March 2022

HIGHWOOD RIVER HAZARD STUDY

Open Water Flood Inundation Map Library

DRAFT

Submitted to:
Alberta Environment and Parks
11th Floor, Oxbridge Place
9820 - 106 Street NW
Edmonton, AB T5K 2J6

Report Number: 1536669_R0003 Rev.0
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Classification: Public

Table of Contents

Open Water Flood Inundation Index Map

2-Year Flood Inundation Extent

5-Year Flood Inundation Extent

10-Year Flood Inundation Extent

20-Year Flood Inundation Extent

35-Year Flood Inundation Extent

50-Year Flood Inundation Extent

75-Year Flood Inundation Extent

100-Year Flood Inundation Extent

200-Year Flood Inundation Extent

350-Year Flood Inundation Extent

500-Year Flood Inundation Extent

750-Year Flood Inundation Extent

1000-Year Flood Inundation Extent

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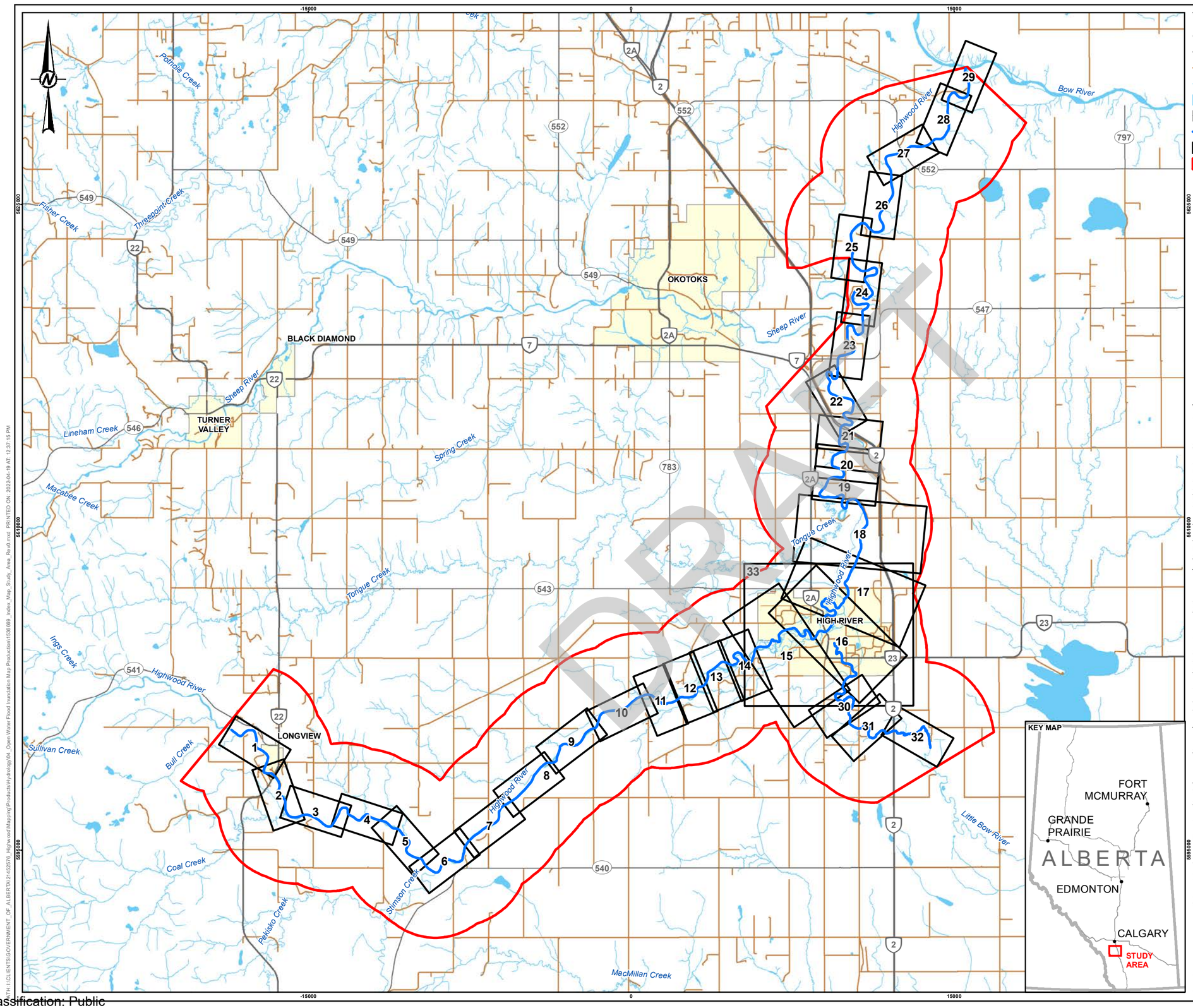
Classification: Public

OPEN WATER FLOOD INUNDATION INDEX MAP

Figure 1

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Classification: Public



LEGEND

- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- LOCAL ROAD
- WATERCOURSE
- WATERBODY
- POPULATED PLACE
- SURVEY REACH
- 1 MAPBOOK EXTENT
- RIVER HAZARD STUDY AREA

0 4 8

1:175,000 METRES

NOTE(S)

1. PLEASE REFER TO THE ACCOMPANYING **HIGHWOOD RIVER HAZARD STUDY -- OPEN WATER FLOOD INUNDATION MAPPING REPORT** FOR IMPORTANT INFORMATION CONCERNING THESE MAPS
2. WITHIN THE FLOOD INUNDATION AREAS SHOW ON THIS MAP, THERE MAY BE ISOLATED POCKETS OF HIGH GROUND. TO DETERMINE WHETHER OR NOT A PARTICULAR SITE IS SUBJECT TO FLOODING, REFERENCE SHOULD BE MADE TO THE COMPUTER FLOOD LEVELS IN CONJUNCTION WITH SITE-SPECIFIC SURVEYS WHERE DETAILED DEFINITION IS REQUIRED.
3. NON-RIVERINE AND LOCAL SOURCES OF WATER HAVE NOT BEEN CONSIDERED, AND STRUCTURES SUCH ROADS, RAILWAYS OR BARRIERS SUCH AS LEVEES CAN RESTRICT WATER FLOW AND AFFECT LOCAL FLOOD LEVELS. CHANNEL OBSTRUCTION, LOCAL STORMWATER INFLOW, GROUNWATER SEEPAGE OR OTHER LAND DRAINAGE CAN CAUSE FLOOD LEVELS TO EXCEED THOSE INDICATED ON THE MAP. LANDS ADJACENT TO A FLOODED AREA MAY BE SUBJECT TO FLOODING FROM TRIBUTARY STREAMS NOT INDICIATED ON THE MAPS.
4. LINE WORK FOR BRIDGES AND FLOOD CONTROL STRUCTURES IS SHOWN ABOVE FLOOD INUNDATION AREAS, EVEN IN CASES WHERE BRIDGES OR FLOOD CONTROL STRUCTURES ARE INUNDATED.

DEFINITIONS:

FLOOD INUNDATION MAPPING - DELINEATES FLOOD INUNDATION AREAS, SHOWING THE EXTENT OF ONE OR MORE FLOOD SCENERIOS UNDER EXISTING CONDITIONS. DEPENDING ON THE PARTICULAR FLOOD SCENERIO, THE MAPPING MAY BE DIVIDED INTO MULTIPLE ZONES. FLOOD INUNDATION MAPPING IS TYPICALLY USED FOR NEAR REAL-TIME EMERGENCY RESPONSE PLANNING AND OPERATIONS

FLOOD INUNDATION AREA - THE AREA INUNDATED DURING A PARTICULAR FLOOD SCENERIO UNDER EXISTING CONDITIONS. THE FLOOD INUNDATION AREA MAY BE DIVIDED INTO MULTIPLE ZONES, INCLUDED AREAS INUNDATED DUE TO POTENTIAL FLOOD CONTROL STRUCTURE FAILURE AND ISOLATED AREAS THAT MAY BECOME INUNDATED DUE TO GROUNDWATER SEEPAGE OR OTHER SUBSURFACE CONNECTIONS. FLOOD INUNDATION AREAS MAY CHANGE AS A RESULT OF FUTURE DEVELOPMETN OR FLOW OBSTRUCTIONS.

FLOOD SCENERIO - FLOW CONDITIONS THAT DESCRIBE A PARTICULAR FLOOD EVENT. FLOOD SCENERIOS TYPICALLY REPRESENT A RANGE OF FLOWS, BASED EITHER ON FLOOD FREQUENCY ANALYSIS OR SET FLOW INTERVALS. THE FLOOD SCENERIOS INCLUDED WITH THIS MAP SET INCLUDED THE 2-YEAR, 5-YEAR, 10-YEAR, 20-YEAR, 35-YEAR, 50-YEAR, 75-YEAR, 100-YEAR, 200-YEAR, 350-YEAR, 500-YEAR, 750-YEAR AND 1000-YEAR FLOOD EVENTS.

REFERENCE(S)

POPULATED PLACES AND HYDROGRAPHY OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2015. ALL RIGHTS RESERVED.
ROADS OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
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KEY MAP

CLIENT
ALBERTA ENVIRONMENT AND PARKS

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
OPEN WATER FLOOD INUNDATION INDEX MAP

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-04-19
DESIGNED	PT
PREPARED	SP
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	1

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2-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

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SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

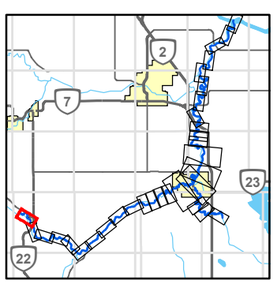
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

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SHEET 1 ↑

SHEET 3 ↓

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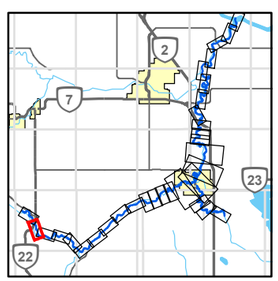
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1:7500 METRES

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TITLE
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PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



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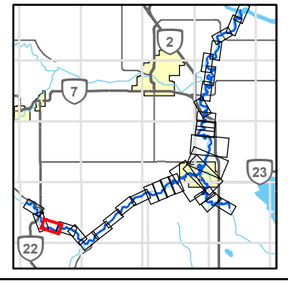
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2-YEAR FLOOD INUNDATION EXTENT

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DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S



0 250 500

1:7500 METRES

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2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

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SHEET 3 ↑

SHEET 5 ↓



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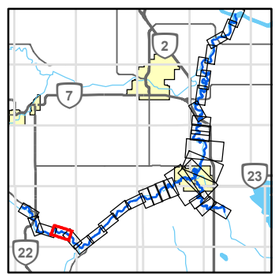
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- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S



0 250 500

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TITLE
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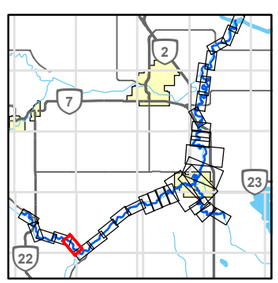
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- CULVERT
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- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S



0 250 500
1:7500 METRES

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SHEET 5 ↑



SHEET 7 ↓

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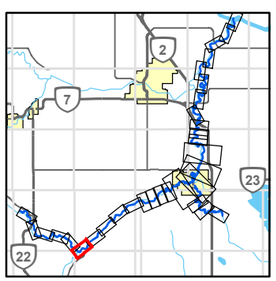
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2-YEAR FLOOD INUNDATION EXTENT

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- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



0 250 500
1:7500 METRES

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PROJECT
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PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



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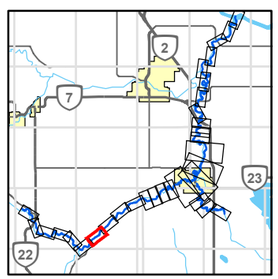
- CULVERT
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2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



0 250 500

1:7500 METRES

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2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



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LEGEND

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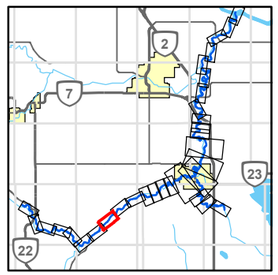
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DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



0 250 500

1:7500 METRES

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2 YEAR INUNDATION EXTENT

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1536669	4000	0	SHEET 8 of 33

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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



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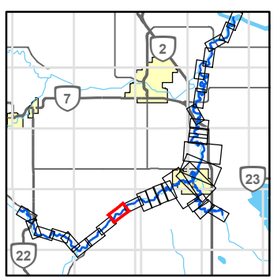
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HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

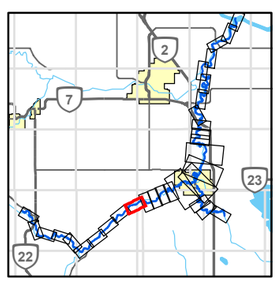
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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25mm

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

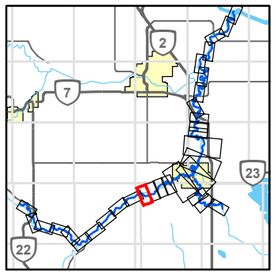
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 43.7 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 74.3 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

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25mm

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Classification: Public

SHEET 13 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

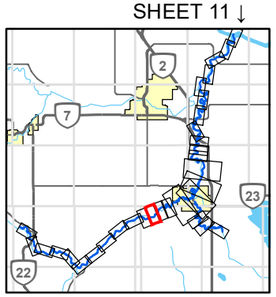
2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S

SHEET 11 ↓



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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25mm

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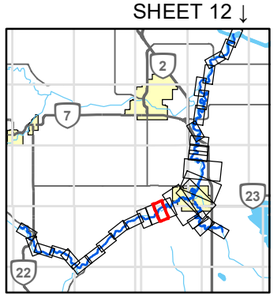
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Classification: Public

SHEET 14 ↑



SHEET 12 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

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Classification: Public

SHEET 15 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

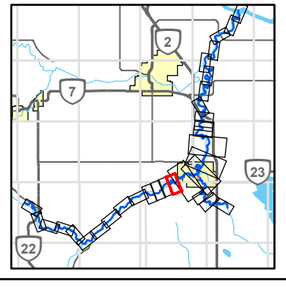
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S

SHEET 13 ↓



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0002-Inundation_Rev0.mxd

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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

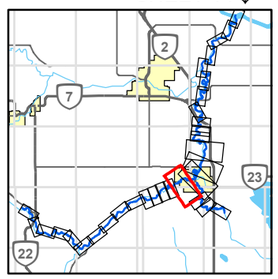
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3



0 250 500

1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 17 ↑

SHEET 30 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

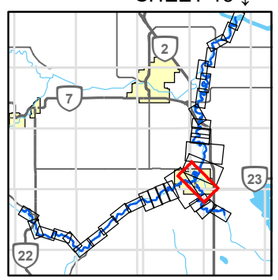
2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

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25mm

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Classification: Public

SHEET 18 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

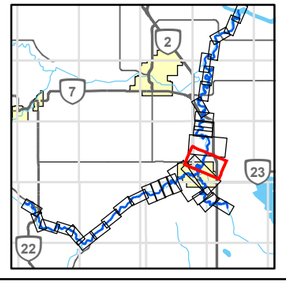
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S



0 250 500
1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 17 of 33

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25mm

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Classification: Public

SHEET 19 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

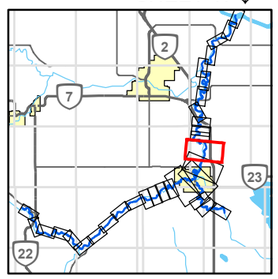
2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S

SHEET 17 ↓



0 250 500

1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

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25mm

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Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

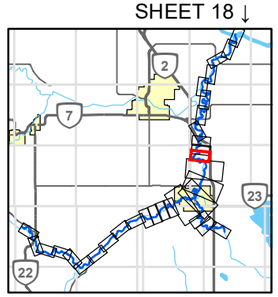
2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

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Classification: Public

SHEET 21 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

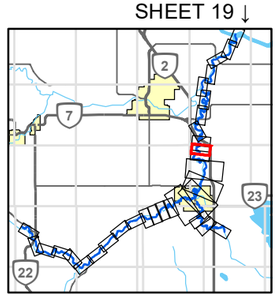
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

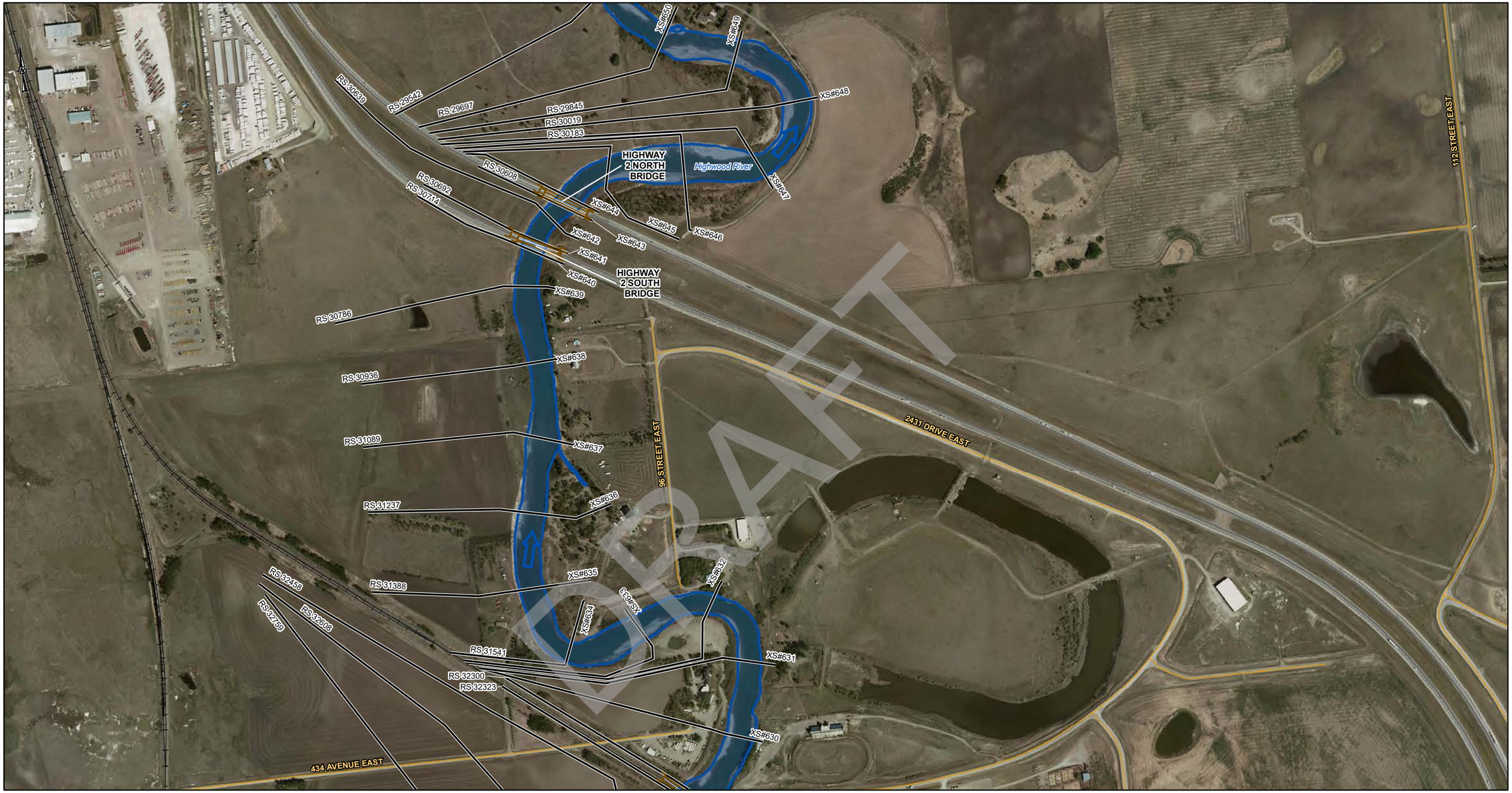
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

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Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

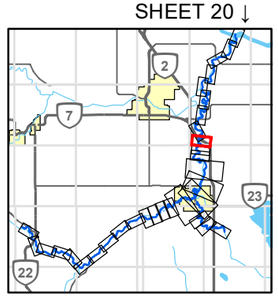
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



SHEET 21 ↑

SHEET 23 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

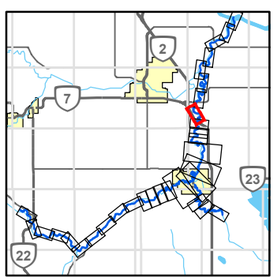
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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Classification: Public



SHEET 22 ↑

SHEET 24 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

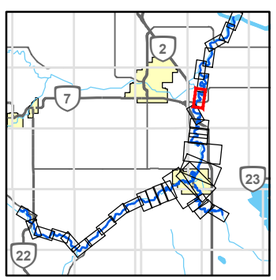
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

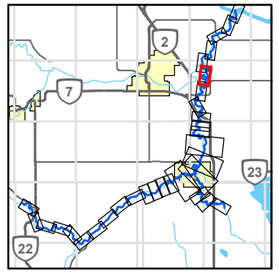
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S



0 250 500

1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0002y-Inundation_Rev0.mxd

Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

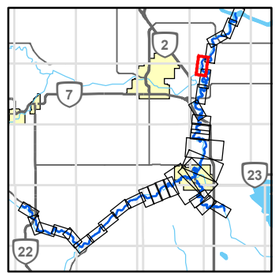
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 117 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 213 M^3/S



0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 25 ↑

SHEET 27 ↓

DRAFT



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

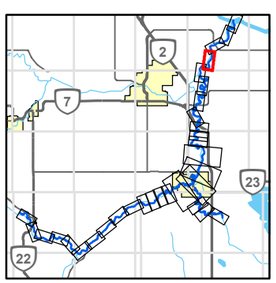
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 213 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

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Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

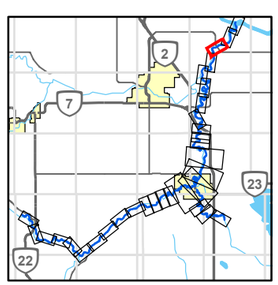
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 213 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

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Classification: Public

SHEET 27 ↑

SHEET 29 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

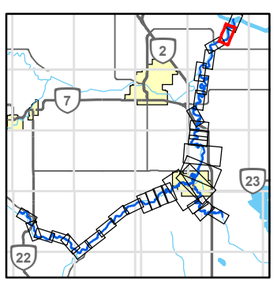
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 213 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PREPARED	NB
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

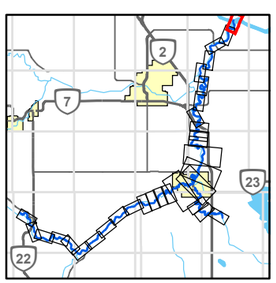
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 213 M^3/S



0 250 500
1:7500 METRES

CLIENT
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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

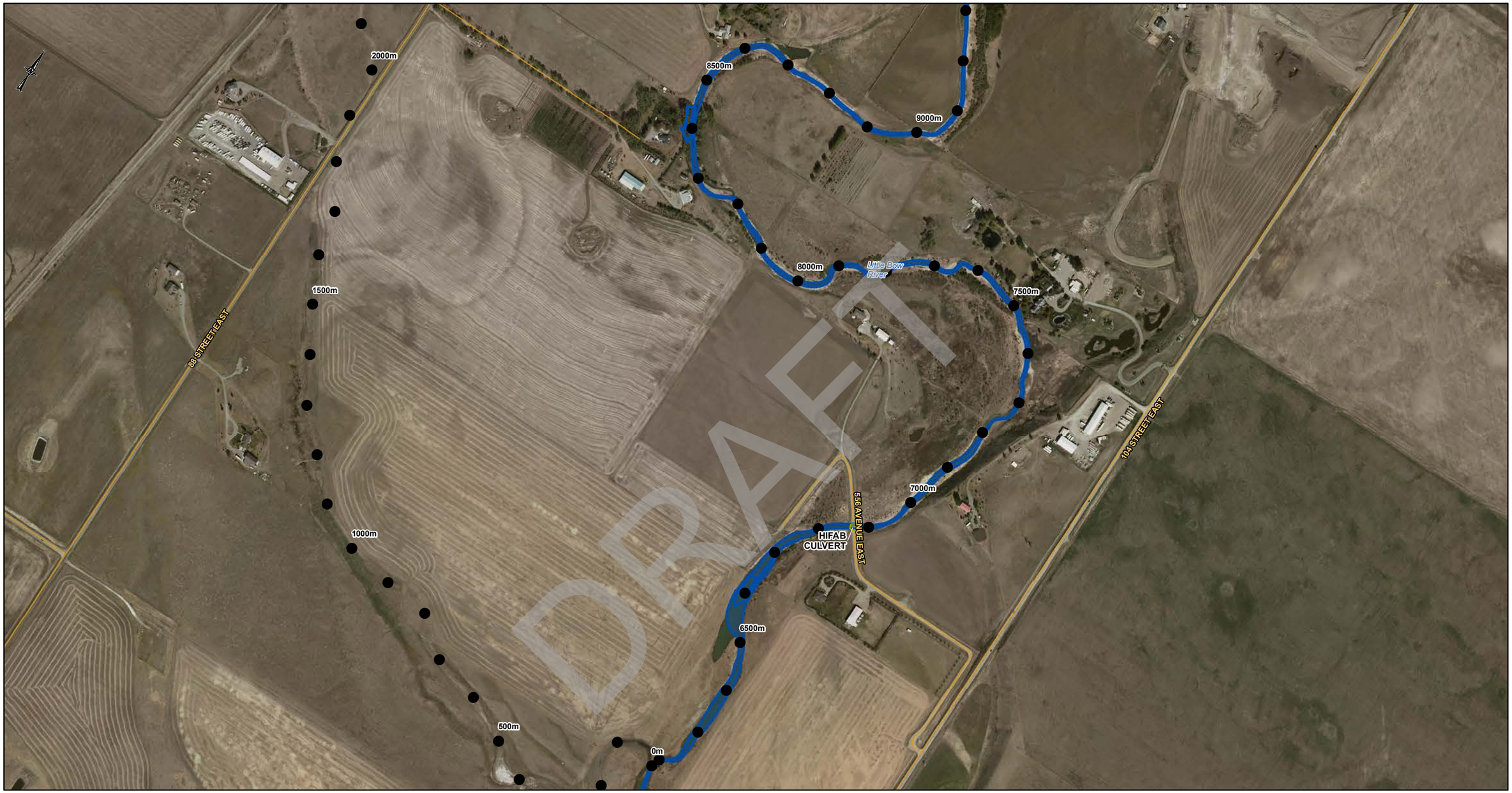
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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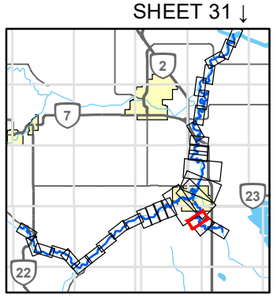
Classification: Public

SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S

0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0002\r-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 30 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

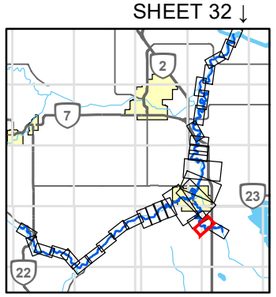
2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

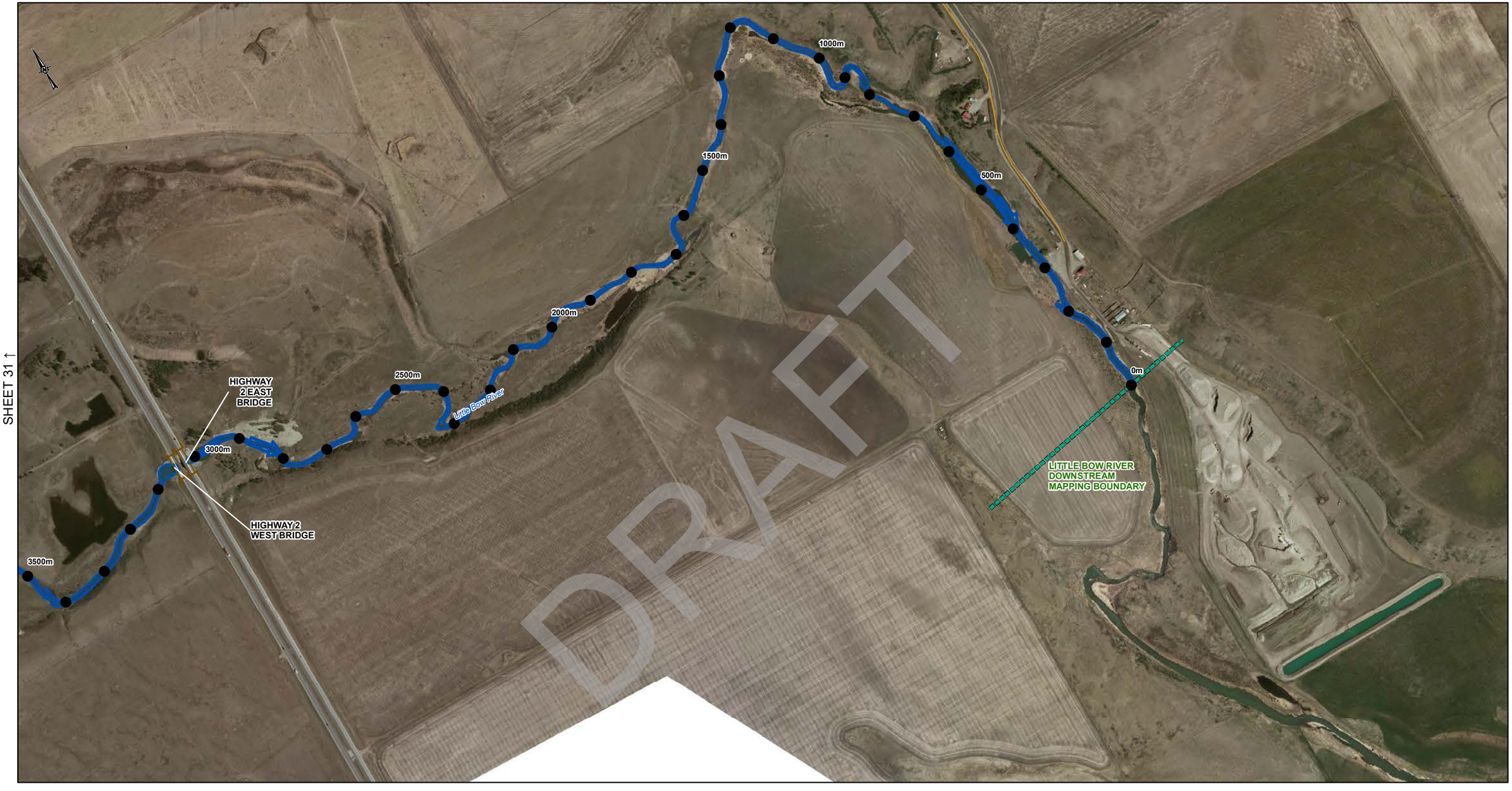
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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

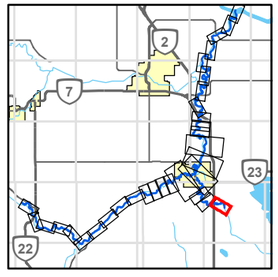
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

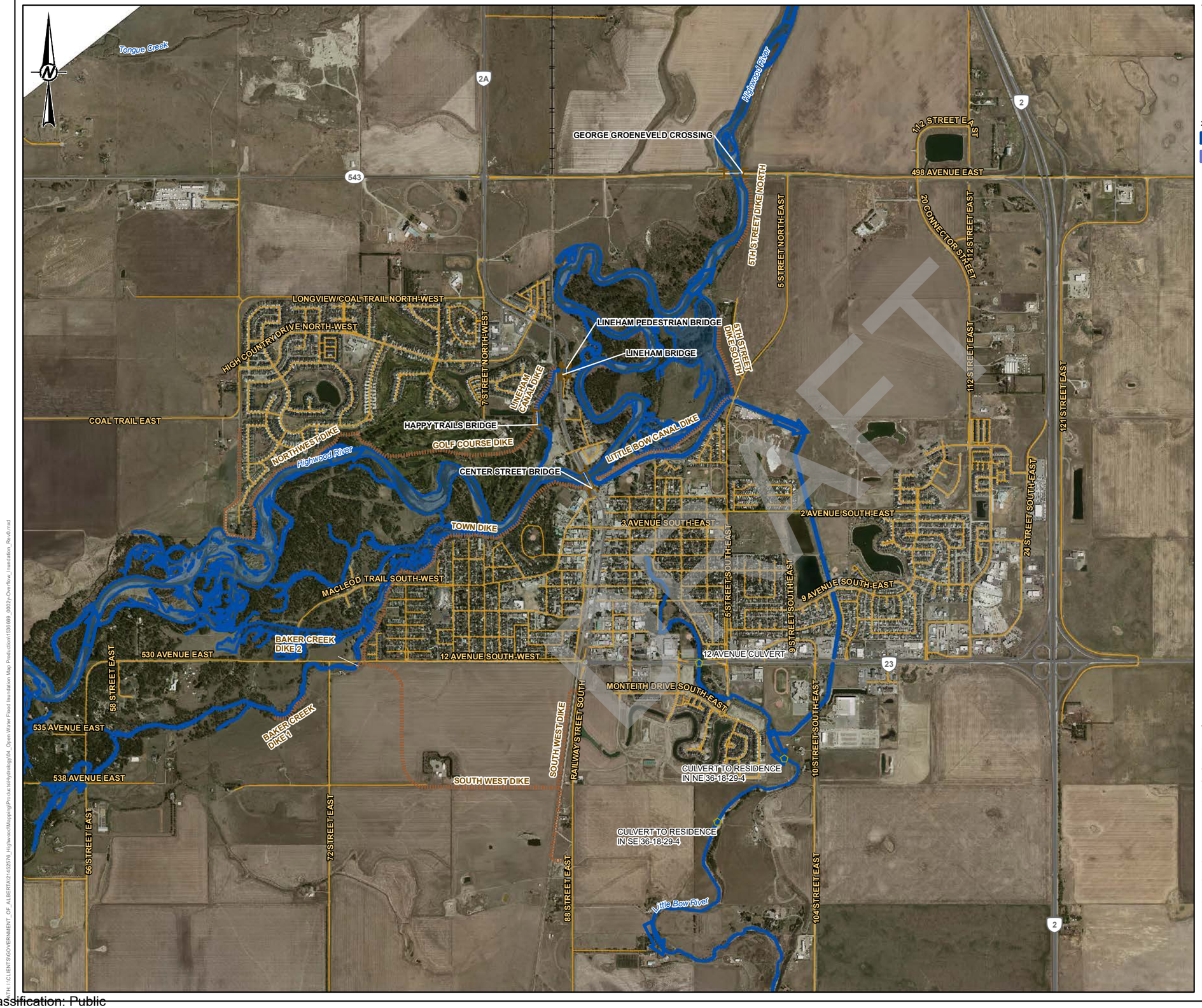
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25mm

0

Classification: Public



LEGEND

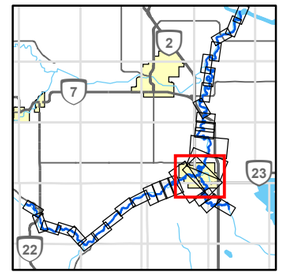
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

- 2-YEAR FLOOD EXTENT
- 2-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
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Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

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25mm 0

Classification: Public

5-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT

Classification: Public



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

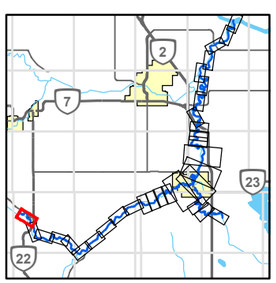
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



SHEET 1 ↑

SHEET 3 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

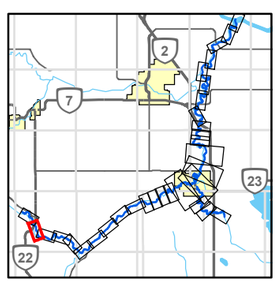
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



SHEET 2 ↑

SHEET 4 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

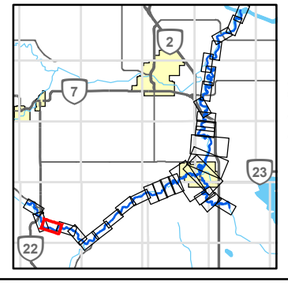
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005-Inundation_Rev0.mxd

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25mm

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Classification: Public

SHEET 3 ↑

SHEET 5 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

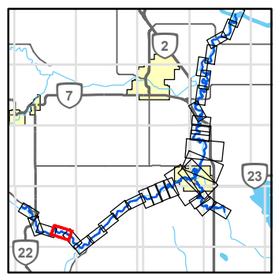
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

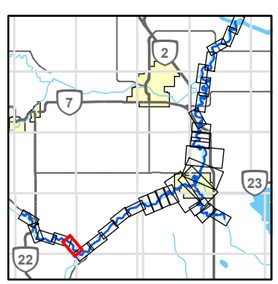
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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Classification: Public

SHEET 5 ↑



SHEET 7 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

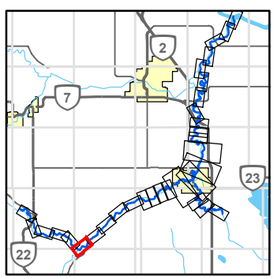
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 165 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

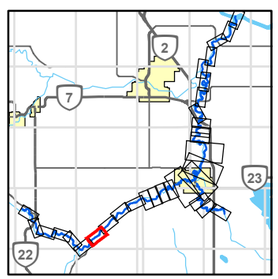
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

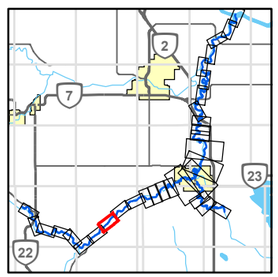
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

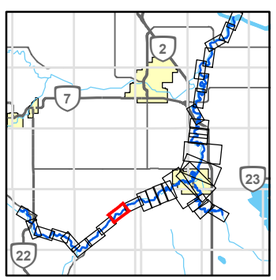
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

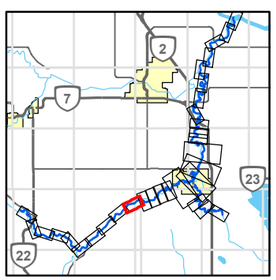
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

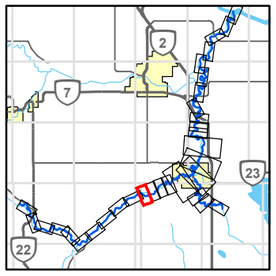
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 85.5 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 146 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

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25mm

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Classification: Public

SHEET 13 ↑



DRAFT

SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

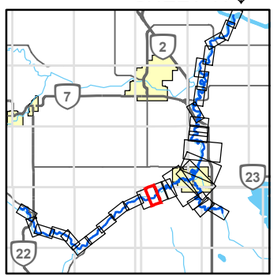
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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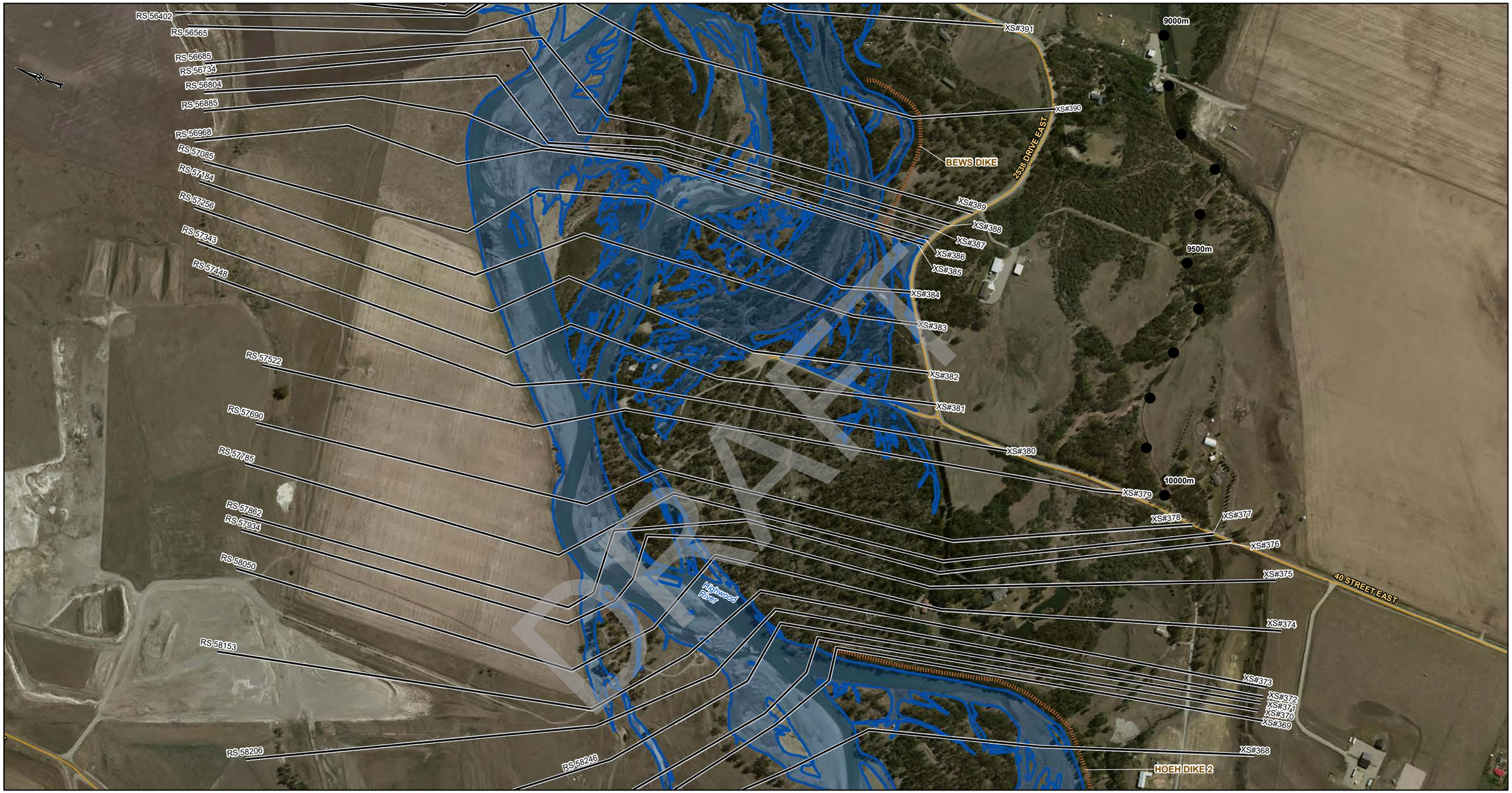
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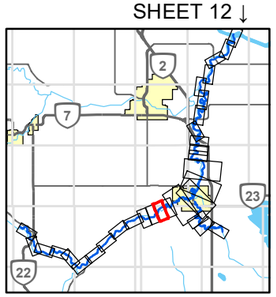
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Classification: Public

SHEET 14 ↑



SHEET 12 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S

0 250 500
1:7500 METRES

REFERENCE(S)

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Alberta Government

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GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

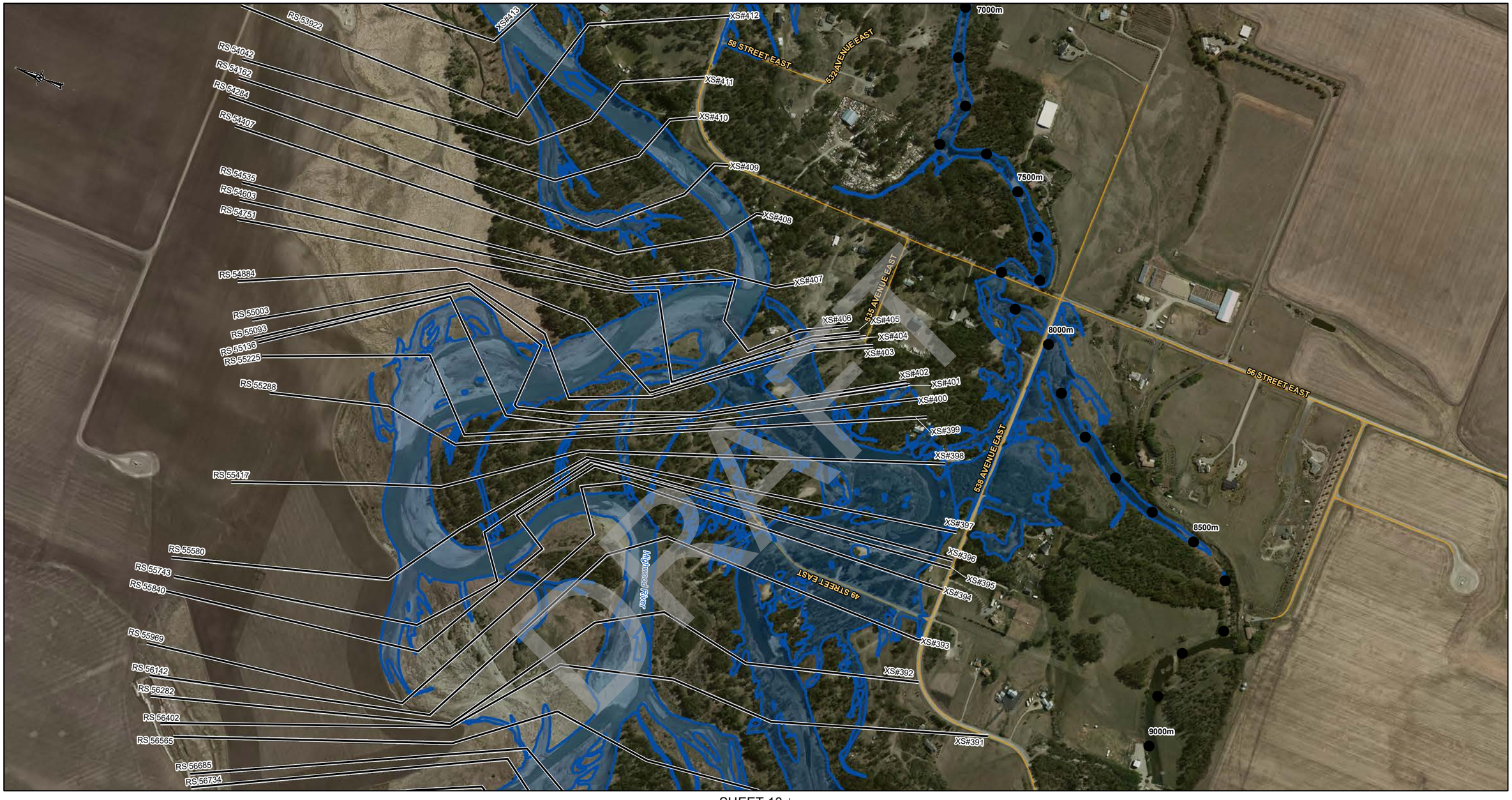
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0

Classification: Public

SHEET 15 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

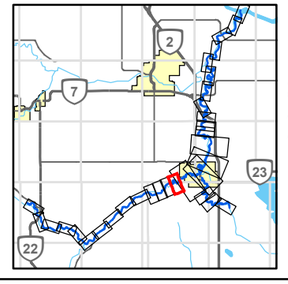
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S

SHEET 13 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

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25mm
0

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SHEET 16 ↑

SHEET 30 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
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- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

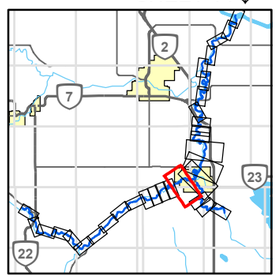
5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S

SHEET 14 ↓



0 250 500

1:15000 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

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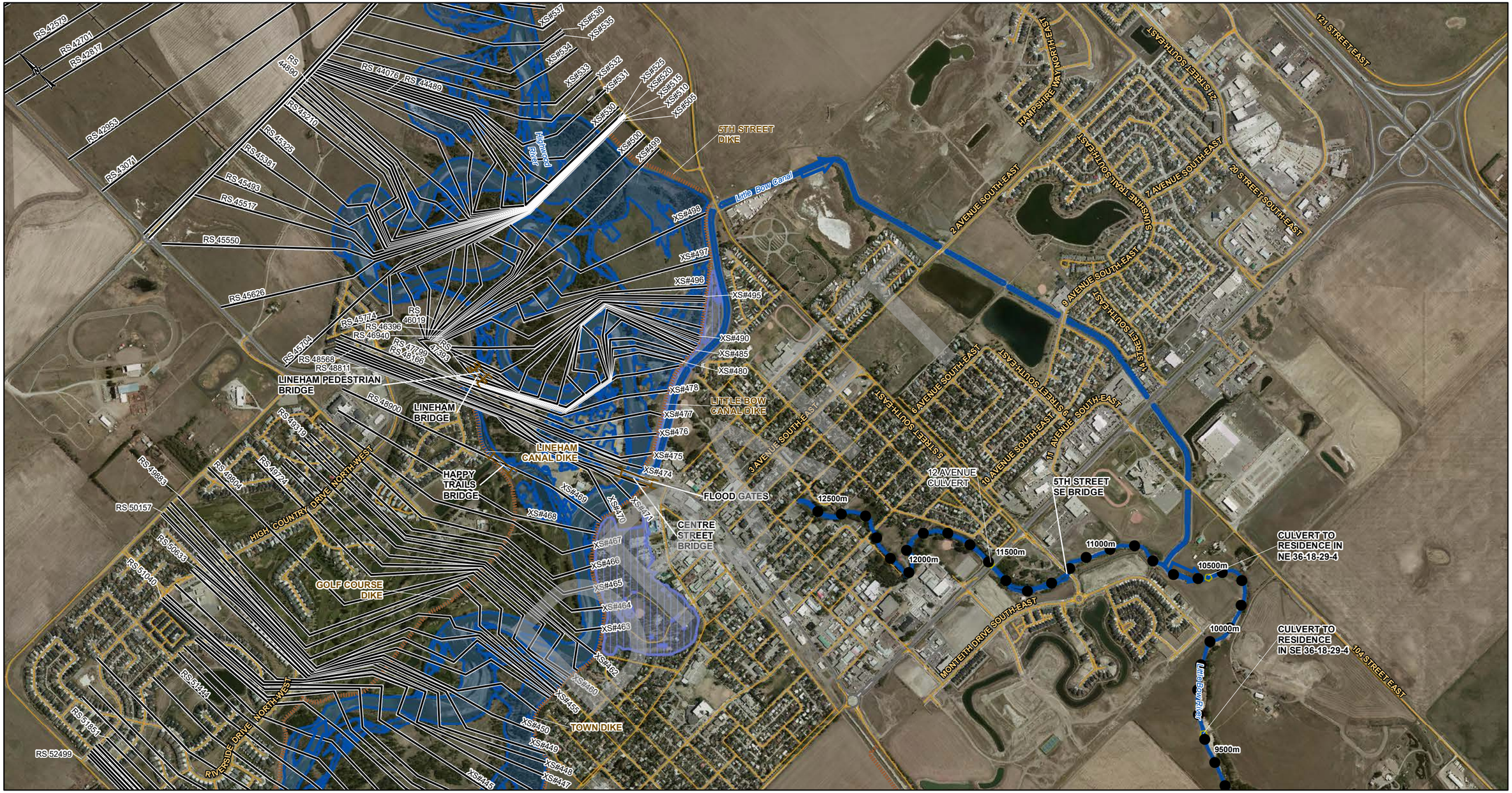
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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

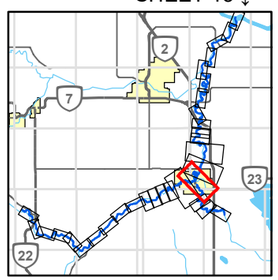
5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 231 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

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25mm

0

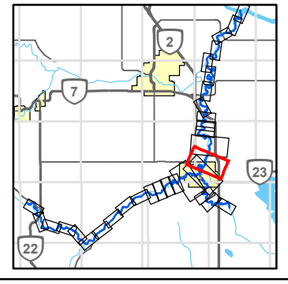
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Classification: Public

SHEET 18 ↑



SHEET 16 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

0 250 500
1:15000 METRES

REFERENCE(S)

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PREPARED	NB
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 17 of 33

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25mm
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Classification: Public

SHEET 19 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

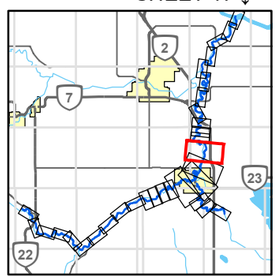
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2005y-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0
Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

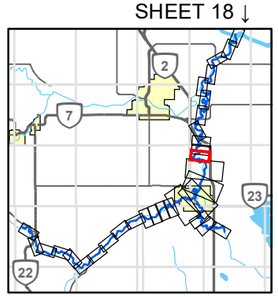
5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005y-Inundation_Rev0.mxd

Classification: Public

SHEET 21 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

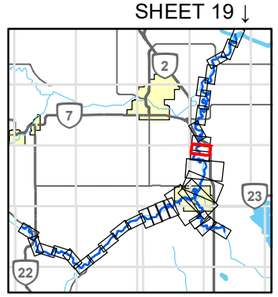
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
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PREPARED	NB
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

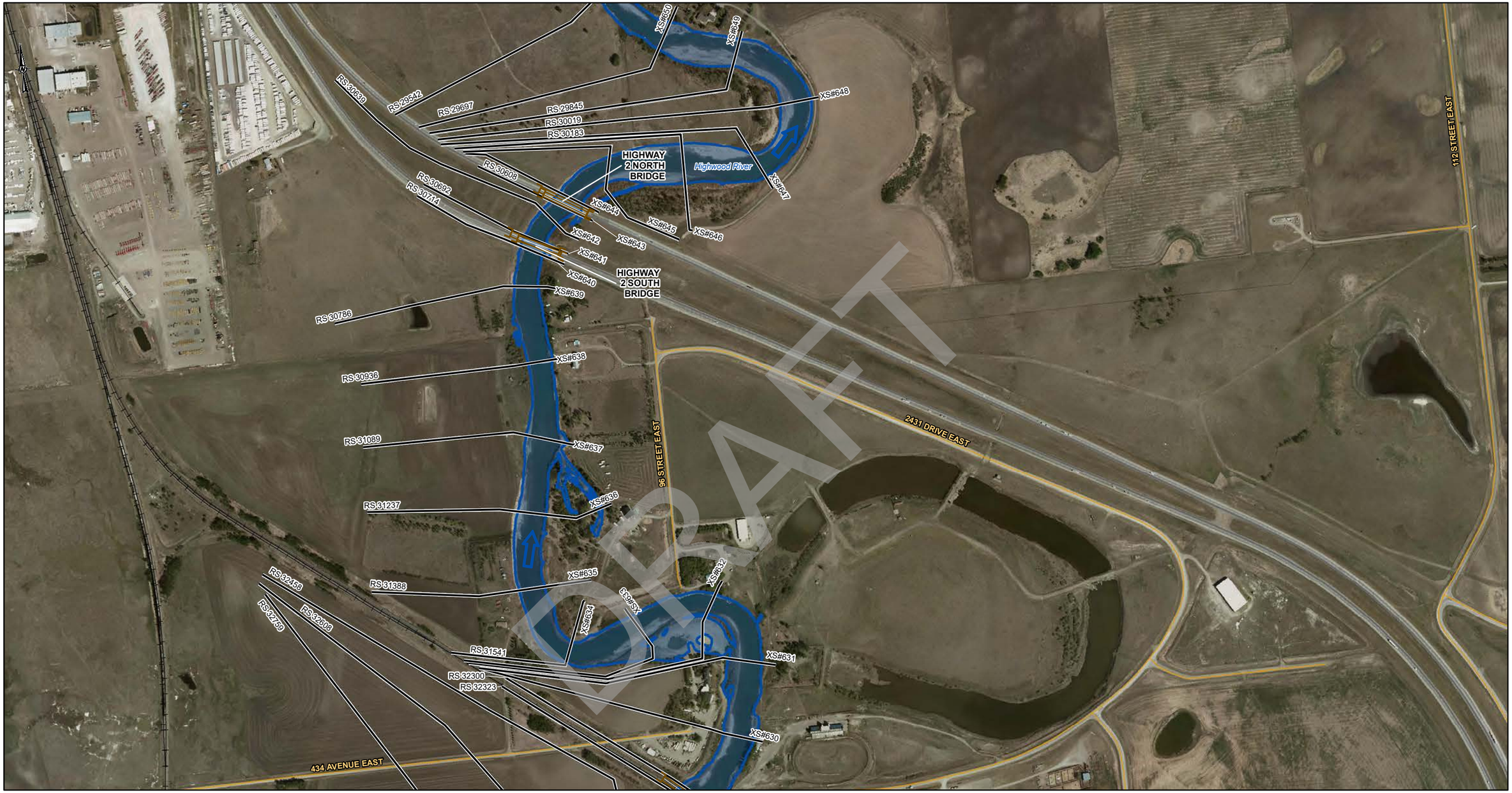
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

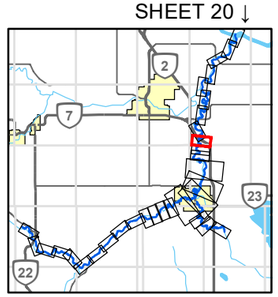
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

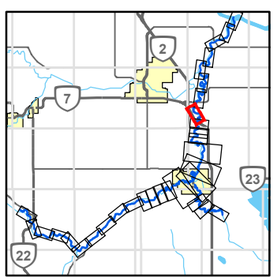
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm 0

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Classification: Public



SHEET 22 ↑

SHEET 24 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

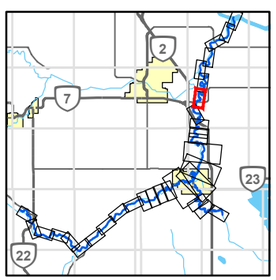
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S



0 250 500

1:7500 METRES

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0005y-Inundation_Rev0.mxd

Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

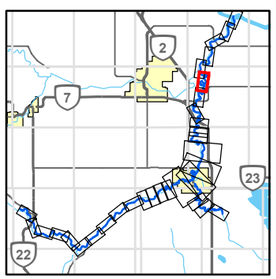
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

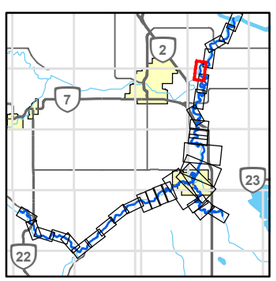
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 216 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 400 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

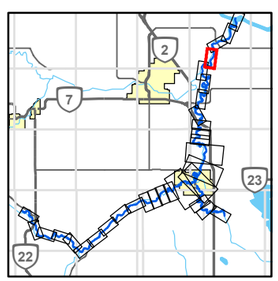
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 400 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0
Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

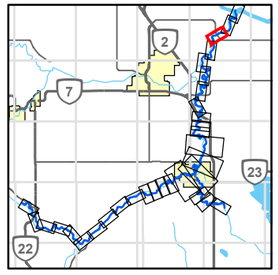
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 400 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

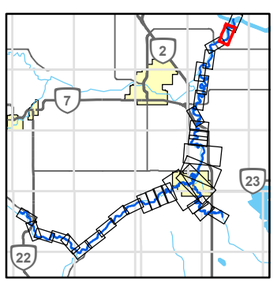
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 400 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 28 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

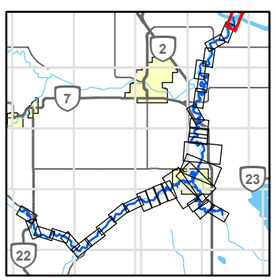
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 400 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

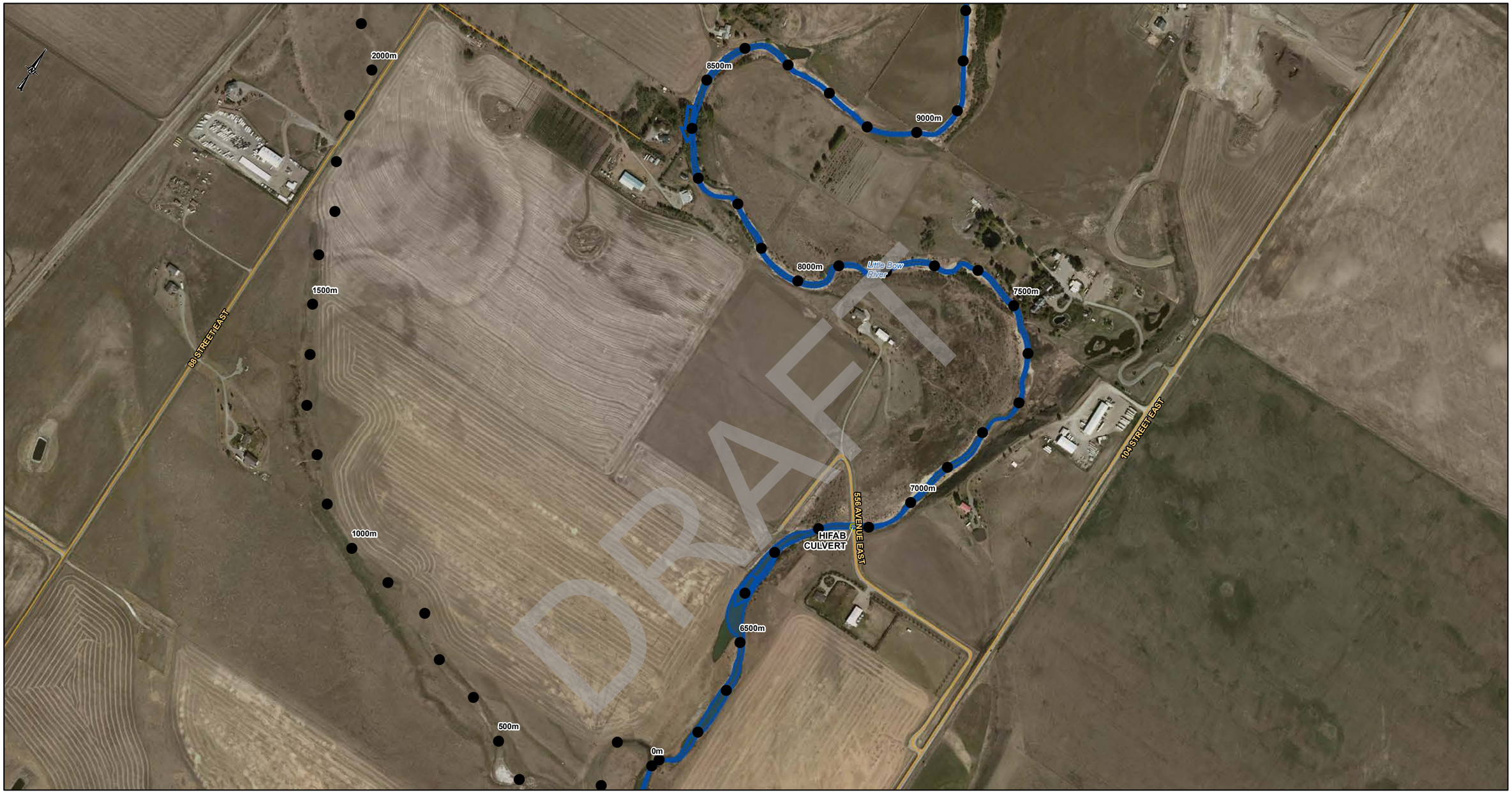
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Classification: Public

SHEET15 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

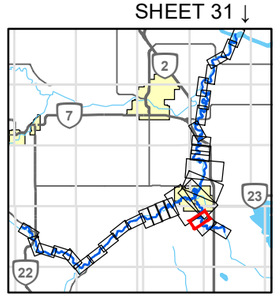
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S

SHEET 31 ↓



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005y-Inundation_Rev0.mxd

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25mm 0

Classification: Public

SHEET 30 ↑



SHEET 32 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

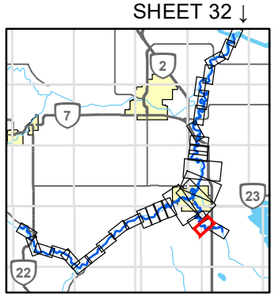
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0005y-Inundation_Rev0.mxd

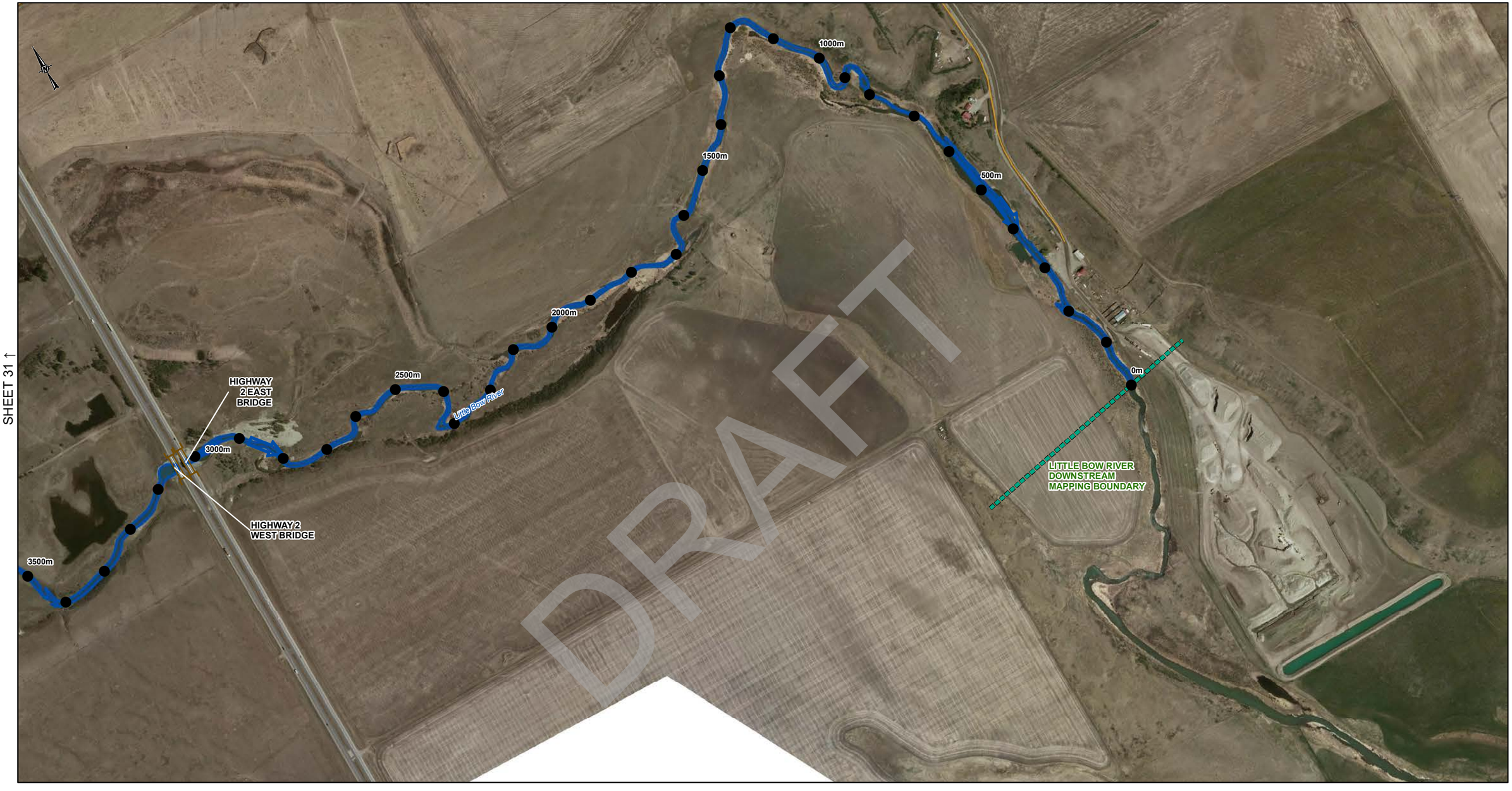
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25mm

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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

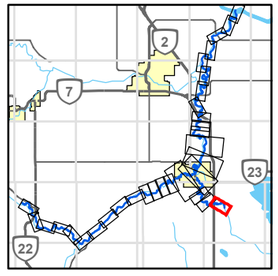
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 0.1 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

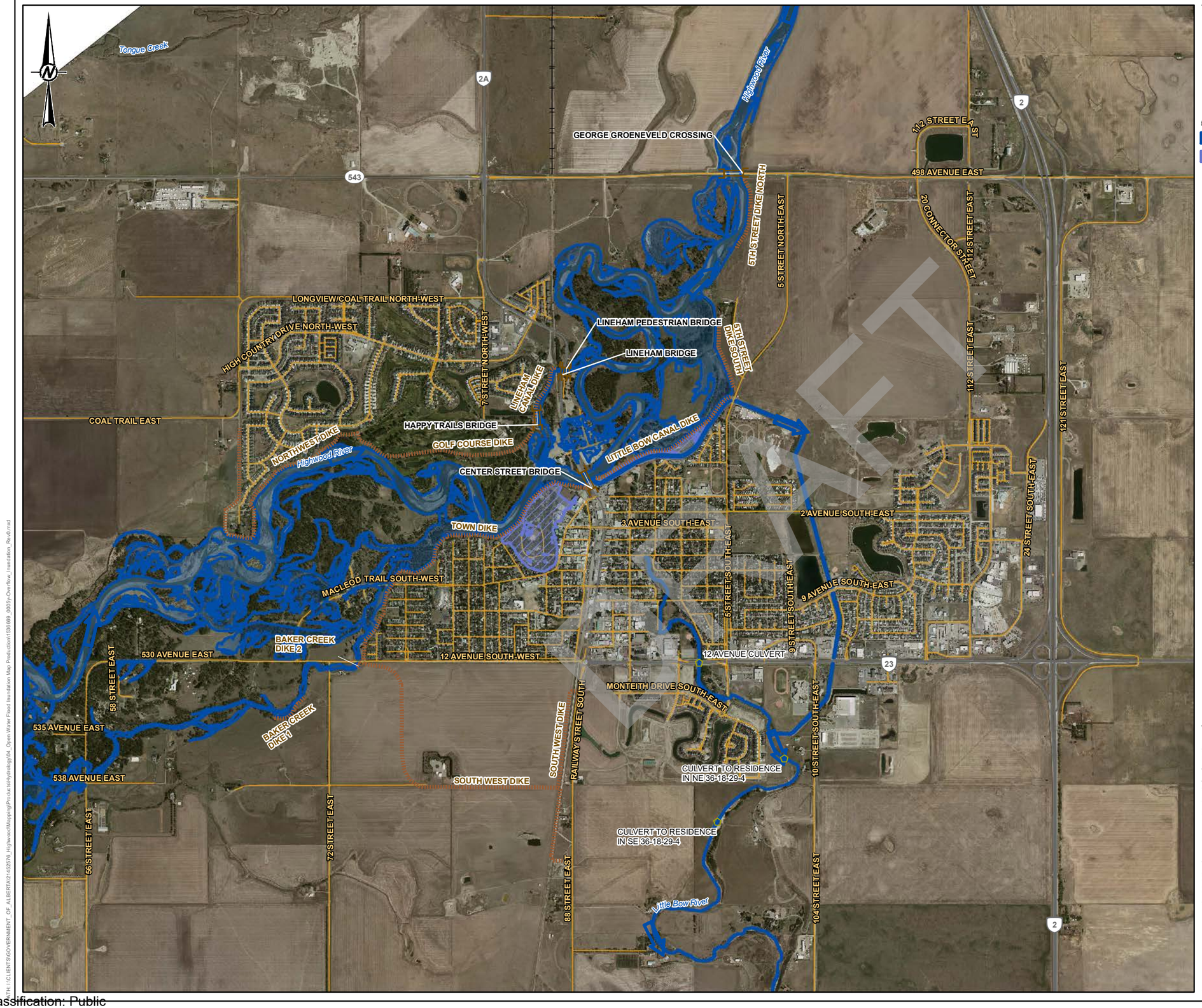
TITLE
5 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005y-Inundation_Rev0.mxd

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Classification: Public



LEGEND

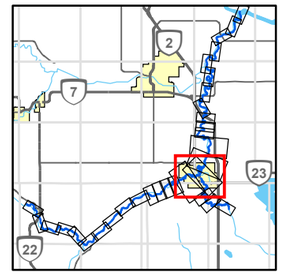
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

- 5-YEAR FLOOD EXTENT
- 5-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

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Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
5 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0005y-Overflow_Inundation_Rev0.mxd

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25mm

0

Classification: Public

10-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT

Classification: Public



DRAFT

SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

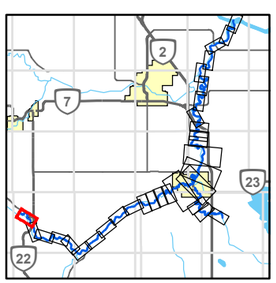
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

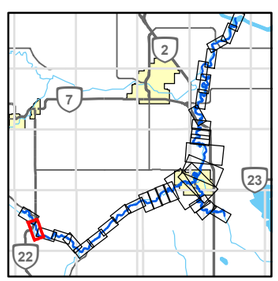
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓

144 STREET WEST

Highwood River

RS 87743
RS 87661
RS 87494
RS 87406
RS 87362
RS 87282
RS 87241
RS 87171
RS 87145
RS 87059
RS 86930
RS 86863
RS 86764
RS 86699
RS 86556
RS 86441
RS 86332
RS 86229
RS 86151
RS 86051
RS 85946
RS 85866
RS 85807
RS 85706
RS 85606
RS 85501
RS 85390
RS 85321
RS 85175
RS 85061
RS 84963
RS 84862
RS 84785
RS 84709
RS 84576
RS 84513
RS 84431
RS 84350
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RS 84201
RS 84124
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RS 83924
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RS 83731
RS 83645
RS 83564
RS 83479
RS 83376

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XS#122

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

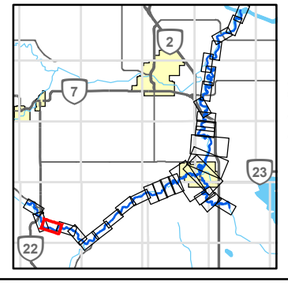
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

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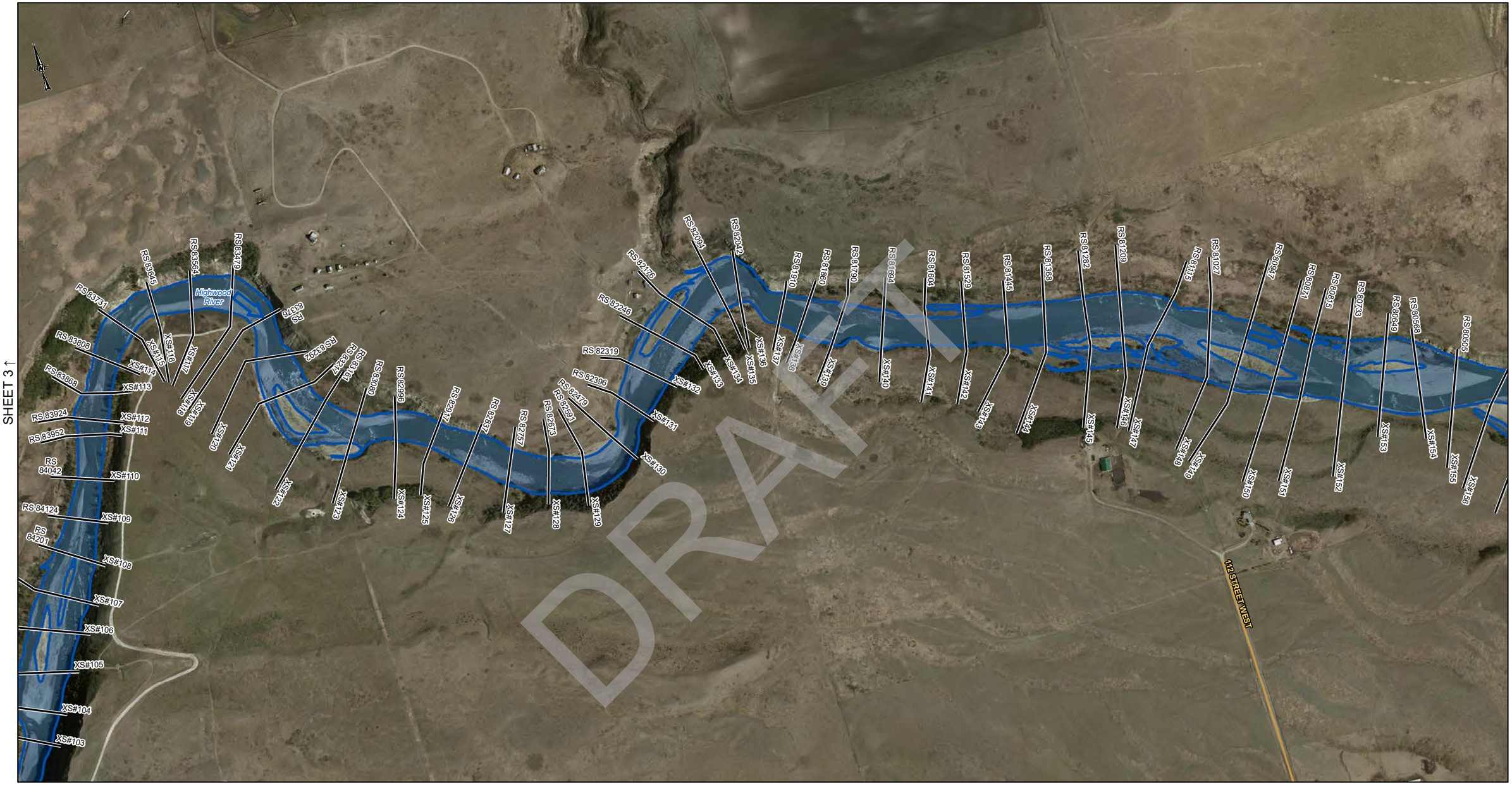
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Classification: Public

SHEET 3 ↑

SHEET 5 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

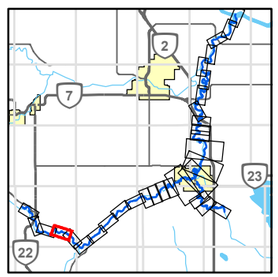
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

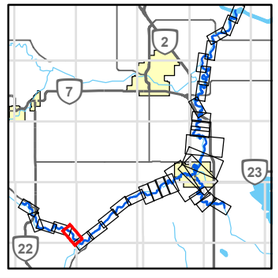
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21462576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

Classification: Public

SHEET 5 ↑



SHEET 7 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

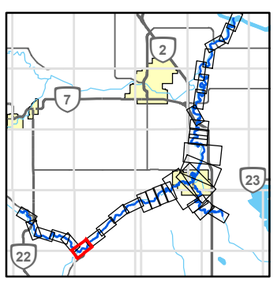
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 251 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓

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64 STREET WEST

610 AVENUE WEST

Highwood River

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

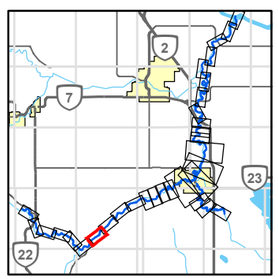
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

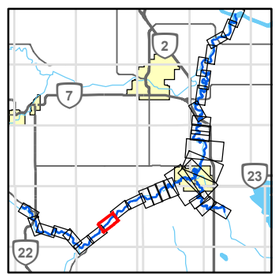
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

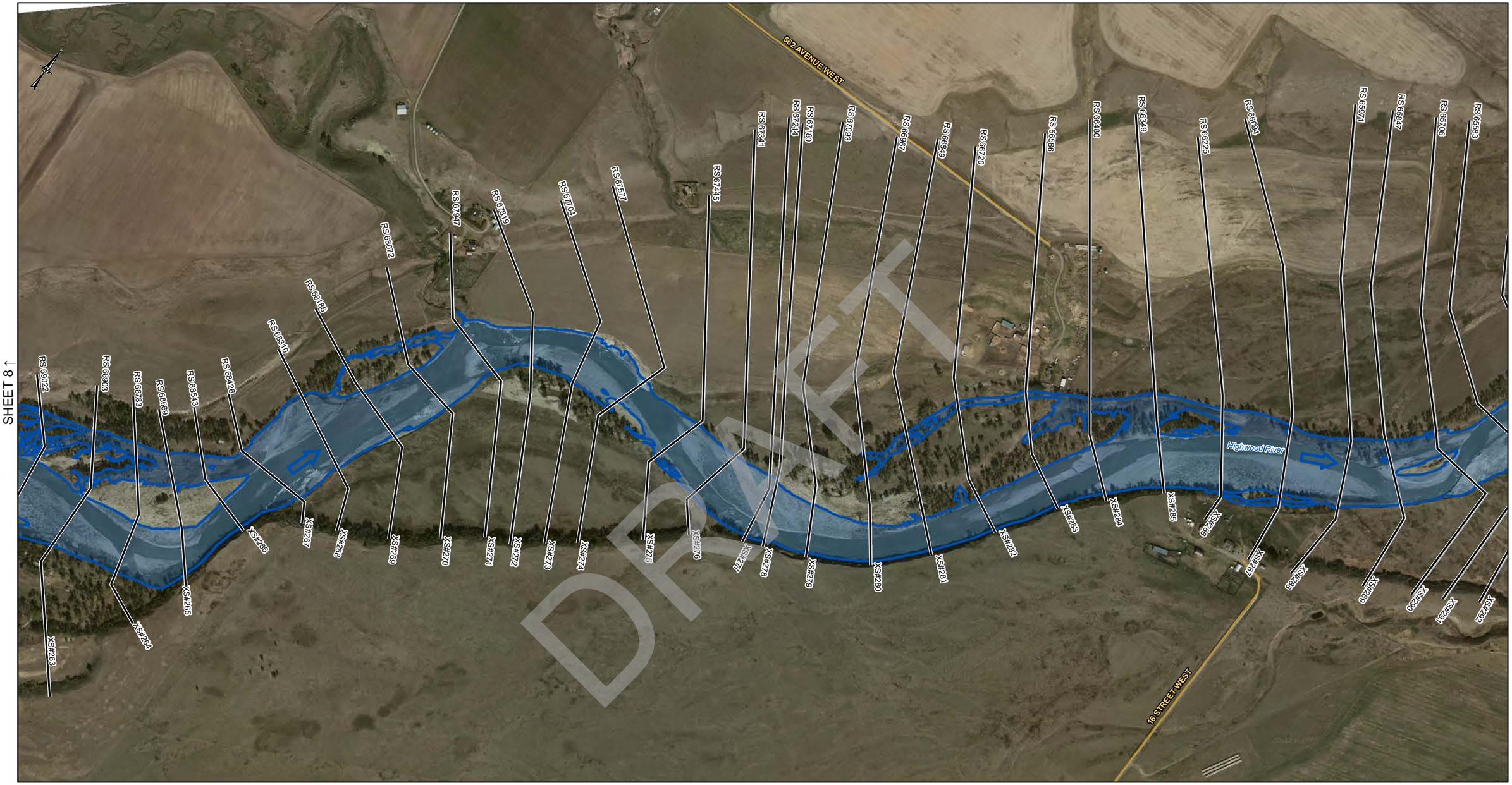
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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

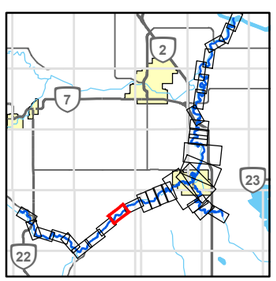
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

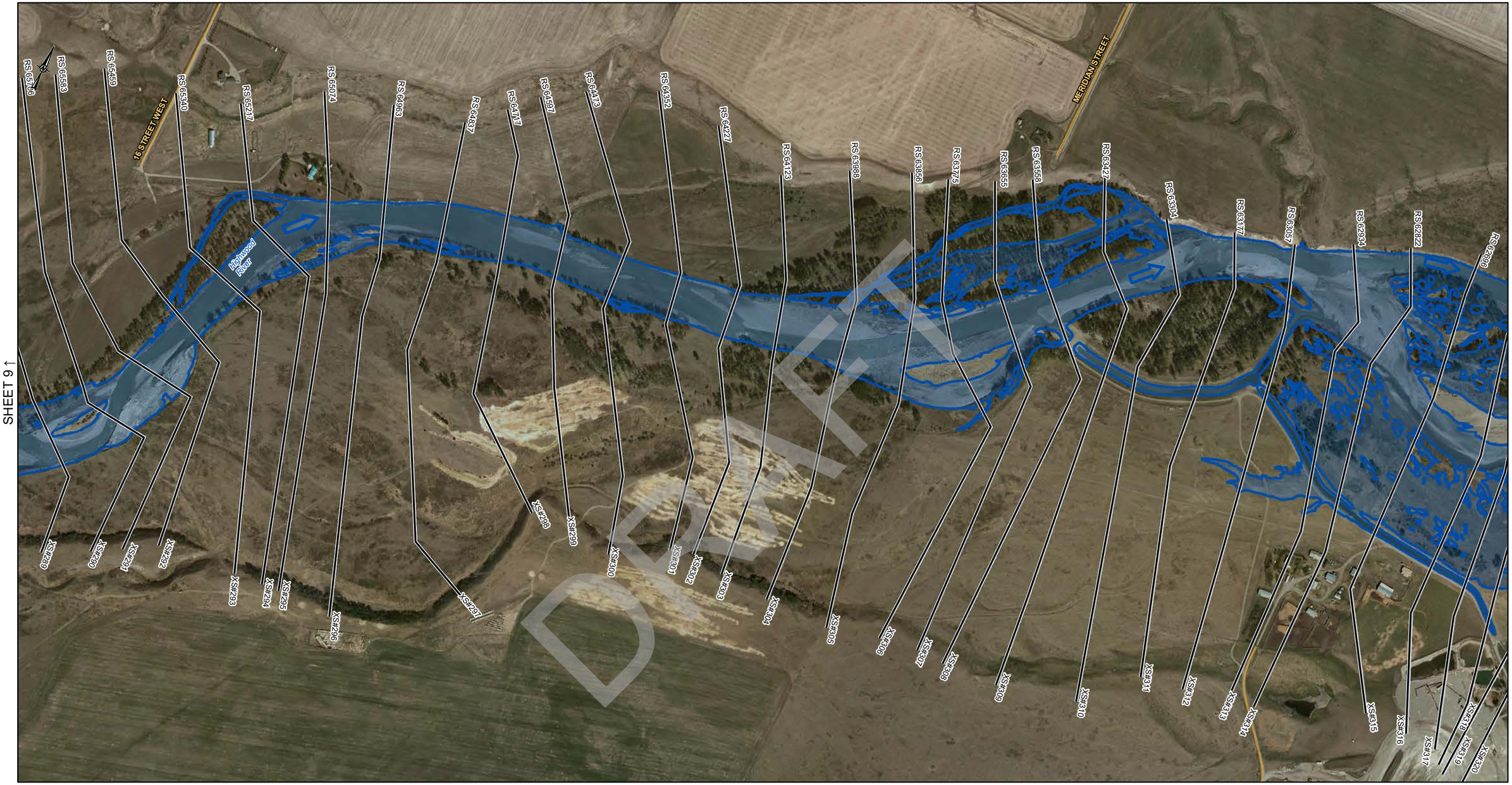
TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0610r-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

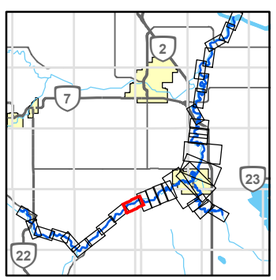
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

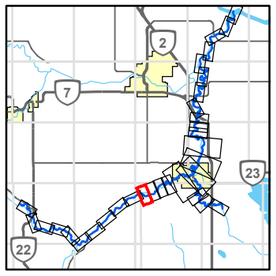
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 127 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 215 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

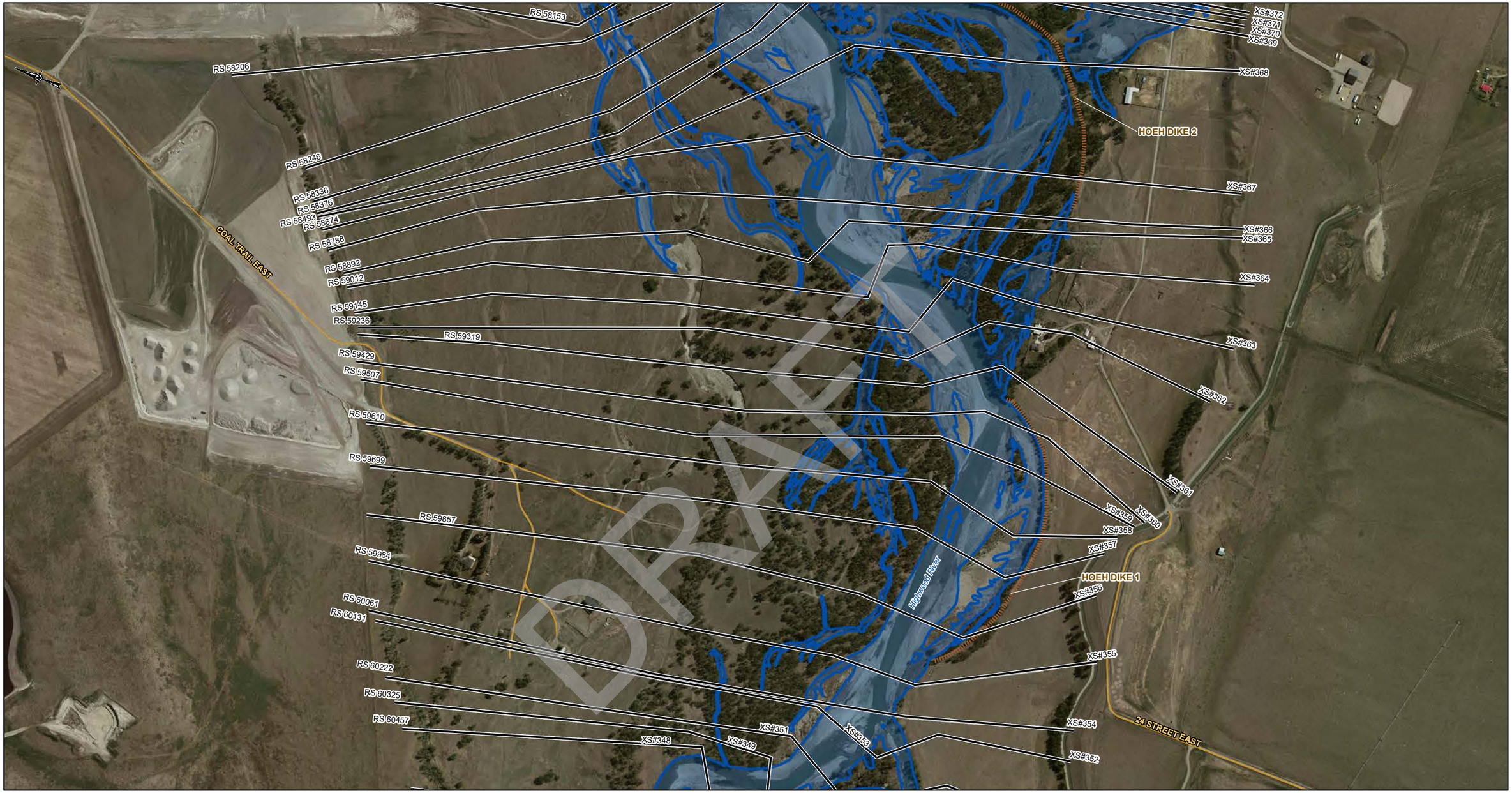
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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Classification: Public

SHEET 13 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

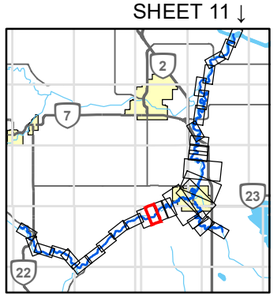
10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S

SHEET 11 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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Classification: Public

SHEET 14 ↑



SHEET 12 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

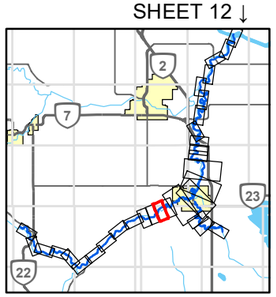
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

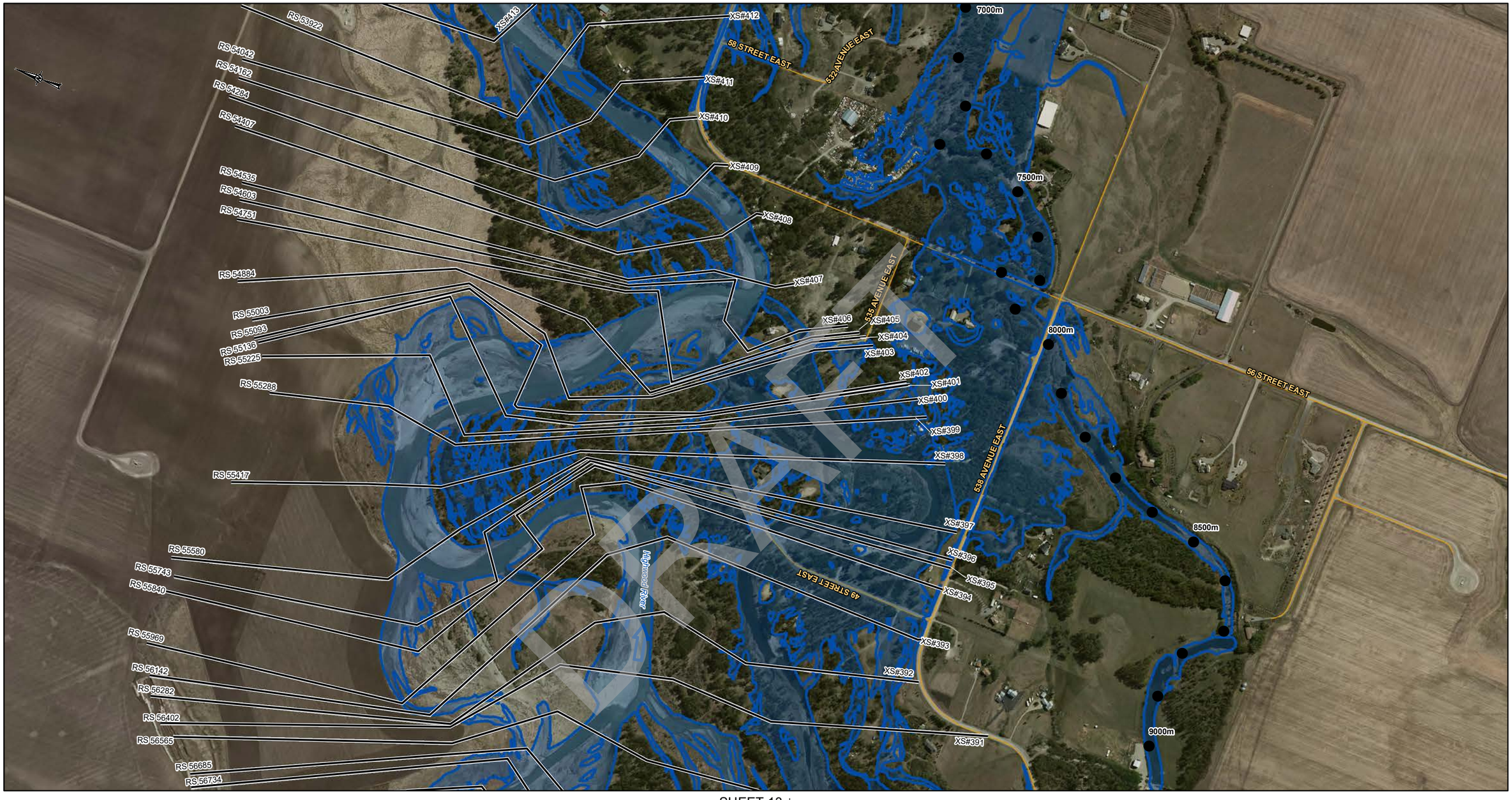
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

Classification: Public

SHEET 15 ↑



SHEET 13 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

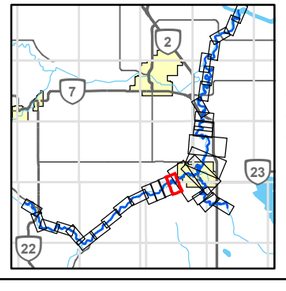
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

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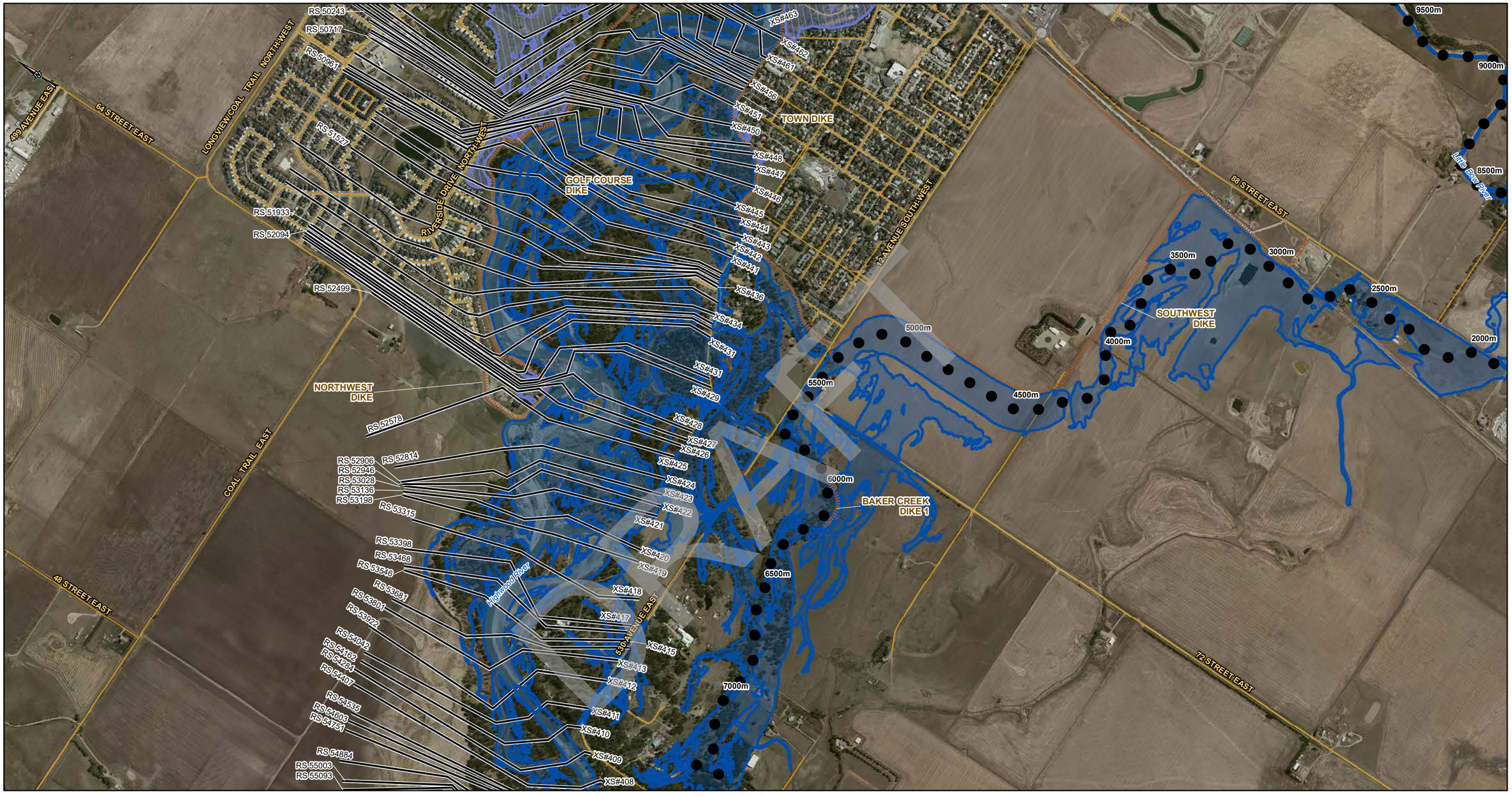
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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
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- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

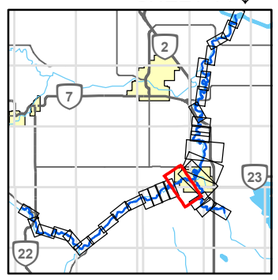
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

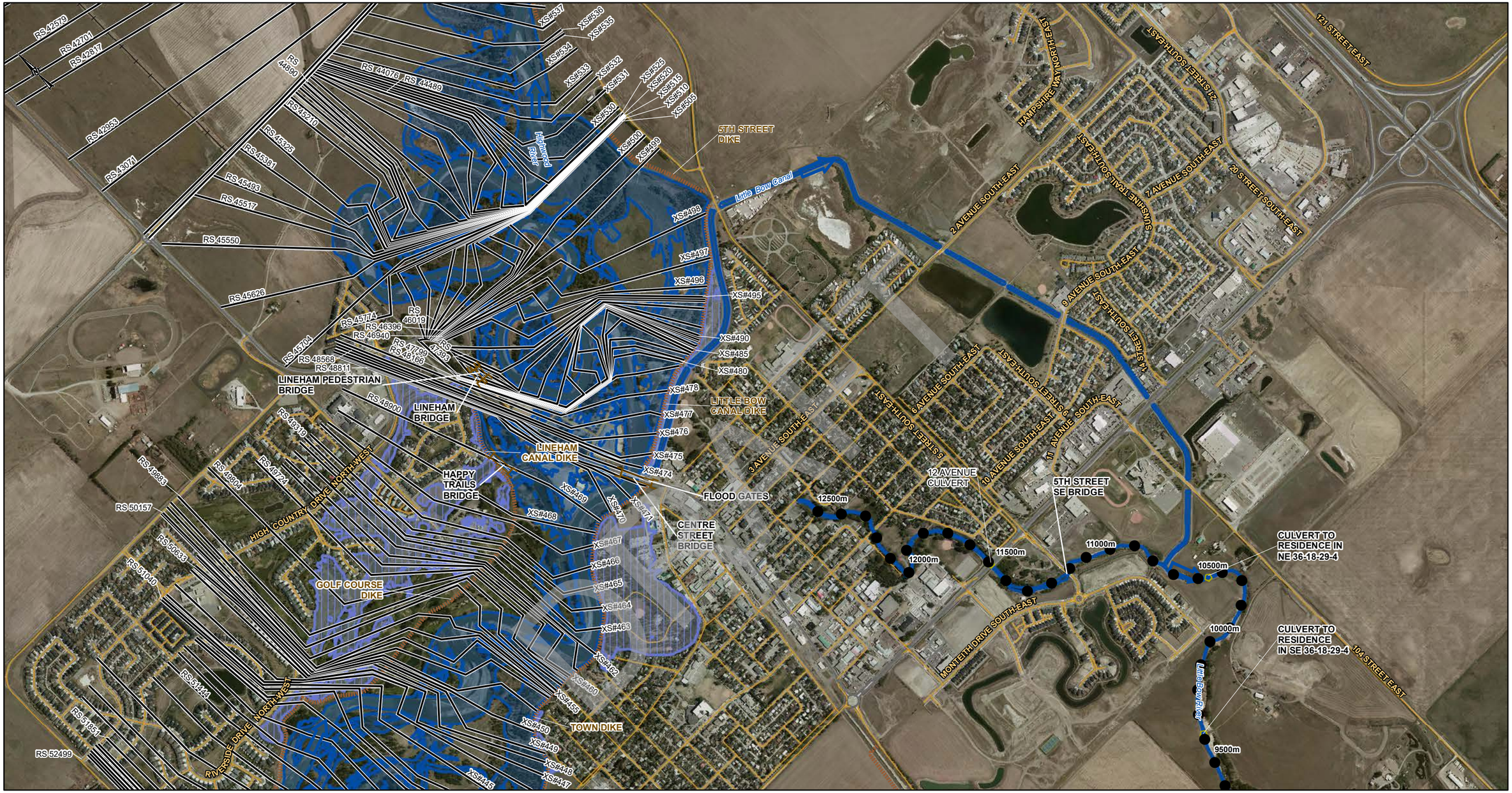
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DRAFT

Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

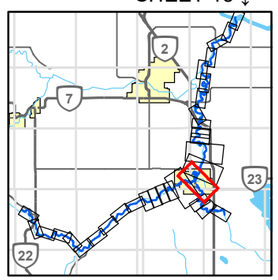
10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 342 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010-Inundation_Rev0.mxd

Classification: Public

SHEET 18 ↑


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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

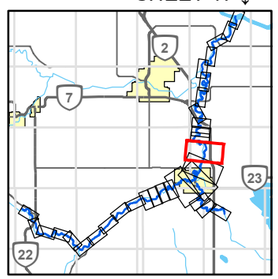
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

REFERENCE(S)
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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2019y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

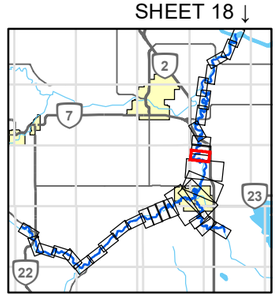
10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 21 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

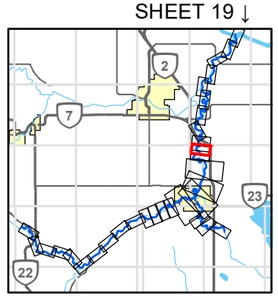
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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GOLDER
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YYYY-MM-DD	2022-03-31
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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

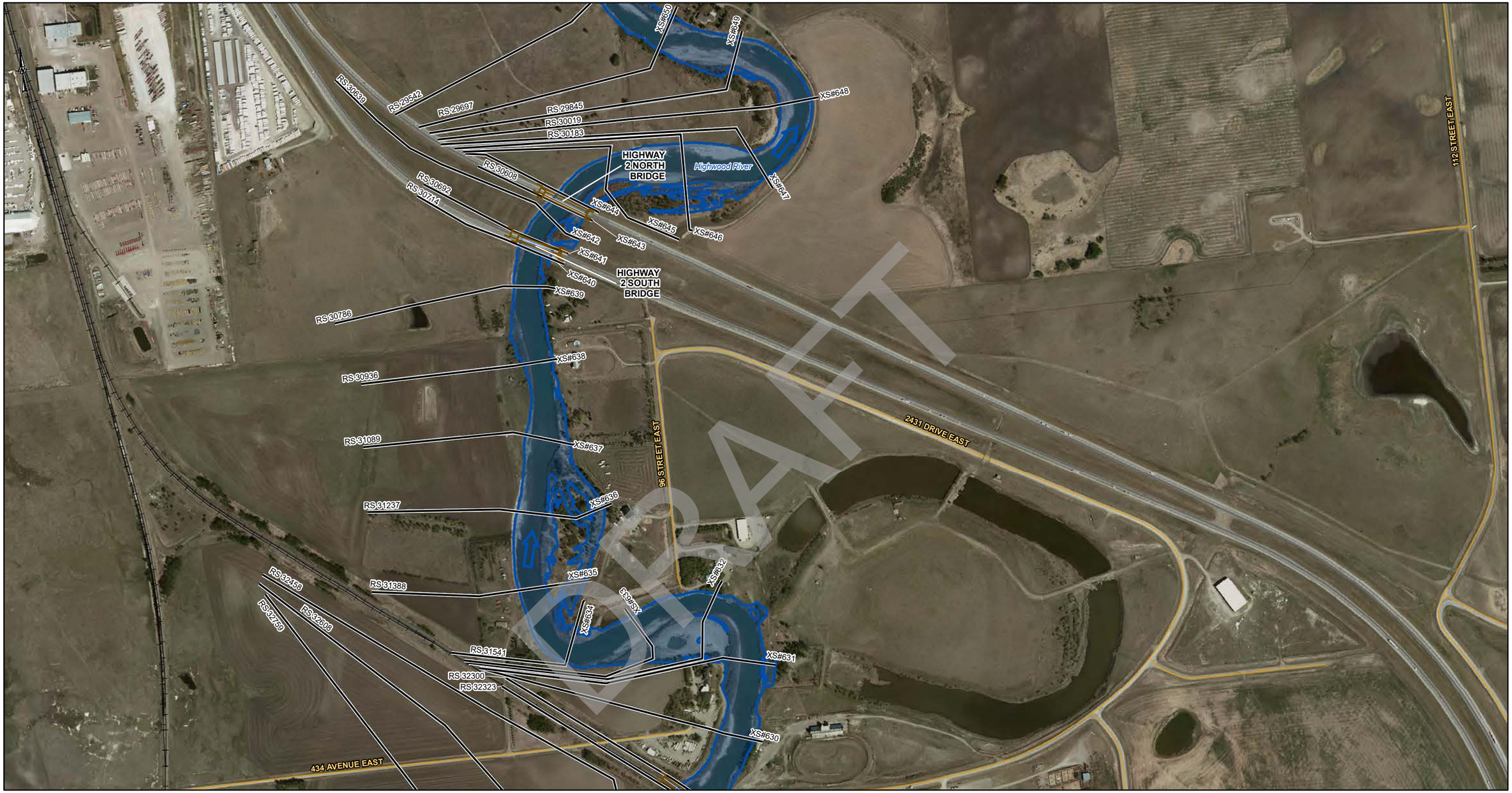
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 22 ↑



SHEET 20 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

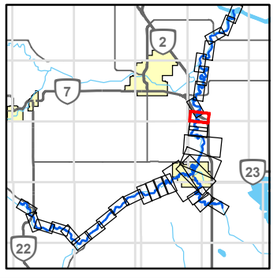
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S



0 250 500
1:7500 METRES

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GOLDER
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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

DRAFT

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25mm
0

Classification: Public



SHEET 21 ↑

SHEET 23 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

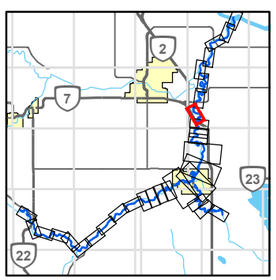
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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Classification: Public



SHEET 22 ↑

SHEET 24 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

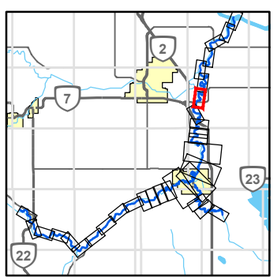
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

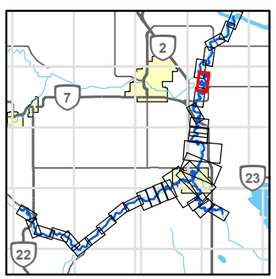
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

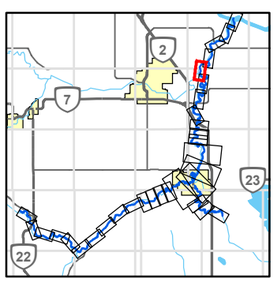
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 302 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 575 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

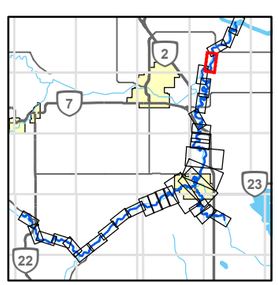
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 575 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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CONSULTANT
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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

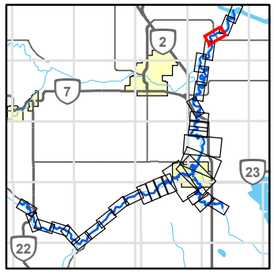
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 575 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

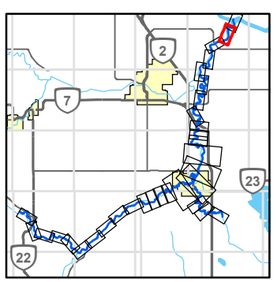
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 575 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

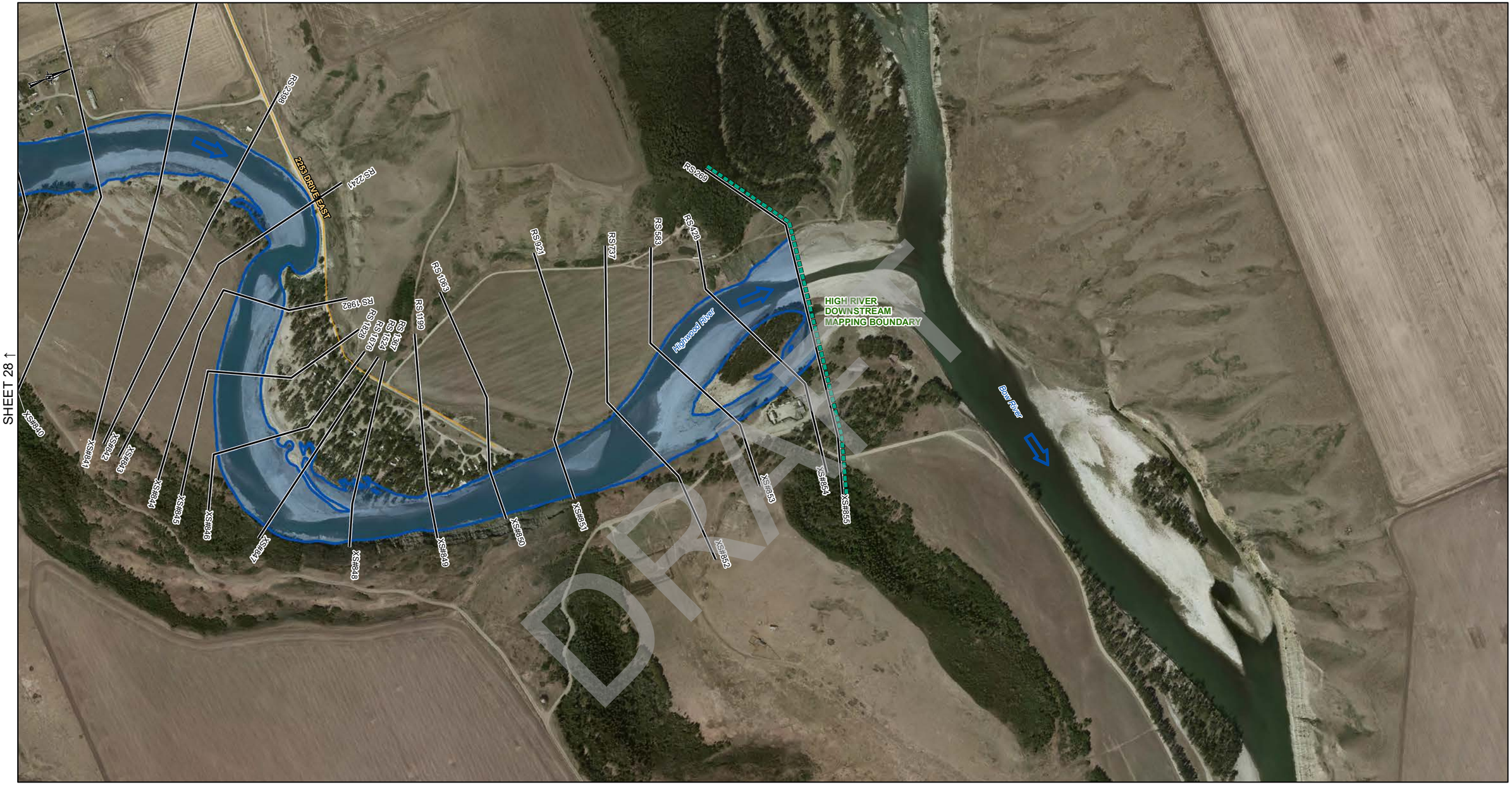
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25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

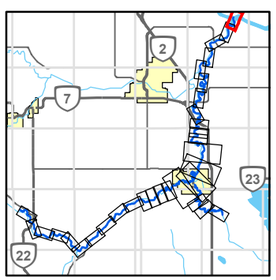
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 575 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

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25mm

0

Classification: Public

SHEET15 ↑

SHEET 16 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

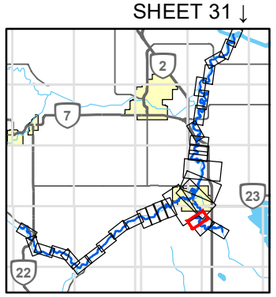
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 10 M^3/S

SHEET 31 ↓



0 250 500
1:7500 METRES

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Alberta Government

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GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

SHEET 30 ↑



SHEET 32 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

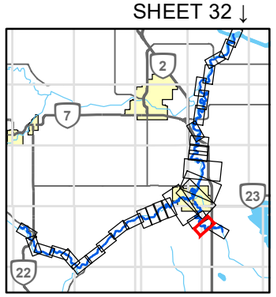
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 10 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

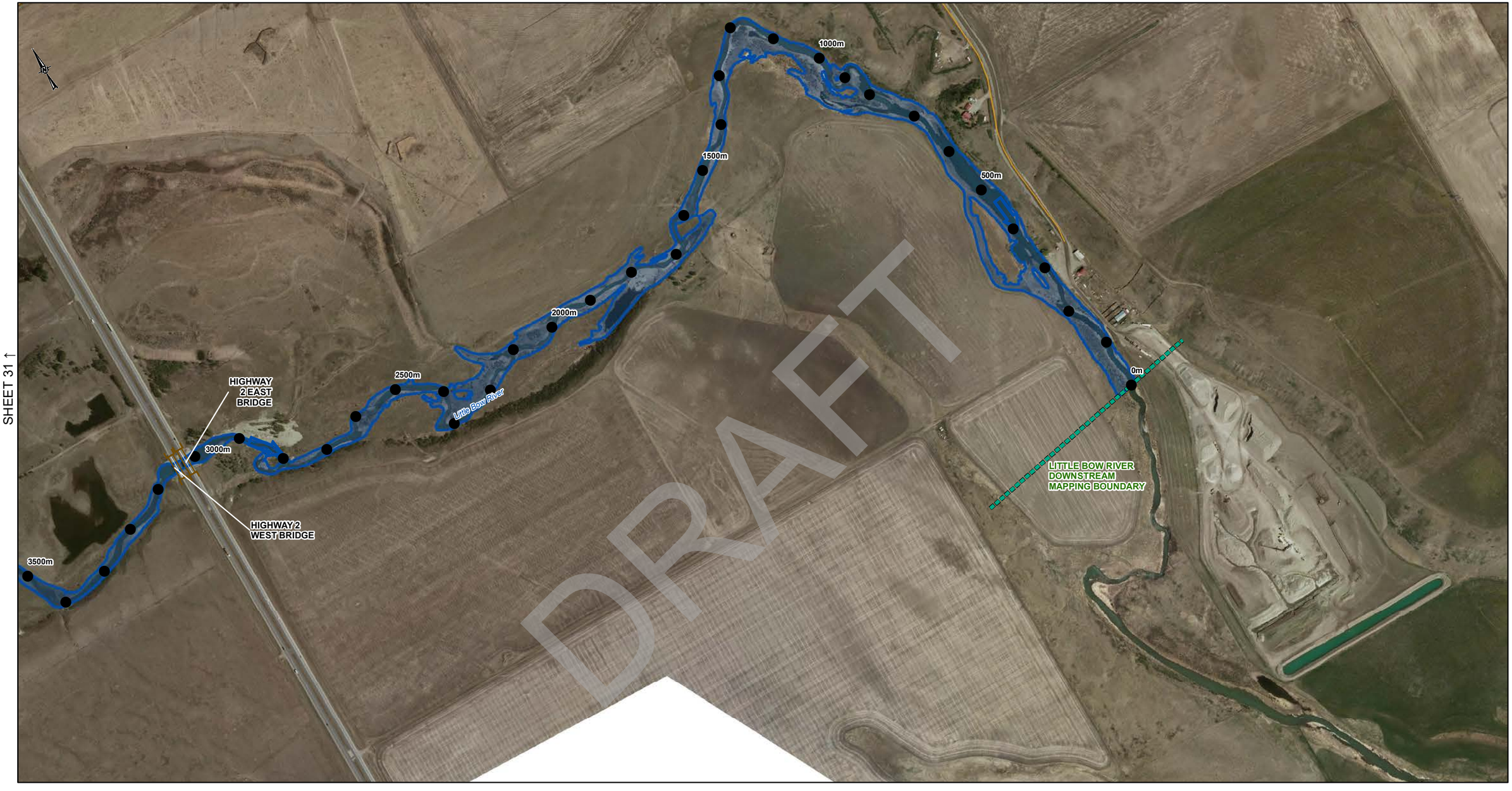
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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

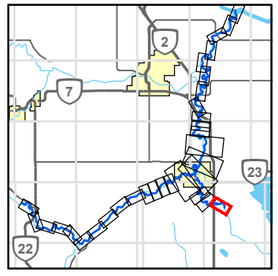
- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 10 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

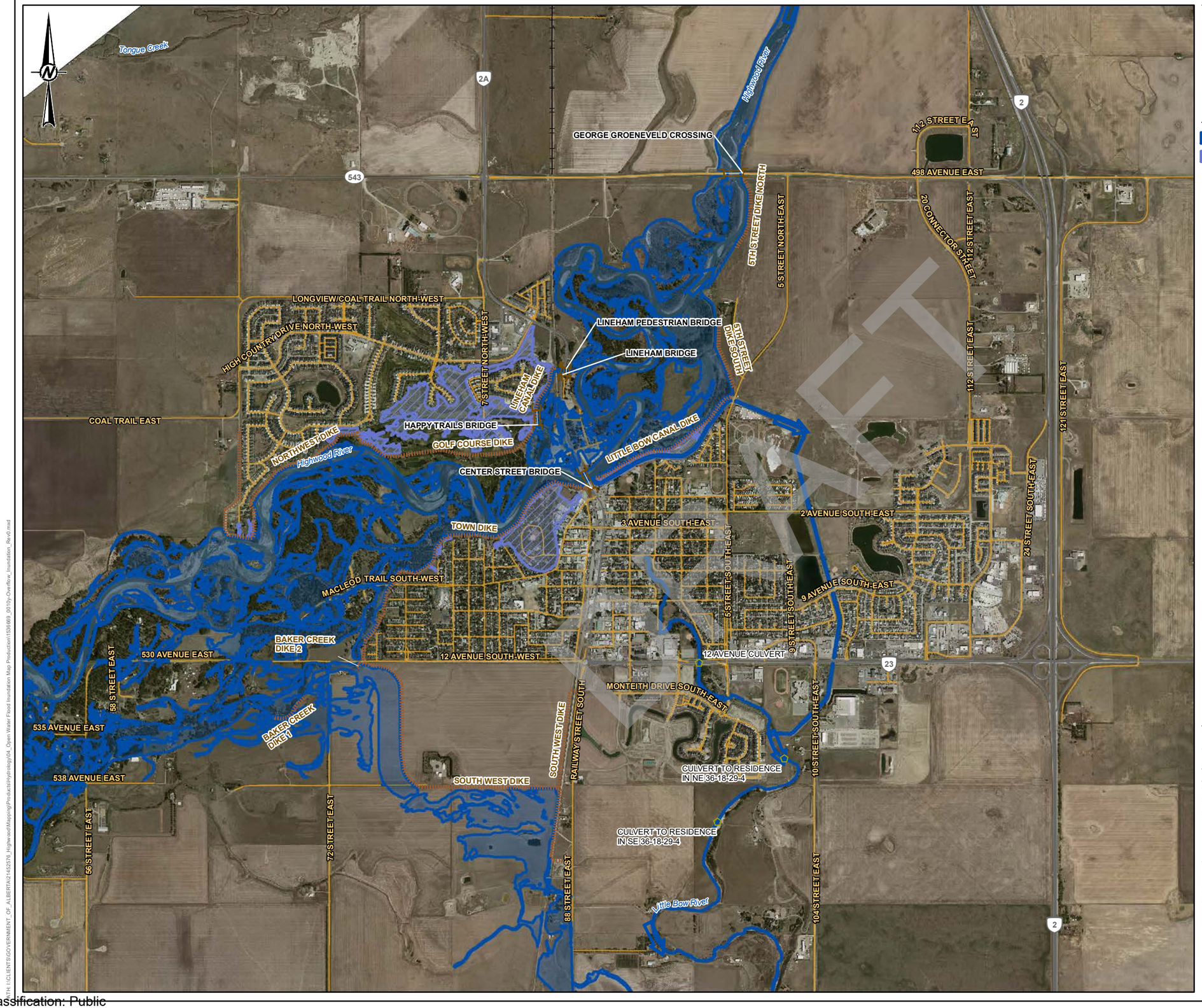
TITLE
10 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

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25mm
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Classification: Public



LEGEND

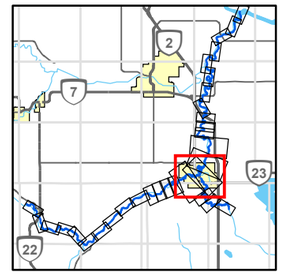
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

- 10-YEAR FLOOD EXTENT
- 10-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

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Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0010y-Overflow_Inundation_Rev0.mxd

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25mm

0

Classification: Public

20-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT

Classification: Public



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

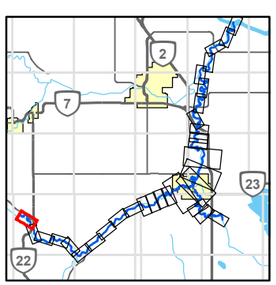
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0020y-Inundation_Rev0.mxd

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25mm

0

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

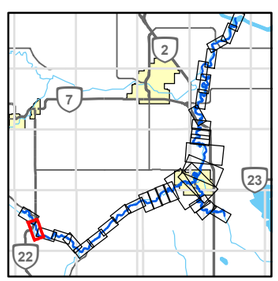
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S



0 250 500

1:7500 METRES

CLIENT
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

DRAFT

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25mm 0

Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

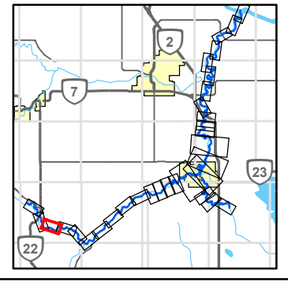
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S



0 250 500

1:7500 METRES

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0029y-Inundation_Rev0.mxd

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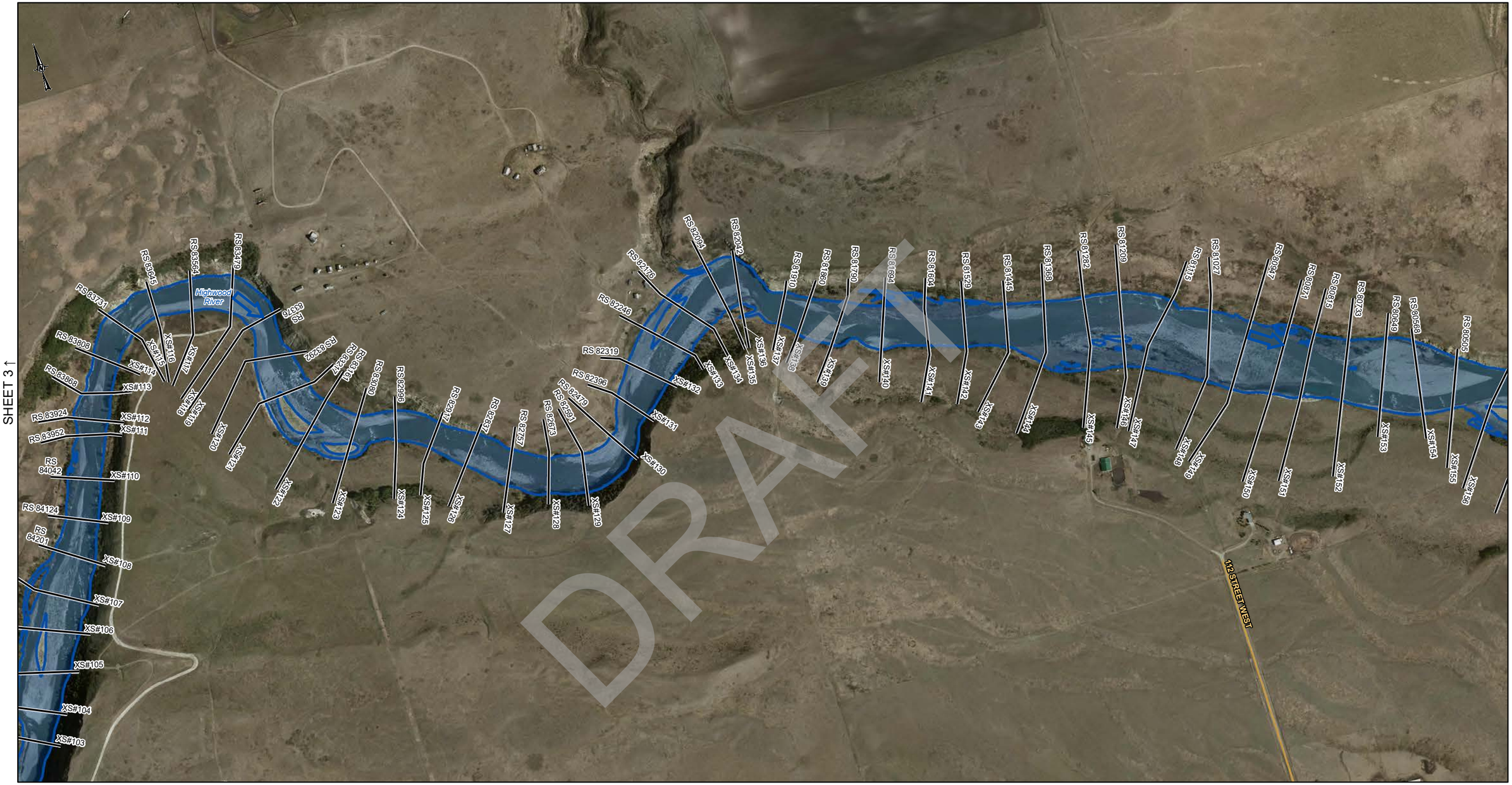
25mm

0

Classification: Public

SHEET 3 ↑

SHEET 5 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

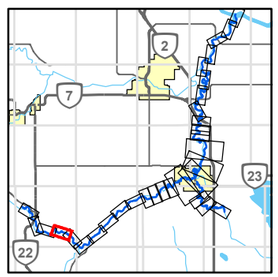
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S



0 250 500

1:7500 METRES

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

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25mm

0

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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
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- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

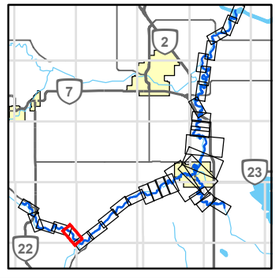
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S



0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0220y-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0
Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

XS#184 XS#185 XS#186 XS#187 XS#188 XS#189 XS#190 XS#192 XS#193 XS#194 XS#195 XS#196 XS#197 XS#198 XS#199 XS#200 XS#201 XS#202 XS#203 XS#204 XS#205 XS#206 XS#207 XS#208 XS#209 XS#210 XS#211 XS#212 XS#213 XS#214 XS#215 XS#216 XS#217 XS#218

RS78229 RS78142 RS78050 RS77962 RS77902 RS77821 RS77741 RS77660 RS77590 RS77499 RS77420 RS77344 RS77280 RS77168 RS77051 RS76999 RS76784 RS76669 RS76542 RS76418 RS76237 RS76119 RS76000 RS75982 RS75894 RS75853 RS75721 RS75635 RS75419 RS75109 RS74995 RS74874 RS74759 RS74632 RS74512

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

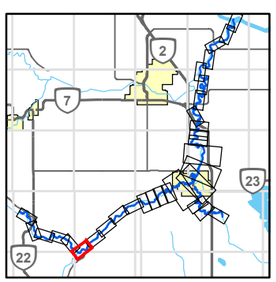
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 377 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

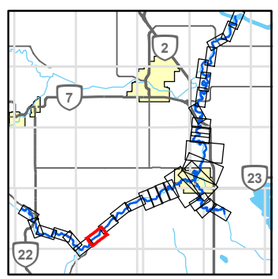
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

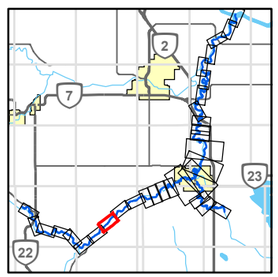
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

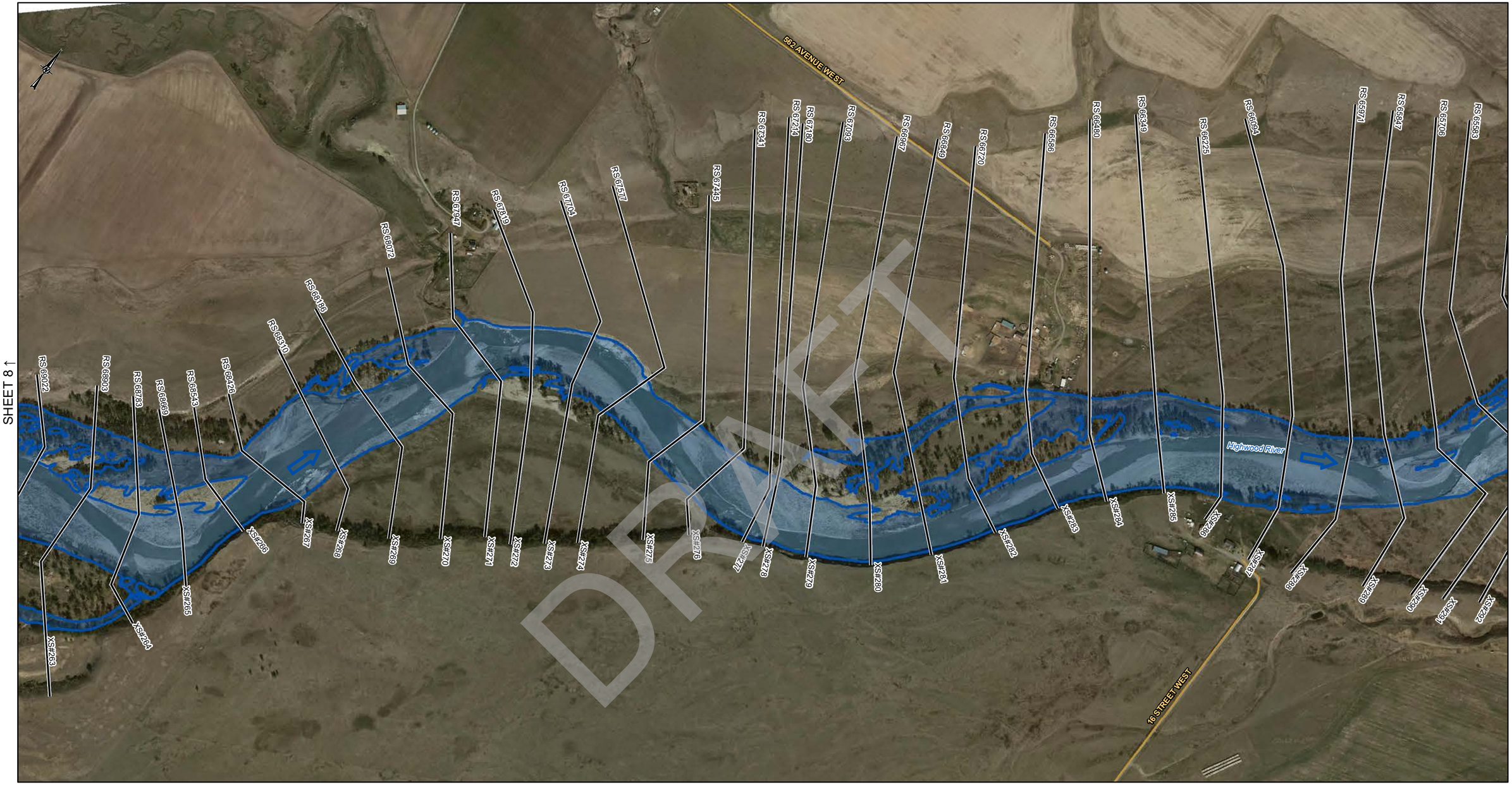
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

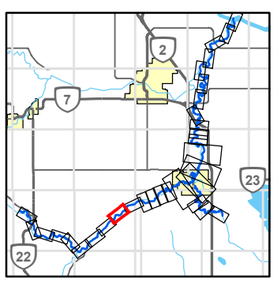
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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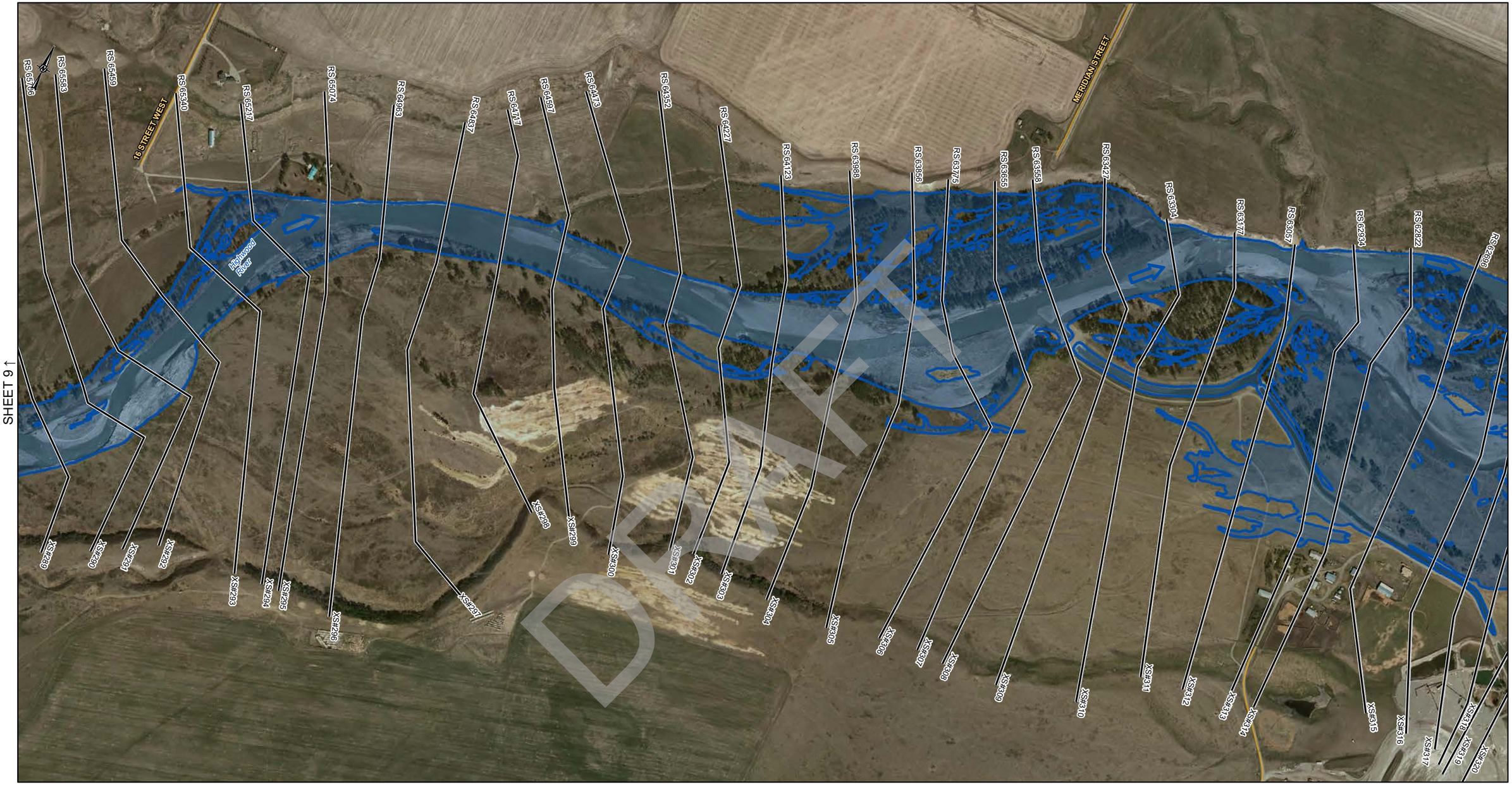
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

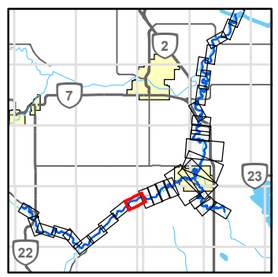
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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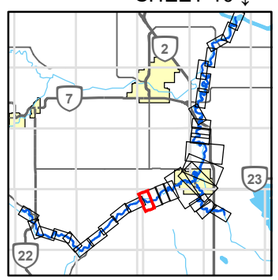
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 188 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 320 M^3/S

0 250 500
1:7500 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

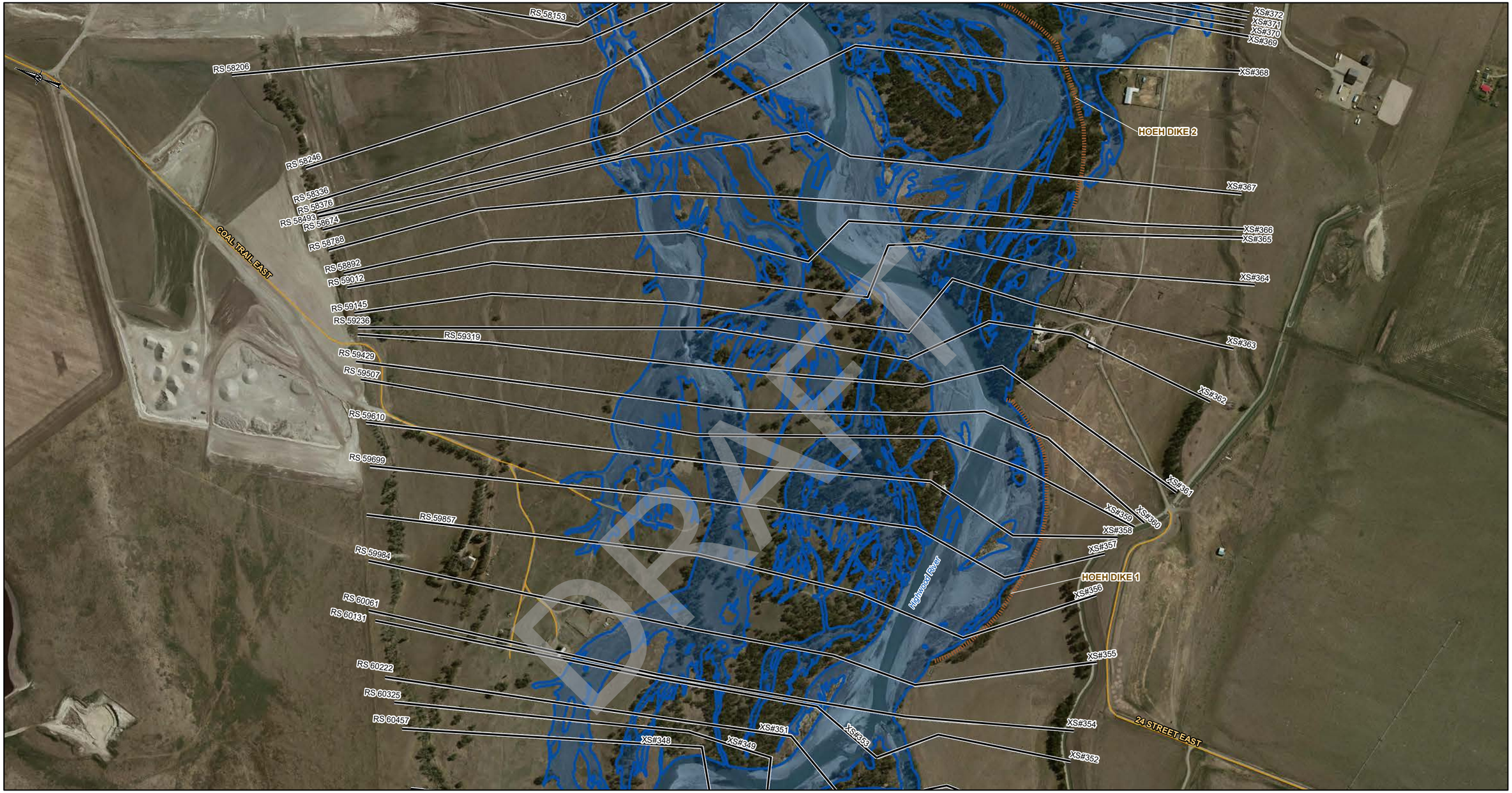
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

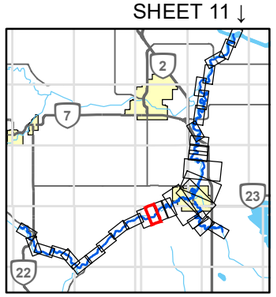
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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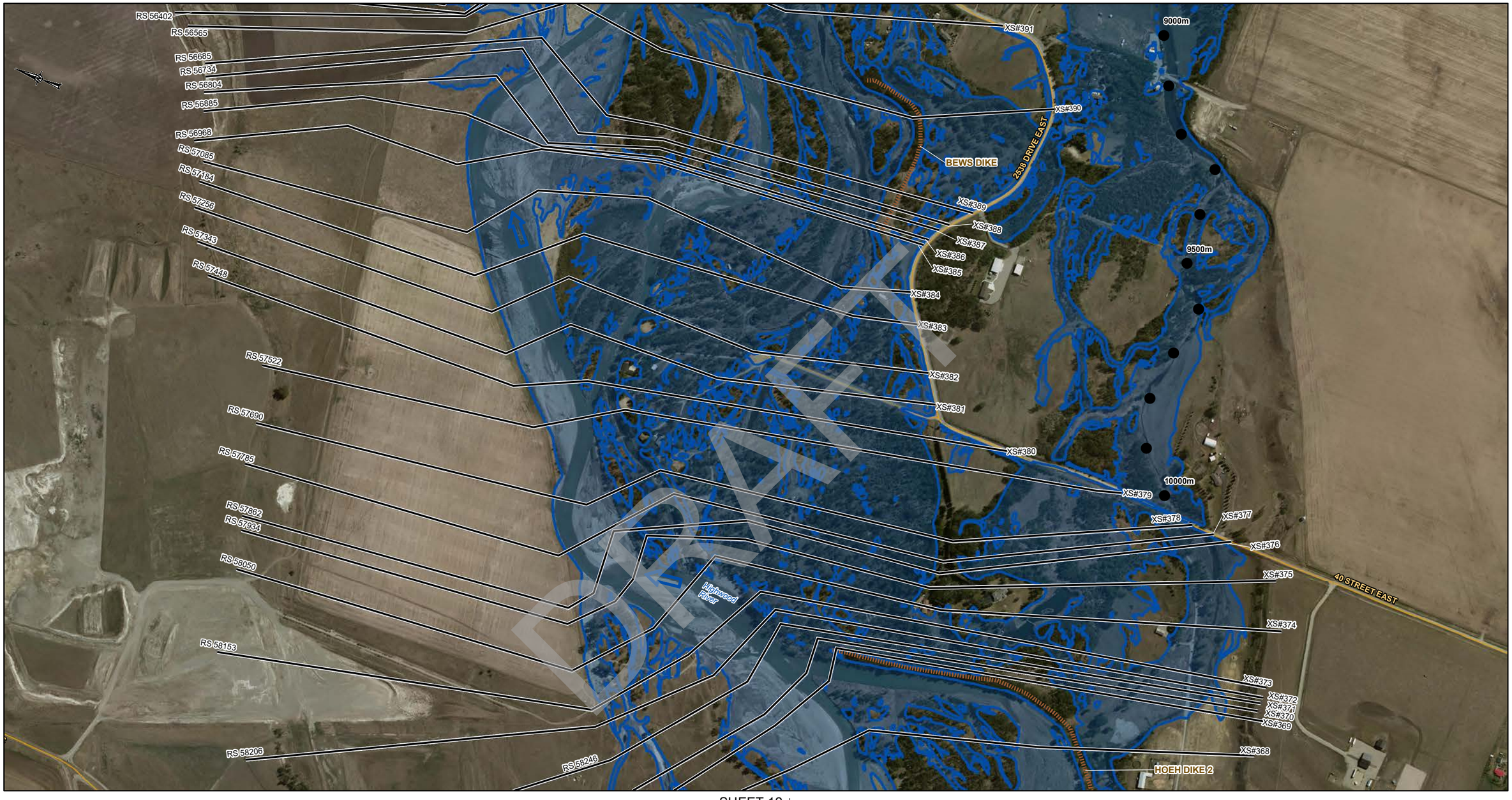
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25mm

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Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

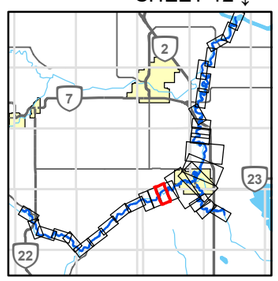
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

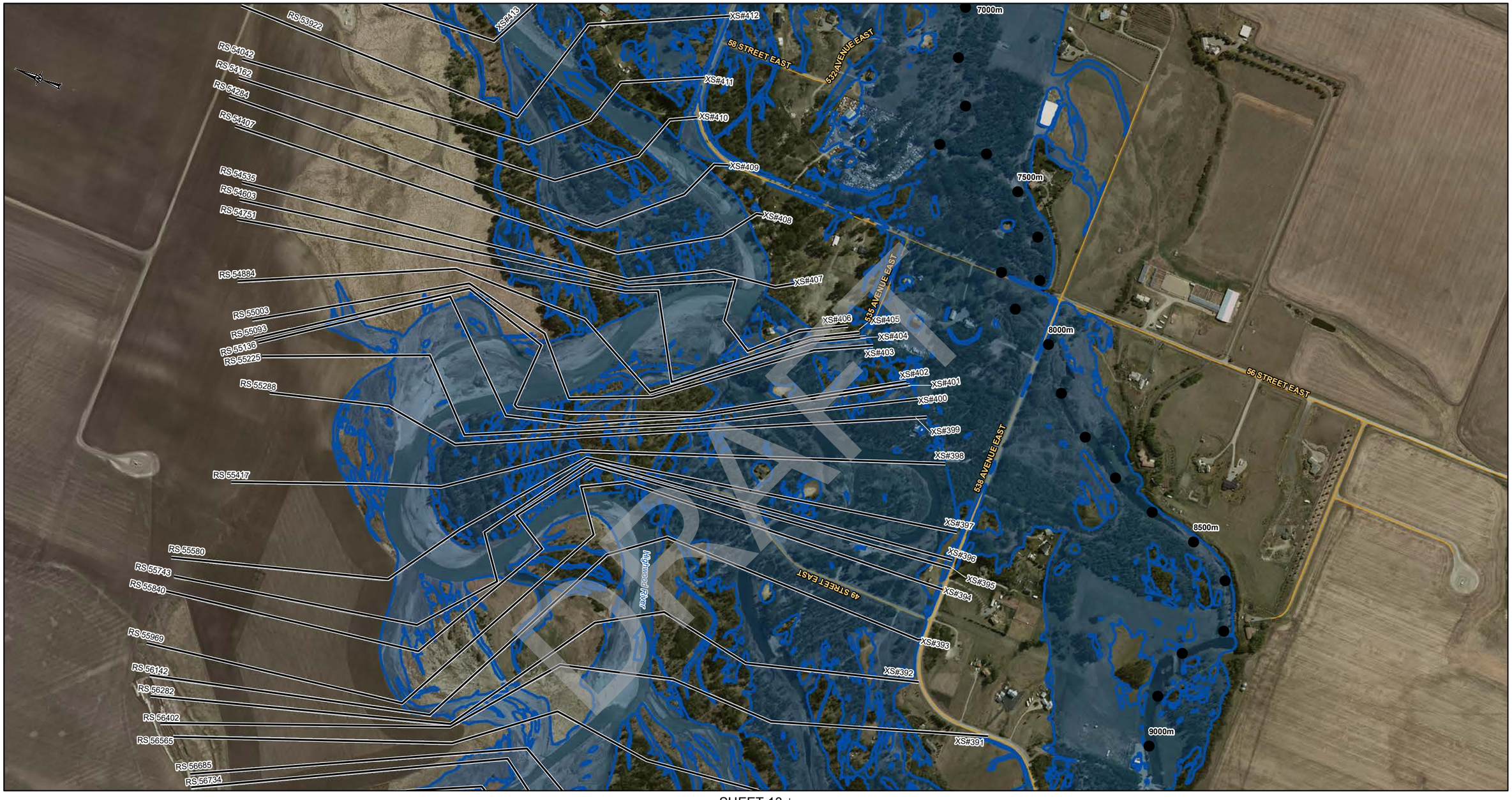
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25mm

Classification: Public

SHEET 15 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

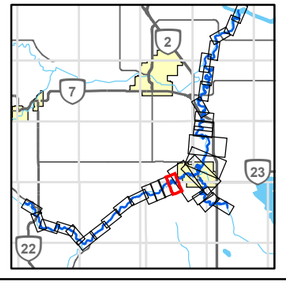
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S

SHEET 13 ↓



0 250 500
1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0029y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

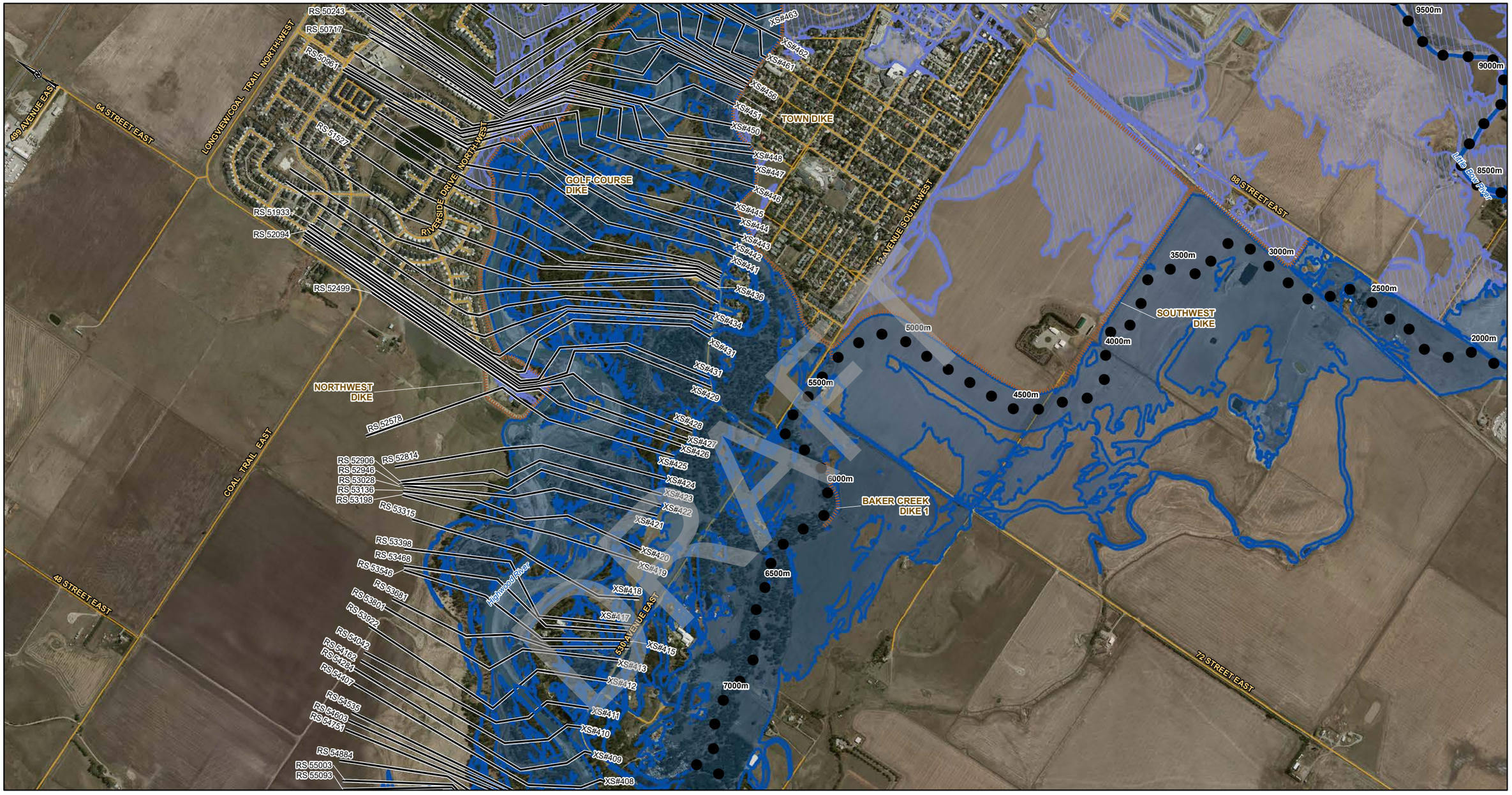
DRAFT

Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

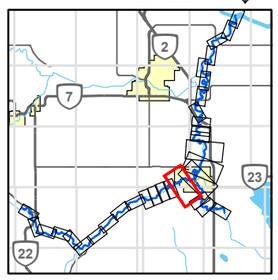
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

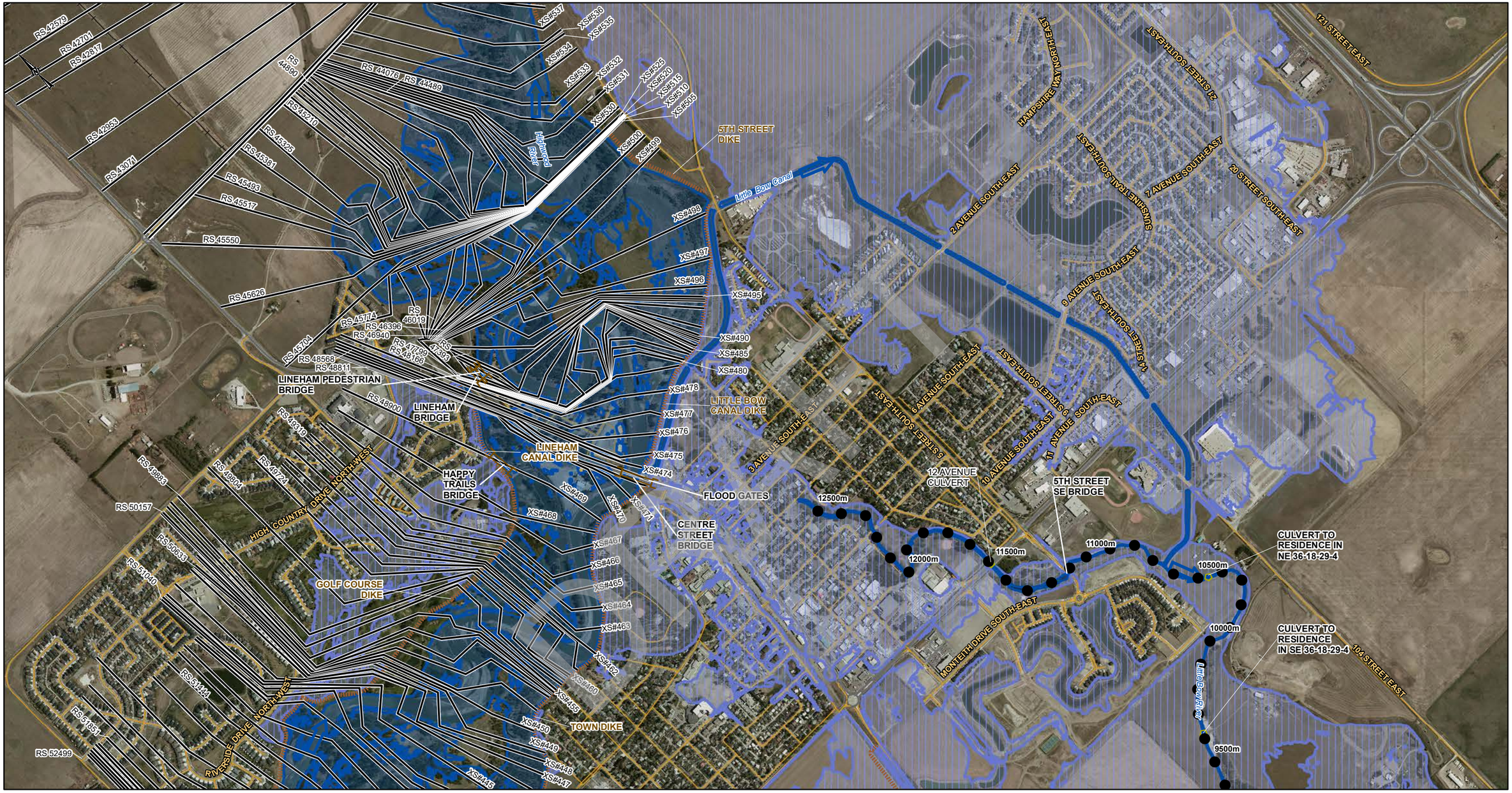
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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

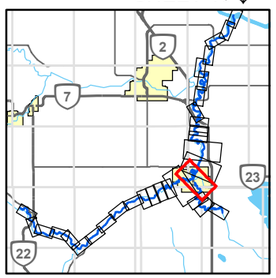
20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 508 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

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Classification: Public

SHEET 18 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

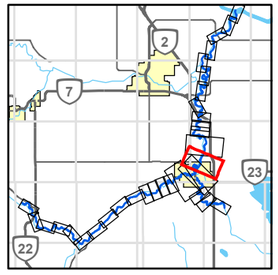
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S



0 250 500

1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 17 of 33

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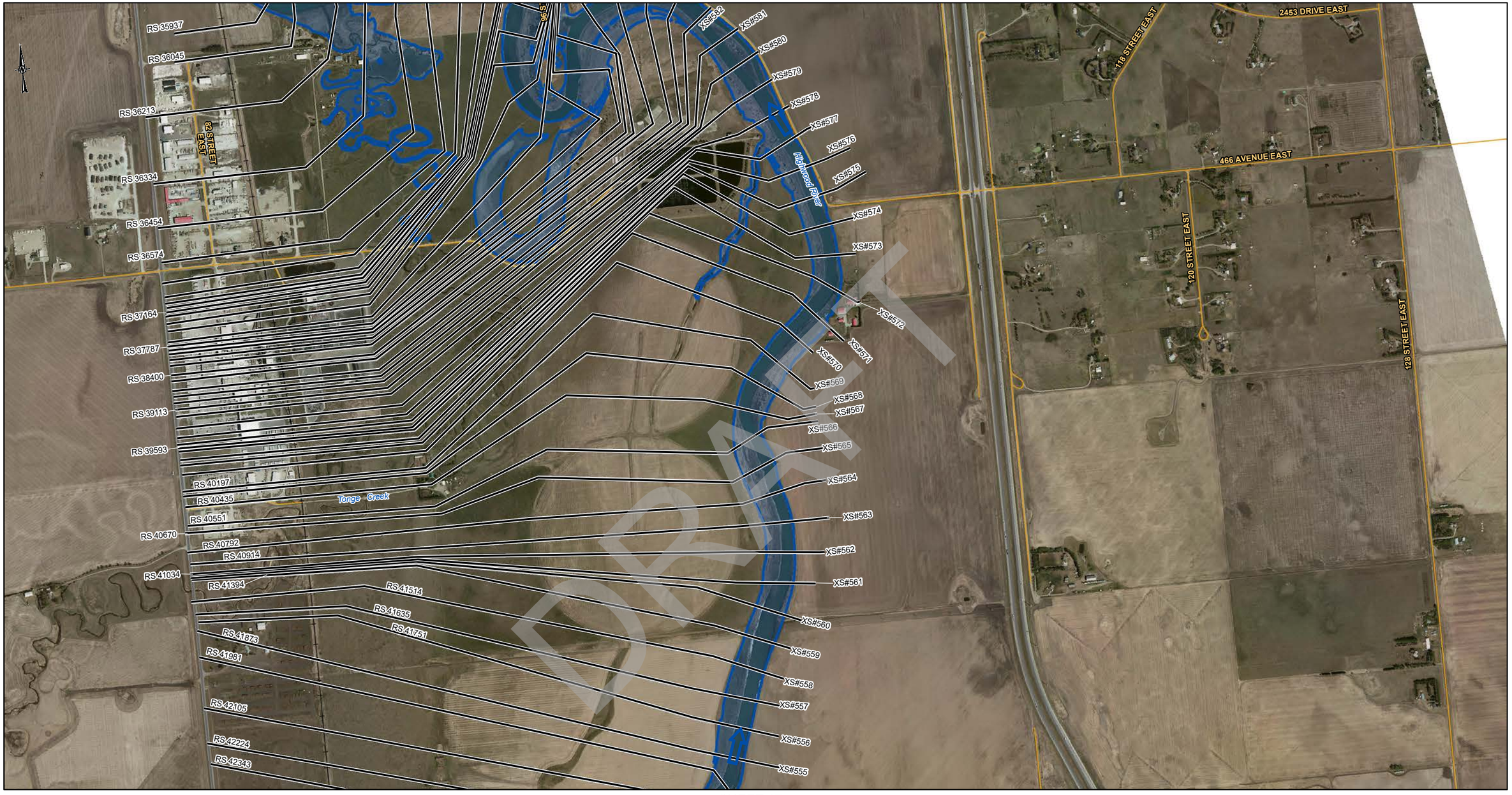
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Classification: Public

SHEET 19 ↑



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LEGEND

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- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

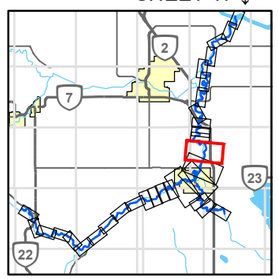
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

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SHEET 20 ↑



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LEGEND

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- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

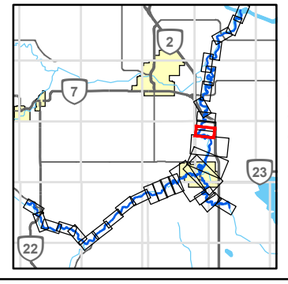
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 18 ↓



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_2022\y-Inundation_Rev0.mxd

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Classification: Public

SHEET 21 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

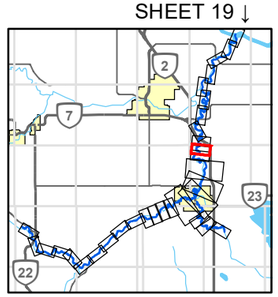
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

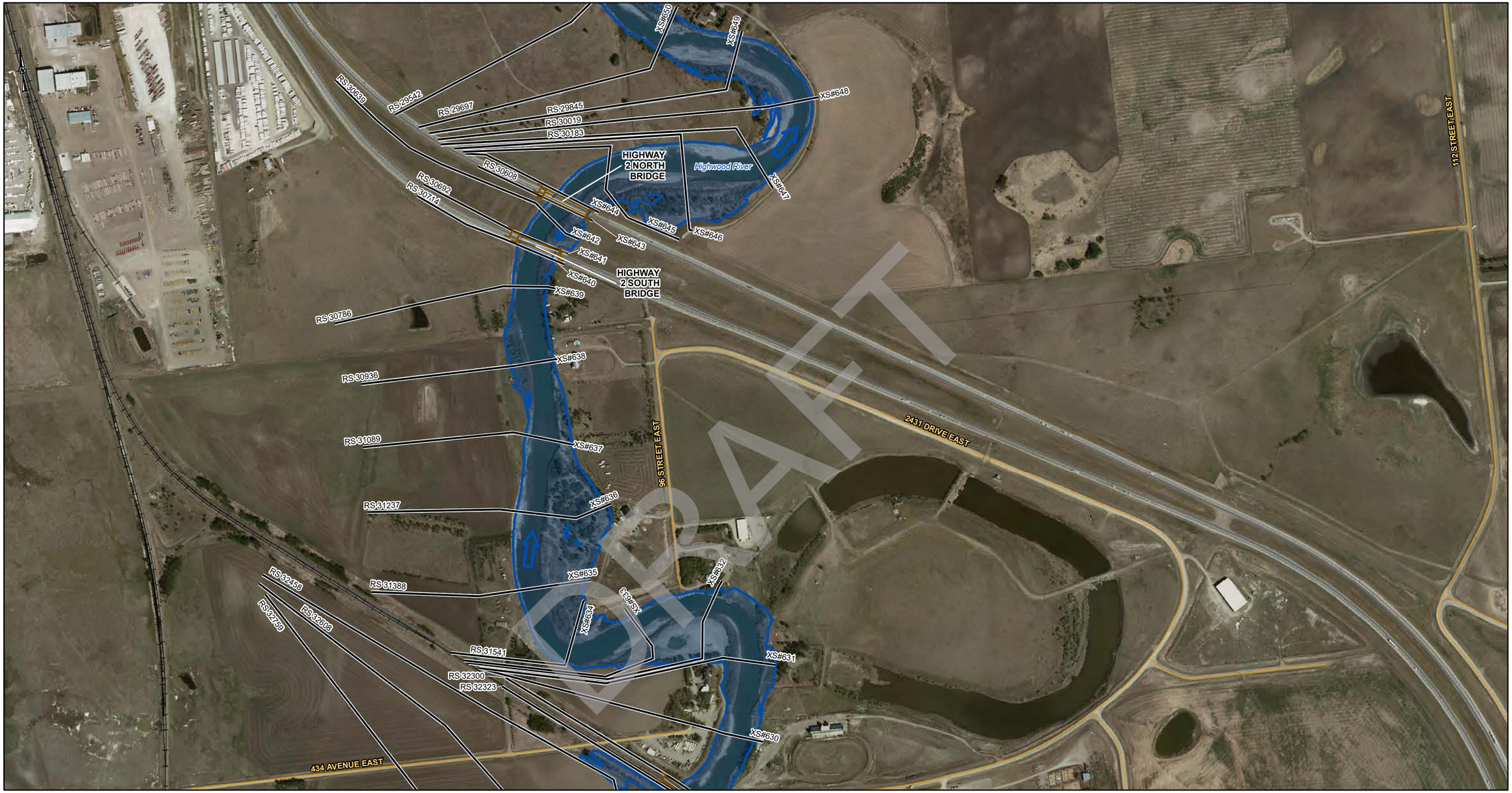
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

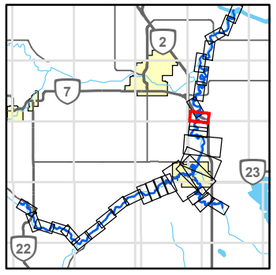
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 21 ↑

SHEET 23 ↓

DRAFT

HIGHWAY 2 SOUTH BRIDGE
HIGHWAY 2 NORTH BRIDGE
DRIVE EAST
61 STREET EAST
416 AVENUE EAST
96 STREET EAST
Highwood River

RS 31089
RS 30629
RS 30478
RS 30074
RS 30092
RS 30639
RS 30608
RS 30586
RS 29824
RS 29687
RS 29645
RS 29382
RS 29227
RS 28992
RS 28774
RS 28826
RS 28468
RS 28332
RS 28152
RS 27997
RS 27873
RS 27700
RS 27547
RS 27399
RS 27249
RS 27091
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RS 26794
RS 26638
RS 26492
RS 26342
RS 26190
RS 26048
RS 25908
RS 25564
RS 25307
RS 25178
RS 25089

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RAILWAY
- FLOOD CONTROL STRUCTURE

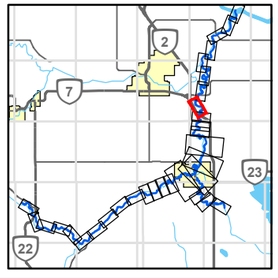
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

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Classification: Public

SHEET 22 ↑

SHEET 24 ↓

SILVERTIP PLACE
HIGHWAY 547 BRIDGE
96 STREET EAST
104 STREET EAST
2378 DRIVE EAST
Sheep River
Highwood River

RS 26048 XS#678 XS#679 RS 25249 XS#680 RS 24949 XS#681 RS 24789 XS#682 RS 24644 XS#683 RS 24593 XS#684 RS 24386 XS#685 RS 24351 XS#686 RS 24206 XS#687 RS 24061 XS#688 RS 23899 XS#689 RS 23754 RS 23669 RS 23447 XS#692 RS 23299 XS#693 RS 23162 XS#694 RS 23000 XS#695 RS 22843 XS#696 RS 22696 XS#697 RS 22543 XS#698 XS#699 RS 22361 XS#700 RS 22269 XS#701 RS 22090 XS#702 RS 22099 RS 21991 XS#703 RS 21866 RS 21791 XS#704 RS 21684 RS 21636 XS#705 RS 21588 RS 21526 XS#706 RS 21192 XS#707 RS 21078 XS#708 RS 21161 XS#709 RS 21028 XS#710 RS 20876 XS#711 RS 20772 XS#712

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LEGEND

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- FLOOD CONTROL STRUCTURE

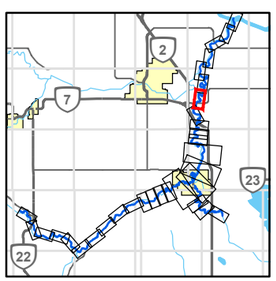
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S



0 250 500
1:7500 METRES

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Alberta Government

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

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SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

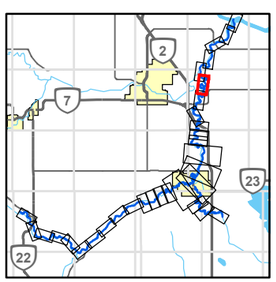
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

1:7500 METRES

CLIENT

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

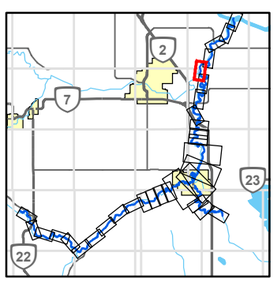
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 836 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0020y-Inundation_Rev0.mxd

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25mm
0

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

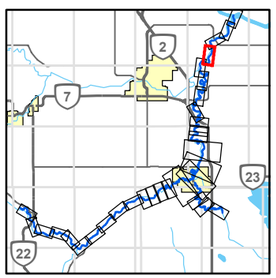
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 836 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0020r-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0
Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

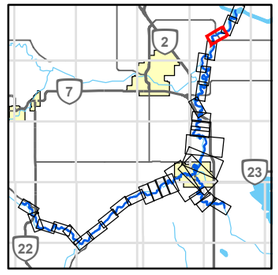
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 836 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

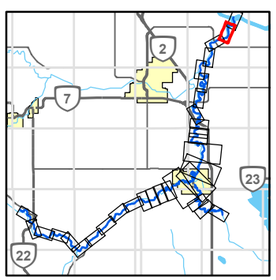
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 836 M^3/S



0 250 500

1:7500 METRES

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

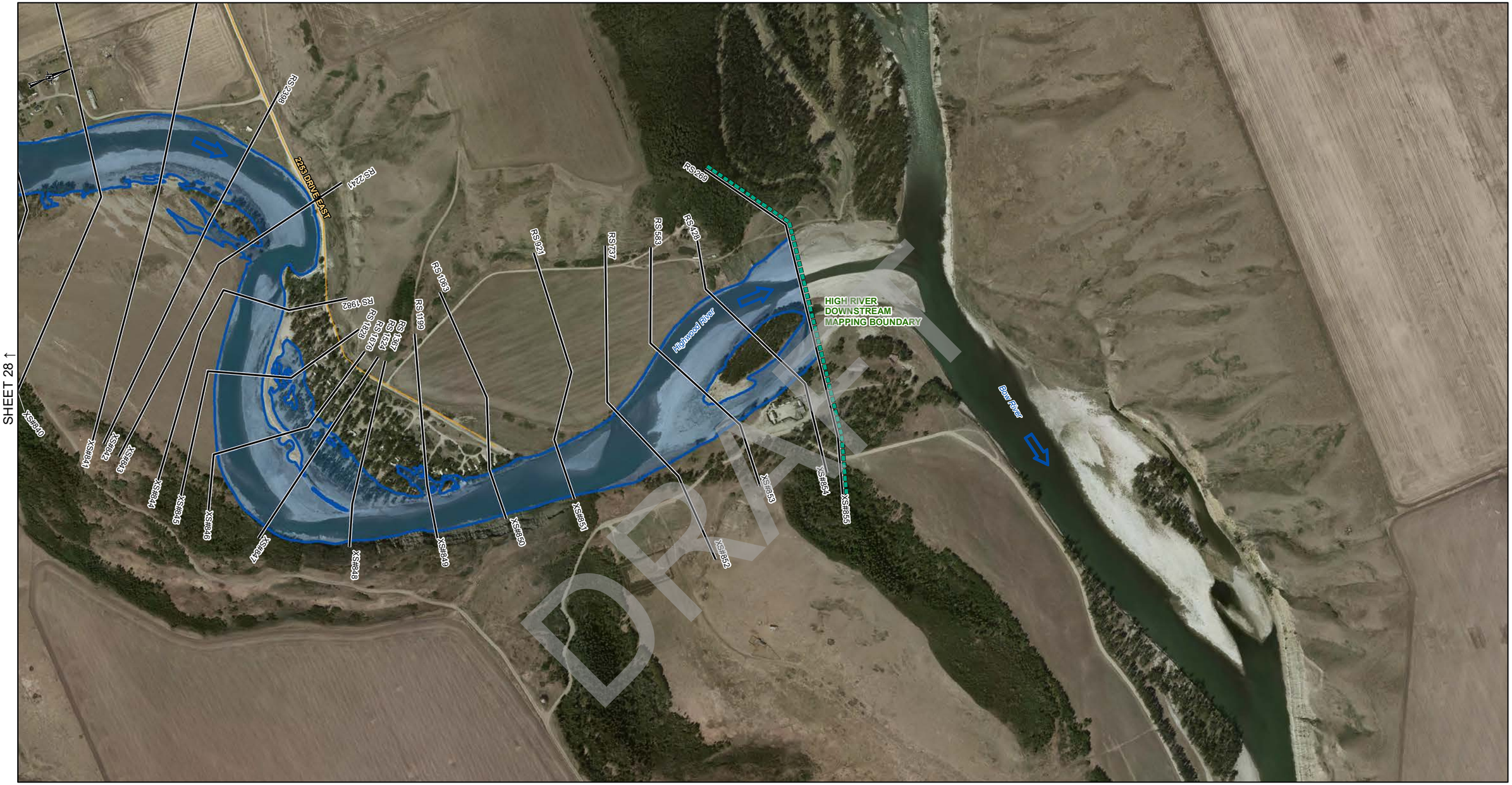
25mm

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Classification: Public

SHEET 28 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

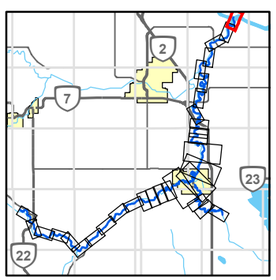
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 836 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

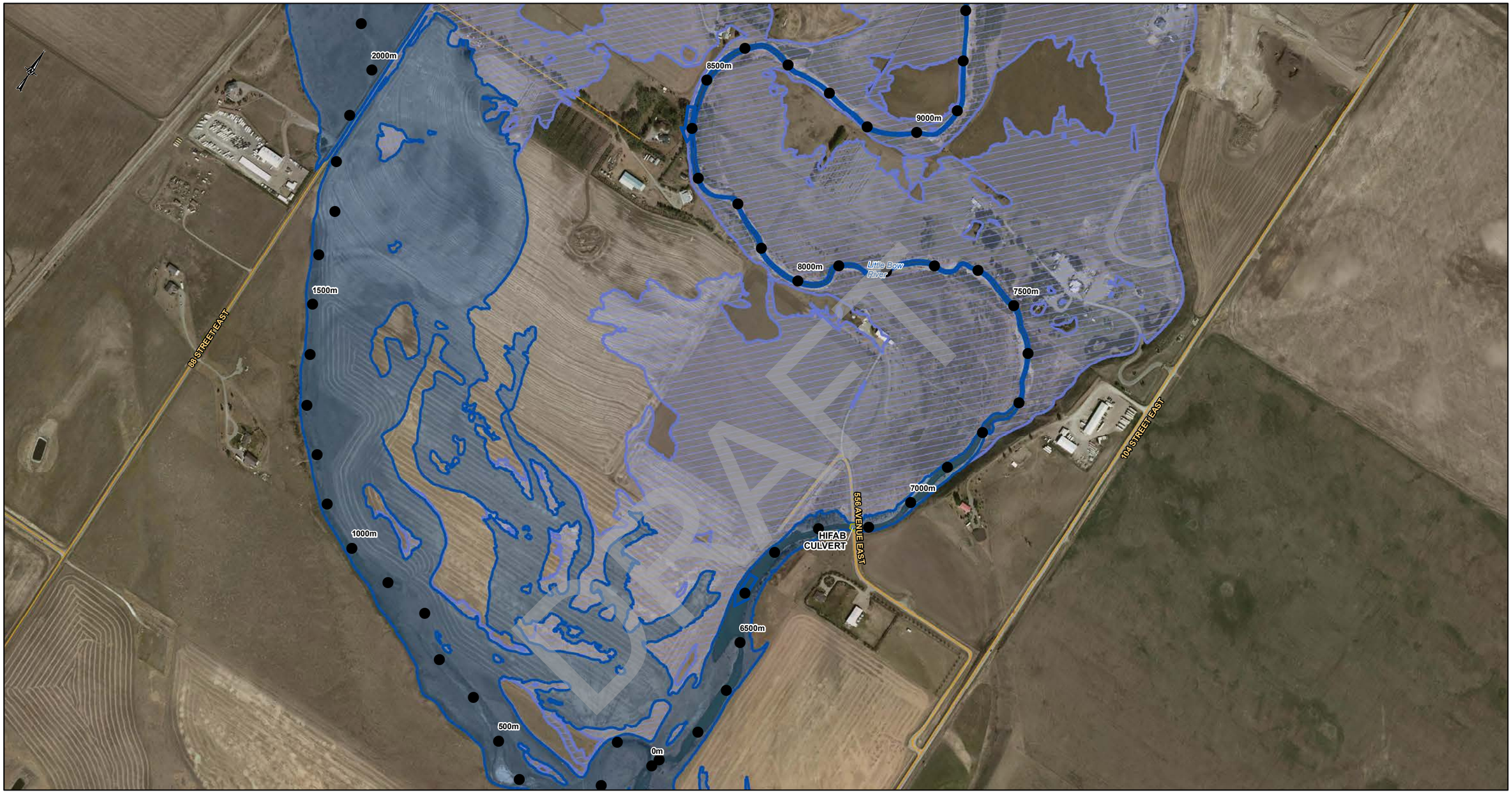
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

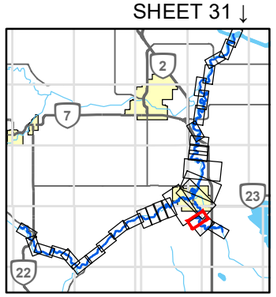
Classification: Public

SHEET15 ↑

SHEET 16 ↓



SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 61 M^3/S

0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

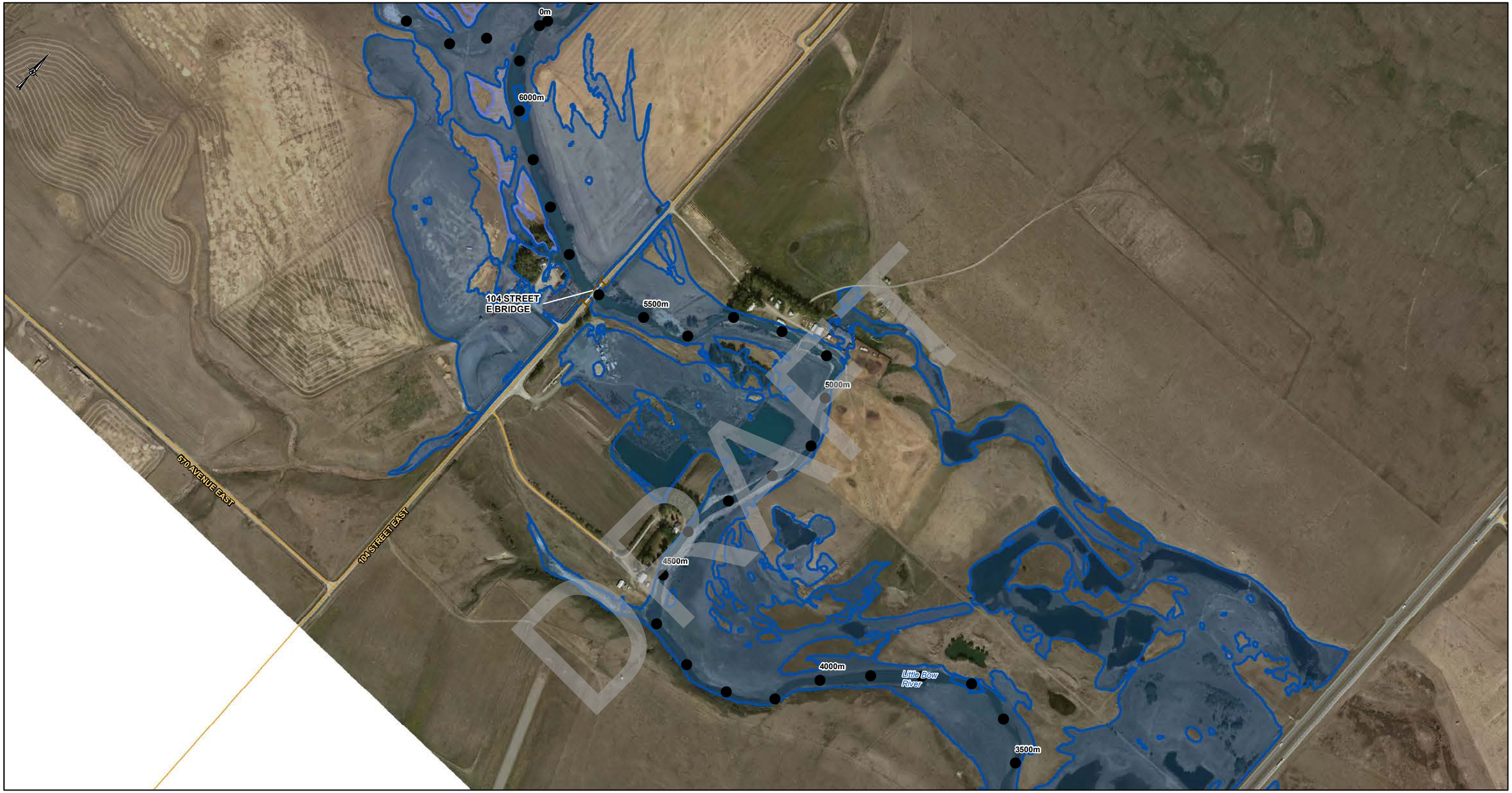
DRAFT

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25mm
0

Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

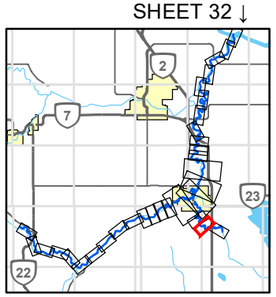
- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 61 M^3/S

SHEET 32 ↓



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0020y-Inundation_Rev0.mxd

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25mm

0

Classification: Public

SHEET 31 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

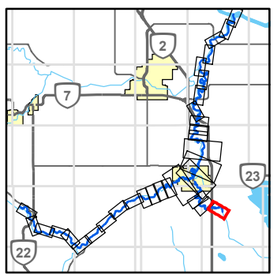
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 61 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

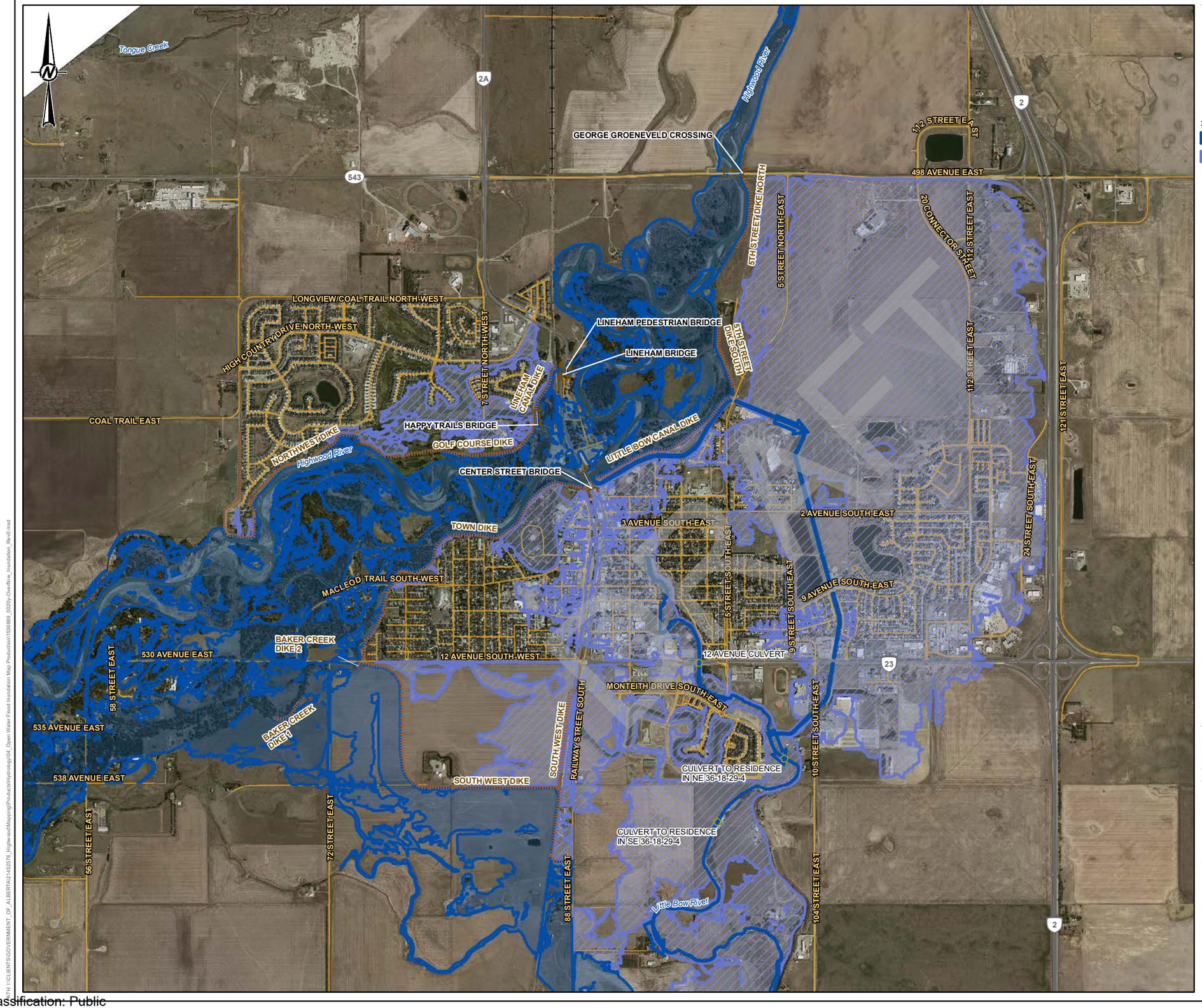
TITLE
20 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

Classification: Public



LEGEND

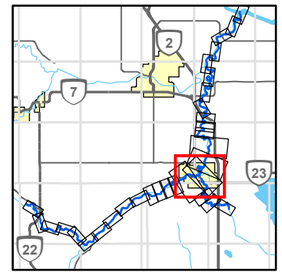
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0020y-Overflow_Inundation_Rev0.mxd

Classification: Public

35-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT

Classification: Public



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

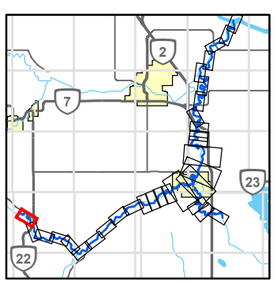
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S



0 250 500
1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

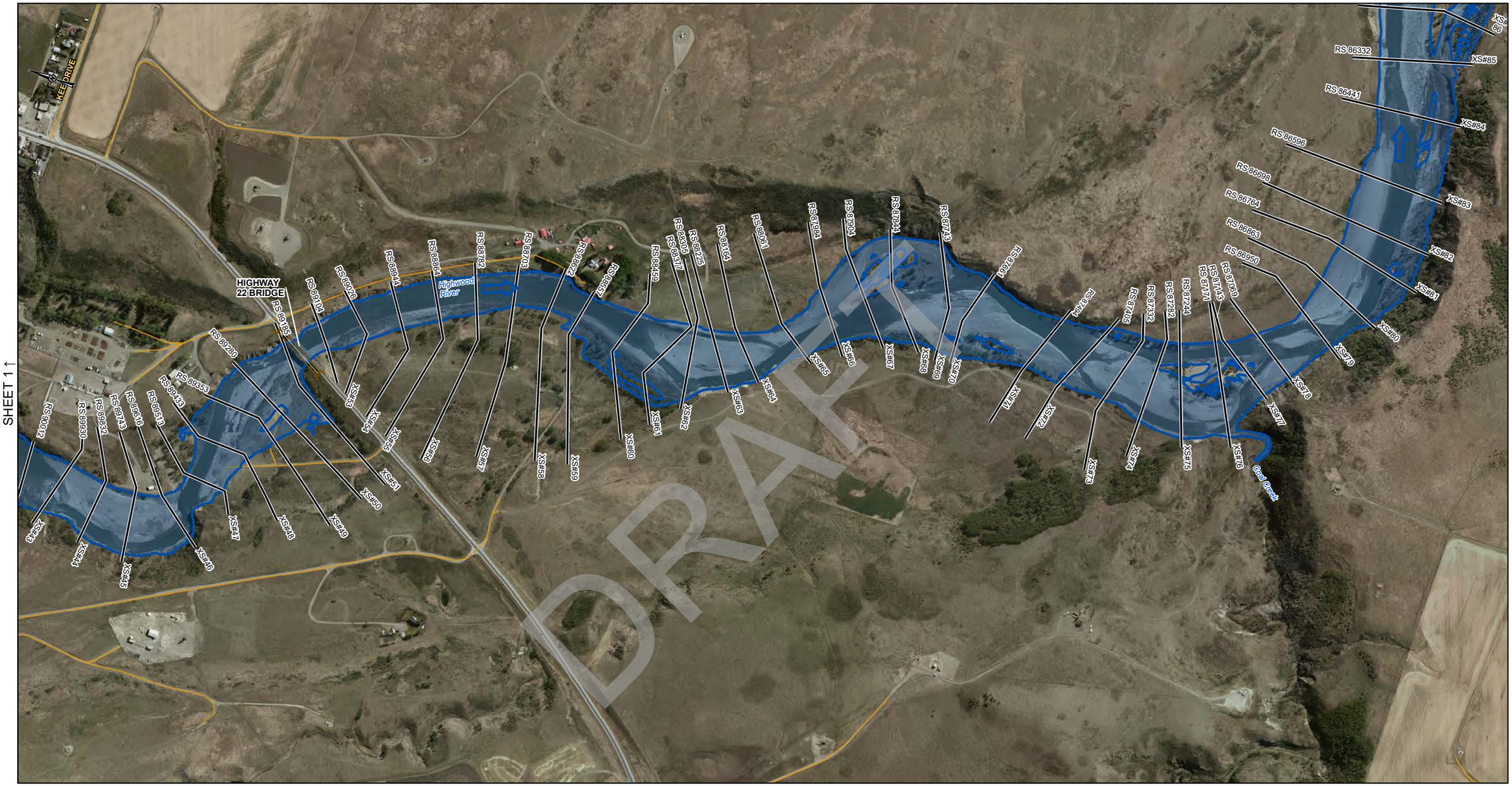
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

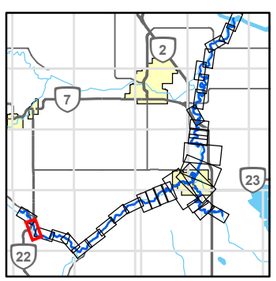
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

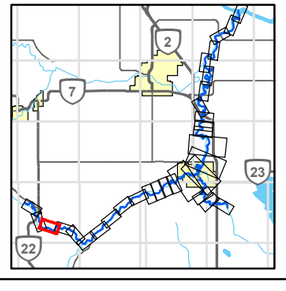
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

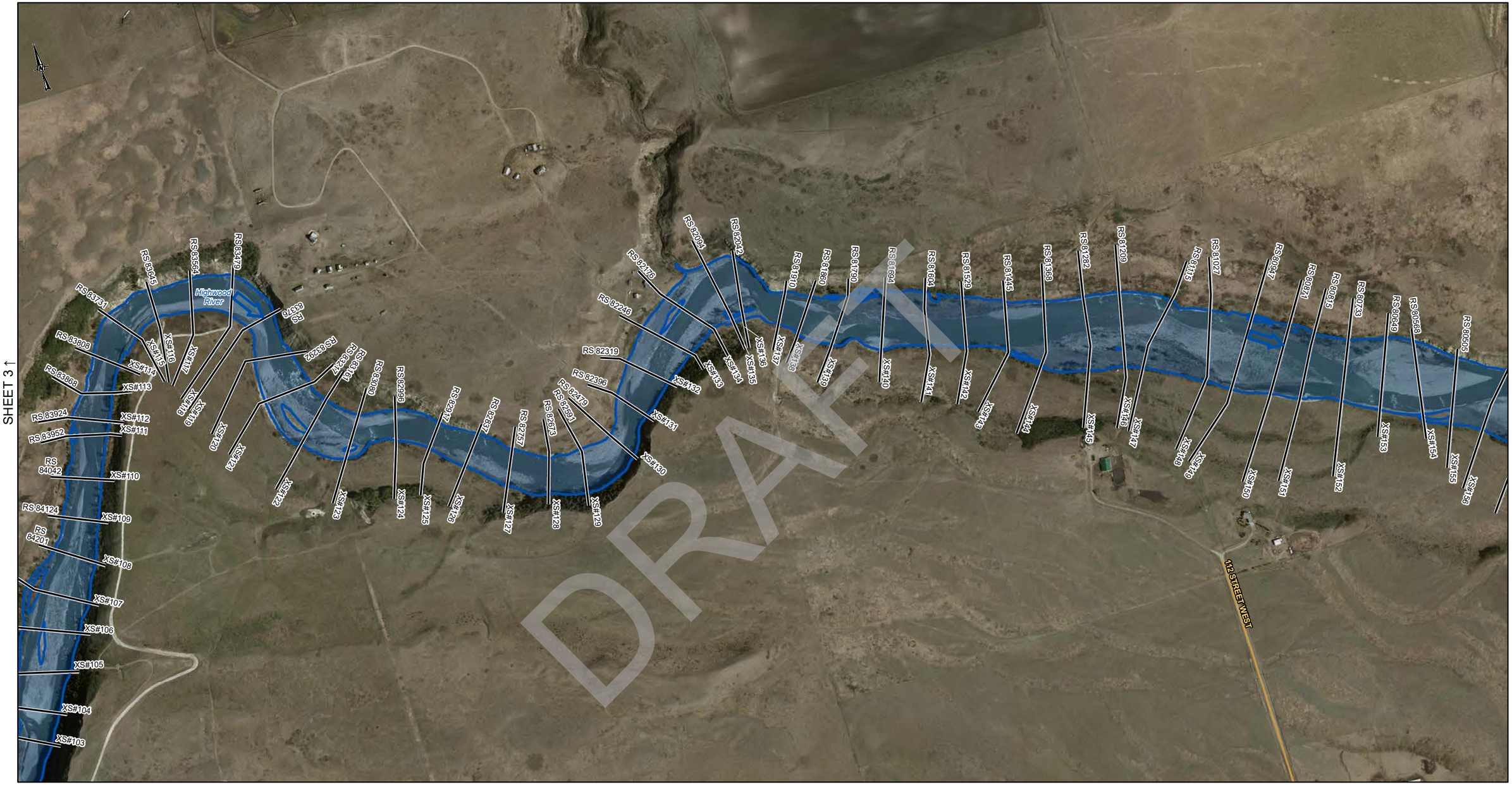
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25mm
0

Classification: Public

SHEET 3 ↑

SHEET 5 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

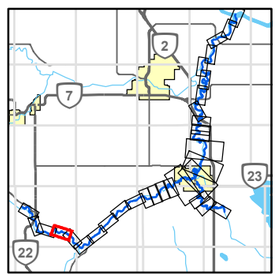
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



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LEGEND

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- CROSS SECTION
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- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

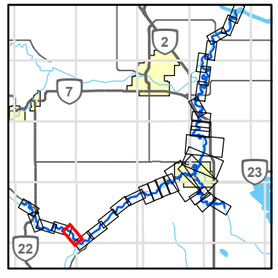
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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25mm

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
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- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 516 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S

0 250 500
1:7500 METRES

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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 6 ↑



SHEET 8 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

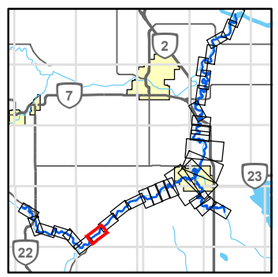
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500
1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

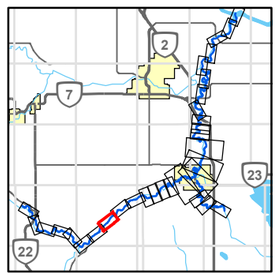
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

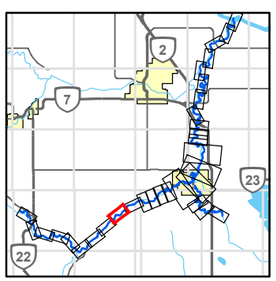
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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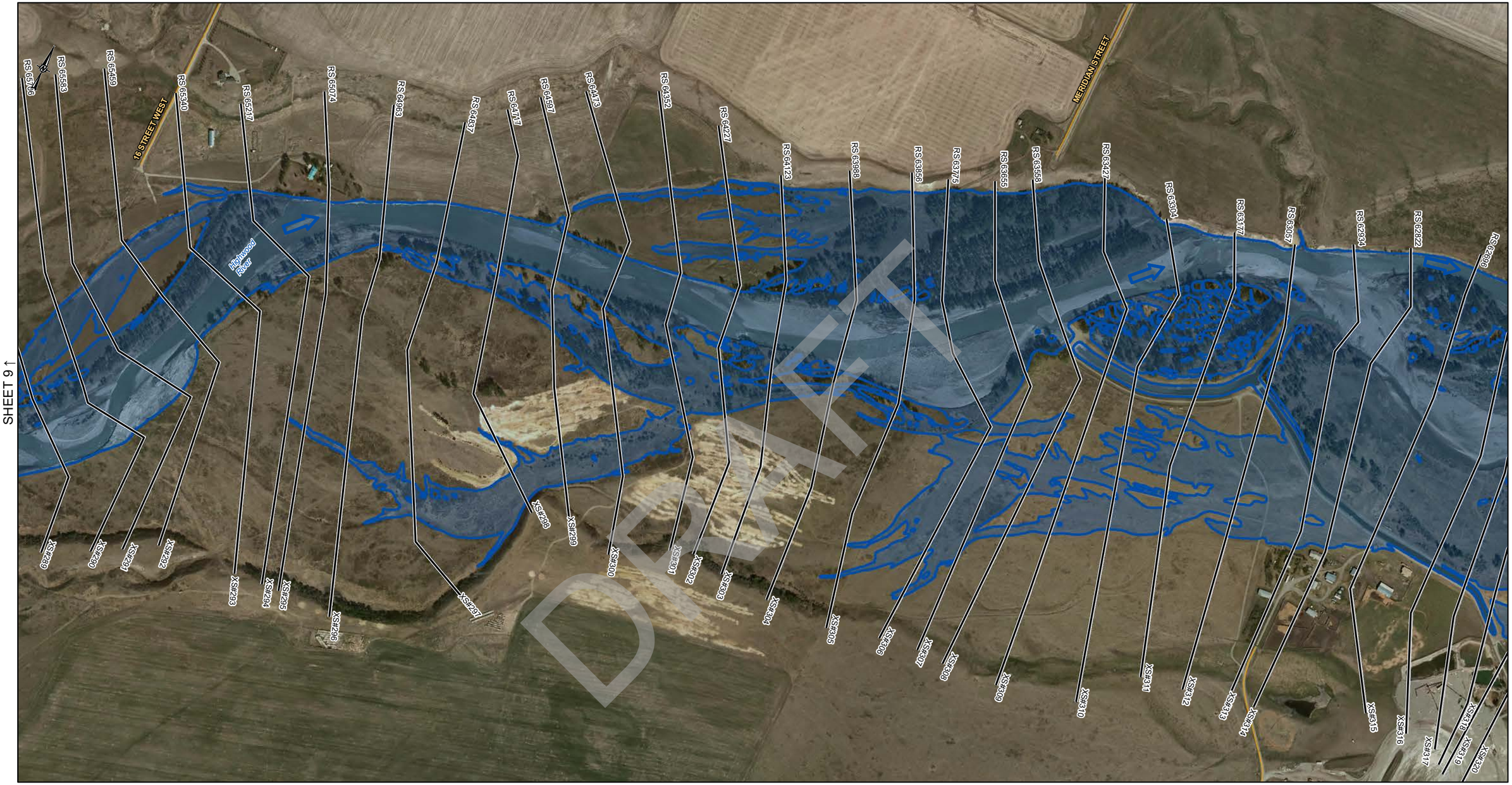
25mm

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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

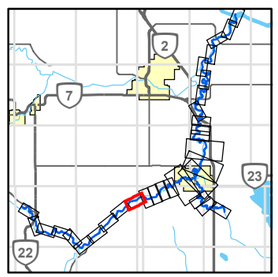
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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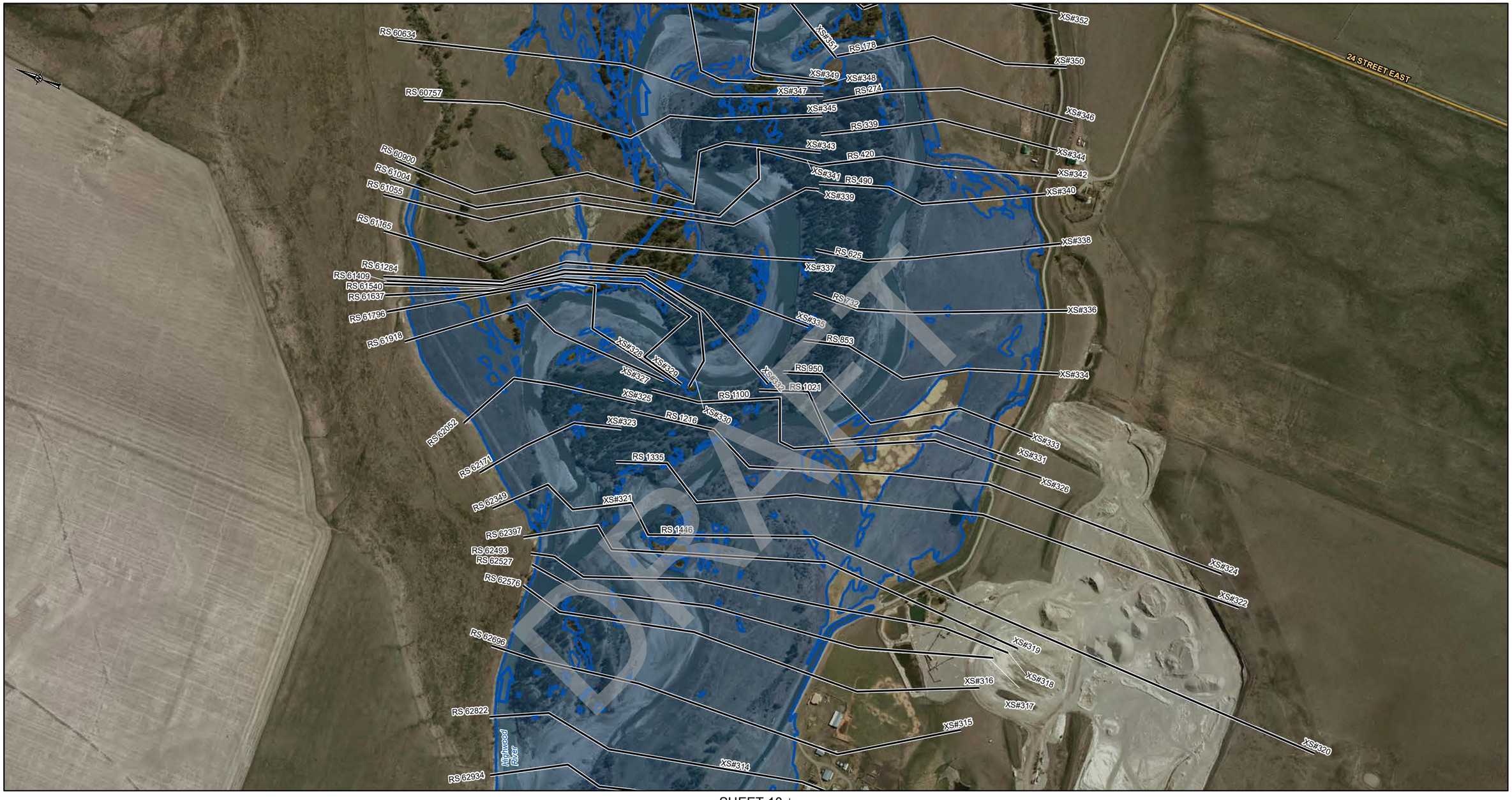
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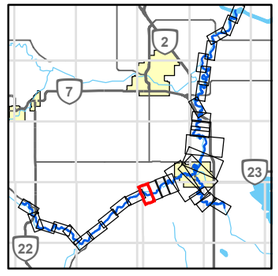
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 258 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 438 M^3/S

0 250 500
1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

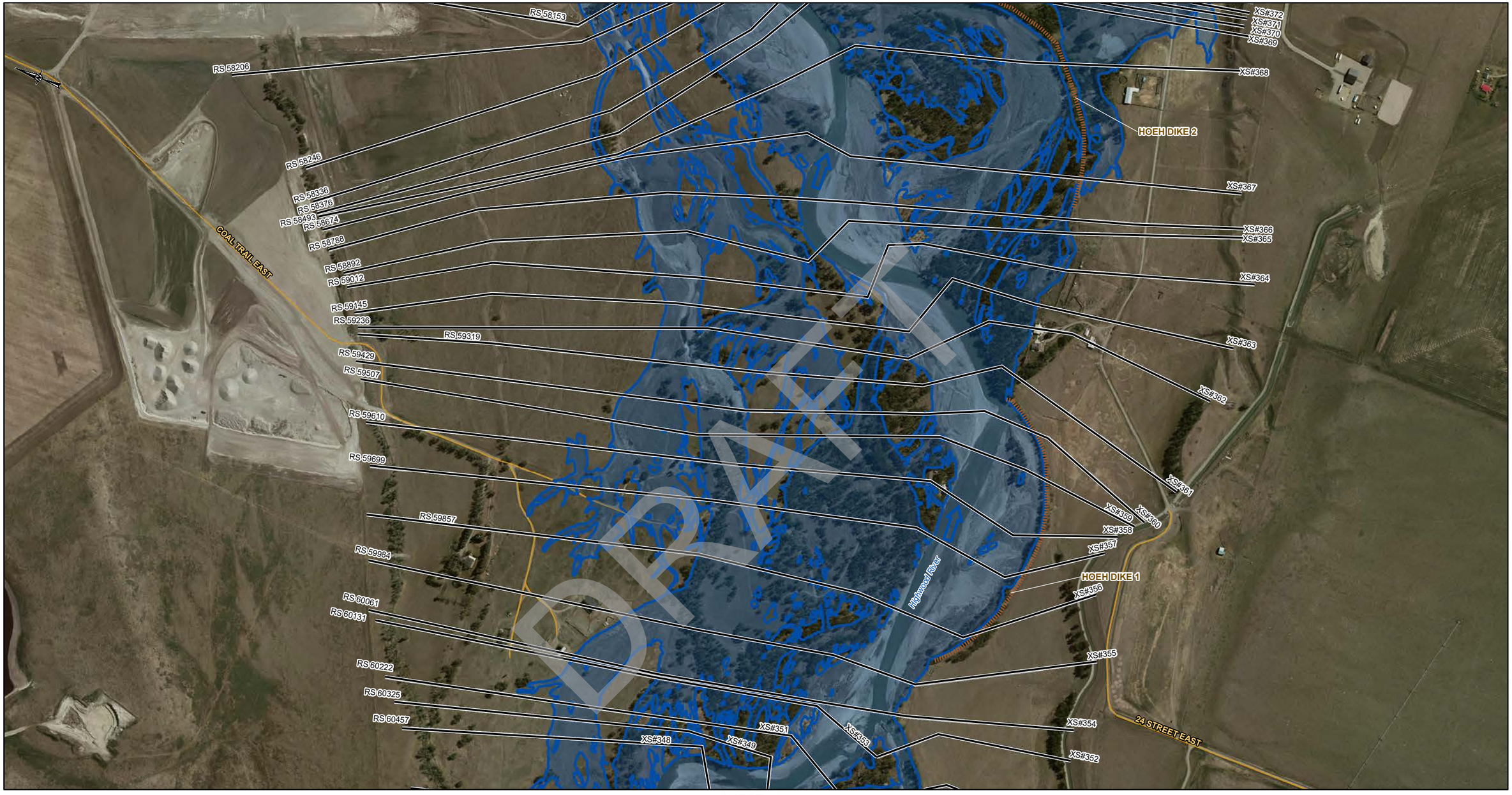
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

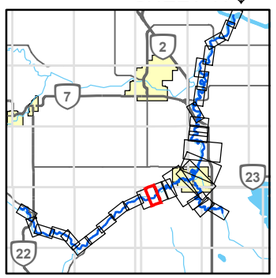
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

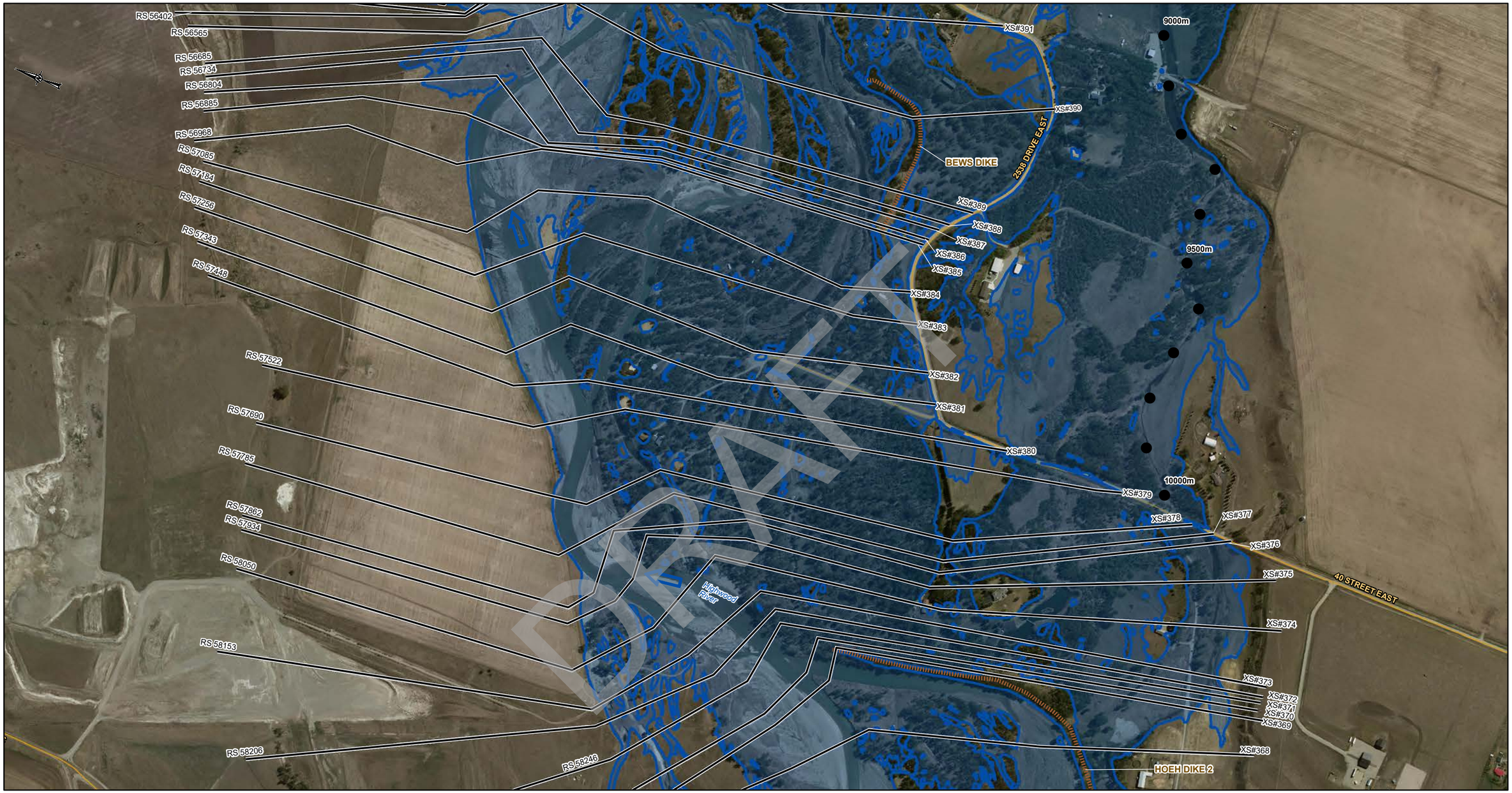
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm

Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

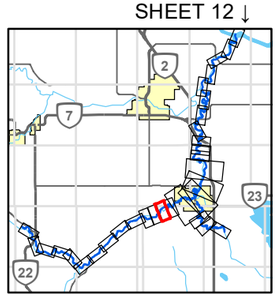
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

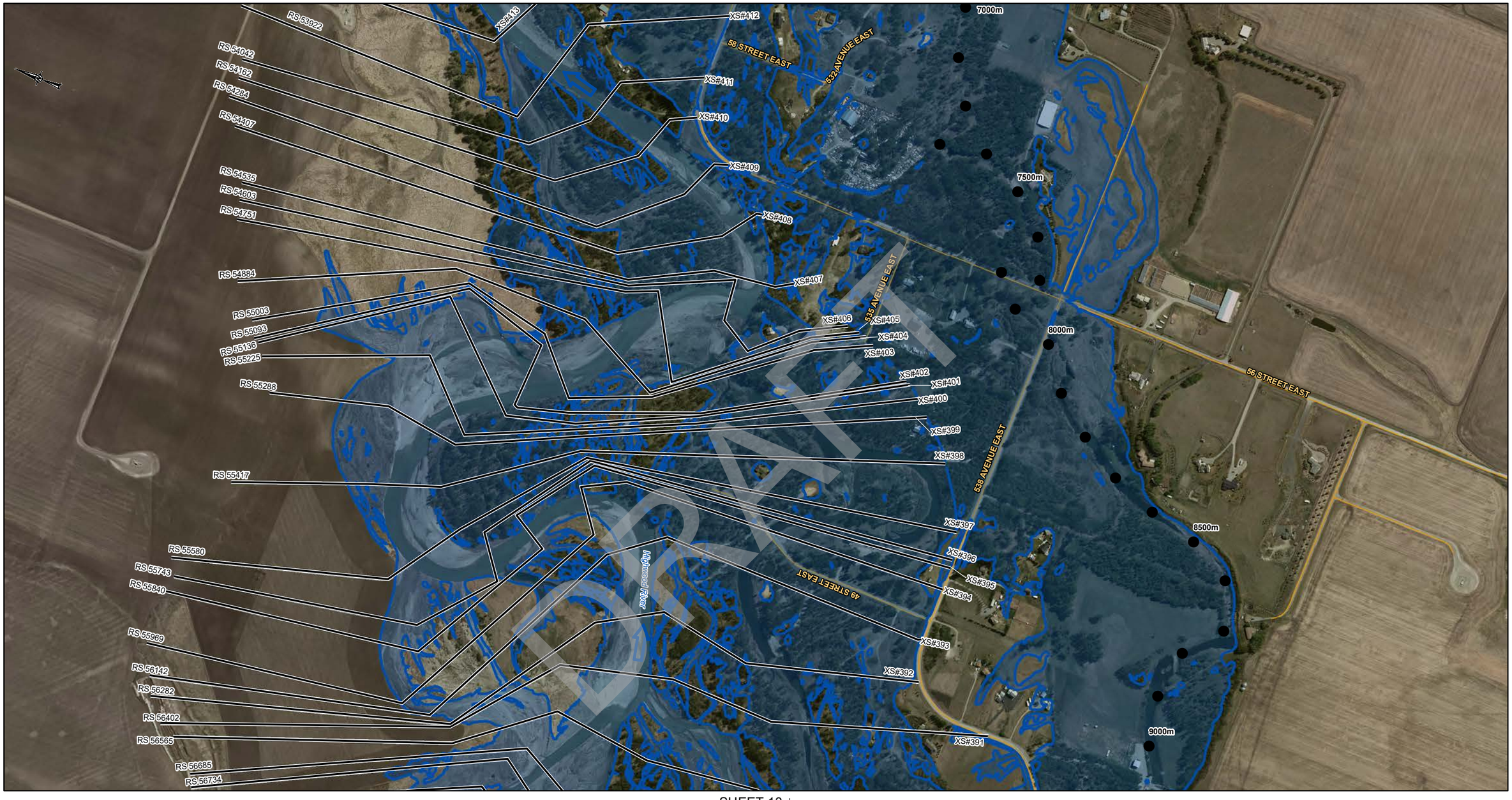
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25mm

0

Classification: Public

SHEET 15 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

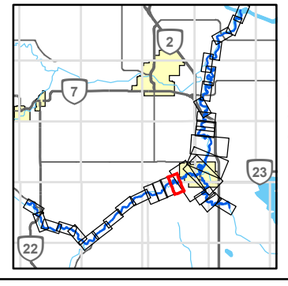
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S

SHEET 13 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

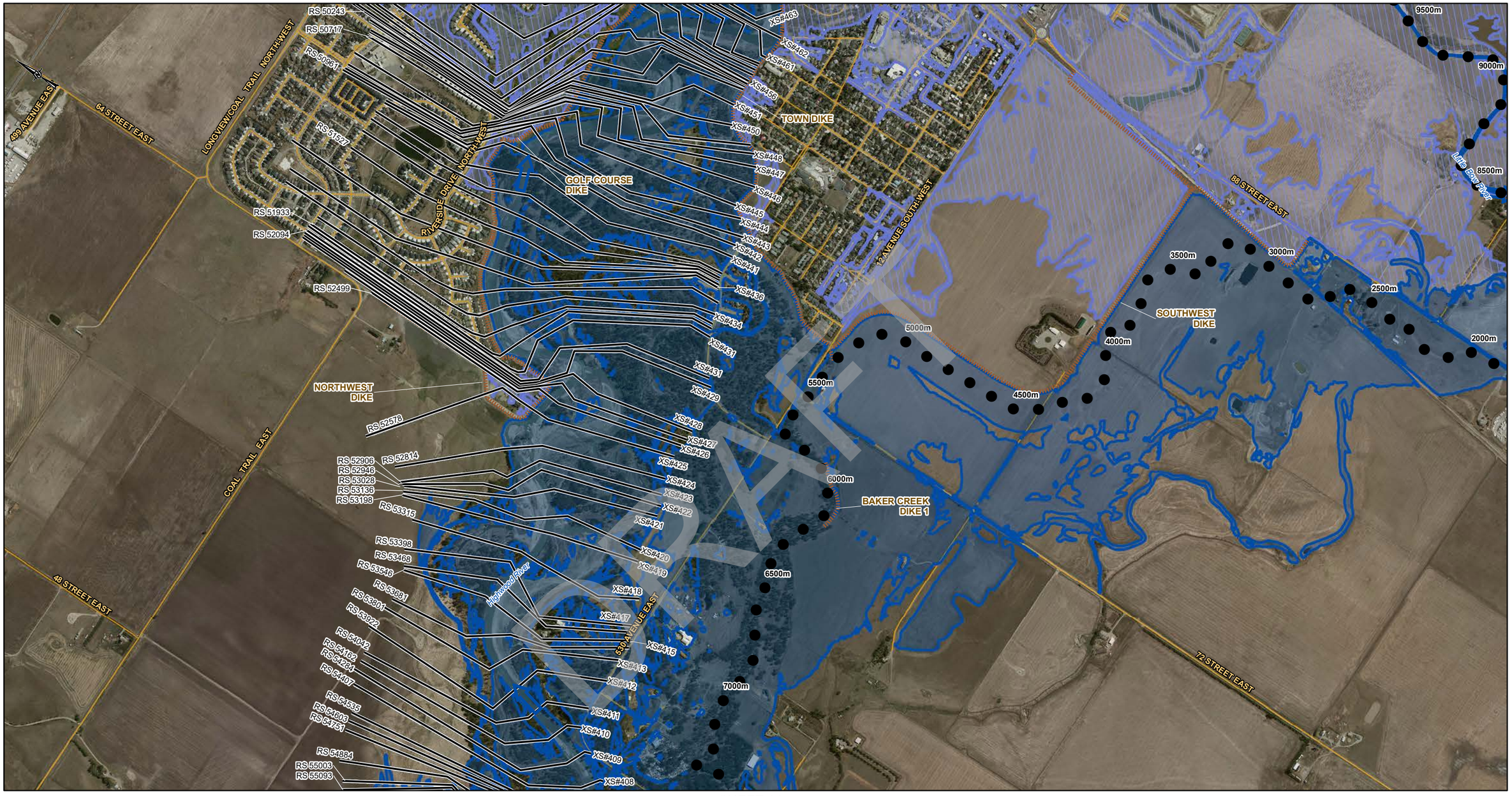
25mm

Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

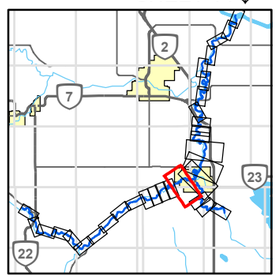
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S



0 250 500

1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

DRAFT

Classification: Public

SHEET 17 ↑

SHEET 30 ↓

SHEET 15 ↓

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RS 42817
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Highwood River
Little Bow Canal

5TH STREET DIKE
LITTLE BOW CANAL DIKE
LINEHAM CANAL DIKE
GOLF COURSE DIKE
TOWN DIKE

LINEHAM PEDESTRIAN BRIDGE
LINEHAM BRIDGE
HAPPY TRAILS BRIDGE
CENTRE STREET BRIDGE
5TH STREET SE BRIDGE
12 AVENUE CULVERT
FLOOD GATES

HIGH COUNTRY DRIVE NORTH-WEST
RIVERSIDE DRIVE NORTH-WEST
MONTEITH DRIVE SOUTH-EAST
HAMPSHIRE VALLEY NORTH-EAST
SUNSHINE TRAIL SOUTH-EAST
121 STREET EAST
21 STREET SOUTH-EAST
7 AVENUE SOUTH-EAST
20 STREET SOUTH-EAST
2 AVENUE SOUTH-EAST
9 AVENUE SOUTH-EAST
4A STREET SOUTH-EAST
6 STREET SOUTH-EAST
6 AVENUE SOUTH-EAST
9 STREET SOUTH-EAST
11 AVENUE SOUTH-EAST
3 AVENUE SOUTH-EAST
10 AVENUE SOUTH-EAST
Lineham Ave
404 STREET EAST

12500m
12000m
11500m
11000m
10500m
10000m
9500m

CULVERT TO RESIDENCE IN NE 36-18-29-4
CULVERT TO RESIDENCE IN SE 36-18-29-4

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

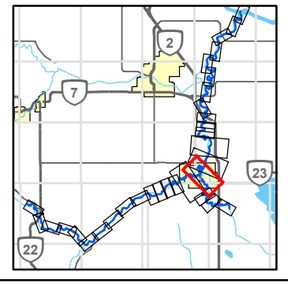
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S



0 250 500
1:15000 METRES

REFERENCE(S)

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 18 ↑


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SHEET 19 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

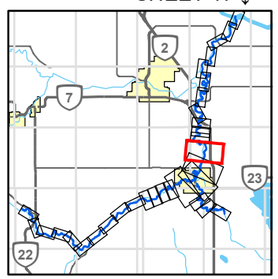
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2035y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

SHEET 20 ↑



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SHEET 18 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

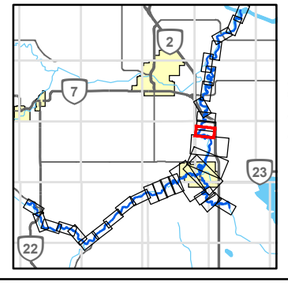
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S



0 250 500
1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2035yrInundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET 21 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

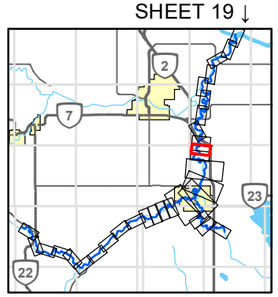
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
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REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 22 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

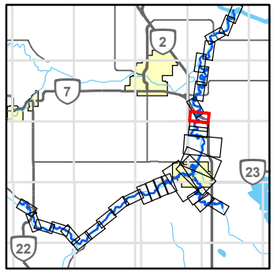
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2035yr_Inundation_Rev0.mxd

Classification: Public



SHEET 21 ↑

SHEET 23 ↓

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

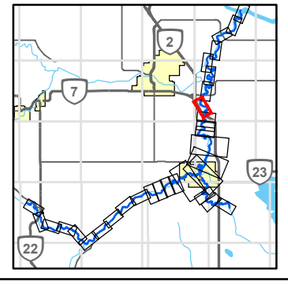
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S



0 250 500

1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

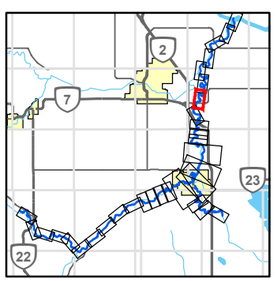
- CULVERT
- WEIR
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35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
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- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

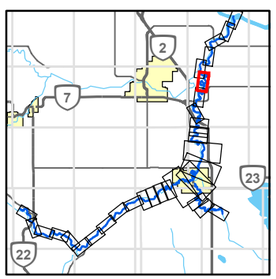
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

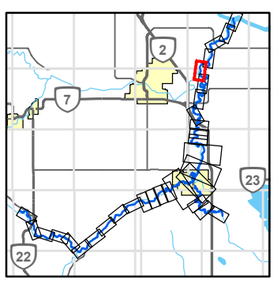
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 572 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1085 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 25 ↑

SHEET 27 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

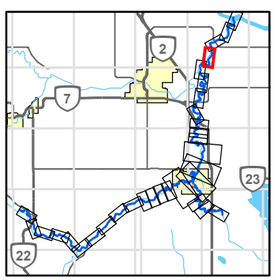
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1085 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

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25mm
0

Classification: Public

SHEET 26 ↑

SHEET 28 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

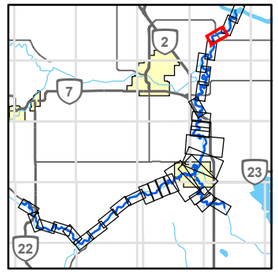
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1085 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 27 ↑

SHEET 29 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

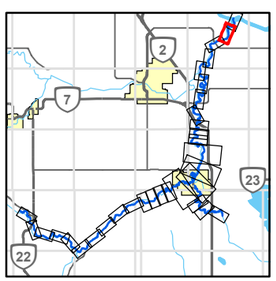
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1085 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

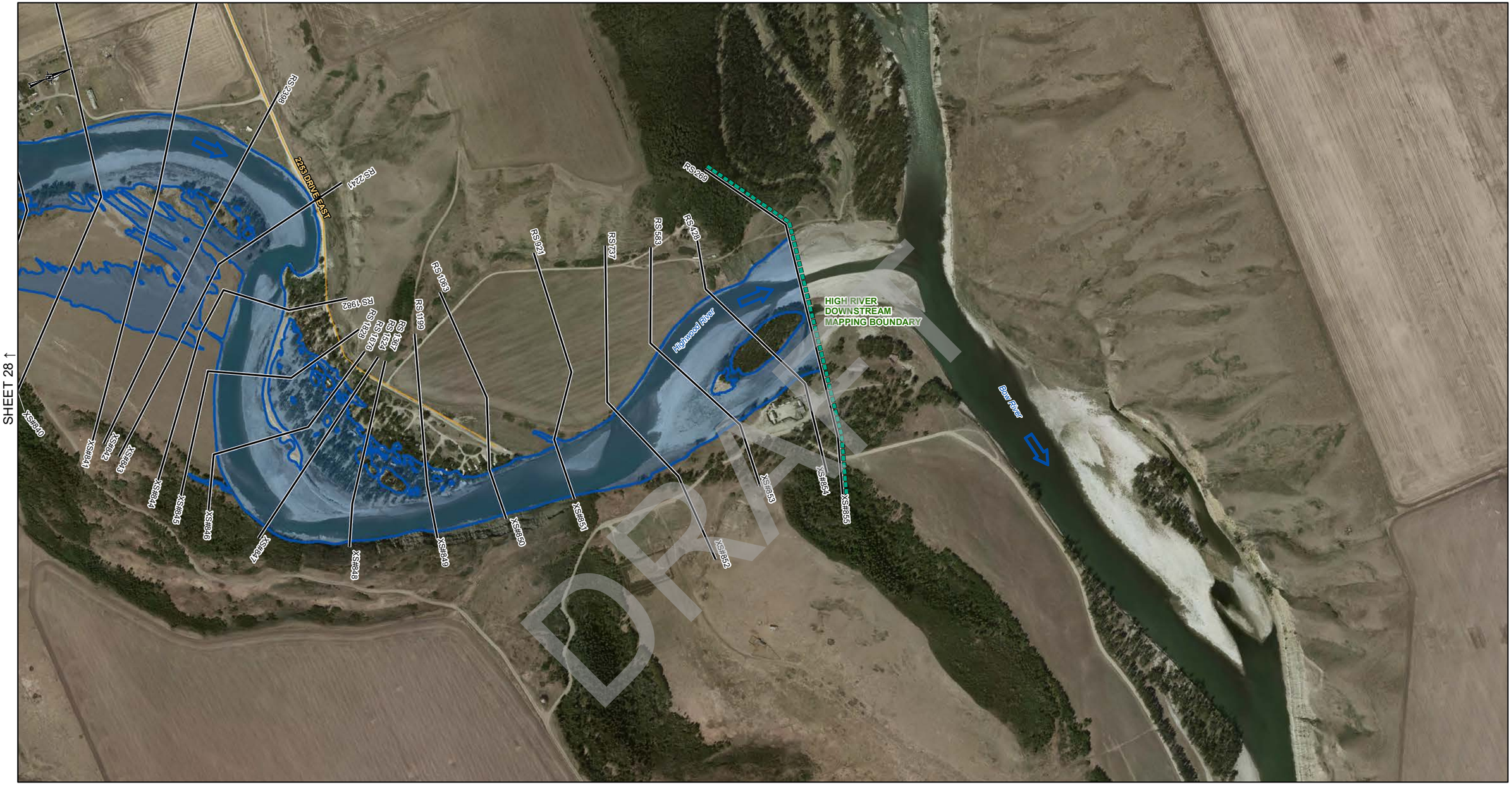
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Classification: Public

SHEET 28 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

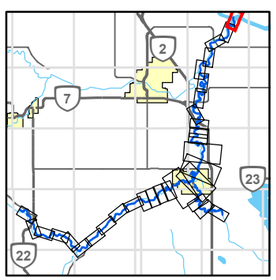
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1085 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

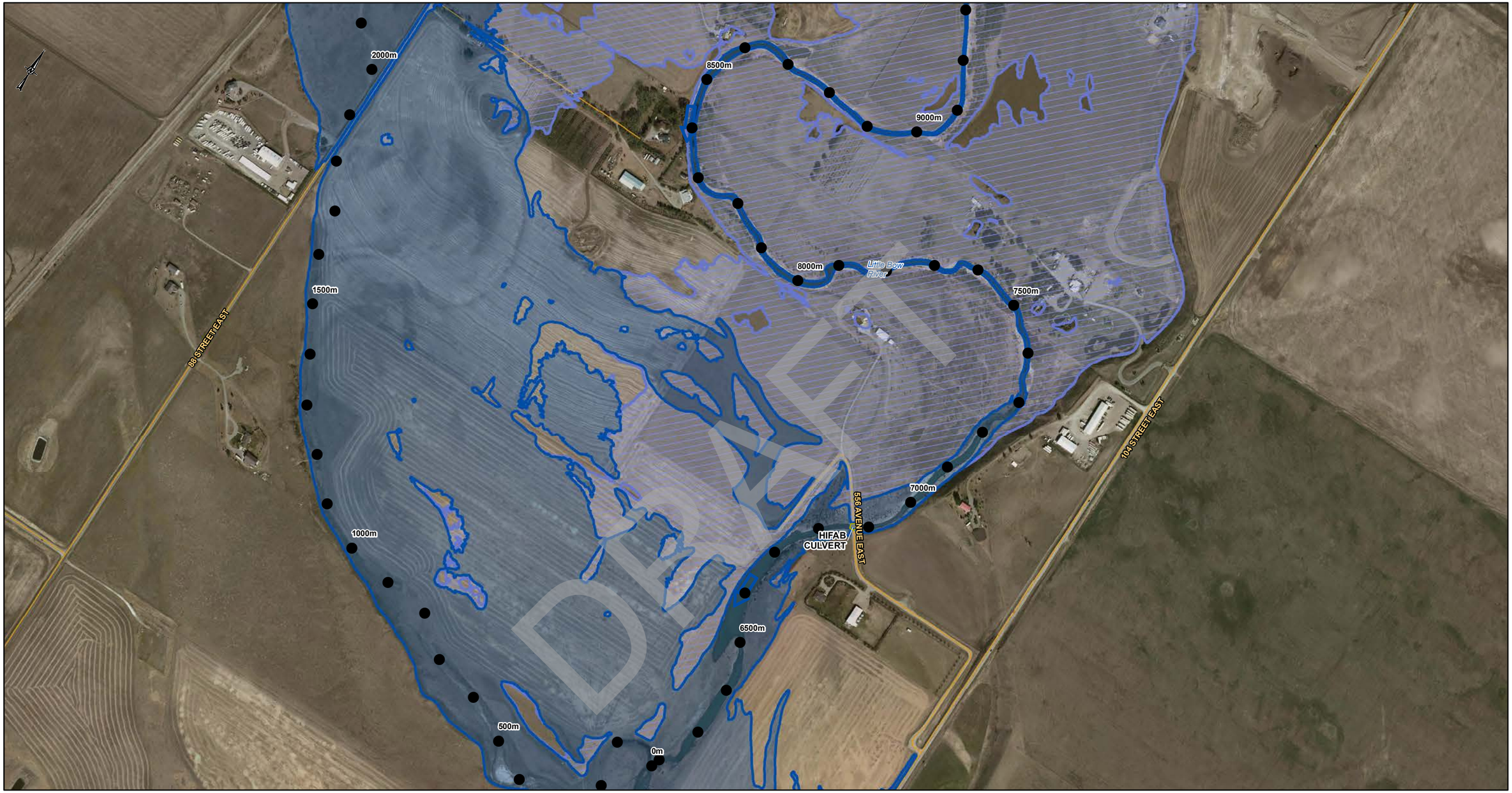
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Classification: Public

SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

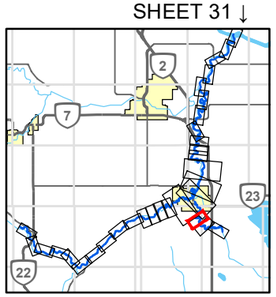
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 122 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

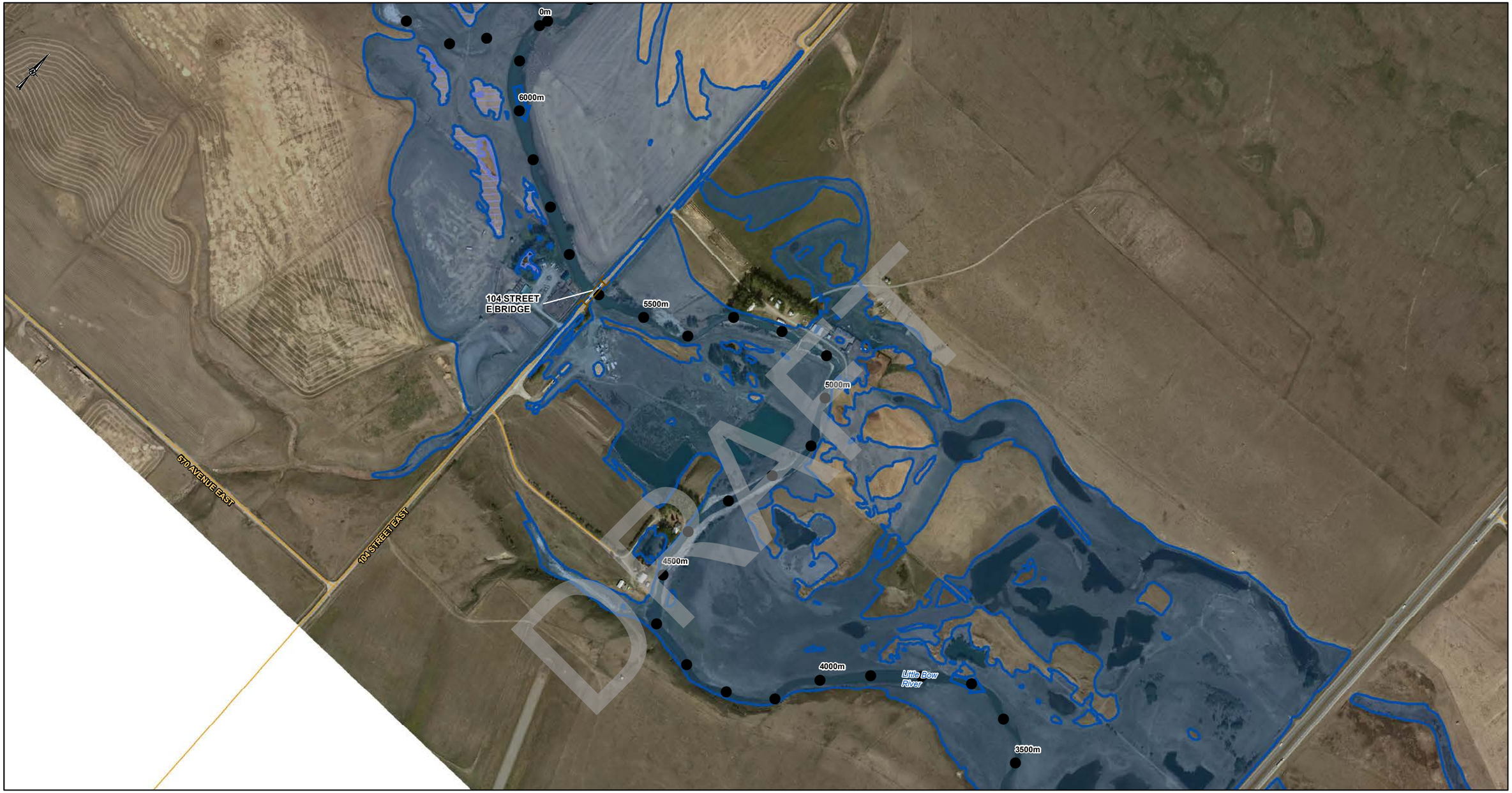
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Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

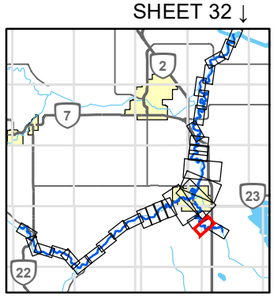
35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 122 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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CONSULTANT

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MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

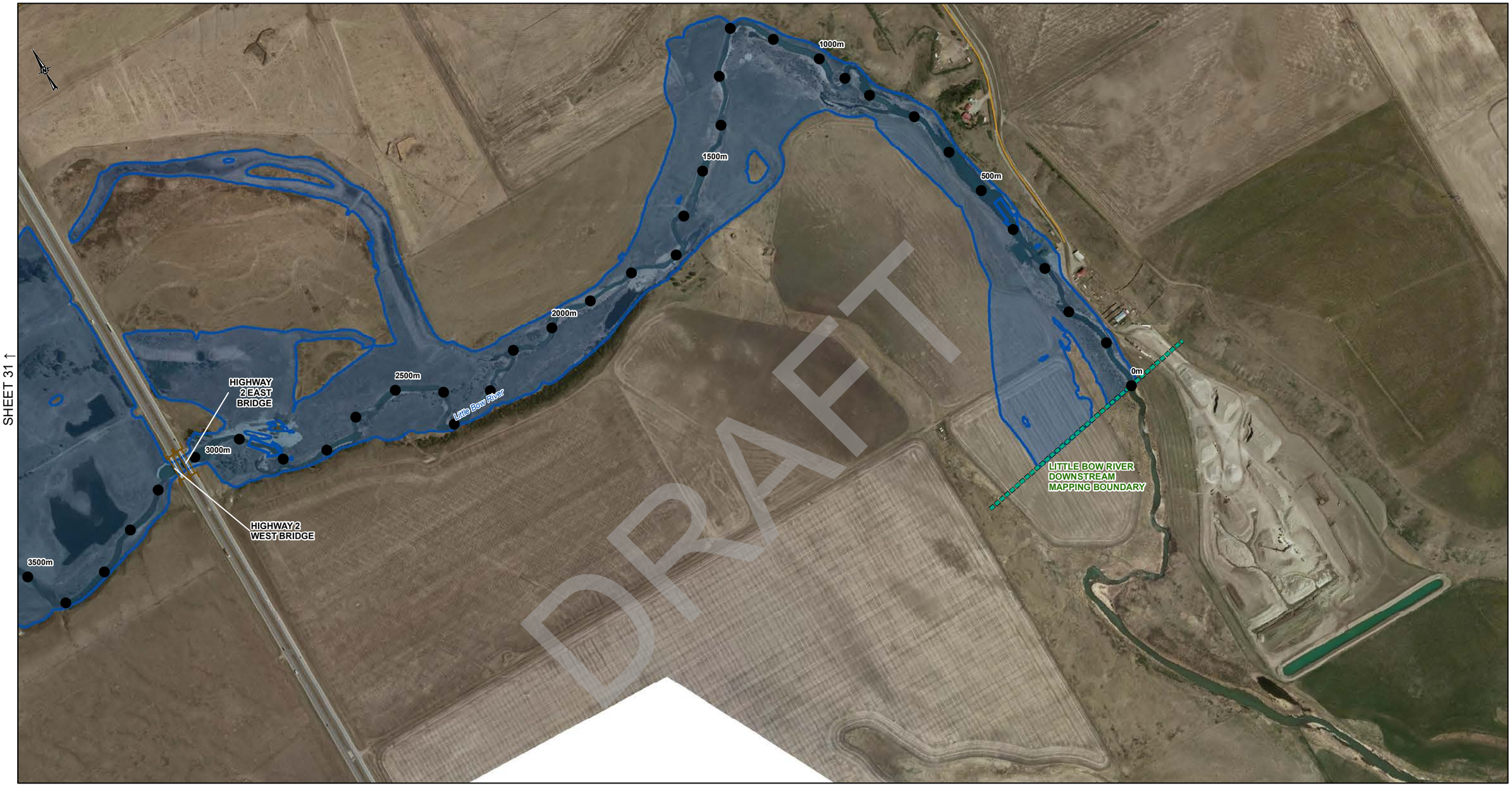
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Classification: Public



SHEET 31 ↑

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

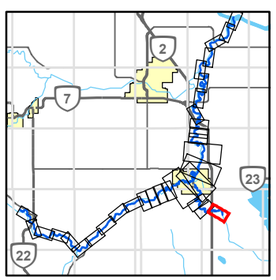
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 122 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)
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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

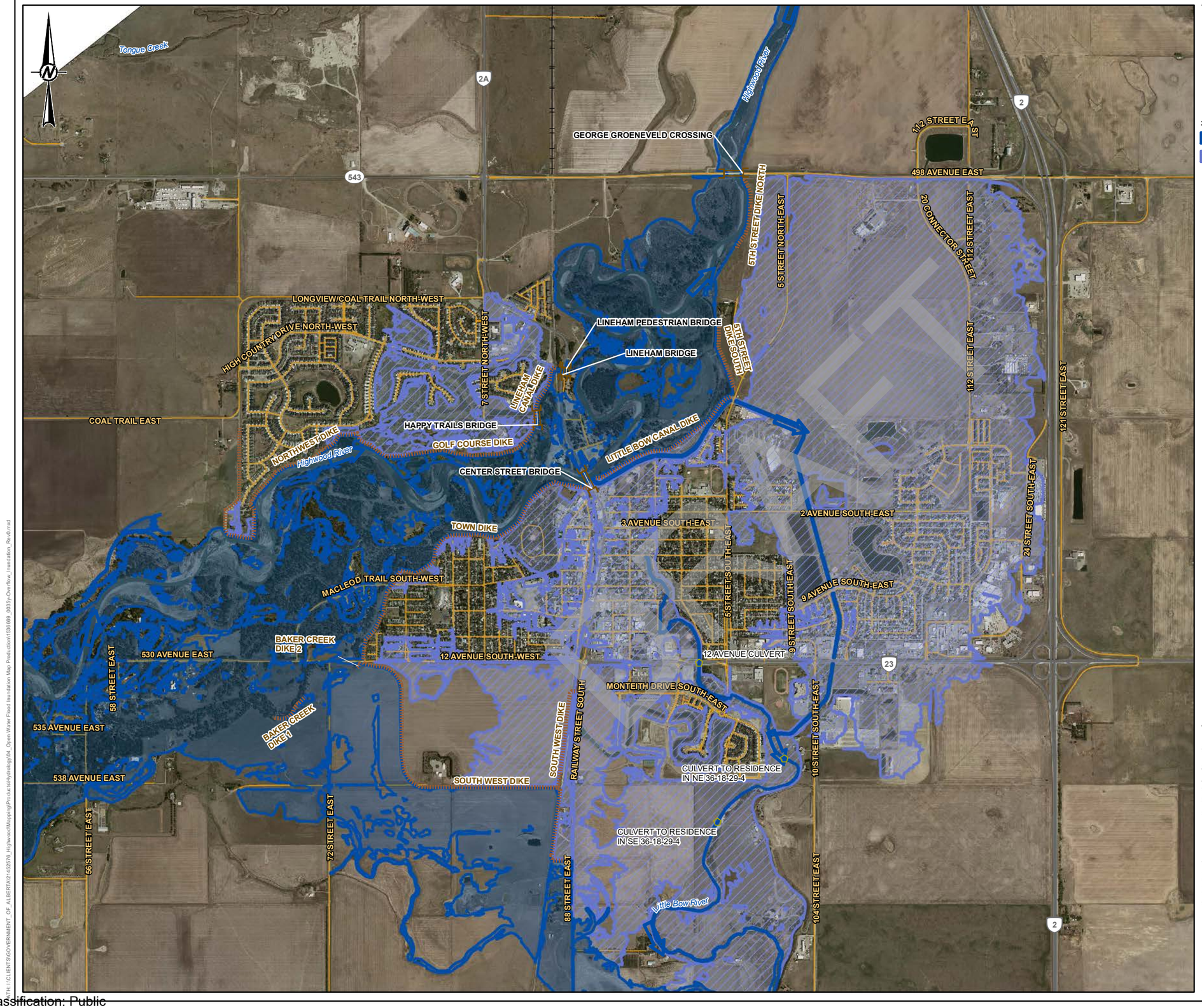
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Classification: Public



LEGEND

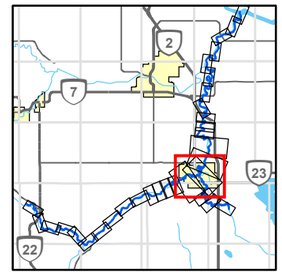
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

- 35-YEAR FLOOD EXTENT
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

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Classification: Public

50-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

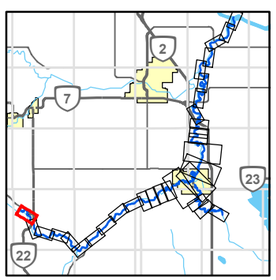
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

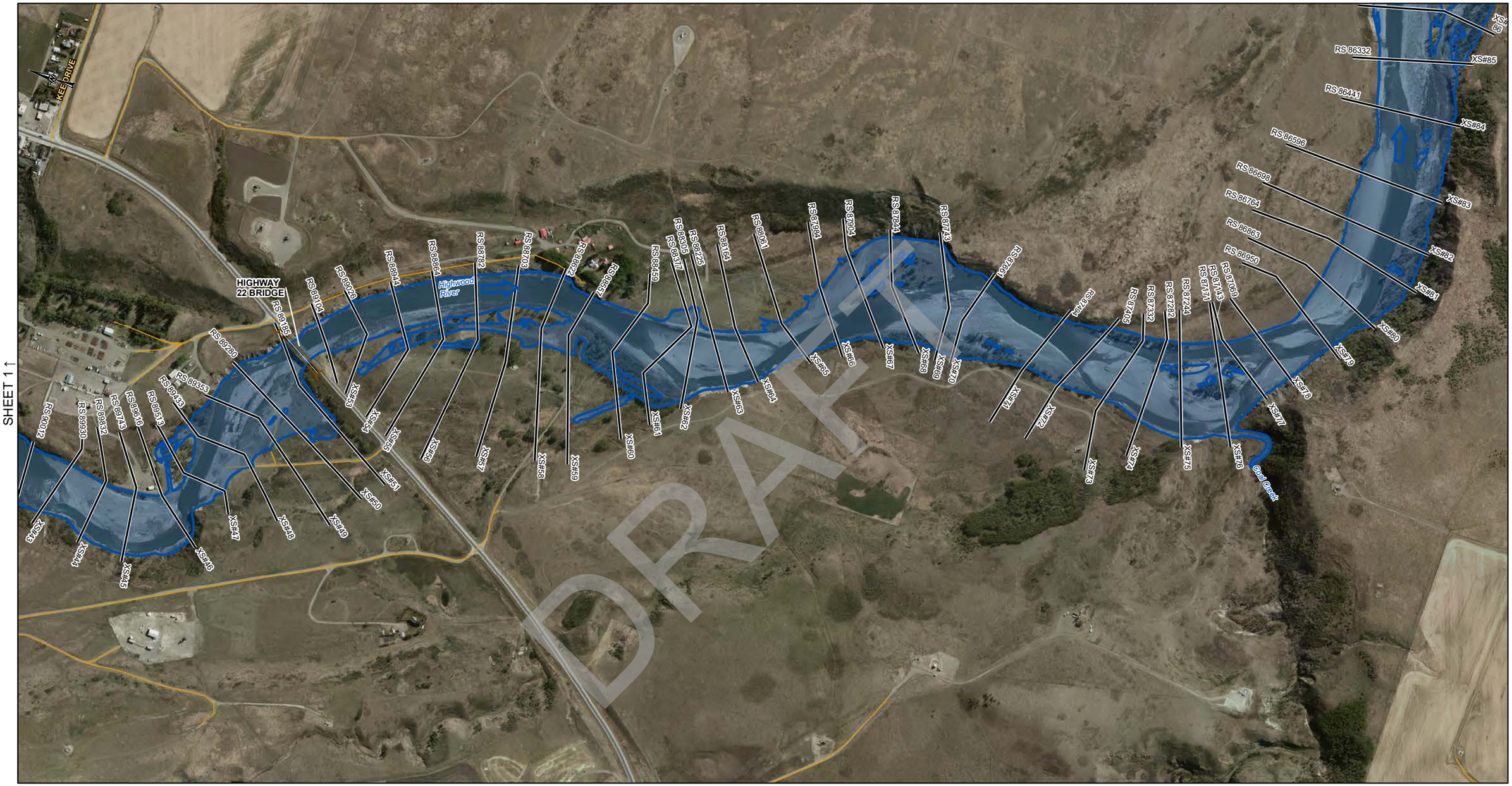
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

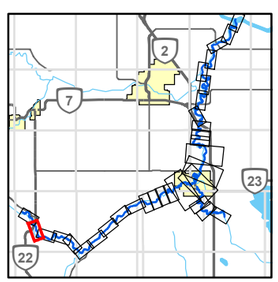
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

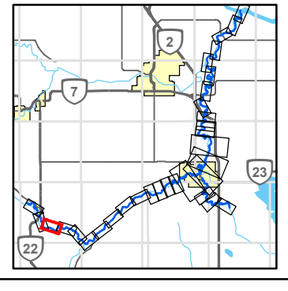
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

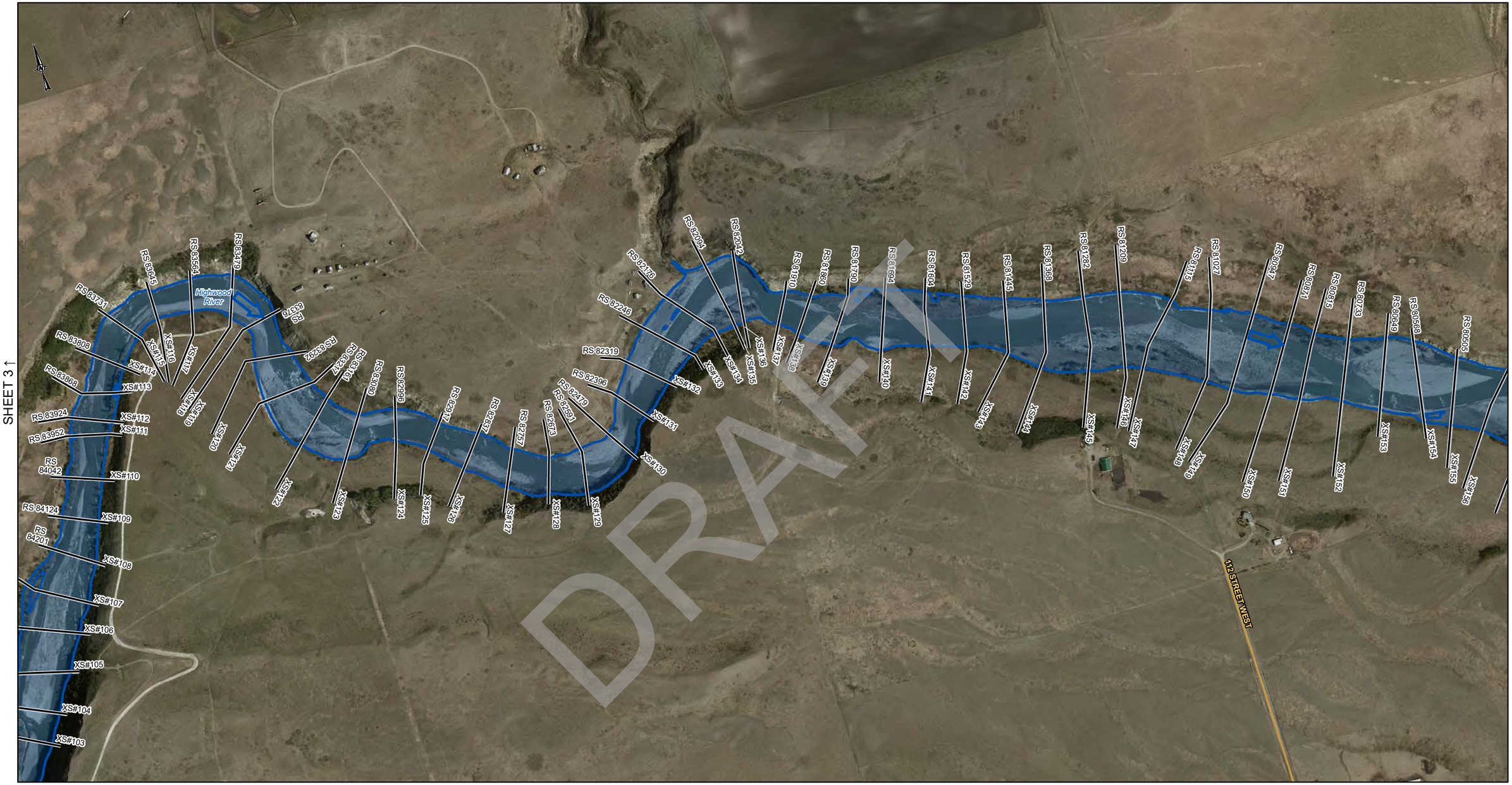
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25mm
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Classification: Public

SHEET 3 ↑

SHEET 5 ↓



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LEGEND

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- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

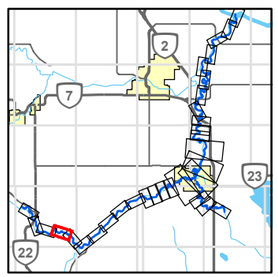
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

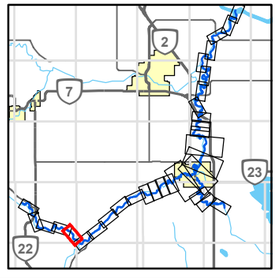
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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25mm

0

Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

XS#184 XS#185 XS#186 XS#187 XS#188 XS#189 XS#190 XS#192 XS#193 XS#194 XS#195 XS#196 XS#197 XS#199 XS#200 XS#201 XS#202 XS#203 XS#204 XS#205 XS#206 XS#207 XS#208 XS#209 XS#210 XS#211 XS#212 XS#213 XS#214 XS#215 XS#216 XS#217 XS#218

RS78229 RS78142 RS78050 RS77962 RS77902 RS77821 RS77741 RS77660 RS77590 RS77499 RS77420 RS77344 RS77280 RS77168 RS77051 RS76999 RS76784 RS76669 RS76542 RS76418 RS76237 RS76119 RS76000 RS75982 RS75894 RS75853 RS75521 RS75416 RS75355 RS75109 RS74995 RS74874 RS74759 RS74632 RS74512

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

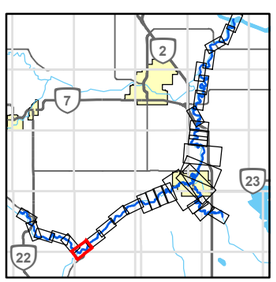
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

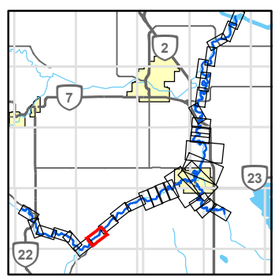
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

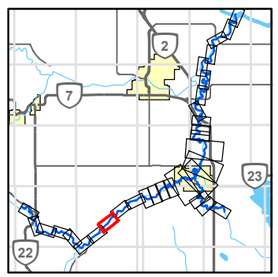
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

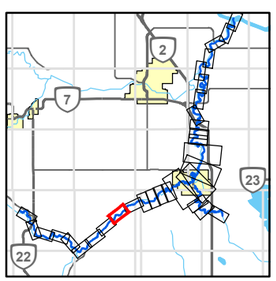
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

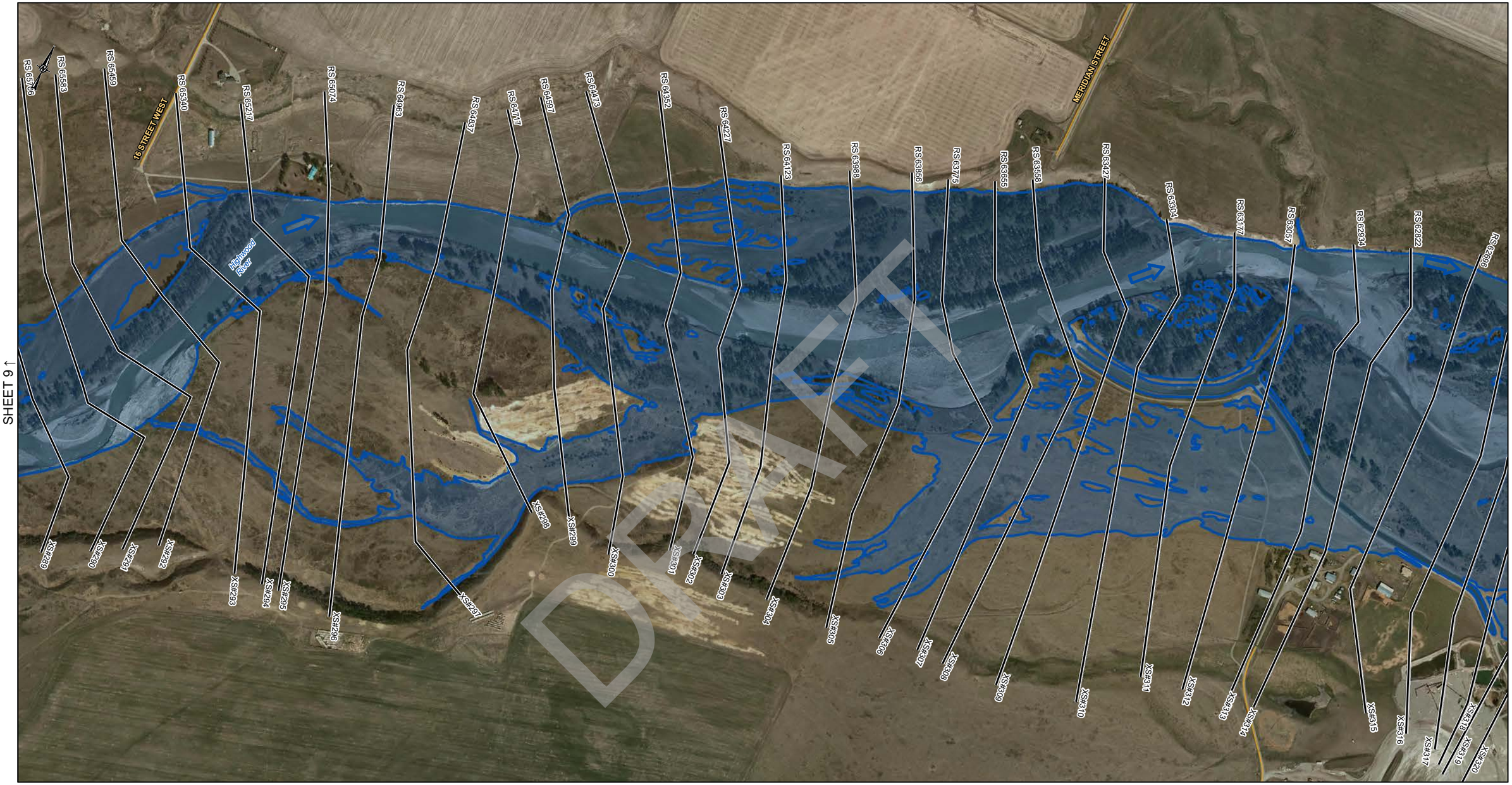
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25mm

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Classification: Public



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LEGEND

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- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
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- STUDY BOUNDARY
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

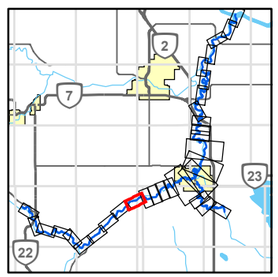
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

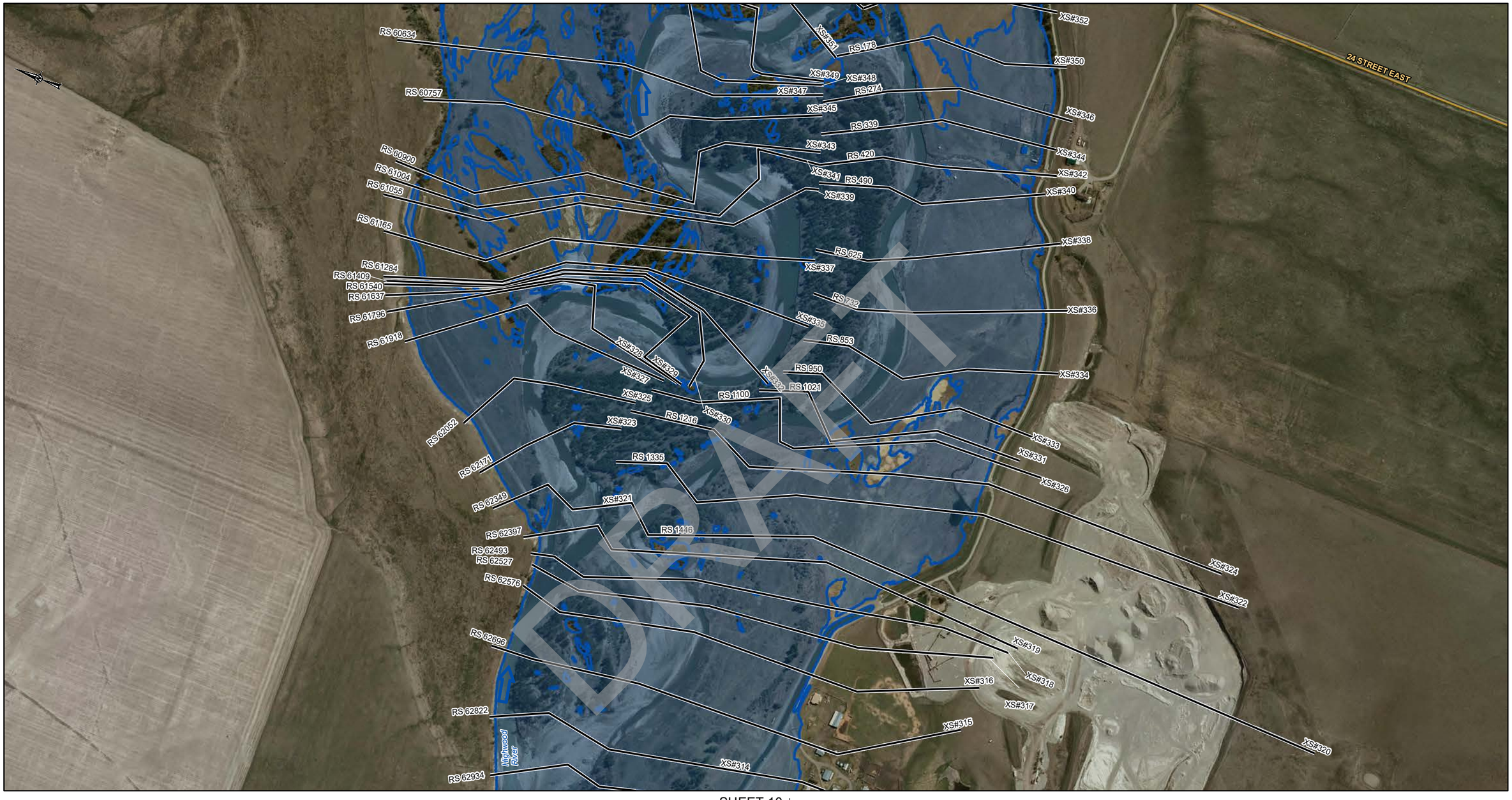
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
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- STUDY BOUNDARY
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- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

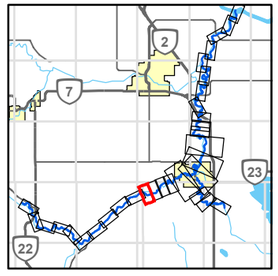
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 314 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 535 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd

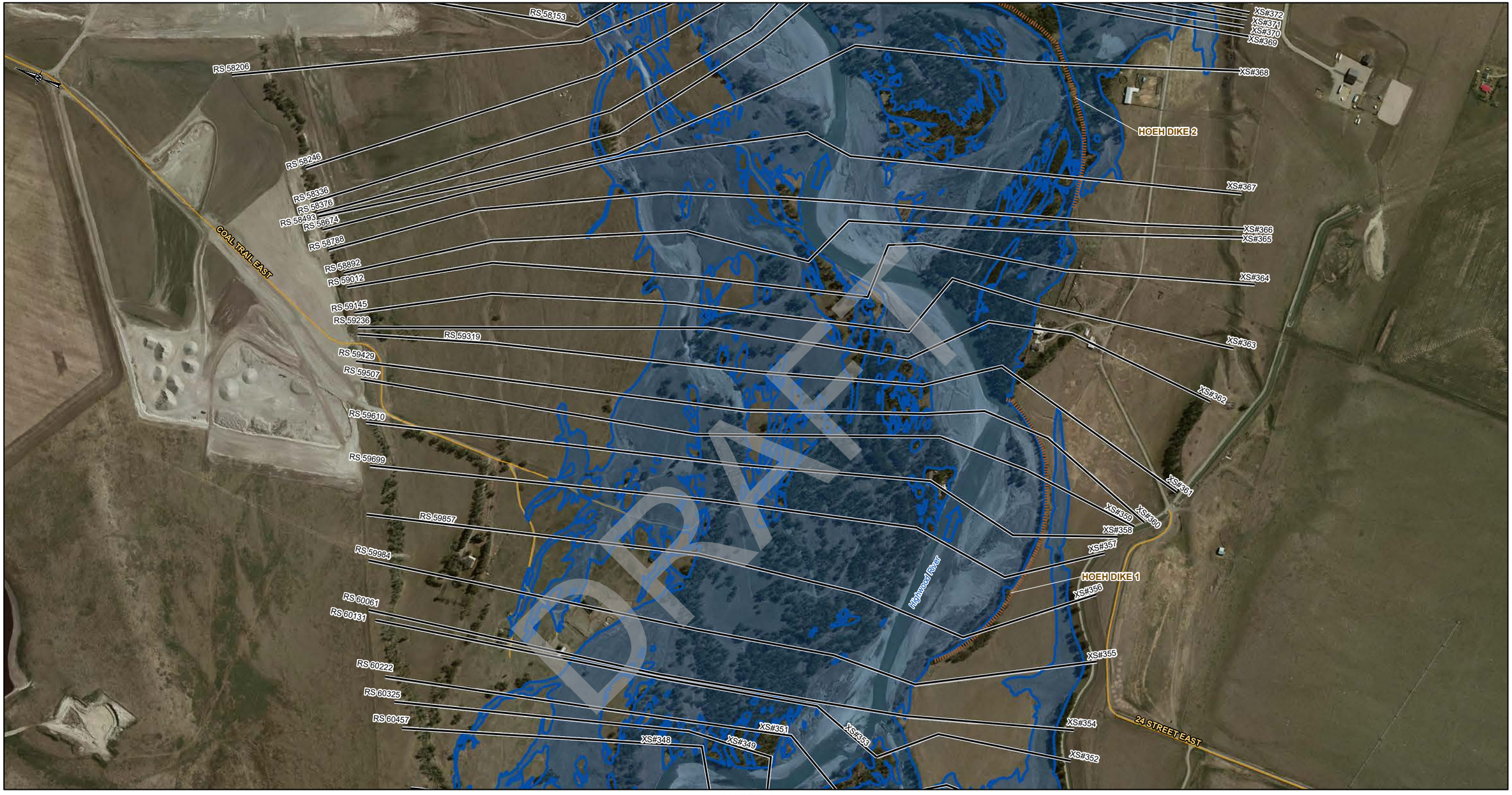
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25mm

0

Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

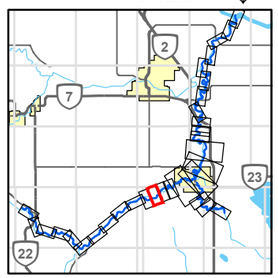
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

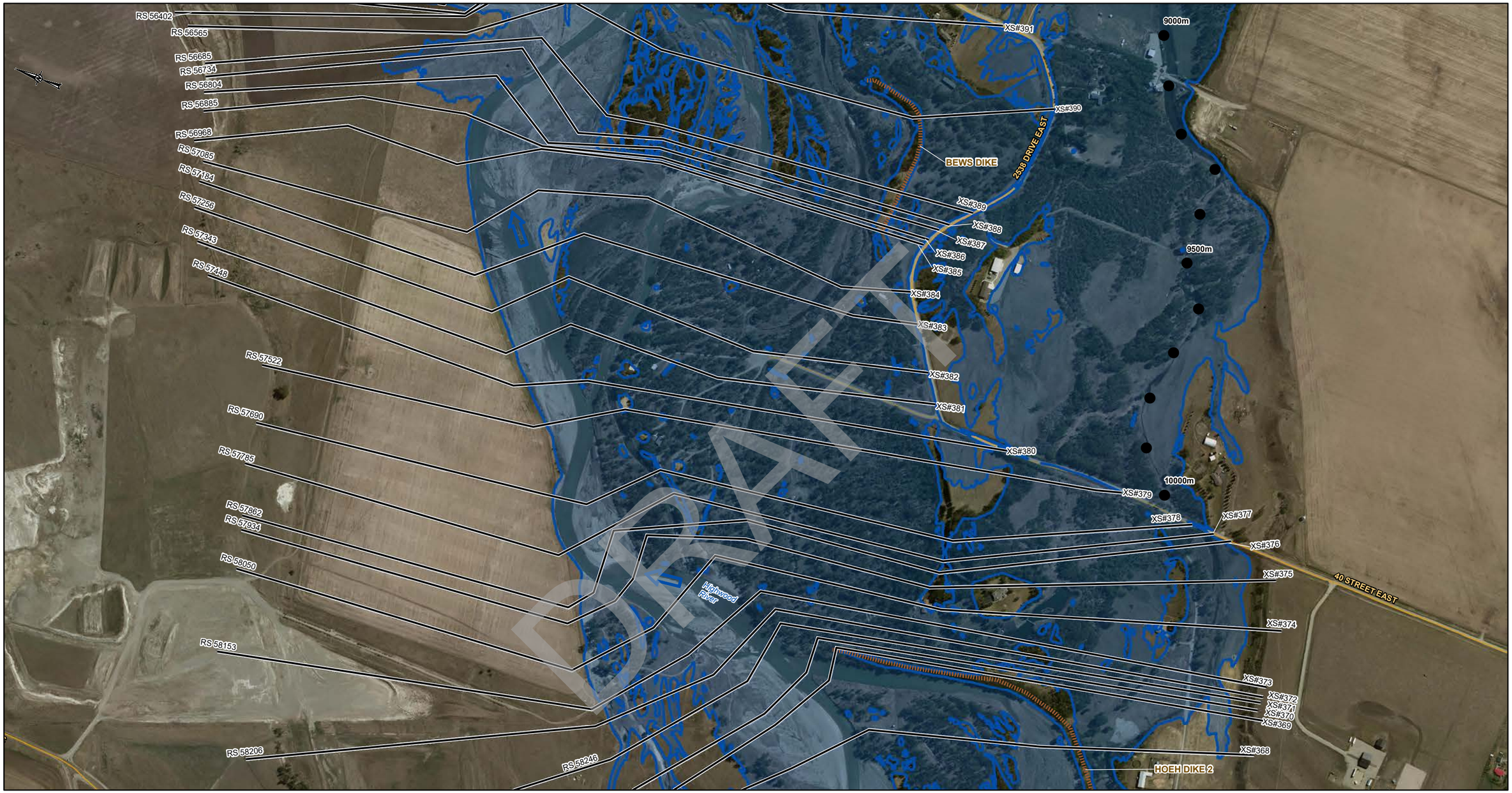
DRAFT

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25mm
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Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

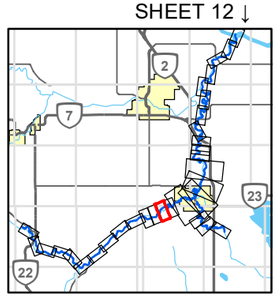
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

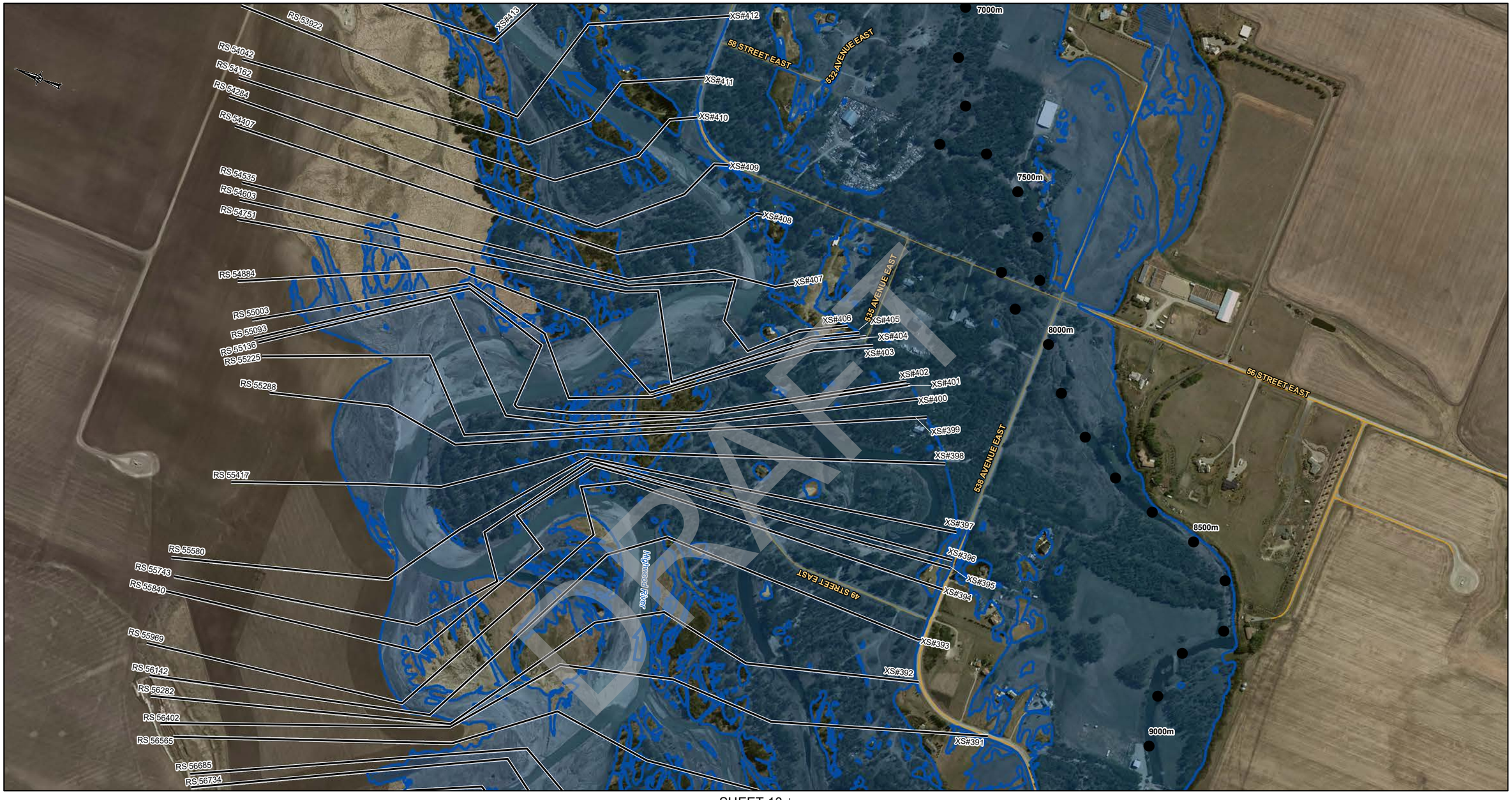
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25mm

Classification: Public

SHEET 15 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

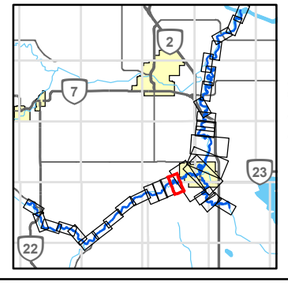
50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S

SHEET 13 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd

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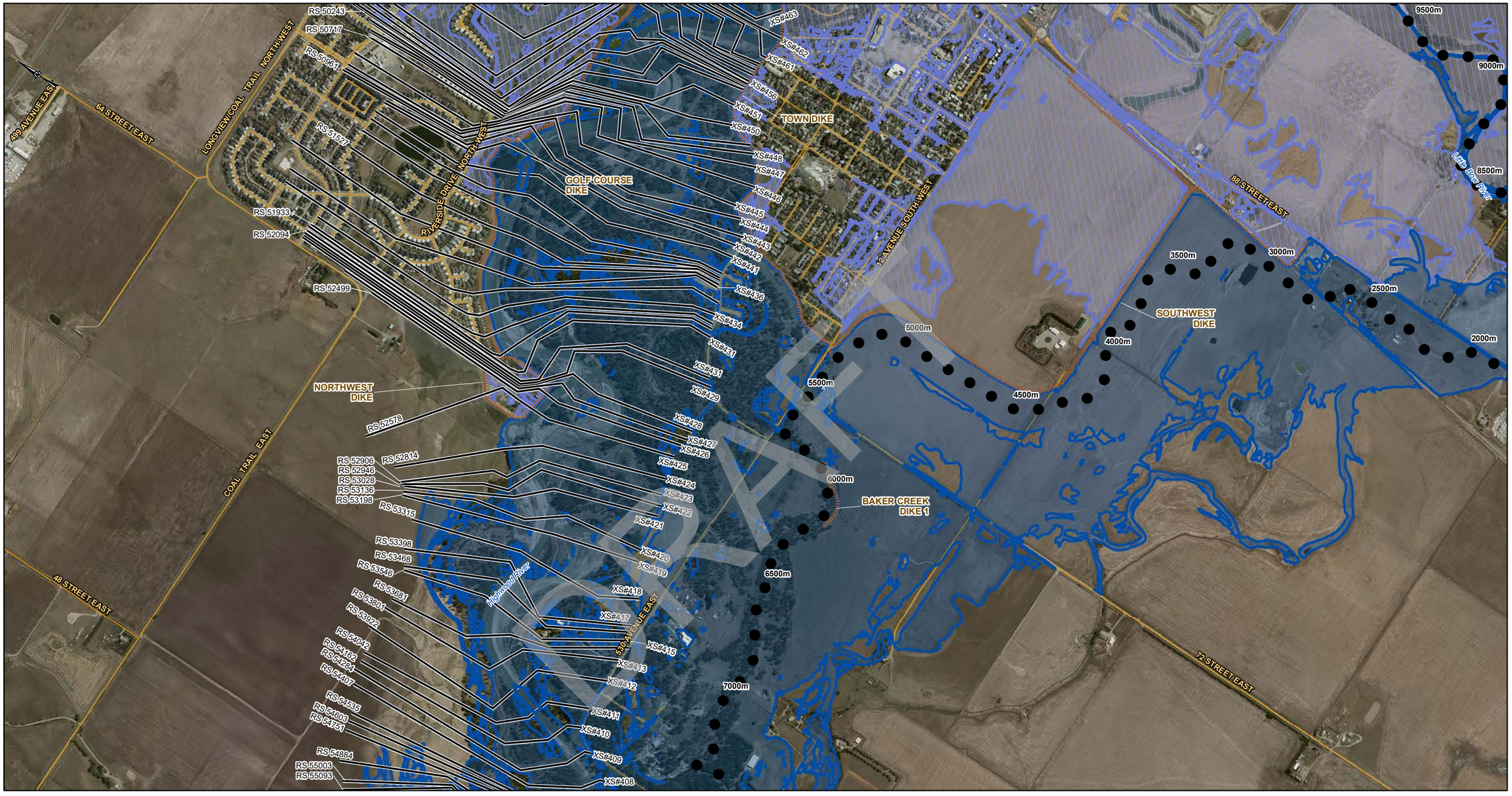
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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

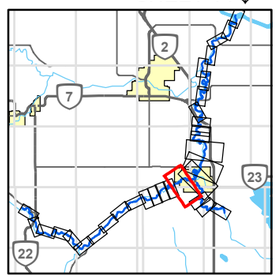
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

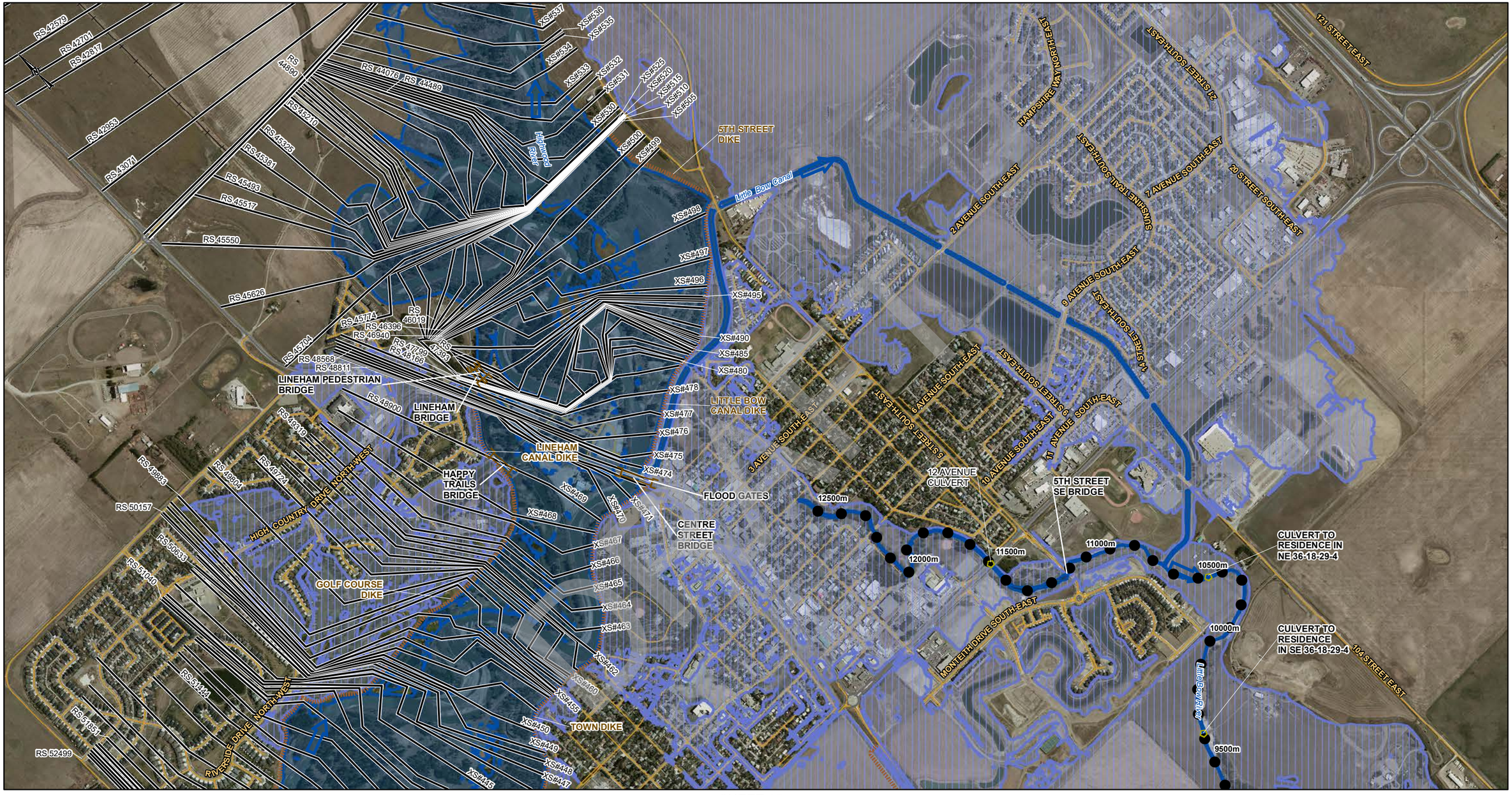
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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

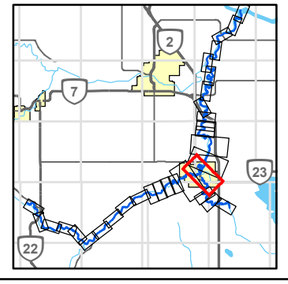
50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 849 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2050y-Inundation_Rev0.mxd

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Classification: Public

SHEET 18 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

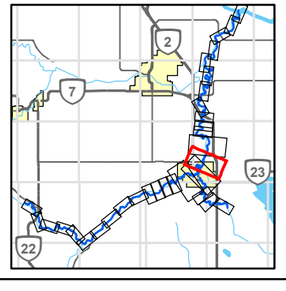
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S



0 250 500

1:15000 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 17 of 33

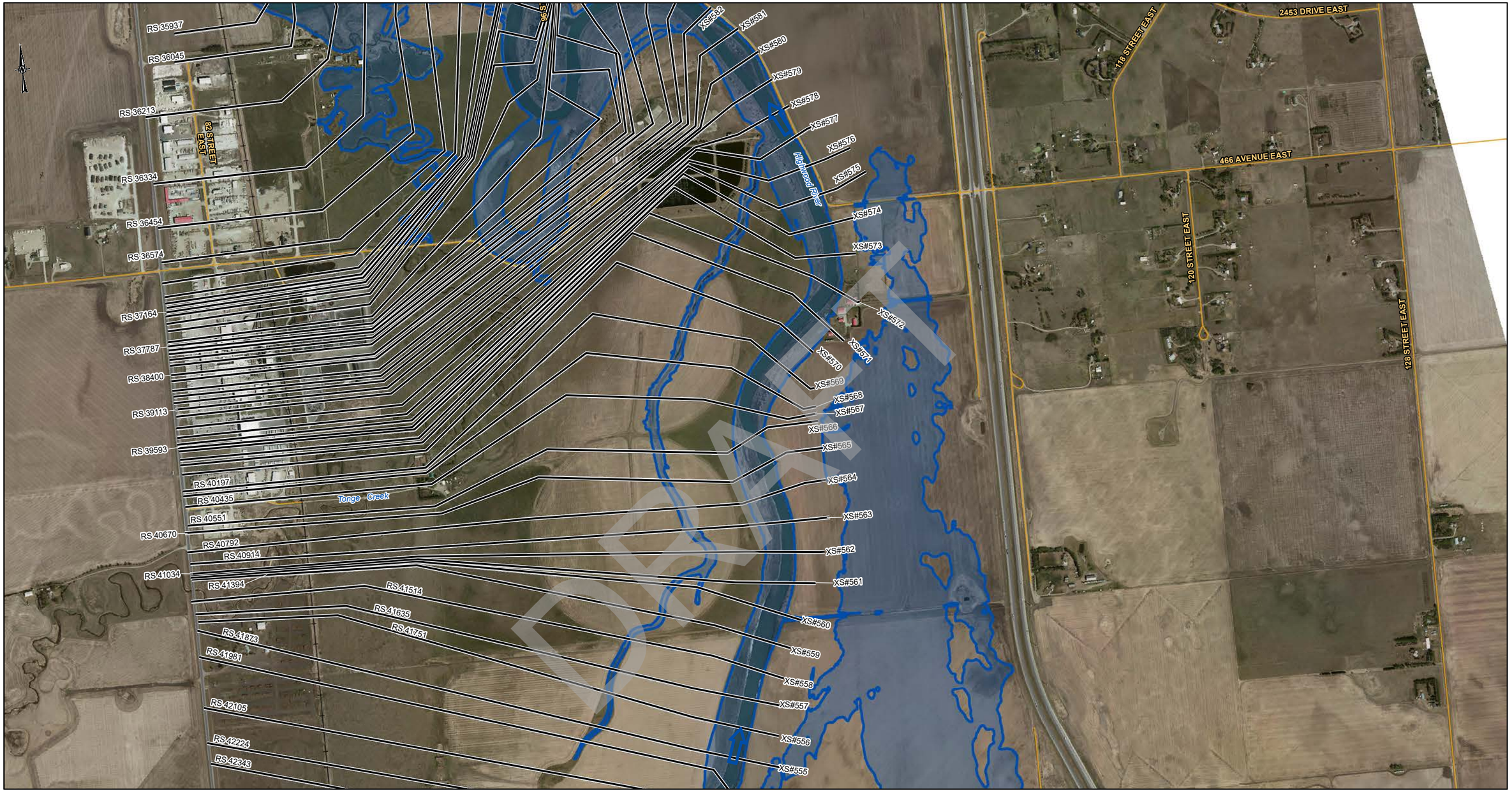
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 19 ↑



SHEET 17 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

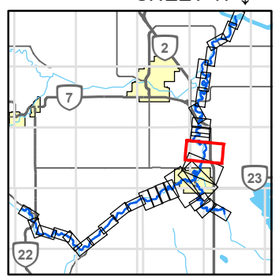
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

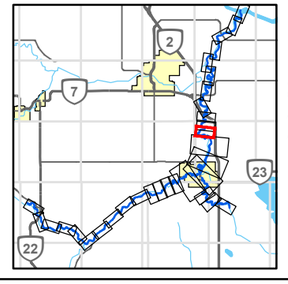
50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S

SHEET 18 ↓



0 250 500
1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B
25mm
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Classification: Public

SHEET 21 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

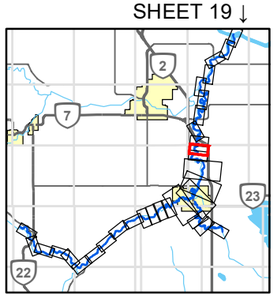
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0050y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

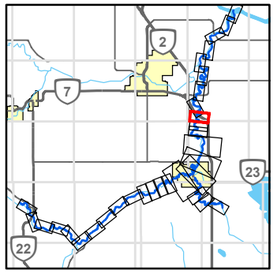
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0050y-Inundation_Rev0.mxd

Classification: Public

SHEET 21 ↑

SHEET 23 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

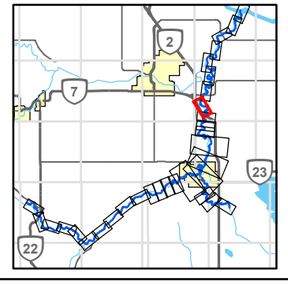
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

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Classification: Public



SHEET 22 ↑

SHEET 24 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

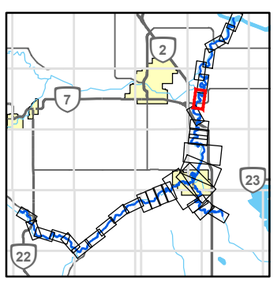
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

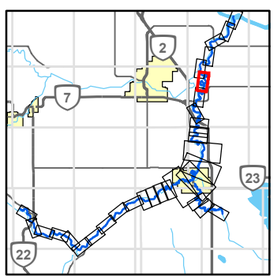
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

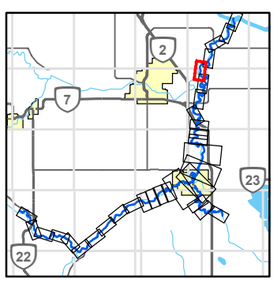
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 677 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1288 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

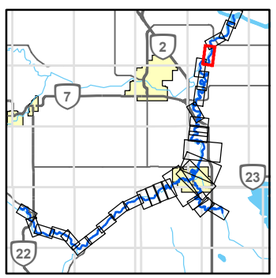
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1288 M^3/S



0 250 500
1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0
Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

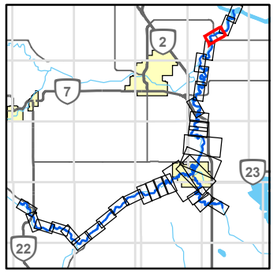
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1288 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

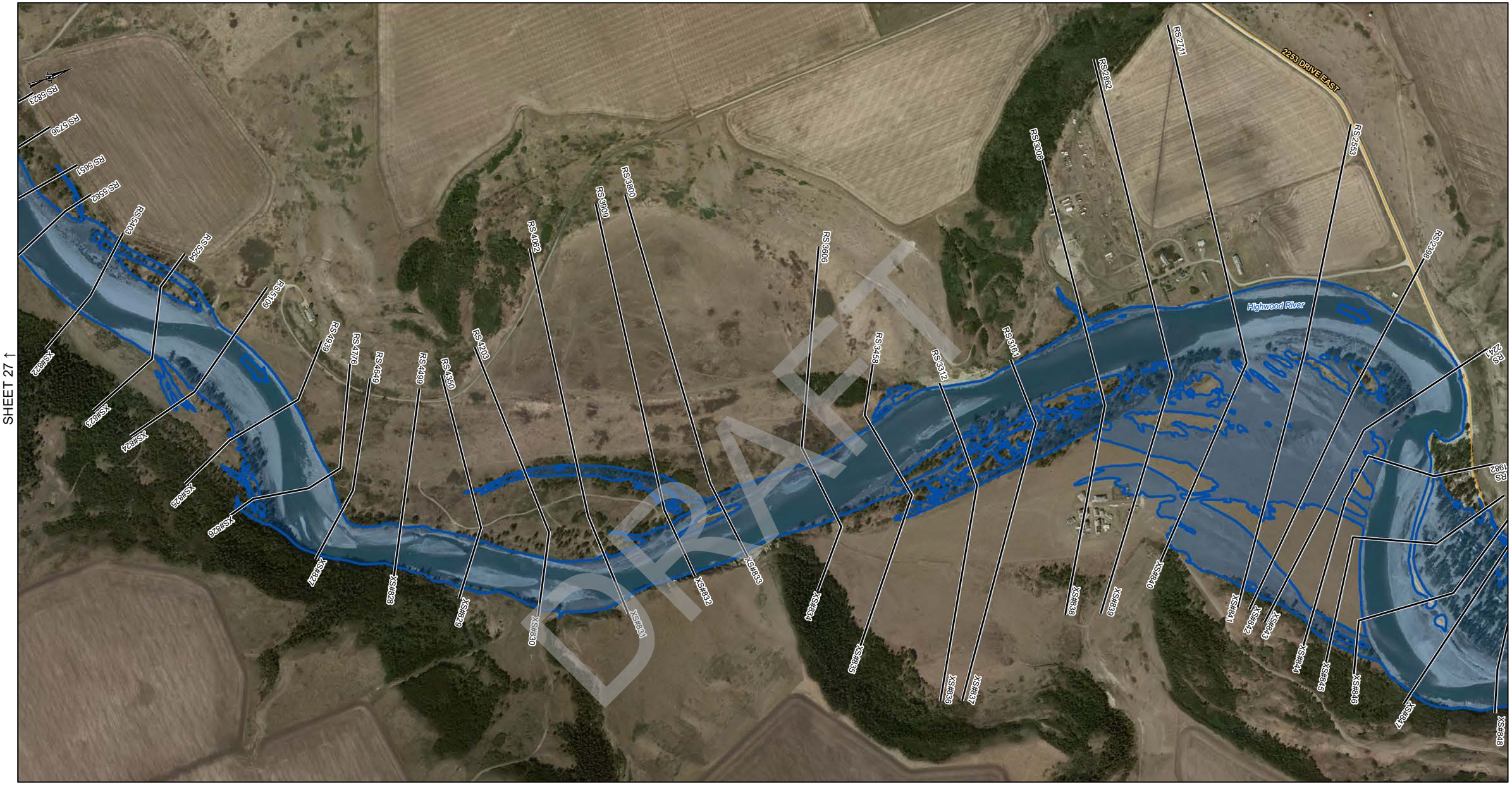
TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

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25mm
0

Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

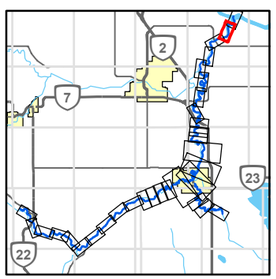
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1288 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

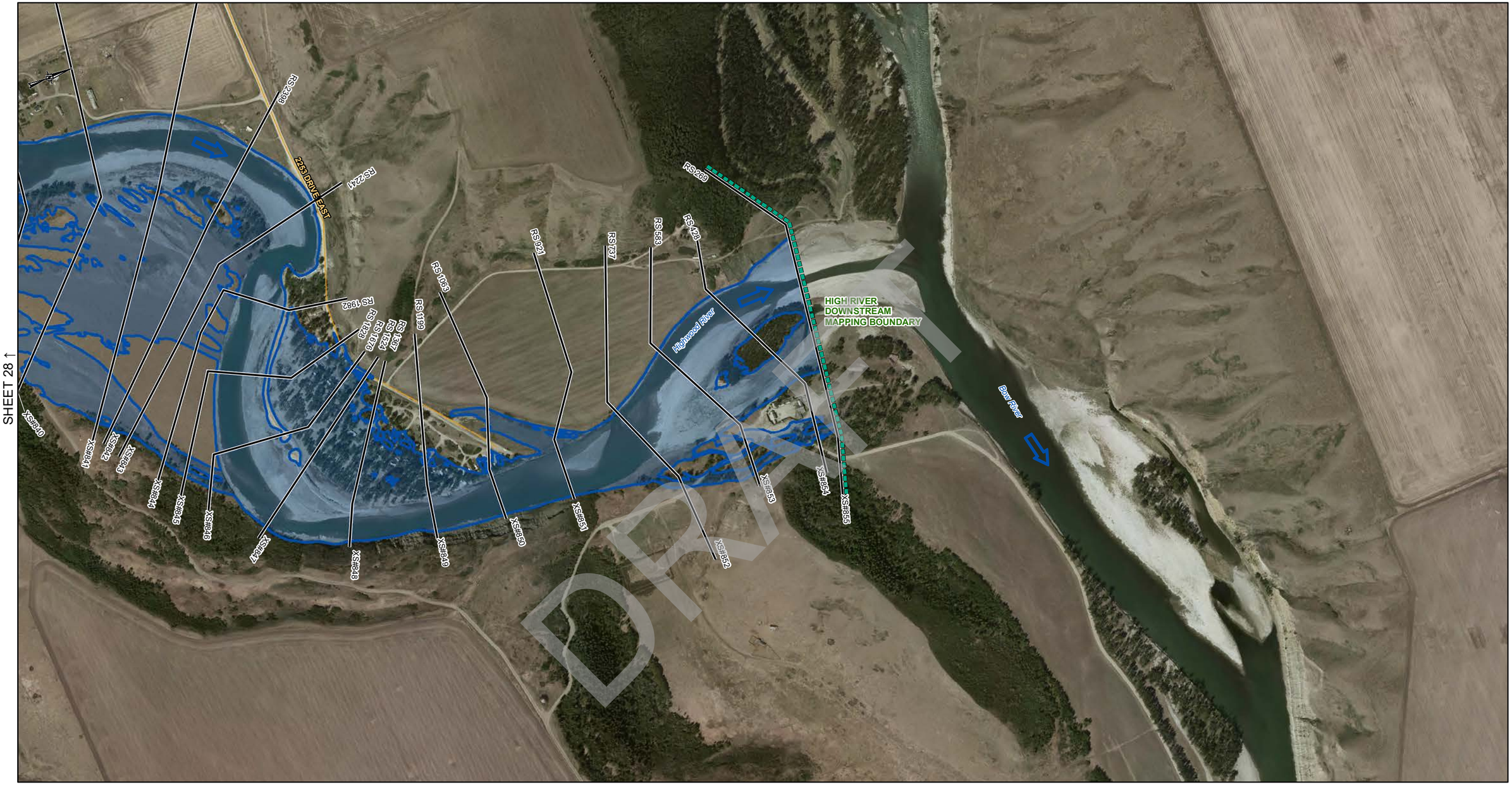
25mm

0

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Classification: Public

SHEET 28 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

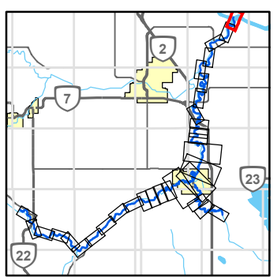
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1288 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

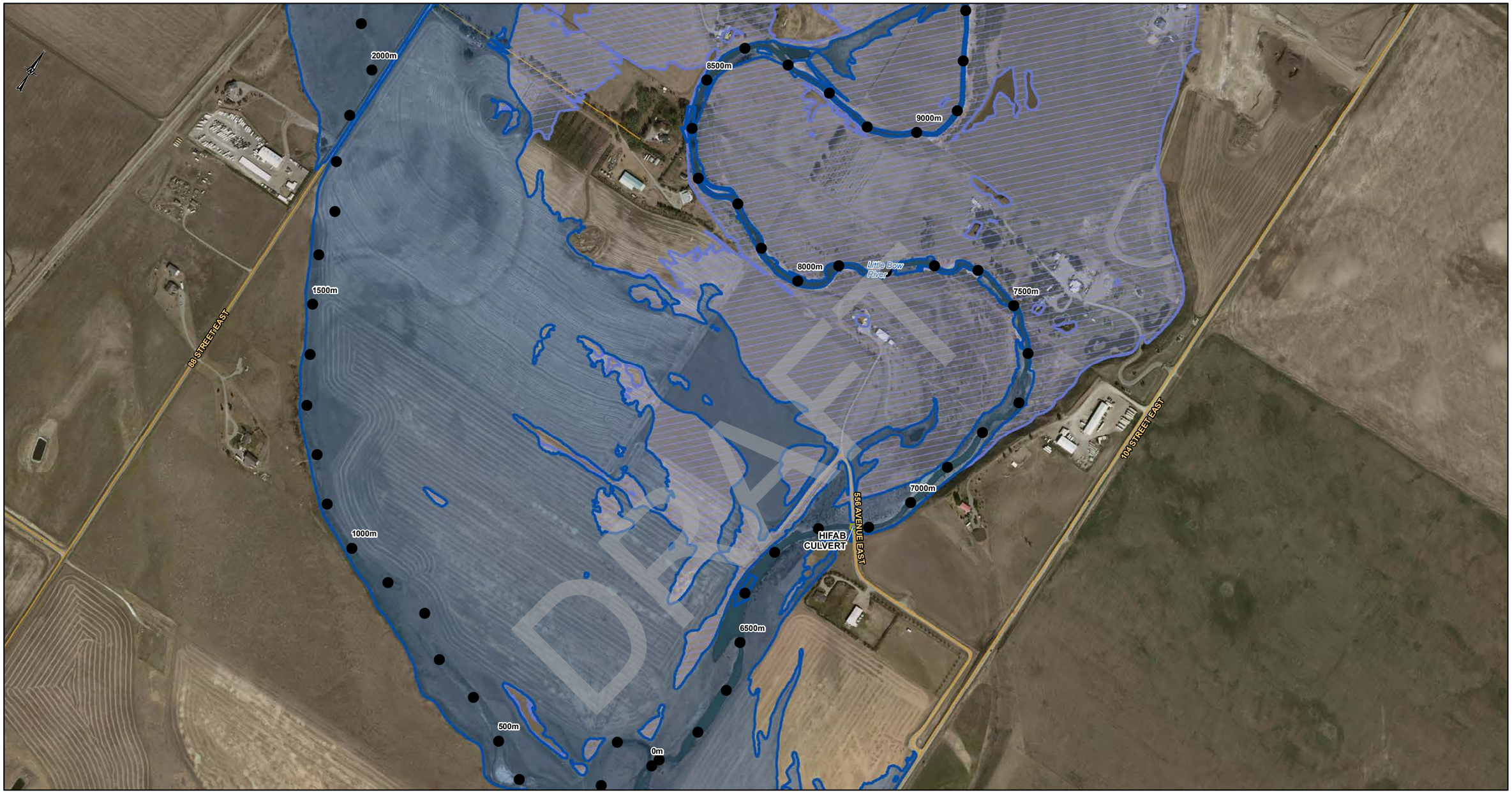
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

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Classification: Public

SHEET15 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

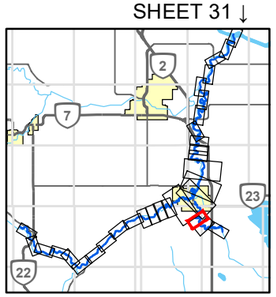
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 172 M^3/S

SHEET 31 ↓



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

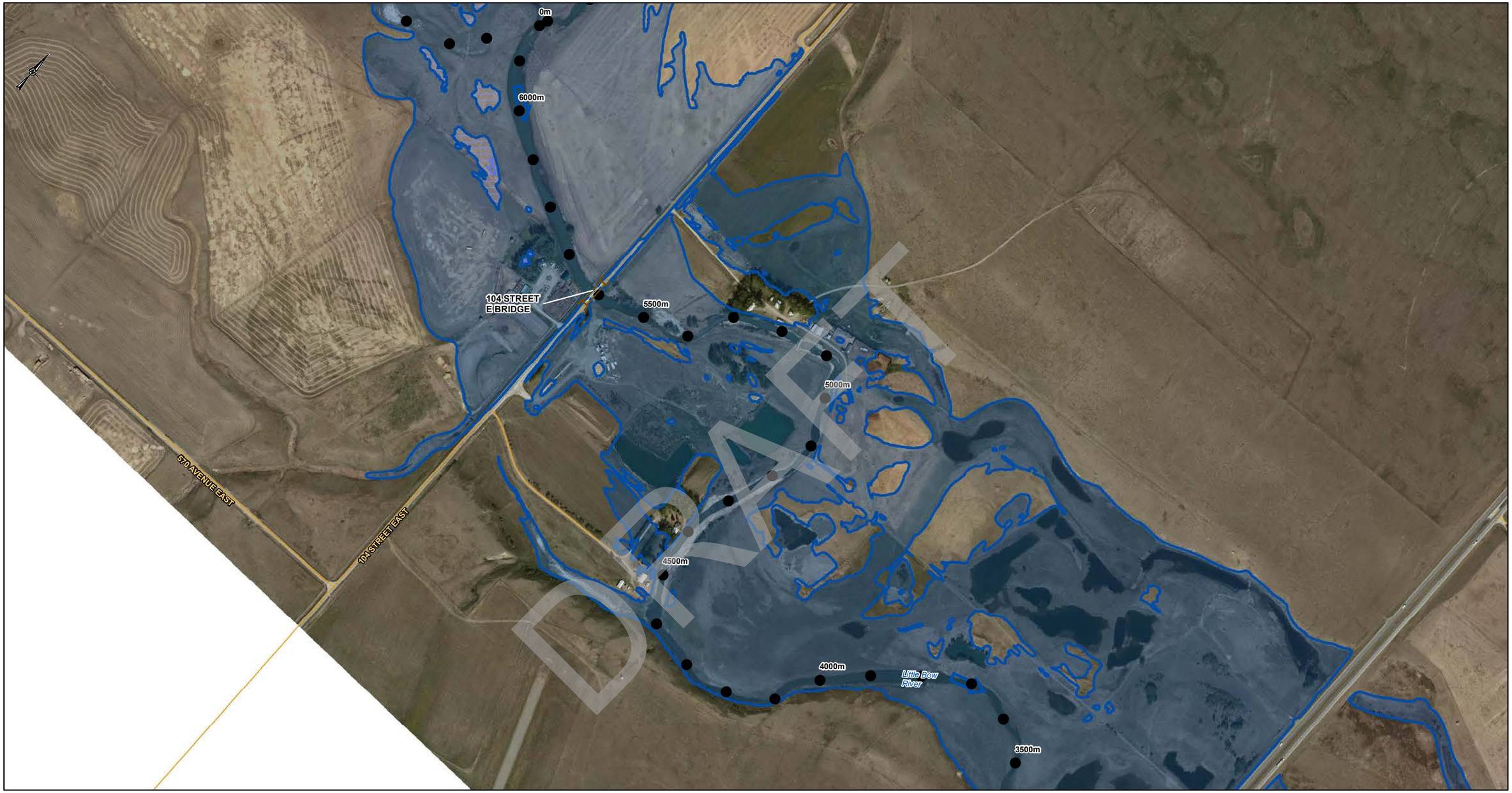
DRAFT

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

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Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

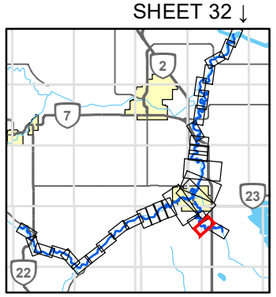
50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 172 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

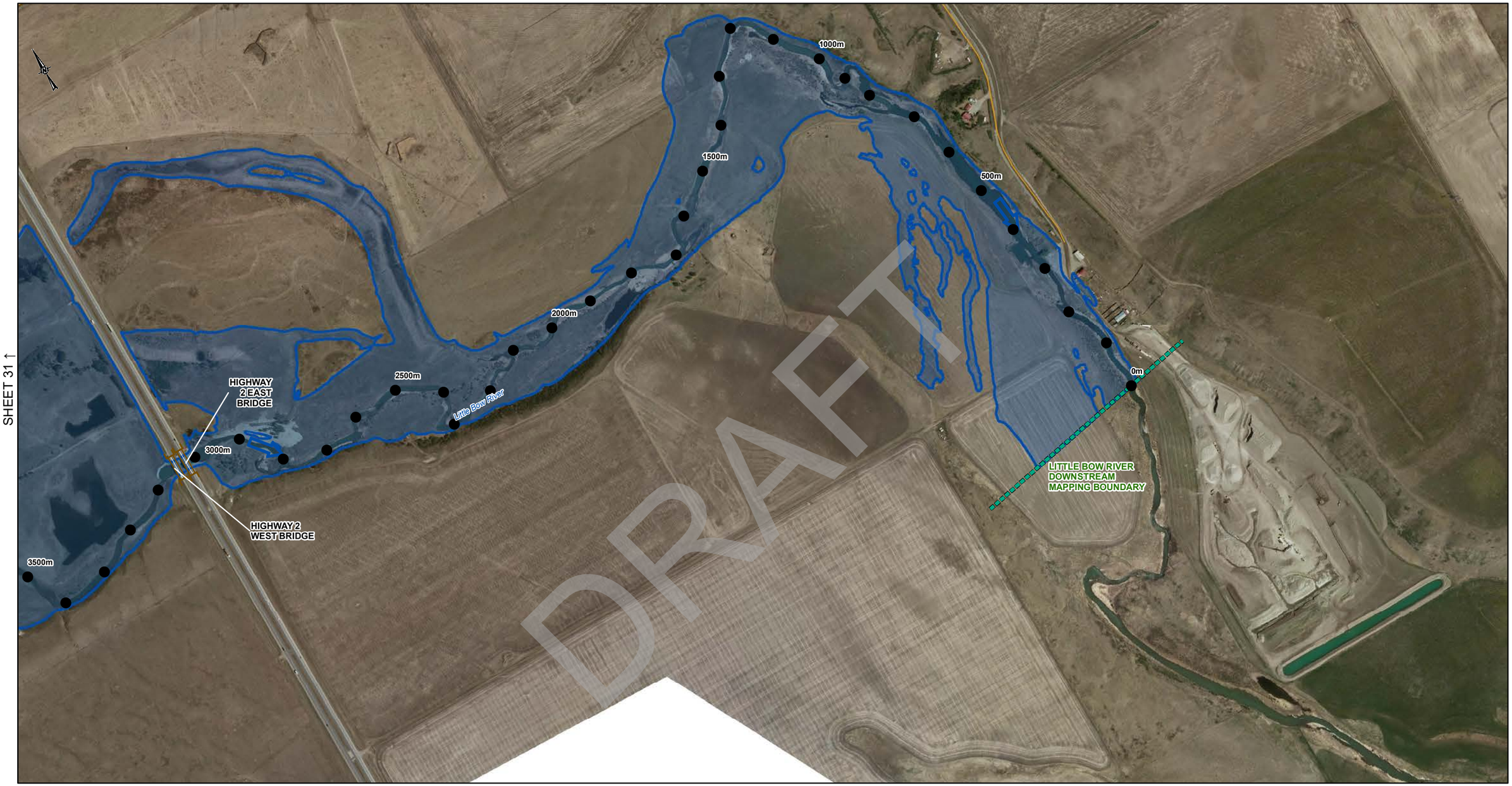
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Classification: Public



SHEET 31 ↑

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

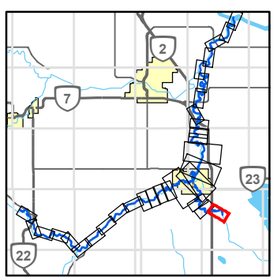
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 172 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT

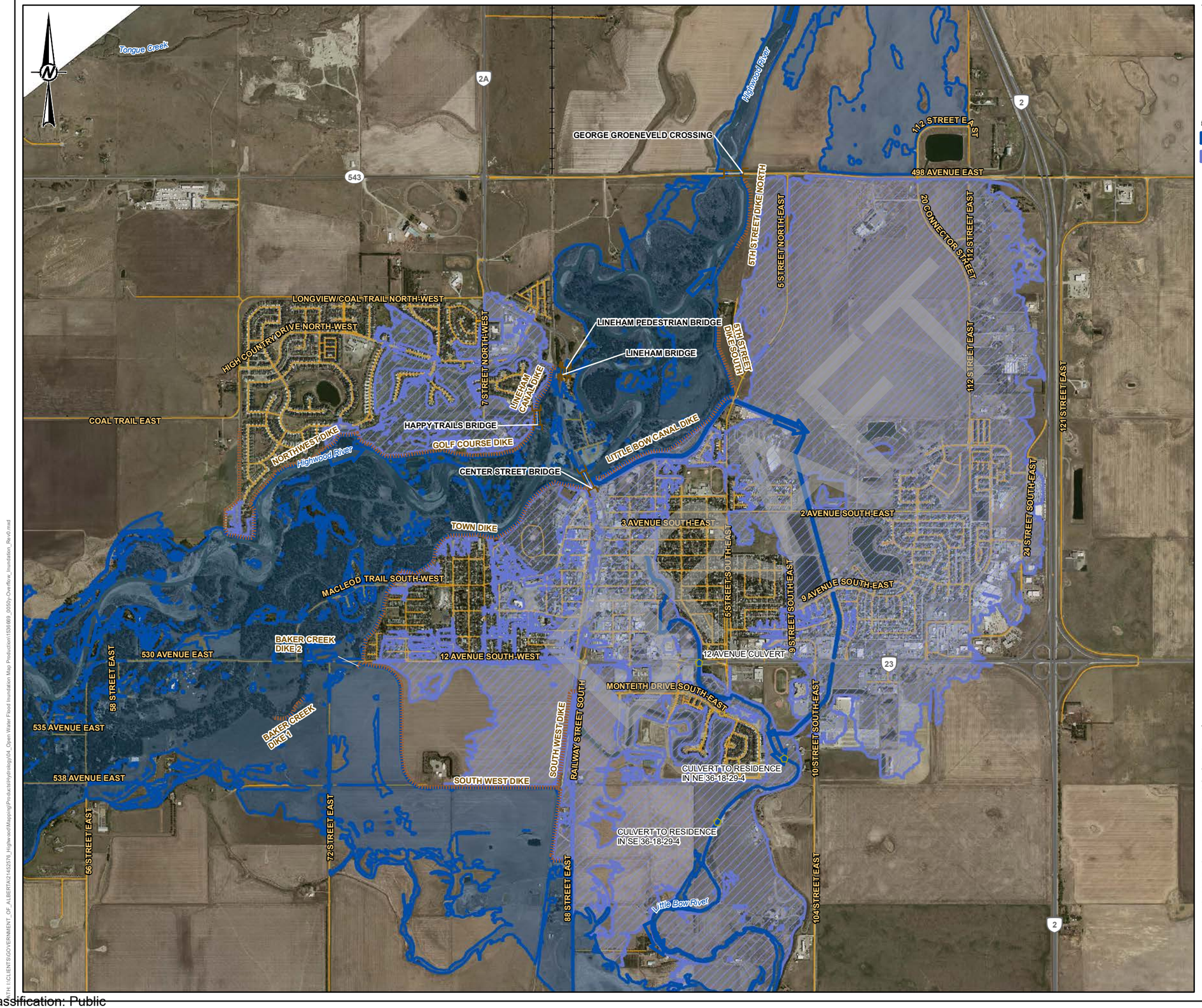
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2050y-Inundation_Rev0.mxd

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25mm 0

Classification: Public



LEGEND

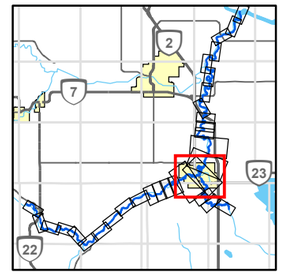
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

- 50-YEAR FLOOD EXTENT
- 50-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0050y-Overflow_Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

75-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT

Classification: Public



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

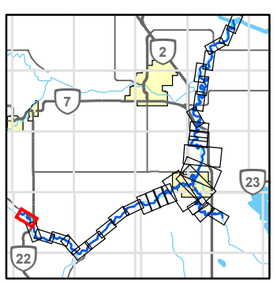
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

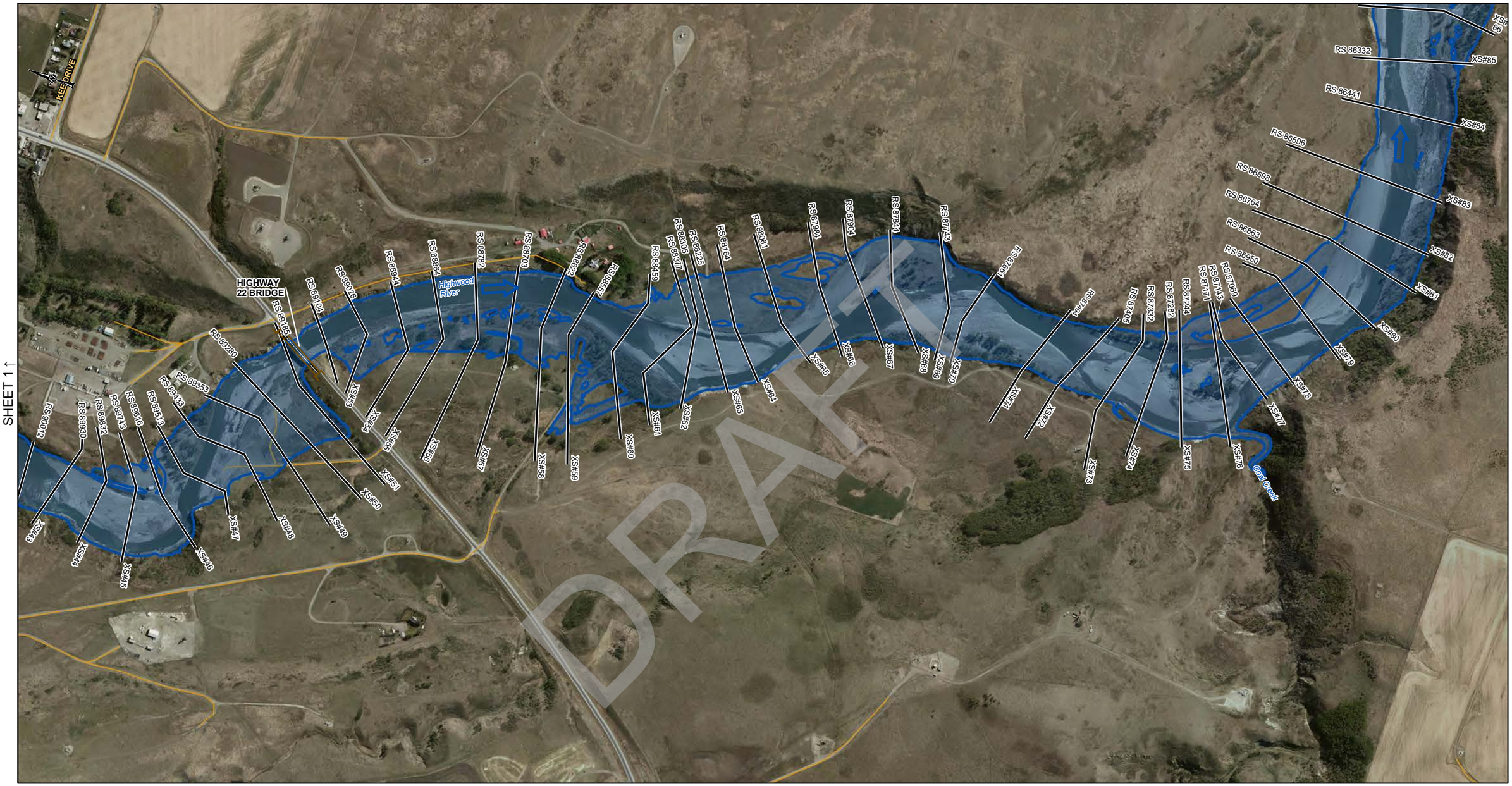
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Classification: Public



SHEET 1 ↑

SHEET 3 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

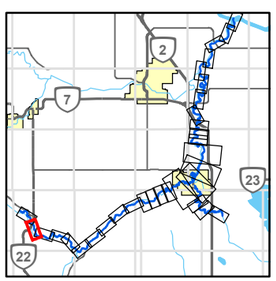
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

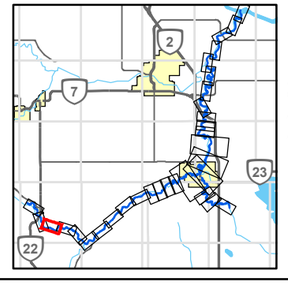
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

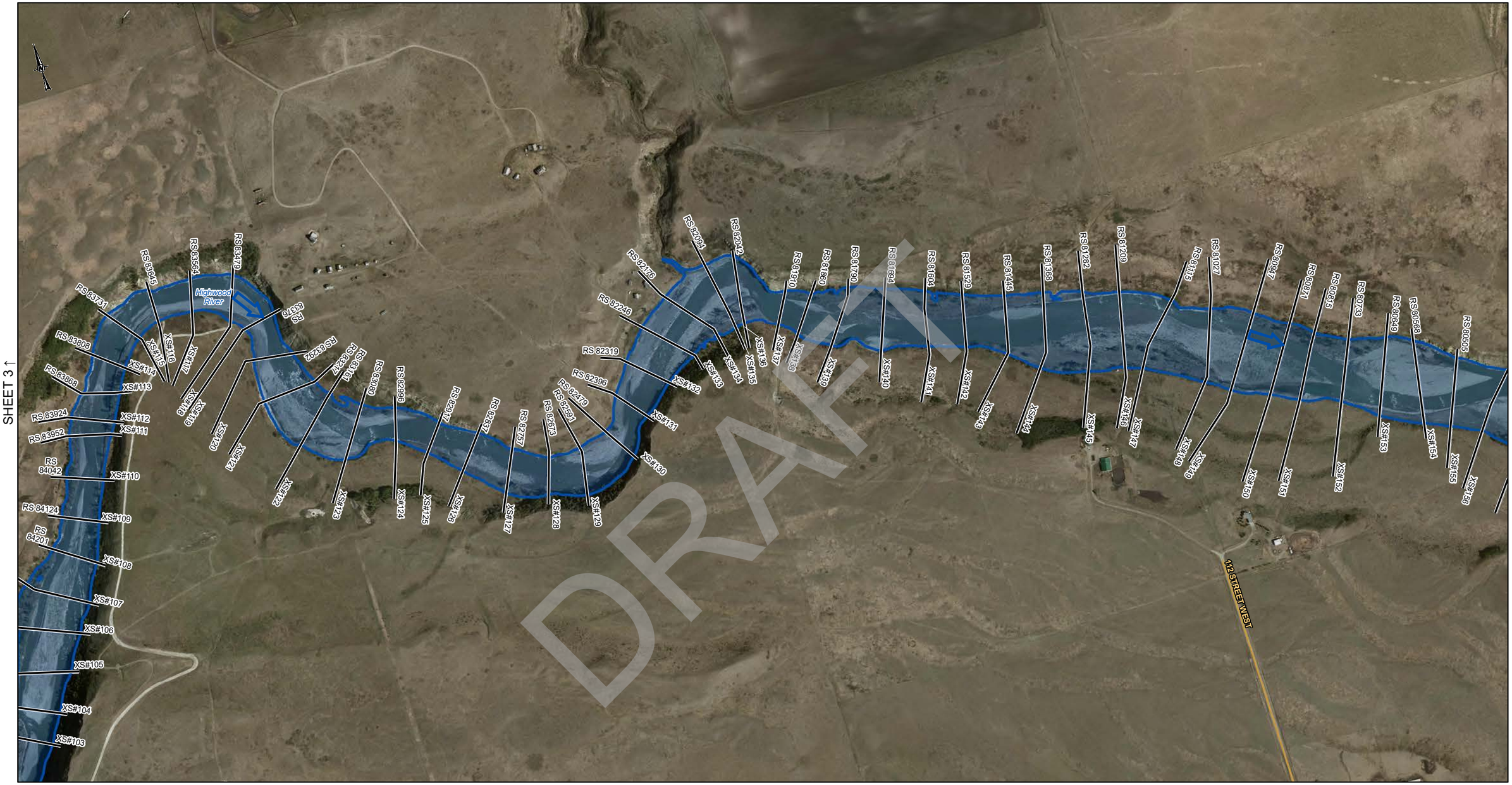
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25mm
0

Classification: Public

SHEET 3 ↑

SHEET 5 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

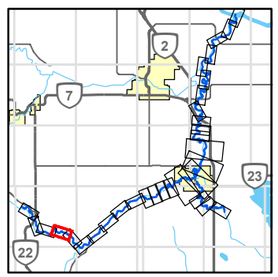
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
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- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

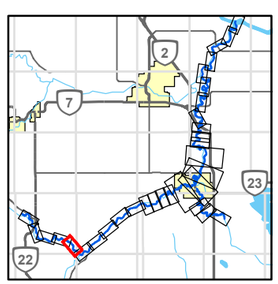
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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25mm

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

XS#184 RS 78229
XS#185
XS#186 RS 78142
XS#187 RS 78050
XS#188 RS 77962
XS#189 RS 77902
XS#190 RS 77821
RS 77741
RS 77660
XS#192 RS 77580
XS#193 RS 77499
XS#194 RS 77420
XS#195 RS 77344
XS#196 RS 77280
XS#197 RS 77166
XS#198 RS 77091
XS#199 RS 76999
XS#200 RS 76904
XS#201 RS 76842
XS#202 RS 76542
XS#203 RS 76418
XS#204 RS 76119
XS#205 RS 76427
XS#206 RS 76000
XS#207 RS 75982
XS#208 RS 75864
XS#209 RS 75784
XS#210 RS 75521
XS#211 RS 75416
XS#212 RS 75255
XS#213 RS 75109
XS#214 RS 74995
XS#215 RS 74874
XS#216 RS 74759
XS#217 RS 74632
XS#218 RS 74512

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

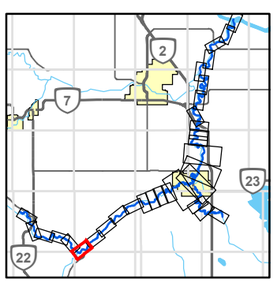
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 860 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-Inundation_Rev0.mxd

Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

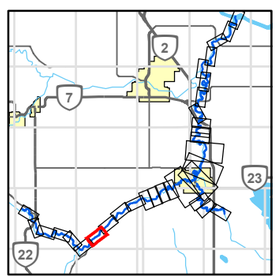
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

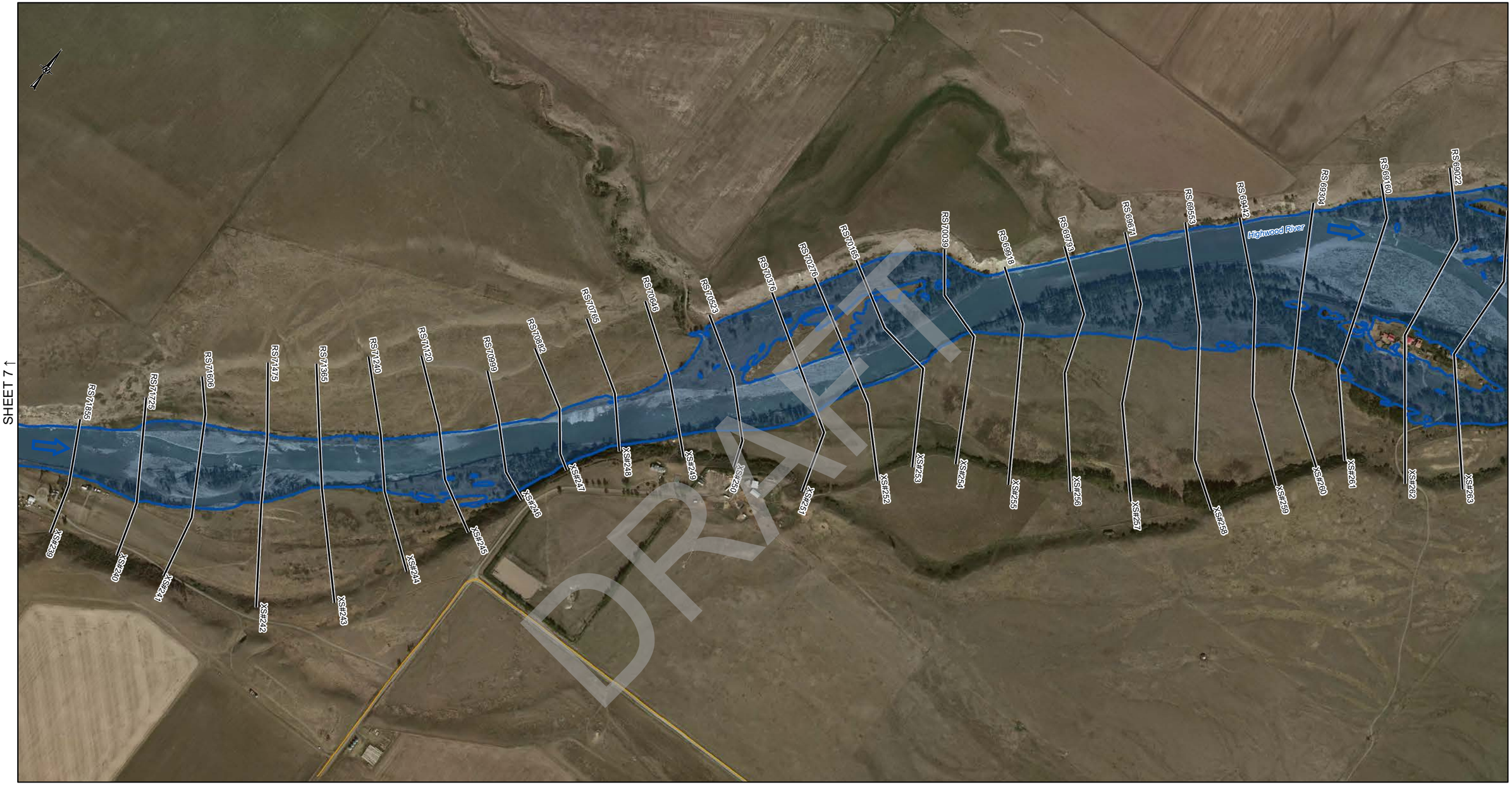
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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

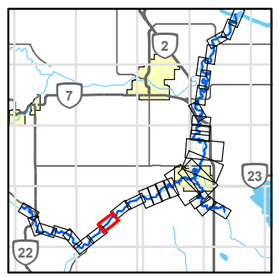
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

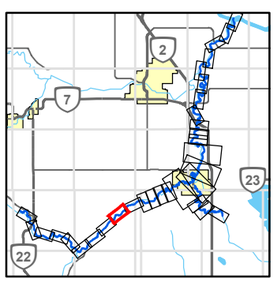
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500
1:7500 METRES

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GOLDER
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075r-Inundation_Rev0.mxd

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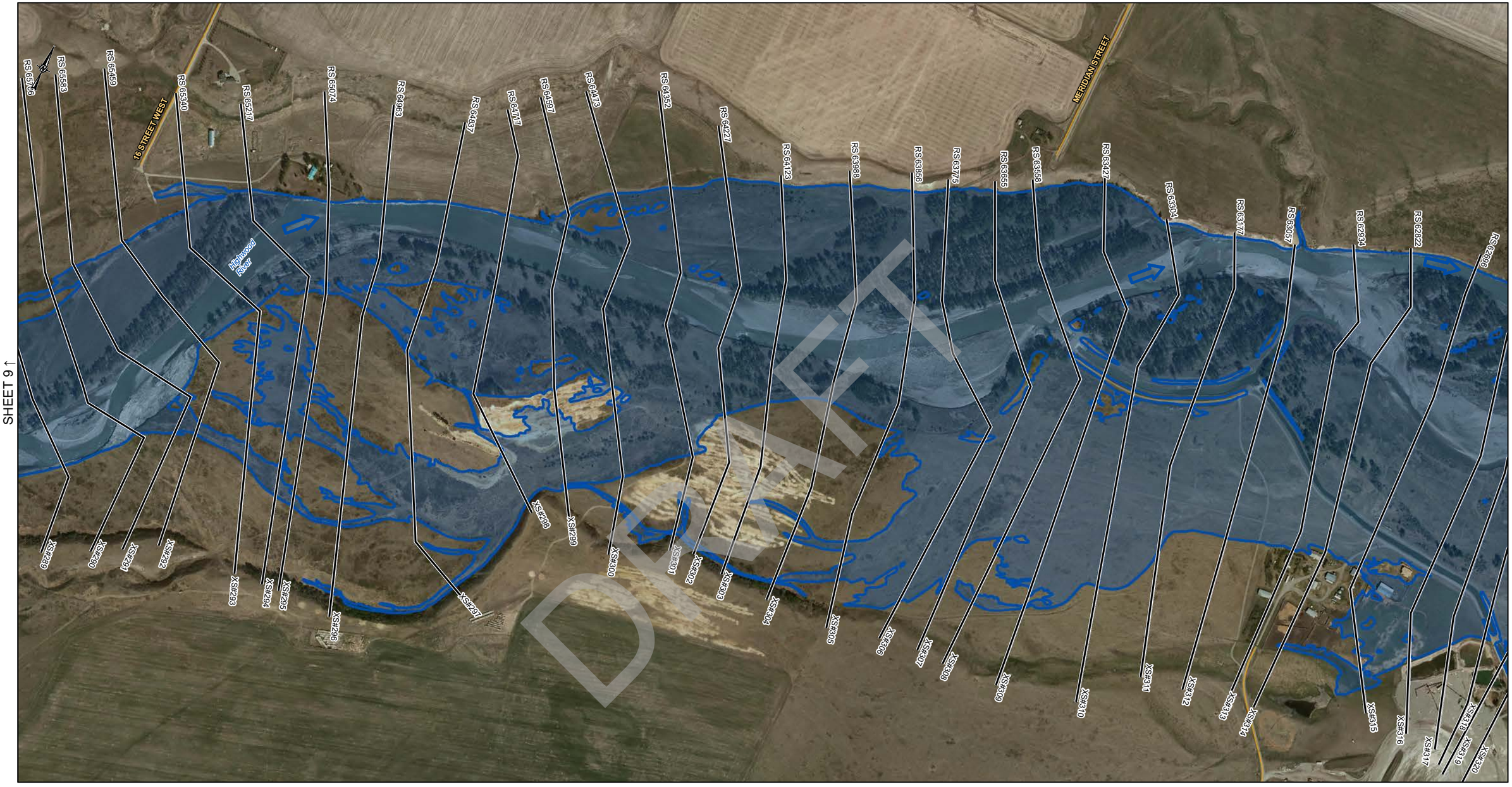
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

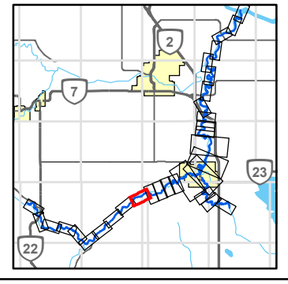
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

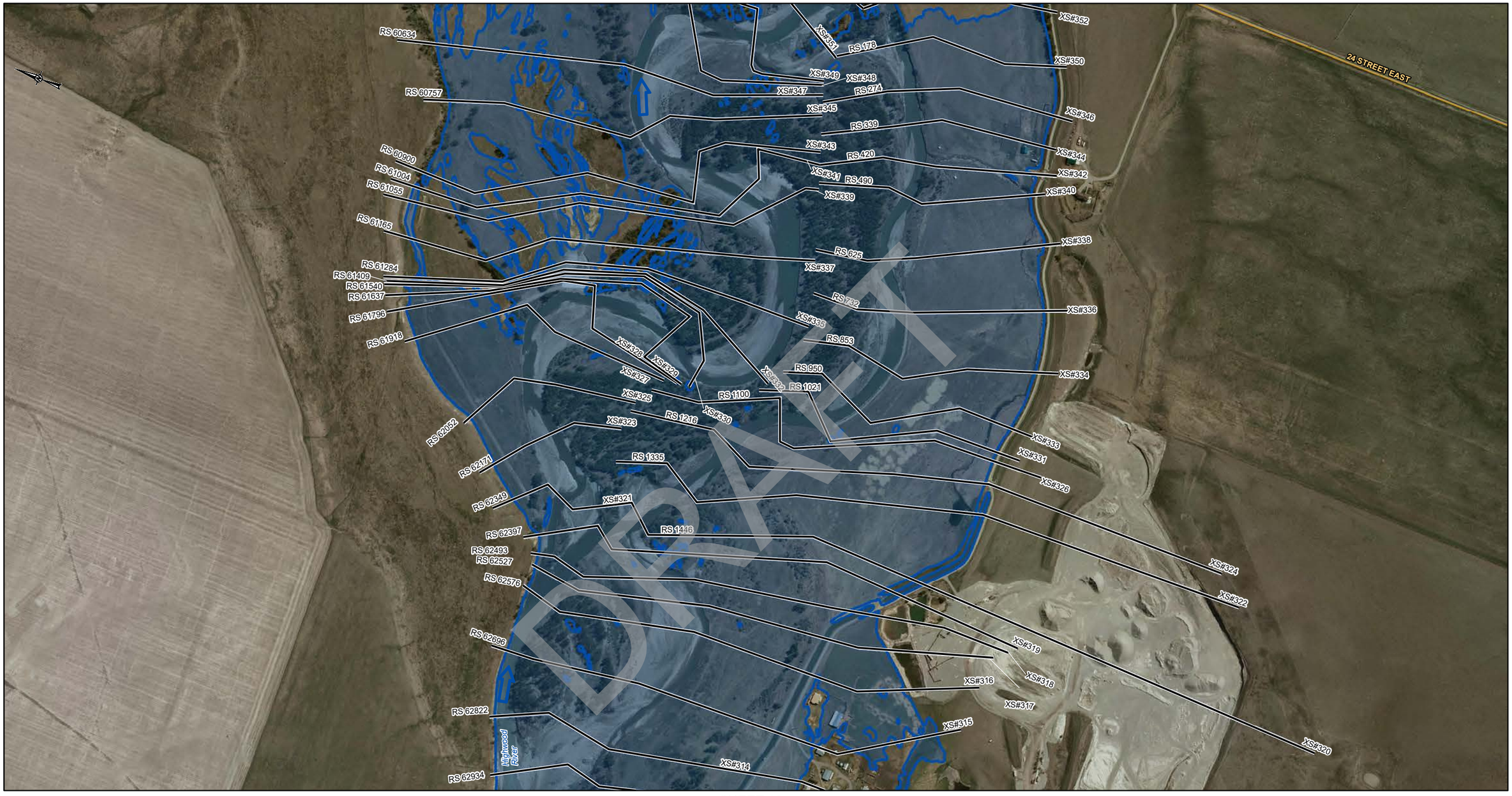
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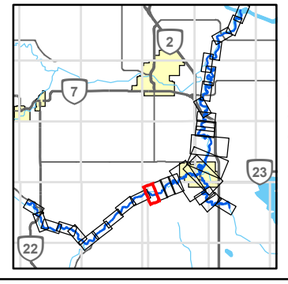
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 448 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 762 M^3/S

0 250 500
1:7500 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

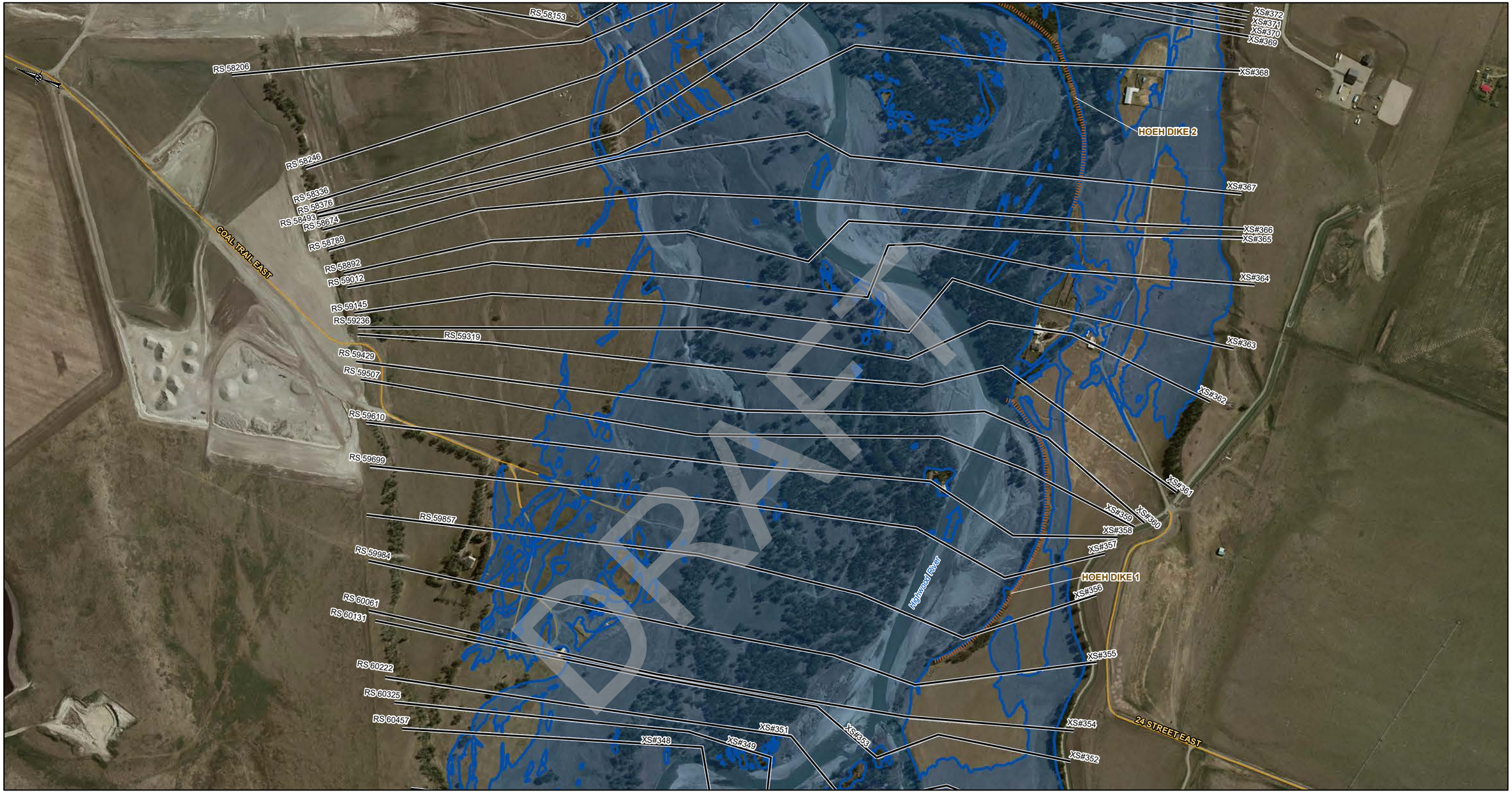
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Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

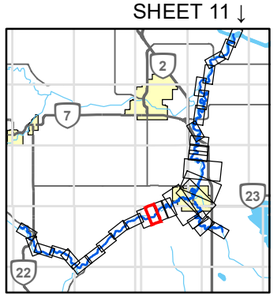
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



0 250 500

1:7500 METRES

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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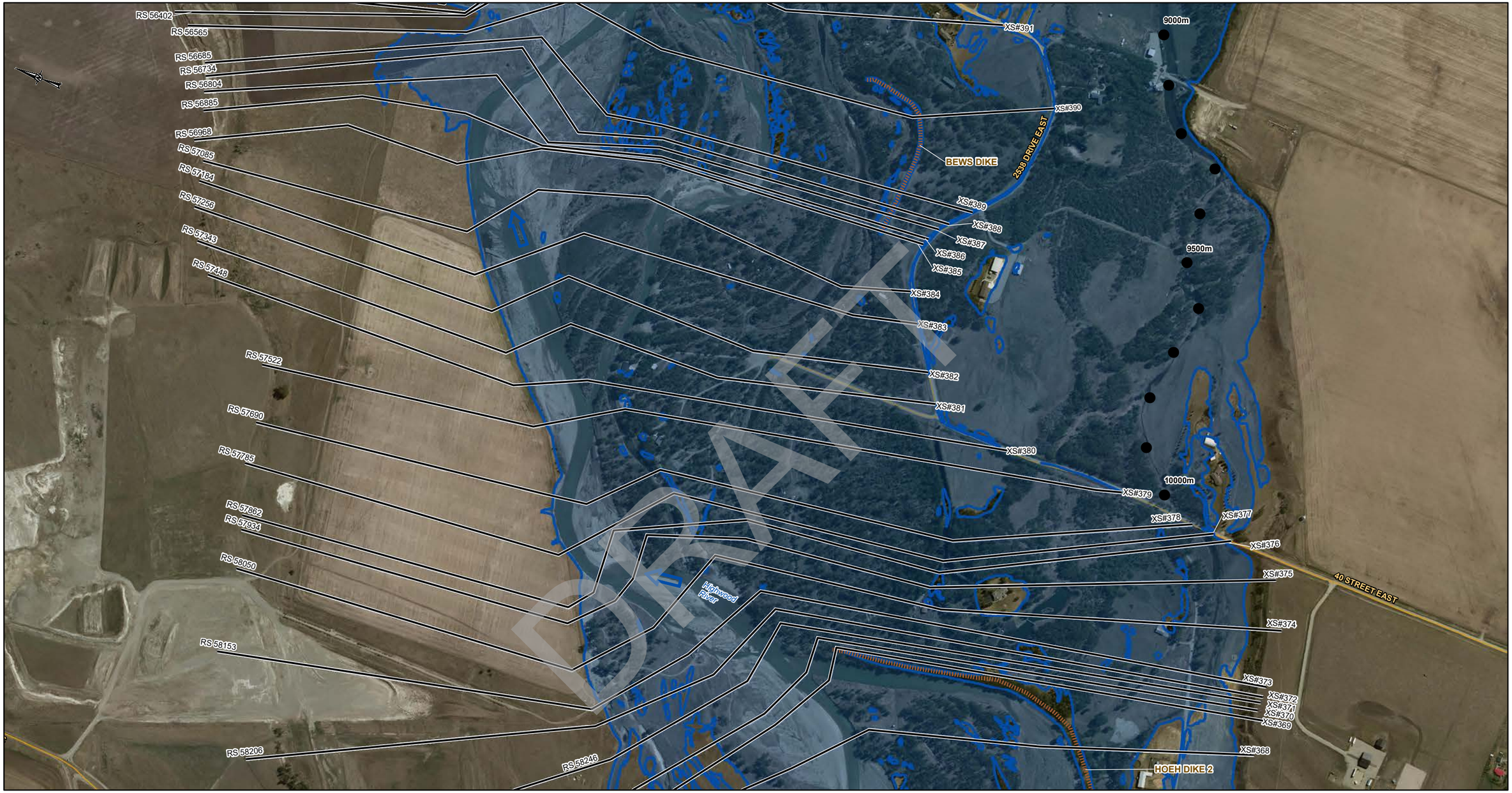
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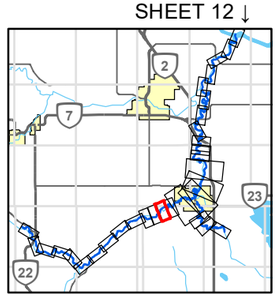
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Classification: Public

SHEET 14 ↑



SHEET 12 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

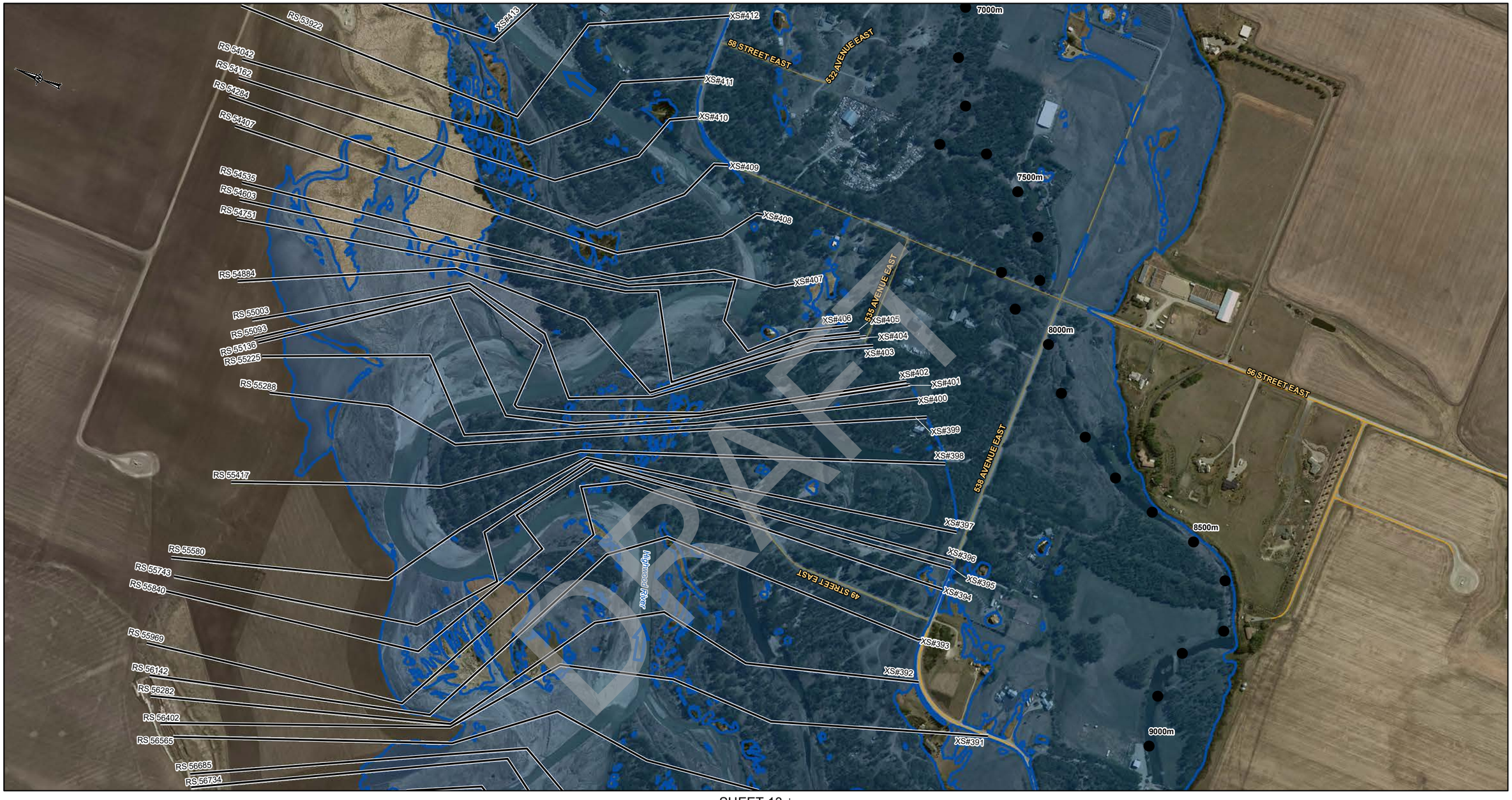
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Classification: Public

SHEET 15 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
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- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

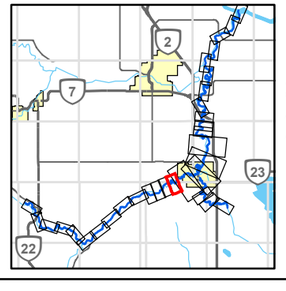
75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S

SHEET 13 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 16 ↑



SHEET 30 ↓

LEGEND

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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

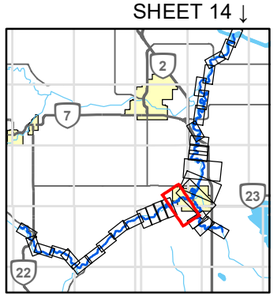
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S

SHEET 14 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

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Classification: Public

SHEET 17 ↑

SHEET 30 ↓

RS 42579
RS 42701
RS 42817
RS 42953
RS 43071
RS 44890
RS 44076
RS 44489
RS 45210
RS 45325
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RS 45704
RS 46900
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RS 50157
RS 50633
RS 51040
RS 51444
RS 51851
RS 52499

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XS#466
XS#465
XS#464
XS#463
XS#462
XS#460
XS#455
XS#450
XS#449
XS#448
XS#447
XS#445

Highwood River
Little Bow Canal

5TH STREET DIKE
LINEHAM PEDESTRIAN BRIDGE
LINEHAM BRIDGE
LINEHAM CANAL DIKE
HAPPY TRAILS BRIDGE
LITTLE BOW CANAL DIKE
FLOOD GATES
CENTRE STREET BRIDGE
GOLF COURSE DIKE
TOWN DIKE
12 AVENUE CULVERT
5TH STREET SE BRIDGE
CULVERT TO RESIDENCE IN NE 36-18-29-4
CULVERT TO RESIDENCE IN SE 36-18-29-4

12500m
12000m
11500m
11000m
10500m
10000m
9500m

HIGH COUNTRY DRIVE NORTH-WEST
RIVERSIDE DRIVE NORTH-WEST
HAMPSHIRE WAY NORTH-EAST
21 STREET SOUTH-EAST
121 STREET EAST
SUNSHINE TRAIL SOUTH-EAST
7 AVENUE SOUTH-EAST
20 STREET SOUTH-EAST
2 AVENUE SOUTH-EAST
9 AVENUE SOUTH-EAST
4A STREET SOUTH-EAST
6 AVENUE SOUTH-EAST
5 STREET SOUTH-EAST
9 STREET SOUTH-EAST
3 AVENUE SOUTH-EAST
11 AVENUE SOUTH-EAST
10 AVENUE SOUTH-EAST
MONTEITH DRIVE SOUTH-EAST
Lethbridge Nsf
404 STREET EAST

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

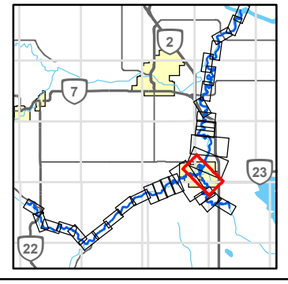
75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075yr-Inundation_Rev0.mxd

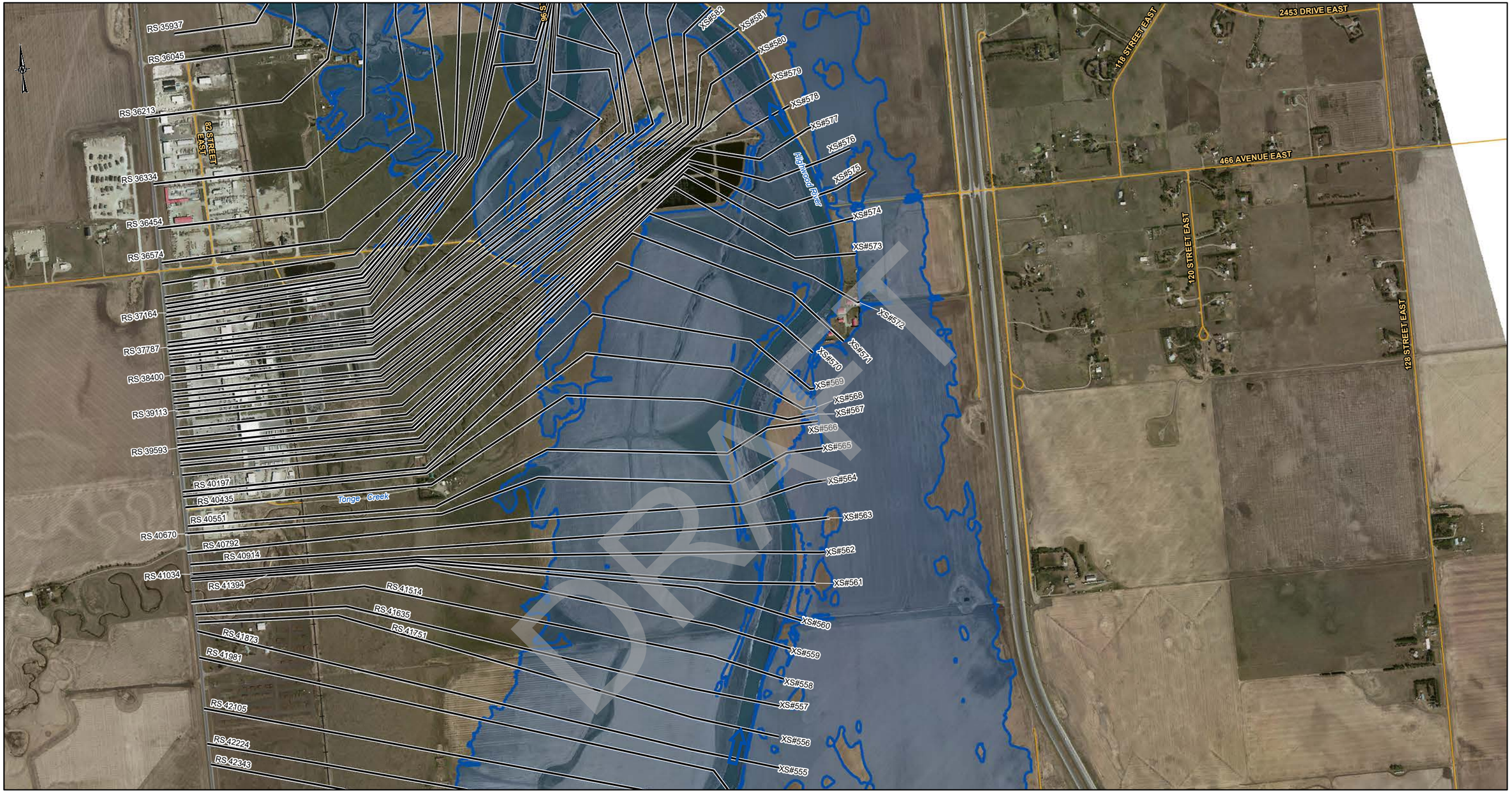
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Classification: Public

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SHEET 19 ↑



SHEET 17 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

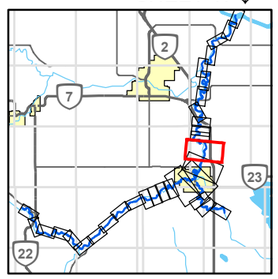
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



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1:15000 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

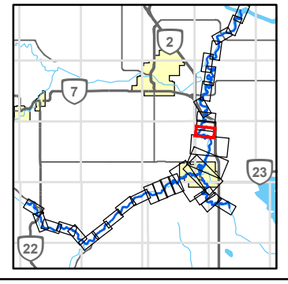
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S

SHEET 18 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 21 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

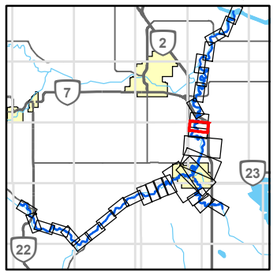
75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S

SHEET 19 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

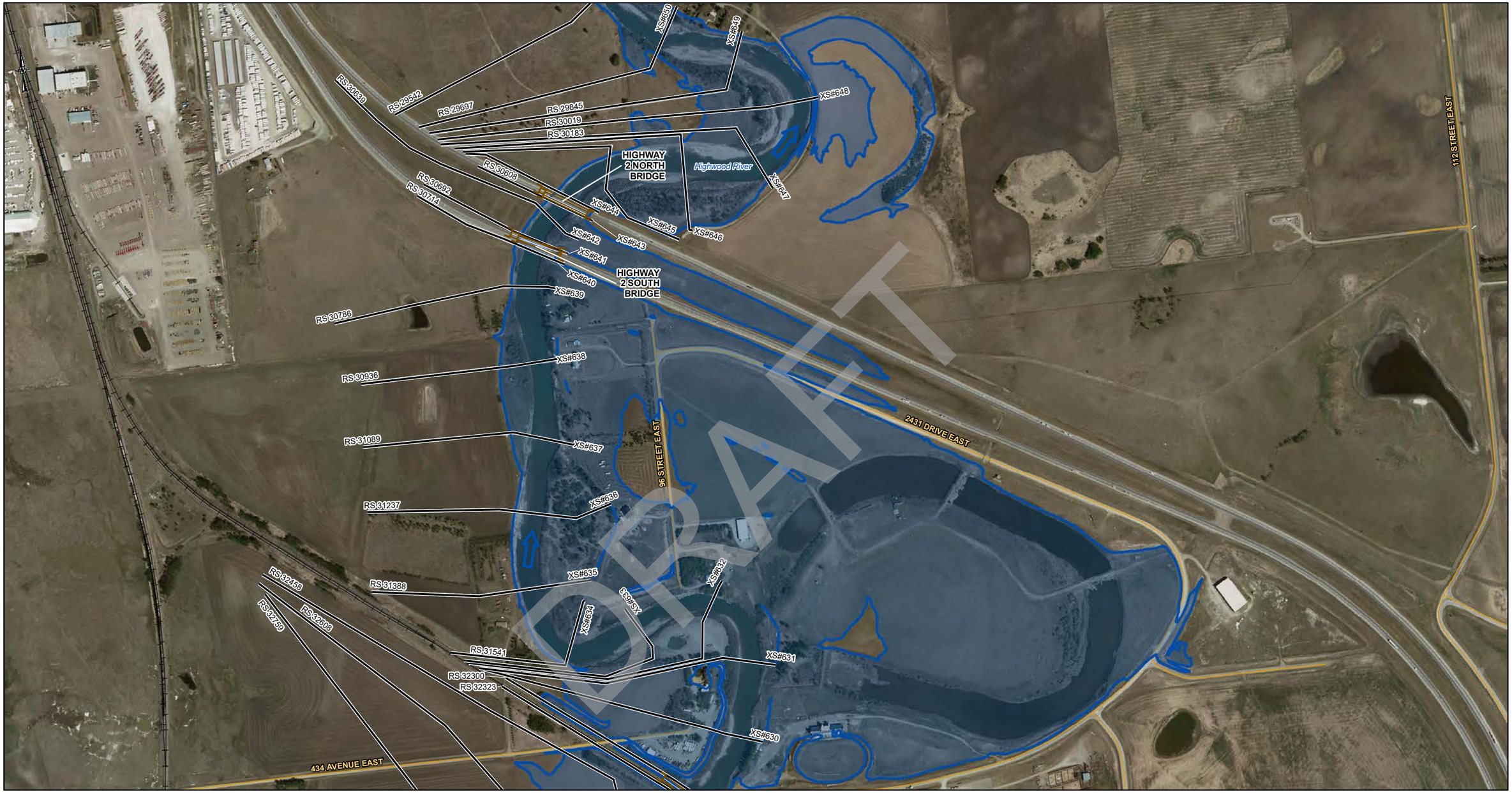
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Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

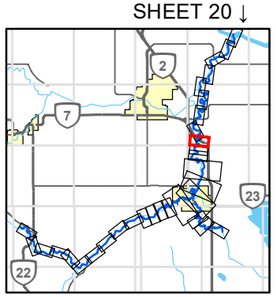
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 21 ↑

SHEET 23 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

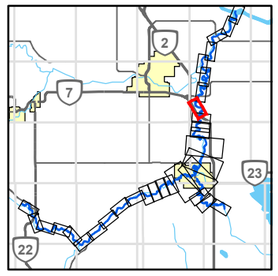
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

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25mm

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

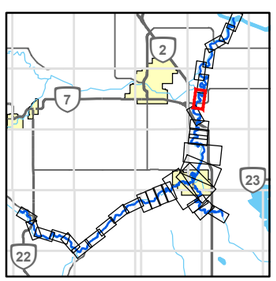
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

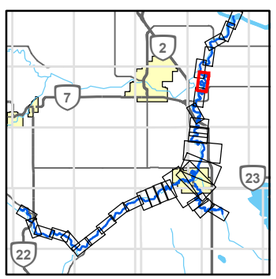
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



0 250 500

1:7500 METRES

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

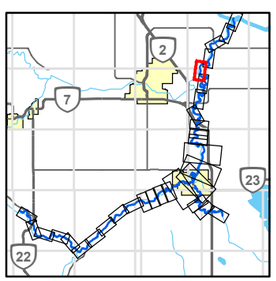
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

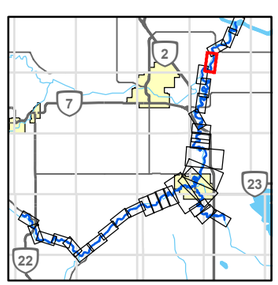
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

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SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

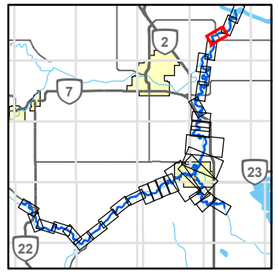
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



0 250 500

1:7500 METRES

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

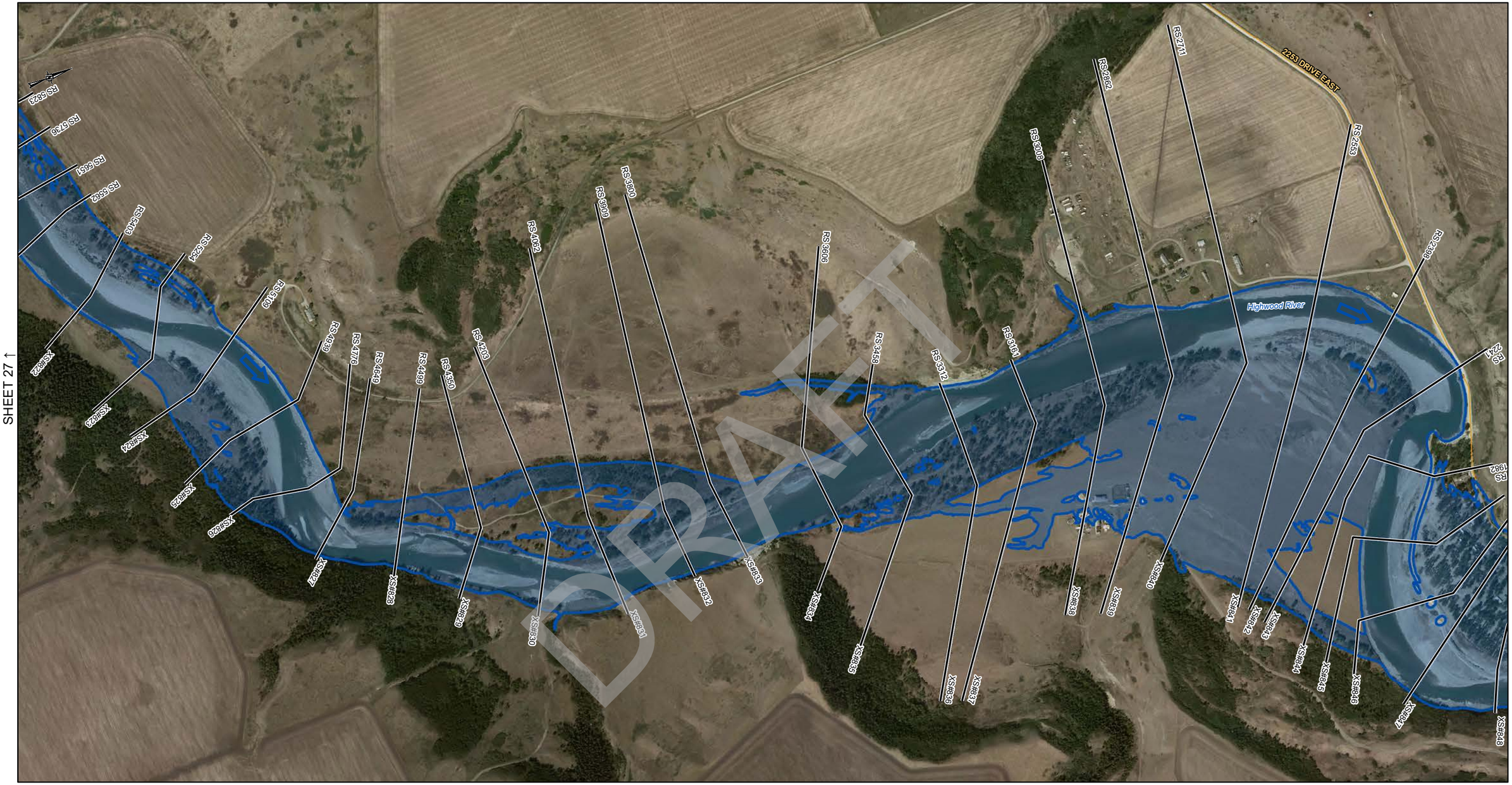
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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

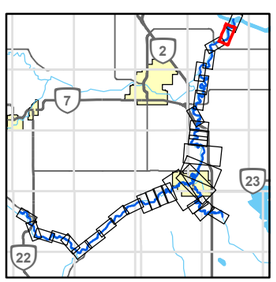
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

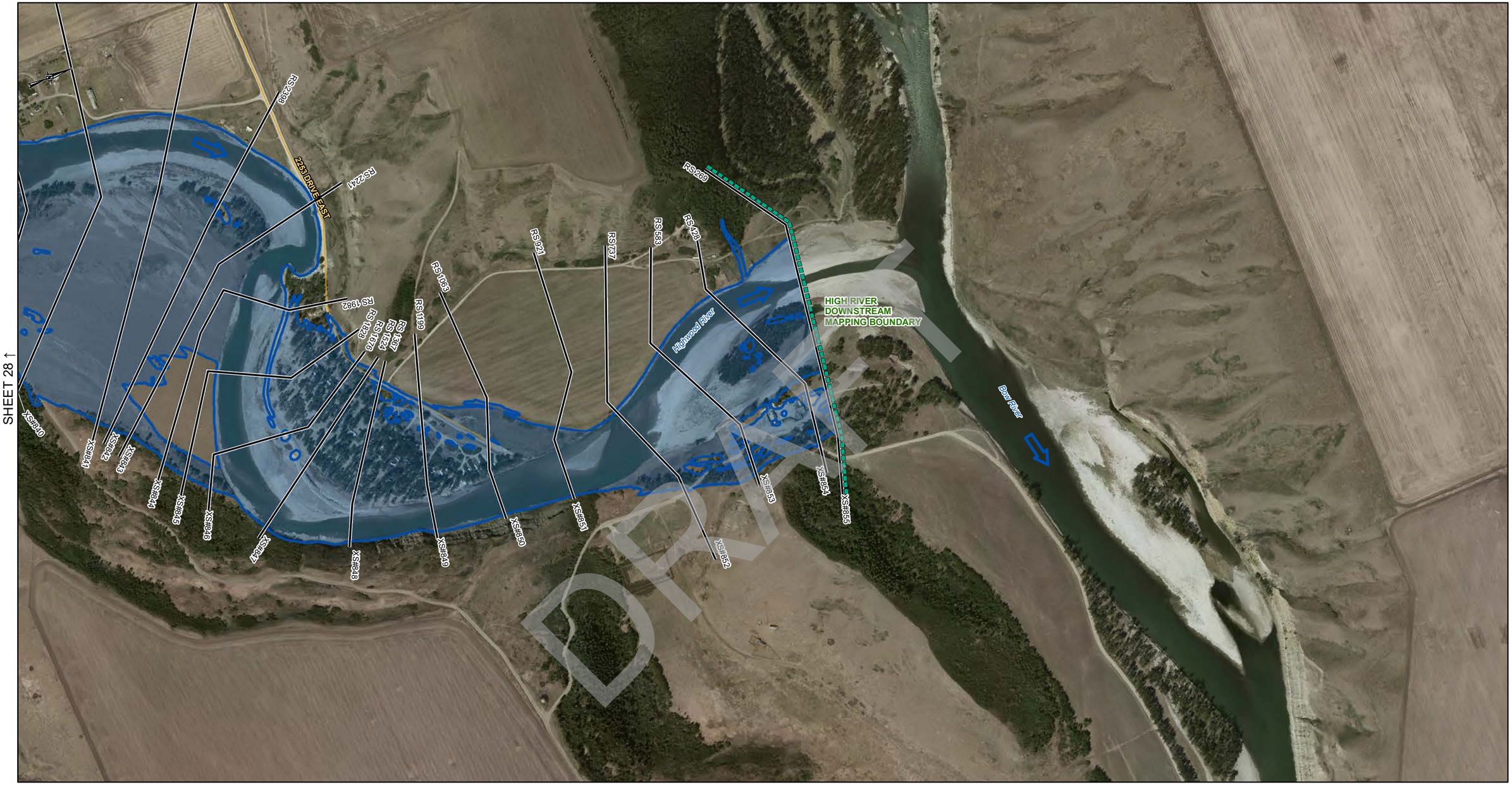
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Classification: Public

SHEET 28 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

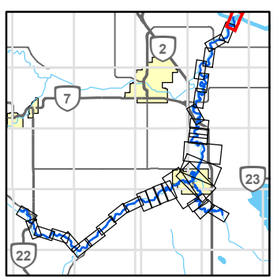
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



0 250 500
1:7500 METRES

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

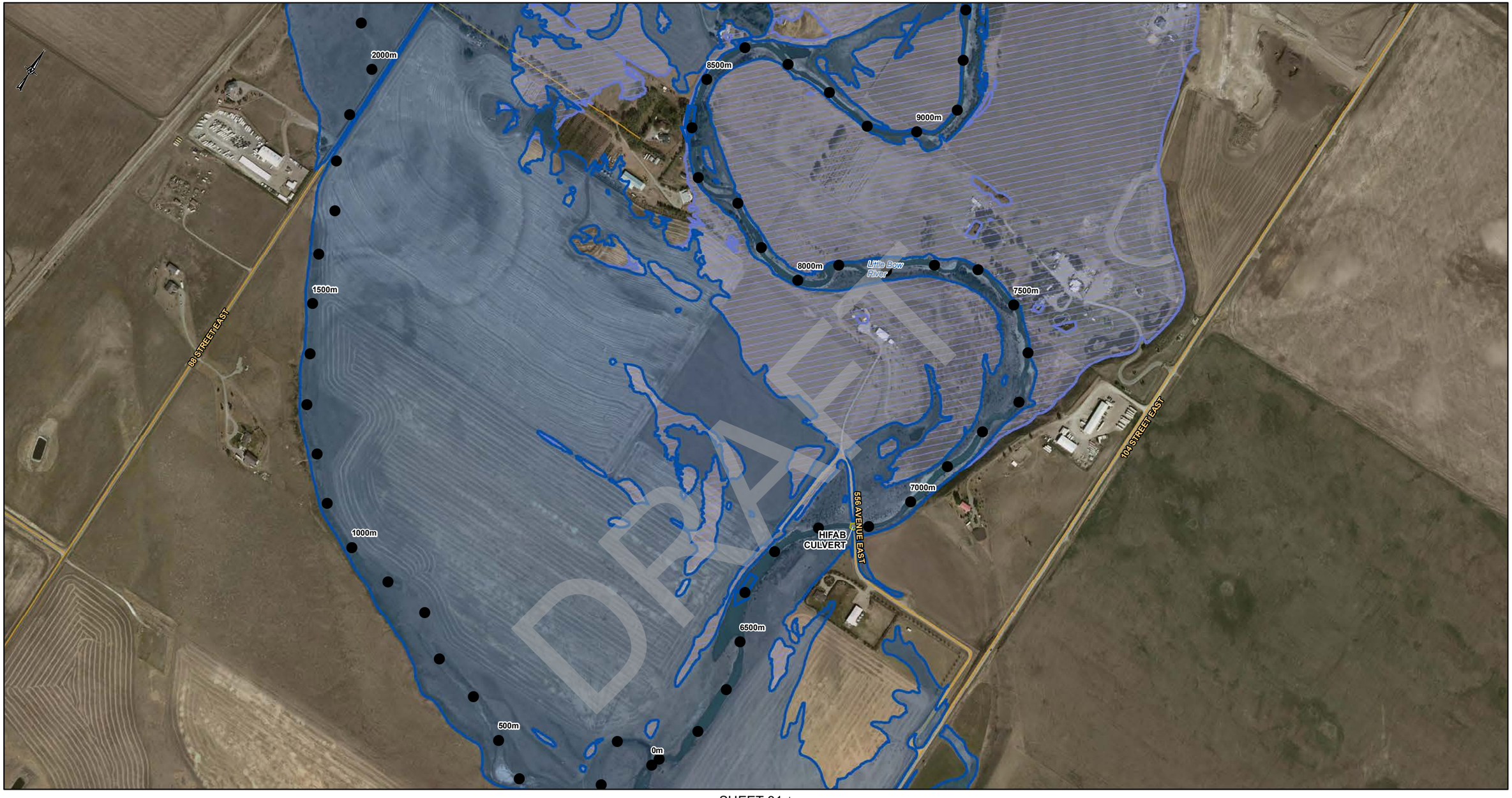
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET15 ↑



SHEET 16 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

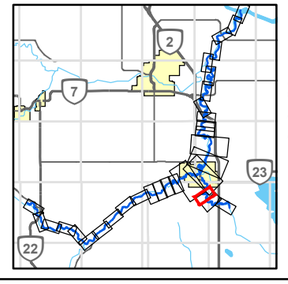
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 288 M^3/S

SHEET 31 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

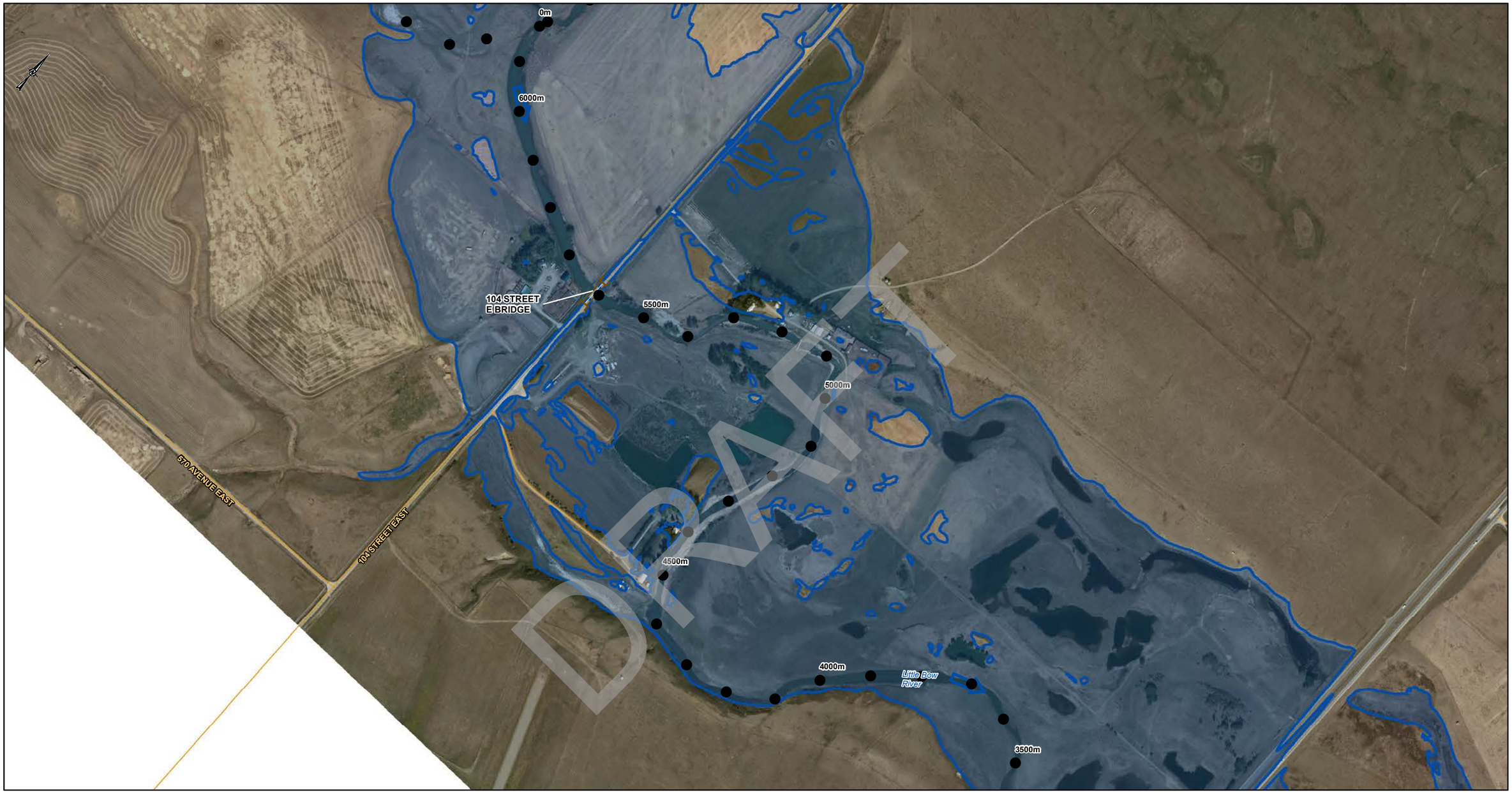
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

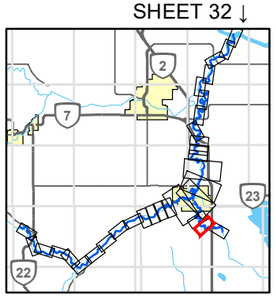
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 288 M^3/S

SHEET 32 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

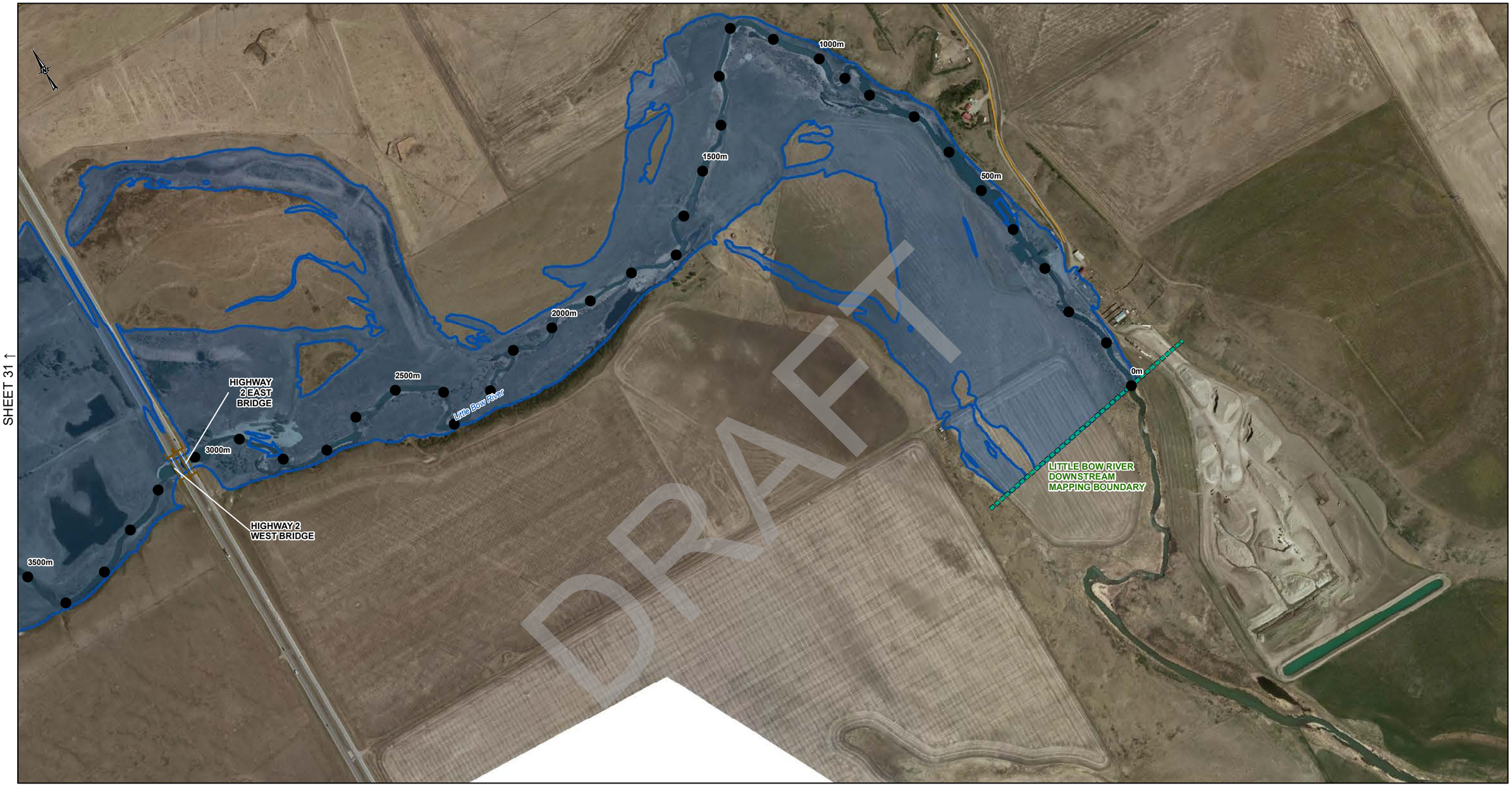
TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

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Classification: Public



SHEET 31 ↑

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

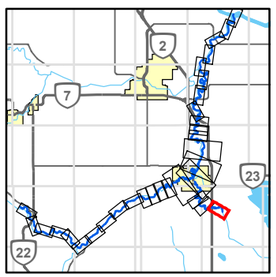
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 288 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)
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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

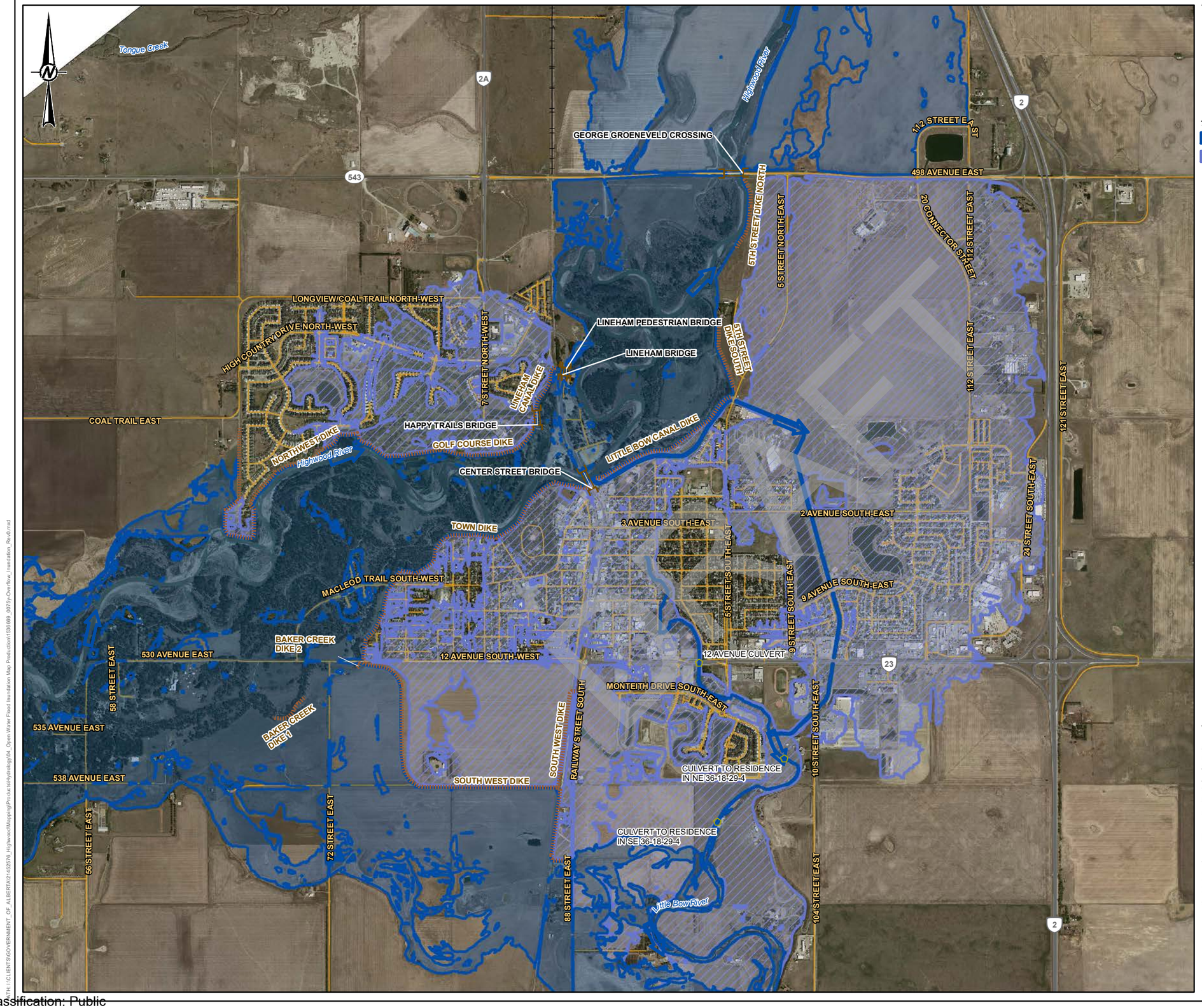
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Classification: Public



LEGEND

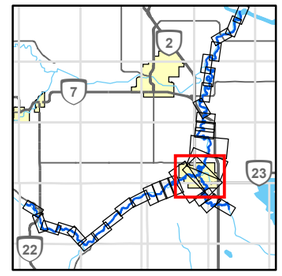
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

- 75-YEAR FLOOD EXTENT
- 75-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

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25mm

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Classification: Public

100-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

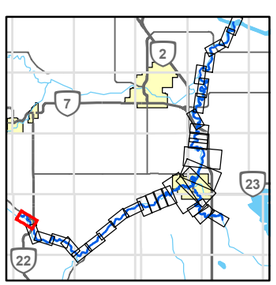
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

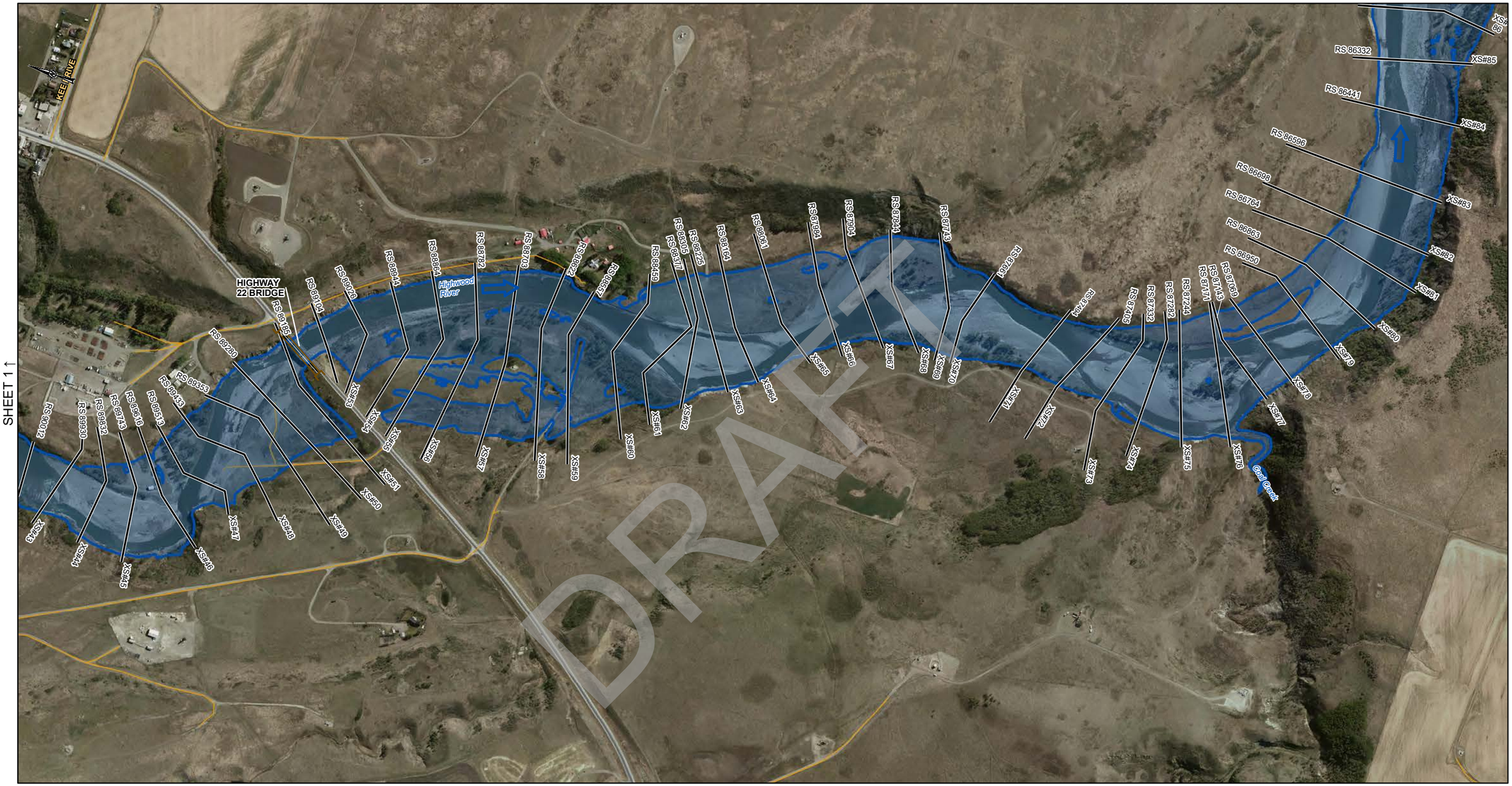
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

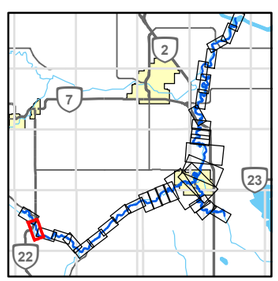
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0100y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

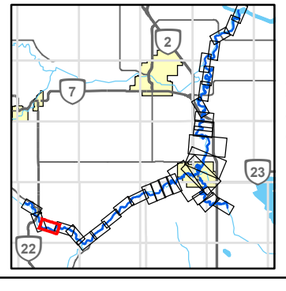
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

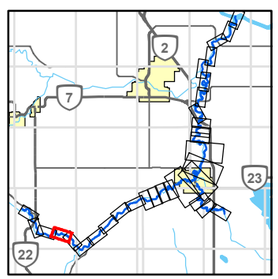
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

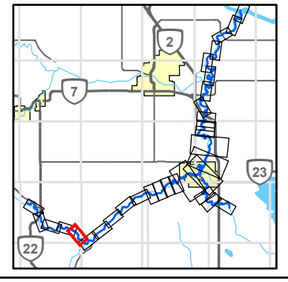
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

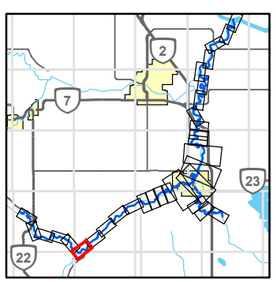
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500
1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

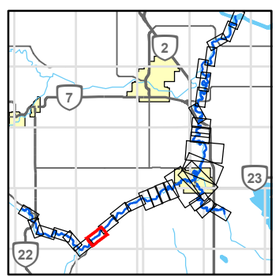
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

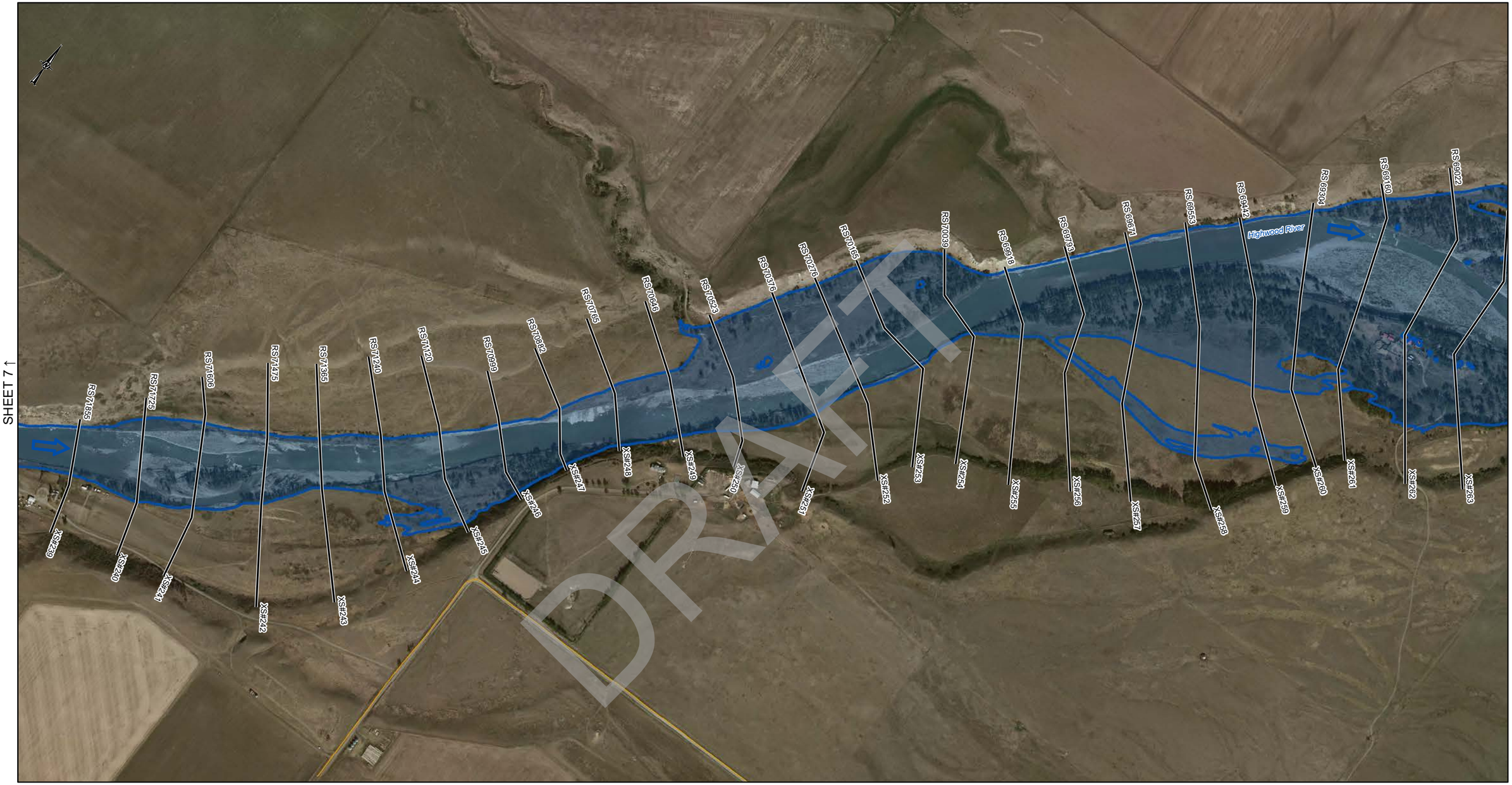
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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

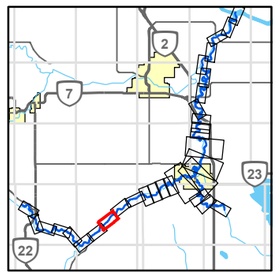
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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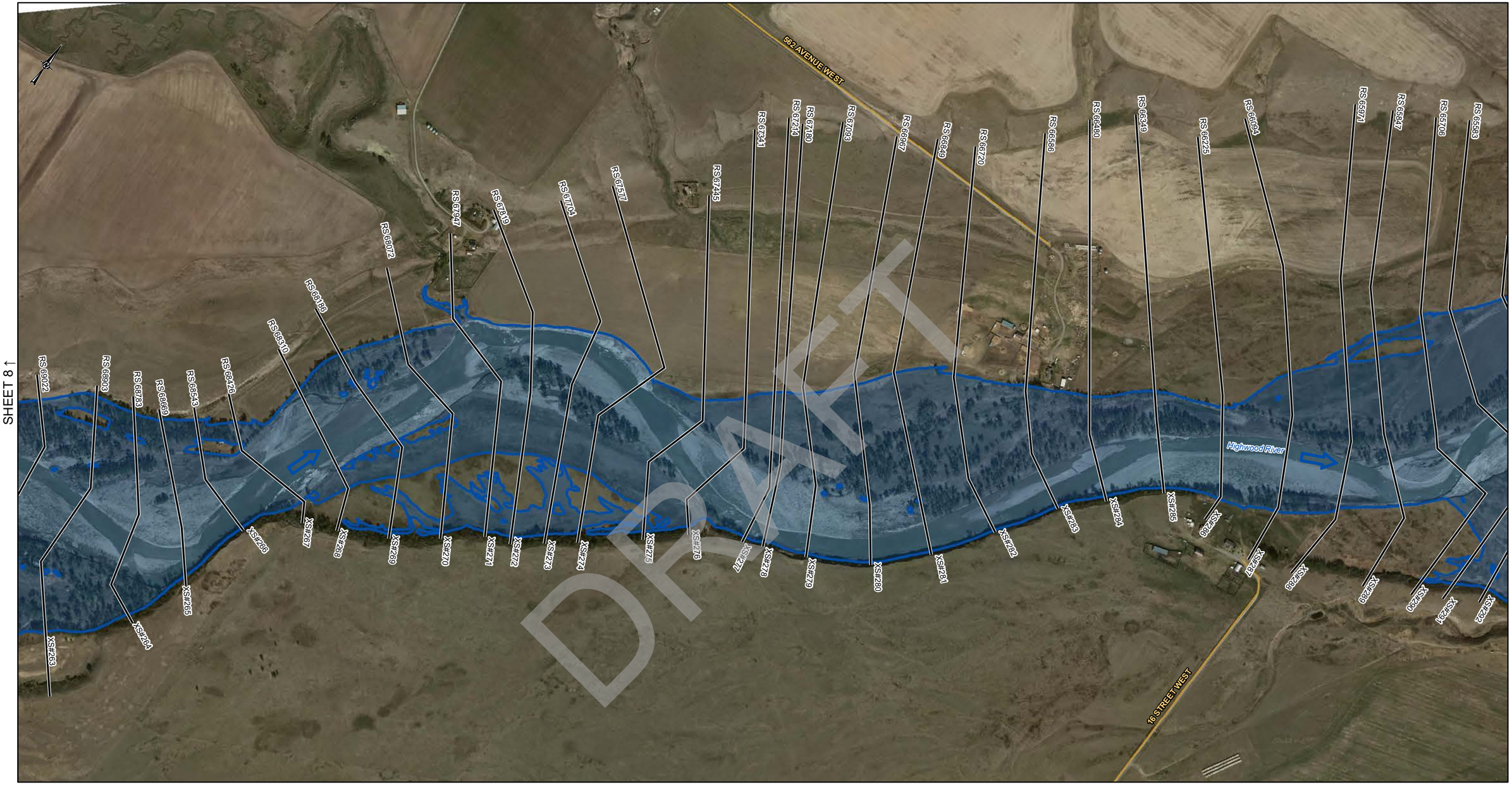
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

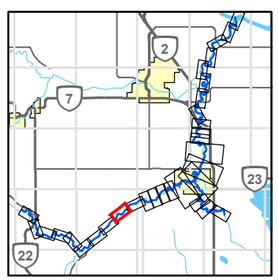
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500

1:7500 METRES

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

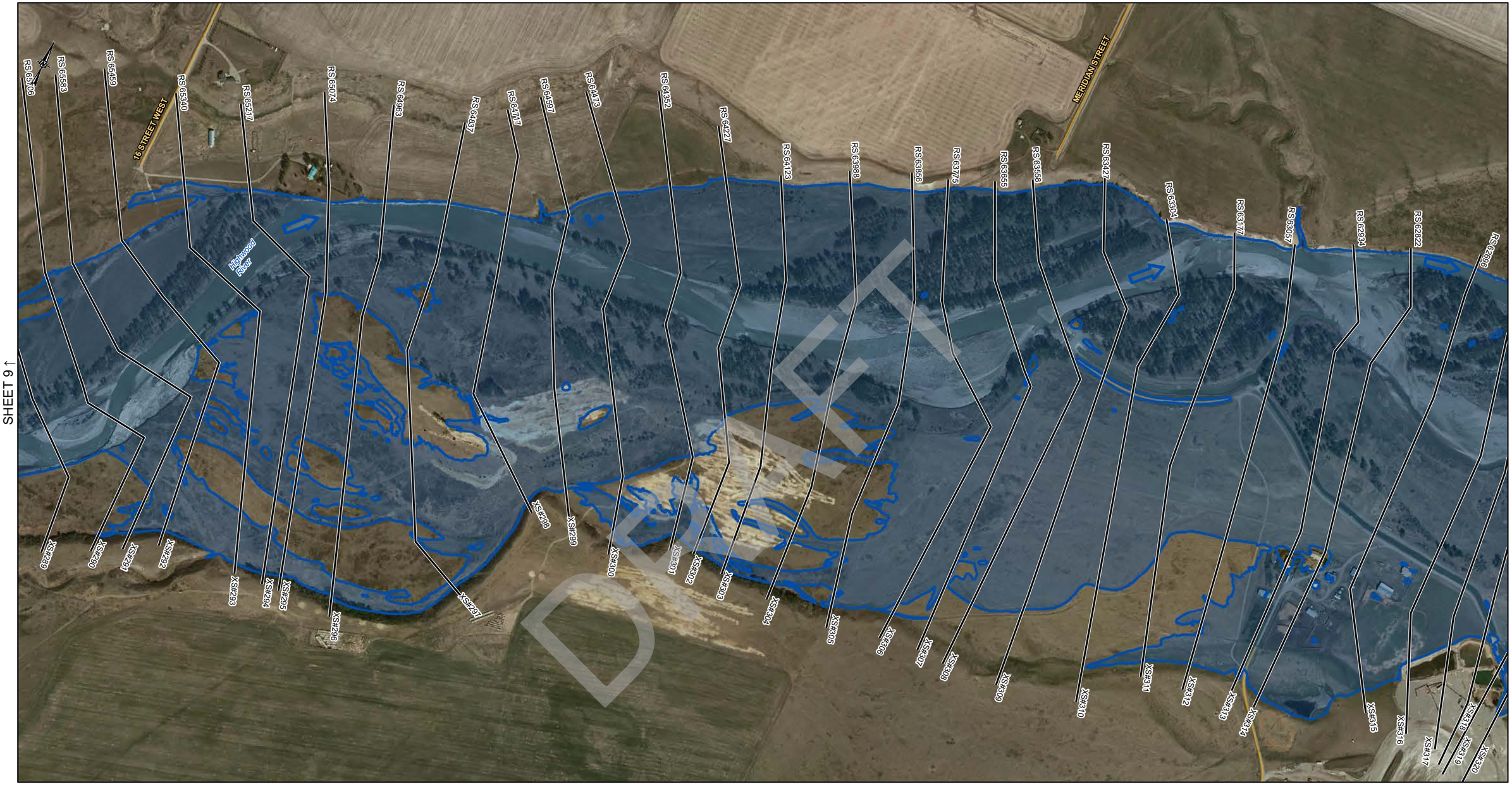
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

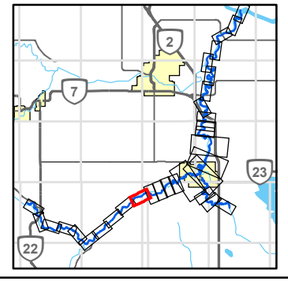
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

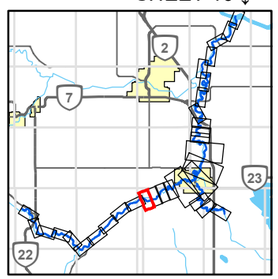
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 577 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 983 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

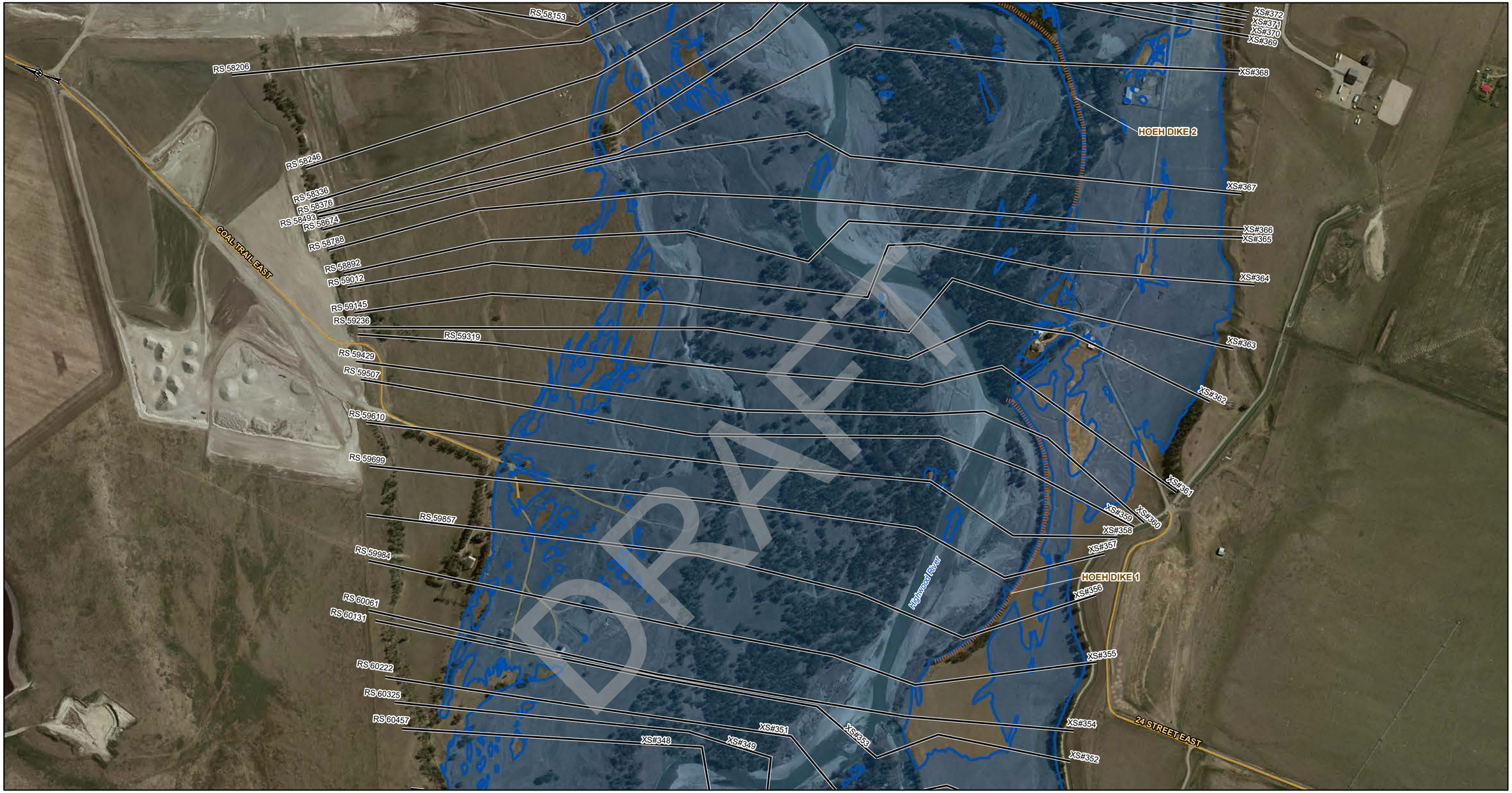
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Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

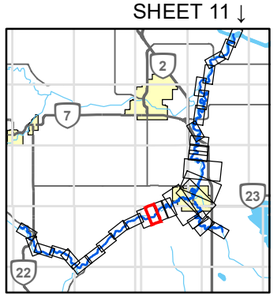
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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0 25mm

Classification: Public

SHEET 14 ↑



SHEET 12 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

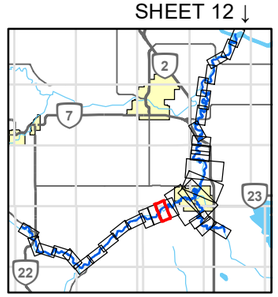
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

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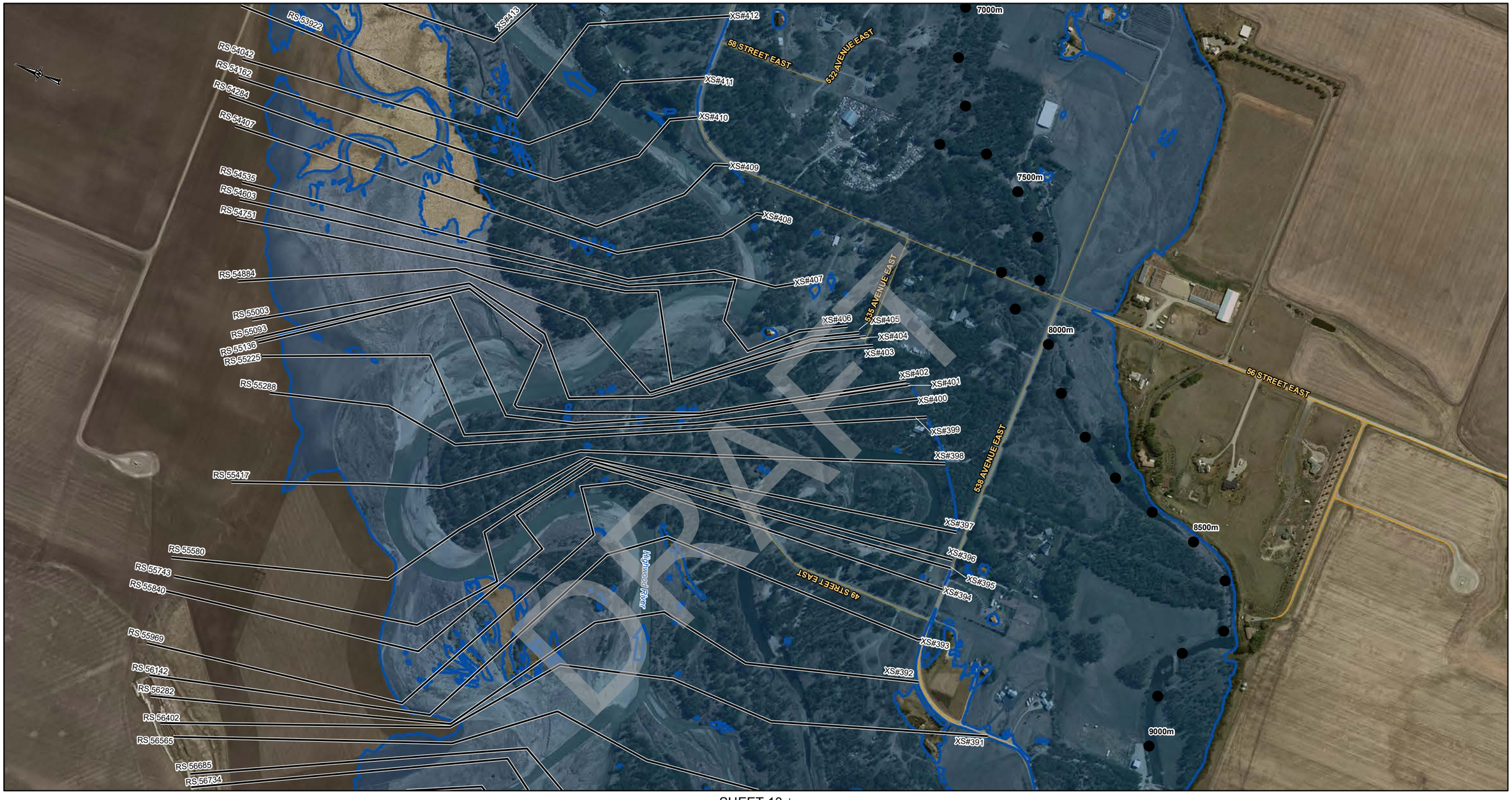
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Classification: Public

SHEET 15 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

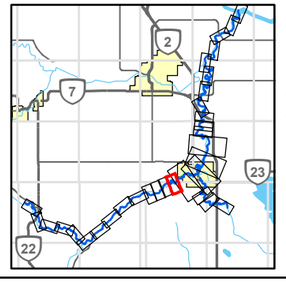
100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S

SHEET 13 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 16 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

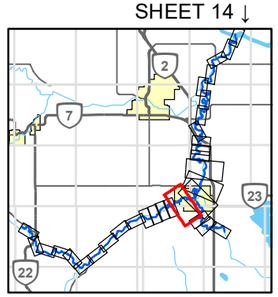
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S

SHEET 14 ↓



0 250 500
1:15000 METRES

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

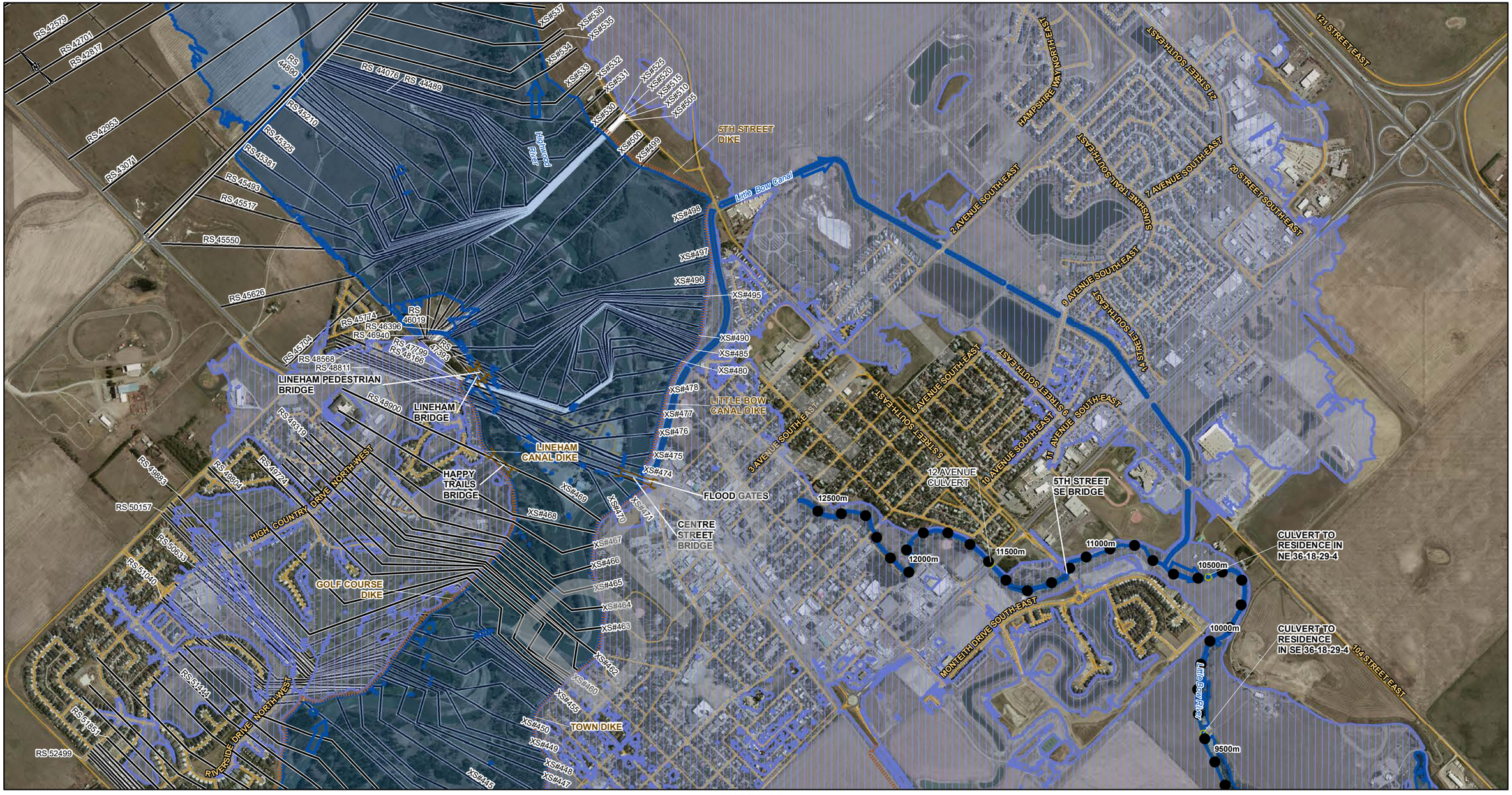
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DRAFT

Classification: Public

SHEET 17 ↑



SHEET 30 ↓

SHEET 15 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

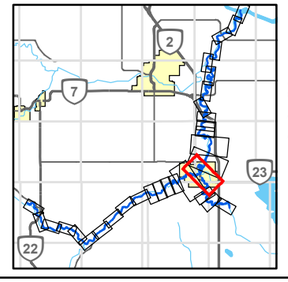
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1560 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S



0 250 500
1:15000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

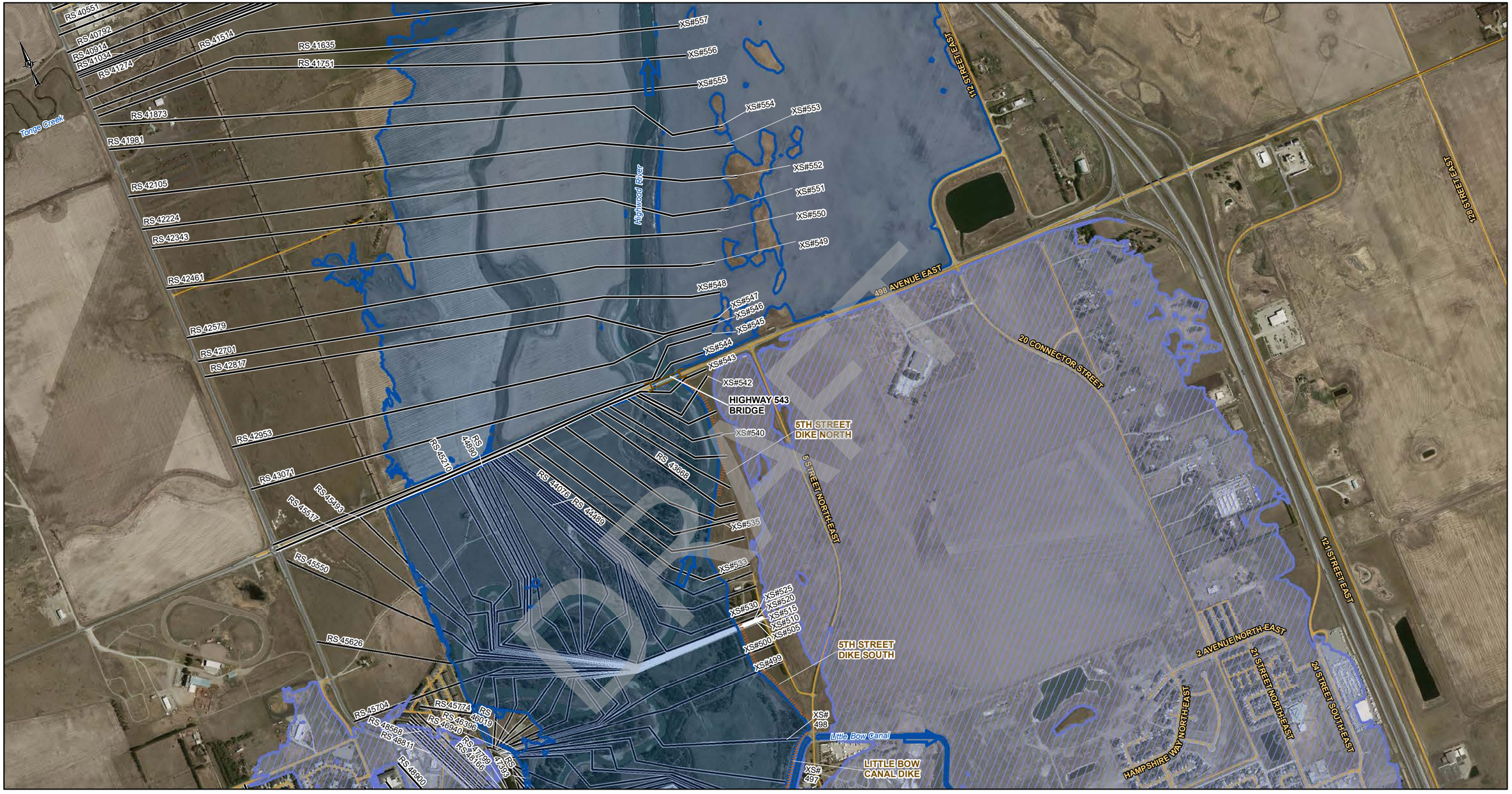
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

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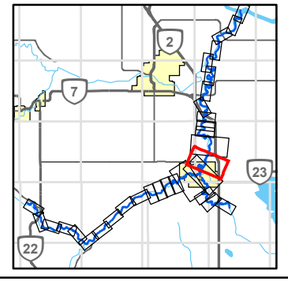
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Classification: Public

SHEET 18 ↑



SHEET 16 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S

0 250 500

1:15000 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 17 of 33

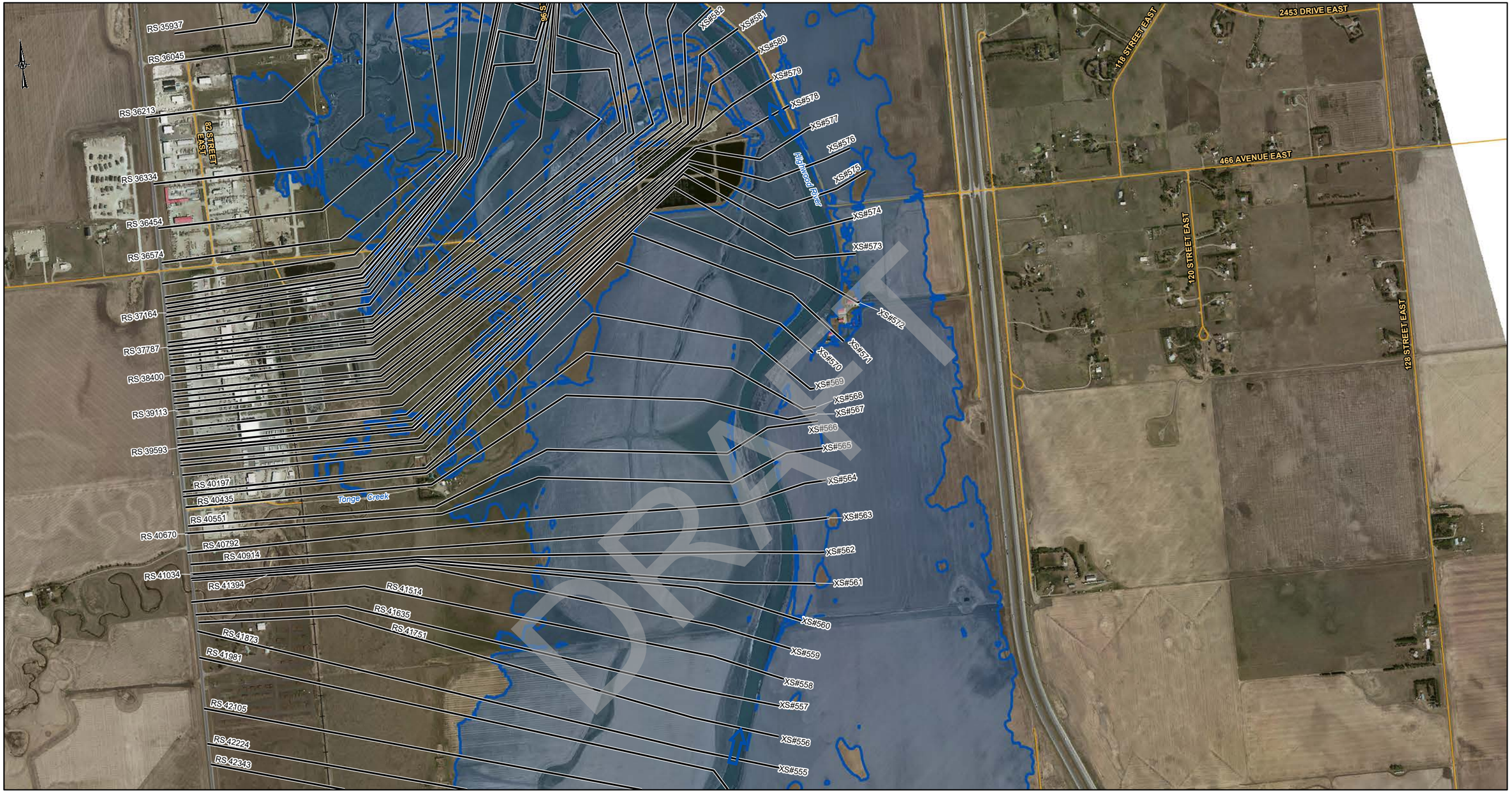
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25mm

Classification: Public

SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

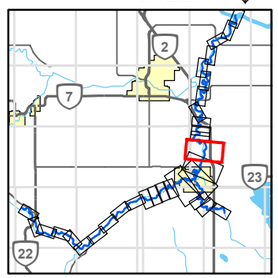
100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S

SHEET 17 ↓



0 250 500

1:15000 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

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Classification: Public

SHEET 20 ↑



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SHEET 18 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

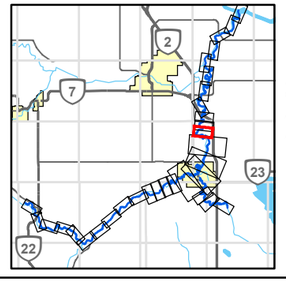
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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SHEET 21 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

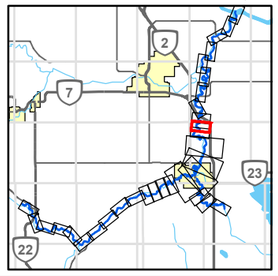
100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S

SHEET 19 ↓



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 22 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

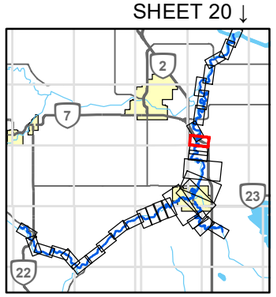
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 21 ↑

SHEET 23 ↓

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

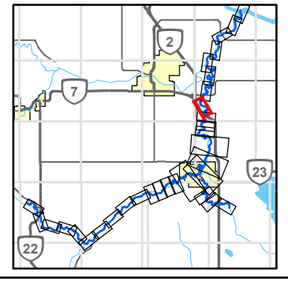
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

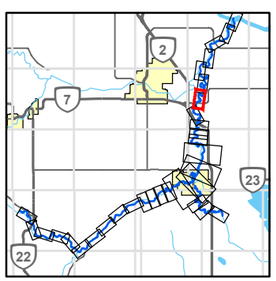
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

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25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

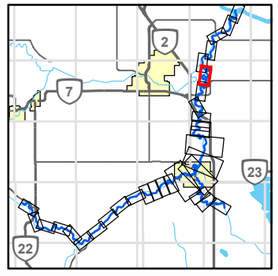
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

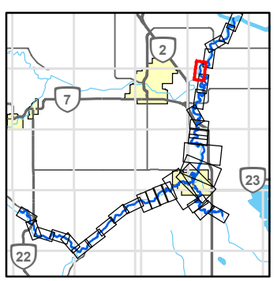
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2009 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

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25mm
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Classification: Public

SHEET 25 ↑

SHEET 27 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

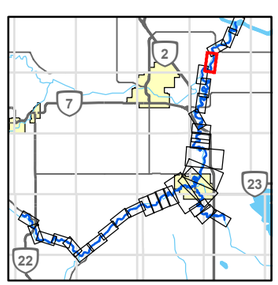
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2009 M^3/S



0 250 500

1:7500 METRES

CLIENT
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

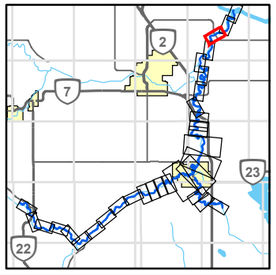
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2009 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100y-Inundation_Rev0.mxd

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0 25mm

Classification: Public



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

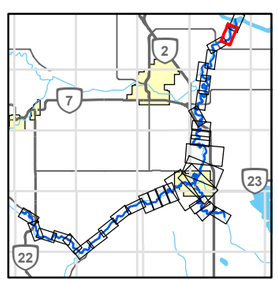
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2009 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

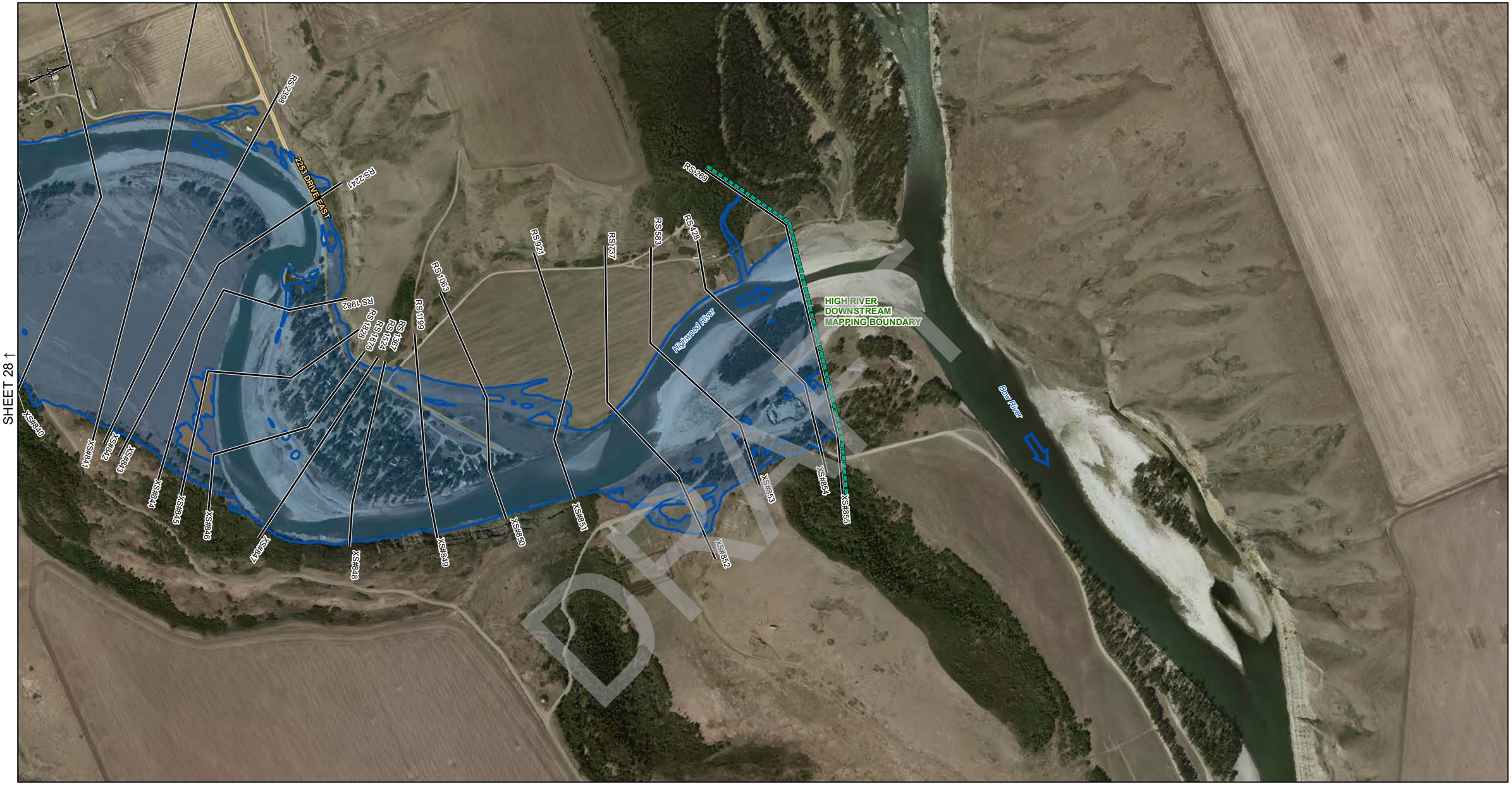
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Classification: Public

SHEET 28 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

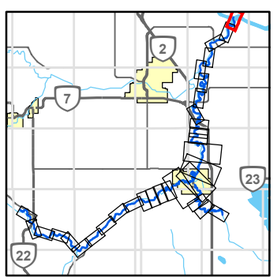
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2009 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

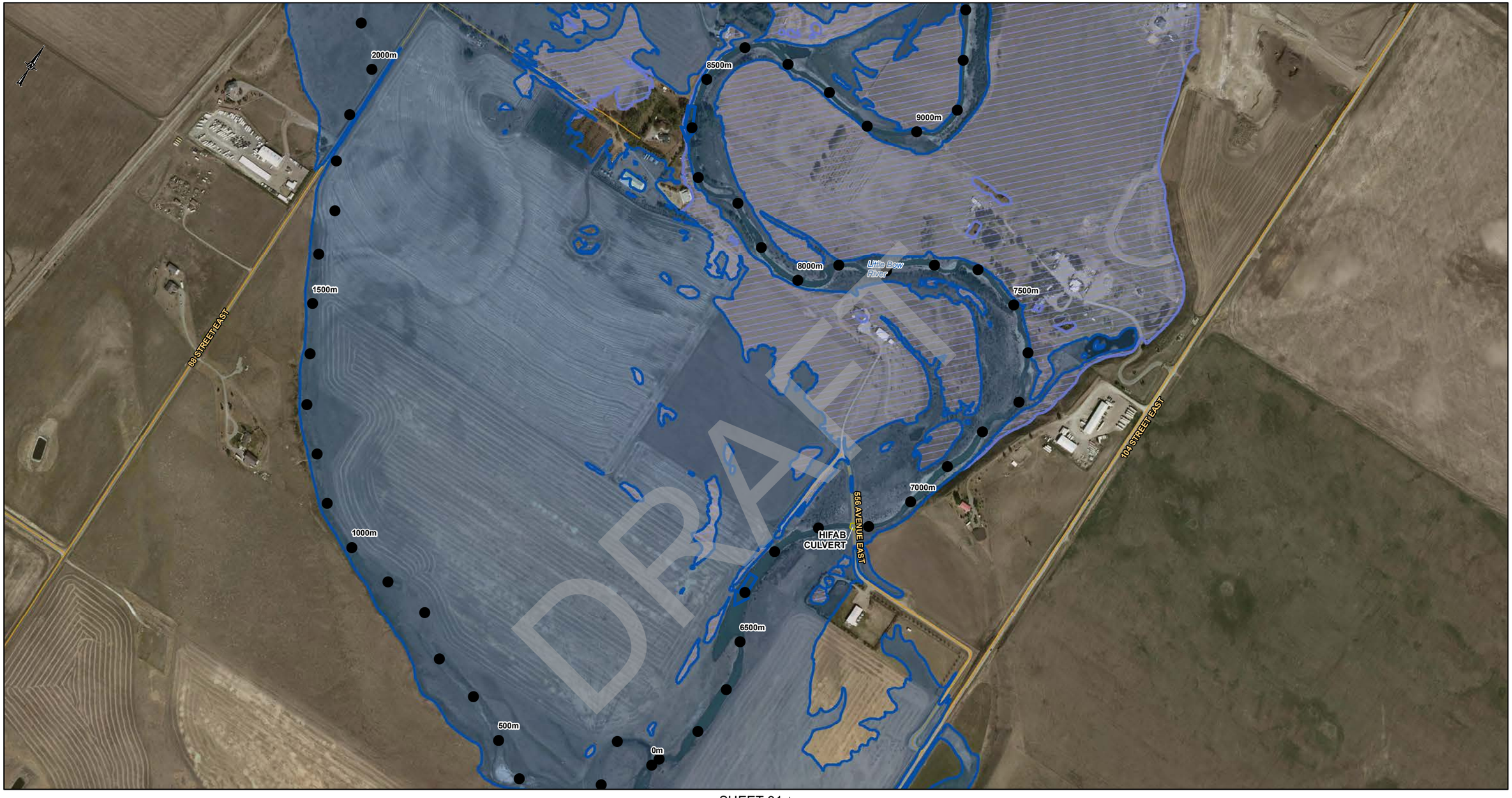
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET15 ↑

SHEET 16 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

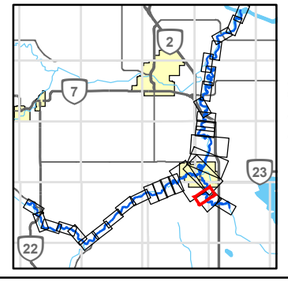
100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 402 M^3/S

SHEET 31 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

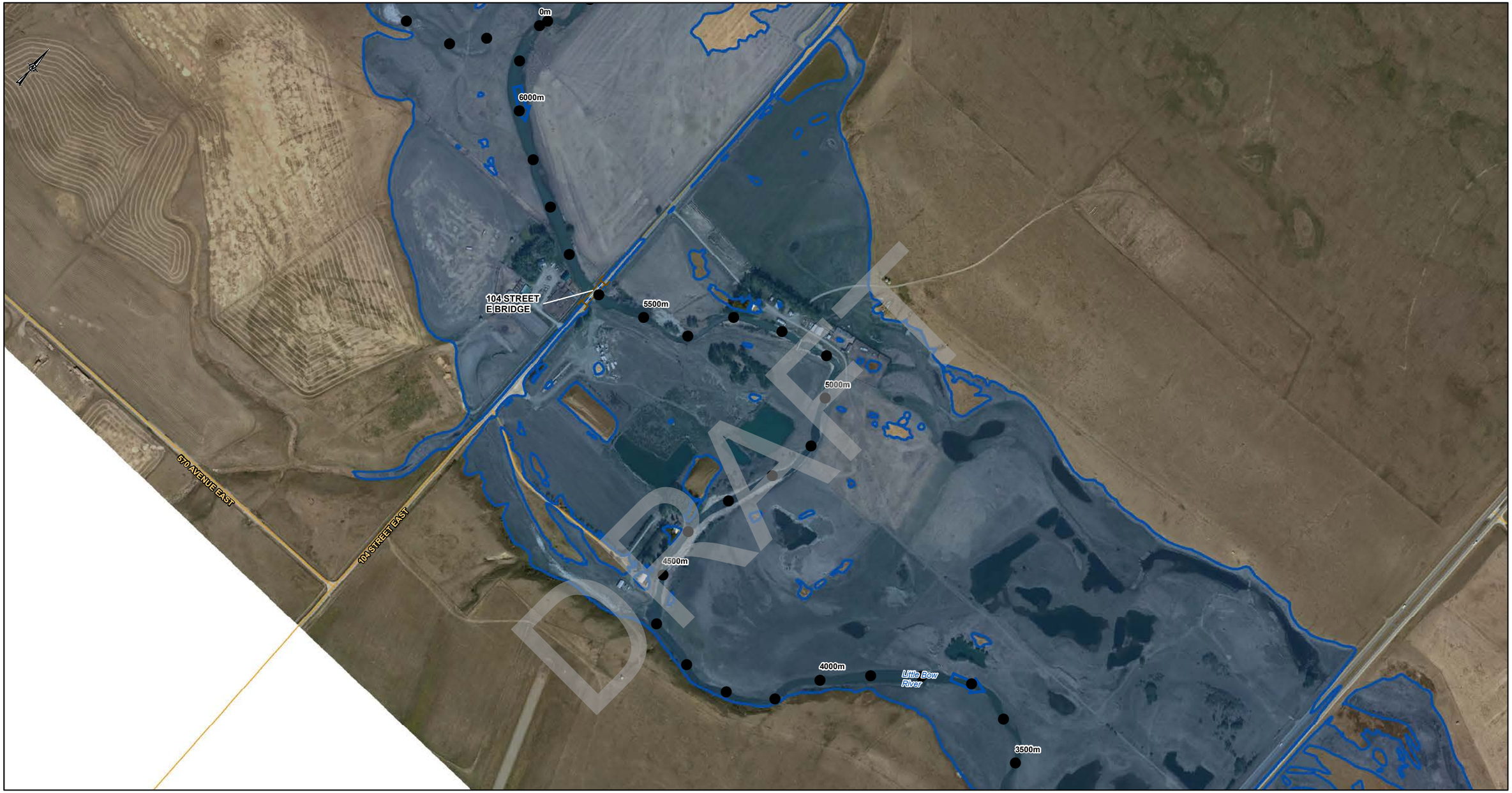
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Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

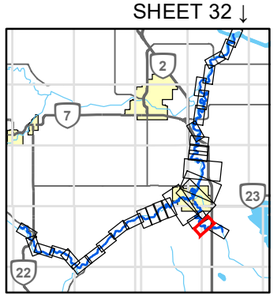
100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 402 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

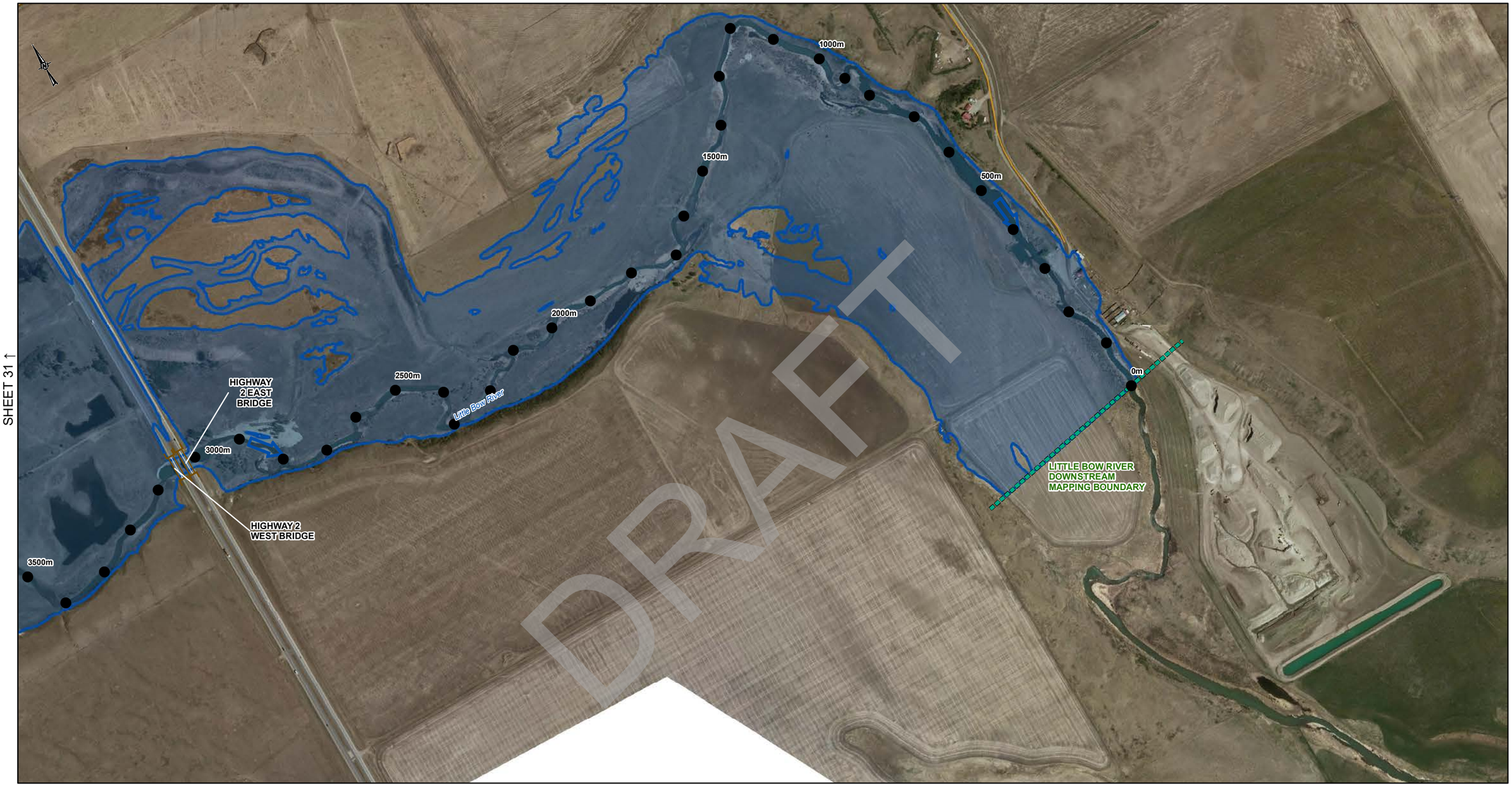
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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

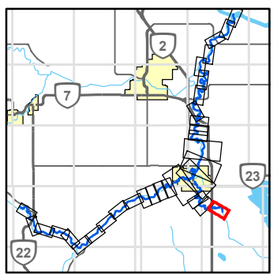
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 402 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

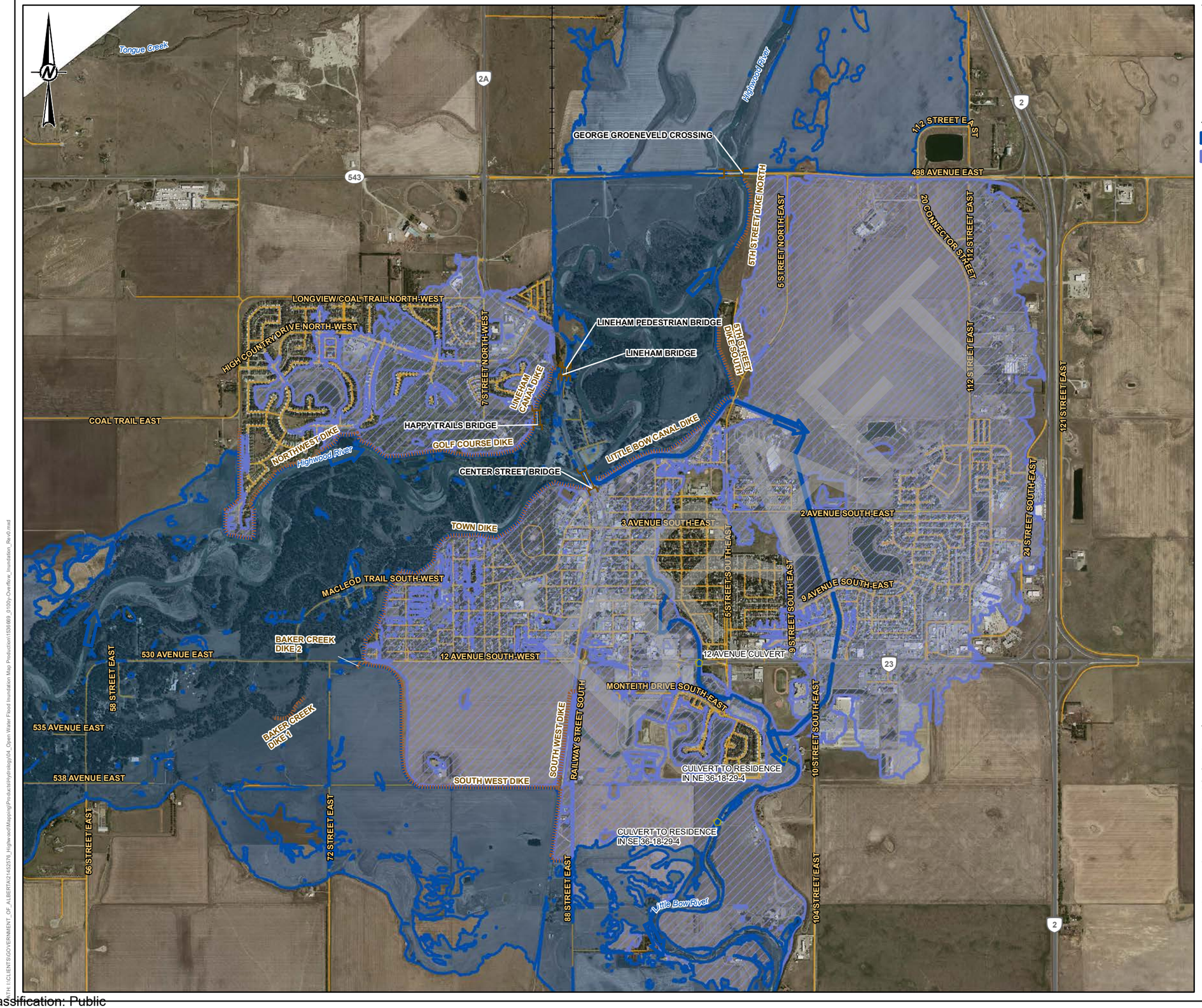
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



LEGEND

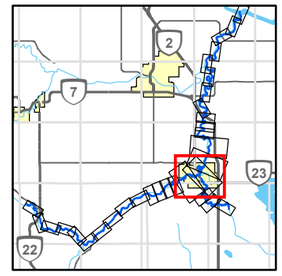
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

- 100-YEAR FLOOD EXTENT
- 100-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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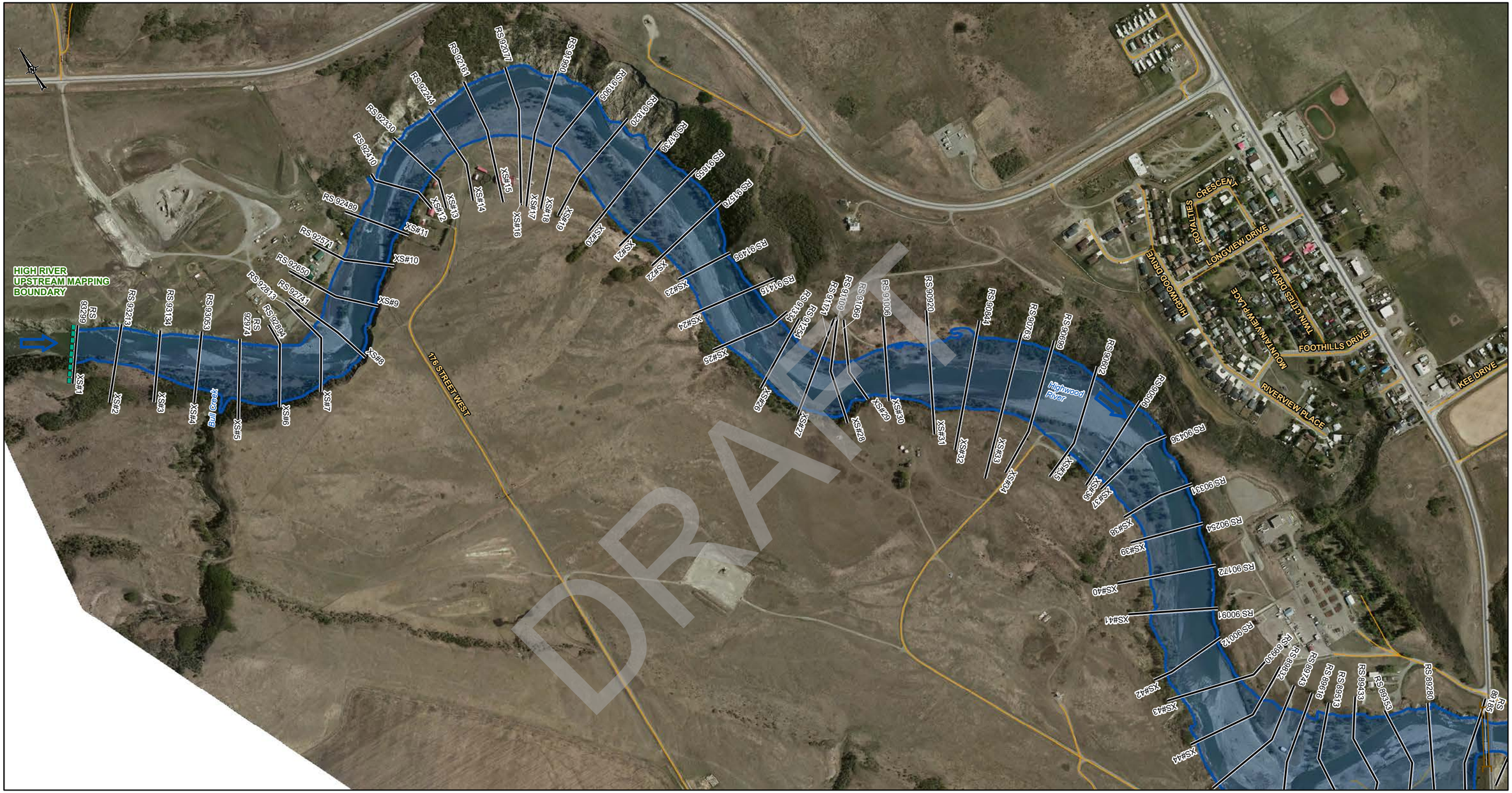
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Classification: Public

200-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

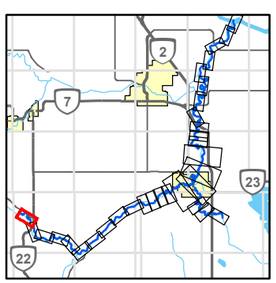
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

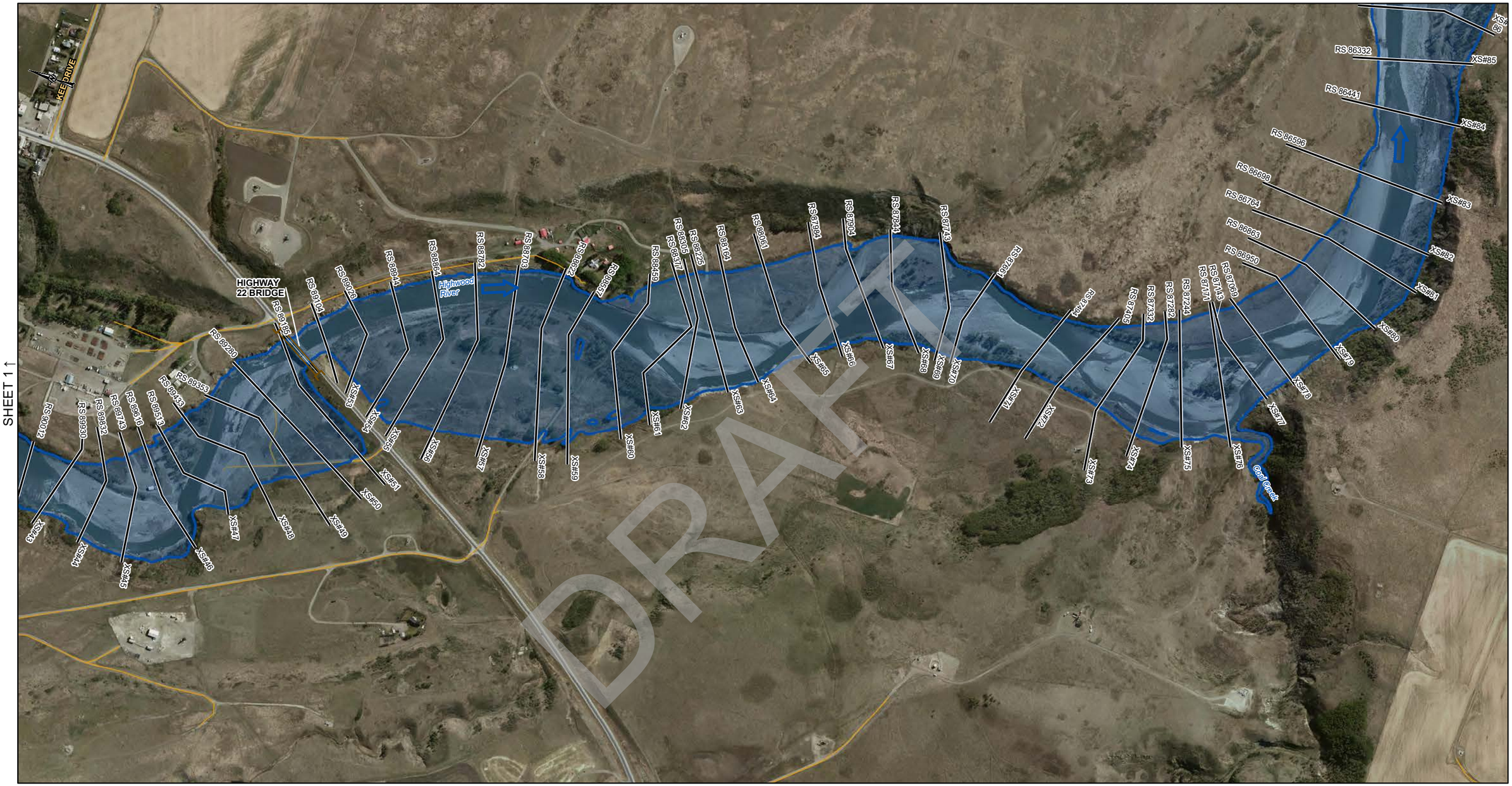
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

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25mm 0

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

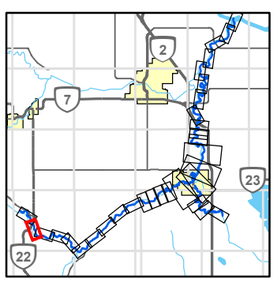
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

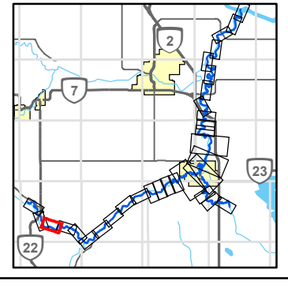
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

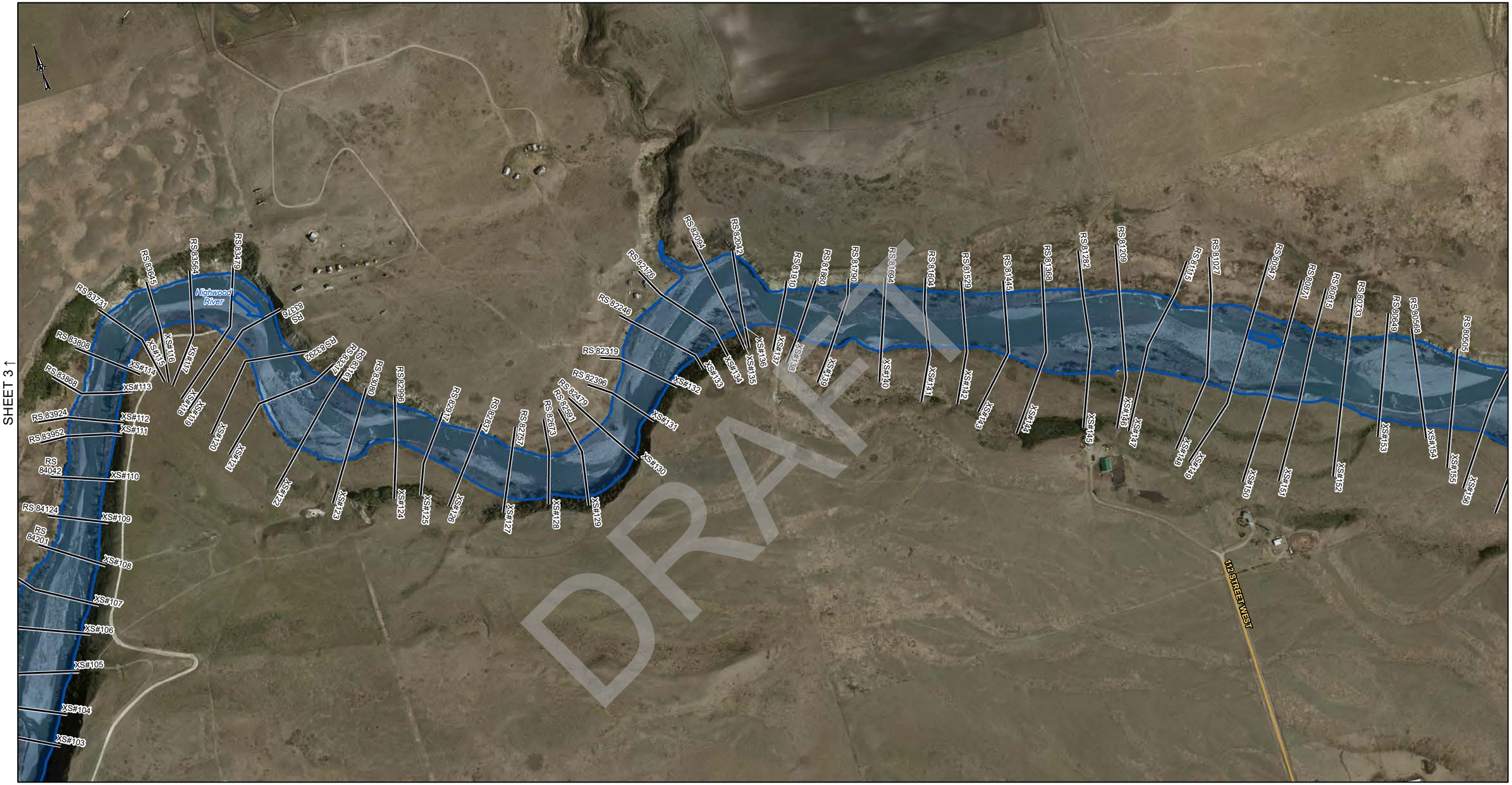
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Classification: Public

SHEET 3 ↑

SHEET 5 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

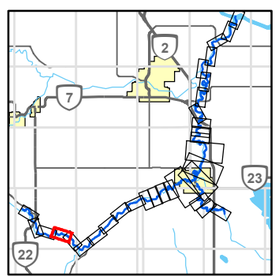
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

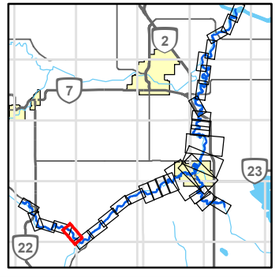
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

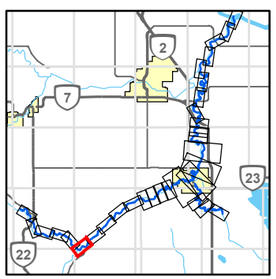
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

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SHEET 6 ↑

SHEET 8 ↓



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LEGEND

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- SECONDARY HIGHWAY
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

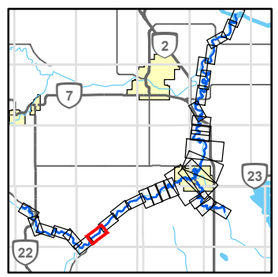
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

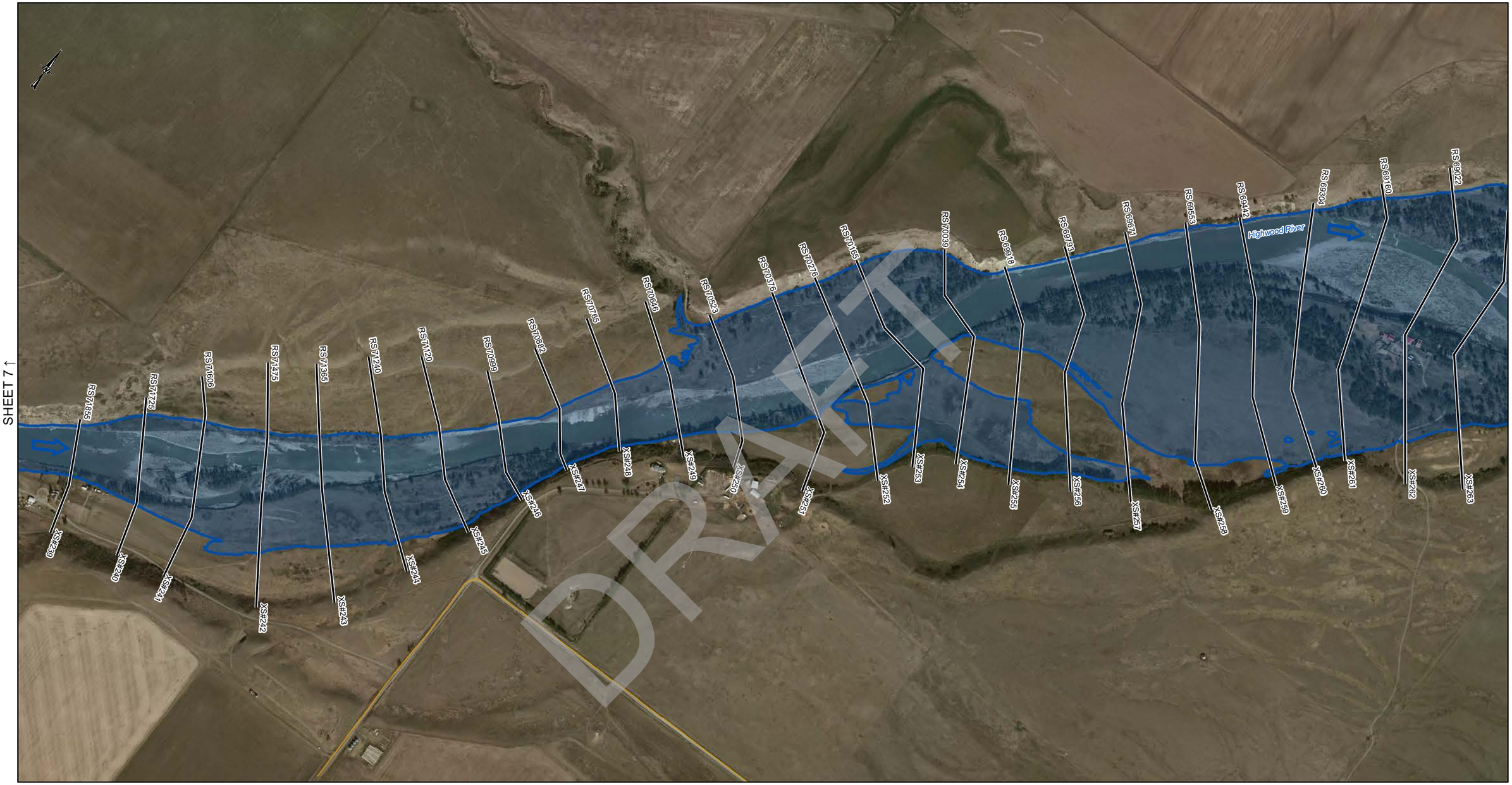
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LEGEND

- 2D DOMAIN PROFILE STATION
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

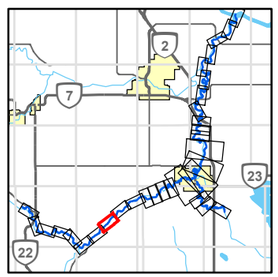
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

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LEGEND

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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

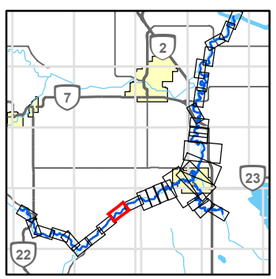
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500

1:7500 METRES

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

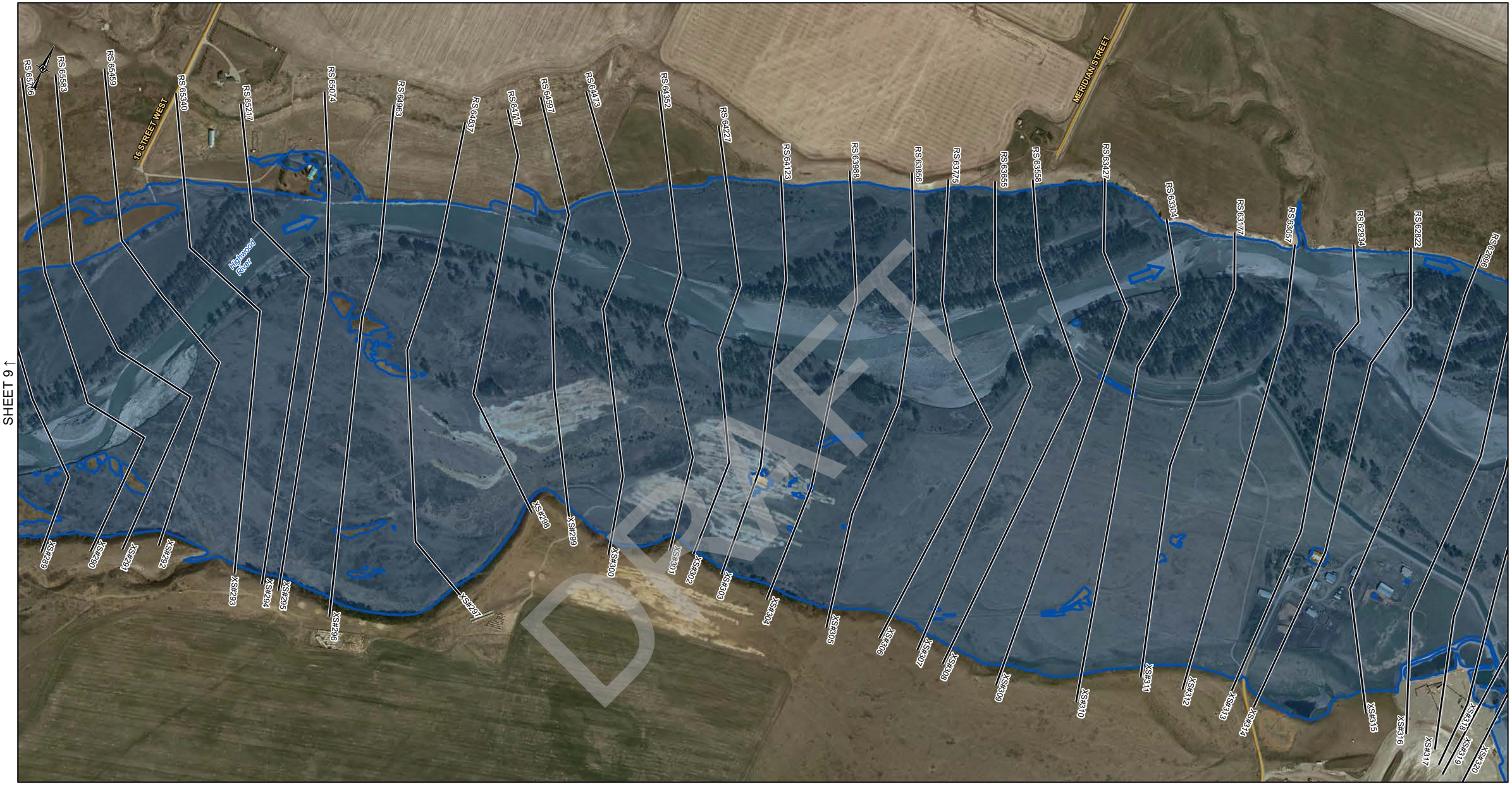
TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

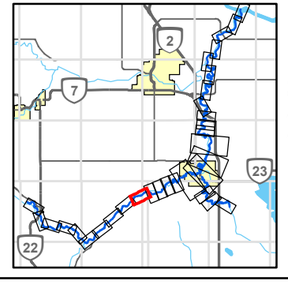
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

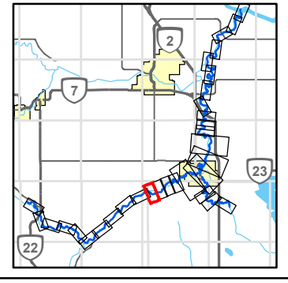
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 962 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 1640 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

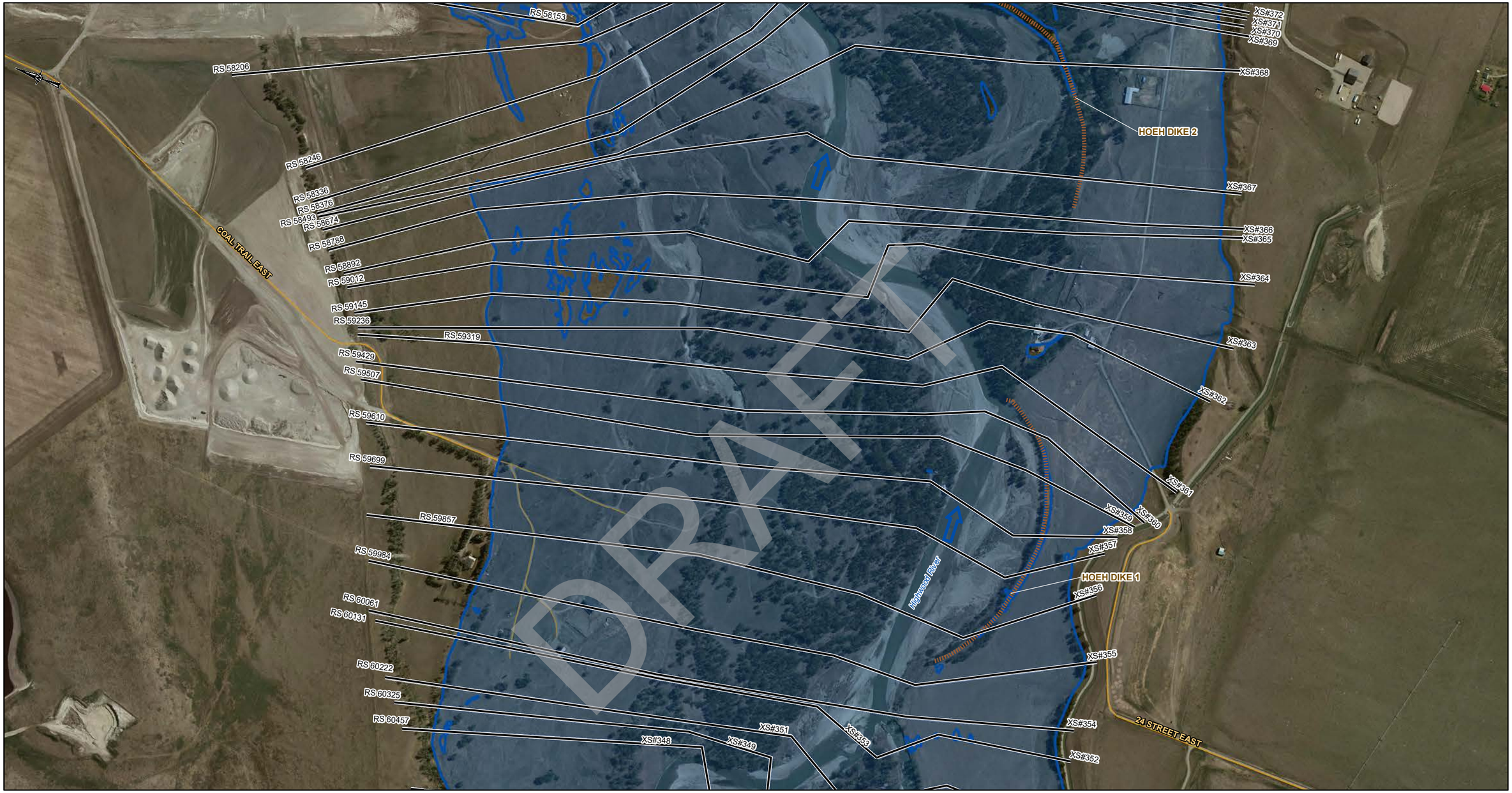
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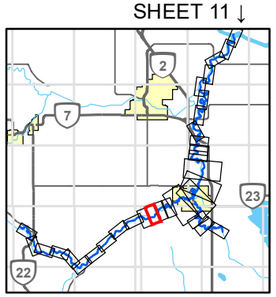
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Classification: Public

SHEET 13 ↑



SHEET 11 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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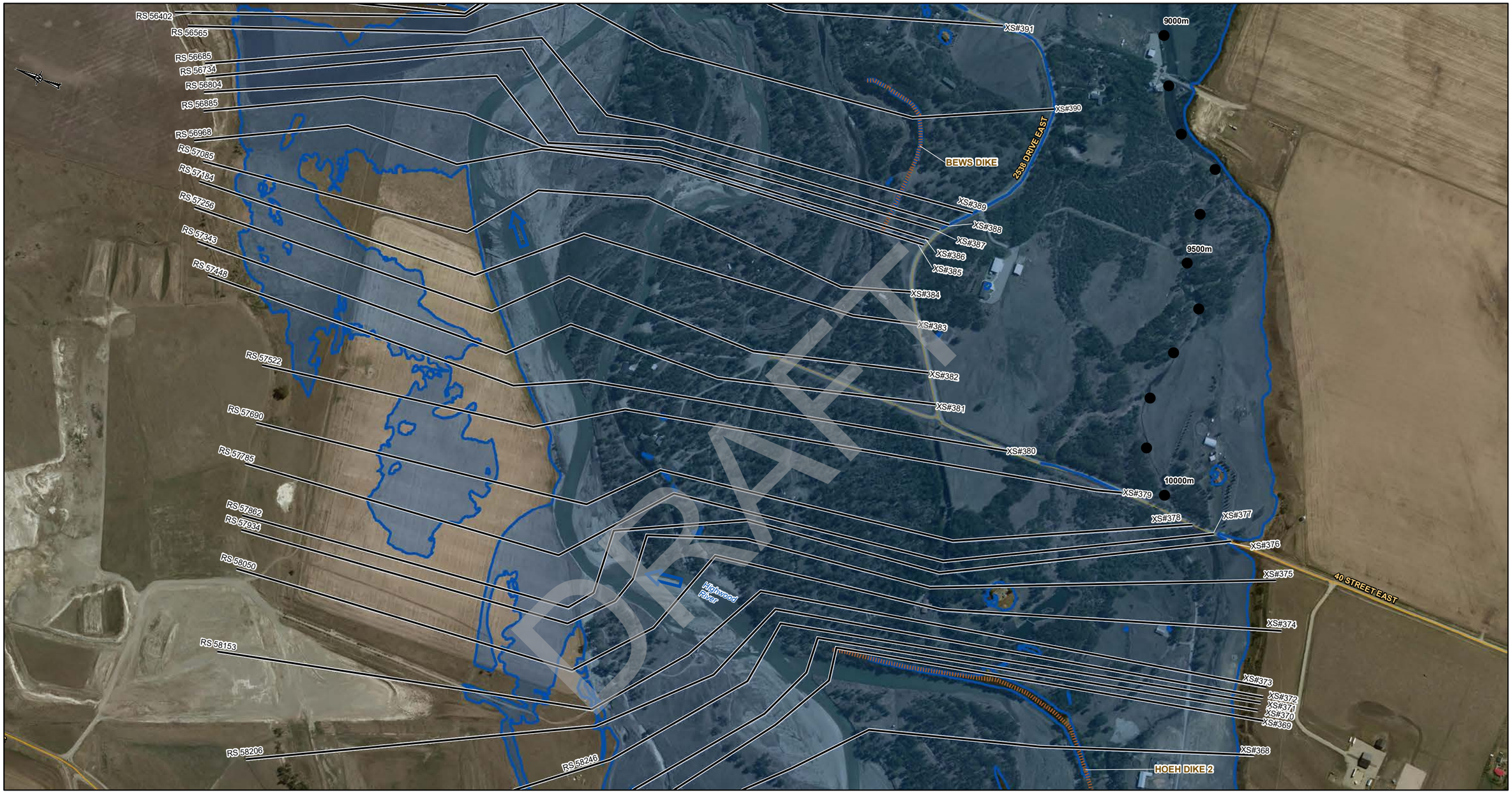
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25mm

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Classification: Public

SHEET 14 ↑



SHEET 12 ↓

LEGEND

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- CROSS SECTION
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- RAILWAY
- FLOOD CONTROL STRUCTURE

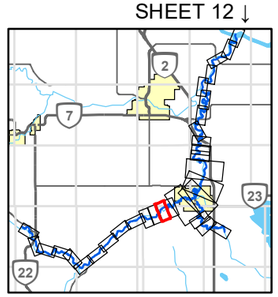
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

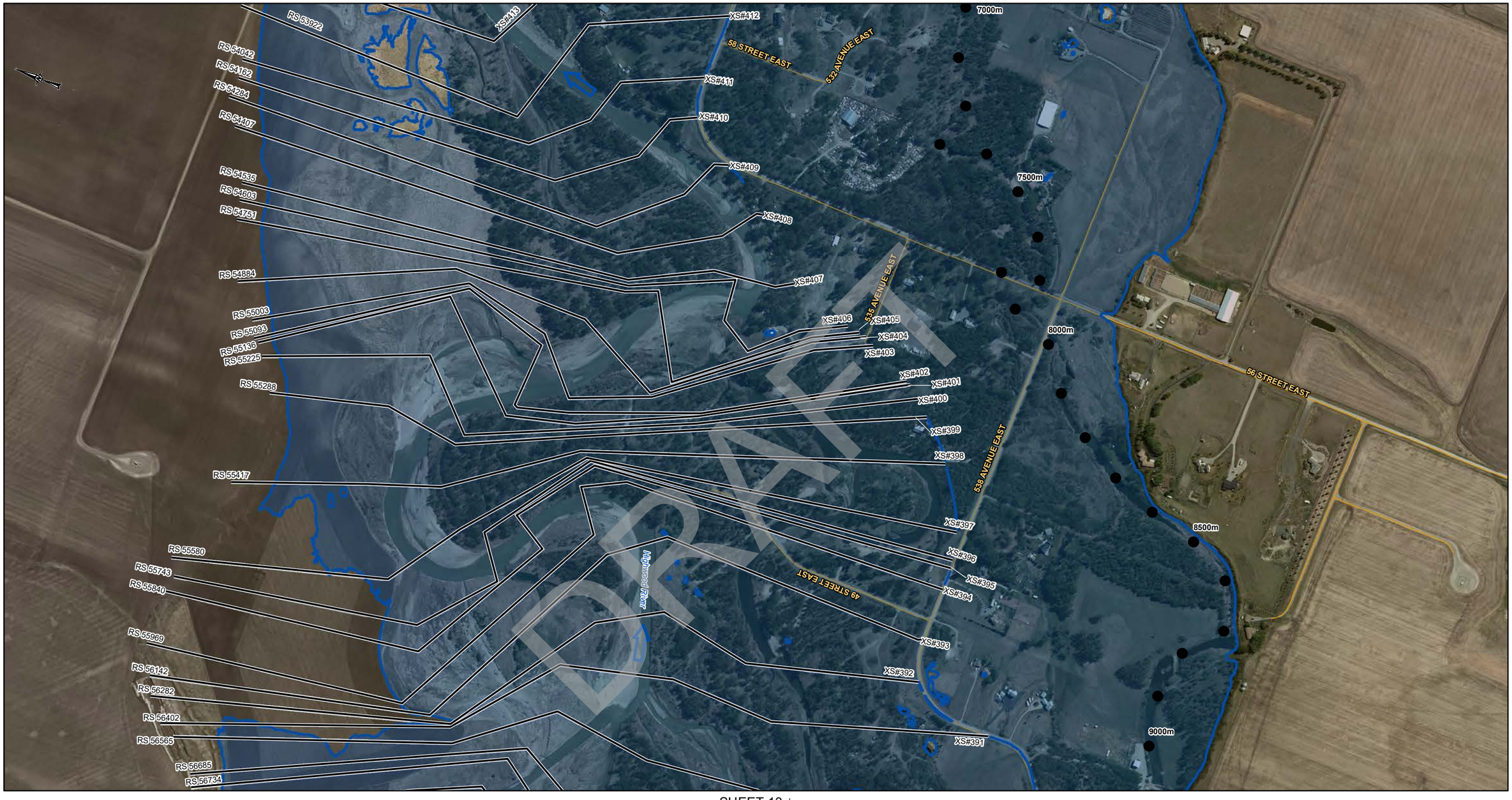
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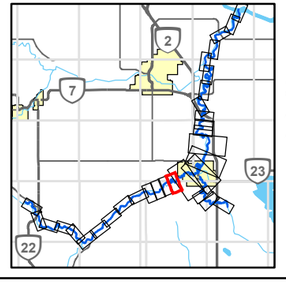
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Classification: Public

SHEET 15 ↑



SHEET 13 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S

0 250 500

1:7500 METRES

CLIENT

ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER

MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

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SHEET 30 ↓

SHEET 14 ↓

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9500m
9000m
8500m
3500m
3000m
2500m
2000m
5000m
4000m
5500m
4500m
6000m
6500m
7000m

TOWN DIKE
GOLF COURSE DIKE
NORTHWEST DIKE
SOUTHWEST DIKE
BAKER CREEK DIKE 1

LONGVIEW/COAL TRAIL NORTHWEST
64 STREET EAST
49A AVENUE EAST
RIVERSIDE DRIVE NORTHWEST
12 AVENUE SOUTHWEST
88 STREET EAST
COAL TRAIL EAST
48 STREET EAST
530A AVENUE EAST
72 STREET EAST
Highwood River
Little Bow River

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

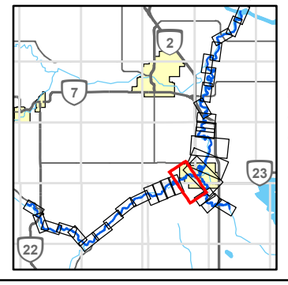
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



0 250 500
1:15000 METRES

REFERENCE(S)
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CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

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SHEET 30 ↓

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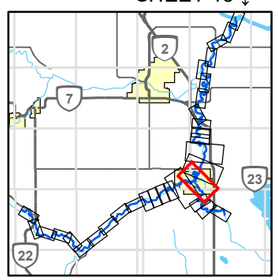
Highwood River
Little Bow Canal

5TH STREET DIKE
LINEHAM PEDESTRIAN BRIDGE
LINEHAM BRIDGE
LINEHAM CANAL DIKE
LITTLE BOW CANAL DIKE
HAPPY TRAILS BRIDGE
FLOOD GATES
CENTRE STREET BRIDGE
GOLF COURSE DIKE
TOWN DIKE
12 AVENUE CULVERT
5TH STREET SE BRIDGE
CULVERT TO RESIDENCE IN NE 36-18-29-4
CULVERT TO RESIDENCE IN SE 36-18-29-4
10A STREET EAST
Little Bow River

HIGH COUNTRY DRIVE NORTH-WEST
RIVERSIDE DRIVE NORTH-WEST
HAMPSHIRE VALLEY NORTH-EAST
SUNSHINE TRAIL SOUTH-EAST
21 STREET SOUTH-EAST
121 STREET EAST
2 AVENUE SOUTH-EAST
7 AVENUE SOUTH-EAST
20 STREET SOUTH-EAST
9 AVENUE SOUTH-EAST
4A STREET SOUTH-EAST
6 AVENUE SOUTH-EAST
5 STREET SOUTH-EAST
3 AVENUE SOUTH-EAST
9 STREET SOUTH-EAST
11 AVENUE SOUTH-EAST
10 AVENUE SOUTH-EAST
MONTEITH DRIVE SOUTH-EAST

12500m
12000m
11500m
11000m
10500m
10000m
9500m

SHEET 15 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
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- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

0 250 500
1:15000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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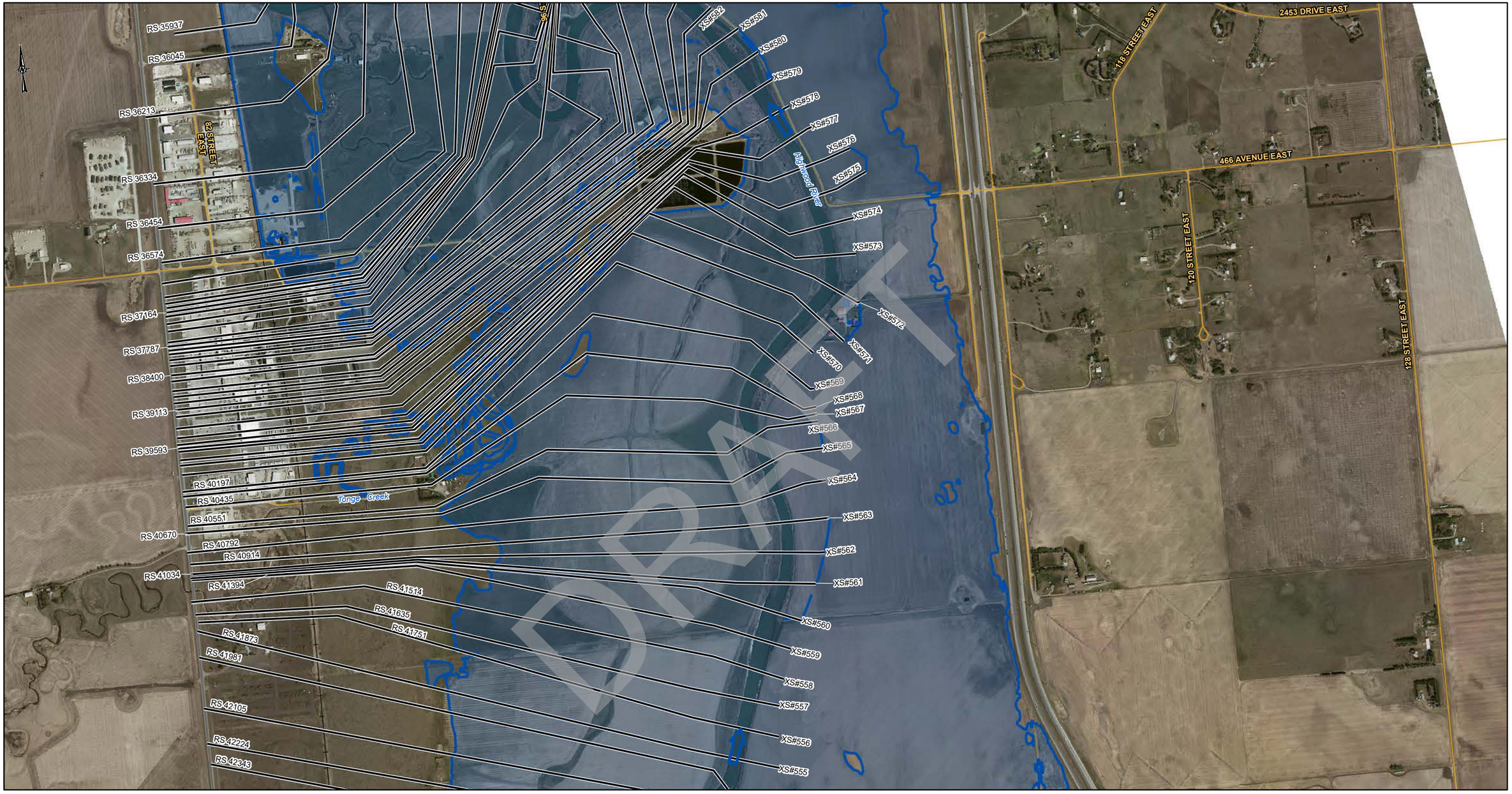
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Classification: Public

SHEET 18 ↑


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RS

SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

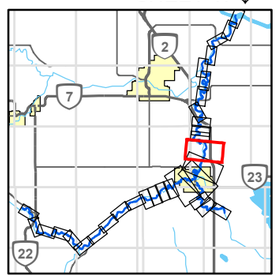
200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

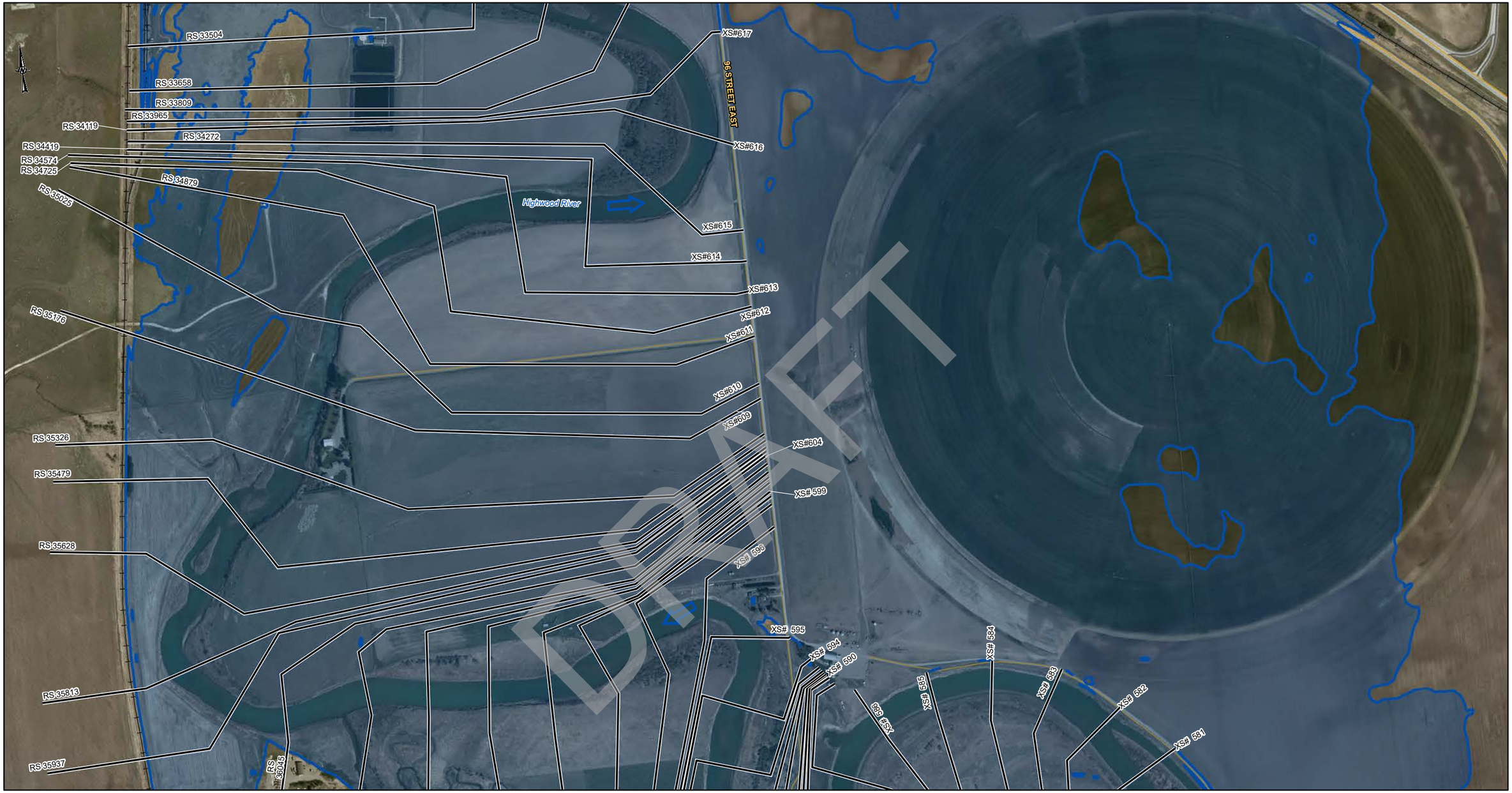
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

Classification: Public

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B
0 25mm

SHEET 20 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

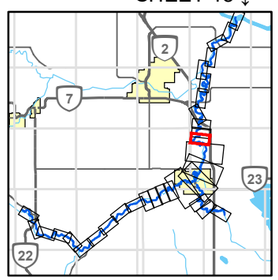
200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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GOLDER
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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 21 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

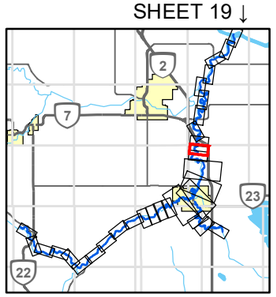
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

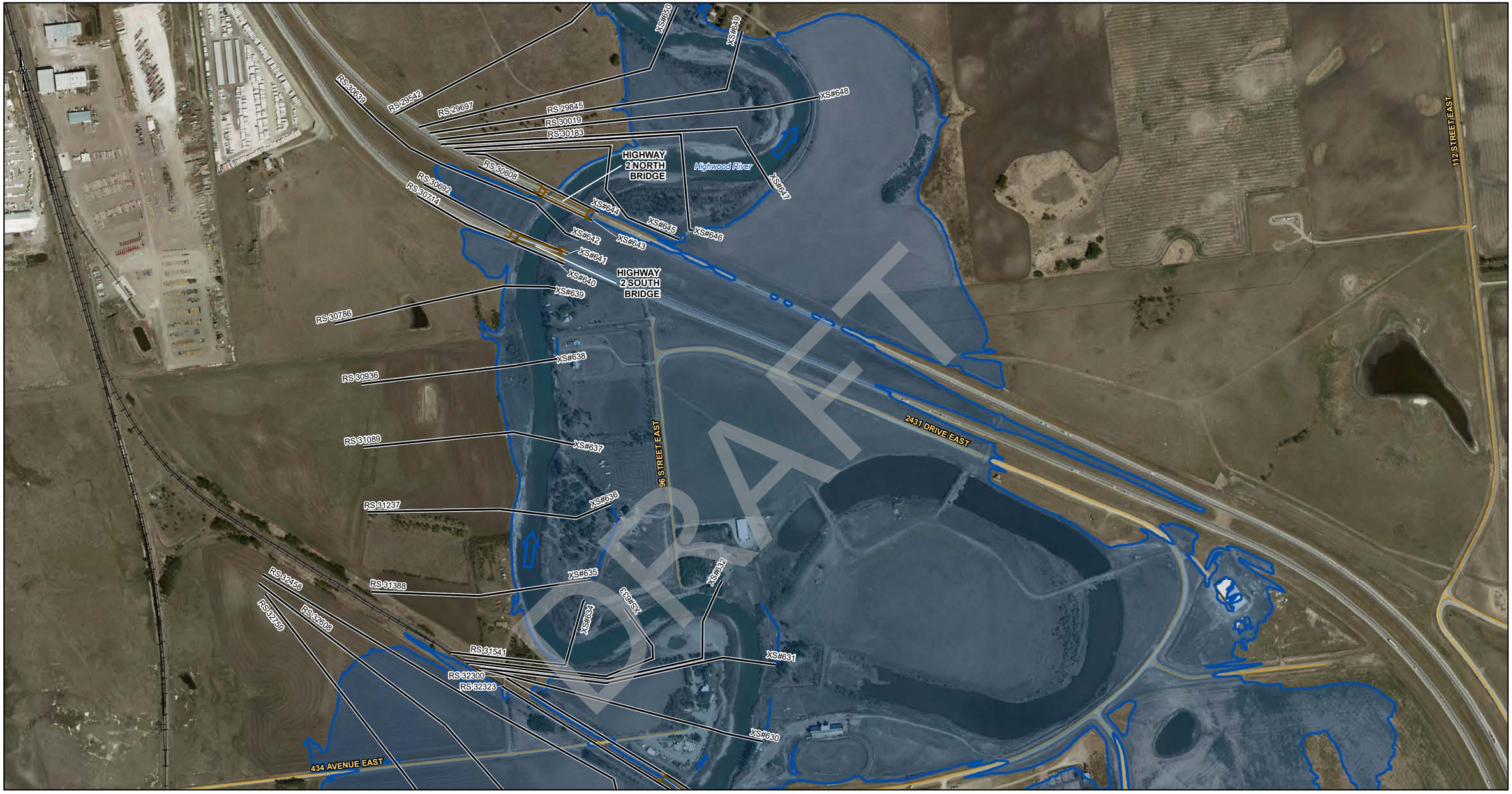
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Classification: Public

SHEET 22 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

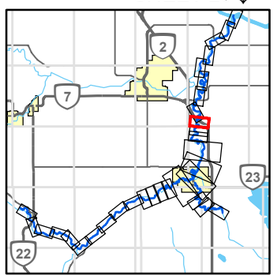
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



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SHEET 21 ↑

SHEET 23 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

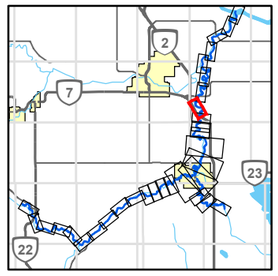
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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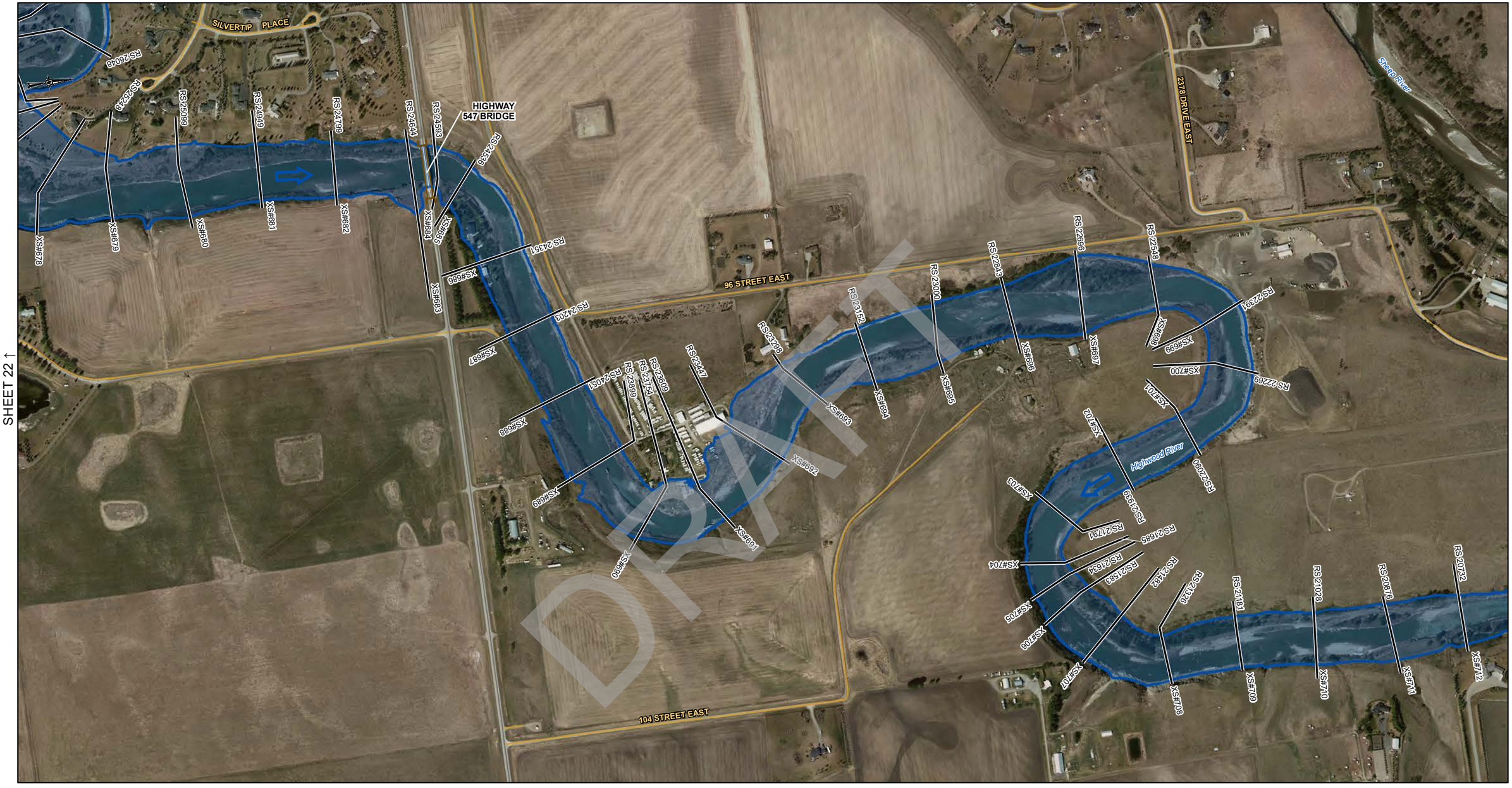
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Classification: Public

SHEET 22 ↑

SHEET 24 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

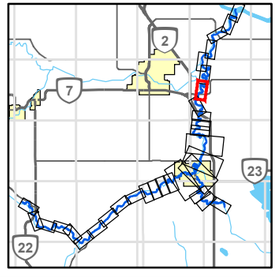
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

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25mm

0

Classification: Public

SHEET 23 ↑

SHEET 25 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

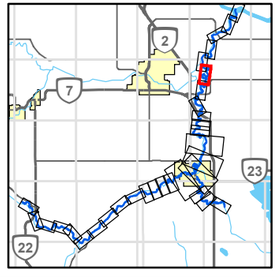
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

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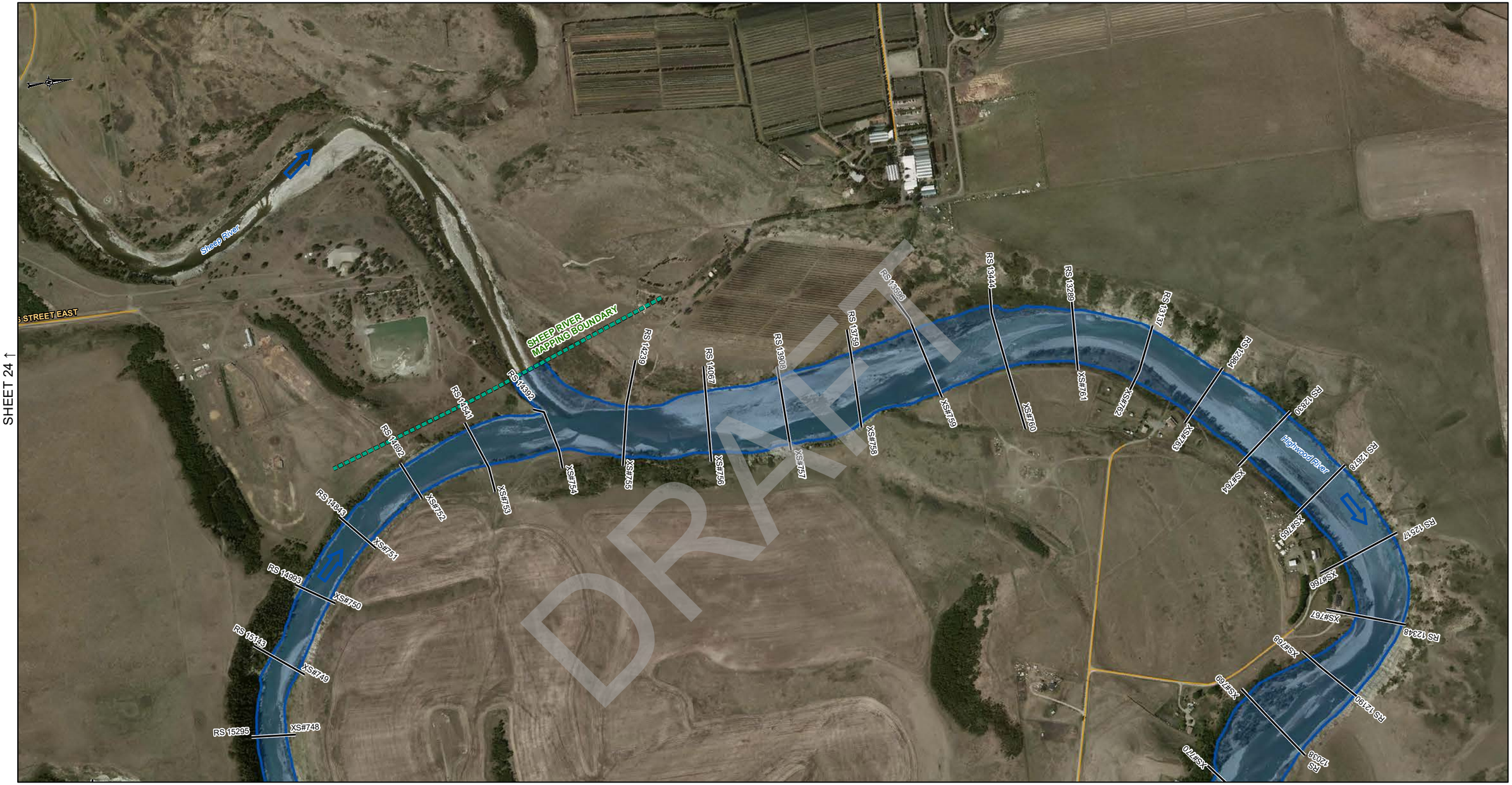
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0 25mm

Classification: Public

SHEET 24 ↑

SHEET 26 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

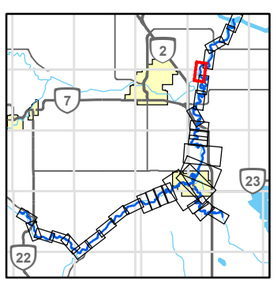
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2960 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

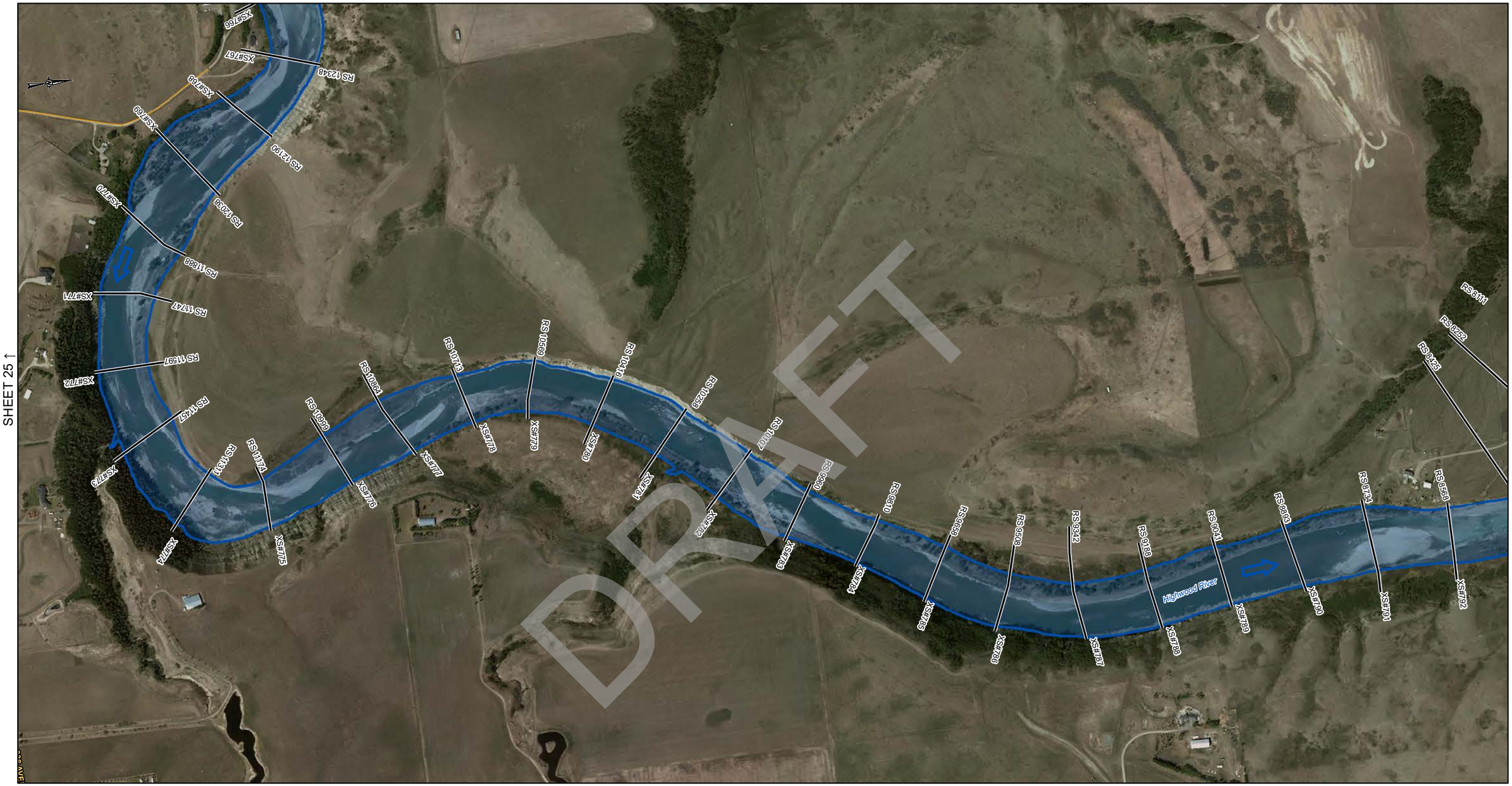
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25mm
0

Classification: Public

SHEET 25 ↑

SHEET 27 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

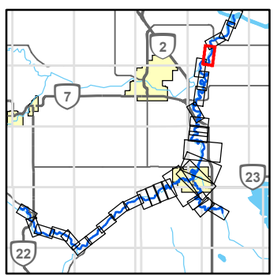
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2960 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

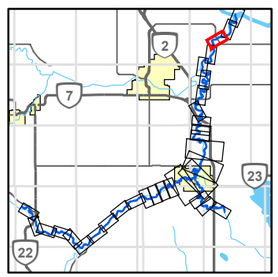
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2960 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

29mm

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Classification: Public

SHEET 27 ↑

SHEET 29 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

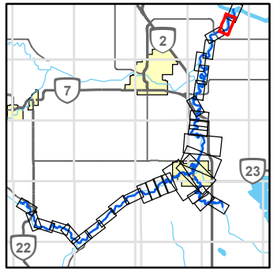
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2960 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

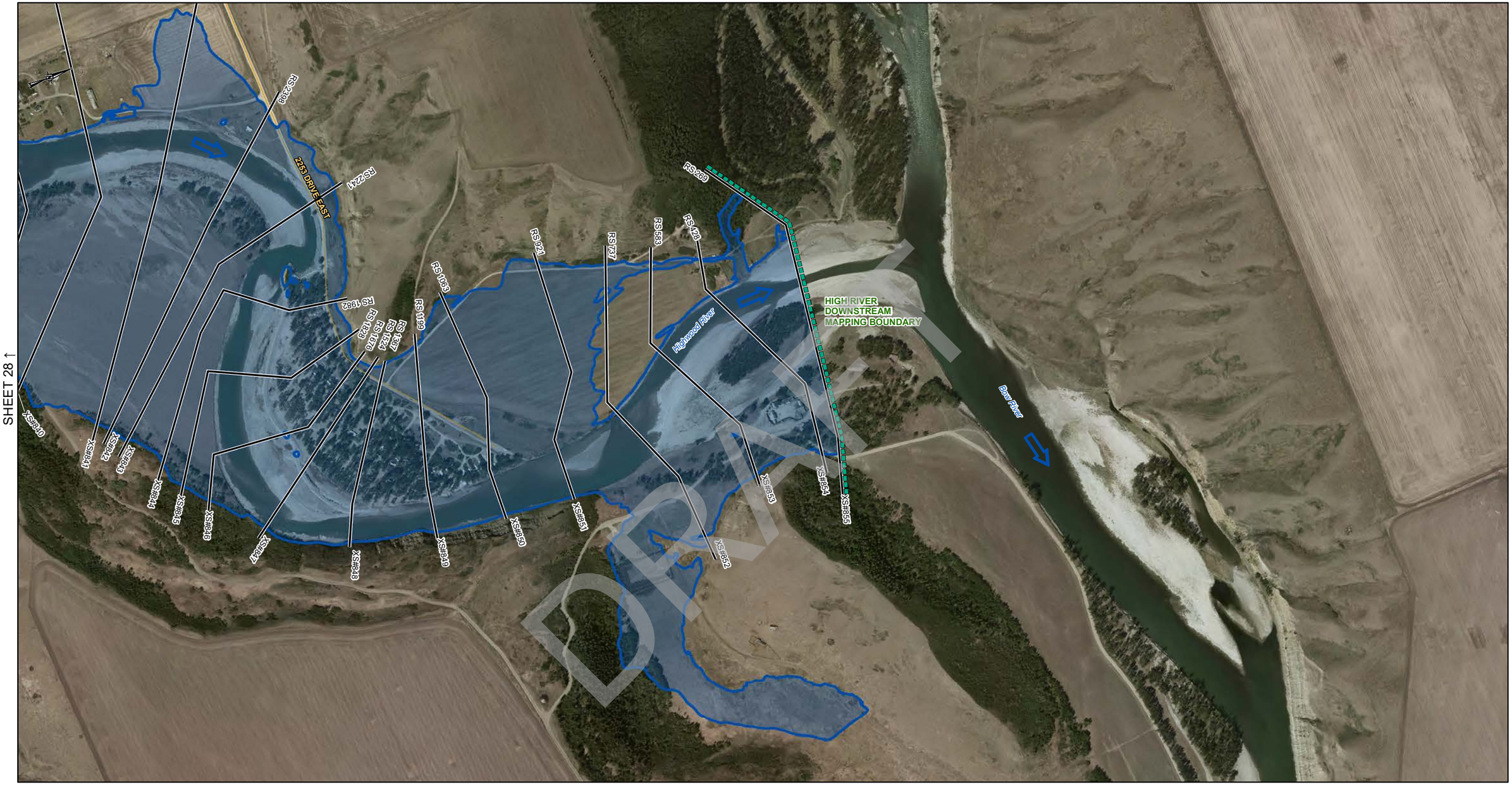
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

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0 25mm

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

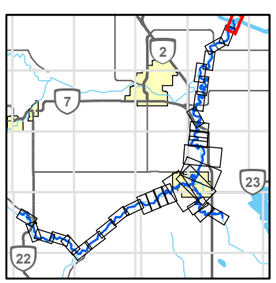
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 2960 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

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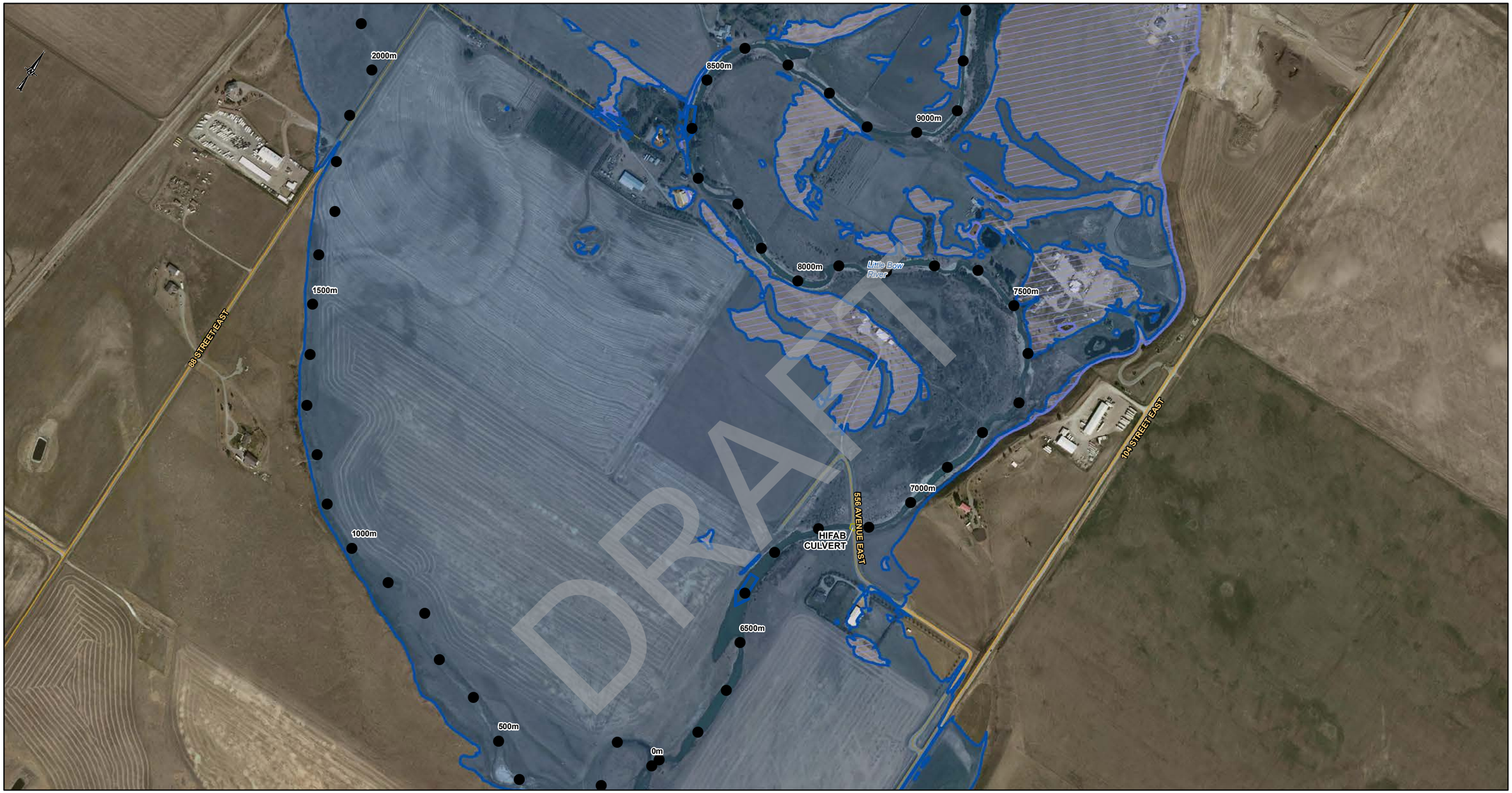
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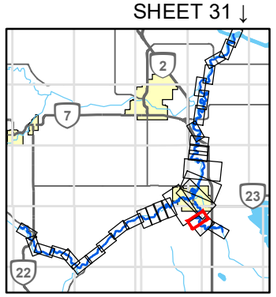
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SHEET15 ↑

SHEET 16 ↓



SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 769 M^3/S

0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

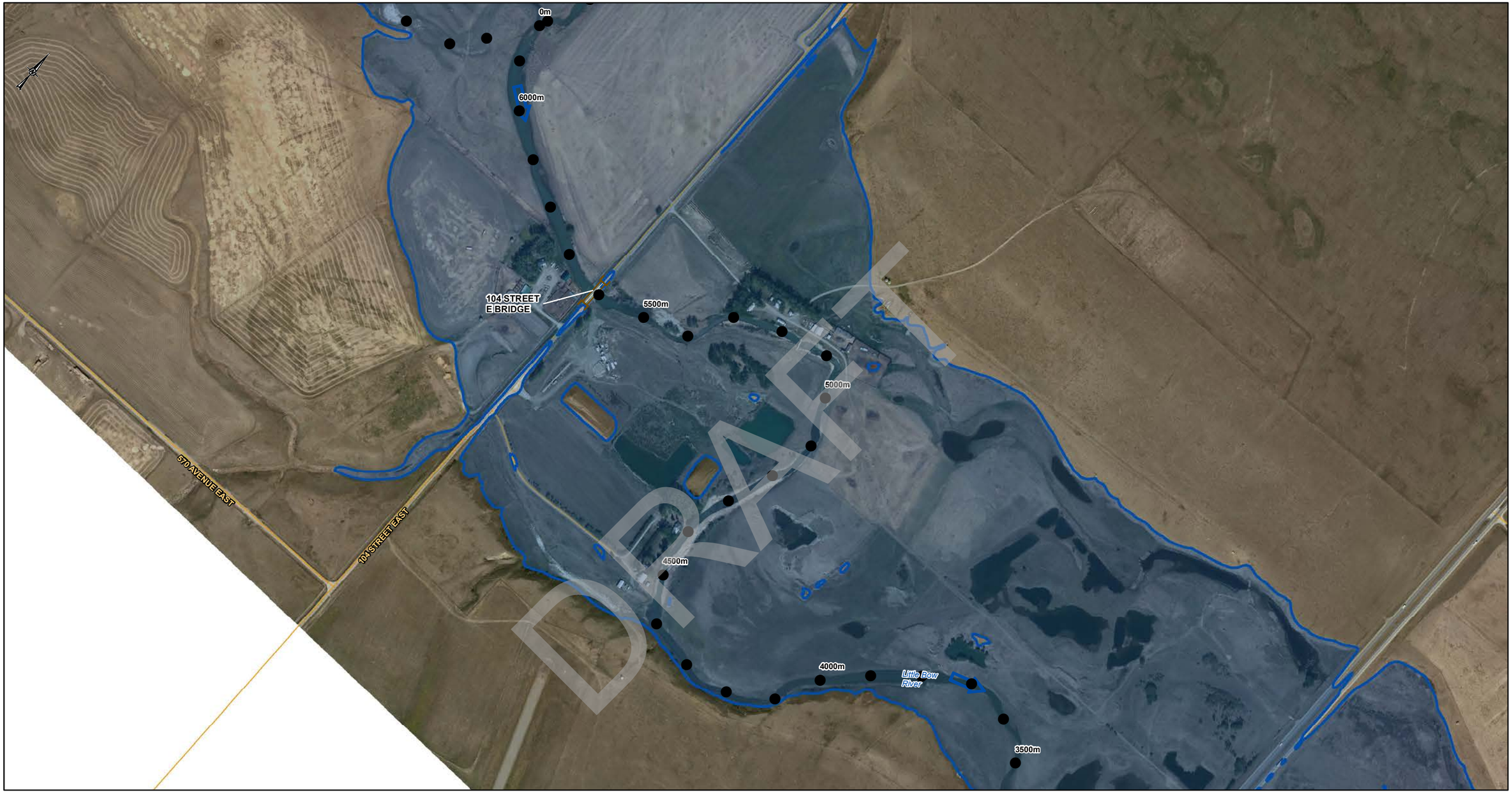
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0 25mm

Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

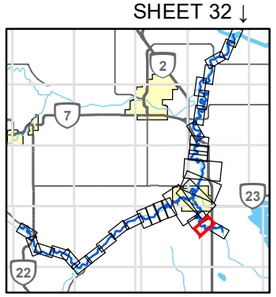
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 769 M^3/S

SHEET 32 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

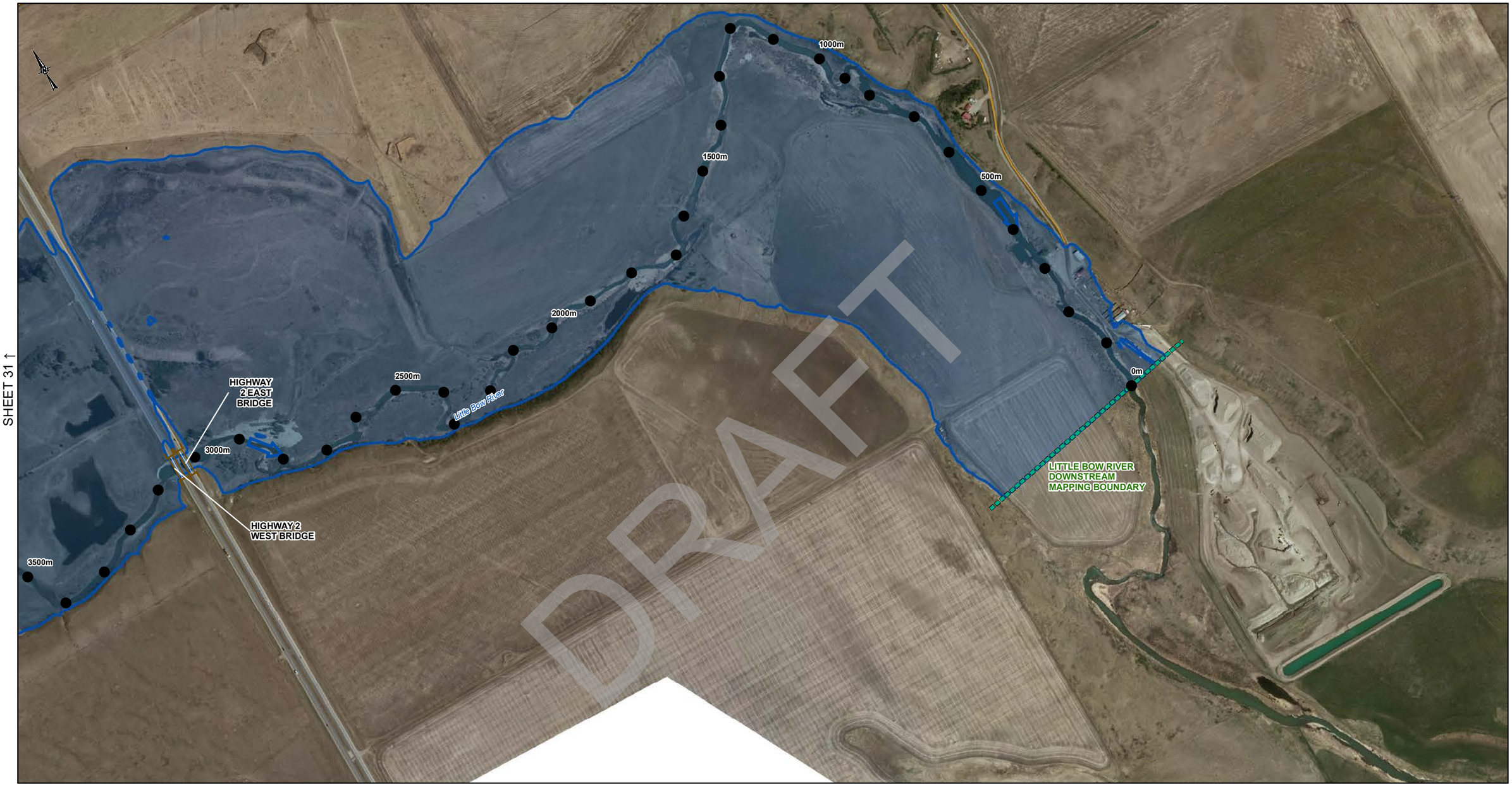
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Classification: Public



SHEET 31 ↑

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

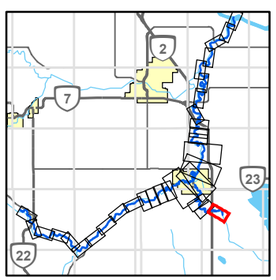
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 769 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

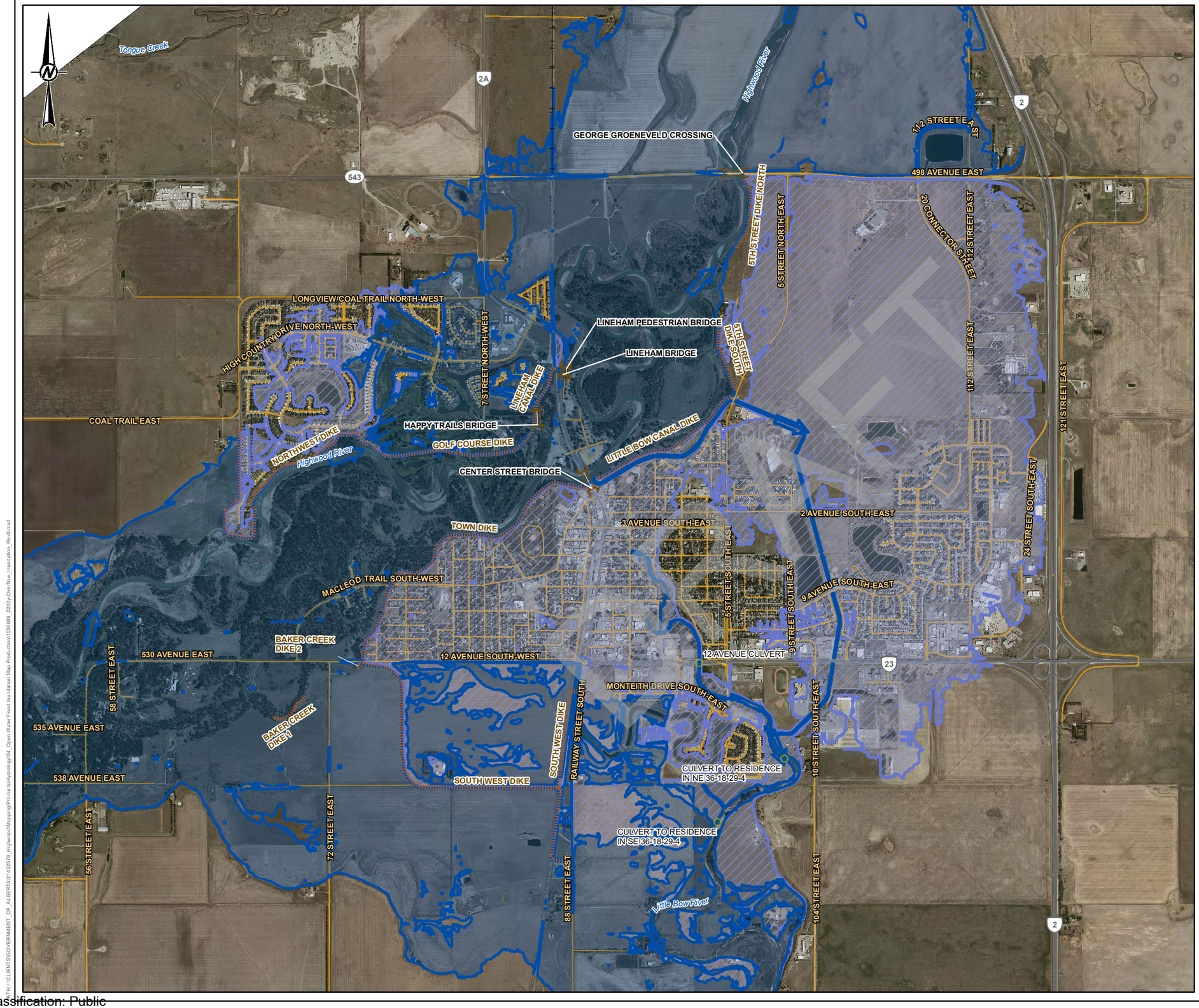
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25mm

0

Classification: Public



LEGEND

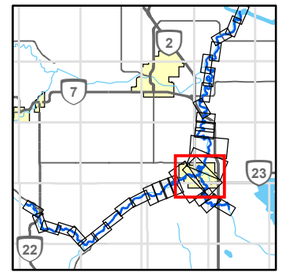
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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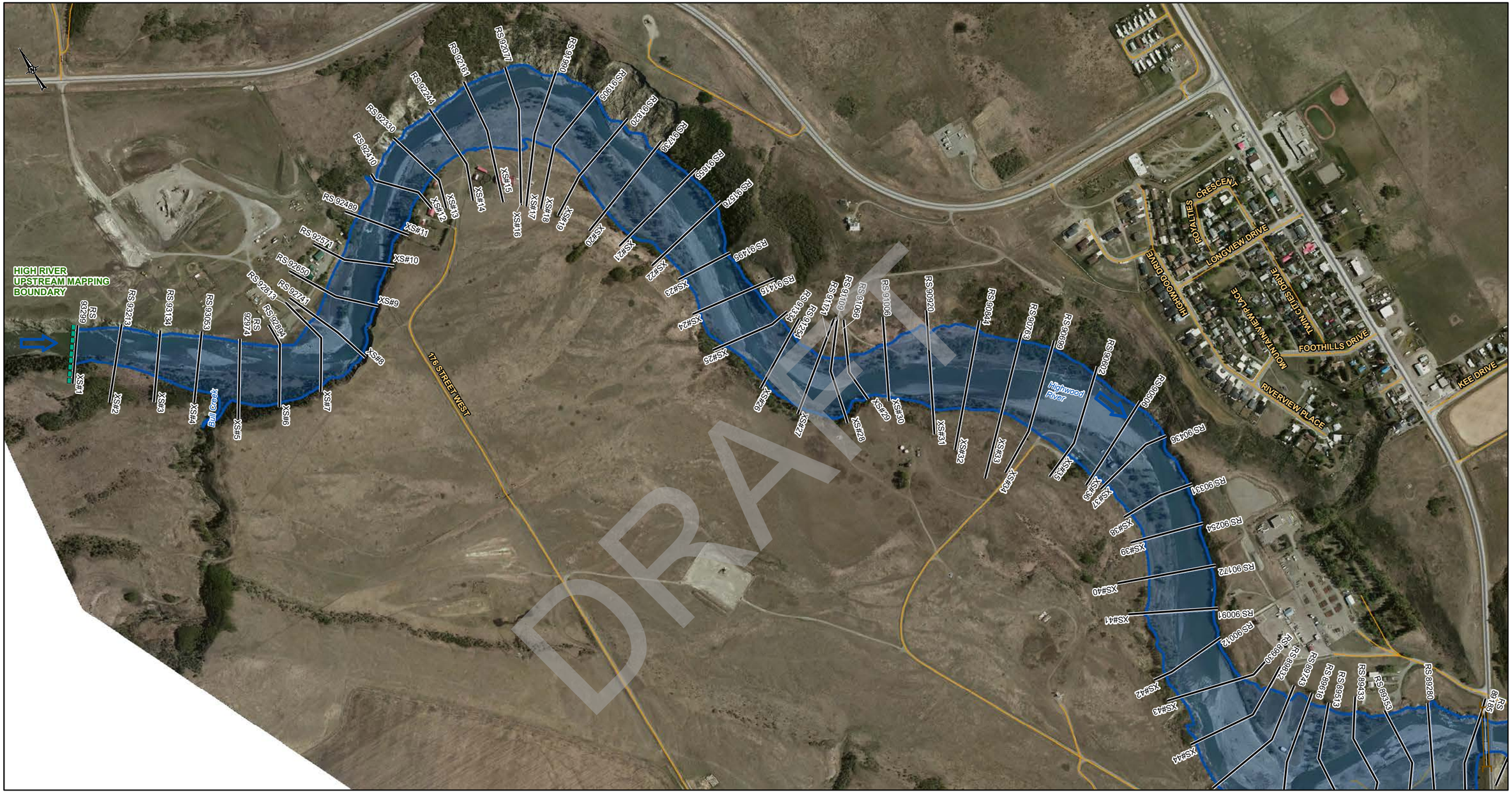
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Classification: Public

350-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

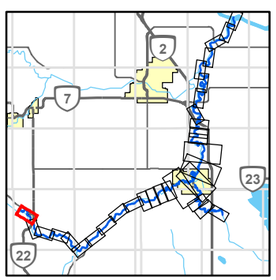
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2330 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

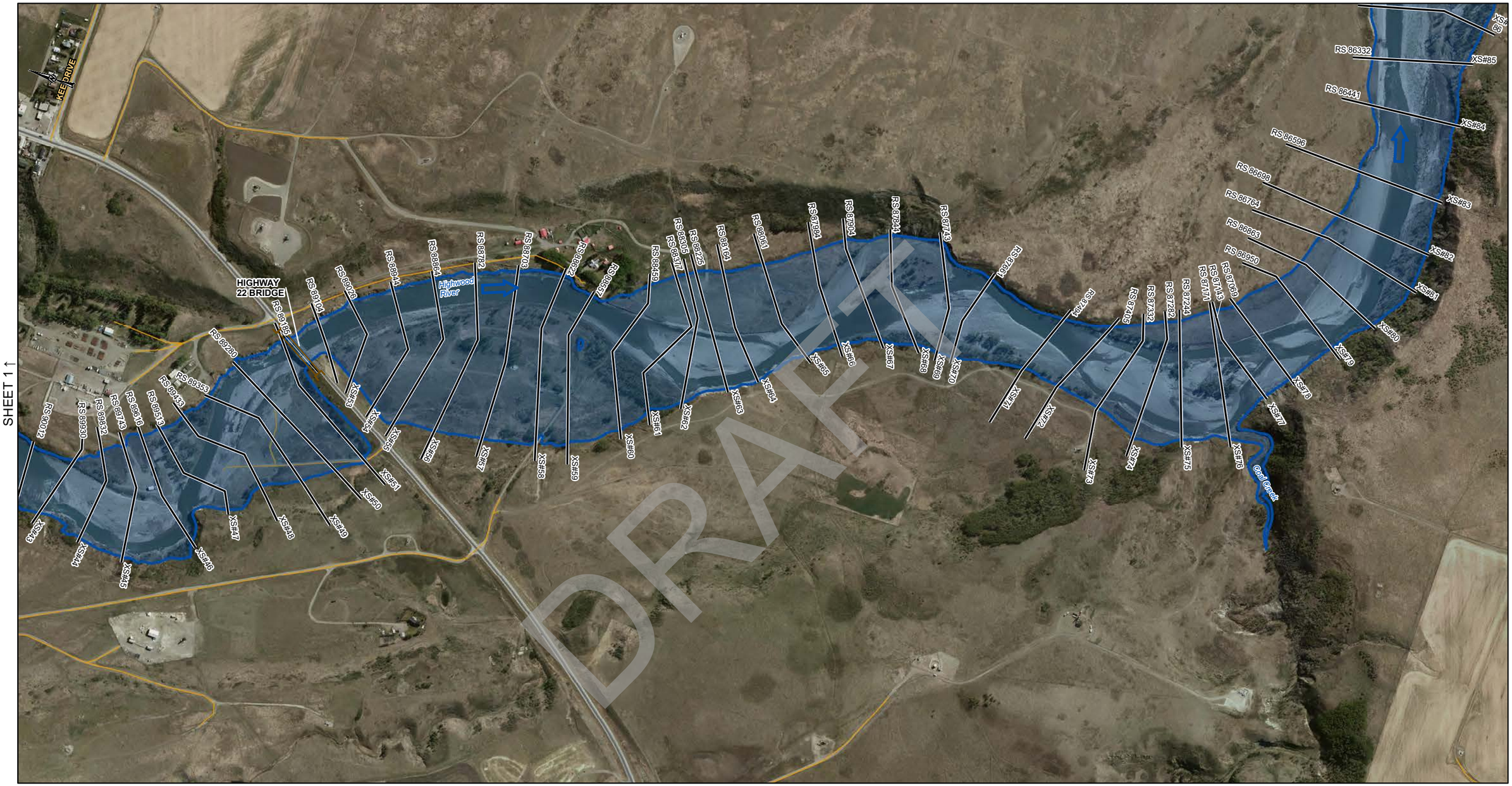
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

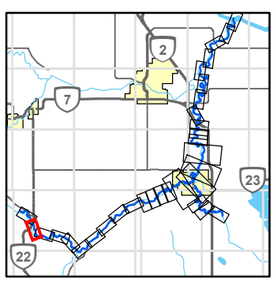
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
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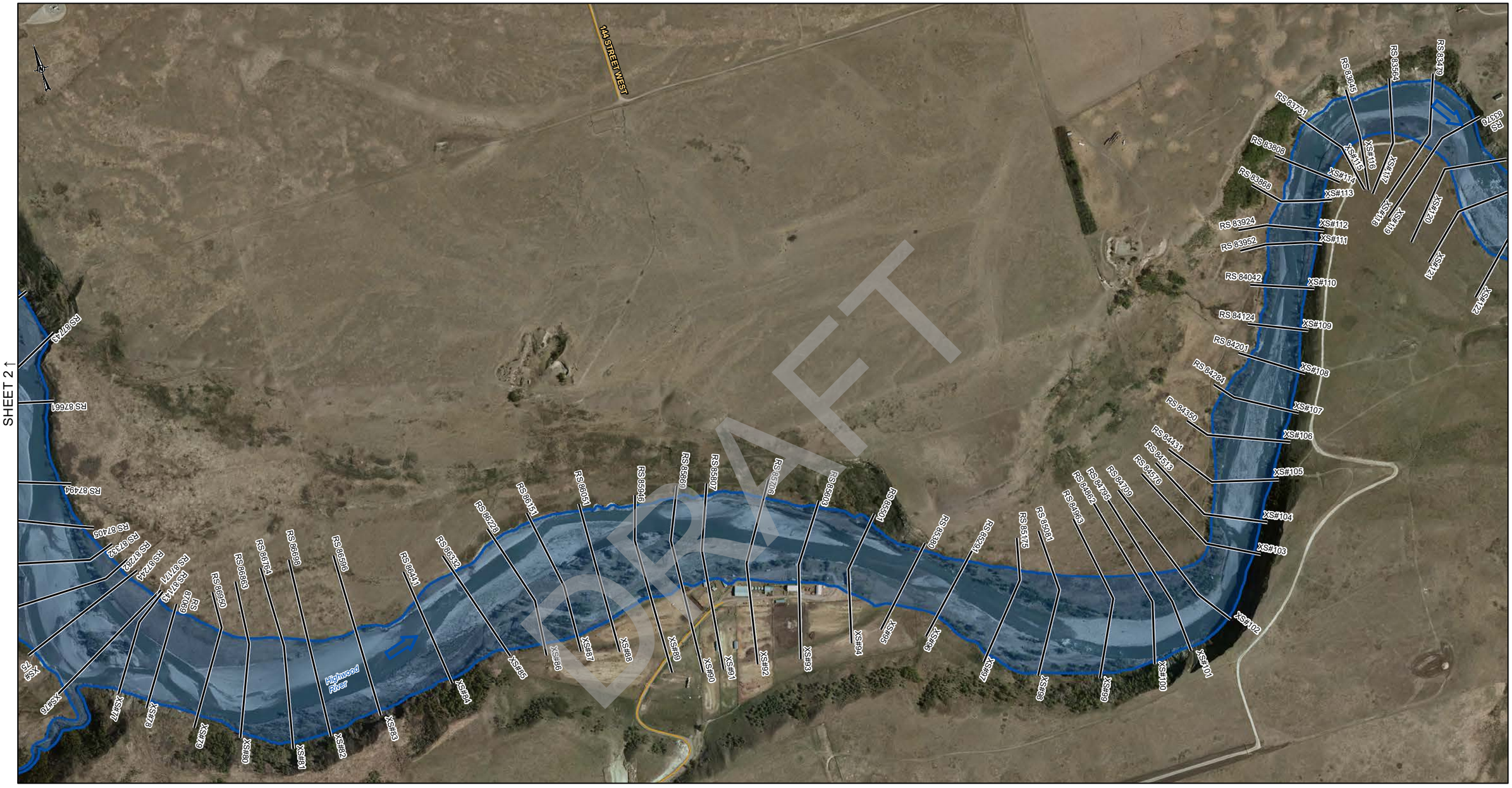
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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

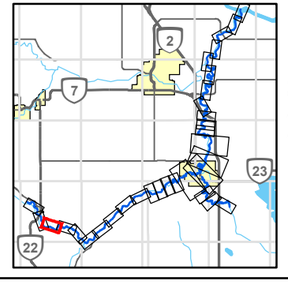
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2330 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

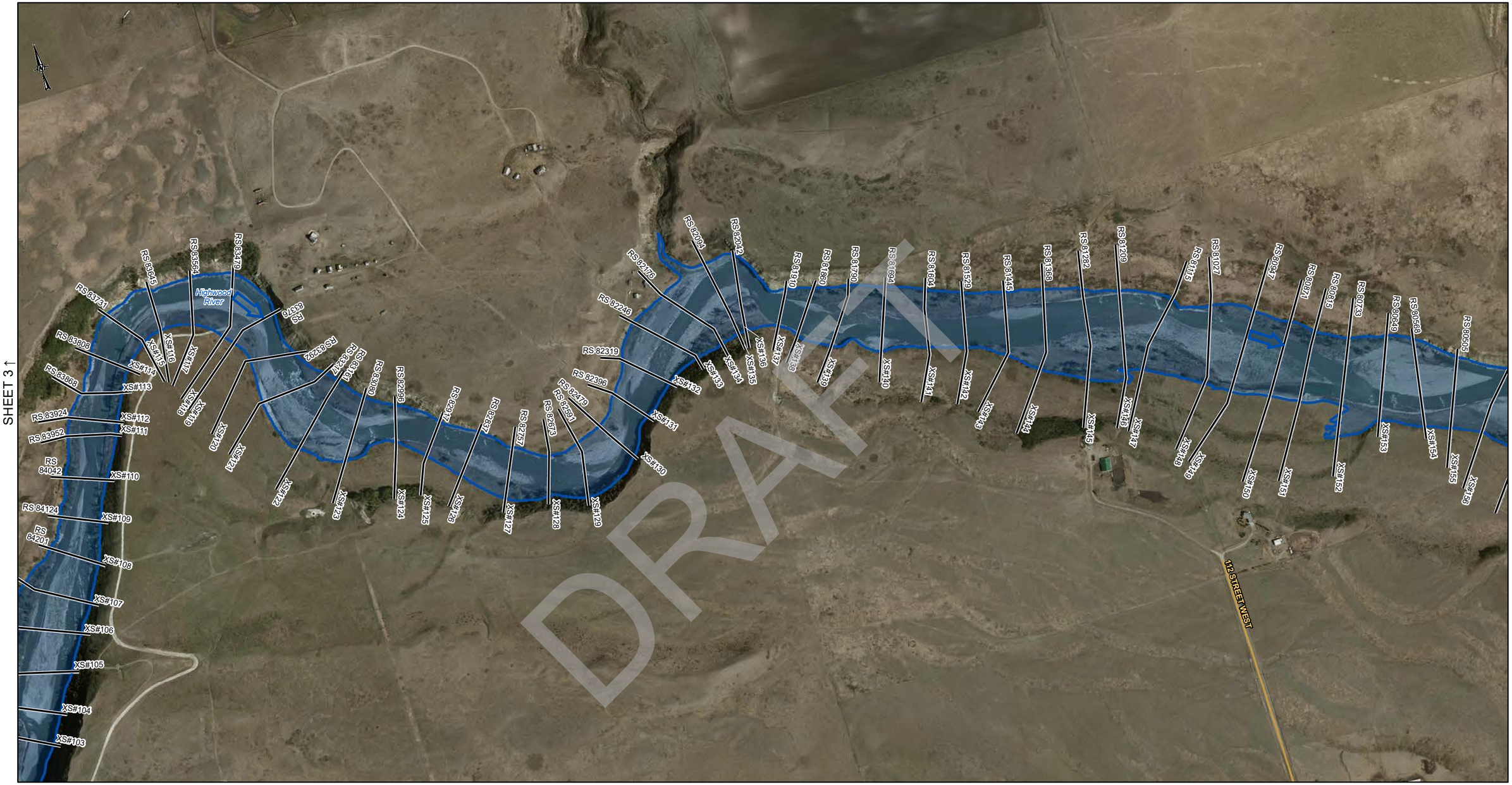
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25mm

0

Classification: Public



LEGEND

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- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

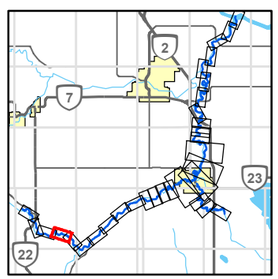
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

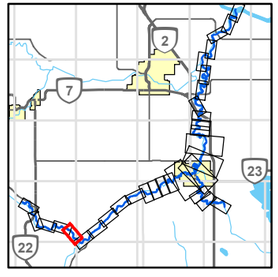
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2330 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

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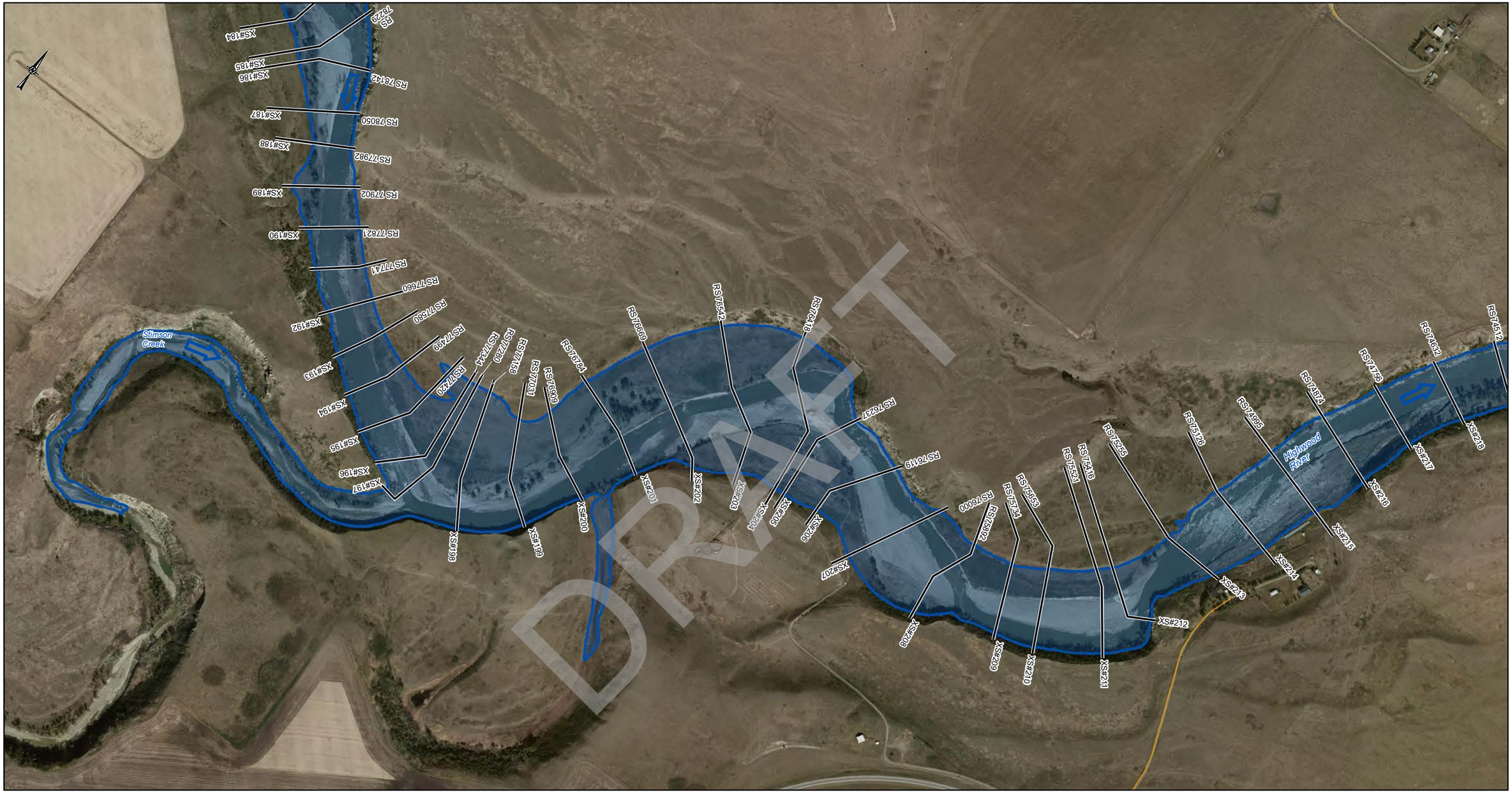
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Classification: Public

SHEET 5 ↑



SHEET 7 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

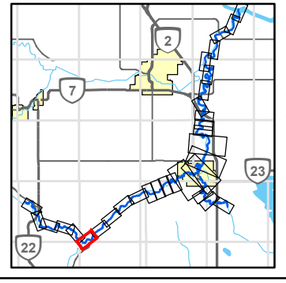
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2330 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

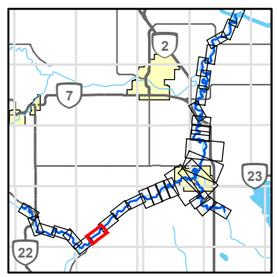
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

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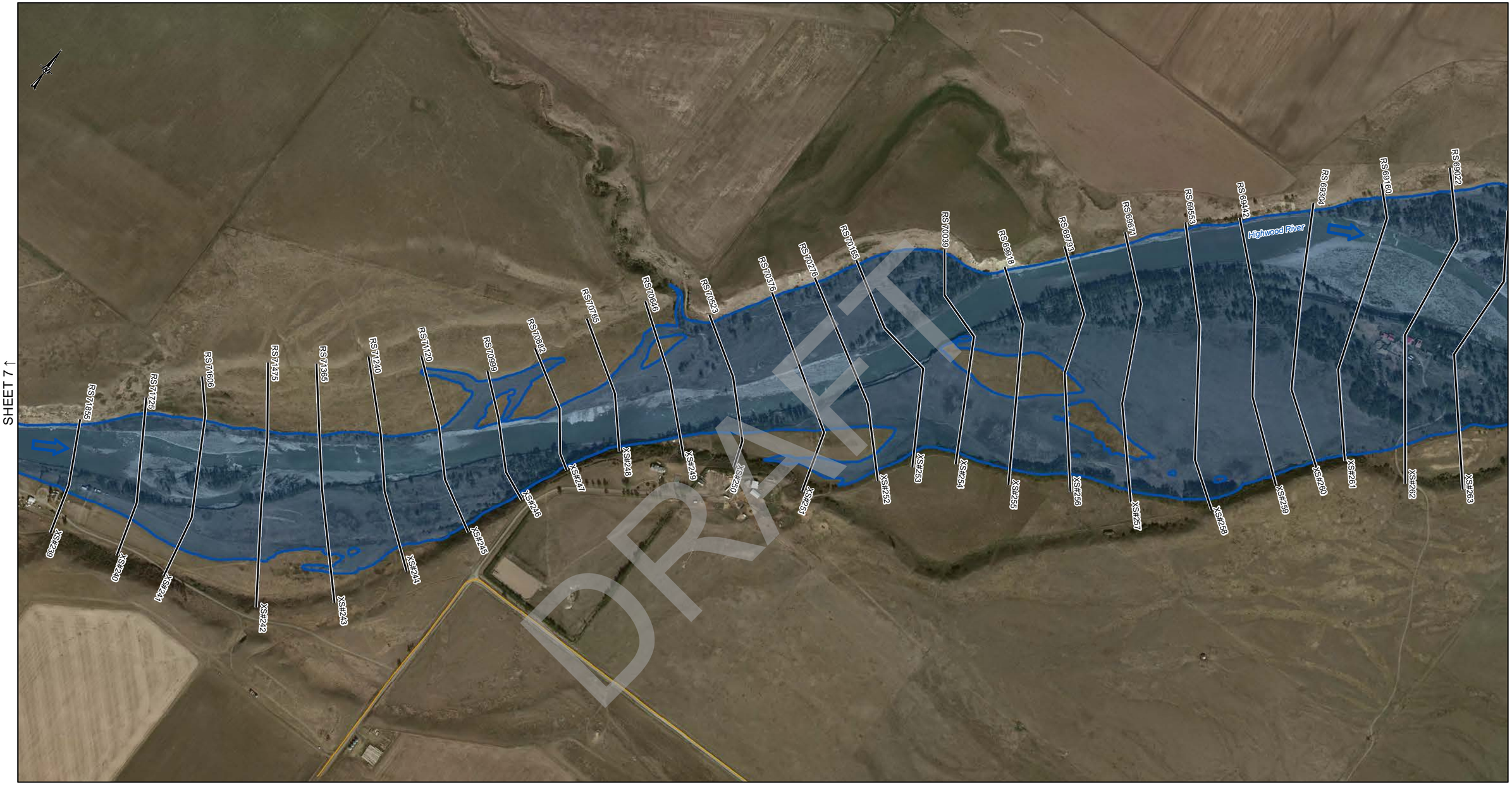
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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

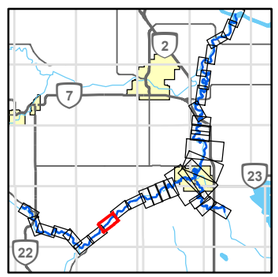
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S



0 250 500

1:7500 METRES

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PROJECT
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TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

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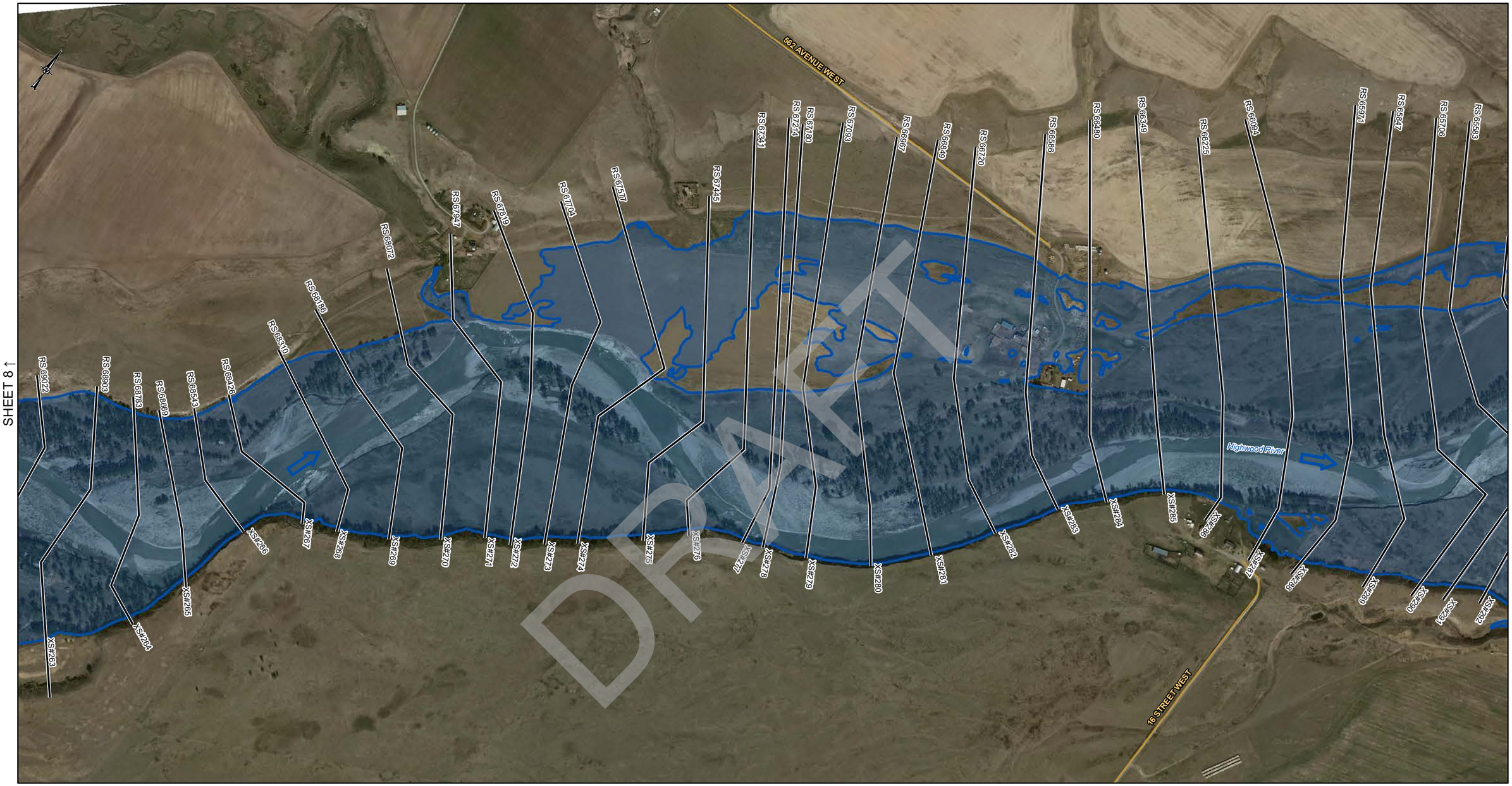
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

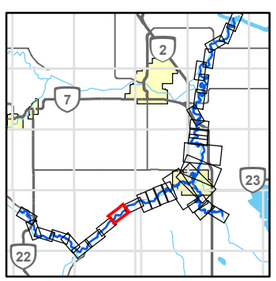
- CULVERT
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- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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0 250 500

1:7500 METRES

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350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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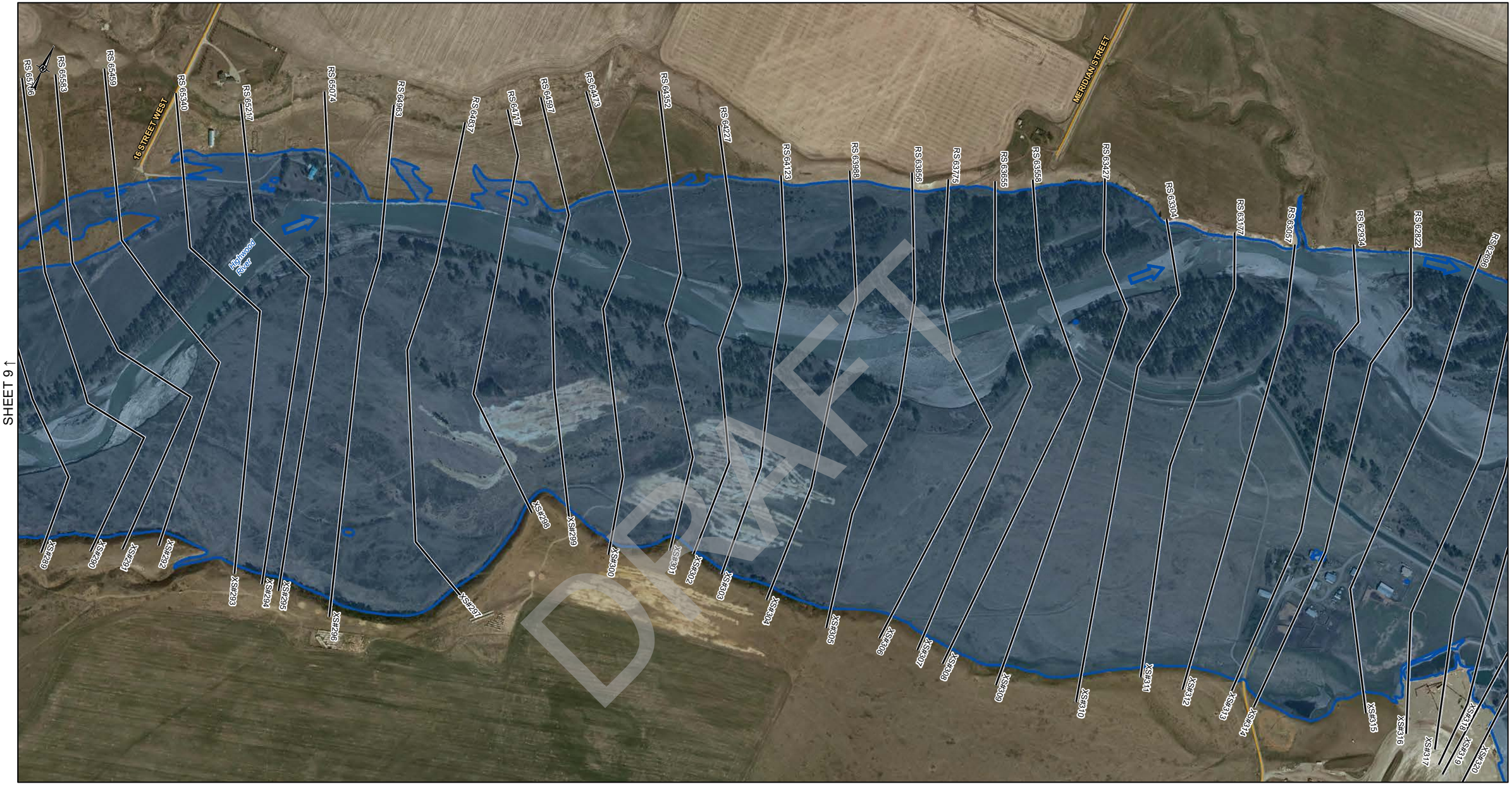
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

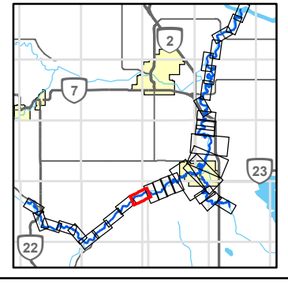
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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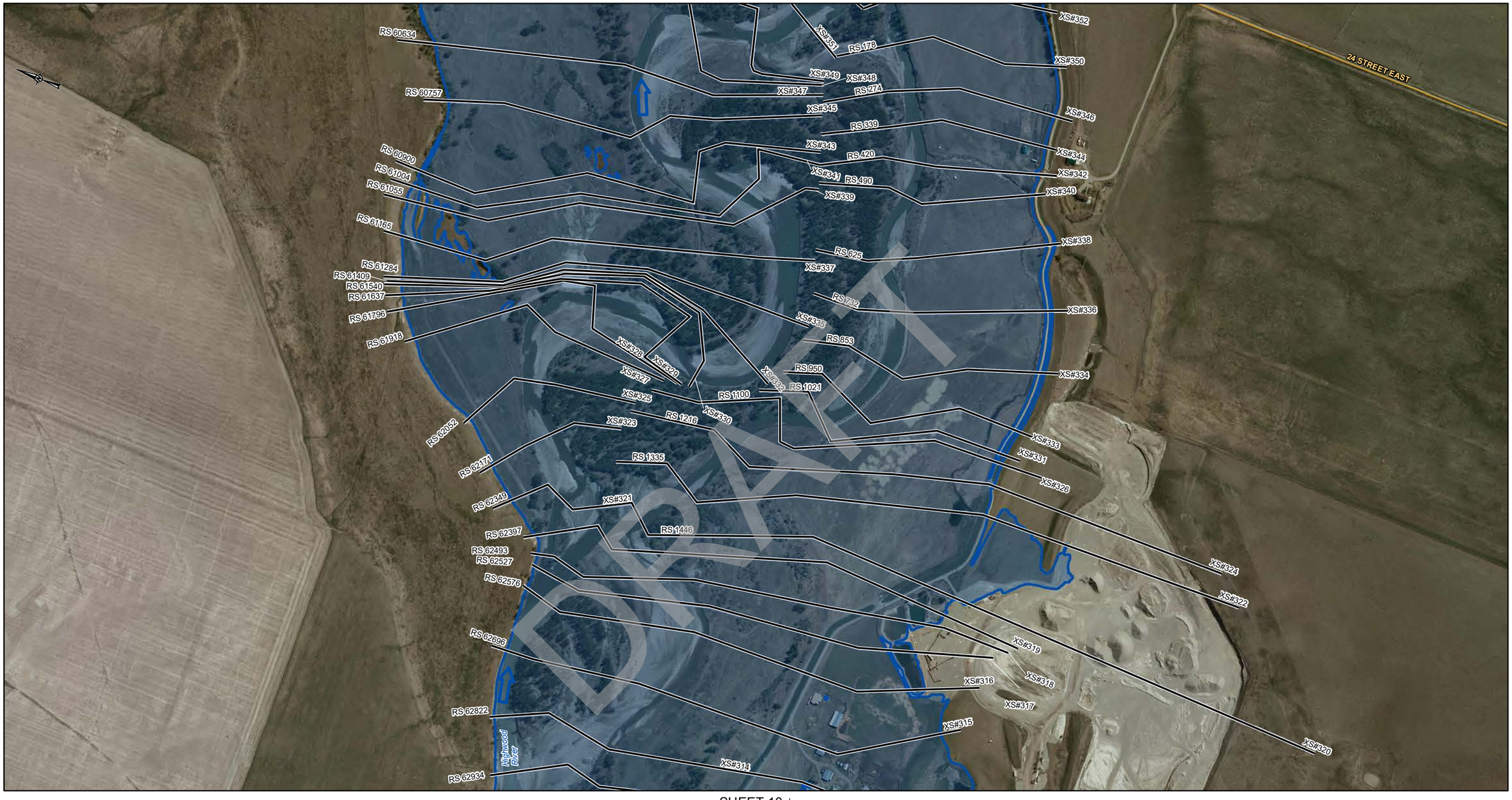
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25mm

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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

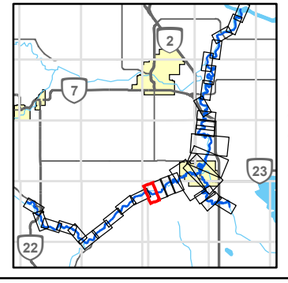
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 1340 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 2290 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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0 25mm

Classification: Public

SHEET 13 ↑

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HOEH DIKE 2
HOEH DIKE 1
COAL TRAIL EAST
24 STREET EAST
Highwood River

DRAFT

SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S

0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

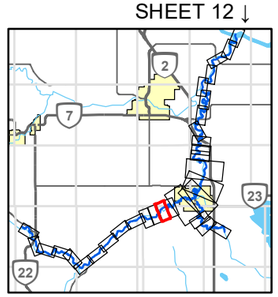
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

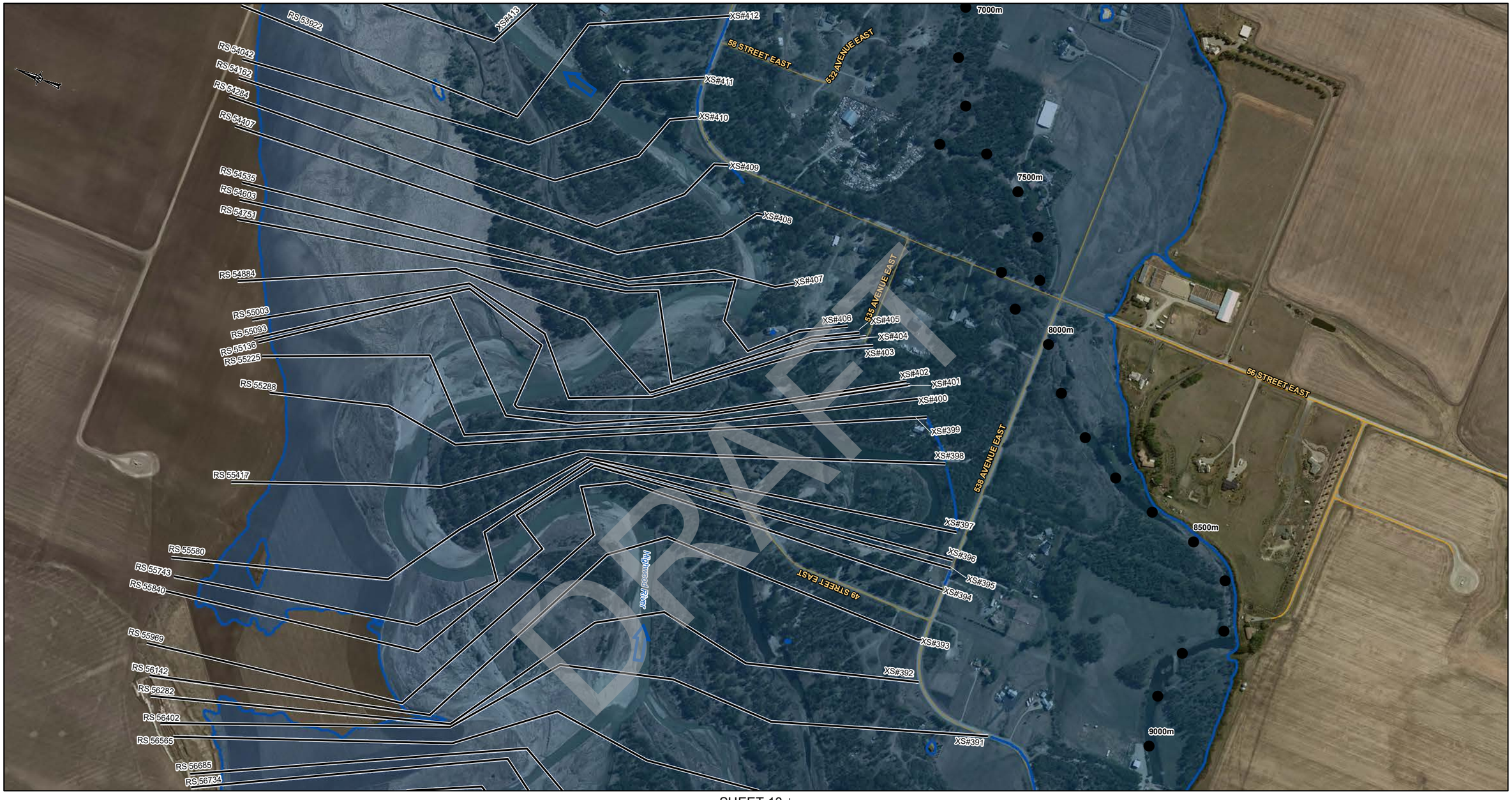
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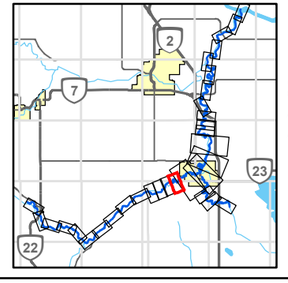
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Classification: Public

SHEET 15 ↑



SHEET 13 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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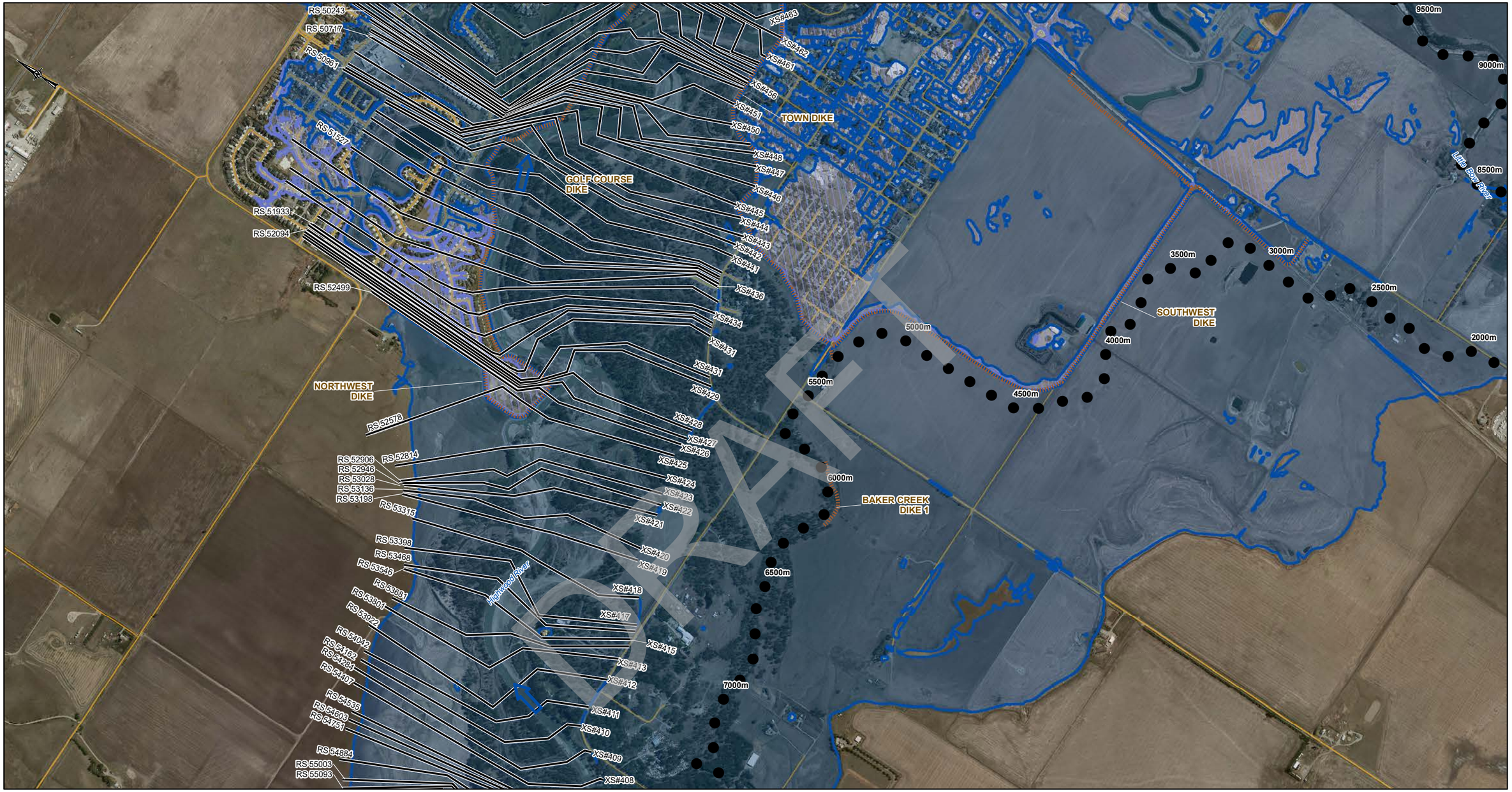
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Classification: Public

SHEET 16 ↑

SHEET 30 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

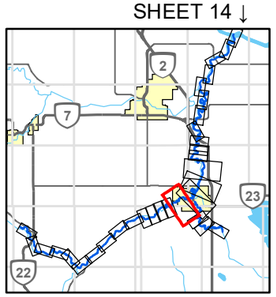
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S

SHEET 14 ↓



0 250 500
1:15000 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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DRAFT

Classification: Public

SHEET 17 ↑



SHEET 30 ↓

SHEET 15 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

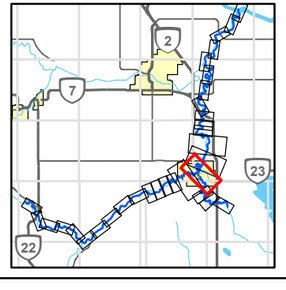
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 3630 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S



0 250 500
1:15000 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21462576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0350y-Inundation_Rev0.mxd

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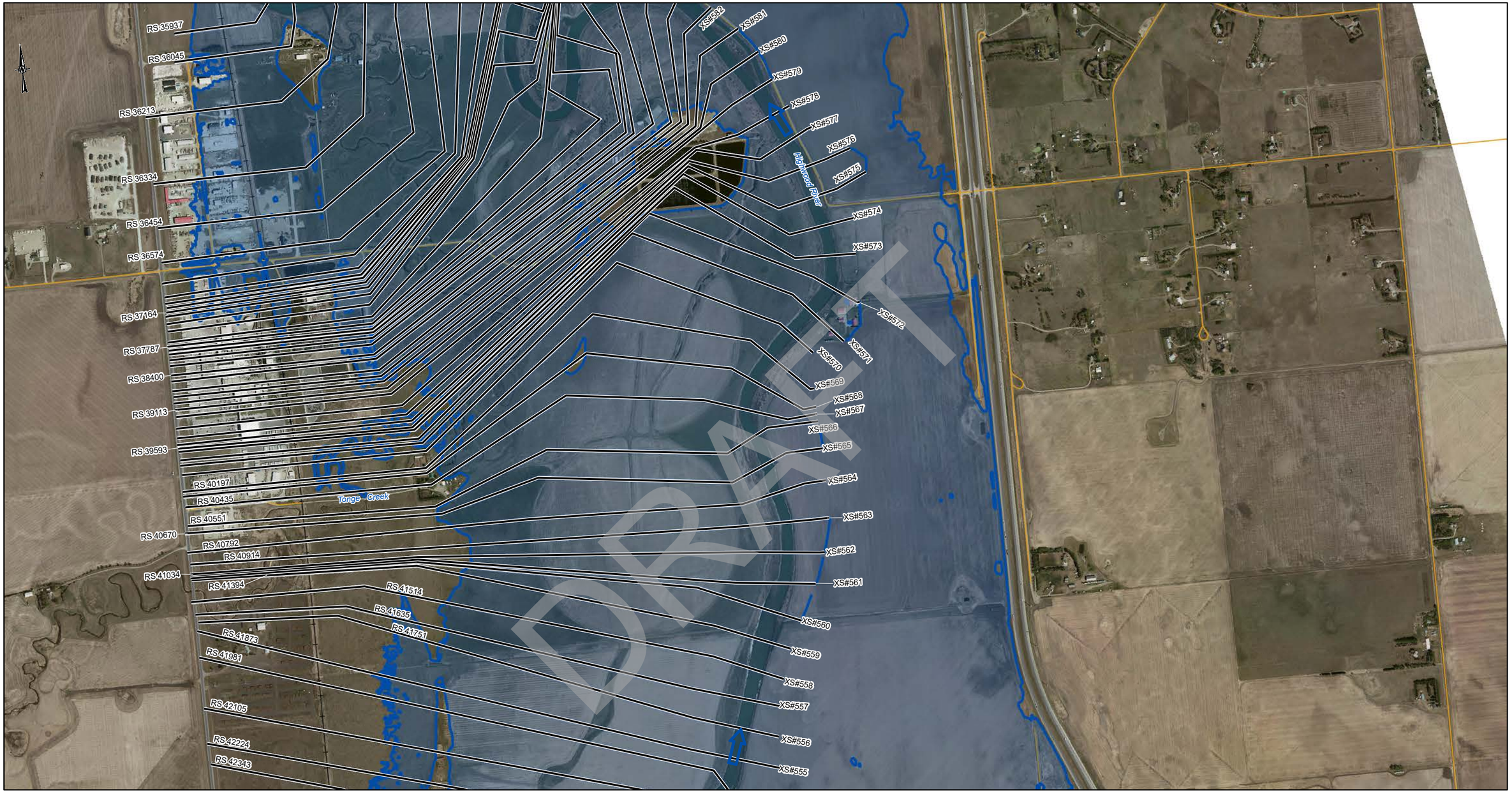
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Classification: Public

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RS

SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

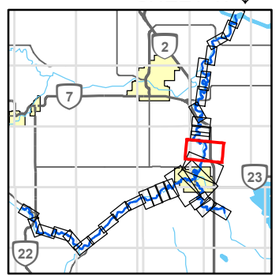
350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S

SHEET 17 ↓



0 250 500

1:15000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

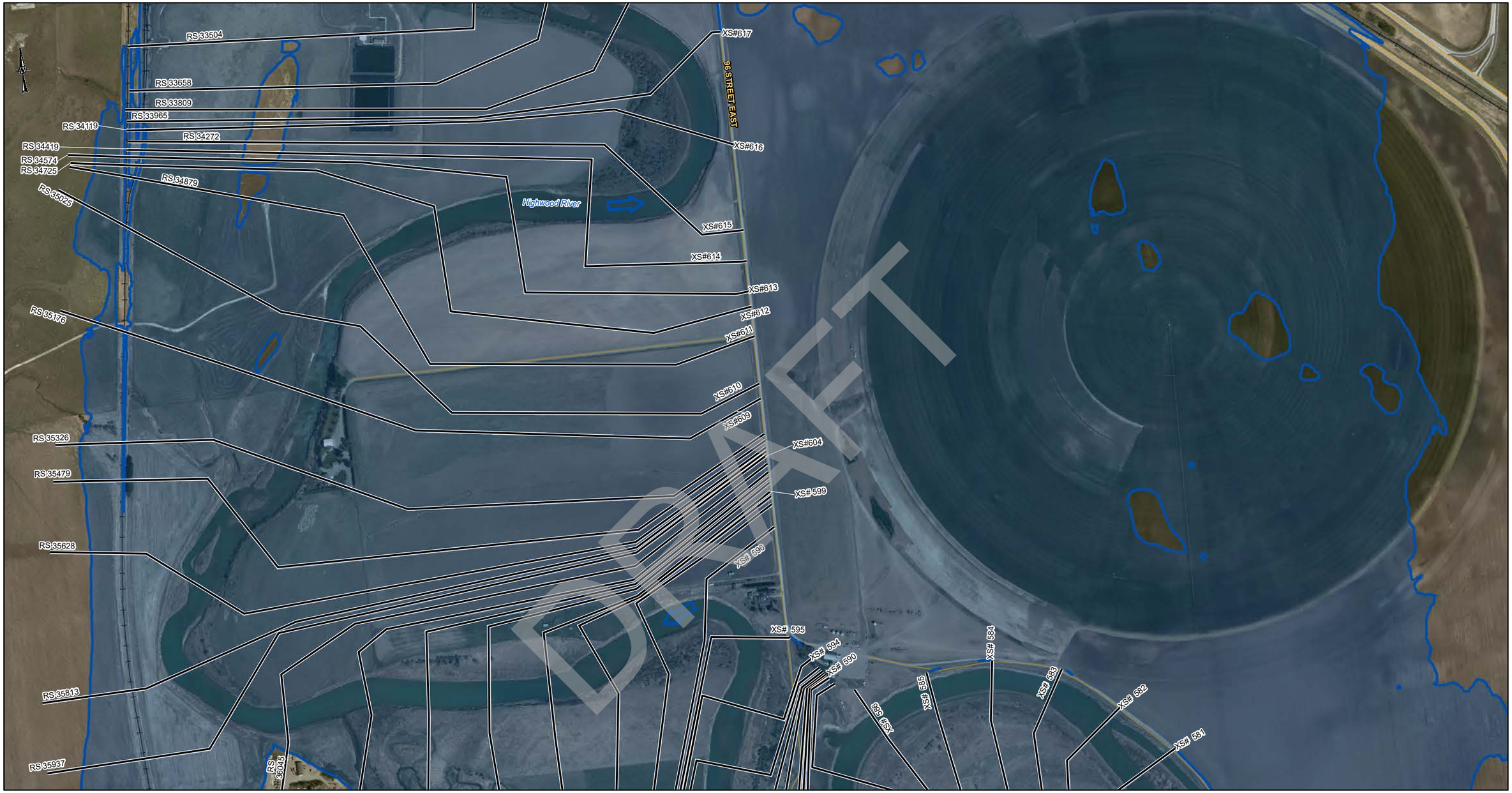
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

25mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576 Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0350y-Inundation_Rev0.mxd

Classification: Public

SHEET 20 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

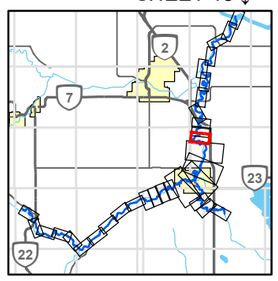
350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

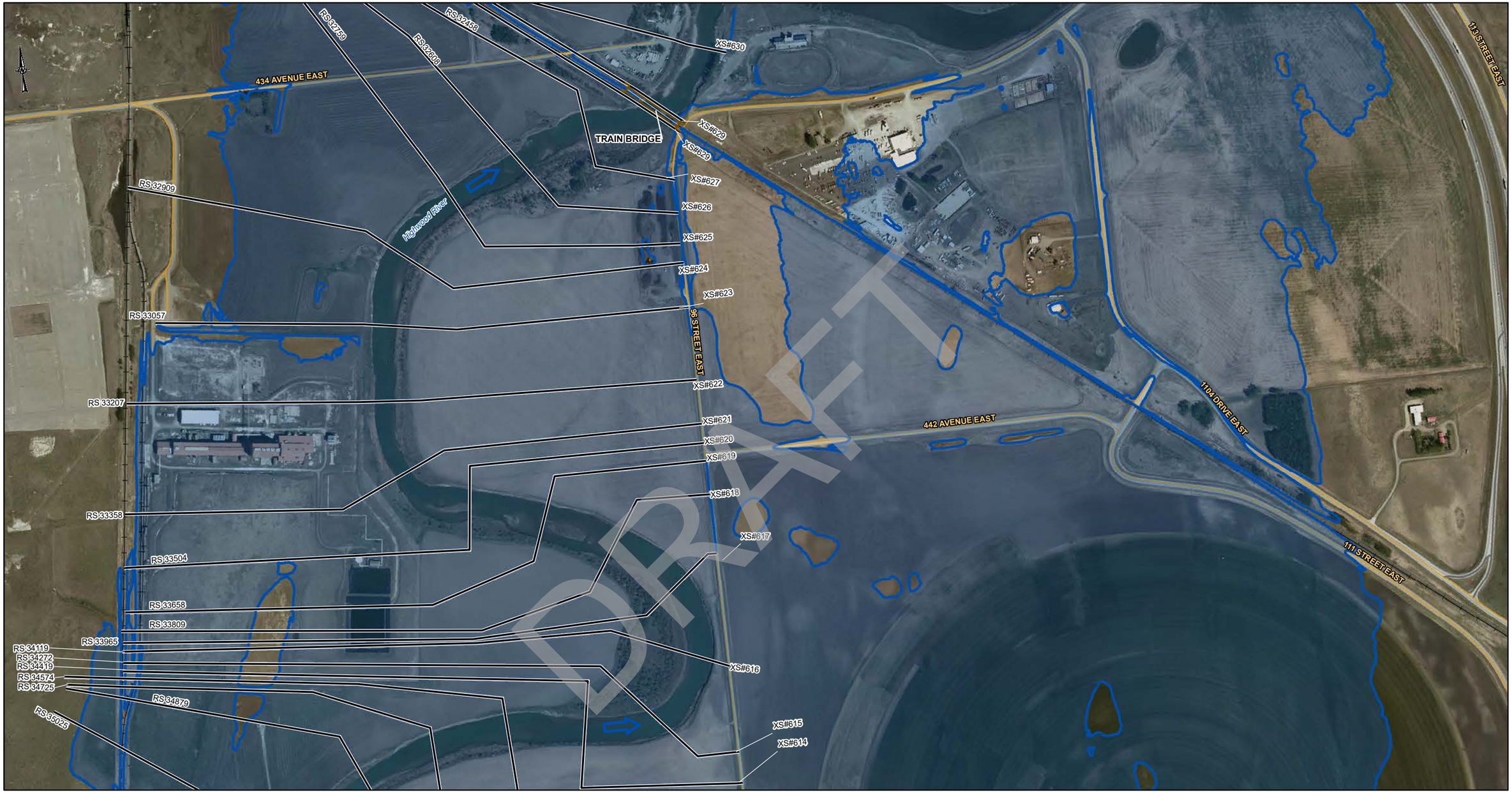
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Classification: Public

SHEET 21 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

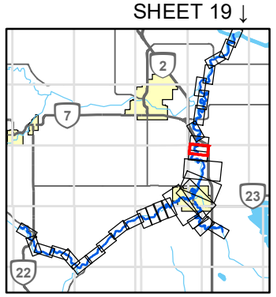
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 22 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

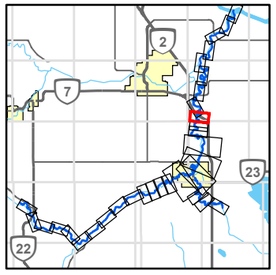
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



SHEET 21 ↑

SHEET 23 ↓

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

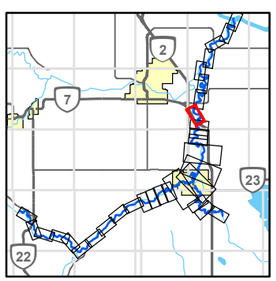
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

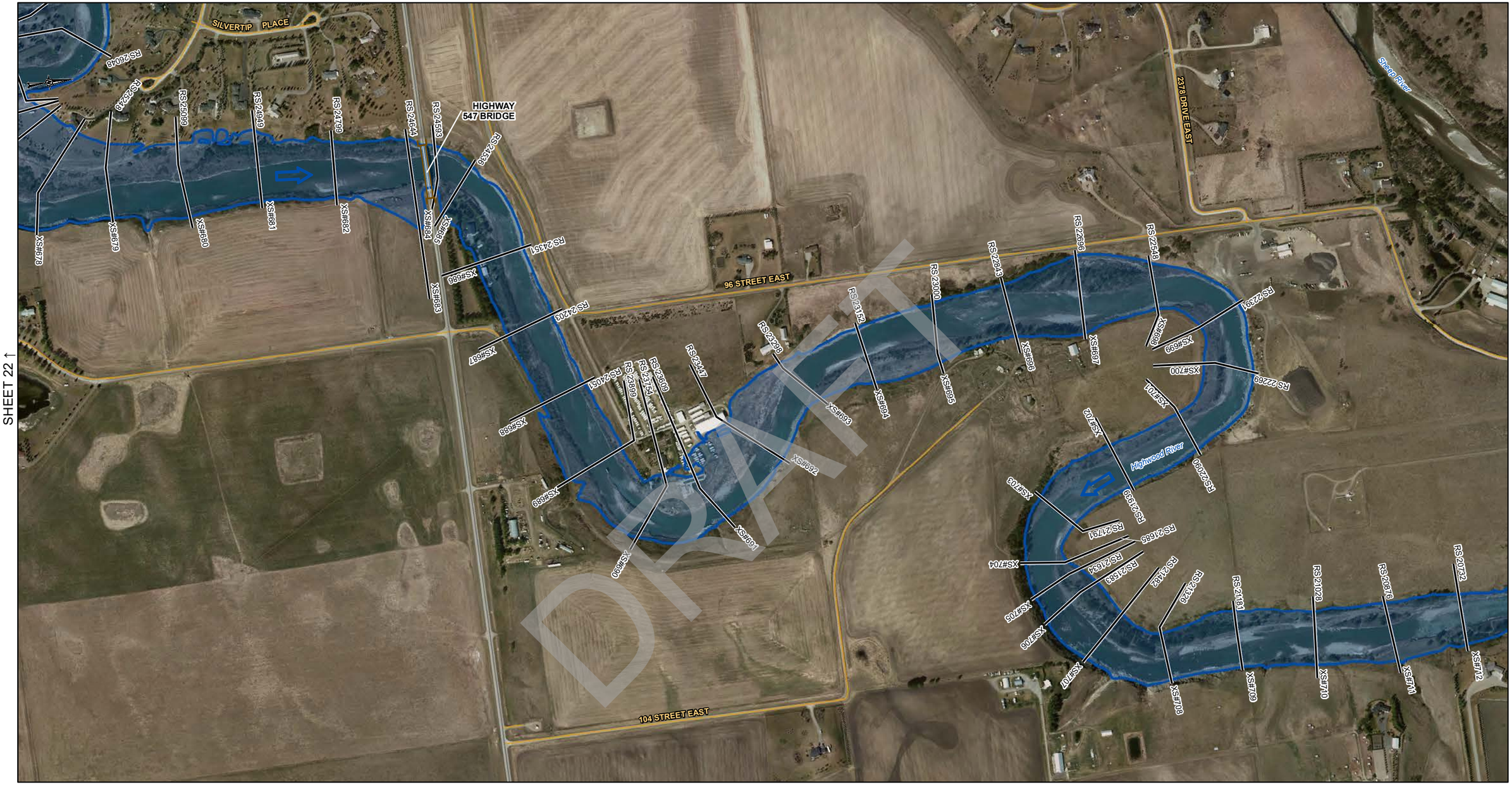
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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
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- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

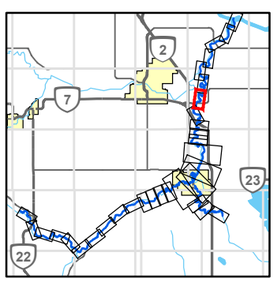
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\$\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0350y-Inundation_Rev0.mxd

Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

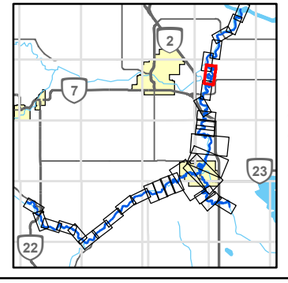
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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25mm

0

Classification: Public

SHEET 24 ↑

SHEET 26 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

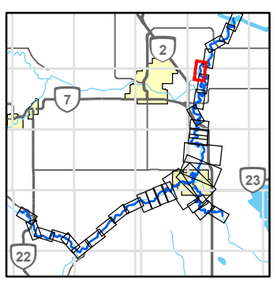
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 3794 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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GOLDER
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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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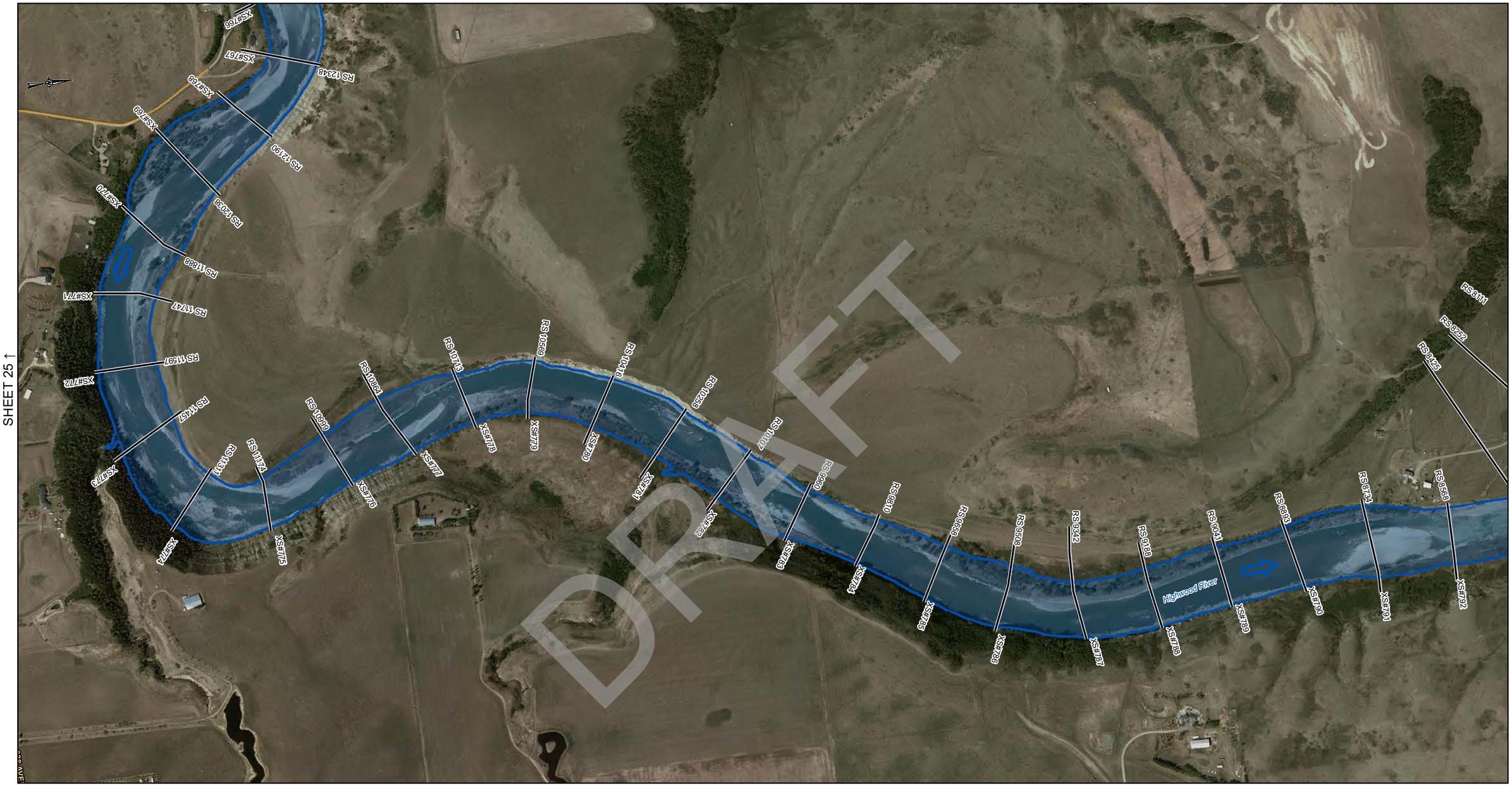
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Classification: Public

SHEET 25 ↑

SHEET 27 ↓

DRAFT



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

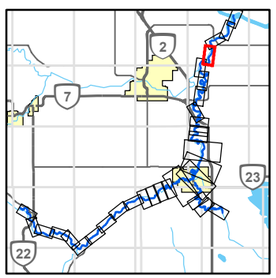
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 3794 M^3/S



0 250 500
1:7500 METRES

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GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350y-Inundation_Rev0.mxd

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25mm
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Classification: Public

SHEET 26 ↑

SHEET 28 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

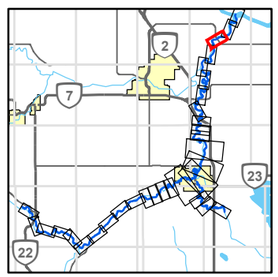
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 3794 M^3/S



0 250 500

1:7500 METRES

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GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
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- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

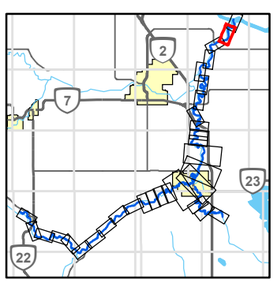
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 3794 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

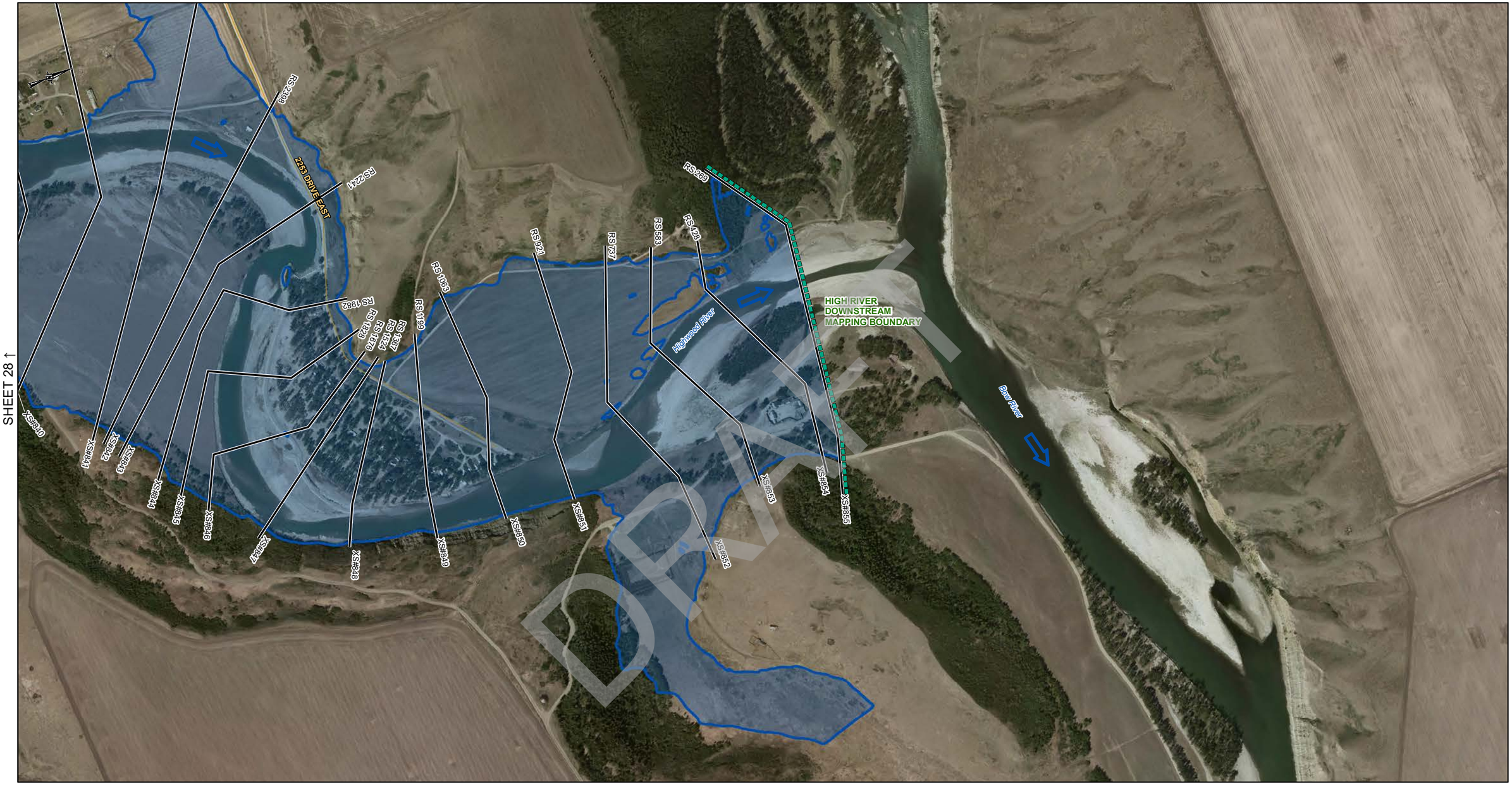
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25mm 0

Classification: Public

SHEET 28 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

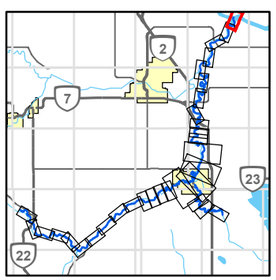
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 3794 M^3/S



0 250 500
1:7500 METRES

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

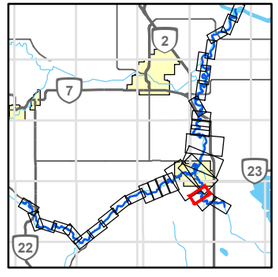
Classification: Public

SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1330 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

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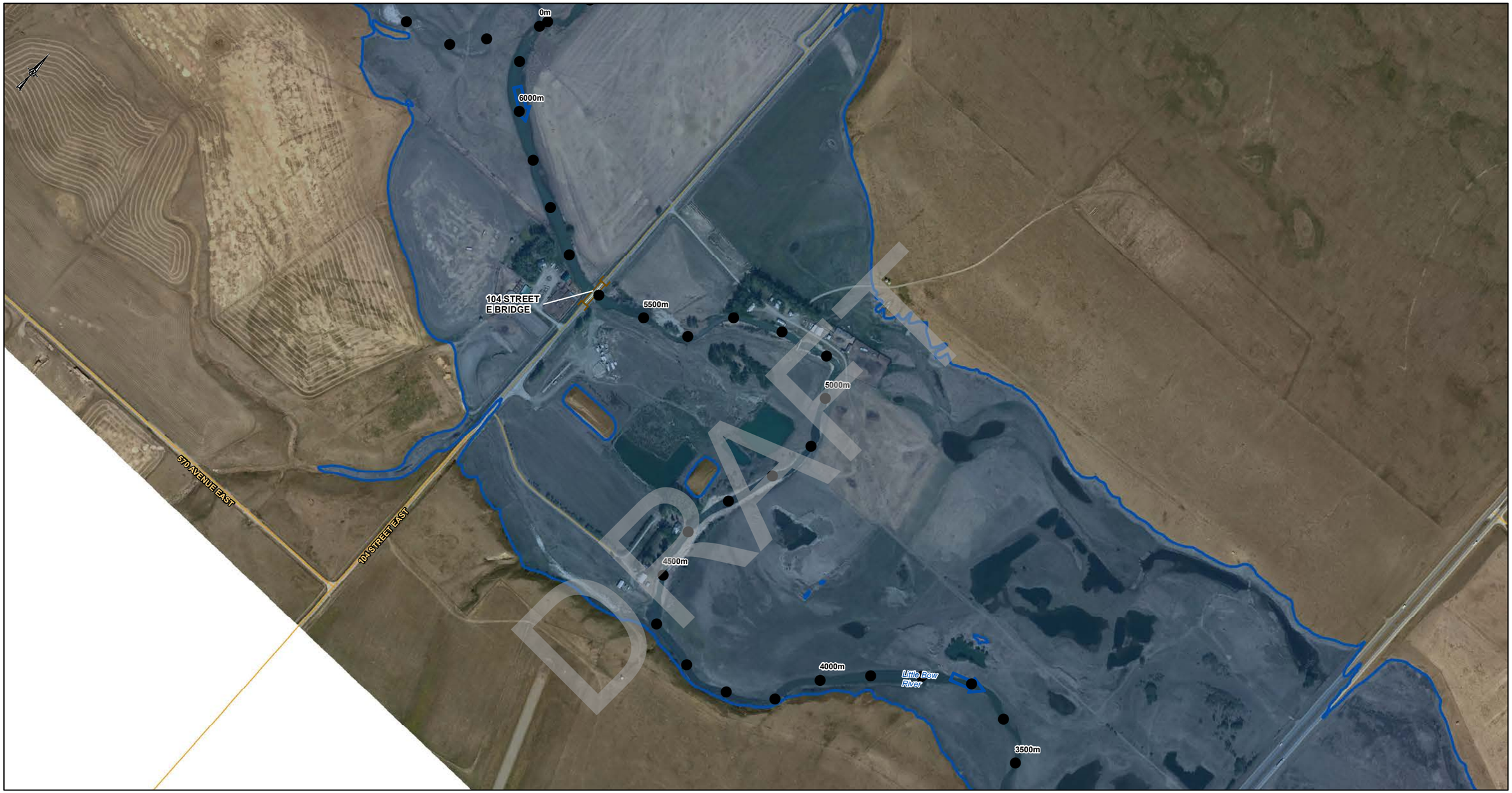
25mm

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Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

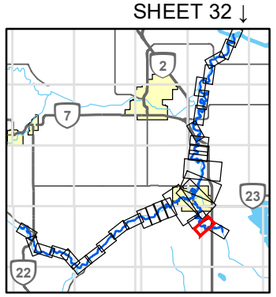
- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1330 M^3/S

SHEET 32 ↓



0 250 500
1:7500 METRES

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GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

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25mm

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Classification: Public

SHEET 31 ↑

0m
500m
1000m
1500m
2000m
2500m
3000m
3500m
Little Bow River
HIGHWAY 2 EAST BRIDGE
HIGHWAY 2 WEST BRIDGE
LITTLE BOW RIVER DOWNSTREAM MAPPING BOUNDARY

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

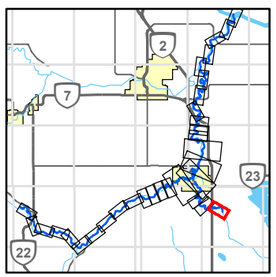
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1330 M^3/S



0 250 500
1:7500 METRES

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

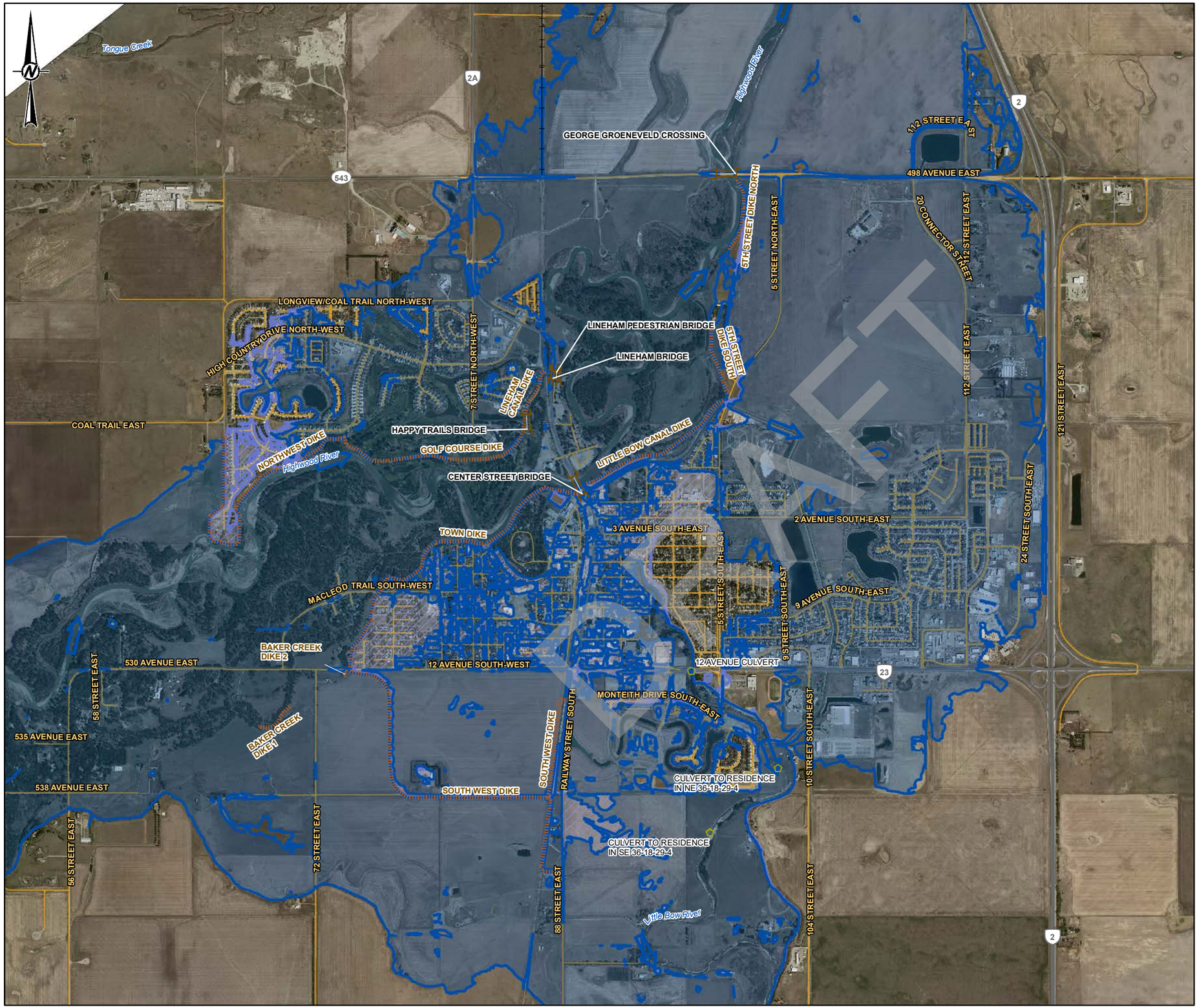
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



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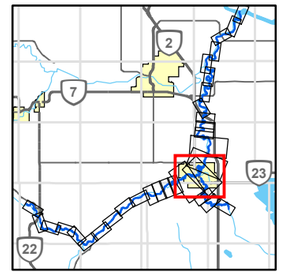
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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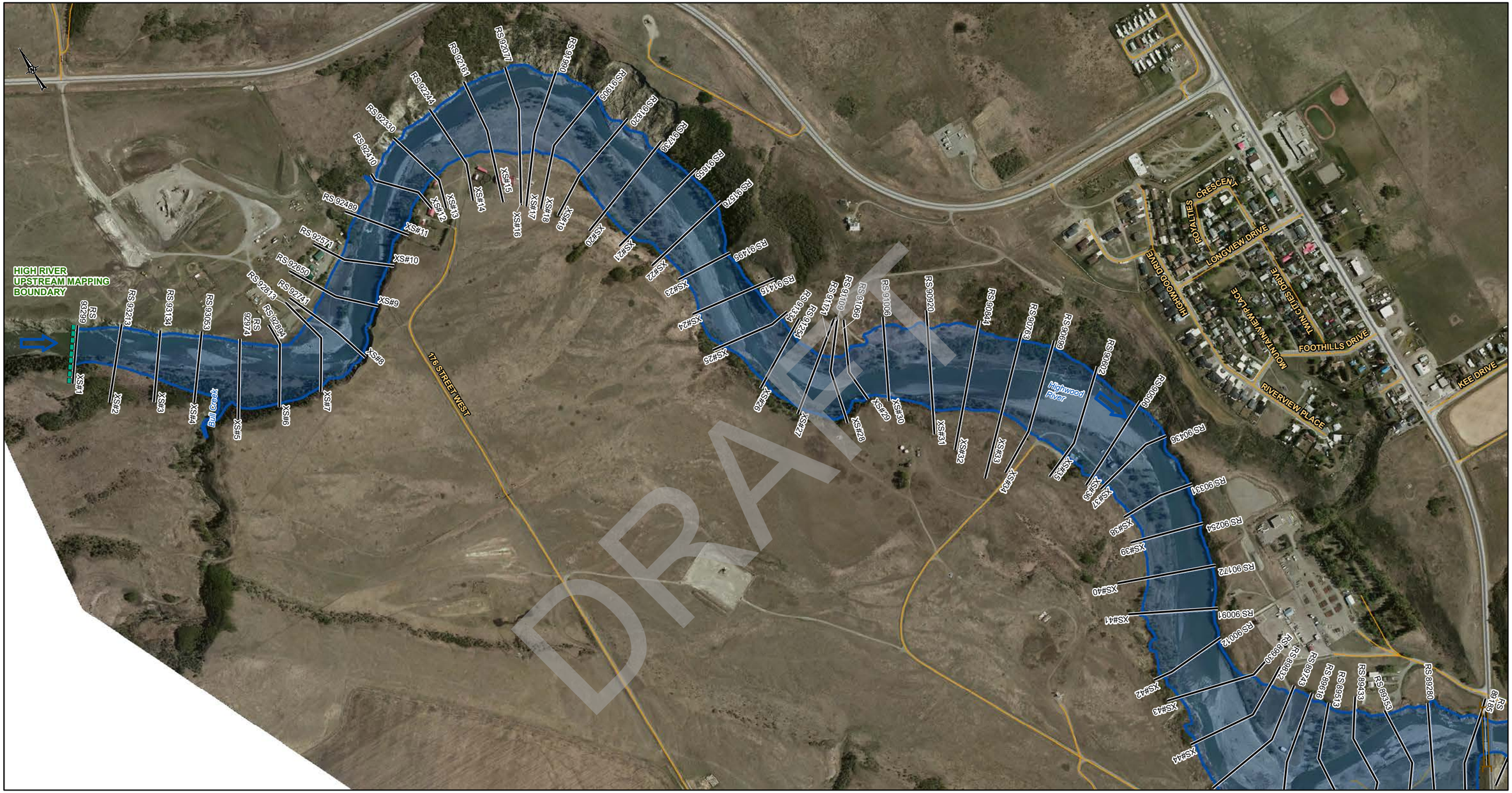
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Classification: Public

500-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

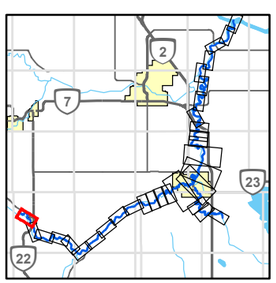
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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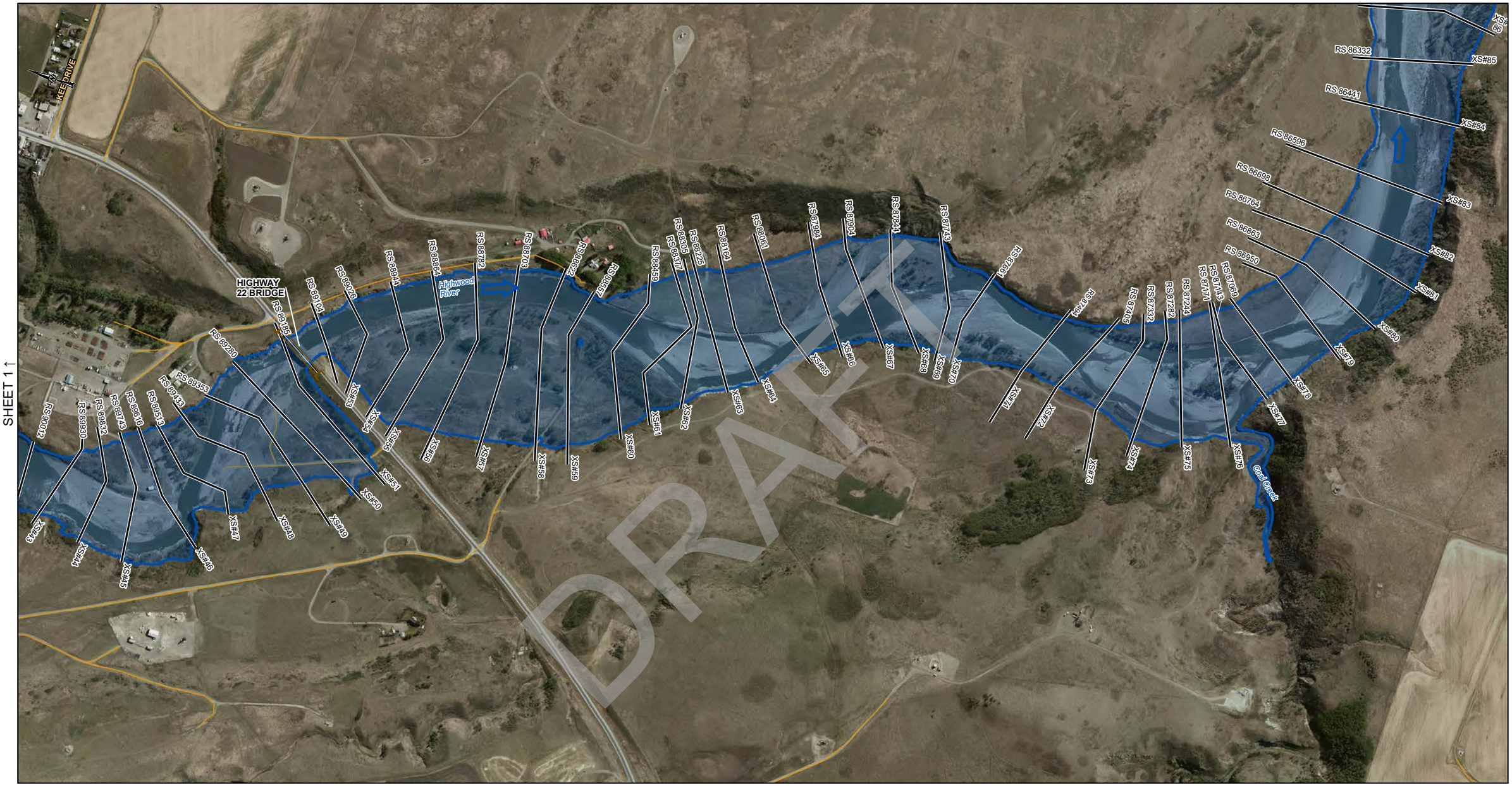
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Classification: Public

SHEET 1 ↑

SHEET 3 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

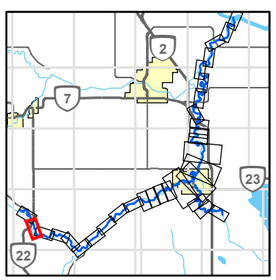
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

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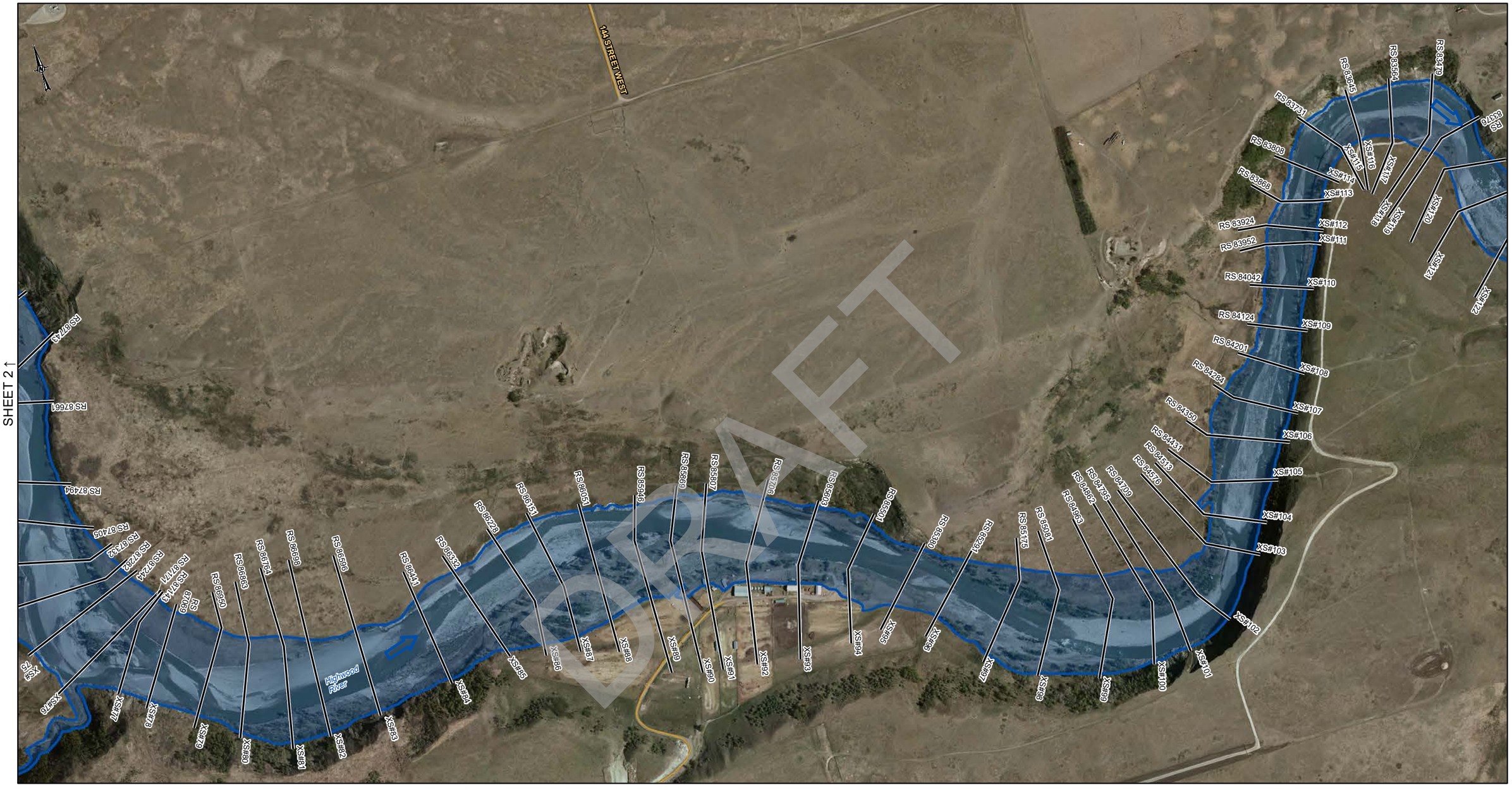
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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

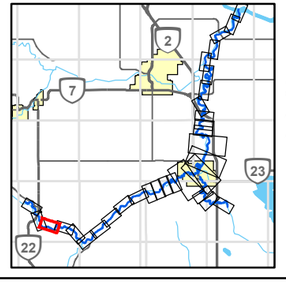
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

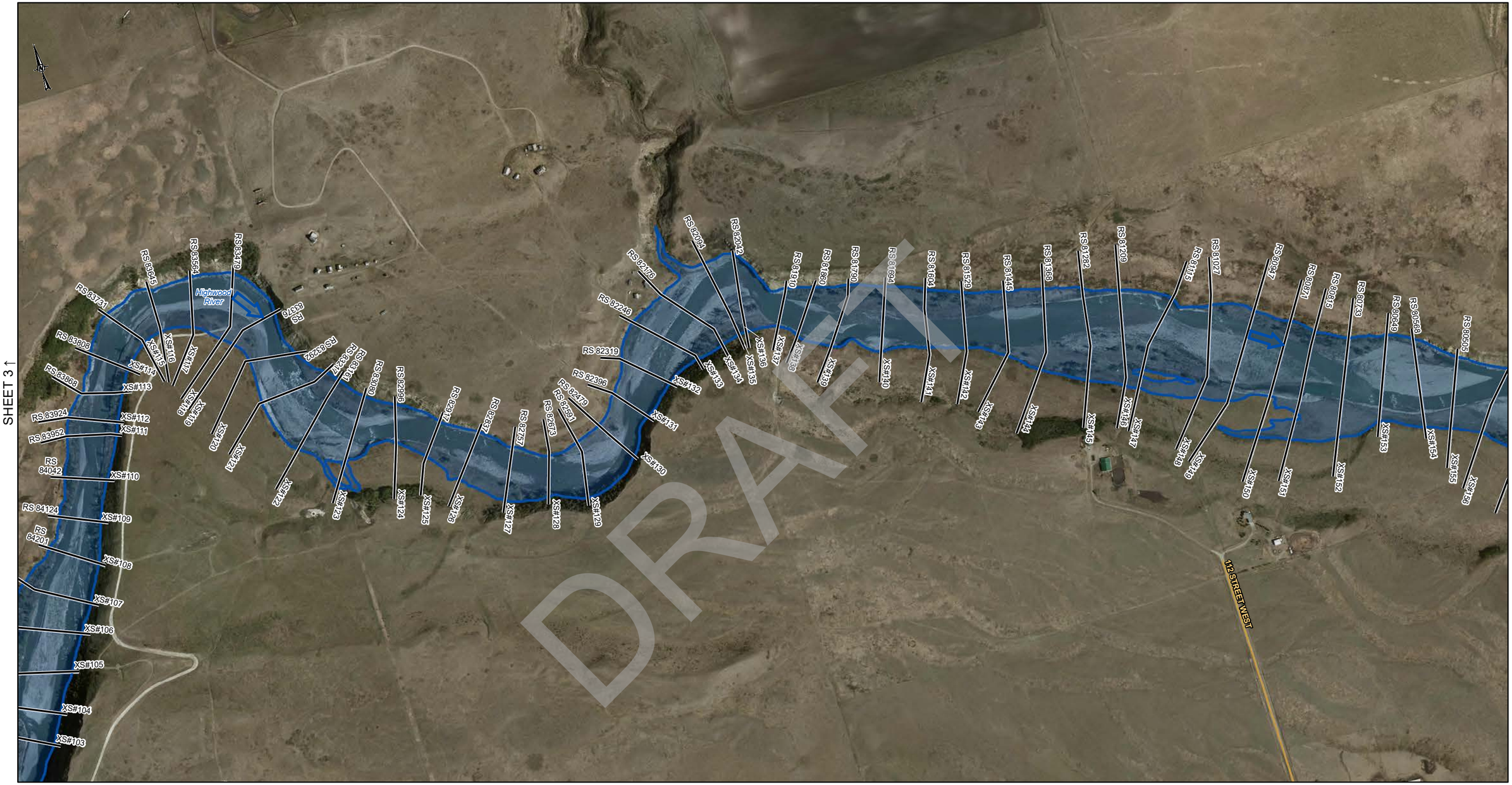
TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
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25mm
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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

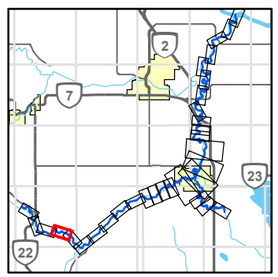
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S



0 250 500

1:7500 METRES

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GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

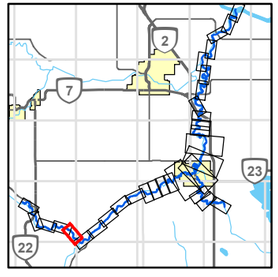
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S



0 250 500

1:7500 METRES

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

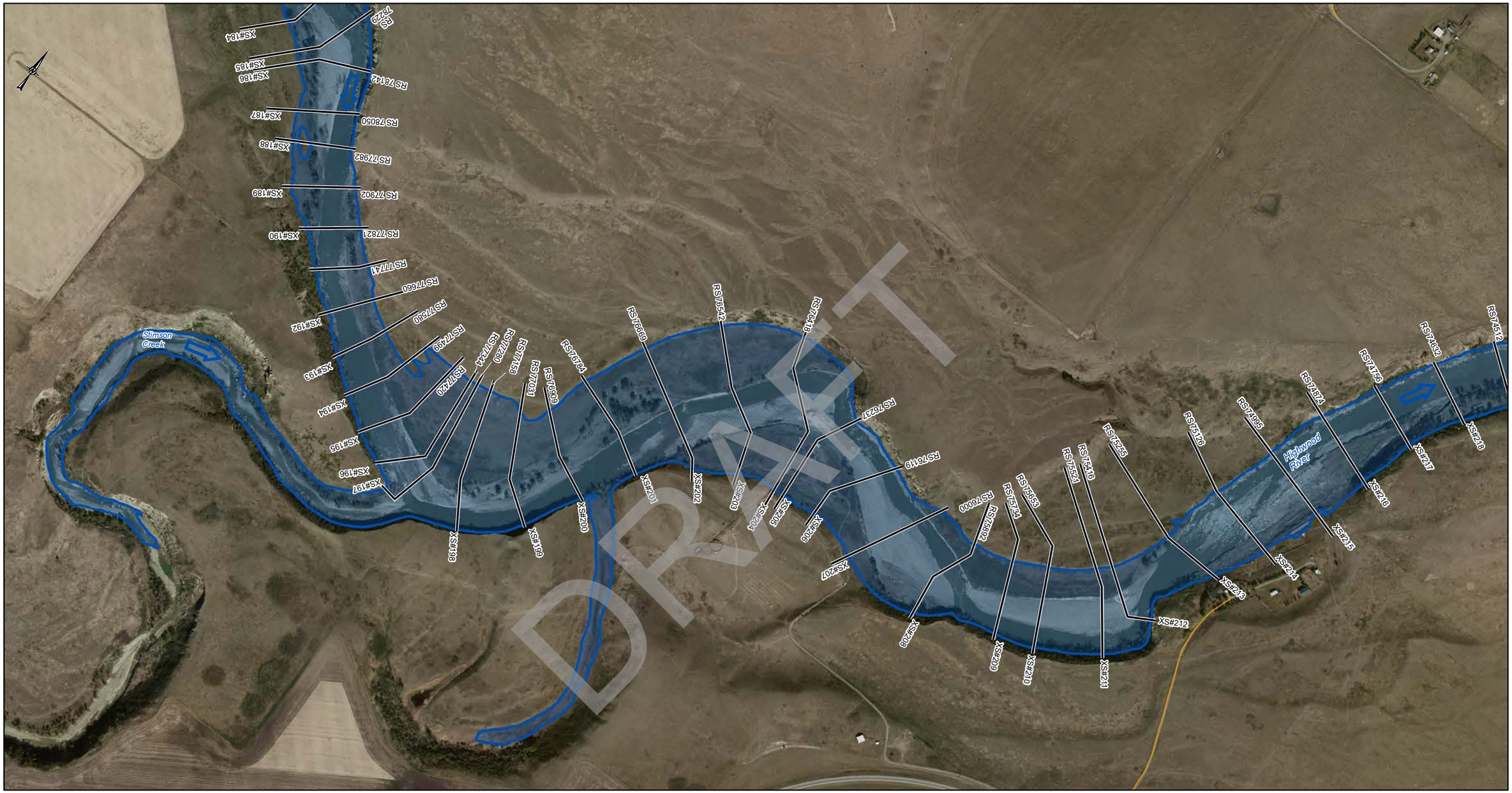
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Classification: Public

SHEET 5 ↑



DRAFT

SHEET 7 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

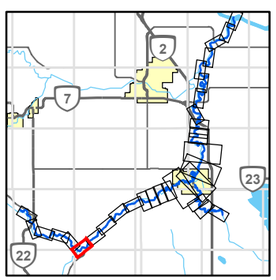
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 2780 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

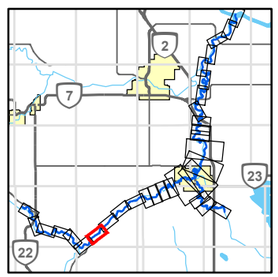
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

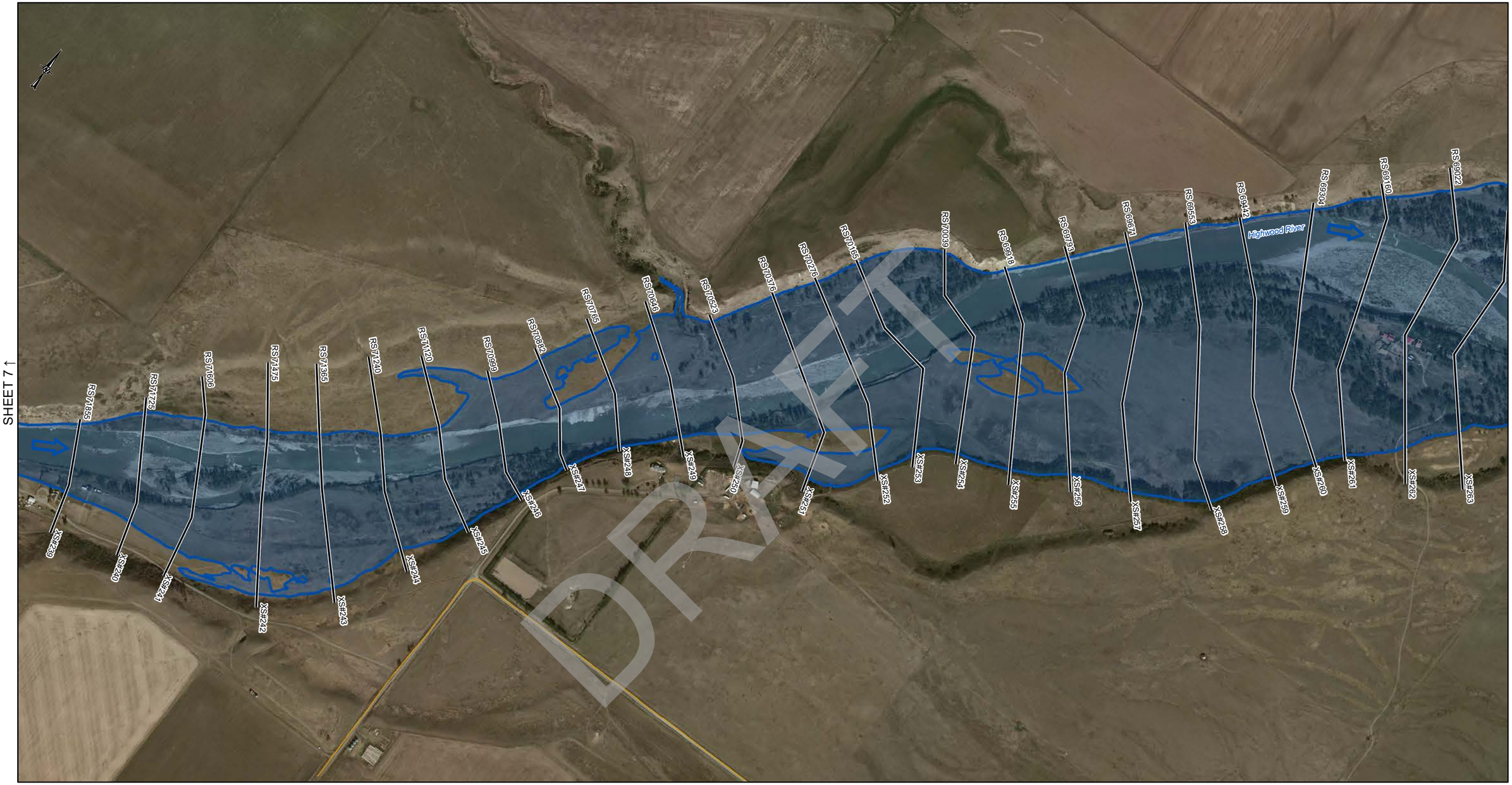
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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

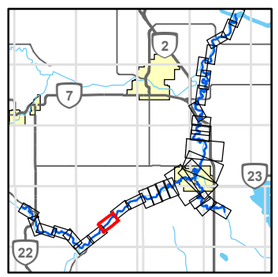
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:7500 METRES

CLIENT
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YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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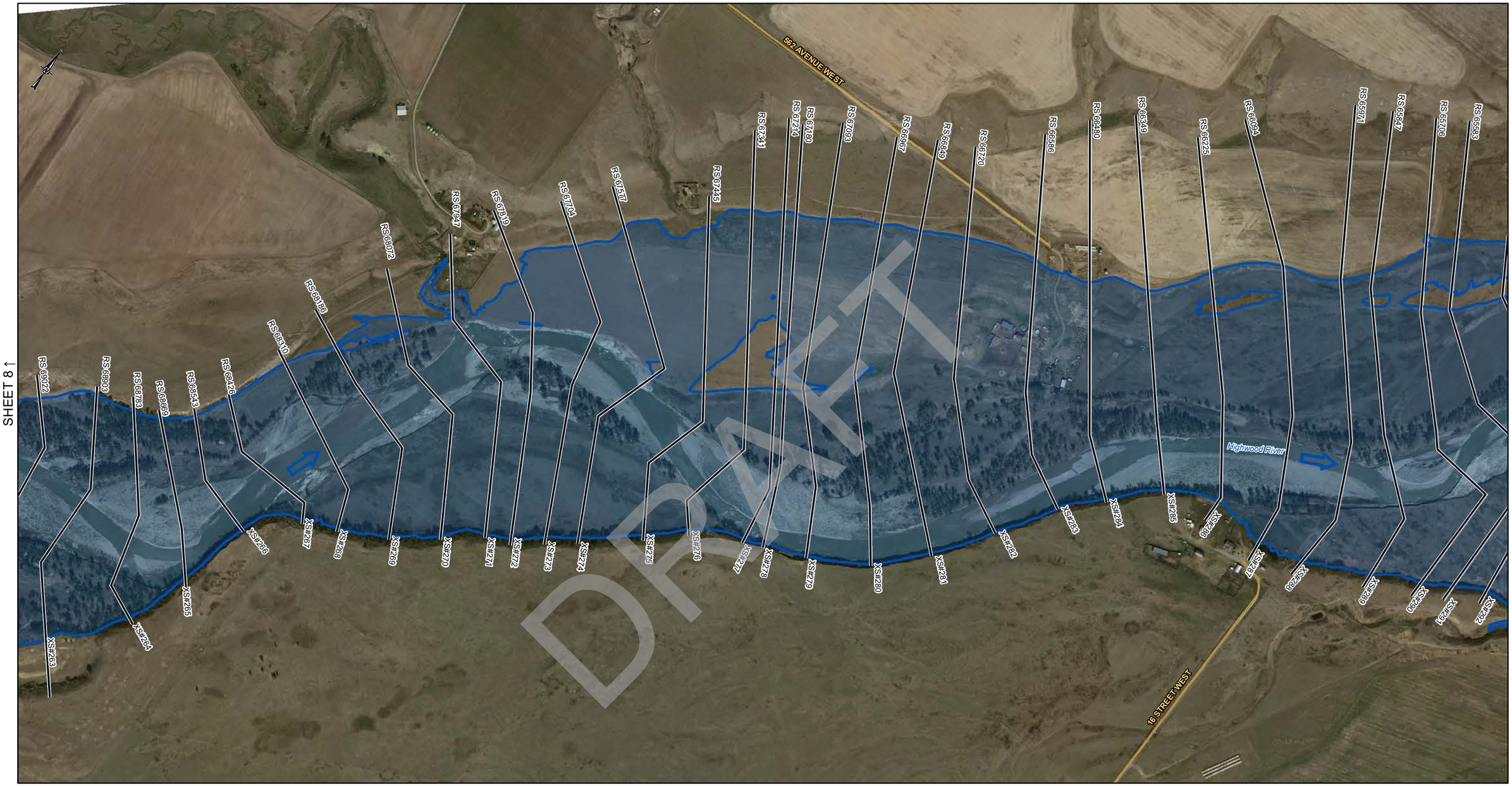
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

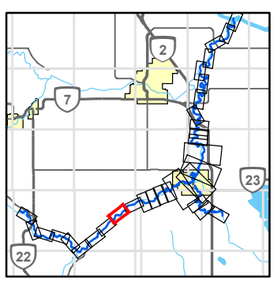
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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25mm

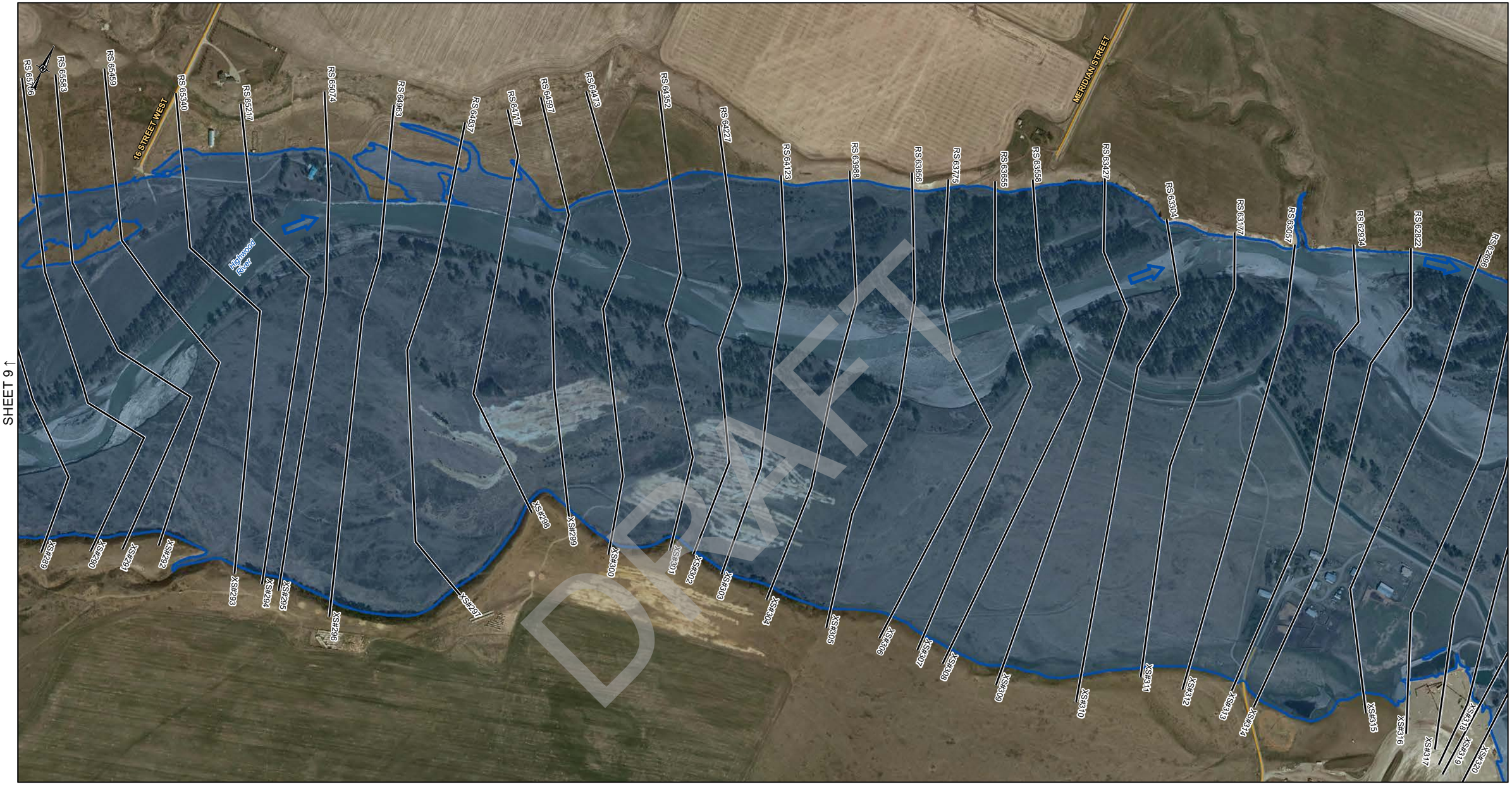
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

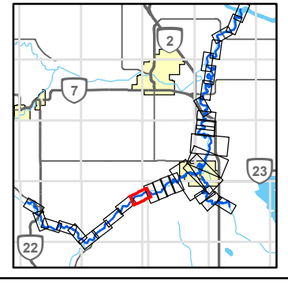
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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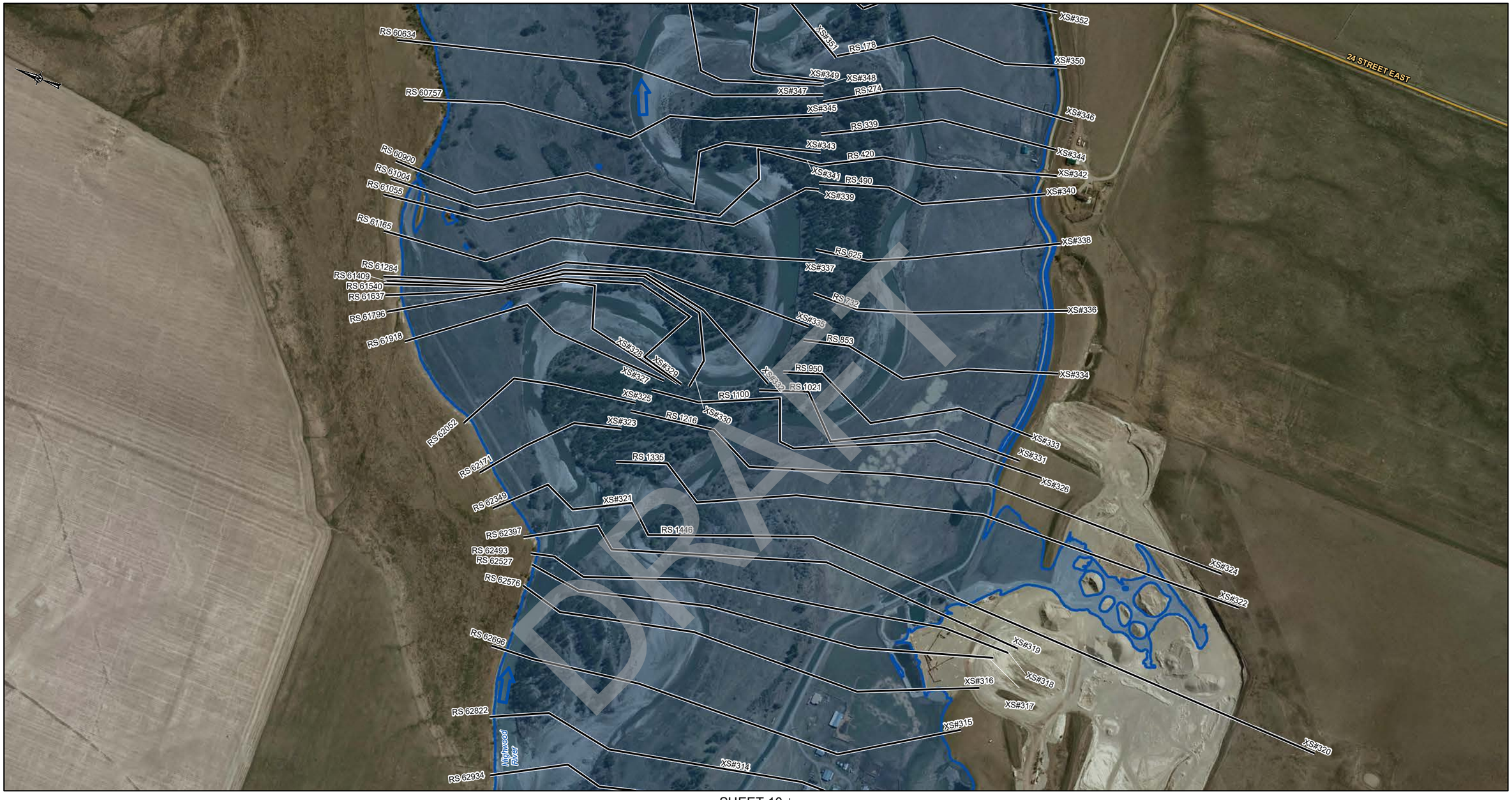
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

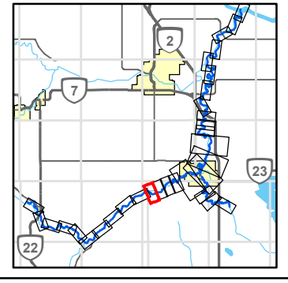
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 1620 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 2760 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

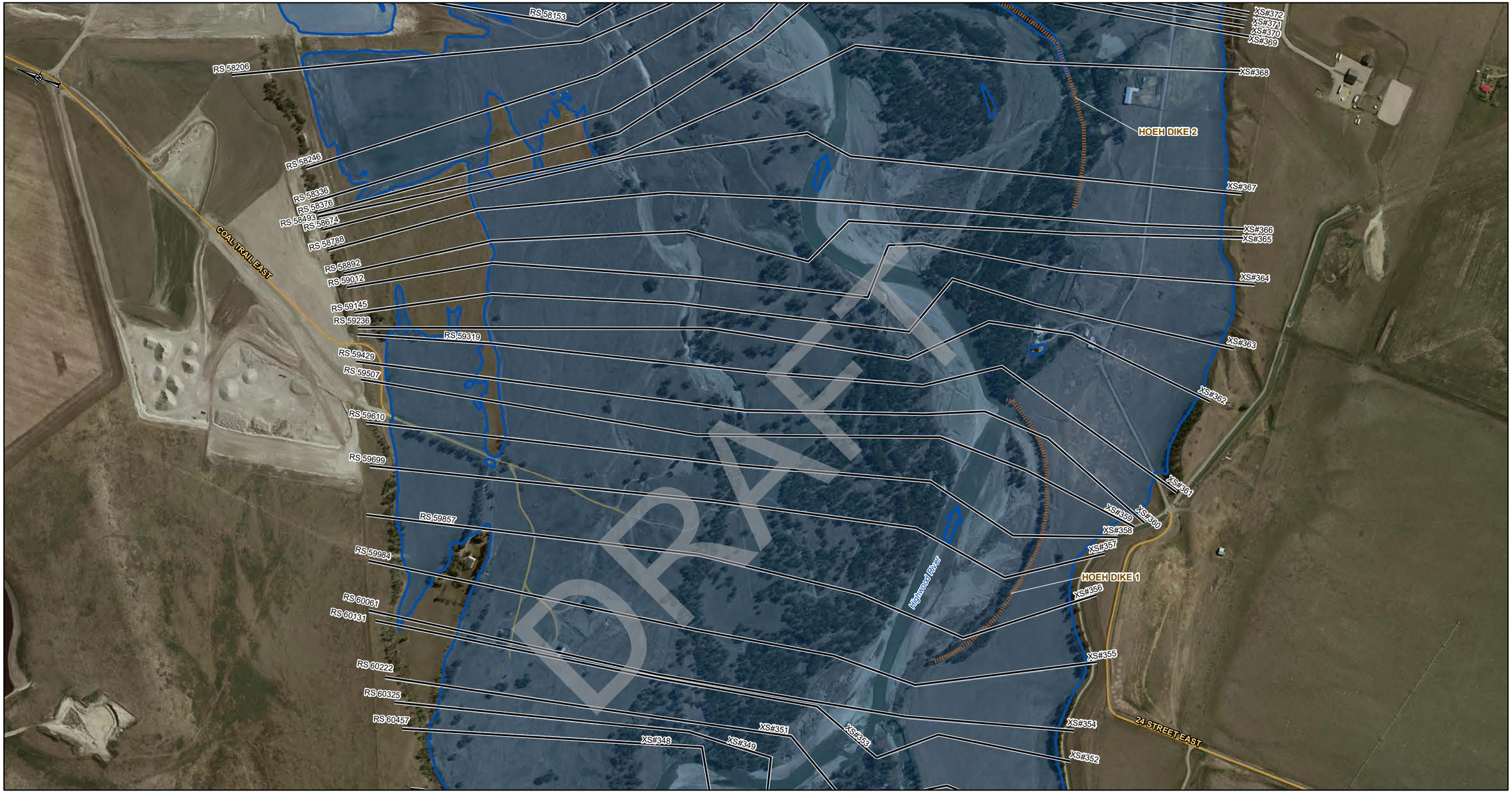
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

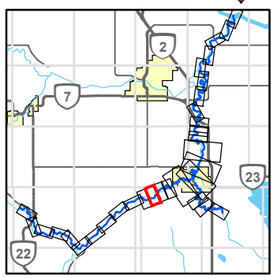
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0500y-Inundation_Rev0.mxd

Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

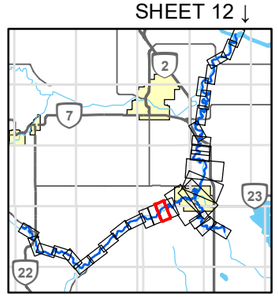
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

REFERENCE(S)
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

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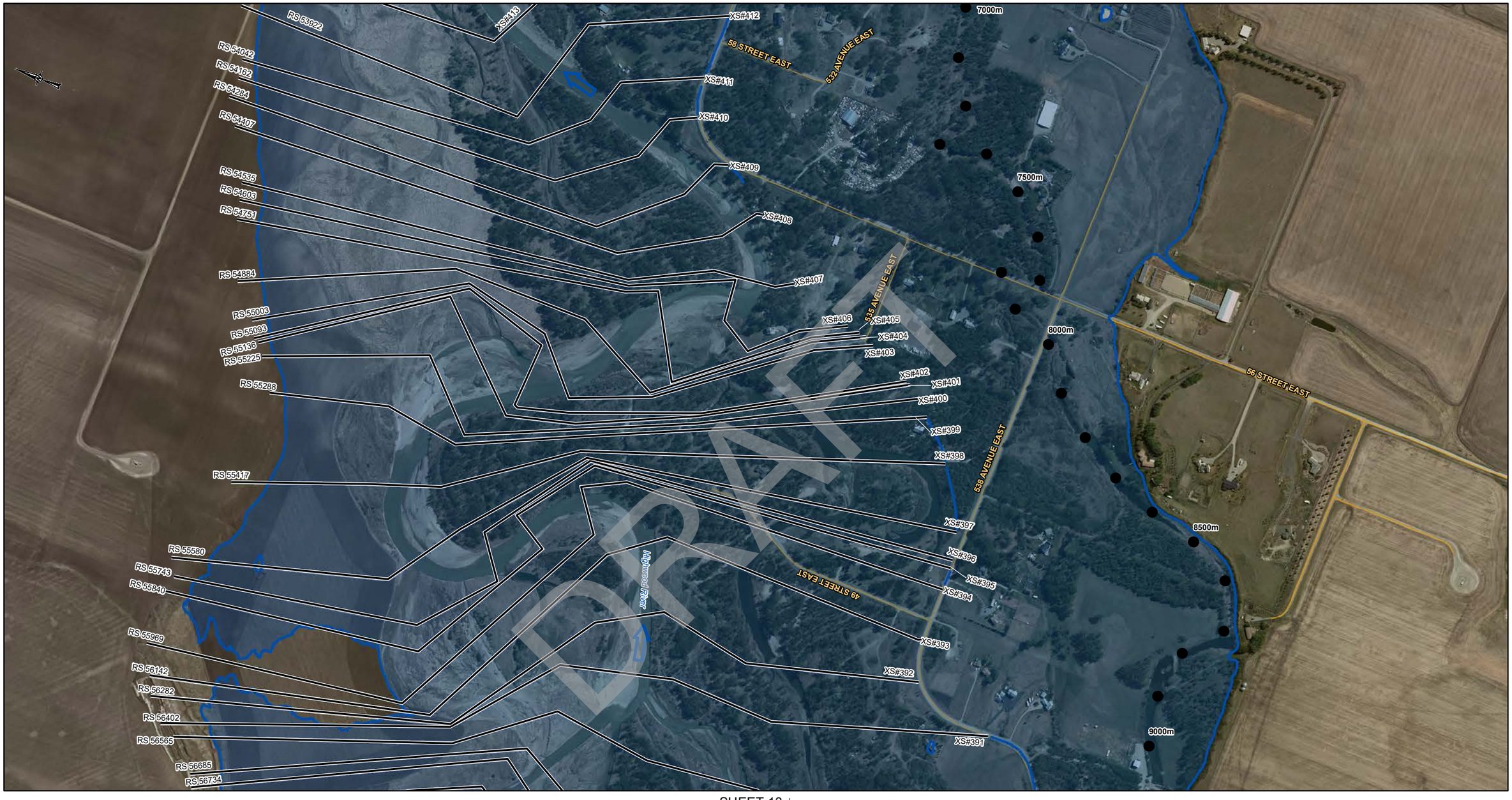
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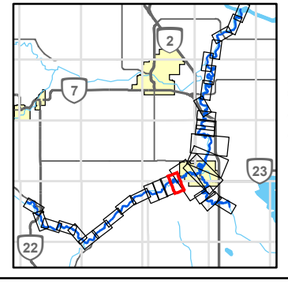
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Classification: Public

SHEET 15 ↑



SHEET 13 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

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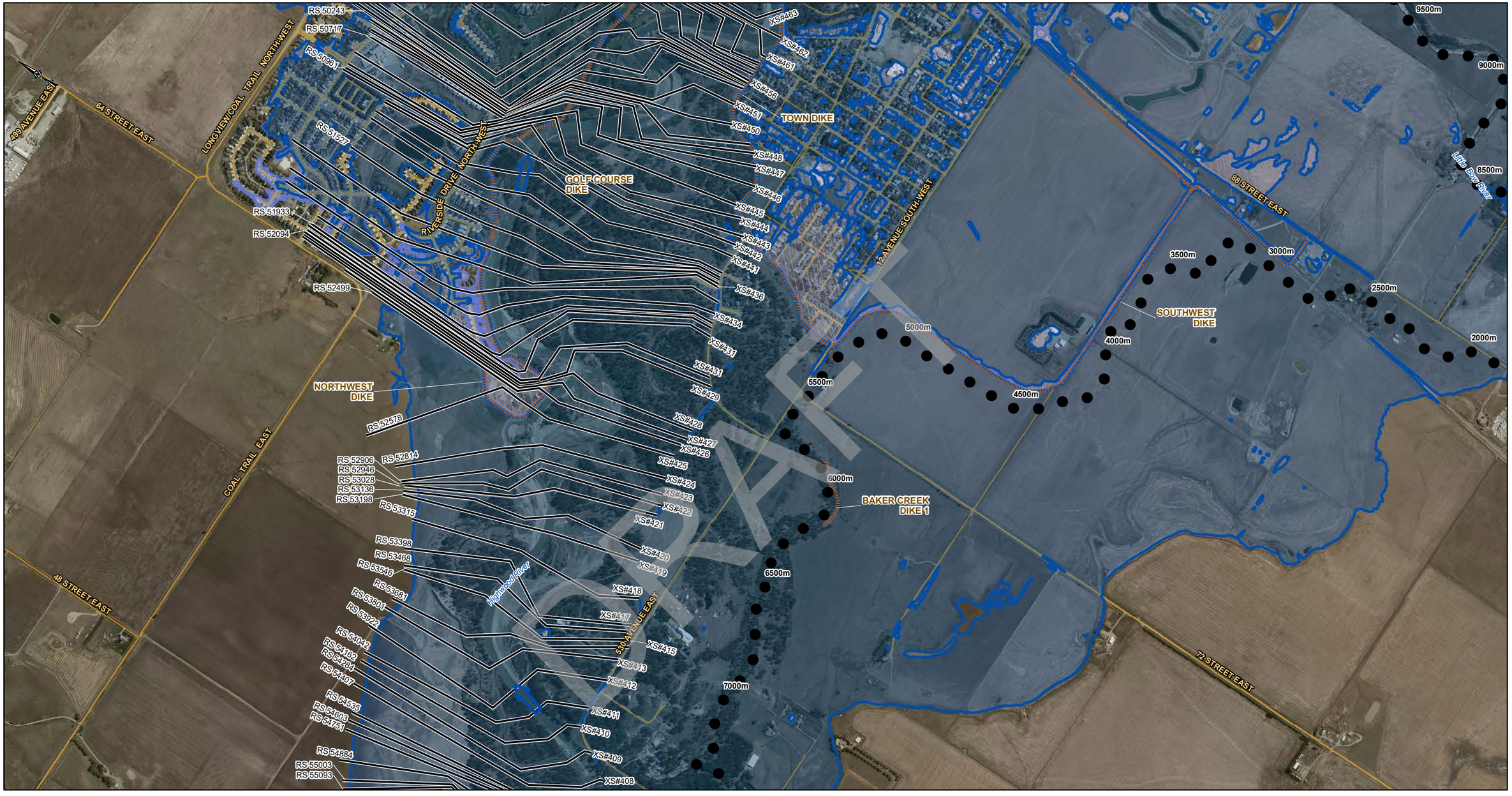
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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

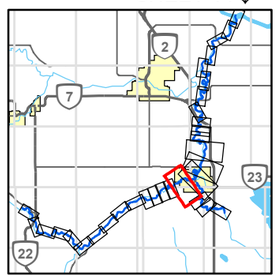
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

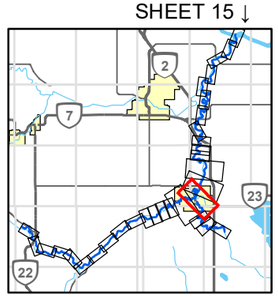
500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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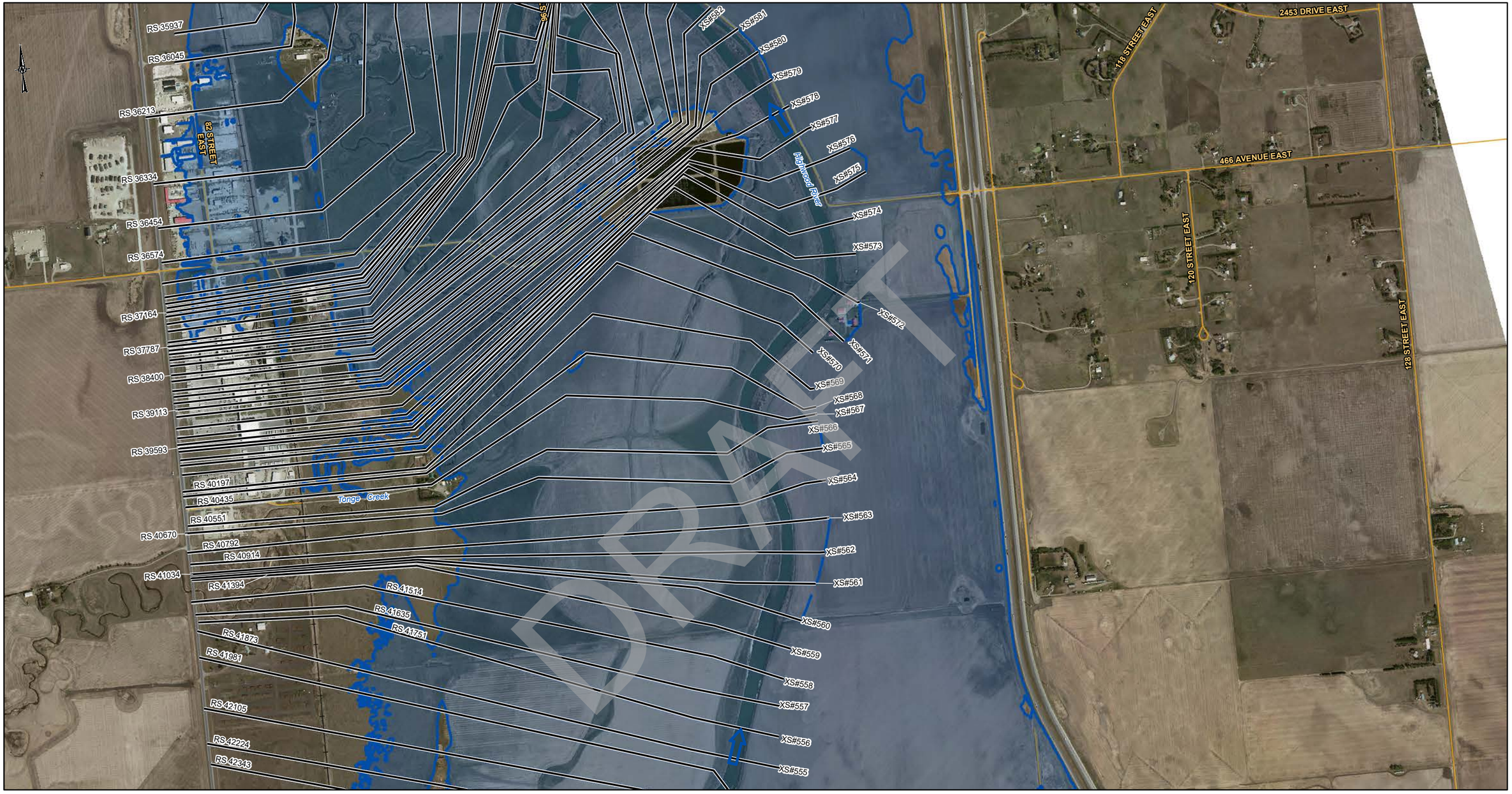
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Classification: Public

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SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

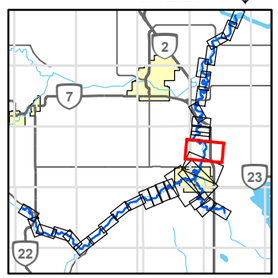
500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

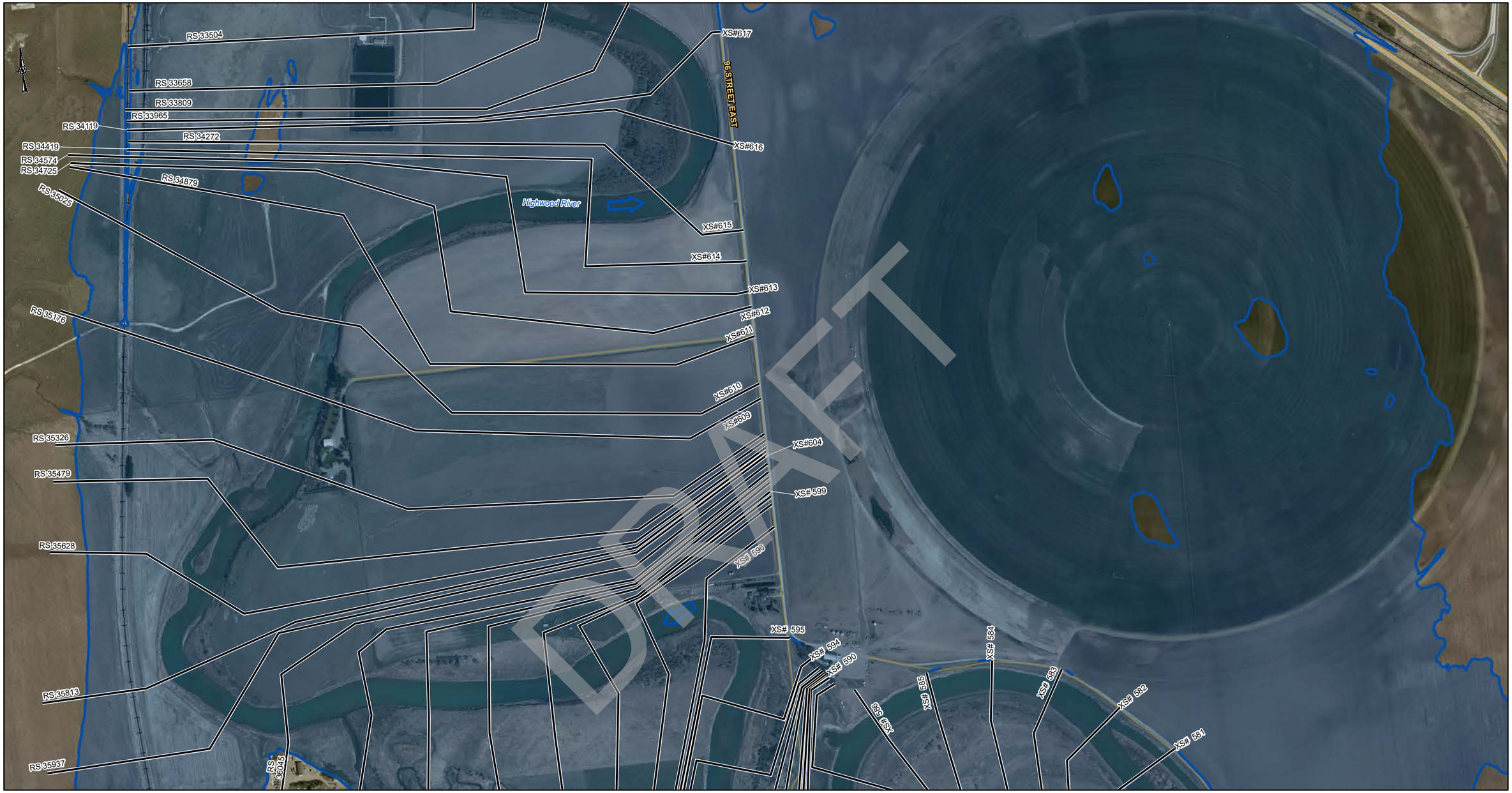
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B
25mm
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Classification: Public

SHEET 20 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

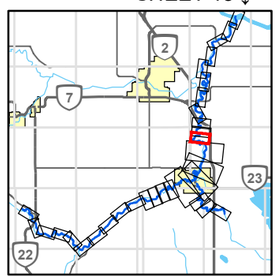
500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

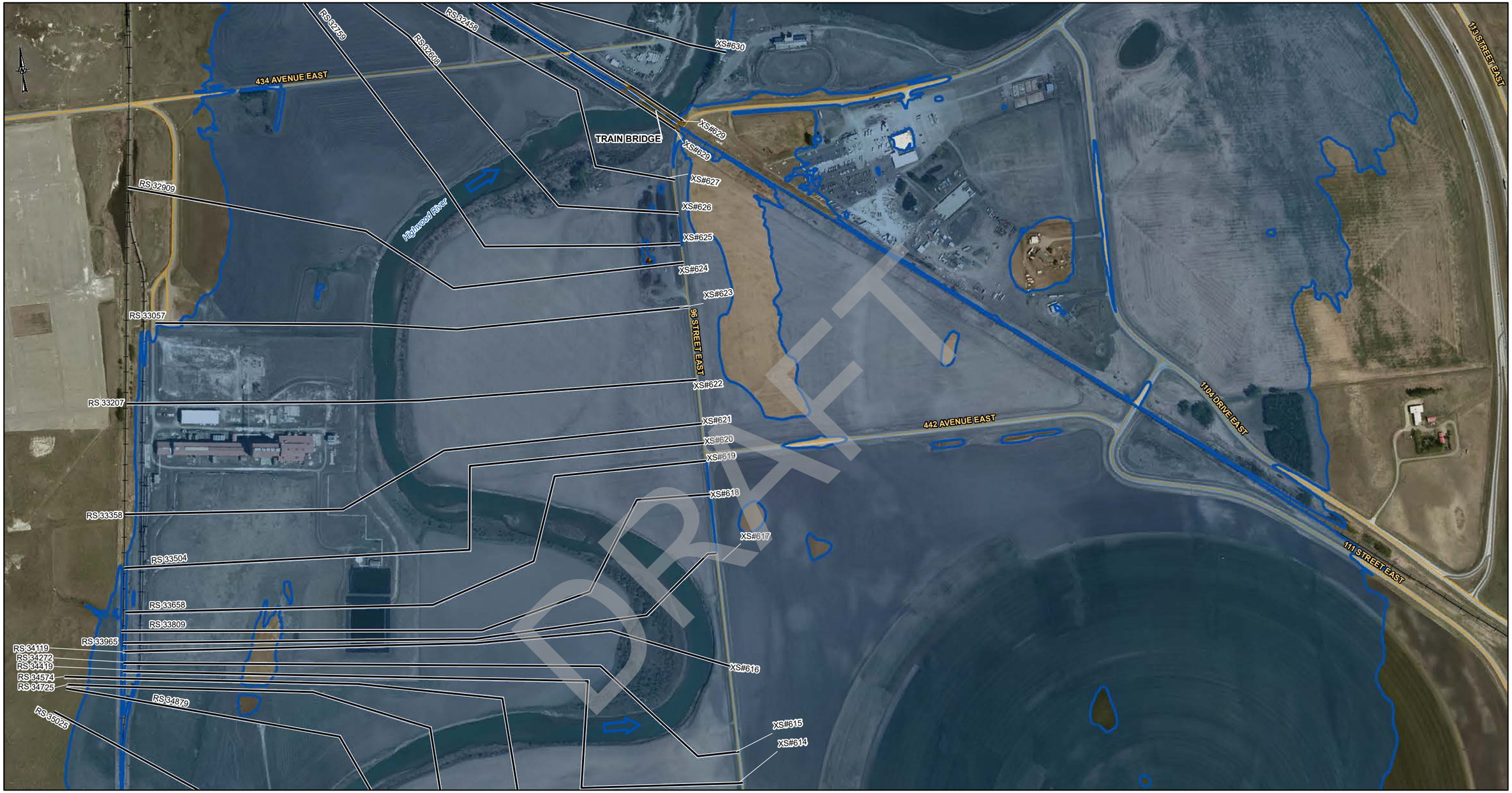
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Classification: Public

SHEET 21 ↑



SHEET 19 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

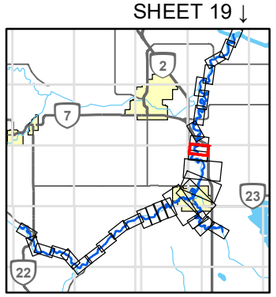
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S



0 250 500
1:7500 METRES

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MEMBER OF WSP

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

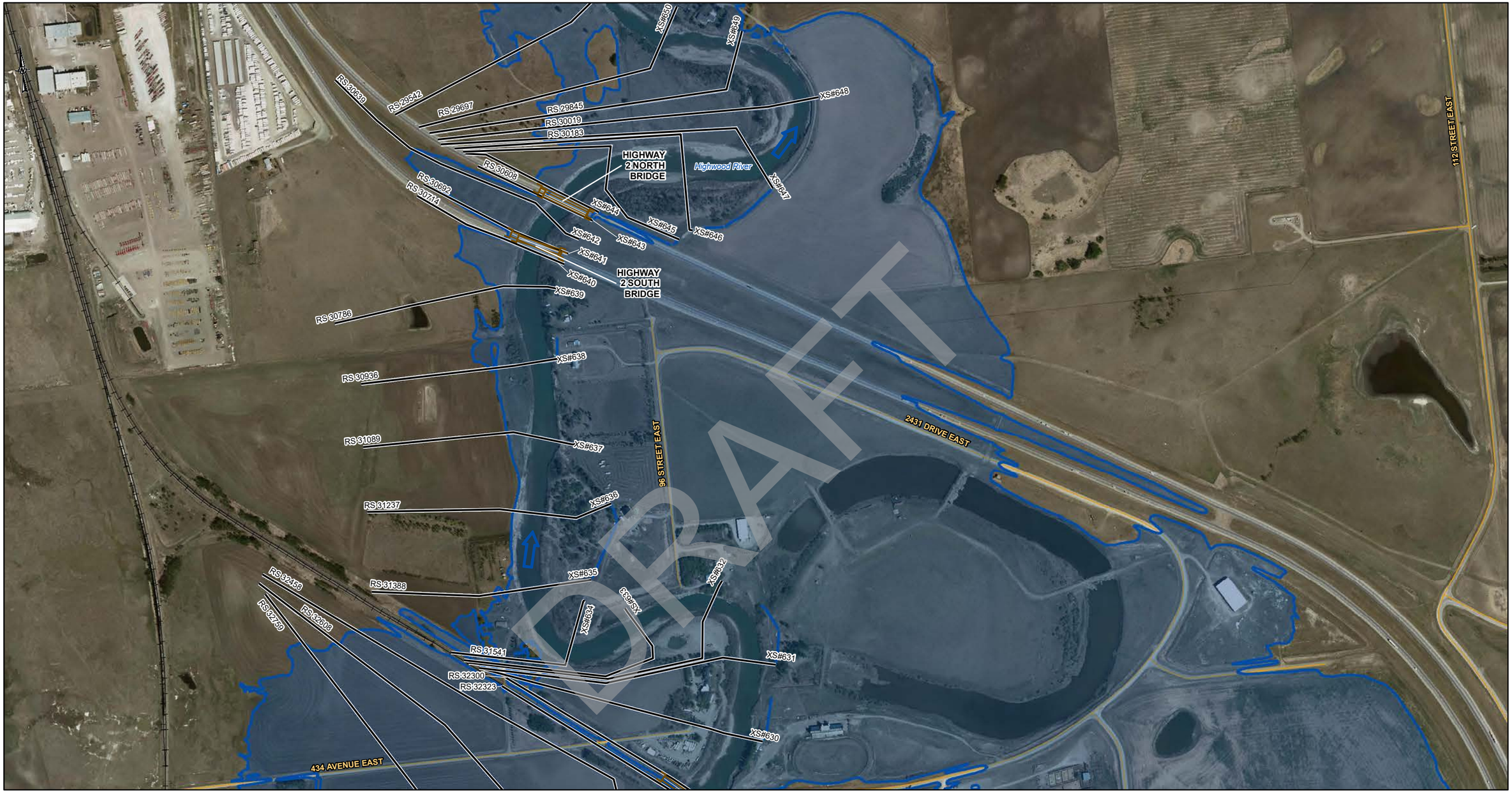
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 22 ↑



SHEET 20 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

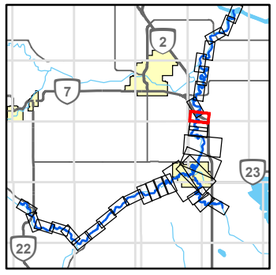
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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DRAFT

Classification: Public



SHEET 21 ↑

SHEET 23 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

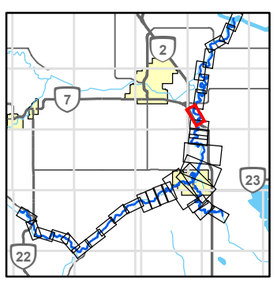
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 22 ↑

SHEET 24 ↓

SILVERTIP PLACE

HIGHWAY 547 BRIDGE

96 STREET EAST

104 STREET EAST

2378 DRIVE EAST

Sheep River

Highwood River

RS 26048 RS 25348 RS 25099 RS 24949 RS 24789 RS 24644 RS 24593 RS 24396 RS 24357 RS 24206 RS 24061 RS 23899 RS 23754 RS 23669 RS 23447 RS 23299 RS 23152 RS 23000 RS 22843 RS 22696 RS 22548 RS 22361 RS 22269 RS 22090 RS 21989 RS 21799 RS 21666 RS 21654 RS 21568 RS 21482 RS 21345 RS 21181 RS 21029 RS 20876 RS 20722

XS#678 XS#679 XS#680 XS#681 XS#682 XS#684 XS#685 XS#686 XS#687 XS#688 XS#689 XS#690 XS#691 XS#692 XS#693 XS#694 XS#695 XS#696 XS#697 XS#698 XS#699 XS#700 XS#701 XS#702 XS#703 XS#704 XS#705 XS#706 XS#707 XS#708 XS#709 XS#710 XS#711 XS#712

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

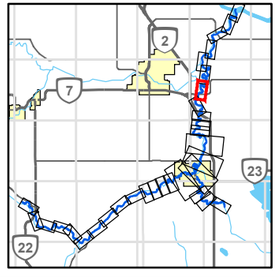
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2500y-Inundation_Rev0.mxd

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25mm
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SHEET 23 ↑

SHEET 25 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

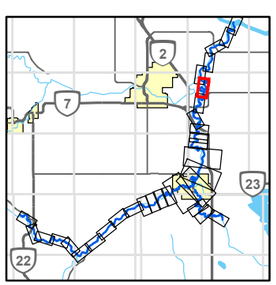
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

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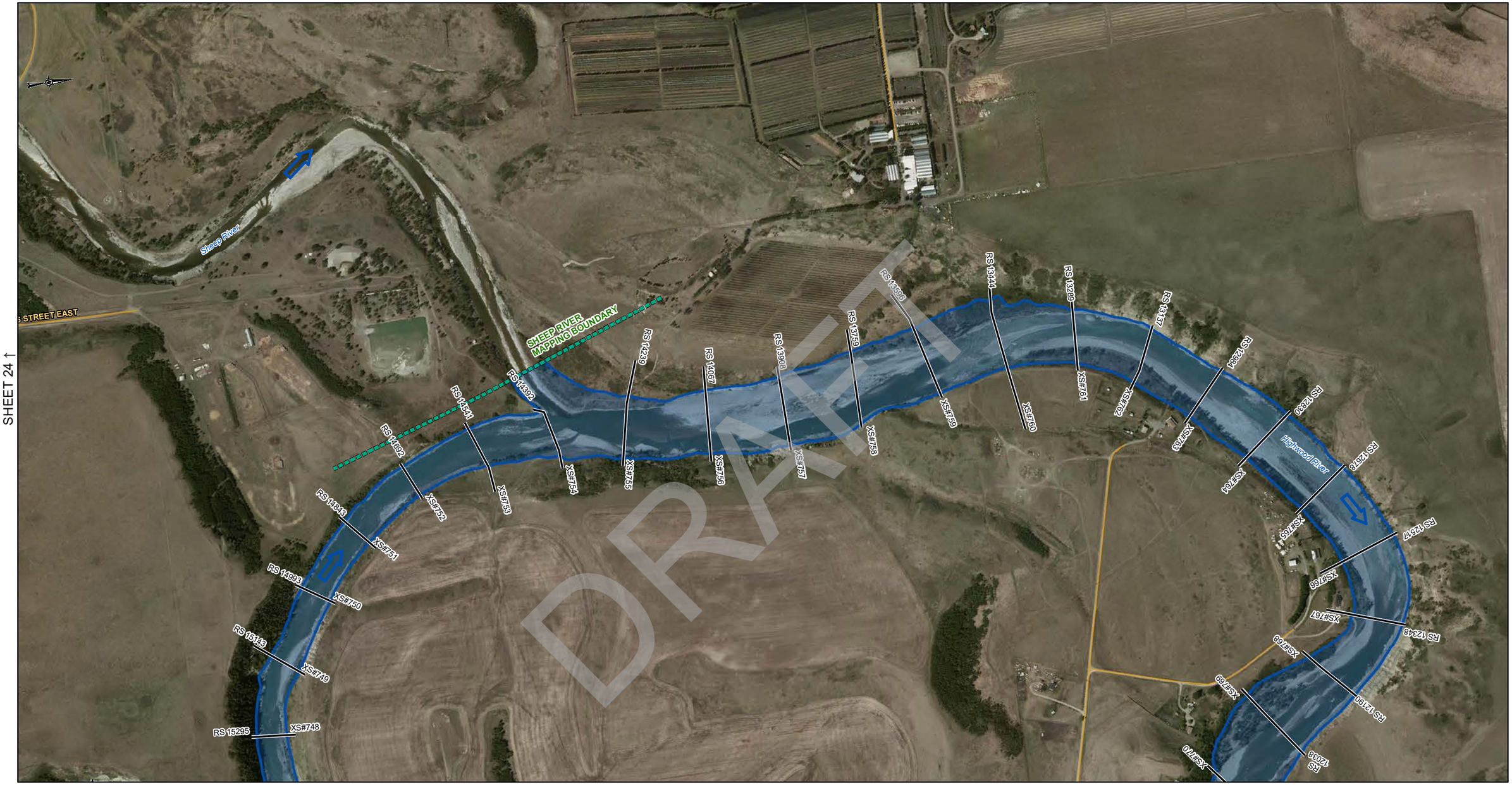
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0 25mm

Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

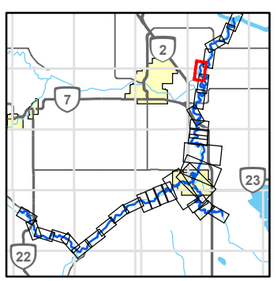
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2650 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 4412 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

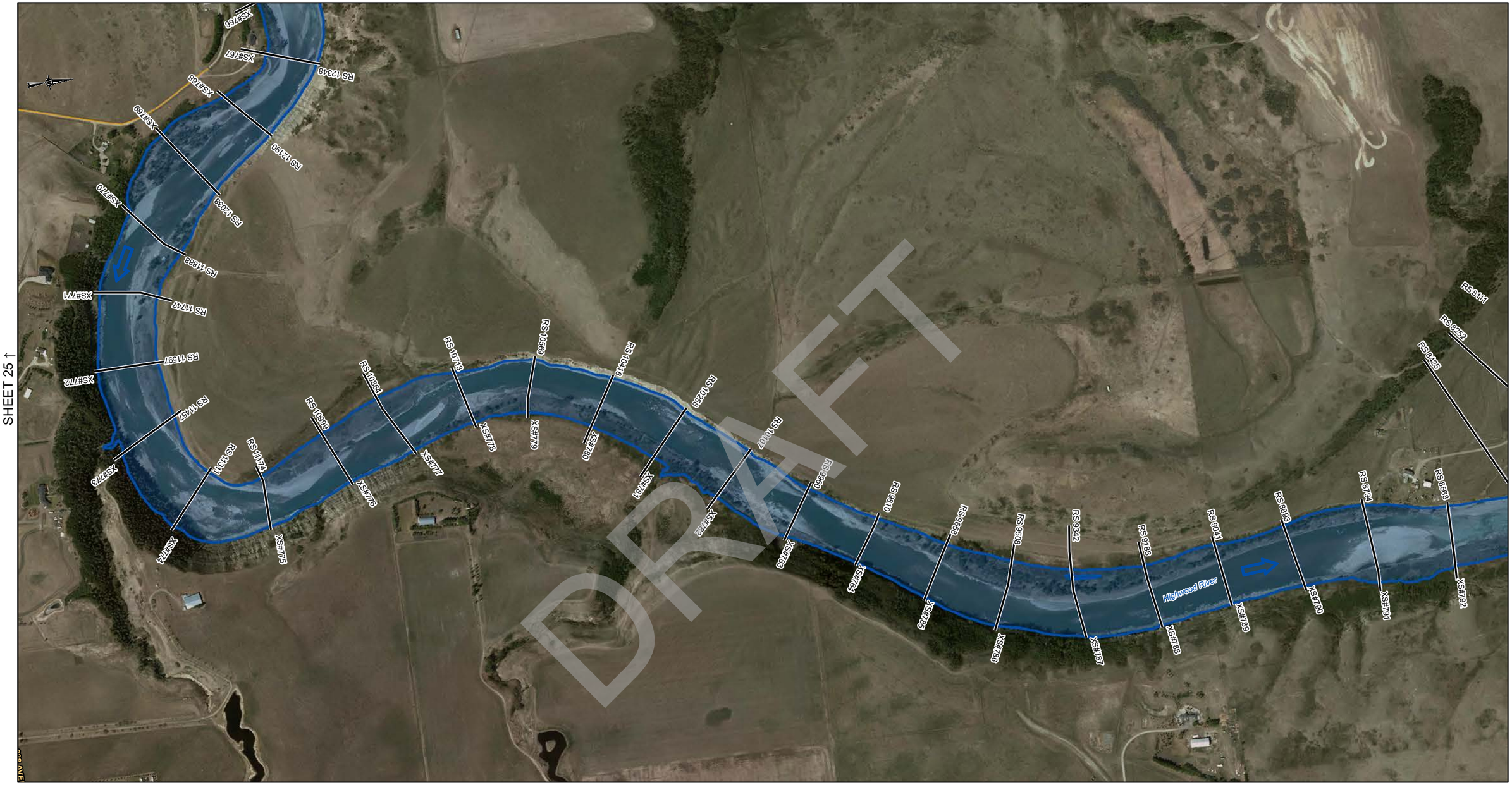
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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
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- FLOW DIRECTION
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 4412 M^3/S

0 250 500
1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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Classification: Public

SHEET 26 ↑

SHEET 28 ↓


1121 DRIVE EAST
WEIR UPSTREAM OF HIGHWAY 552 BRIDGE CROSSING
HIGHWAY 552 BRIDGE
Highwood River
RS 7672
RS 7604
RS 7491
RS 7370
RS 7245
RS 7124
RS 7616
RS 7959
RS 8111
RS 8252
RS 8425
RS 8568
RS 8734
RS 6857
RS 6892
RS 6940
RS 6769
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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

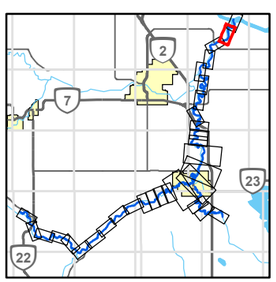
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 4412 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

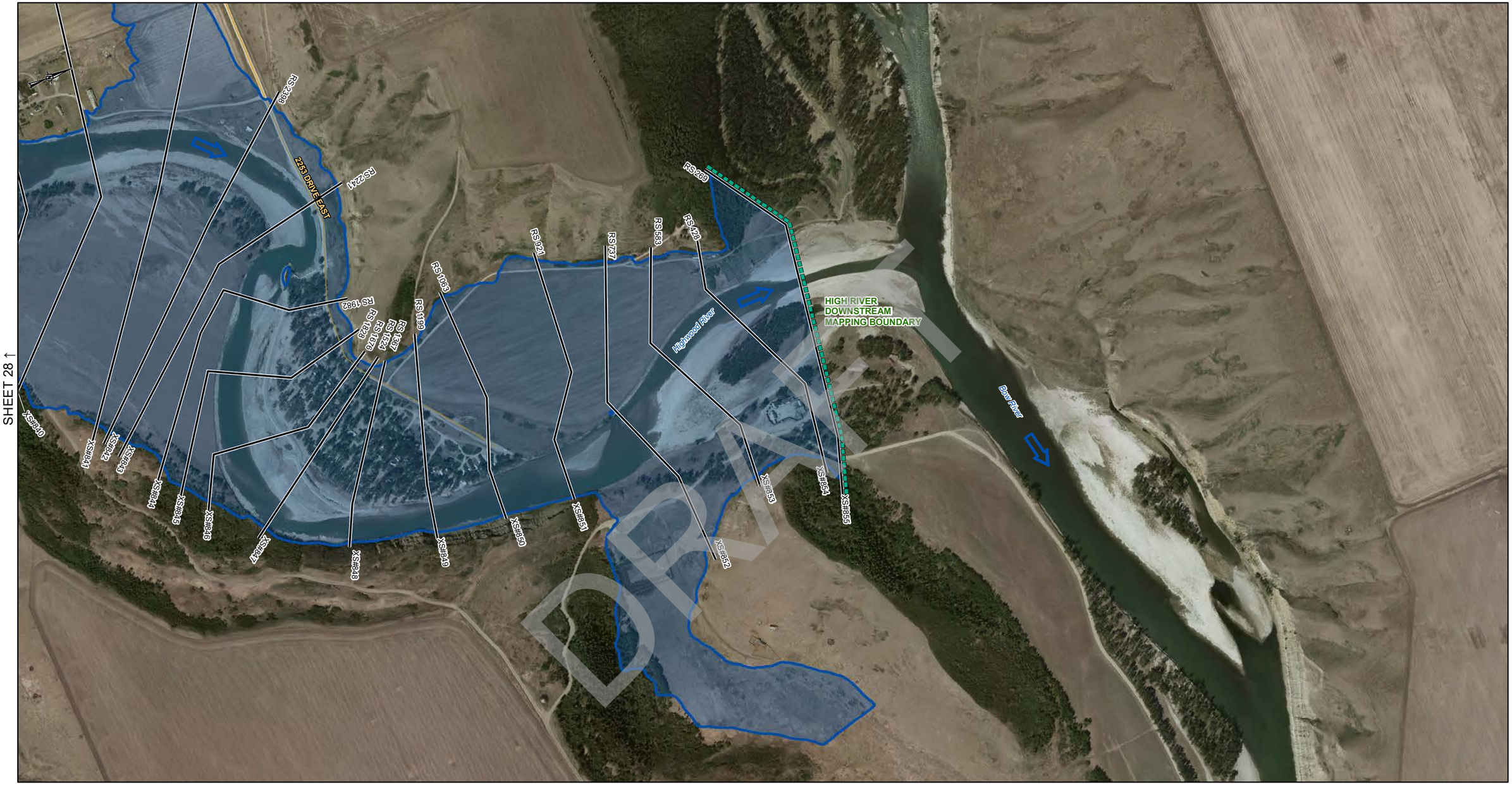
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536969_0500y-Inundation_Rev0.mxd

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

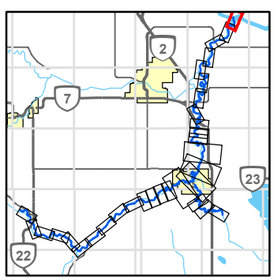
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 4412 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)
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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500yr-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

SHEET15 ↑

SHEET 16 ↓



SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1725 M^3/S

0 250 500

1:7500 METRES

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

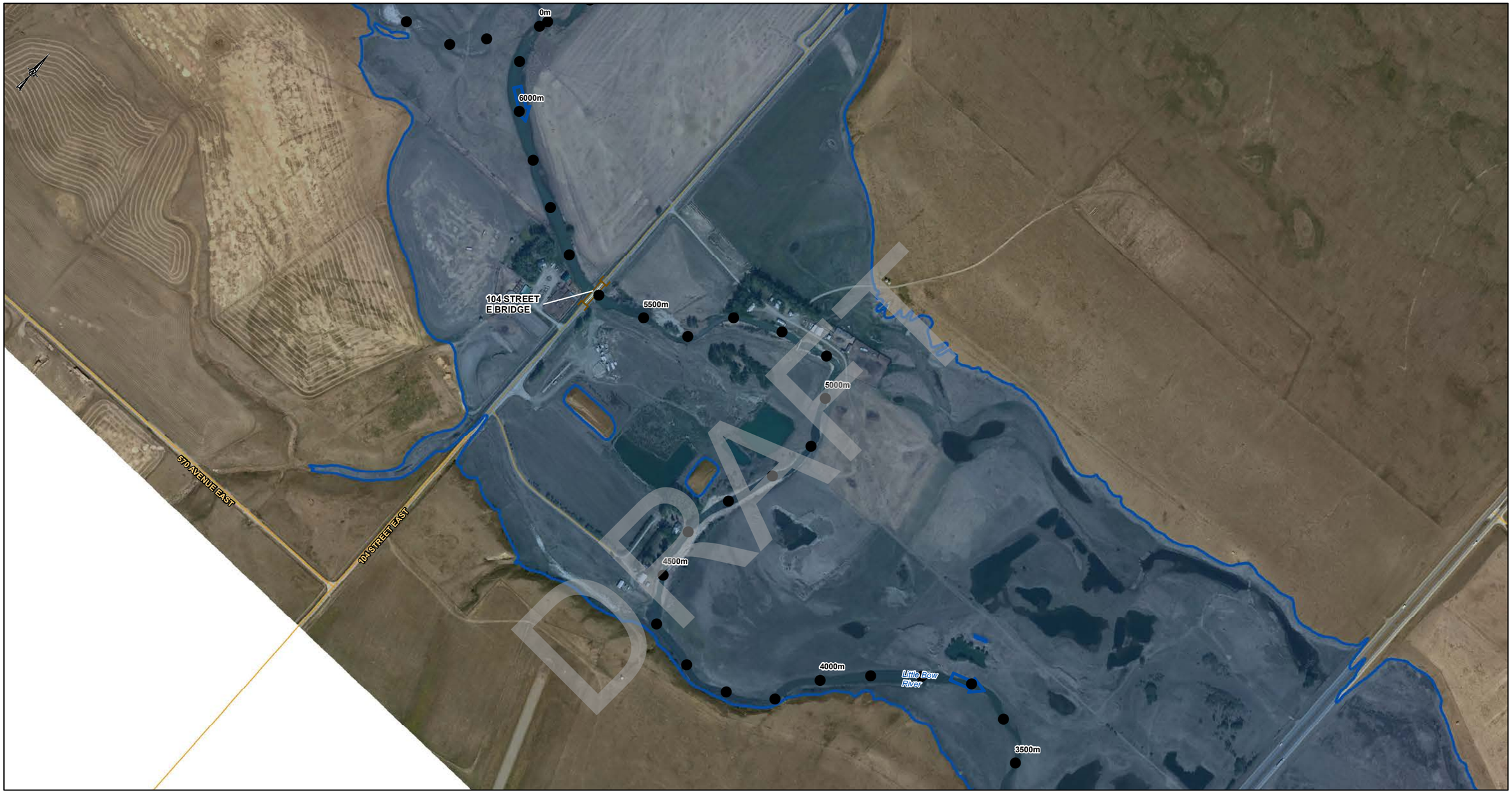
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Classification: Public

SHEET 30 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

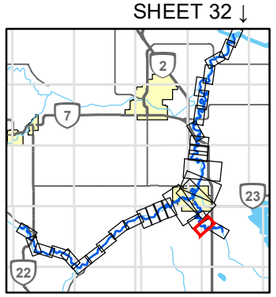
500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1725 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

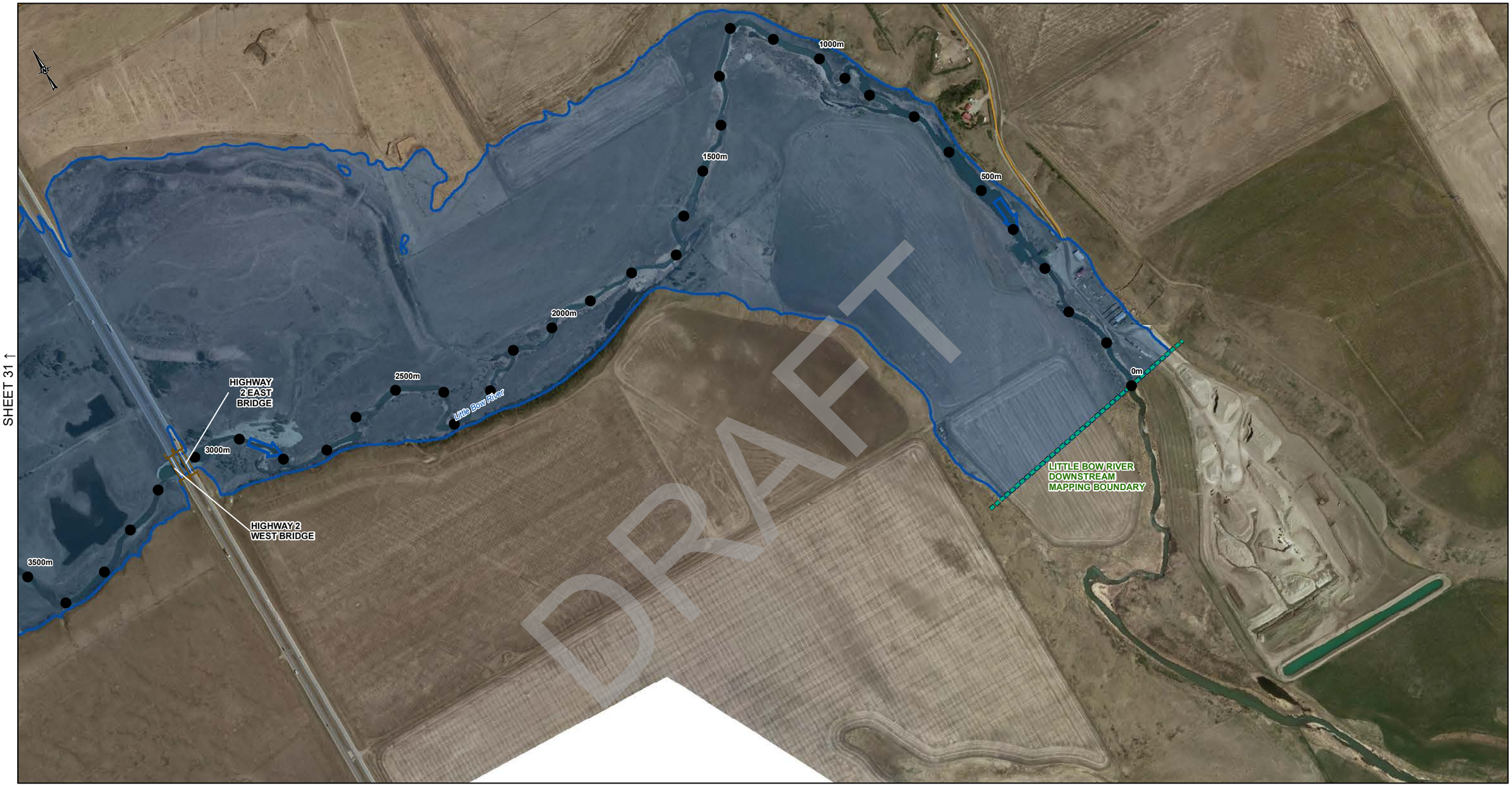
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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

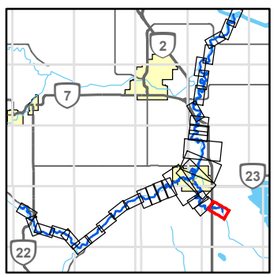
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 1725 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

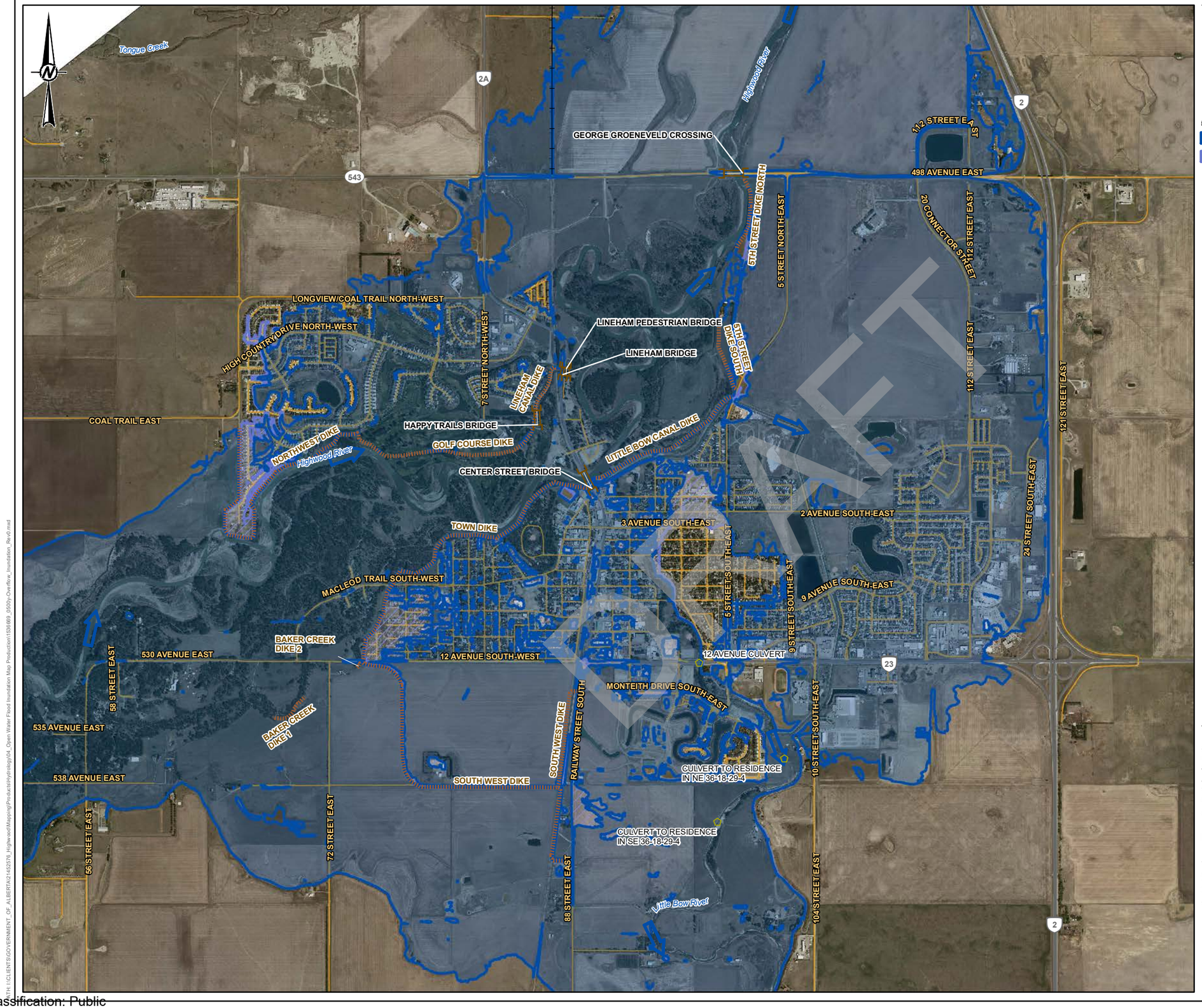
TITLE
500 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

PATH: I:\CLIENT\$\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2500y-Inundation_Rev0.mxd

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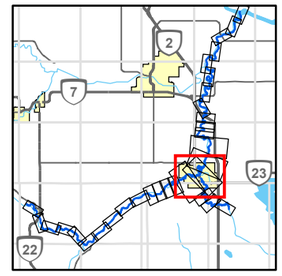
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

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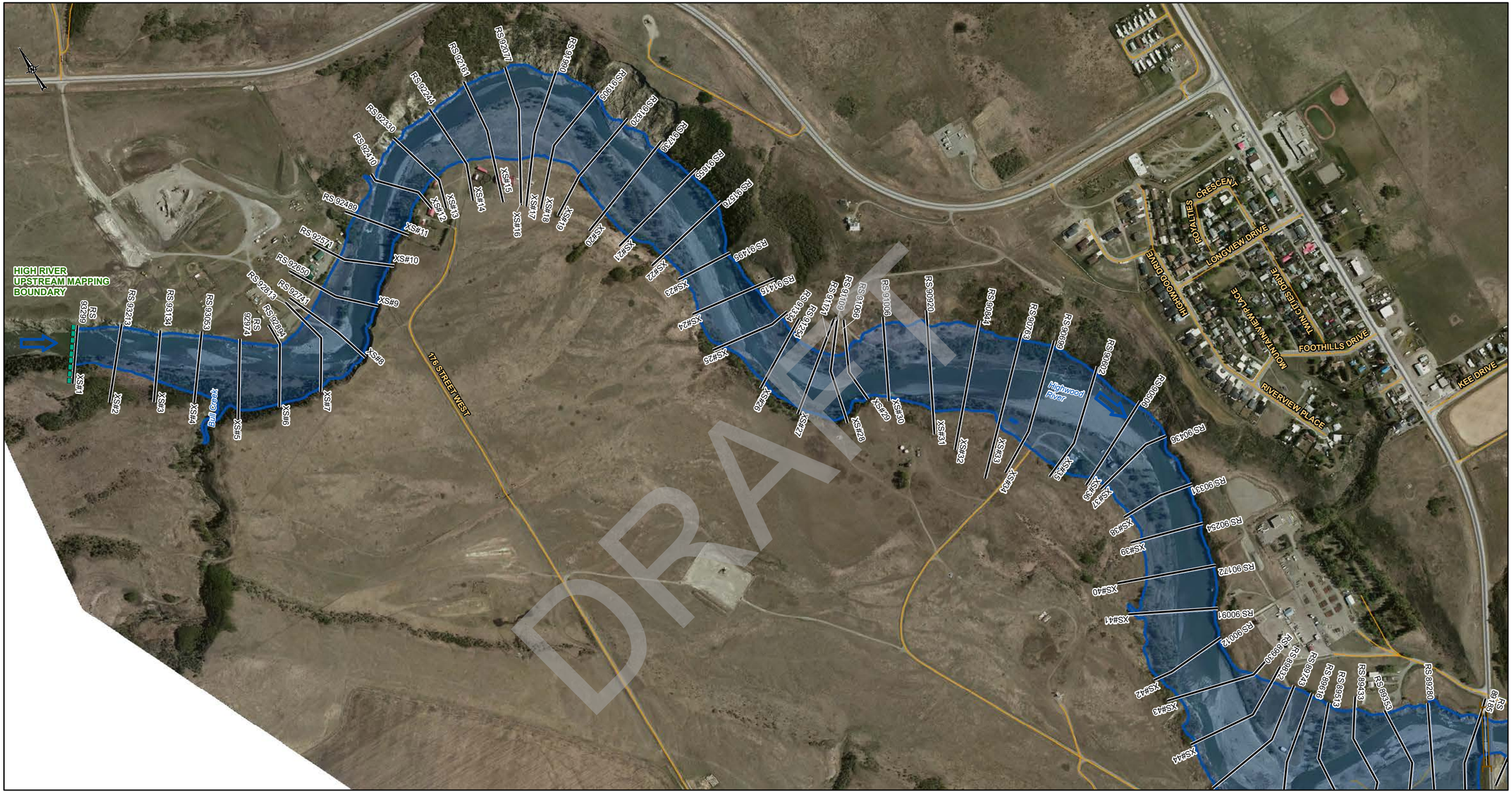
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Classification: Public

750-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

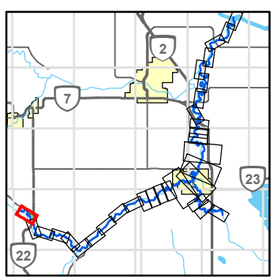
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

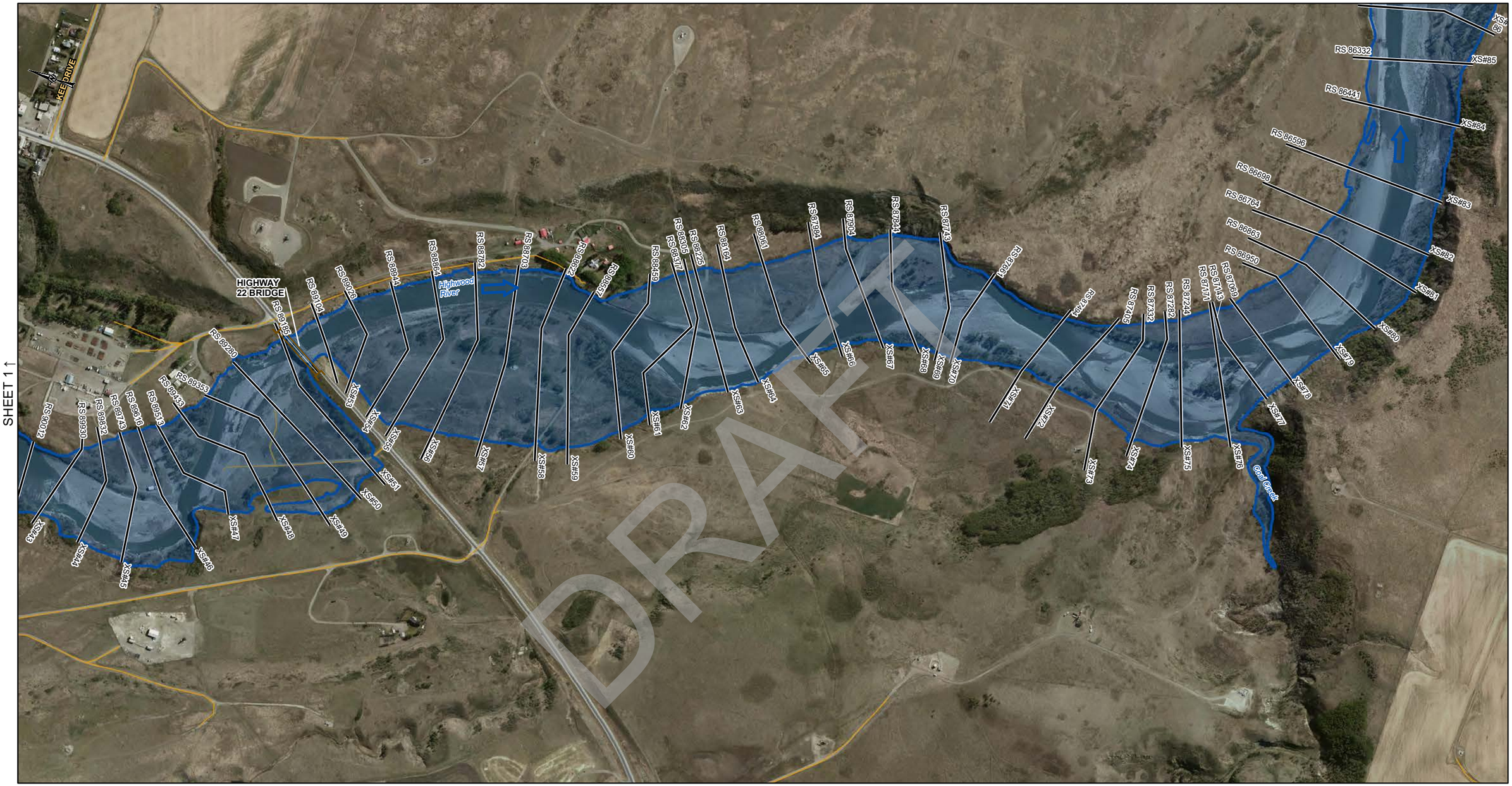
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public



DRAFT

SHEET 1 ↑

SHEET 3 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

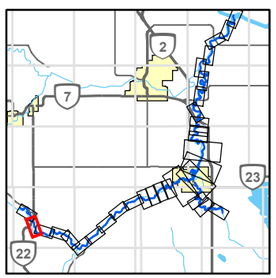
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

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25mm 0

Classification: Public

SHEET 2 ↑

SHEET 4 ↓

DRAFT

144 STREET WEST

Highwood River

RS 87743 RS 87661 RS 87494 RS 87406 RS 87362 RS 87292 RS 87241 RS 87171 RS 87143 RS 87069 RS 86950 RS 86863 RS 86764 RS 86699 RS 86556 RS 86441 RS 86332 RS 86229 RS 86151 RS 86051 RS 85946 RS 85866 RS 85807 RS 85756 RS 85606 RS 85501 RS 85390 RS 85271 RS 85179 RS 85091 RS 84963 RS 84862 RS 84795 RS 84709 RS 84576 RS 84513 RS 84431 RS 84350 RS 84264 RS 84201 RS 84124 RS 84042 RS 83952 RS 83924 RS 83868 RS 83809 RS 83731 RS 83645 RS 83564 RS 83476 RS 83376

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42 XS#43 XS#44 XS#45 XS#46 XS#47 XS#48 XS#49 XS#50 XS#51 XS#52 XS#53 XS#54 XS#55 XS#56 XS#57 XS#58 XS#59 XS#60 XS#61 XS#62 XS#63 XS#64 XS#65 XS#66 XS#67 XS#68 XS#69 XS#70 XS#71 XS#72 XS#73 XS#74 XS#75 XS#76 XS#77 XS#78 XS#79 XS#80 XS#81 XS#82 XS#83 XS#84 XS#85 XS#86 XS#87 XS#88 XS#89 XS#90 XS#91 XS#92 XS#93 XS#94 XS#95 XS#96 XS#97 XS#98 XS#99 XS#100 XS#101 XS#102 XS#103 XS#104 XS#105 XS#106 XS#107 XS#108 XS#109 XS#110 XS#111 XS#112 XS#113 XS#114 XS#115 XS#116 XS#117 XS#118 XS#119 XS#120 XS#121 XS#122

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

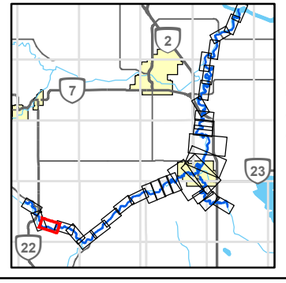
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21462576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

DRAFT

Highwood River

112 STREET WEST

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S

0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

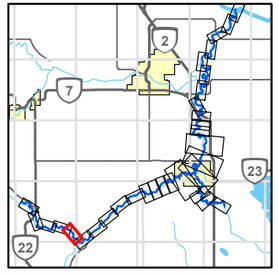
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

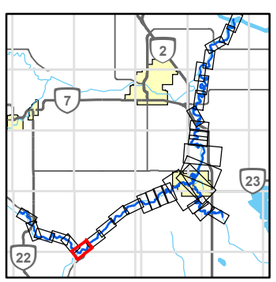
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3340 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500
1:7500 METRES

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

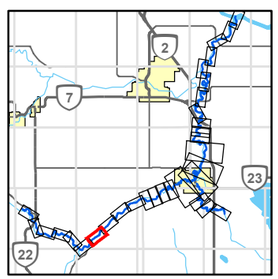
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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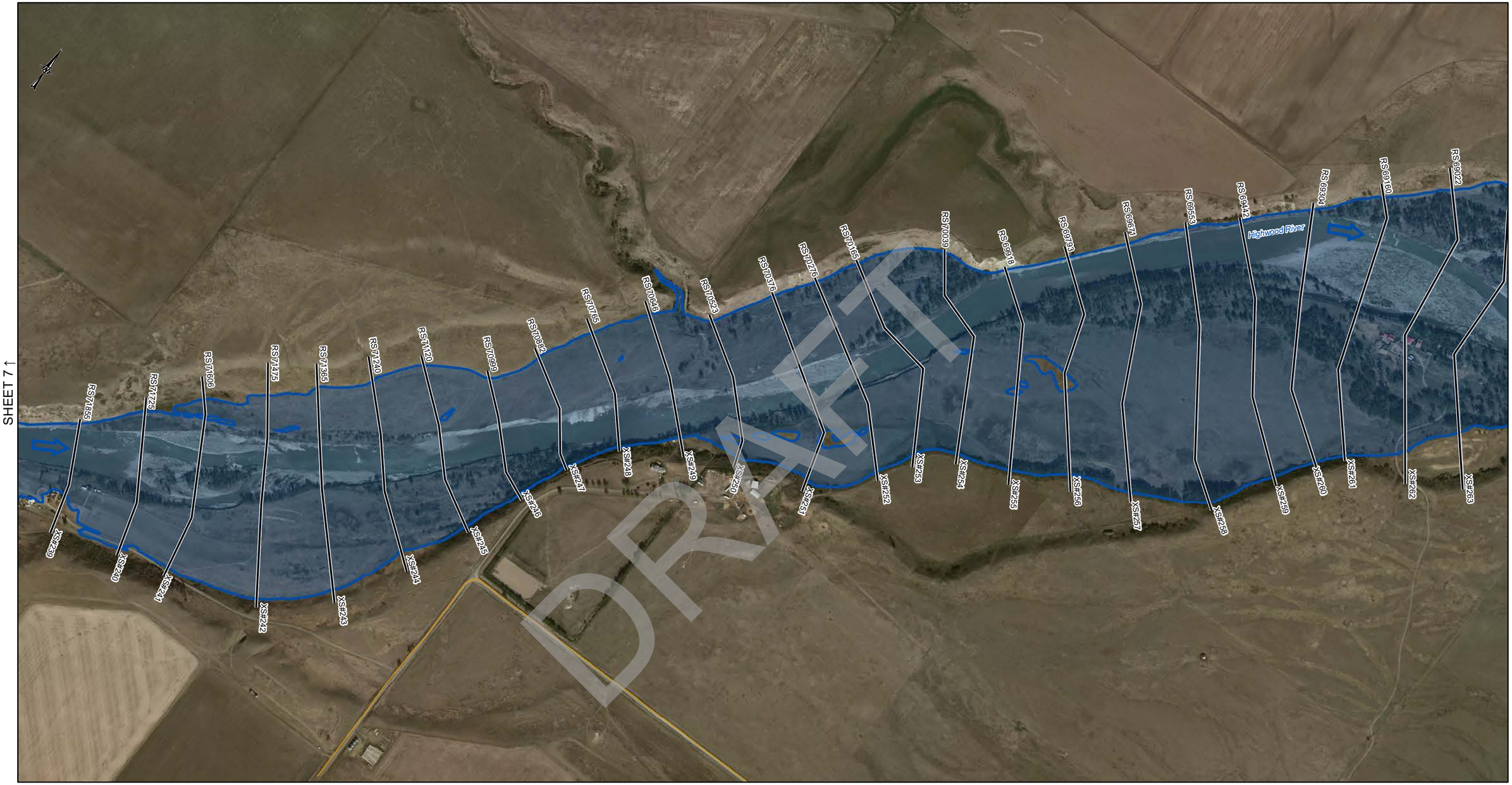
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Classification: Public

SHEET 7 ↑

SHEET 9 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

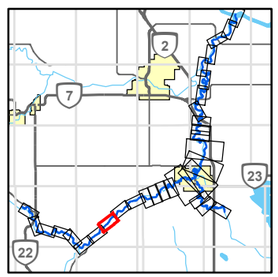
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

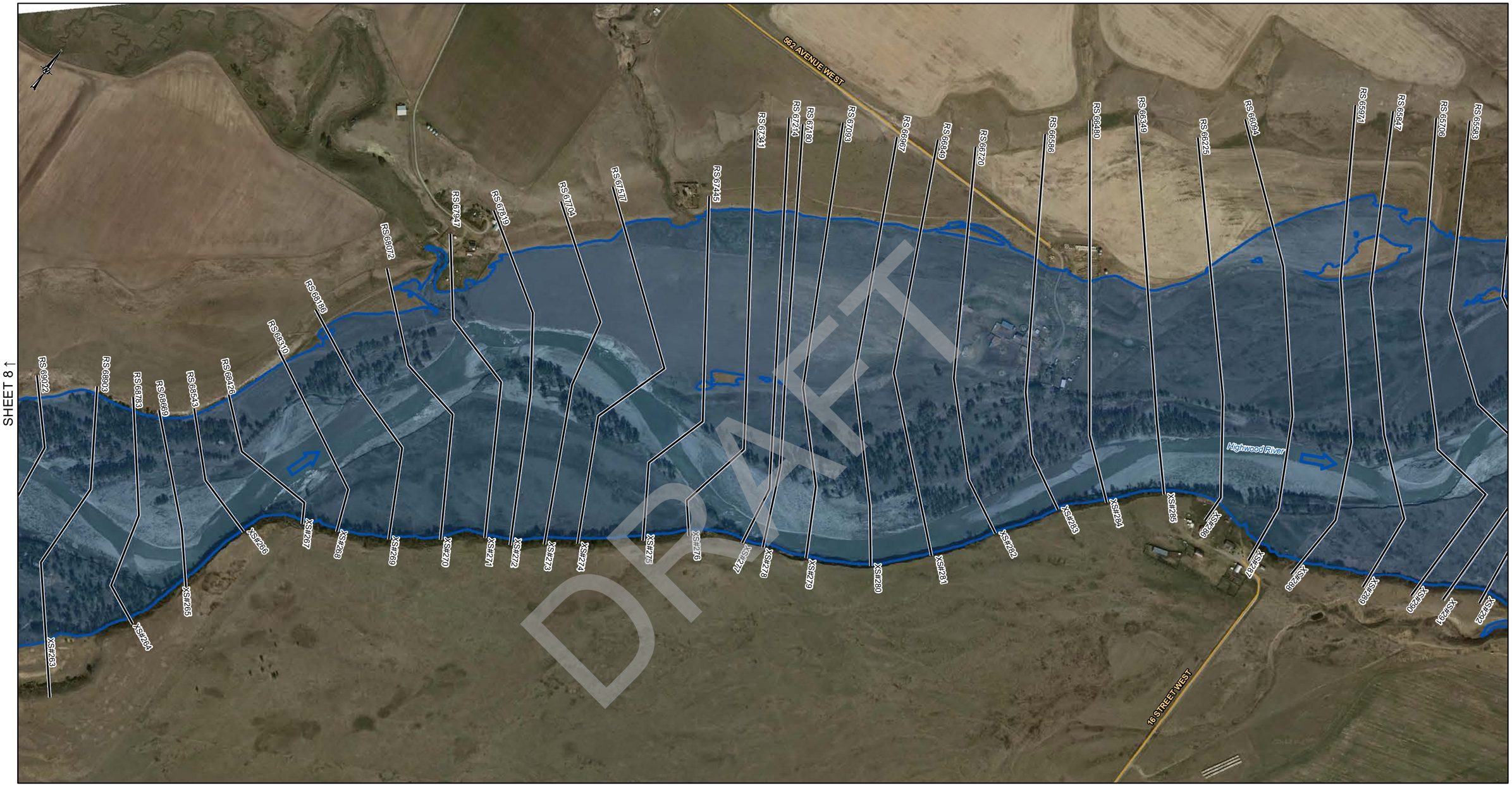
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

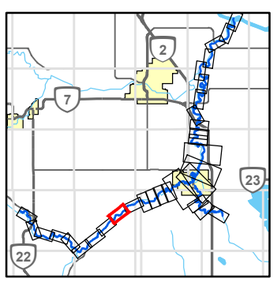
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

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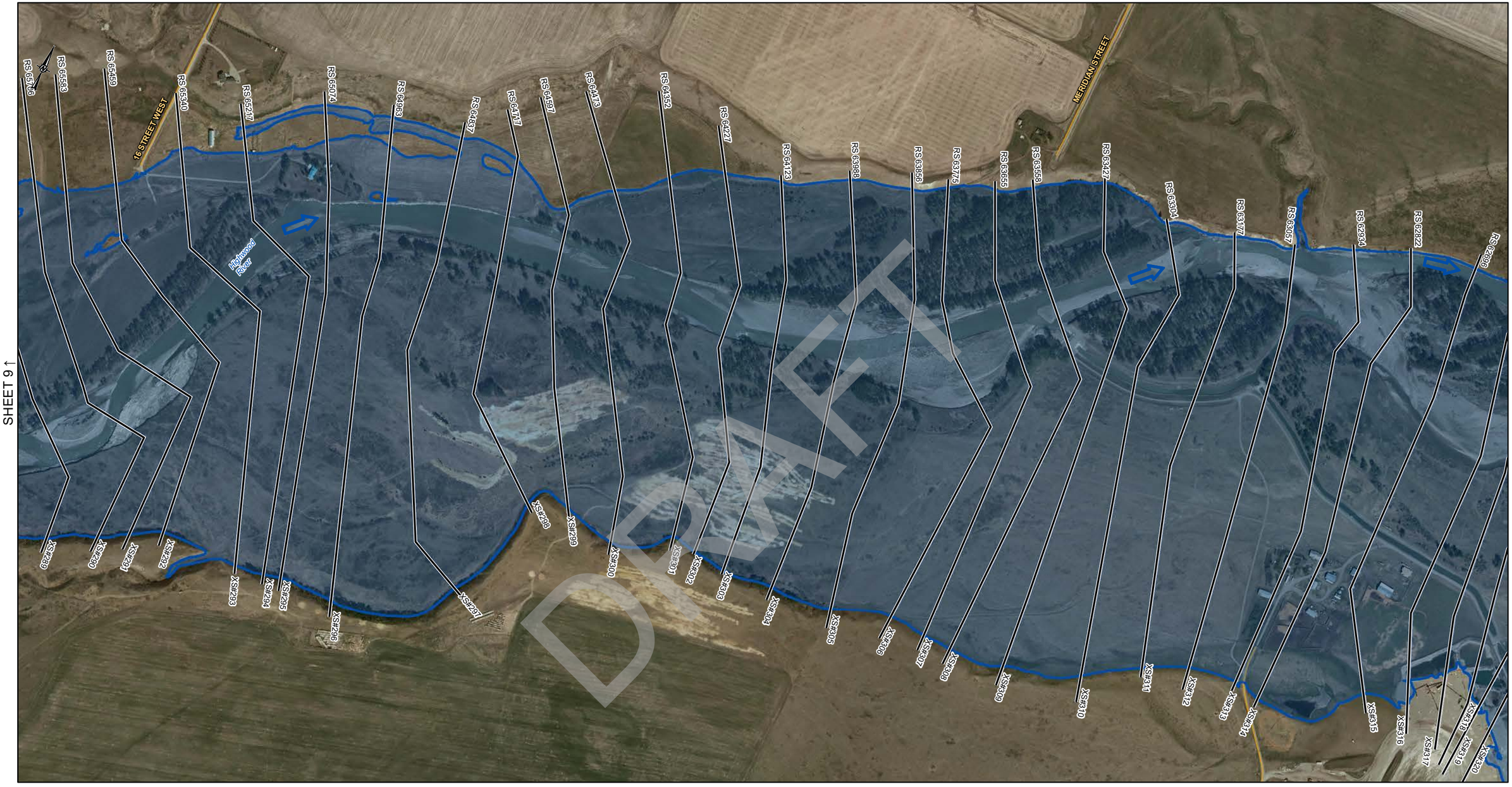
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

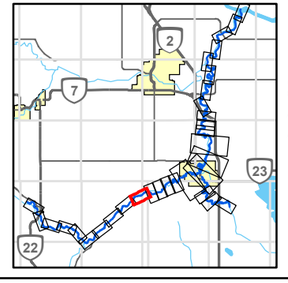
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0759y-Inundation_Rev0.mxd

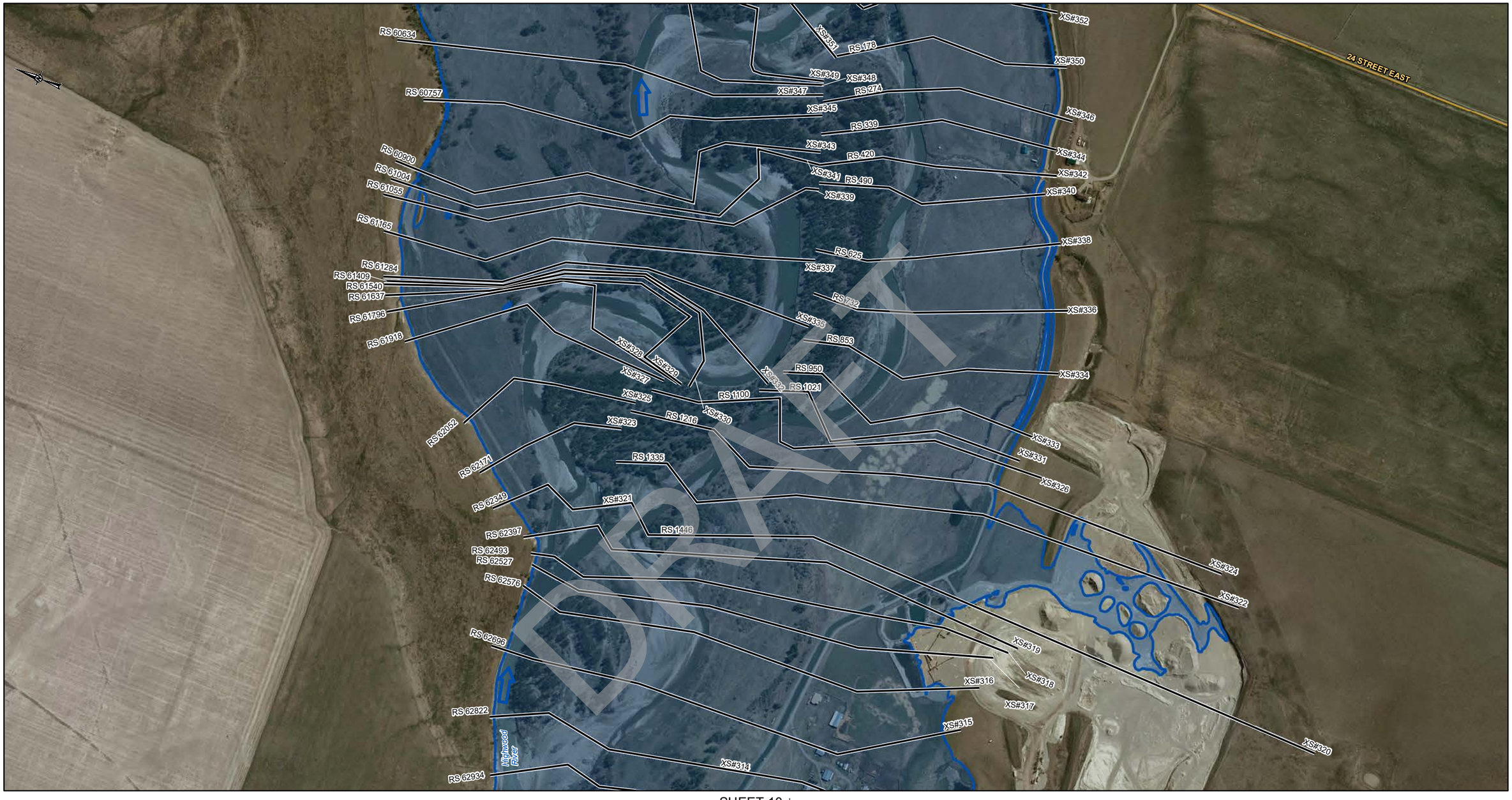
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

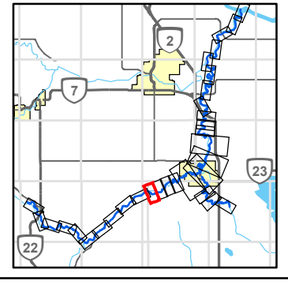
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 1970 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 3360 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

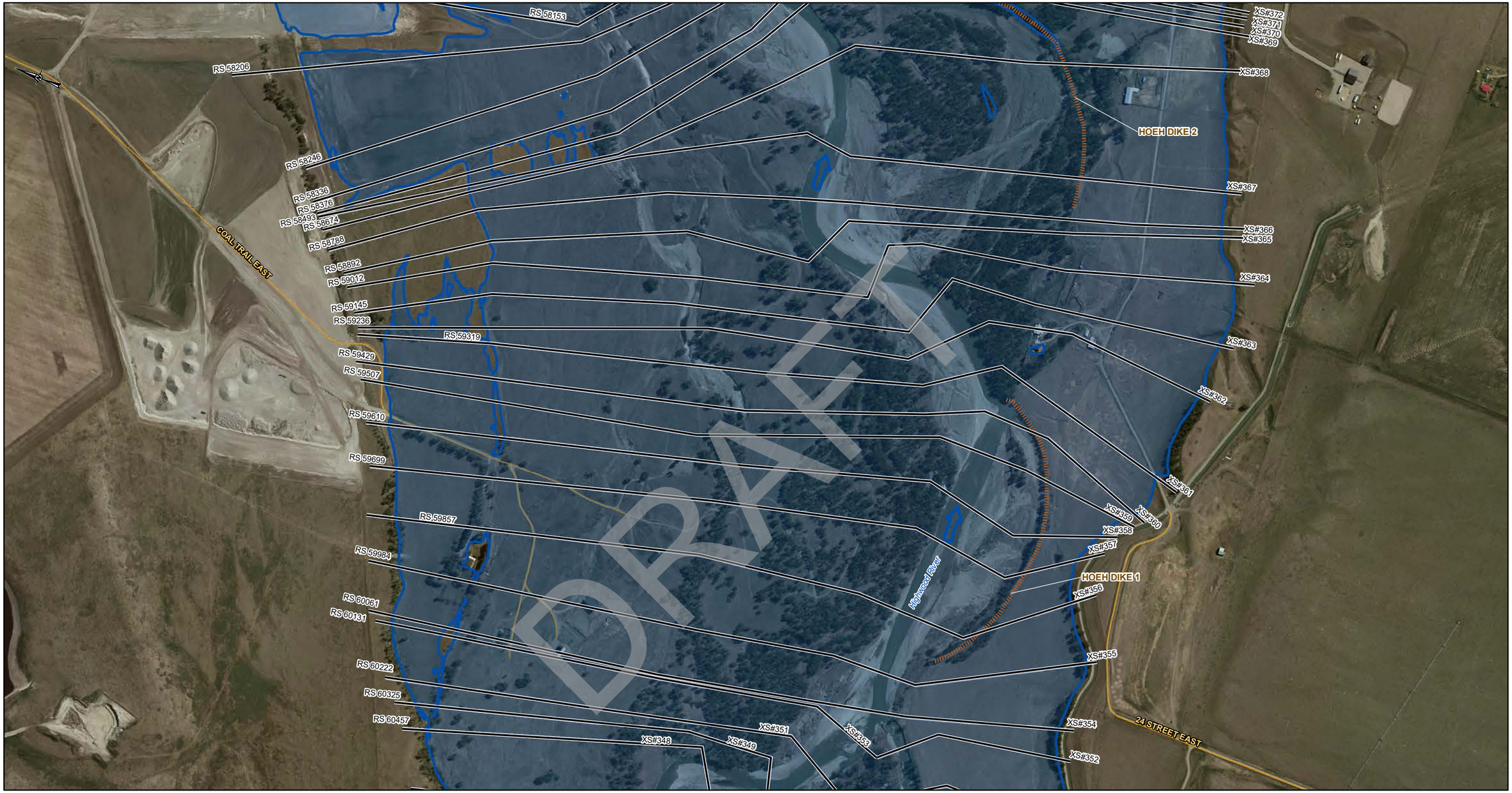
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0 25mm

Classification: Public

SHEET 13 ↑



SHEET 11 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

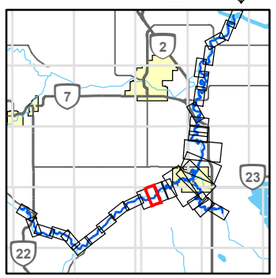
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

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25mm 0

Classification: Public

SHEET 14 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

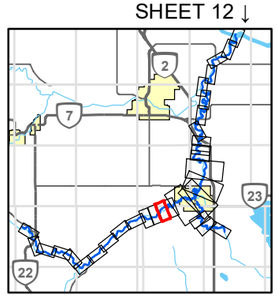
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S

SHEET 12 ↓



0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Production\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

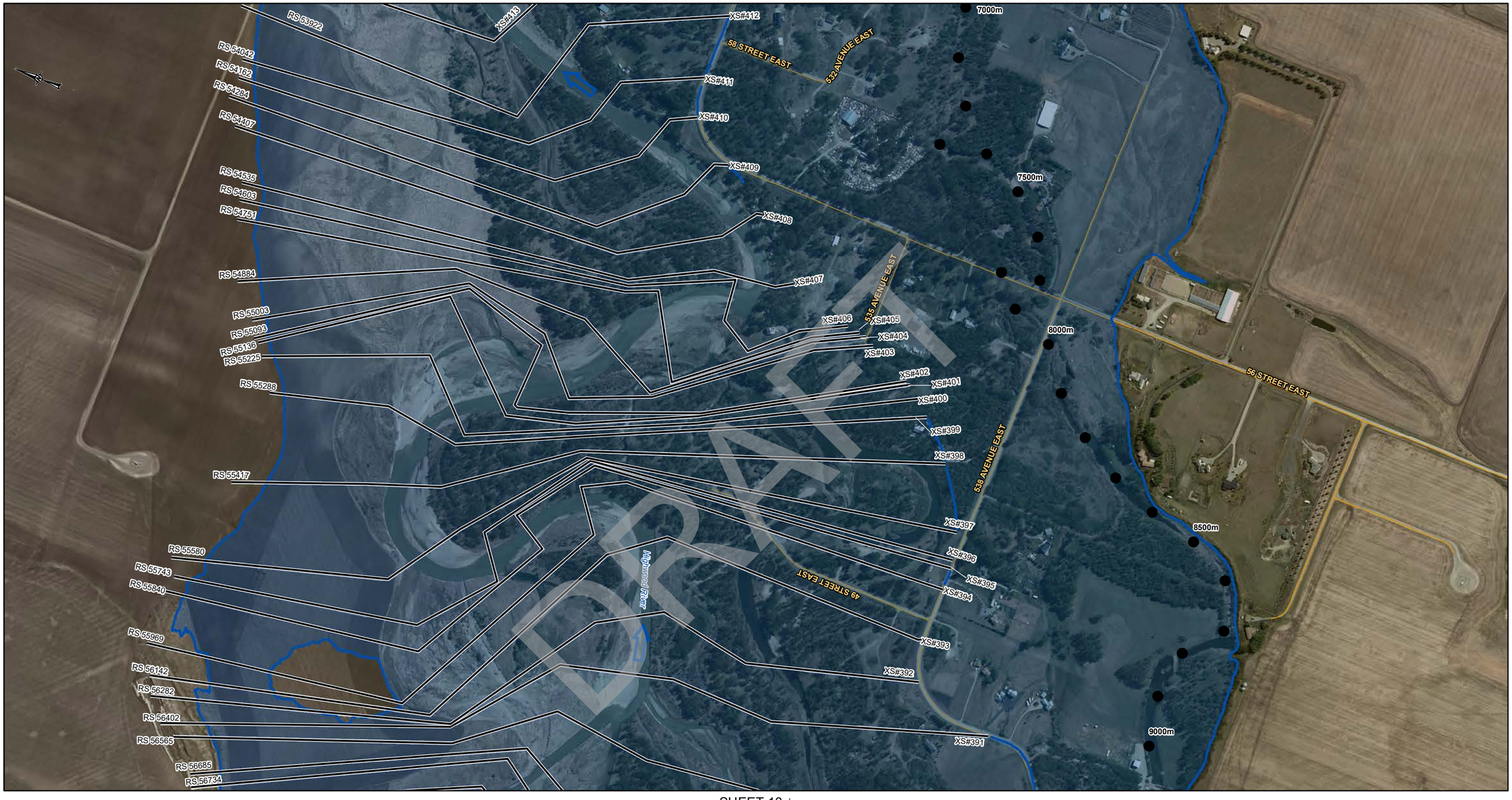
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Classification: Public

SHEET 15 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

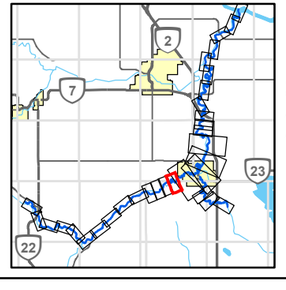
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S

SHEET 13 ↓



0 250 500

1:7500 METRES

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

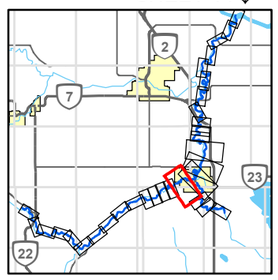
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S



0 250 500

1:15000 METRES

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DESIGNED	PT
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

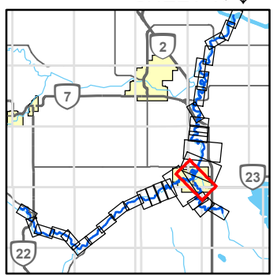
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 5330 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

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DESIGNED	PT
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

PATH: I:\CLIENT\GOV\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750yr-Inundation_Rev0.mxd

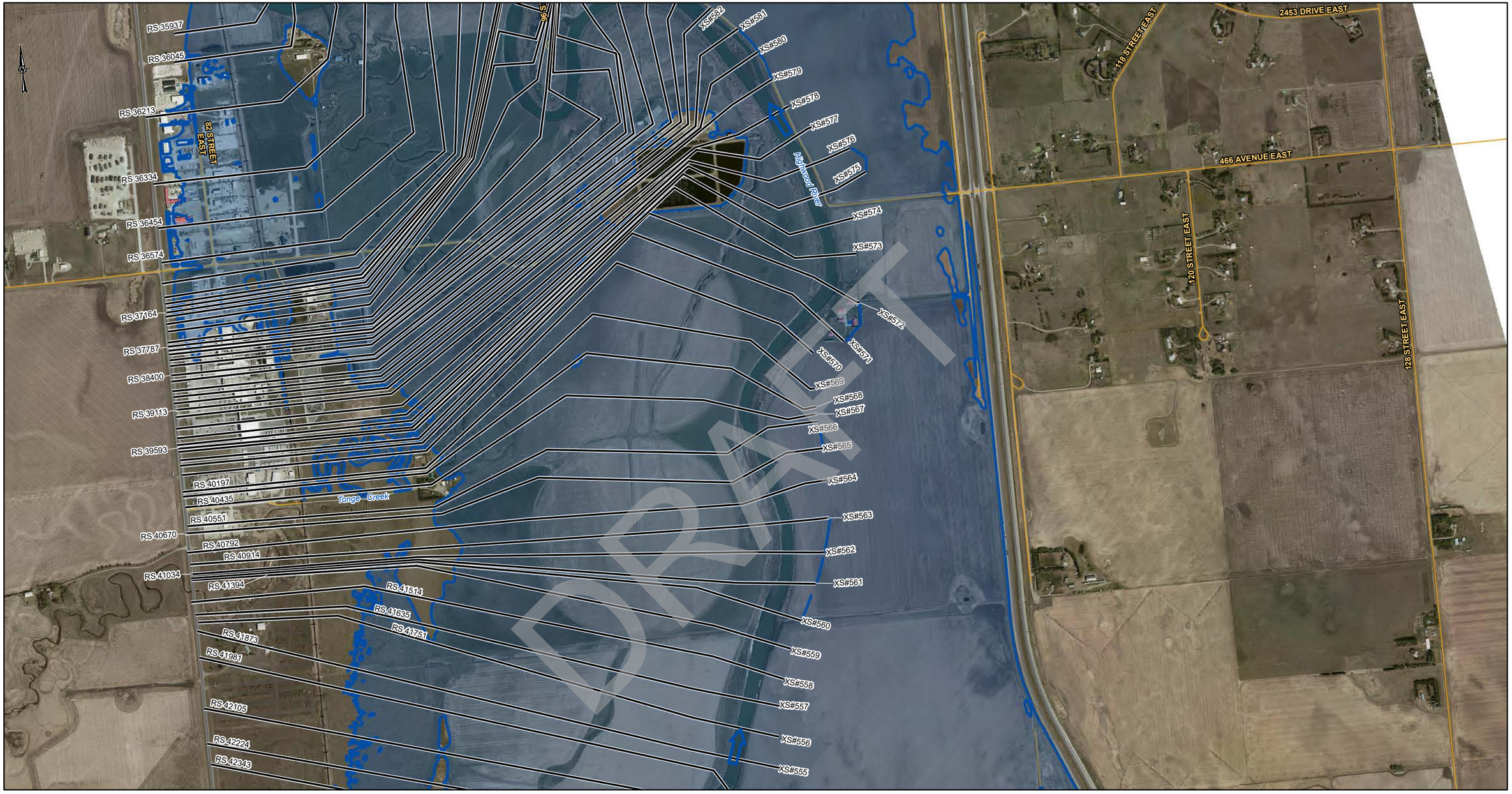
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SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

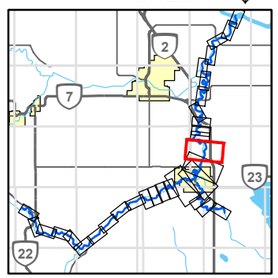
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

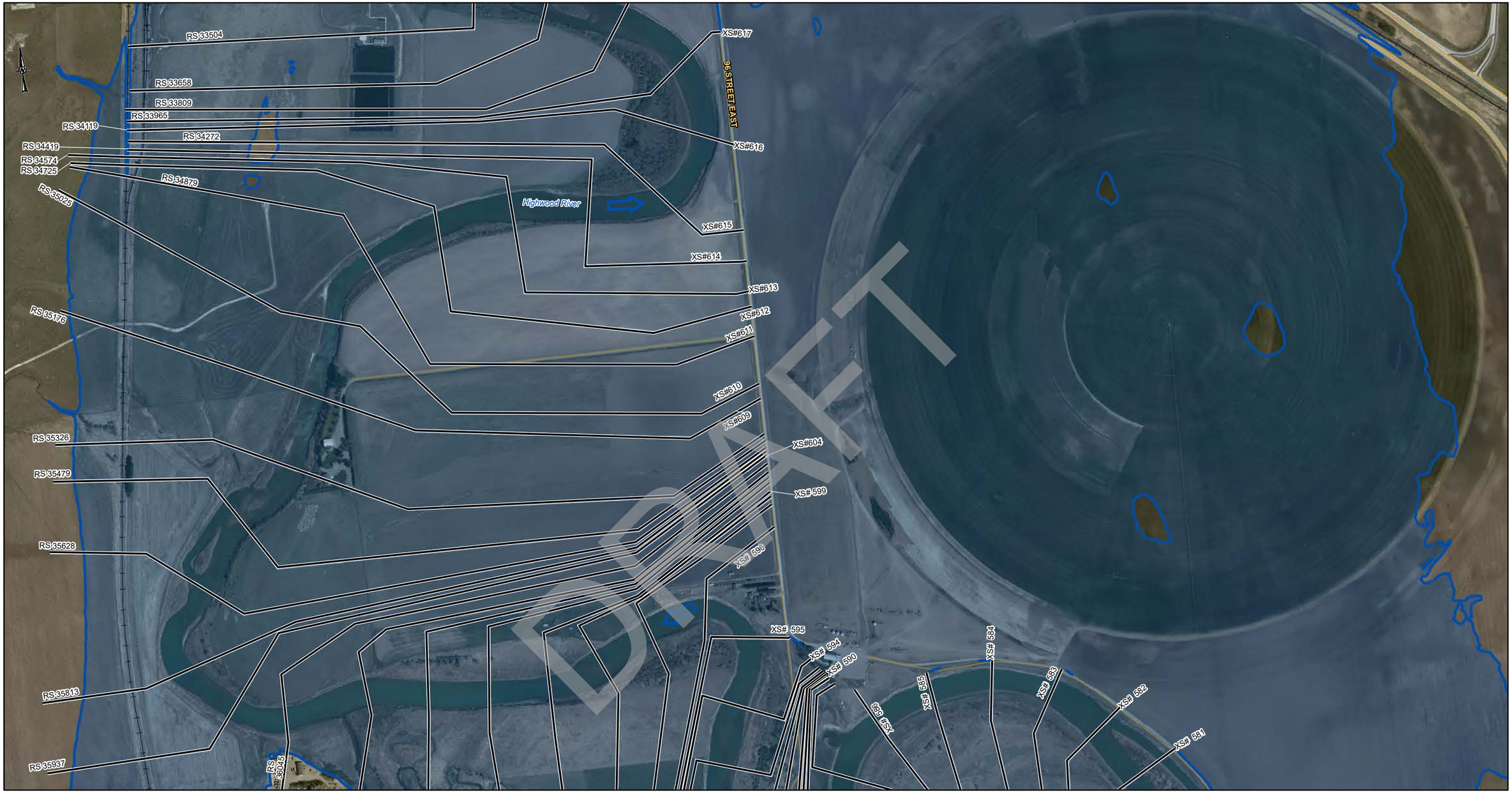
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B
25mm
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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576 Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

Classification: Public

SHEET 20 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

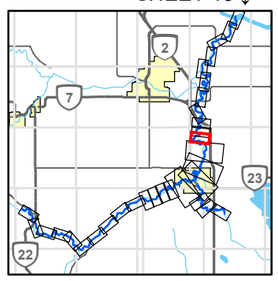
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

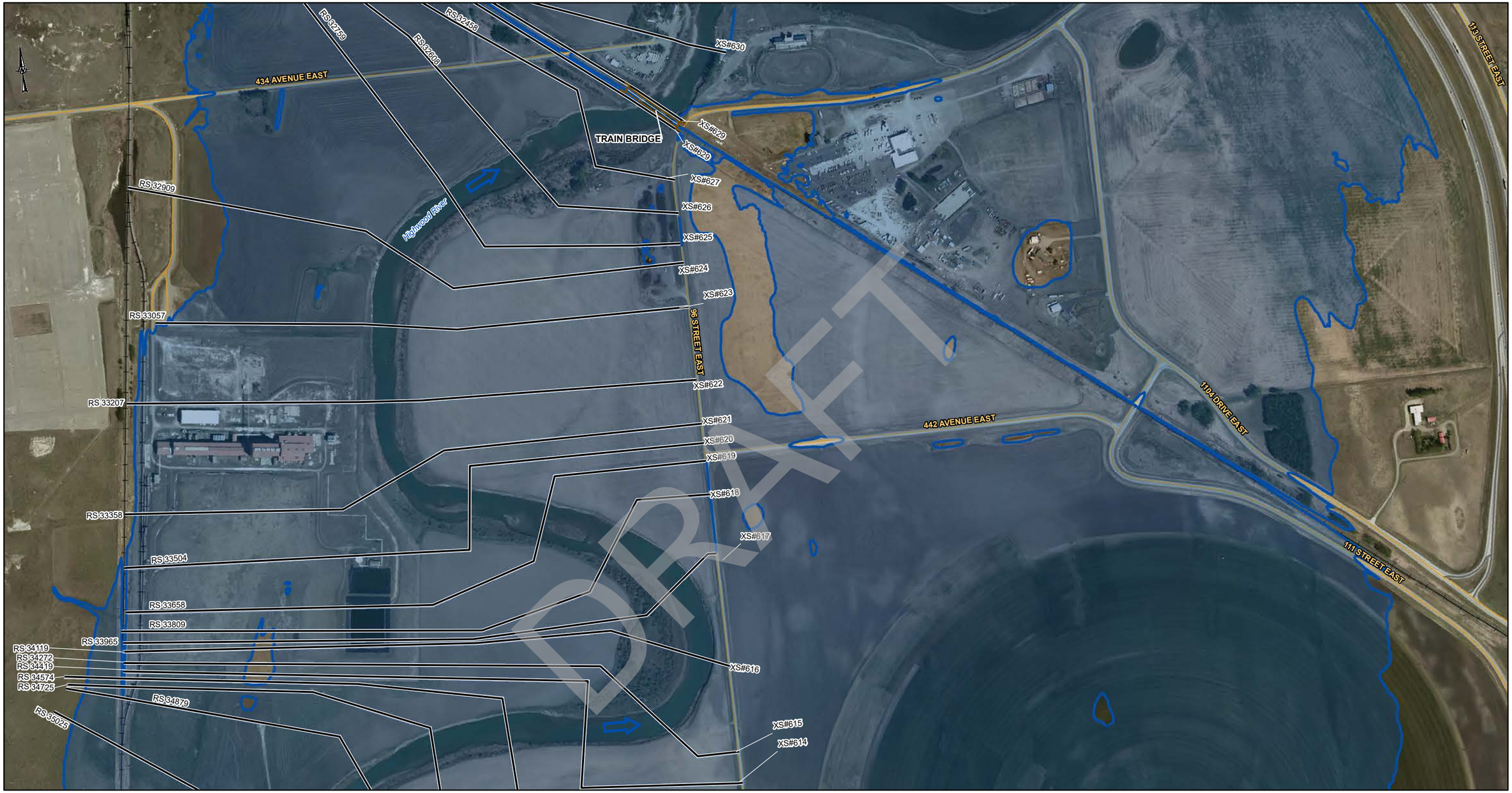
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Classification: Public

SHEET 21 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

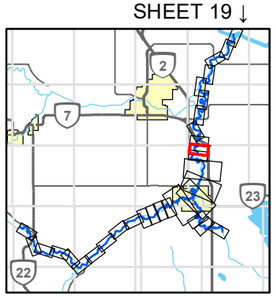
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

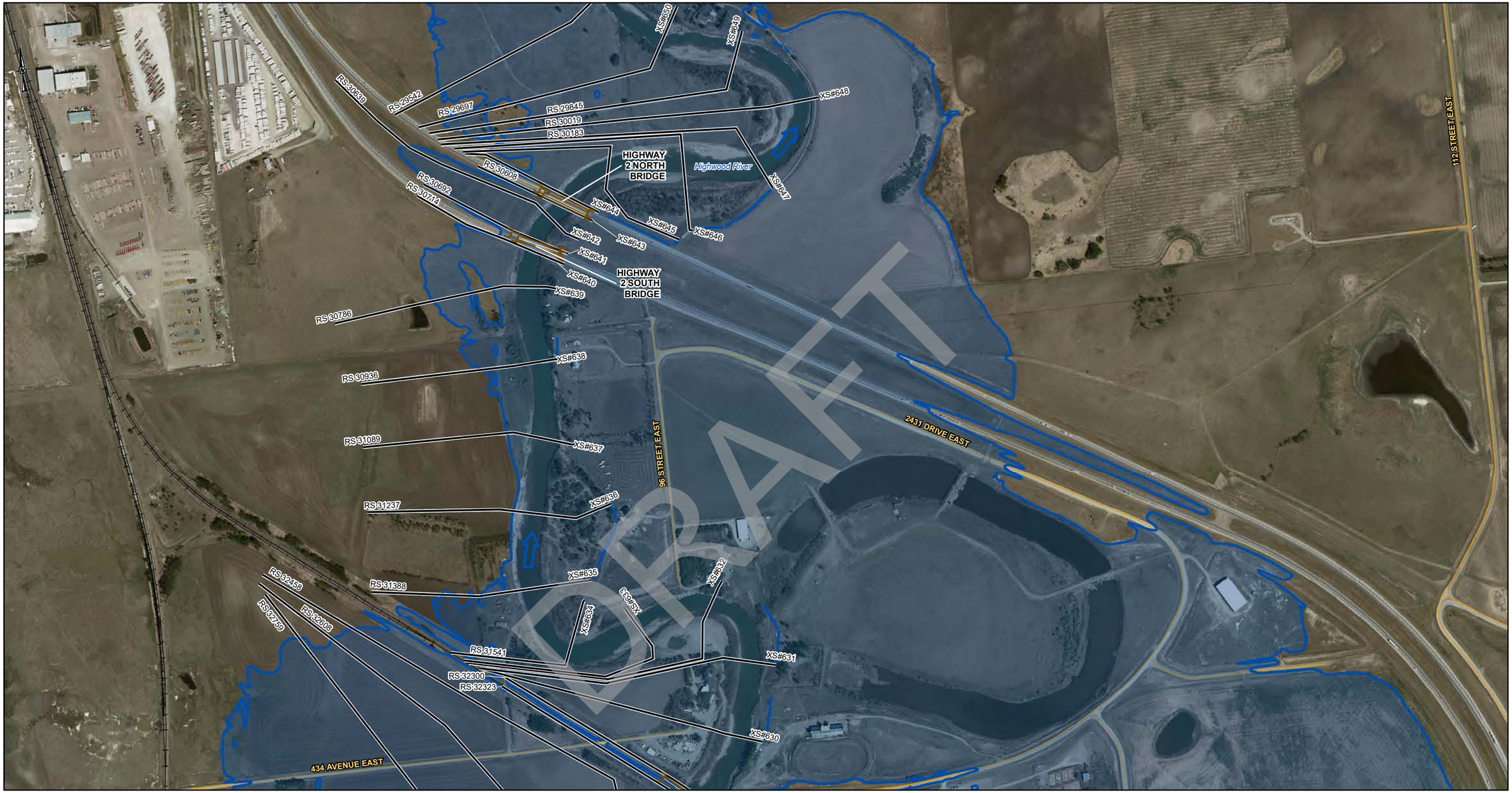
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

Classification: Public

SHEET 22 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

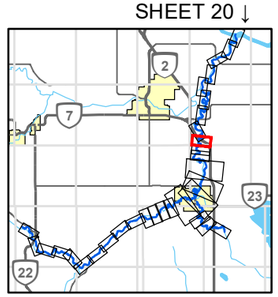
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 20 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

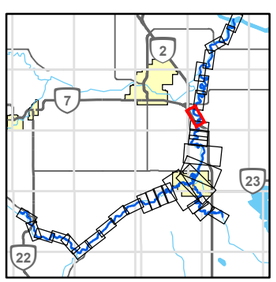
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

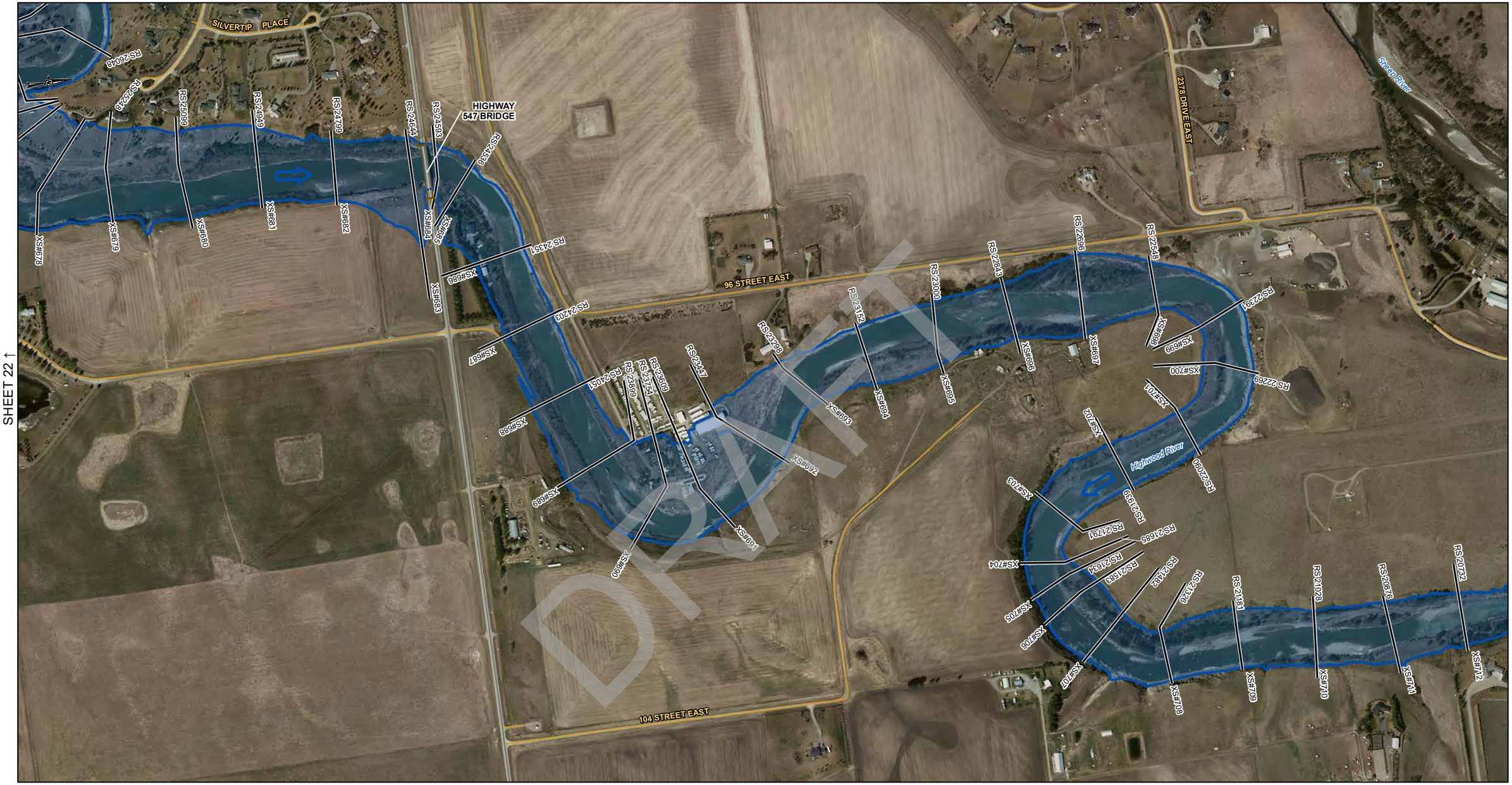
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Classification: Public

SHEET 22 ↑

SHEET 24 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

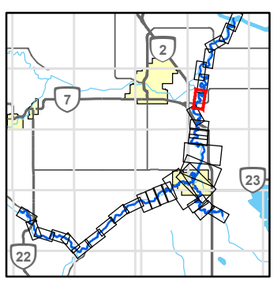
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

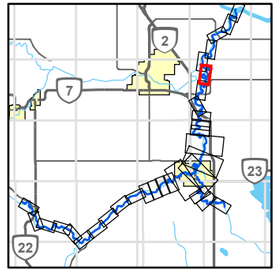
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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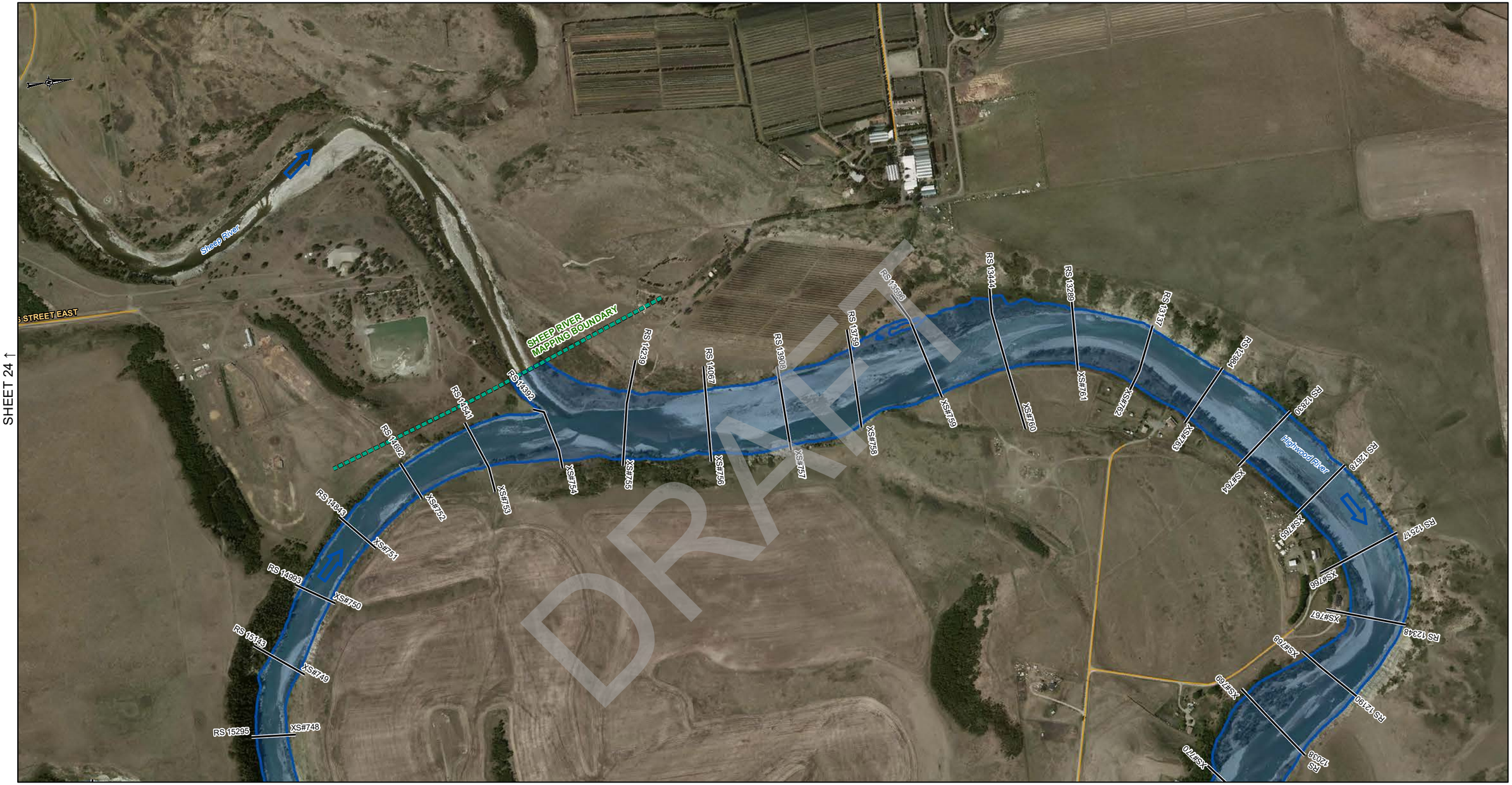
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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

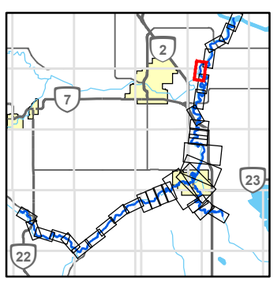
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5097 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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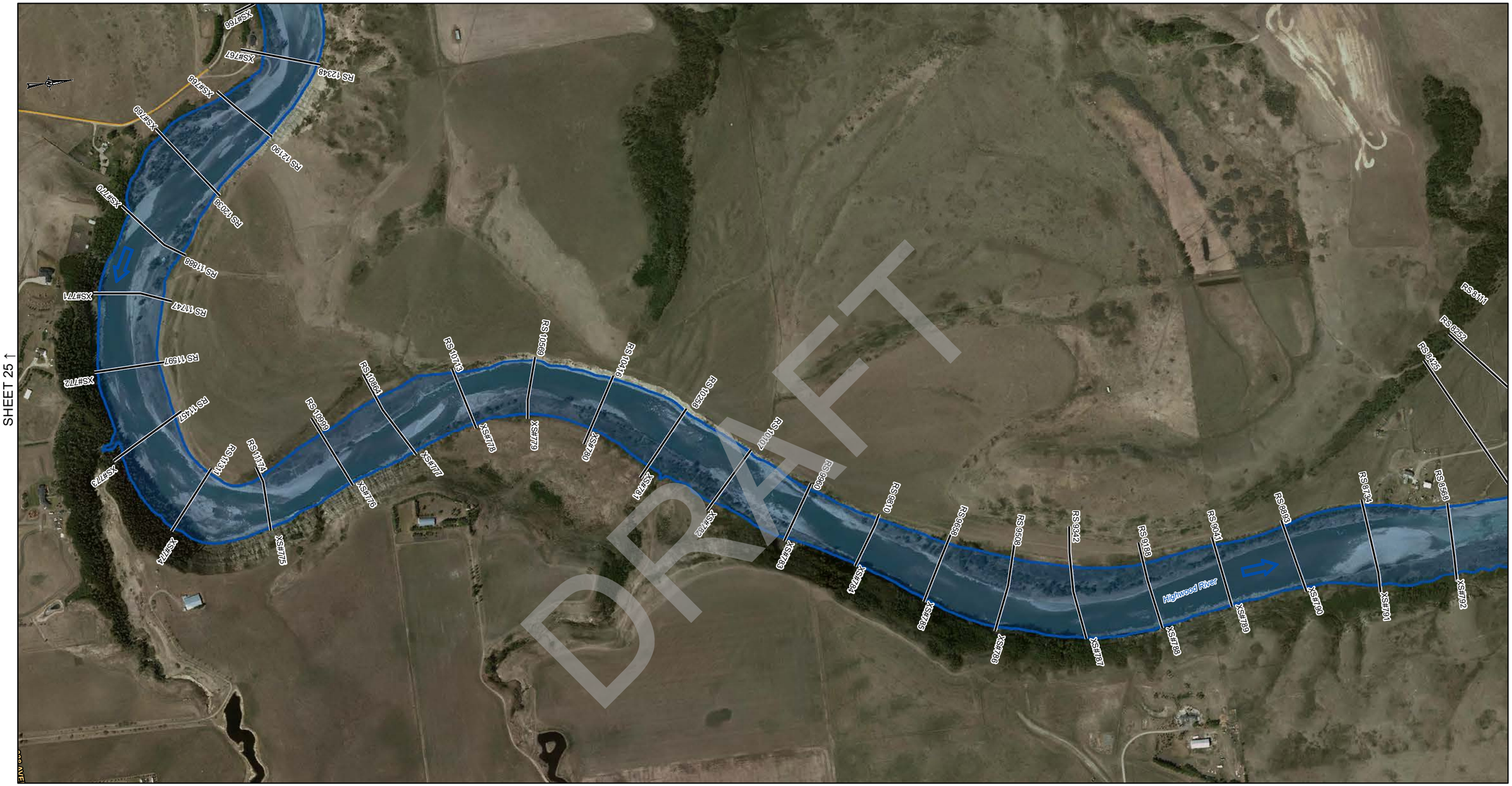
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Classification: Public

SHEET 25 ↑

SHEET 27 ↓

DRAFT



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

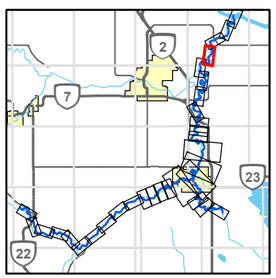
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5097 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0750y-Inundation_Rev0.mxd

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25mm
0

Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

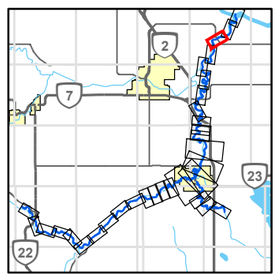
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5097 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

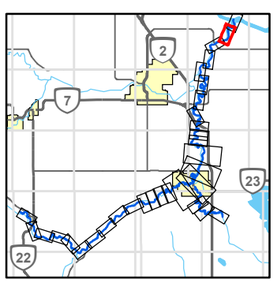
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5097 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

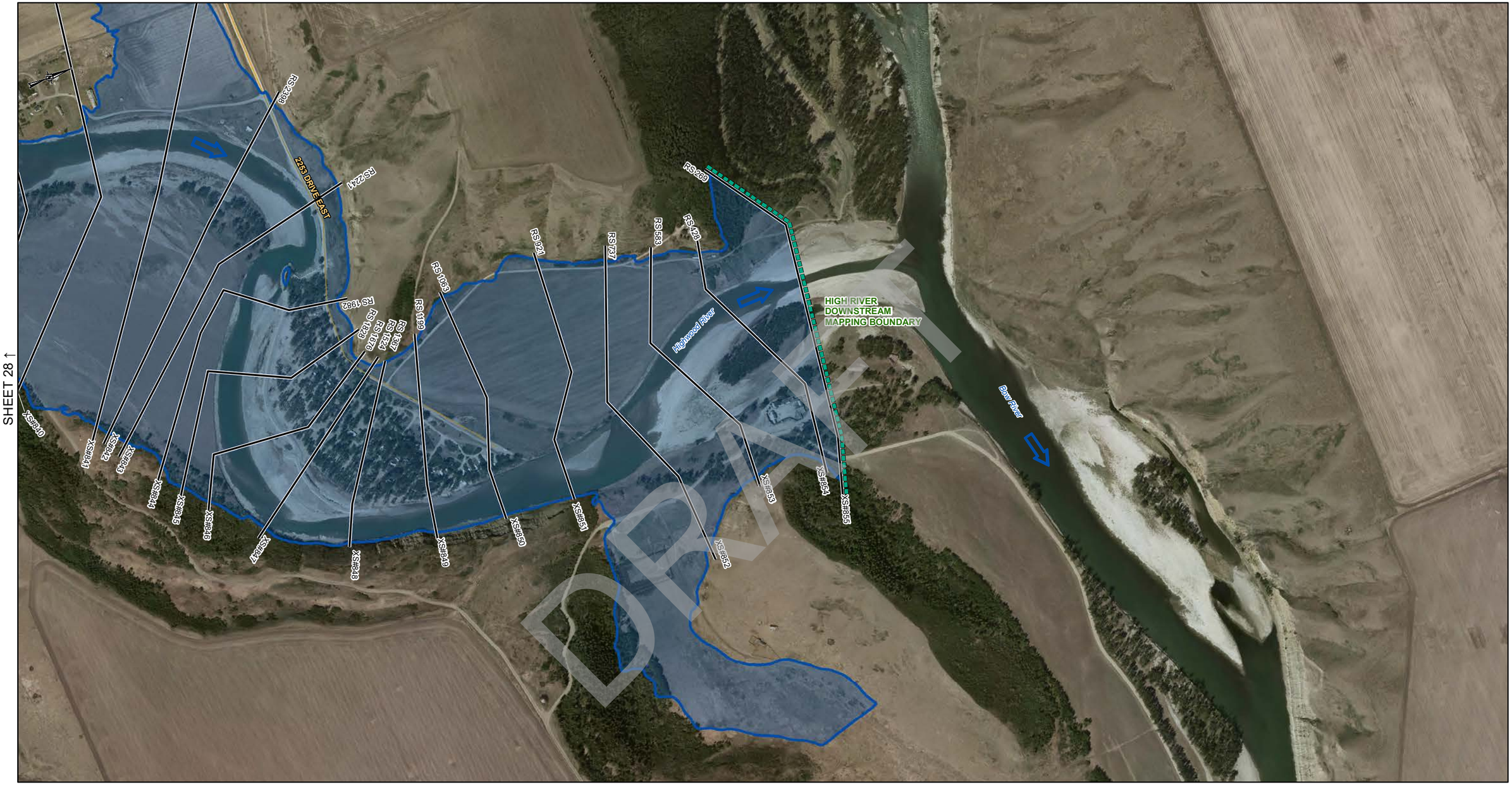
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Classification: Public

SHEET 28 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

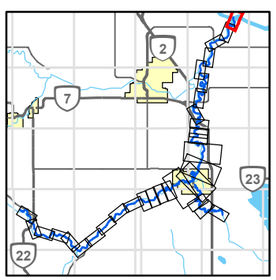
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5097 M^3/S



0 250 500
1:7500 METRES

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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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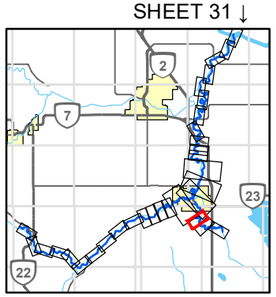
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SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2323 M^3/S

0 250 500
1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

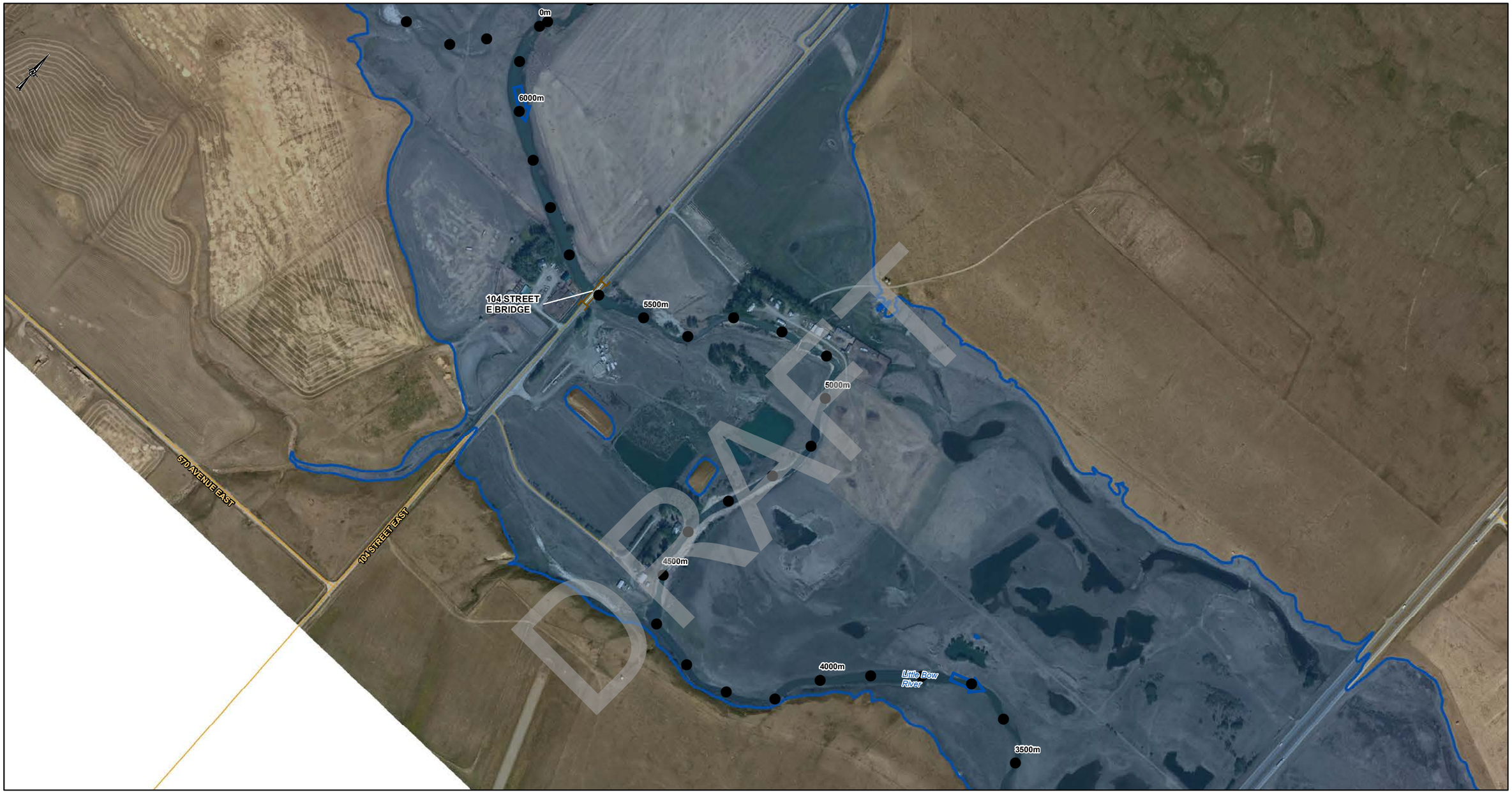
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SHEET 30 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

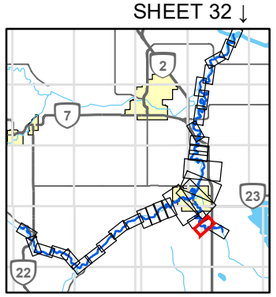
750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2323 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

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PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

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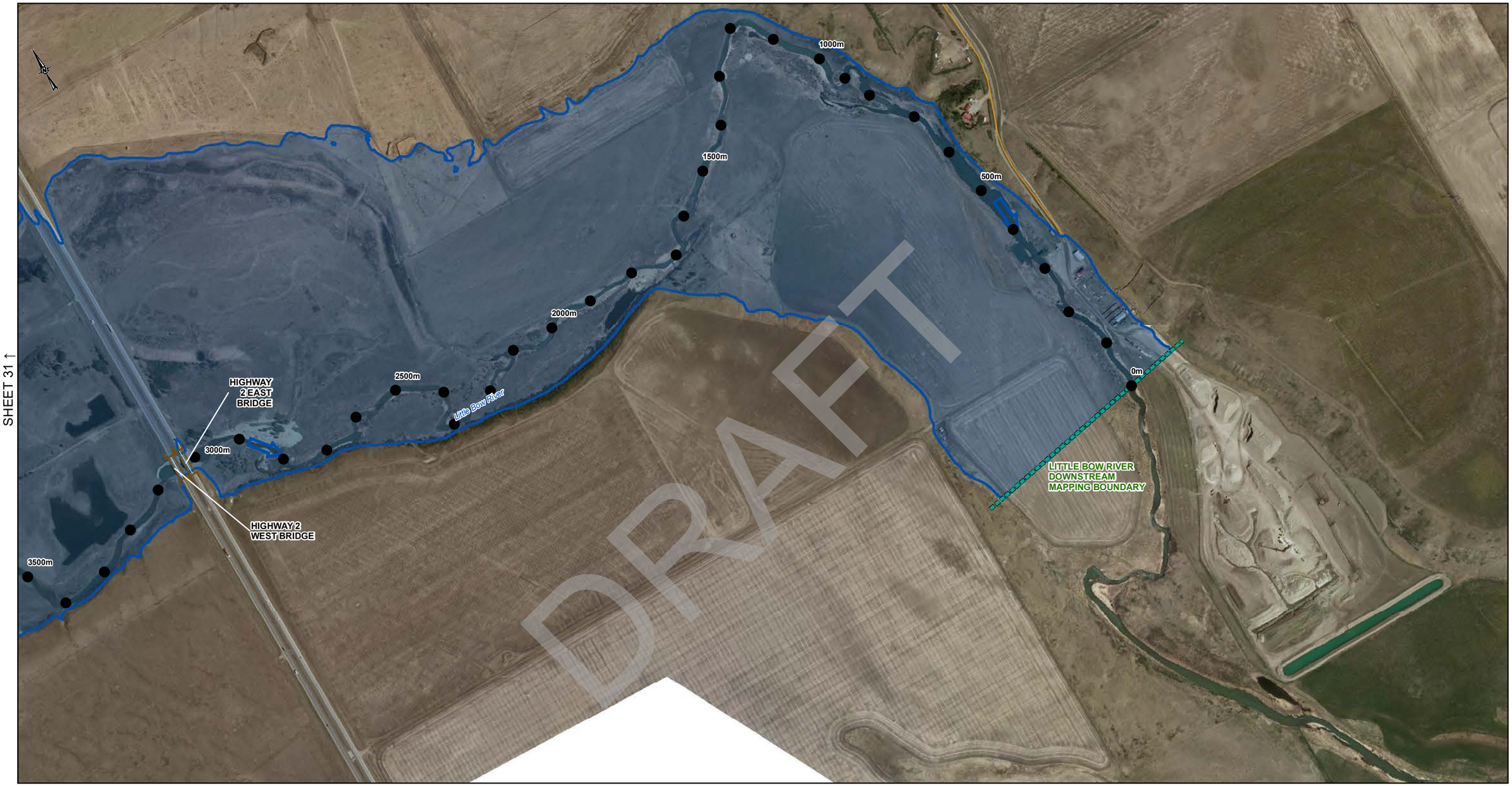
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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

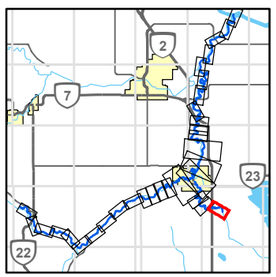
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2323 M^3/S



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

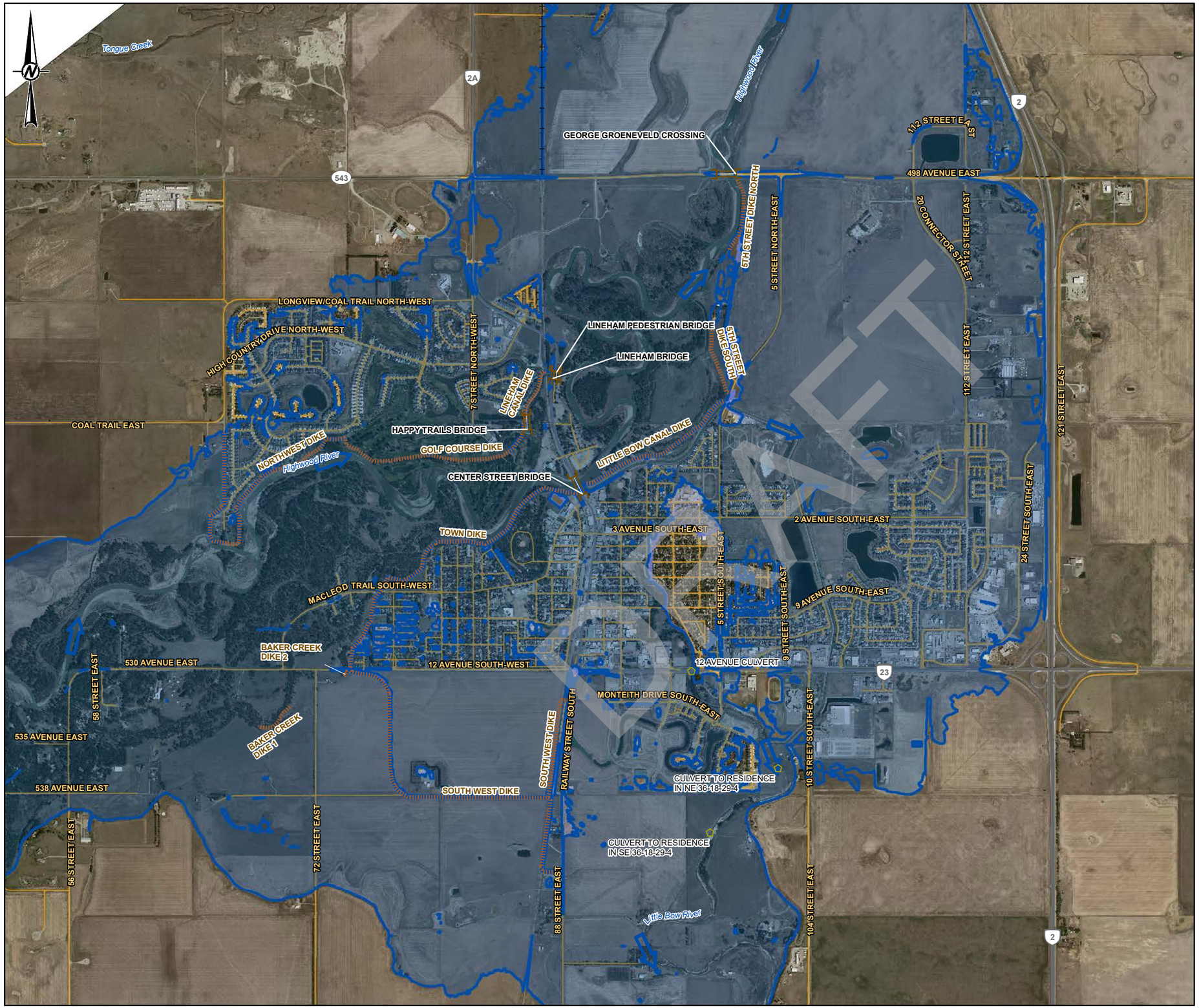
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25mm

0

Classification: Public



LEGEND

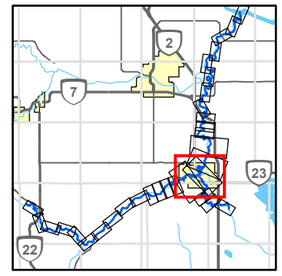
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
750 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0750y-Overflow_Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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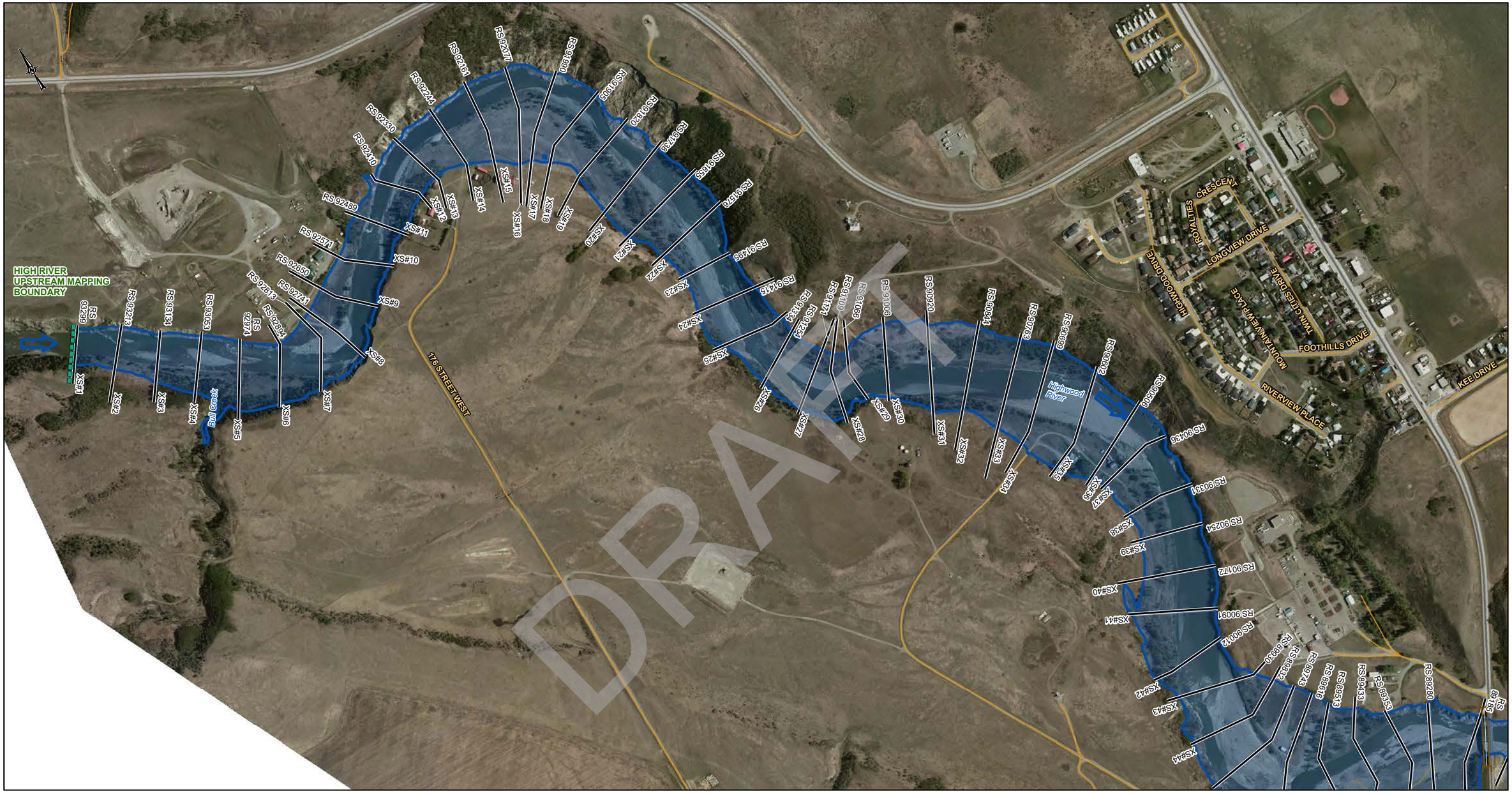
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Classification: Public

1000-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

DRAFT



SHEET 2 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

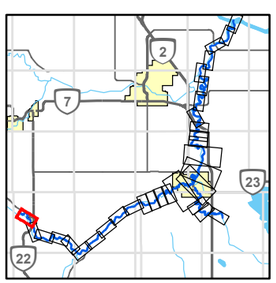
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

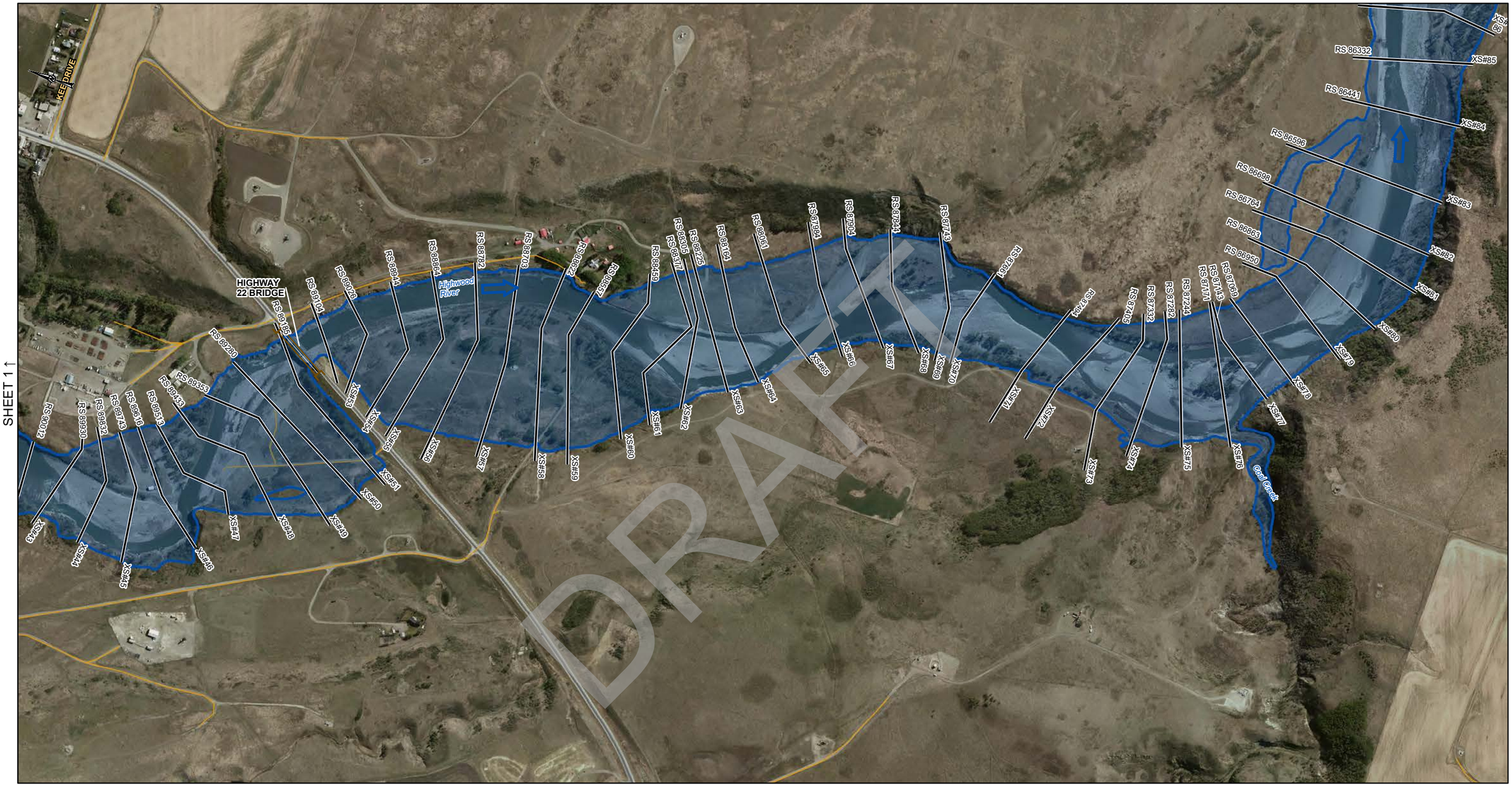
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25mm

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Classification: Public



DRAFT

SHEET 1 ↑

SHEET 3 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

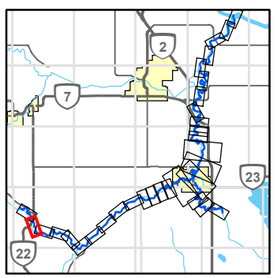
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 2 of 33

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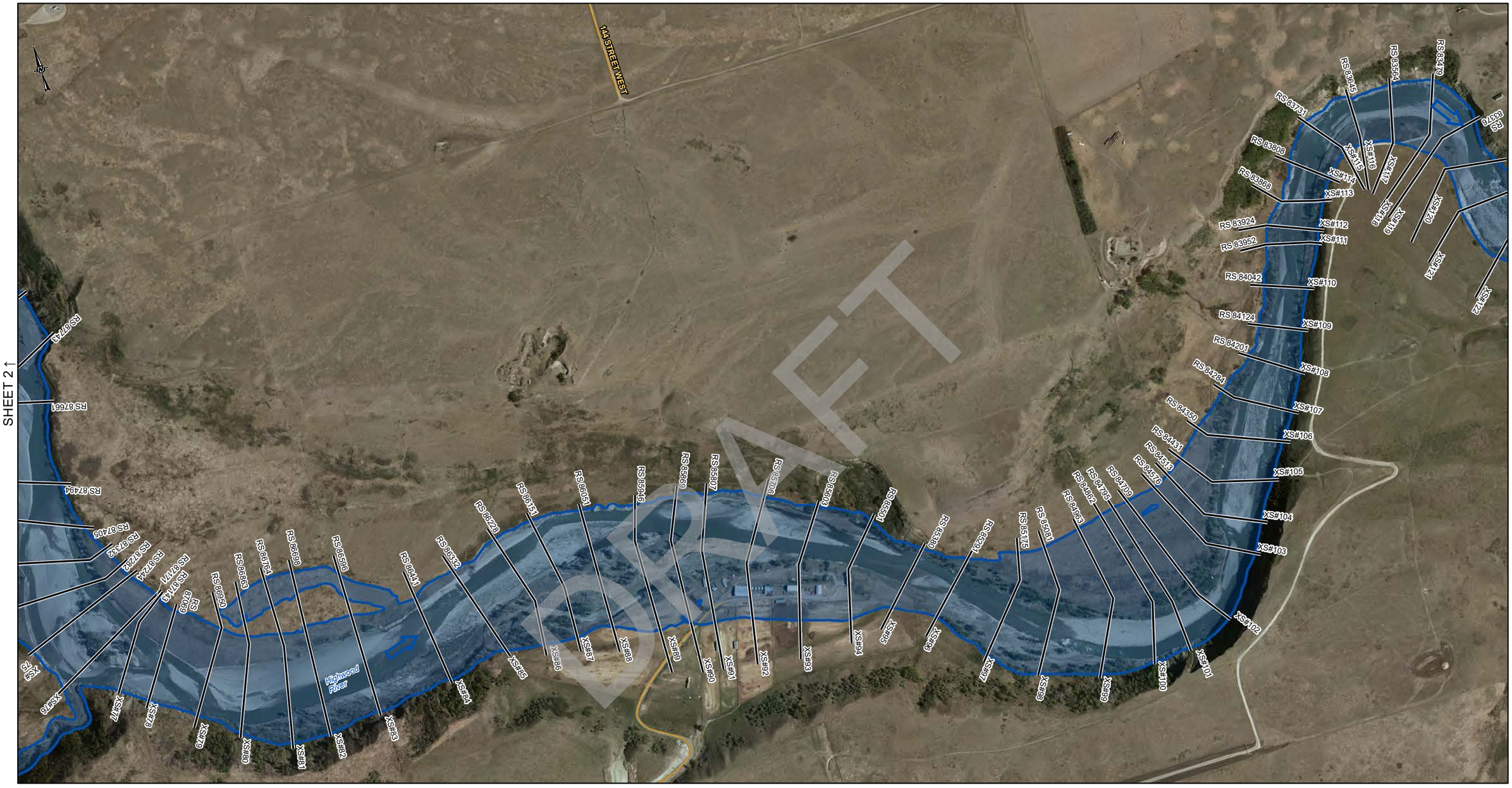
25mm

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

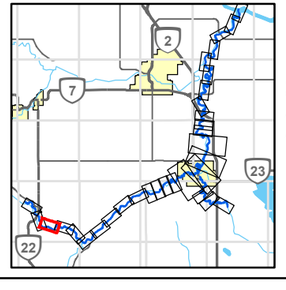
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

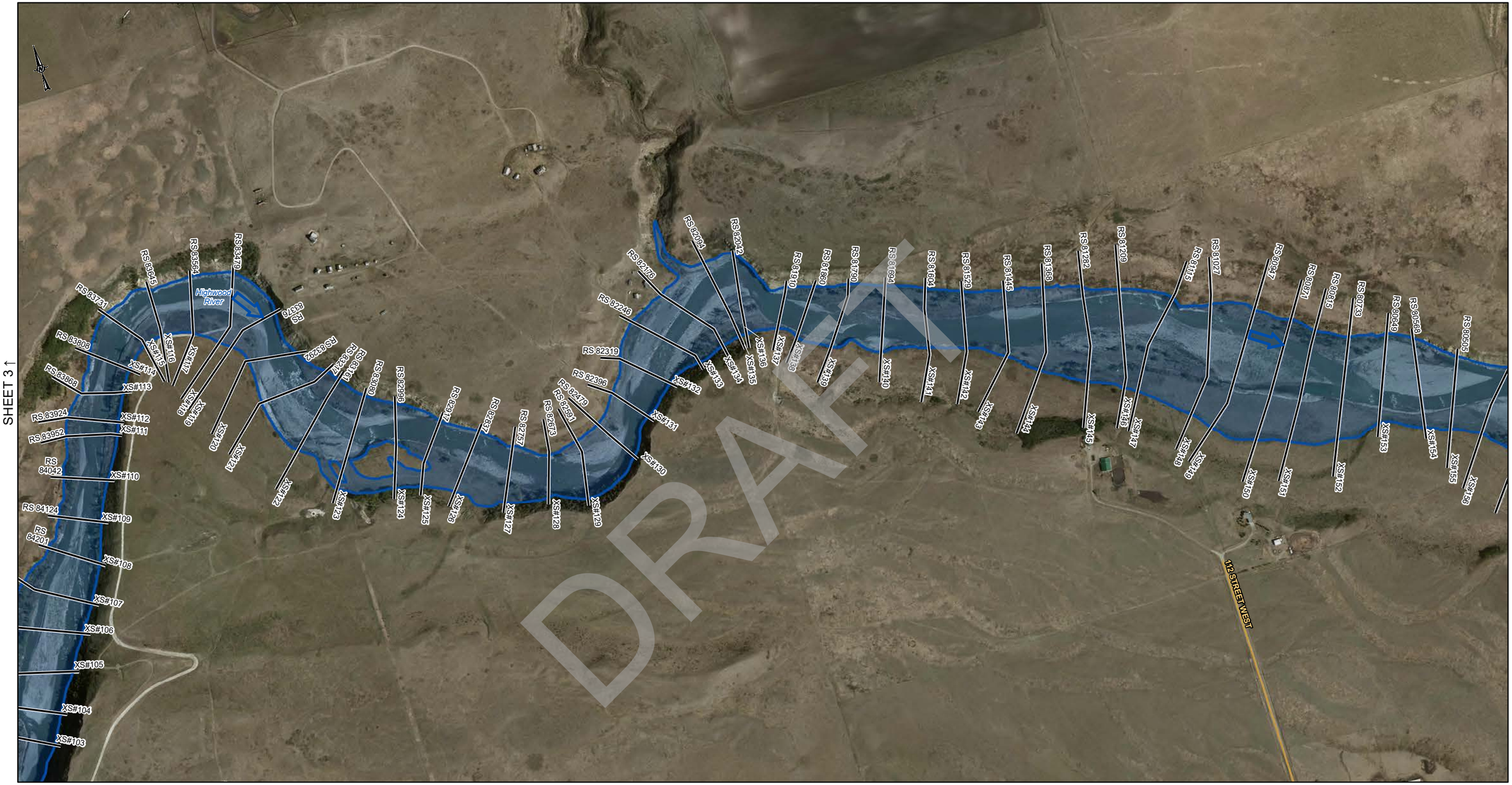
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 3 of 33

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25mm
0

Classification: Public

SHEET 3 ↑



SHEET 5 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

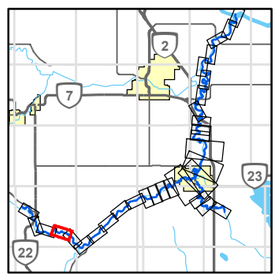
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S



0 250 500

1:7500 METRES

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CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 4 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

Classification: Public



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

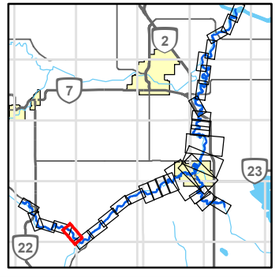
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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MEMBER OF WSP

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DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 5 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21462576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

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25mm

0

Classification: Public

SHEET 5 ↑

SHEET 7 ↓

DRAFT

Stimson Creek

Highwood River

XS#184 XS#185 XS#186 XS#187 XS#188 XS#189 XS#190 XS#192 XS#193 XS#194 XS#195 XS#196 XS#197 XS#198 XS#199 XS#200 XS#201 XS#202 XS#203 XS#204 XS#205 XS#206 XS#207 XS#208 XS#209 XS#210 XS#211 XS#212 XS#213 XS#214 XS#215 XS#216 XS#217 XS#218

RS78229 RS78142 RS78050 RS77962 RS77902 RS77821 RS77741 RS77660 RS77590 RS77529 RS77420 RS77344 RS77290 RS77168 RS77091 RS76991 RS76942 RS76669 RS76542 RS76418 RS76237 RS76119 RS76000 RS75982 RS75894 RS75863 RS75521 RS75416 RS75355 RS75109 RS74955 RS74874 RS74632 RS74559 RS74512

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

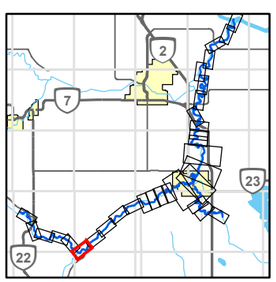
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 3830 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 6 of 33

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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

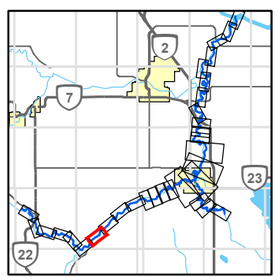
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 7 of 33

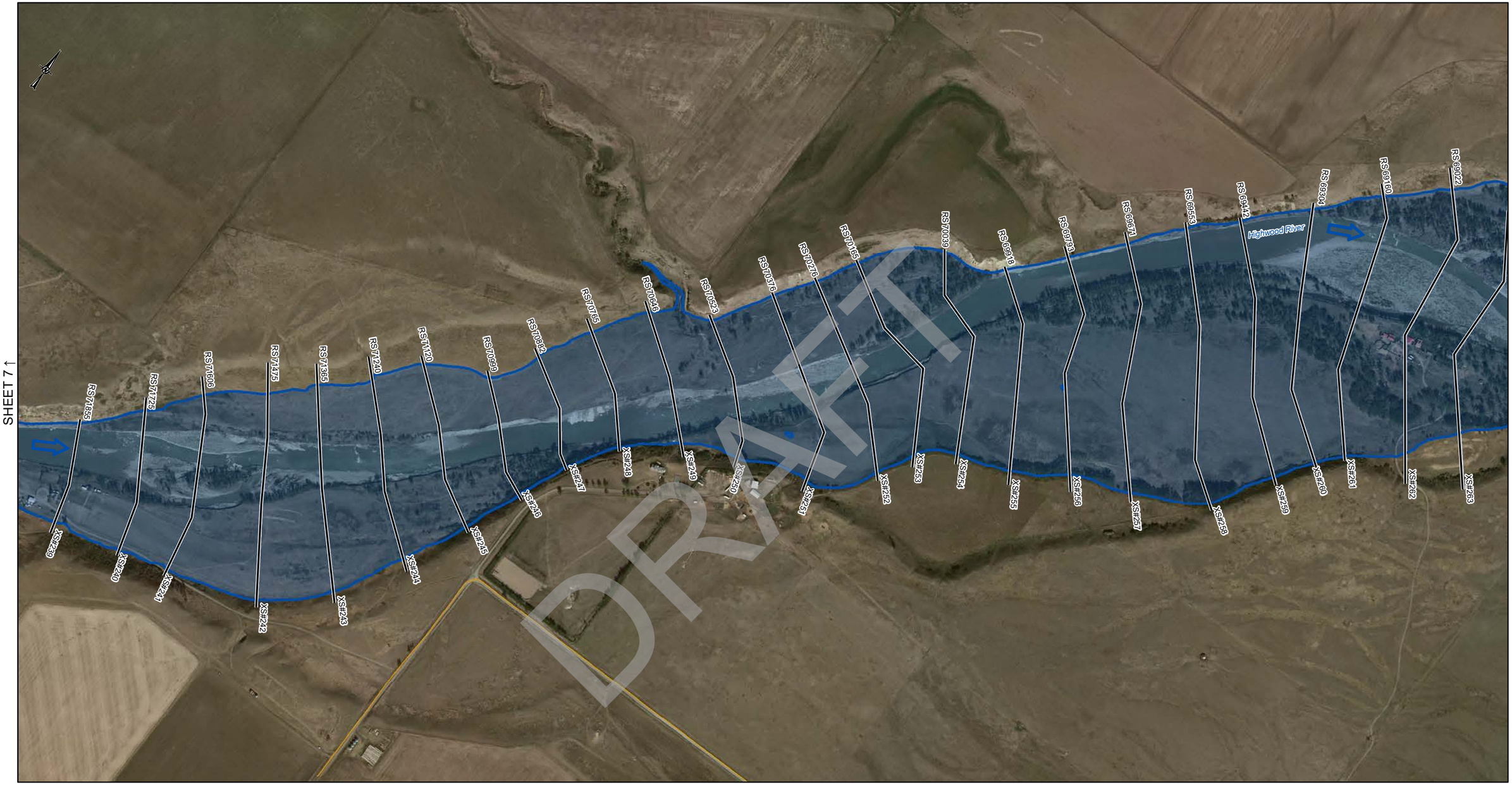
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Classification: Public



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

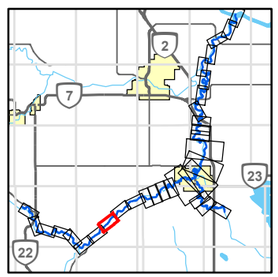
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 8 of 33

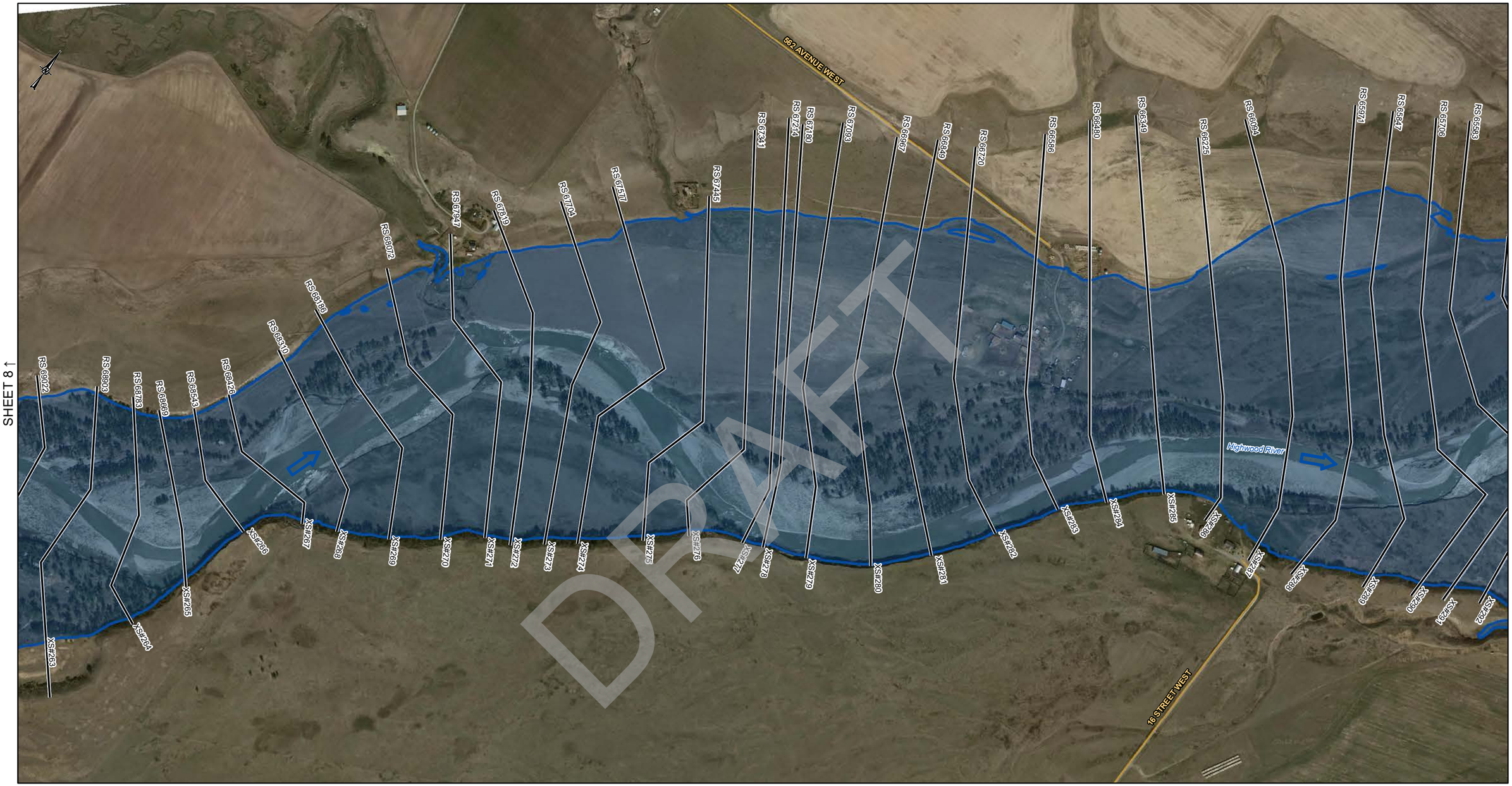
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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

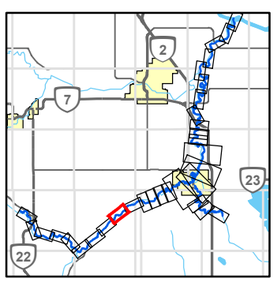
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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REVIEWED	JC
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 9 of 33

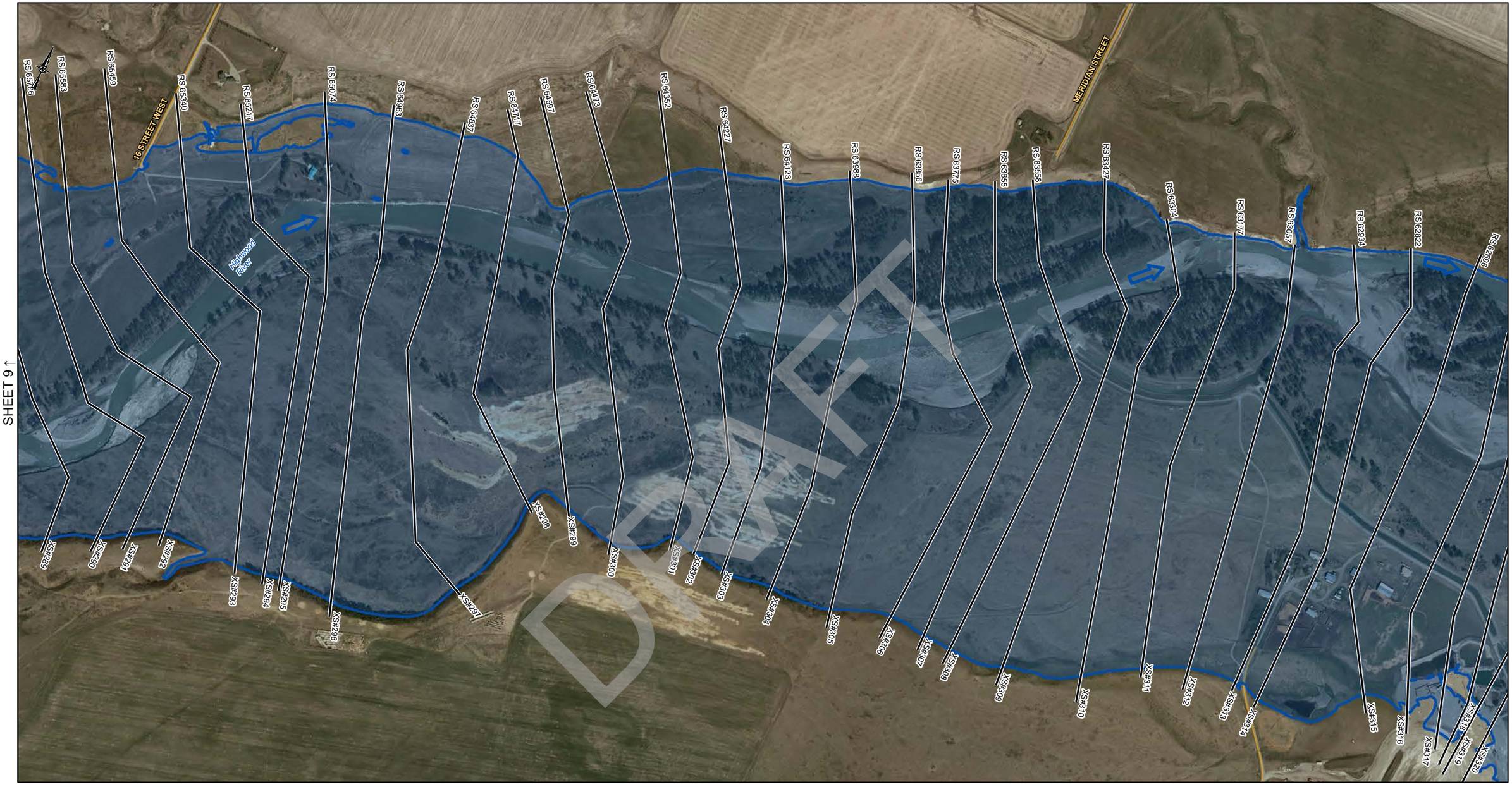
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Classification: Public

SHEET 9 ↑

SHEET 11 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

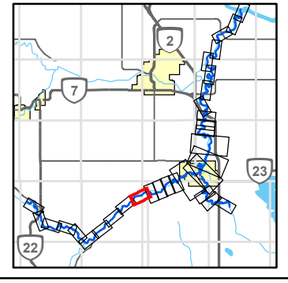
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

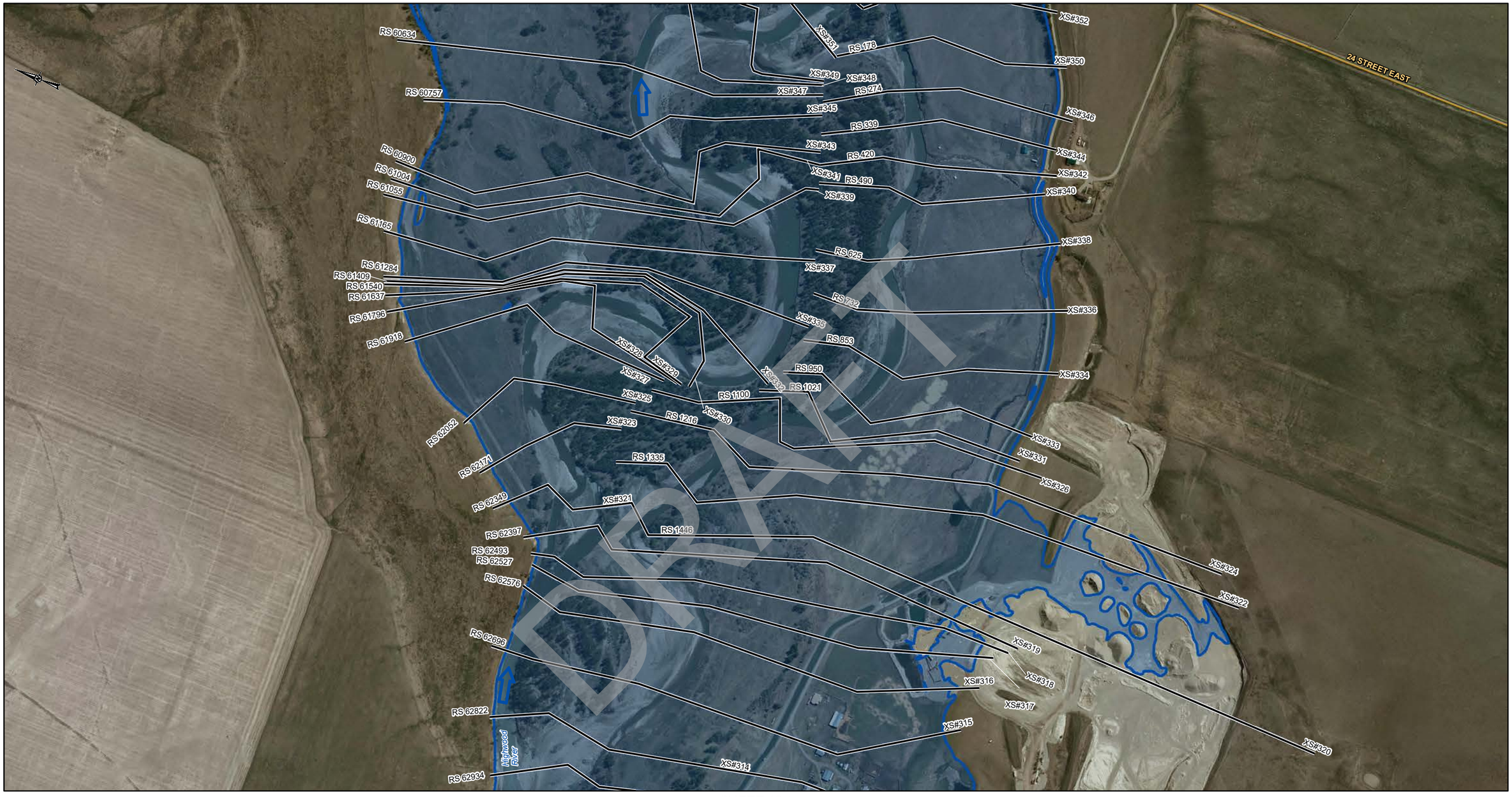
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 10 of 33

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public

SHEET 12 ↑



SHEET 10 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

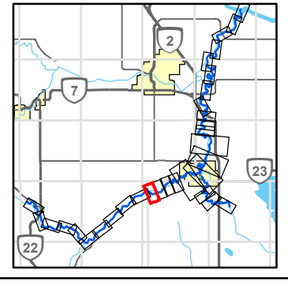
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SPLIT POINT = 2280 M^3/S
HIGHWOOD RIVER SIDE CHANNEL = 3880 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 11 of 33

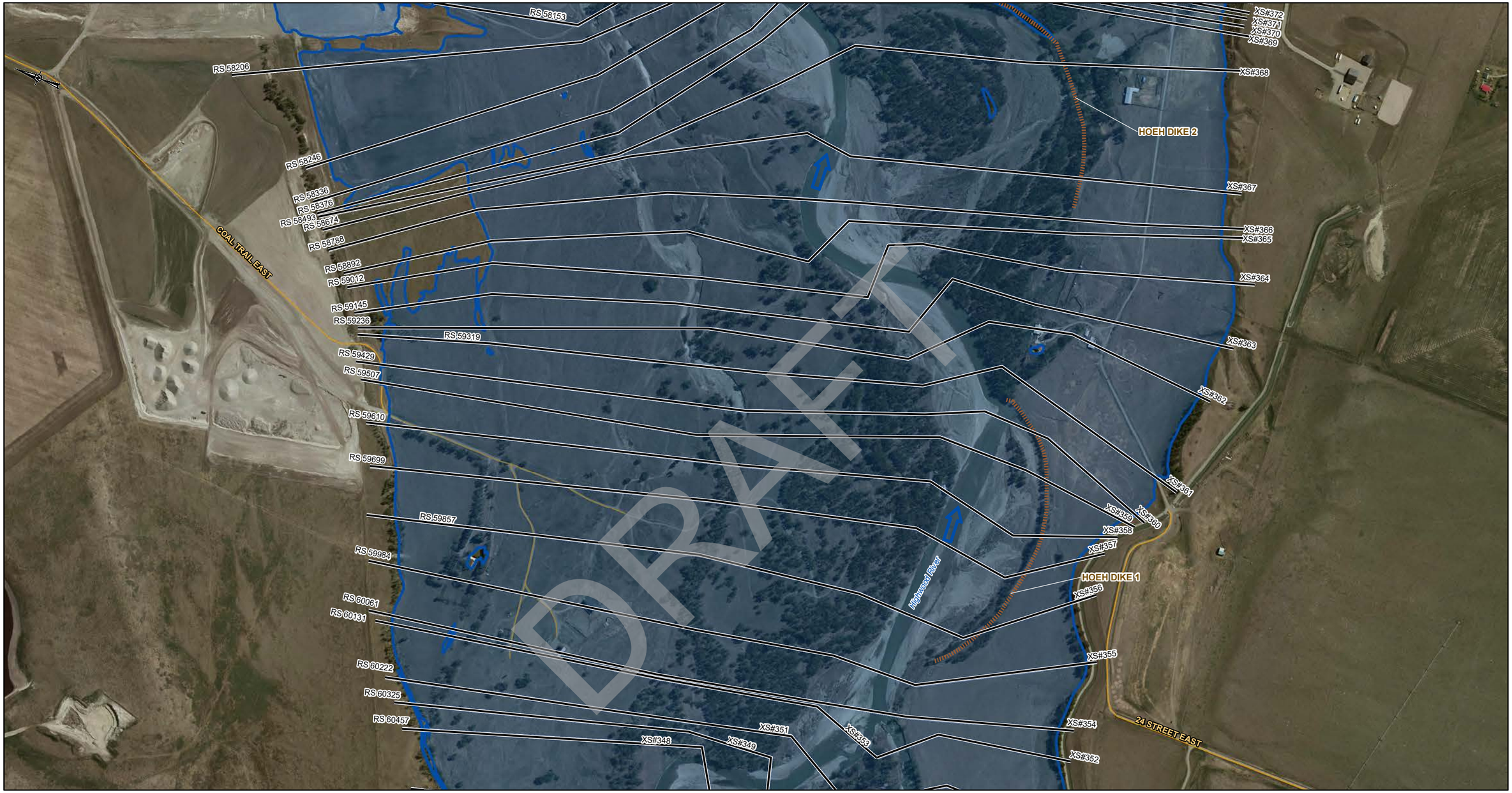
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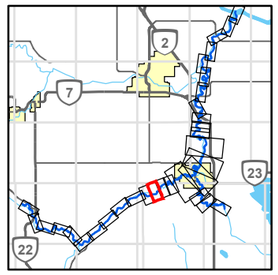
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Classification: Public

SHEET 13 ↑



SHEET 11 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S

0 250 500

1:7500 METRES

REFERENCE(S)

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 12 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 14 ↑



SHEET 12 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

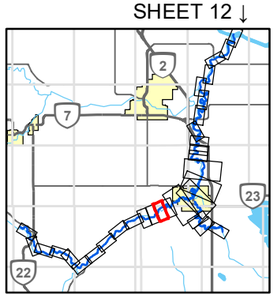
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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DESIGNED	PT
PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 13 of 33

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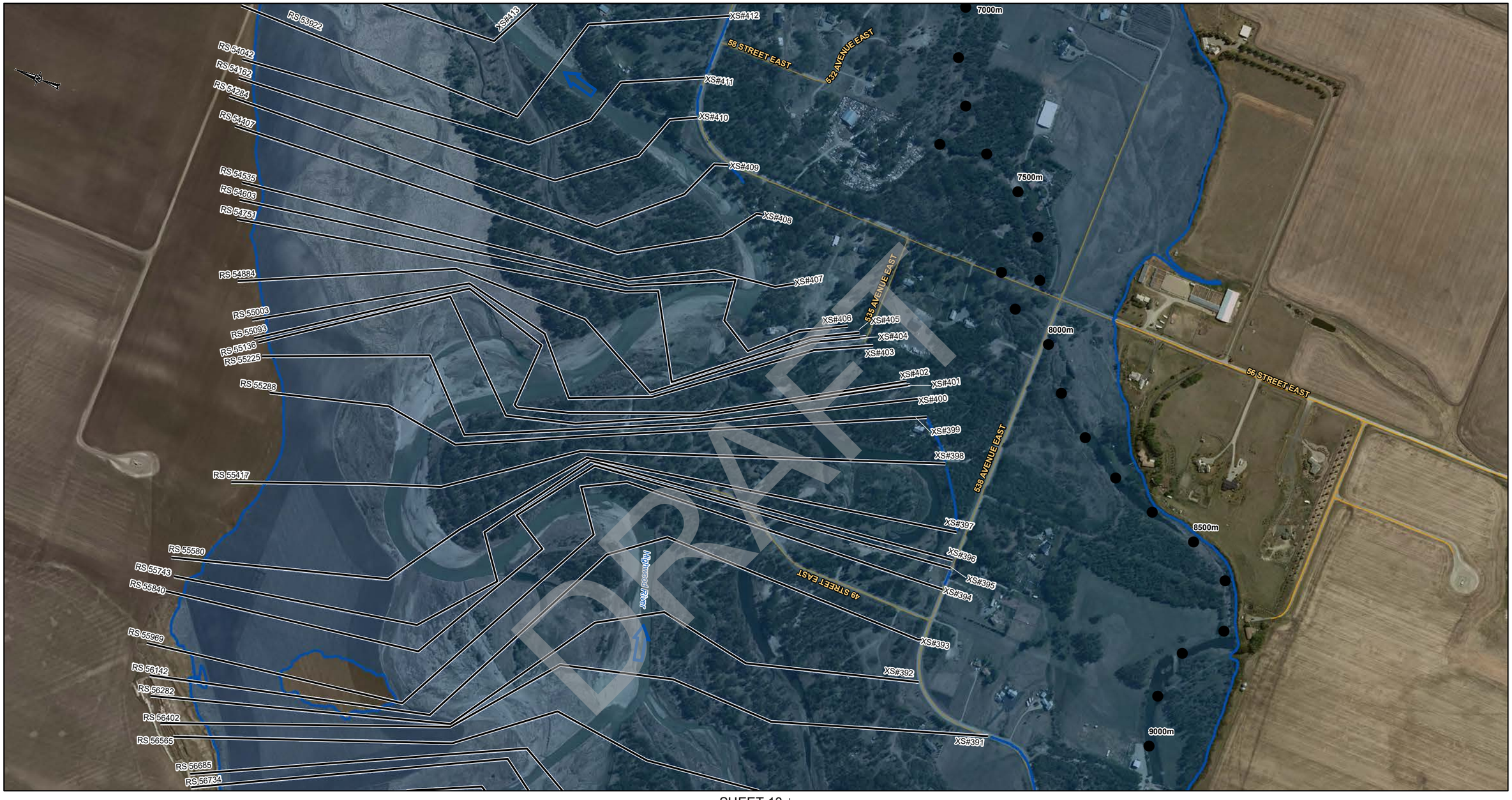
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25mm

0

Classification: Public

SHEET 15 ↑



SHEET 13 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

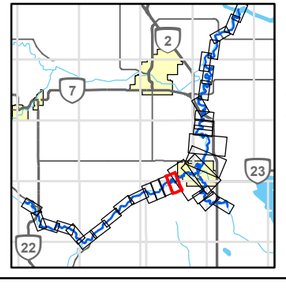
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 14 of 33

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0 25mm

Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

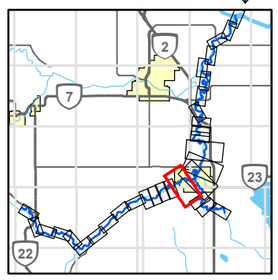
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



0 250 500

1:15000 METRES

REFERENCE(S)

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 15 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

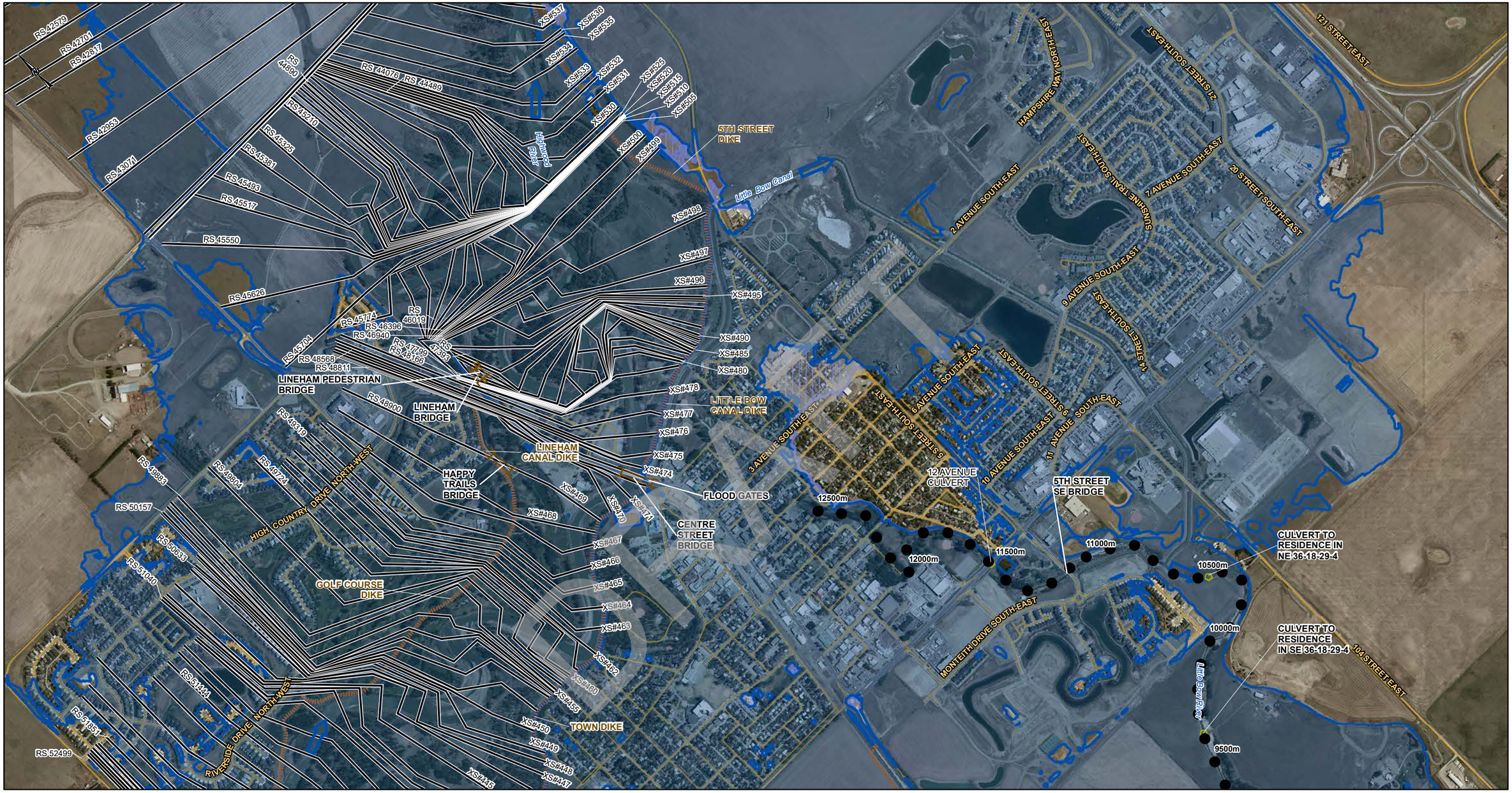
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Classification: Public

SHEET 17 ↑



SHEET 30 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

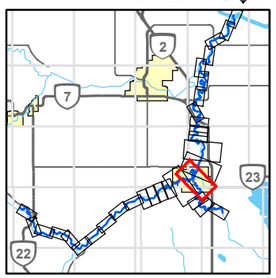
1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S

SHEET 15 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 16 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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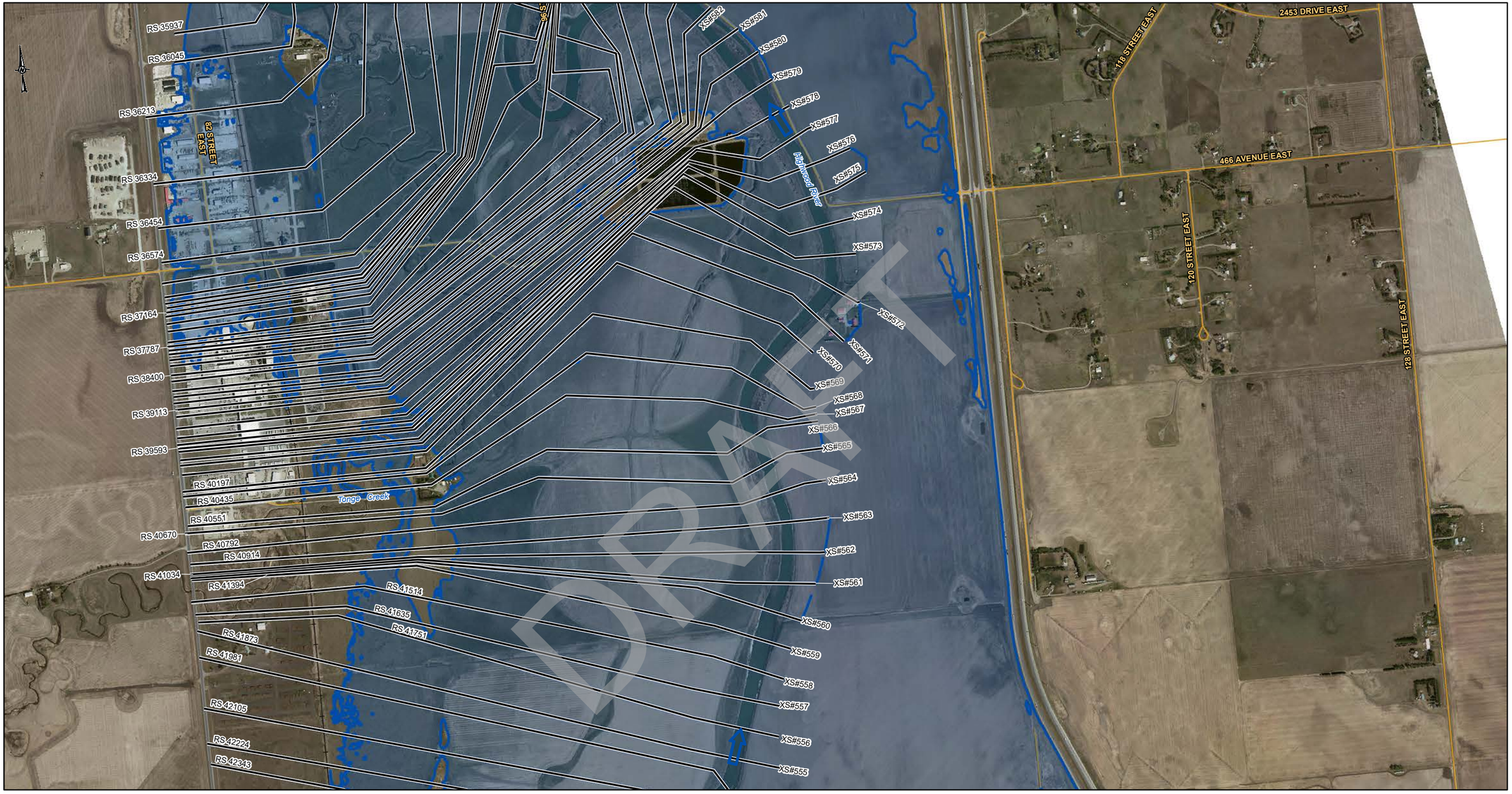
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Classification: Public

SHEET 18 ↑


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SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

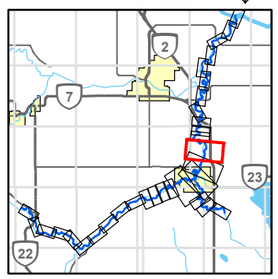
1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S

SHEET 17 ↓



0 250 500
1:15000 METRES

REFERENCE(S)

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IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

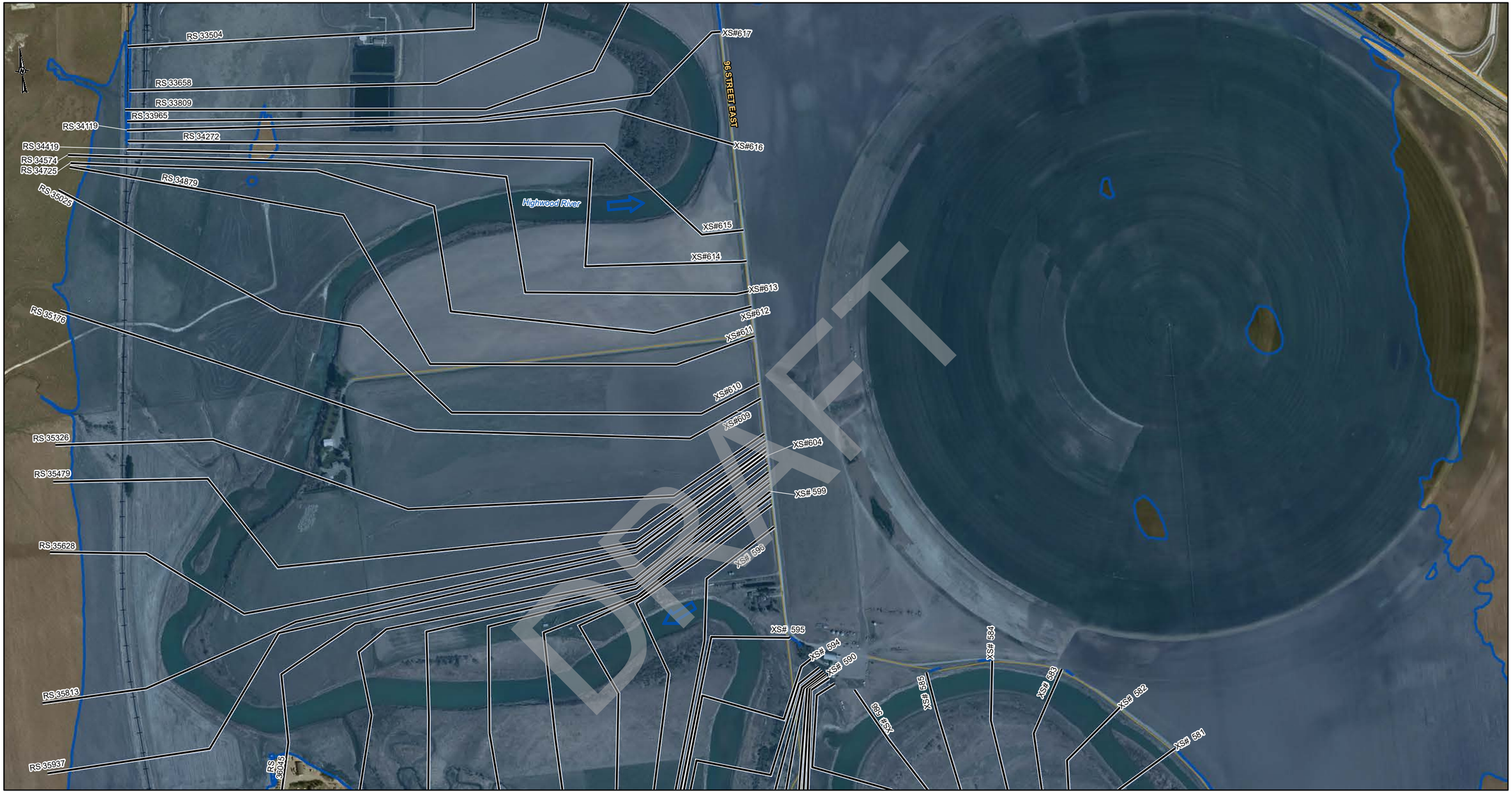
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 18 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B
25mm
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576 Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

Classification: Public

SHEET 20 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

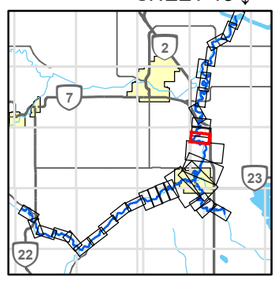
1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 19 of 33

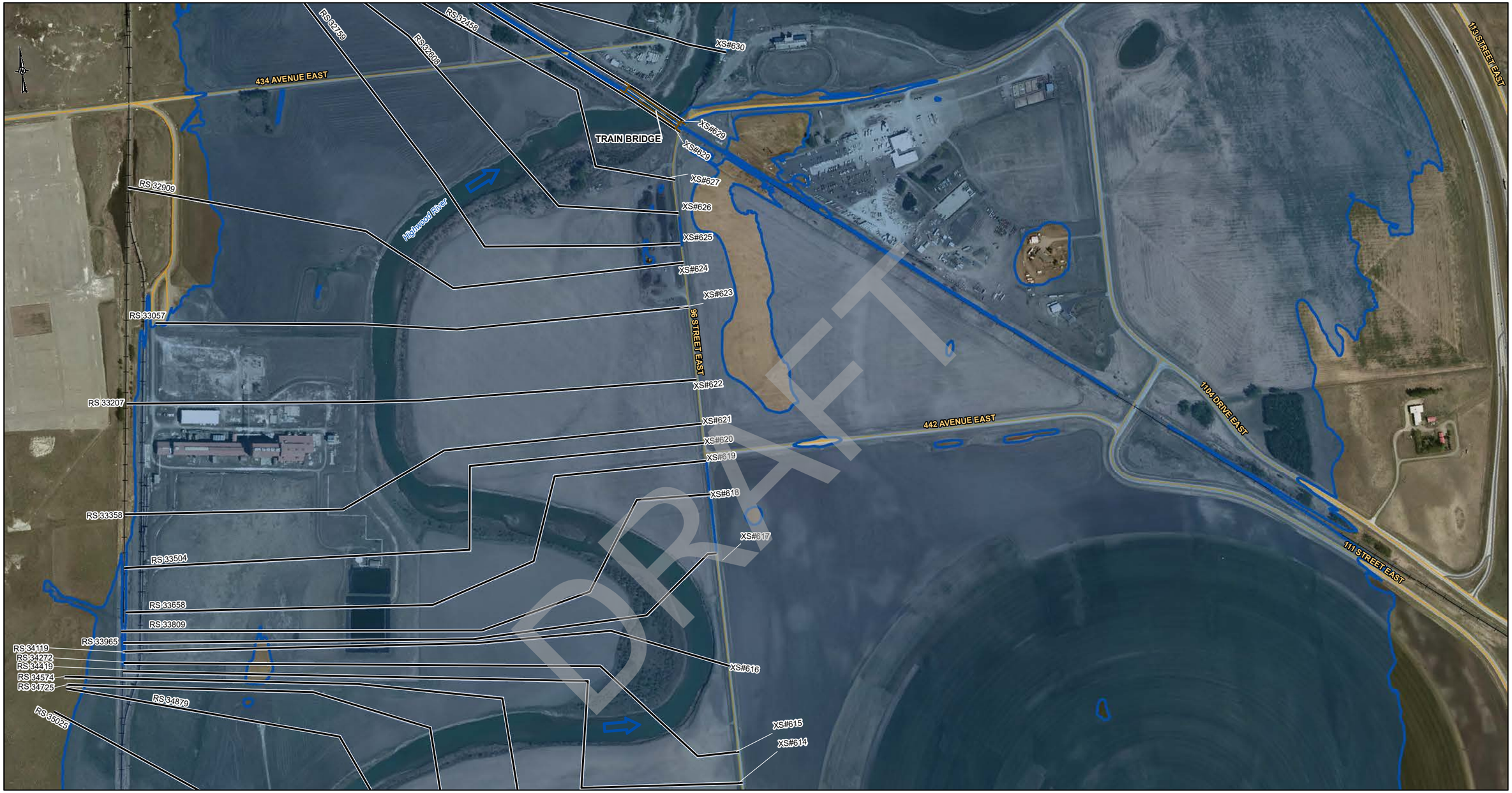
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

Classification: Public

SHEET 21 ↑



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

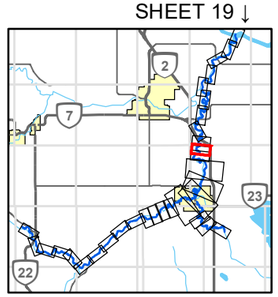
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S

SHEET 19 ↓



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 20 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_1000yr-Inundation_Rev0.mxd

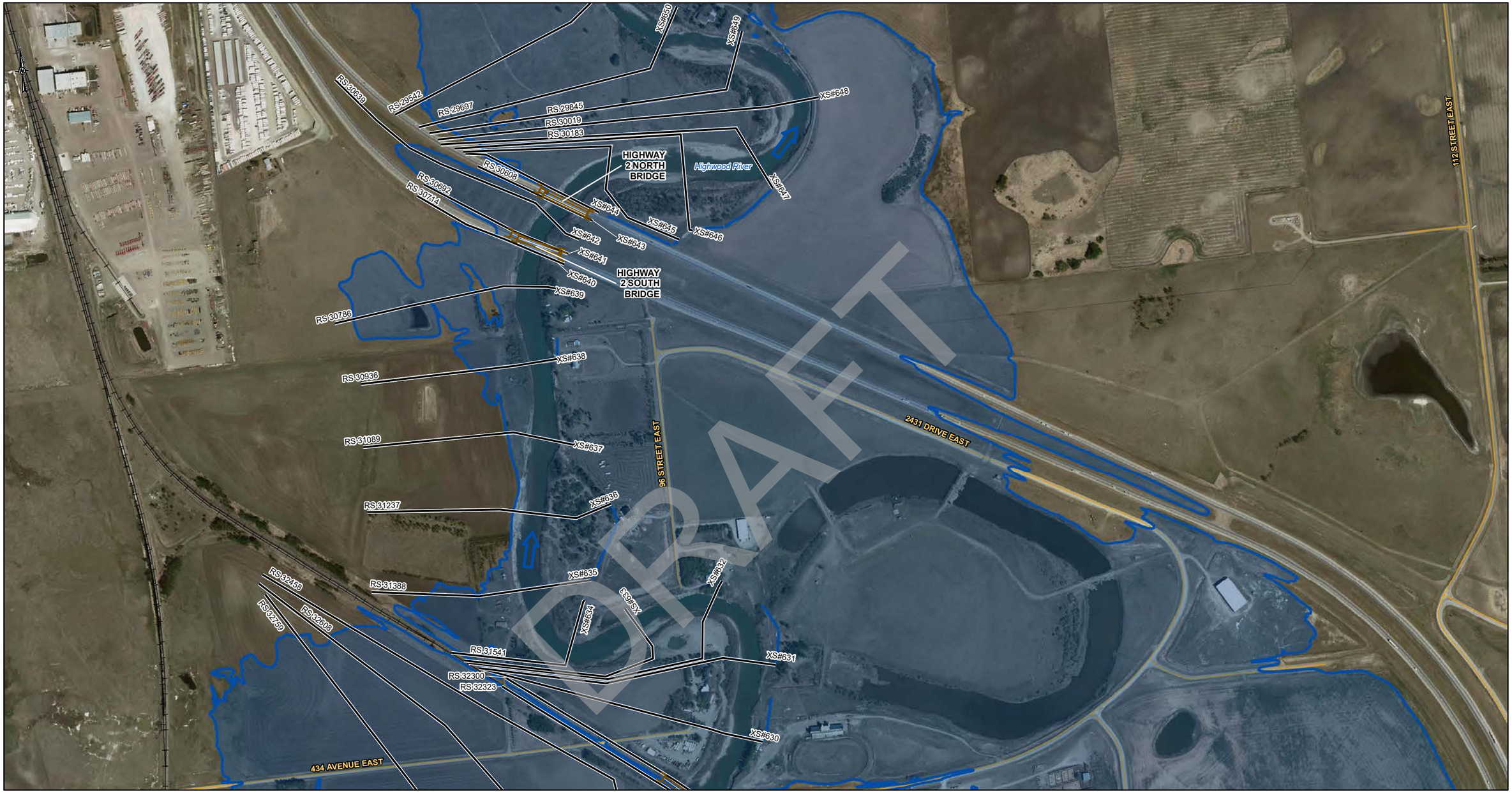
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

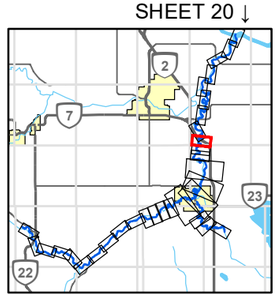
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S

SHEET 20 ↓



0 250 500
1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 21 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_100y-Inundation_Rev0.mxd
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
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Classification: Public



SHEET 21 ↑

SHEET 23 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

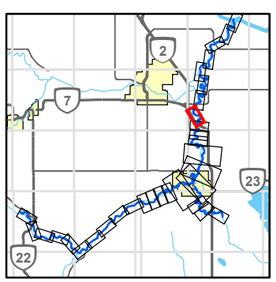
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 22 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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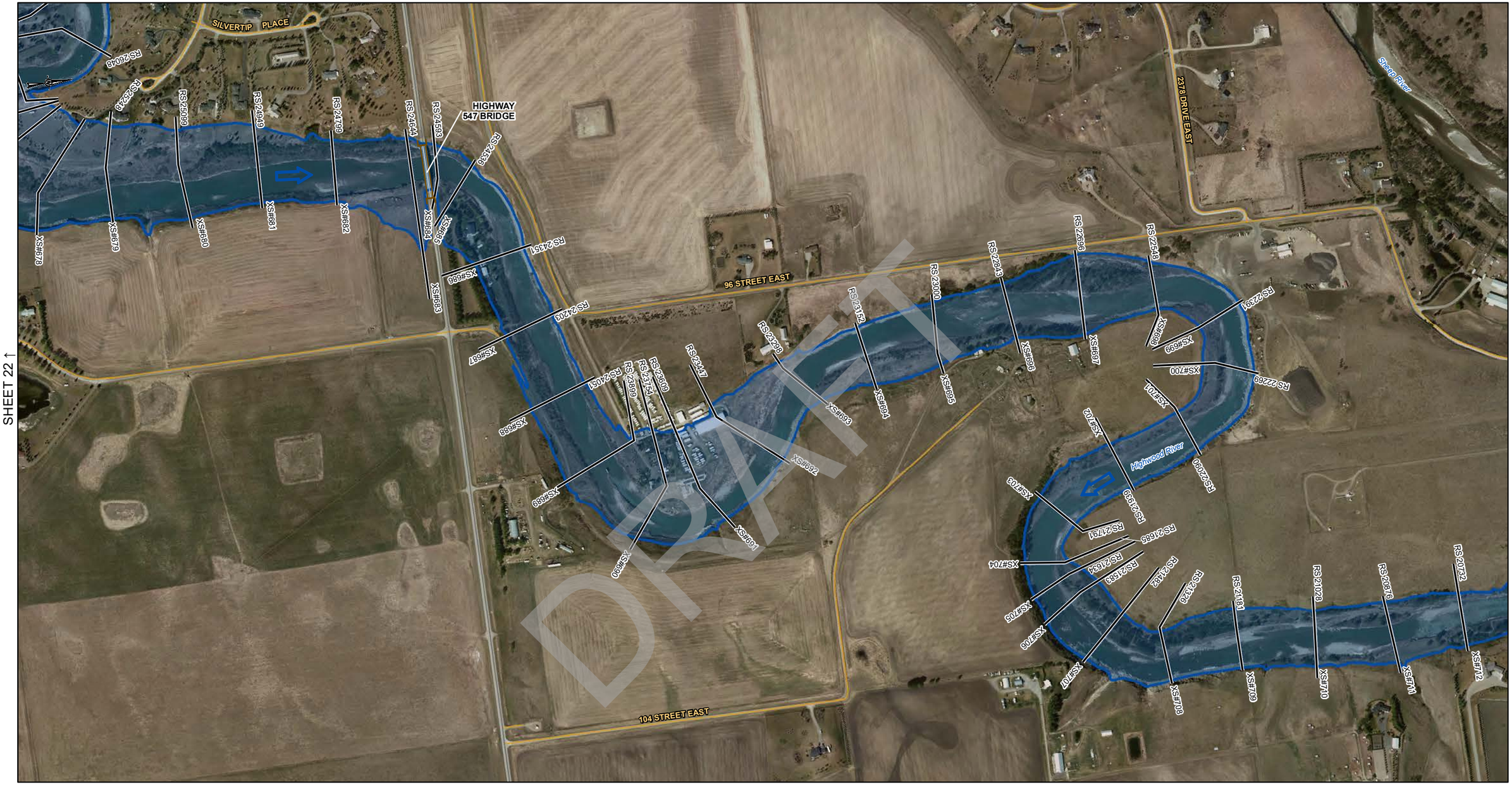
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Classification: Public

SHEET 22 ↑

SHEET 24 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

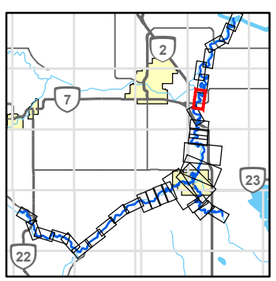
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 23 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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Classification: Public

SHEET 23 ↑

SHEET 25 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

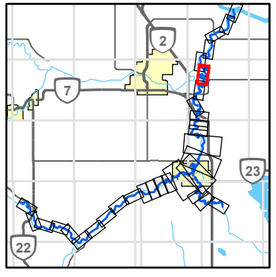
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S



0 250 500

1:7500 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

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MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 24 of 33

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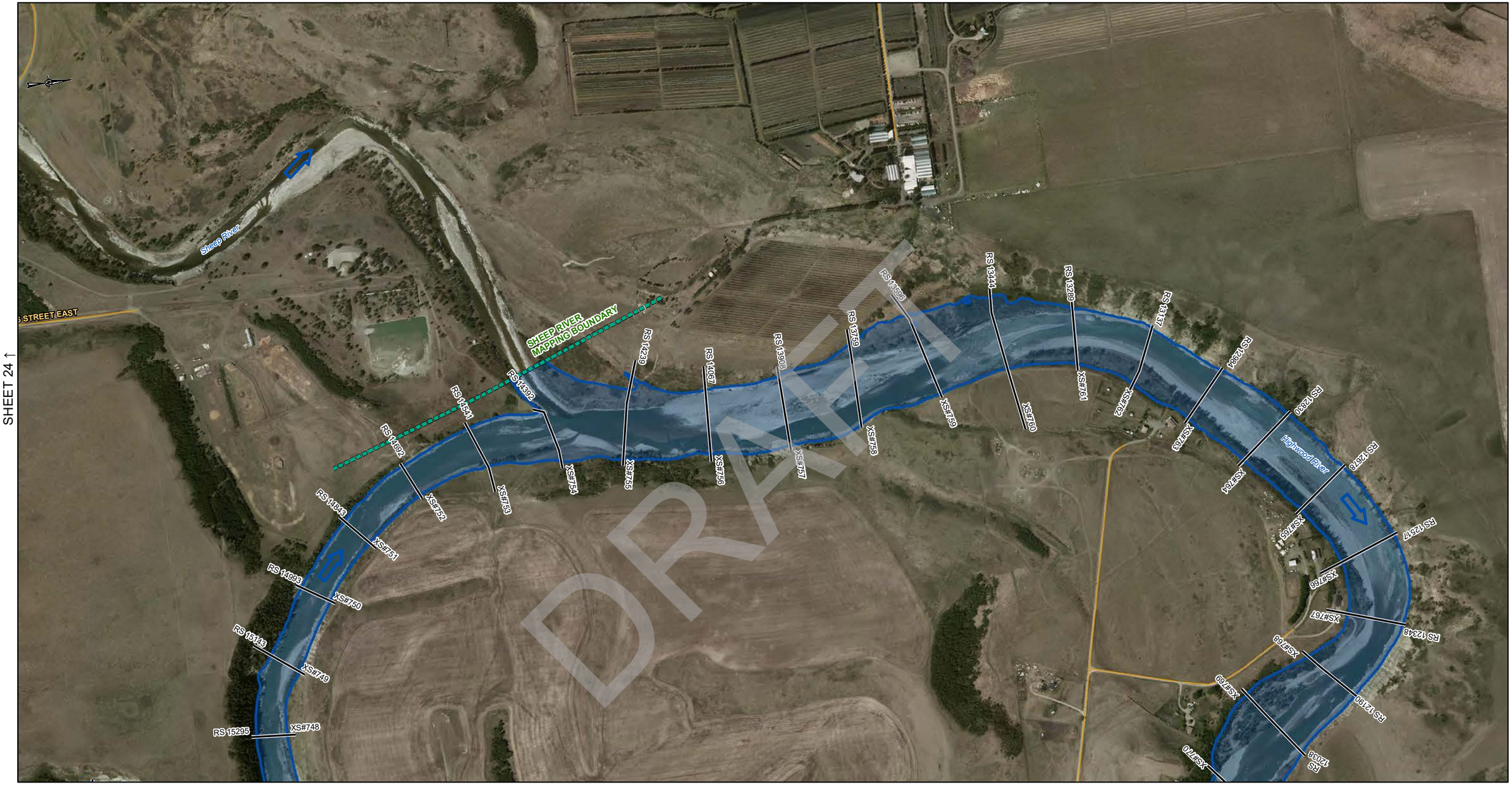
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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

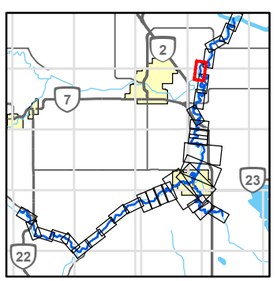
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3222 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



0 250 500
1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 25 of 33

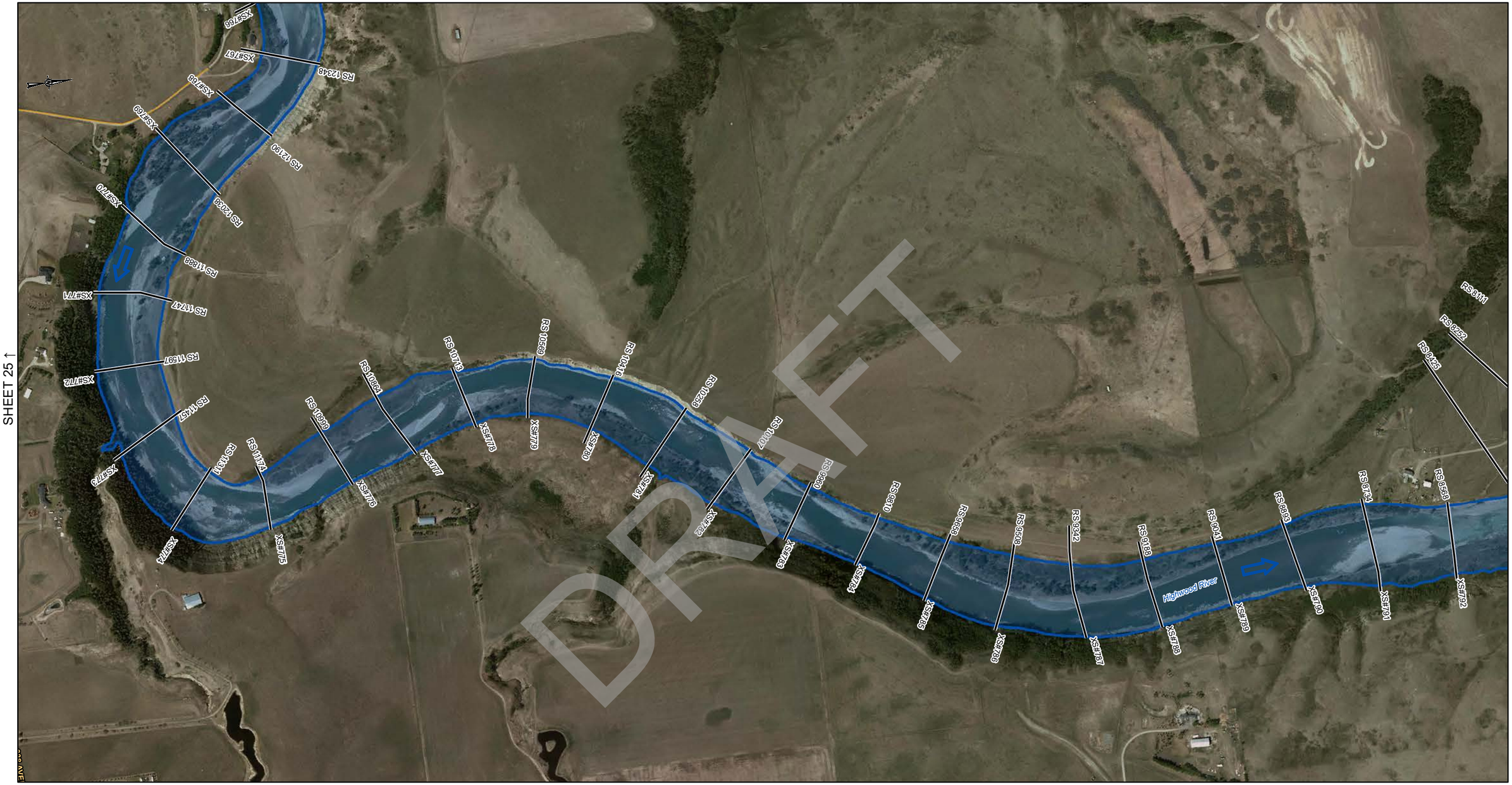
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25mm
0

Classification: Public

SHEET 25 ↑

SHEET 27 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

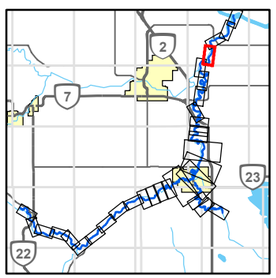
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 26 of 33

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25mm
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Classification: Public

SHEET 26 ↑

SHEET 28 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

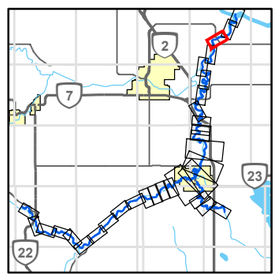
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



0 250 500

1:7500 METRES

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YYYY-MM-DD	2022-03-31
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 27 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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Classification: Public



SHEET 27 ↑

SHEET 29 ↓

DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

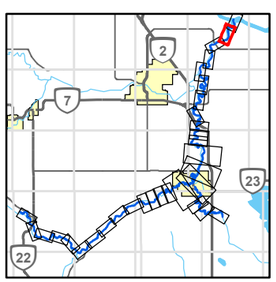
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



0 250 500

1:7500 METRES

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 28 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

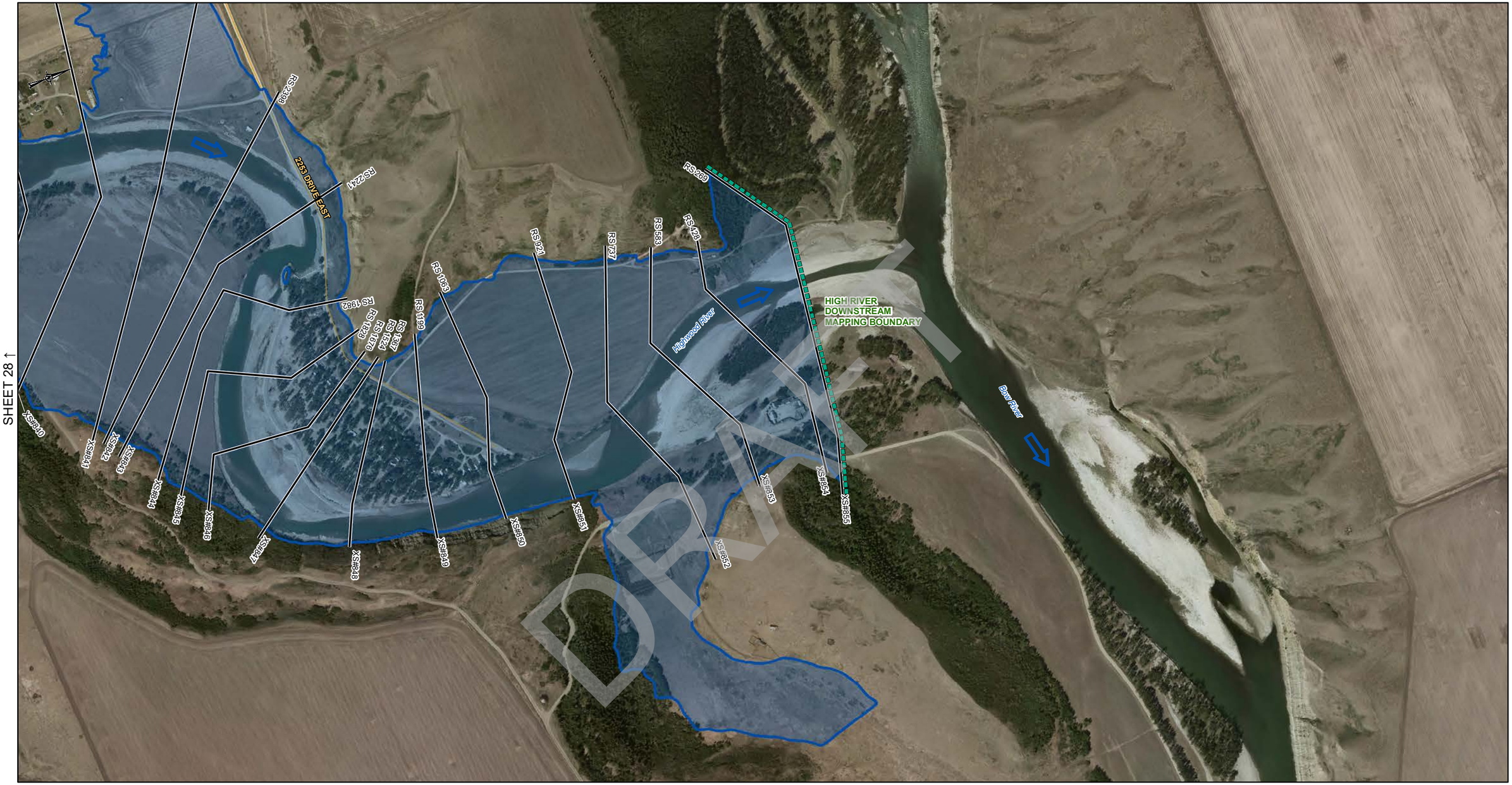
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Classification: Public

SHEET 28 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

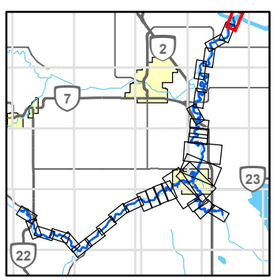
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



0 250 500

1:7500 METRES

REFERENCE(S)

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 29 of 33

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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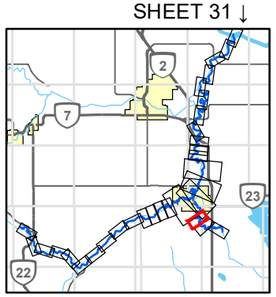
Classification: Public

SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2934 M^3/S

0 250 500
1:7500 METRES

REFERENCE(S)

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MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 30 of 33

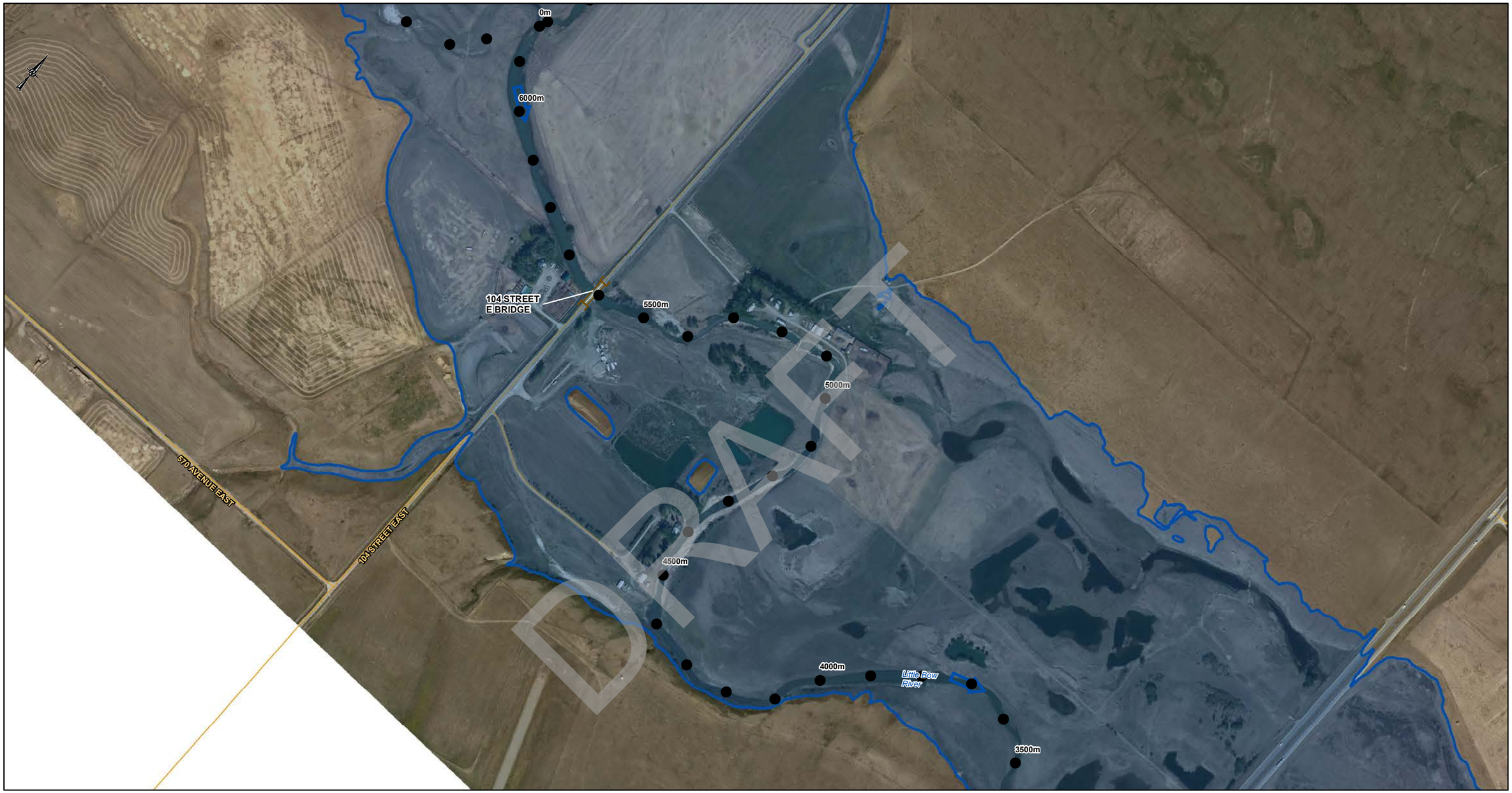
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

Classification: Public

SHEET 30 ↑



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

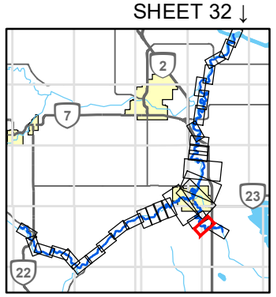
1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2934 M^3/S

SHEET 32 ↓



0 250 500

1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 31 of 33

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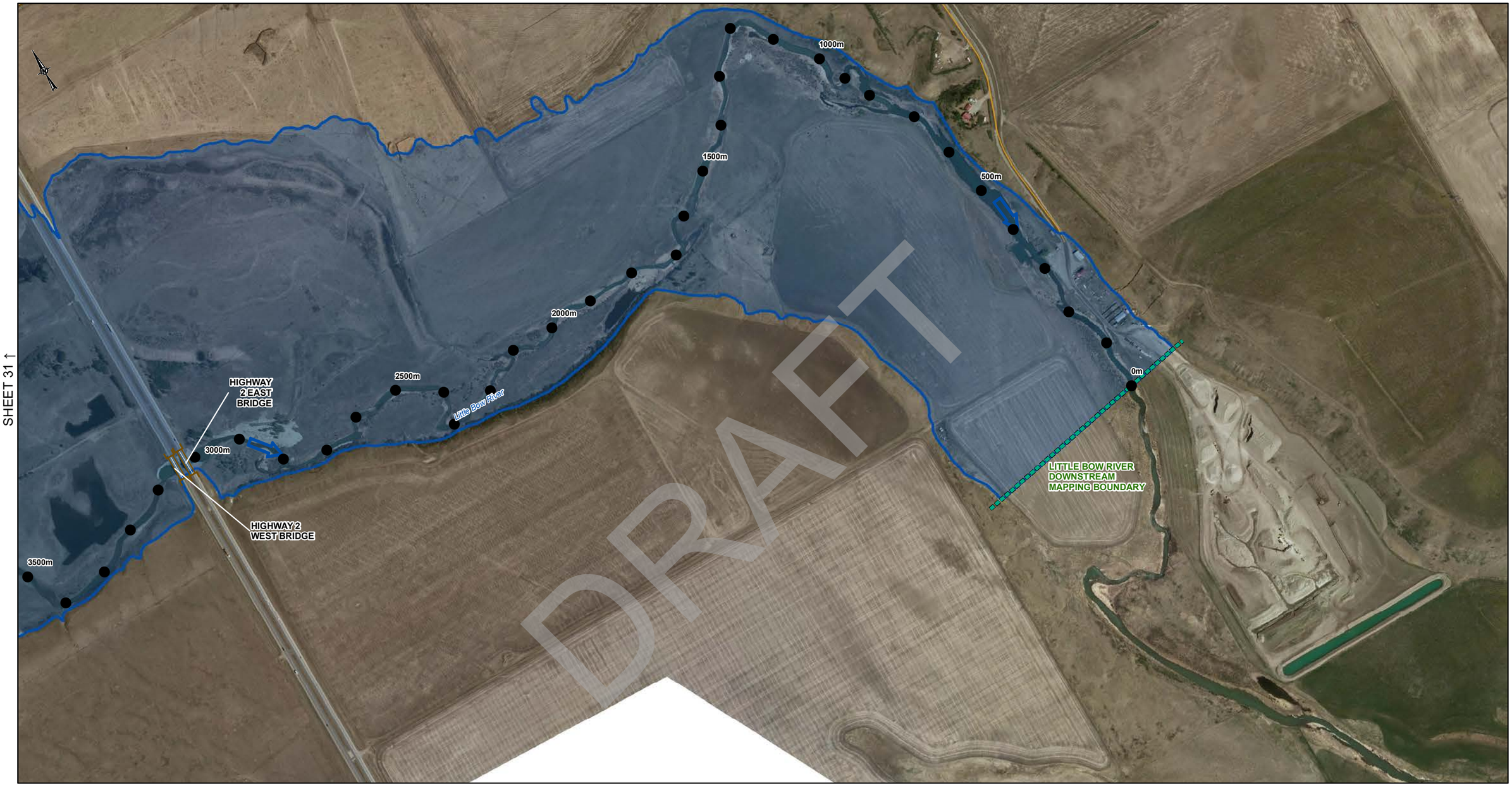
25mm

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Classification: Public

SHEET 31 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

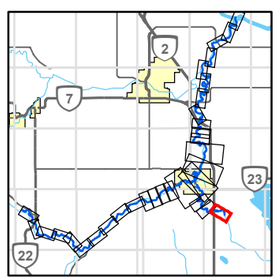
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE
LITTLE BOW RIVER DOWNSTREAM OF HIGH RIVER = 2934 M^3/S



0 250 500
1:7500 METRES

REFERENCE(S)
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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 32 of 33

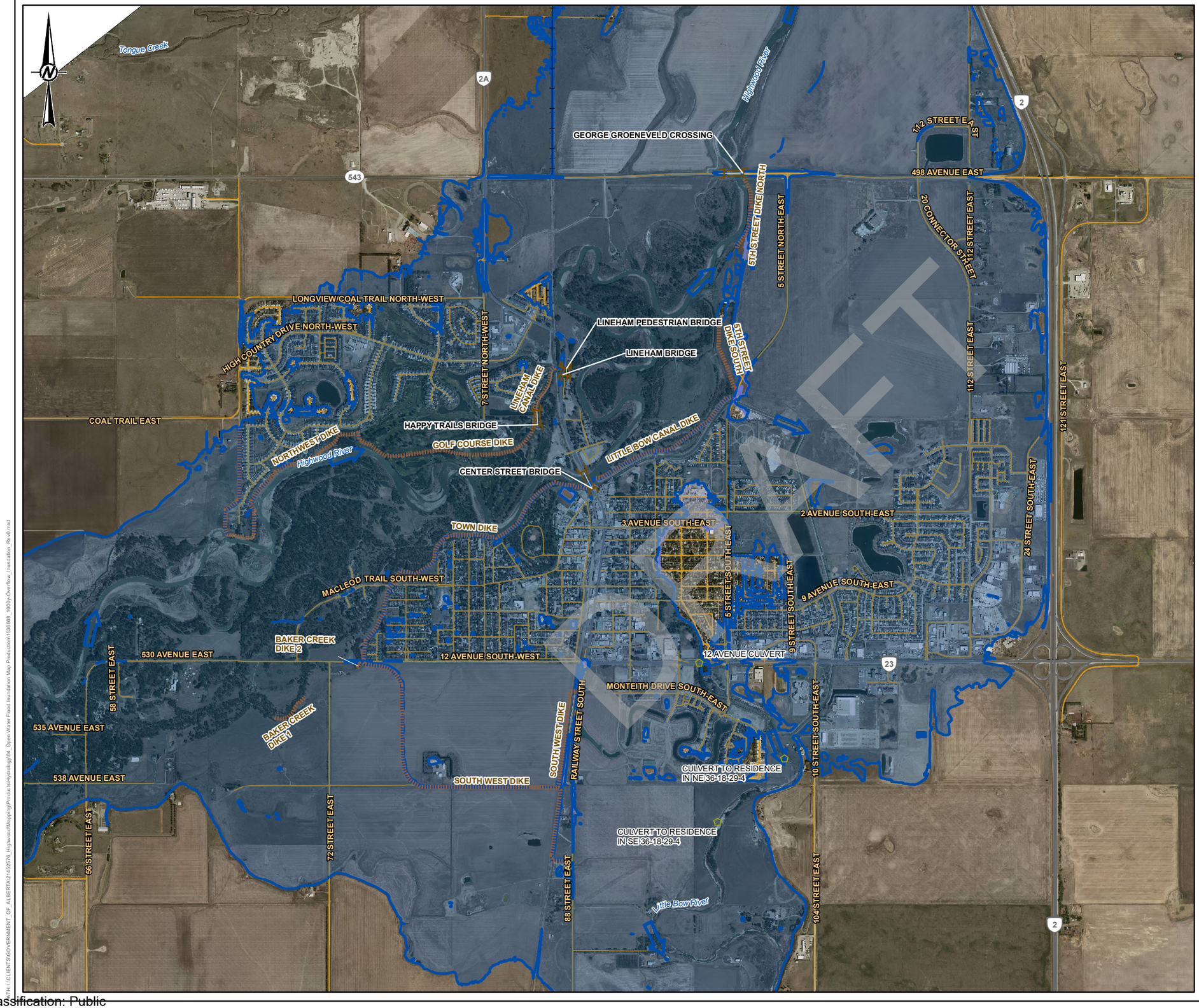
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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LEGEND

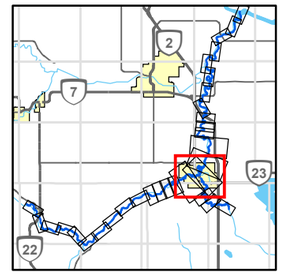
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



0 1,000 2,000

1:40,000 METRES

REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
REVIEWED	JC
APPROVED	HZ

PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 33 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_1000y-Overflow_Inundation_Rev0.mxd

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For more information, visit golder.com

Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 44 1628 851851
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

DRAFT

Golder Associates Ltd.
102, 2535 - 3rd Avenue S.E.
Calgary, Alberta, T2A 7W5
Canada
T: +1 (403) 299 5600

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