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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1 Digital Copy – Alberta Environment and Parks

Classification: Public

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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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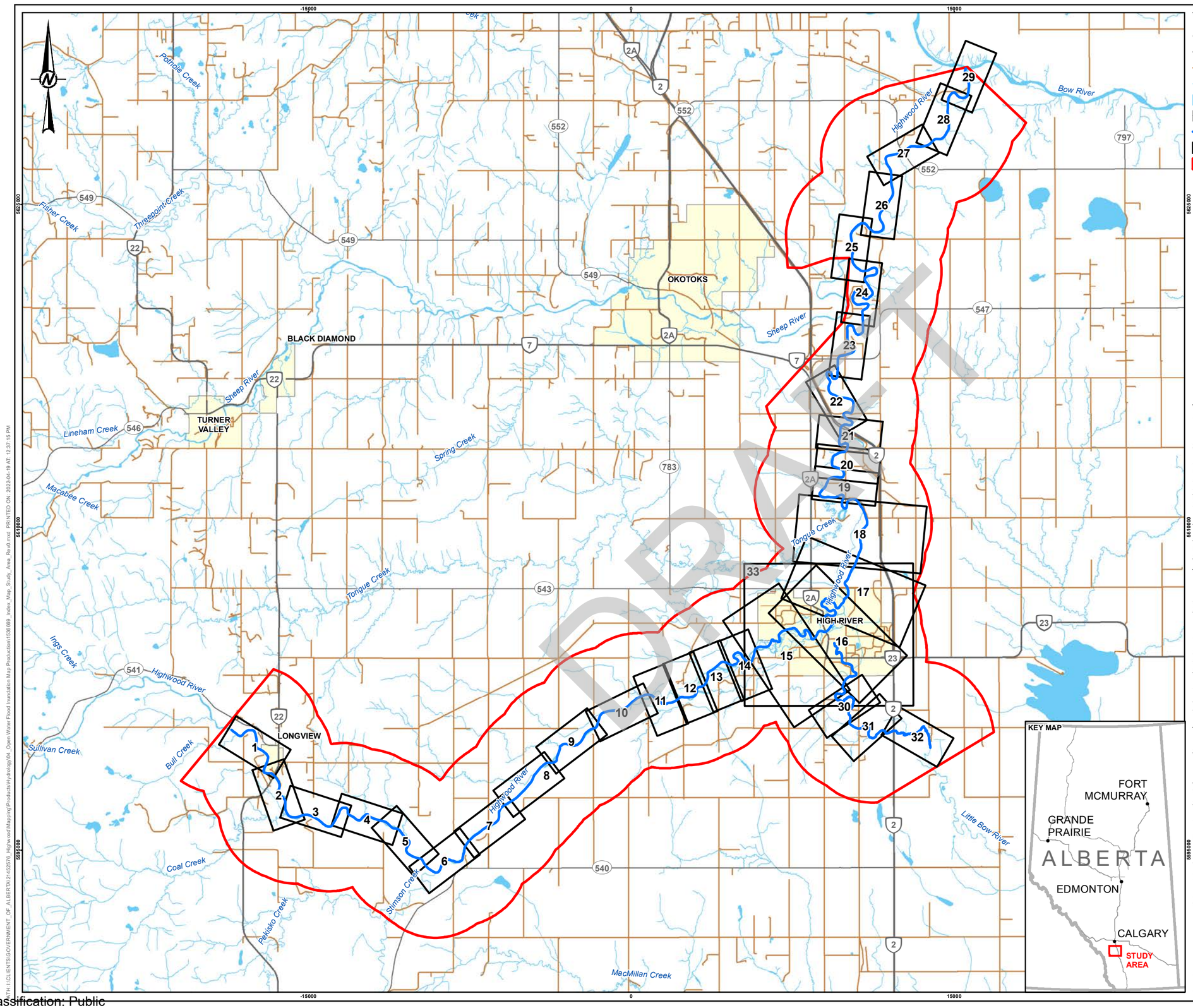
Classification: Public



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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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

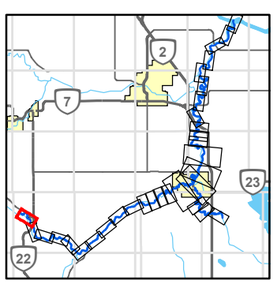
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

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GOLDER
MEMBER OF WSP

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PREPARED	NB
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 YEAR INUNDATION EXTENT

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1536669	4000	0	SHEET 1 of 33

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SHEET 1 ↑

SHEET 3 ↓

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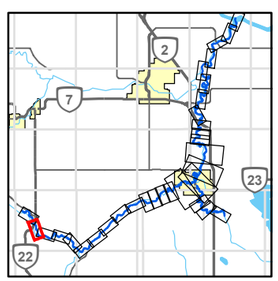

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1536669	4000	0	SHEET 2 of 33

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Classification: Public

SHEET 2 ↑

SHEET 4 ↓



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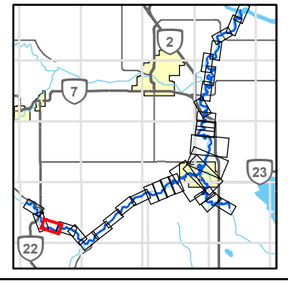

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2 YEAR INUNDATION EXTENT

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

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SHEET 3 ↑

SHEET 5 ↓



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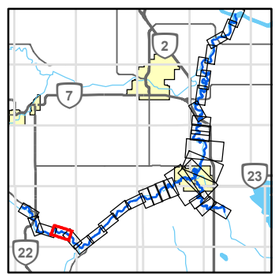

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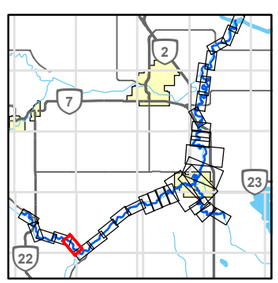

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2 YEAR INUNDATION EXTENT

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SHEET 5 ↑



SHEET 7 ↓

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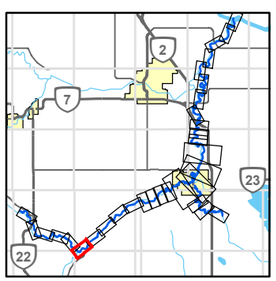
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 78.9 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 118 M^3/S



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

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SHEET 6 ↑

SHEET 8 ↓



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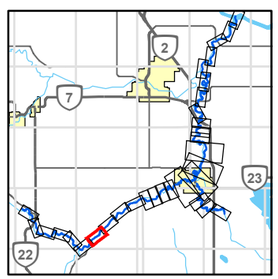
DESIGN DISCHARGE

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



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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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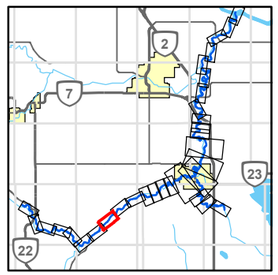

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1536669	4000	0	SHEET 8 of 33

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Classification: Public

SHEET 8 ↑

SHEET 10 ↓



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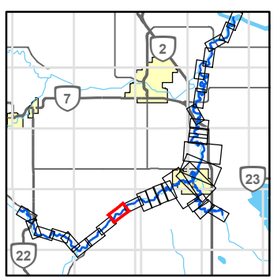

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CLIENT
ALBERTA ENVIRONMENT AND PARKS

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
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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

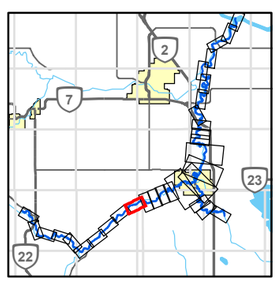
- CULVERT
- WEIR
- BRIDGE

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



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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 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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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

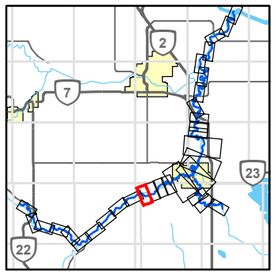
- CULVERT
- WEIR
- BRIDGE

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



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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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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 11 of 33

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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

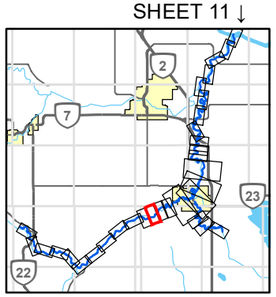
2-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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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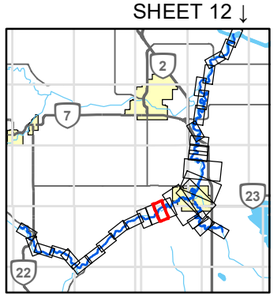
Classification: Public

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

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APPROVED	HZ

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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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

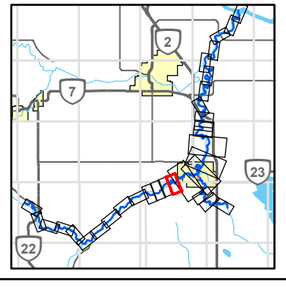
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 14 of 33

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

HYDRAULIC STRUCTURES

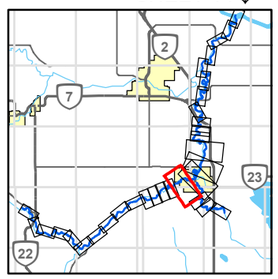
- CULVERT
- WEIR
- BRIDGE

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



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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 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

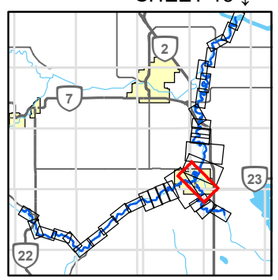
2-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 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

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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

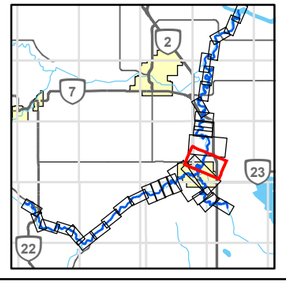
HYDRAULIC STRUCTURES

- 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



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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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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

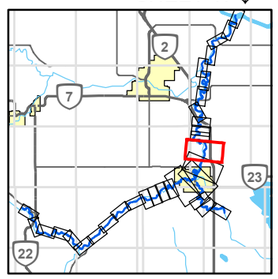
2-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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REVIEWED	JC
APPROVED	HZ

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
2 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

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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

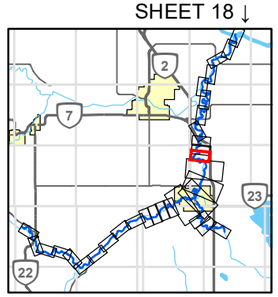
2-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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

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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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

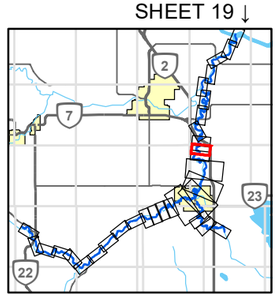
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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
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
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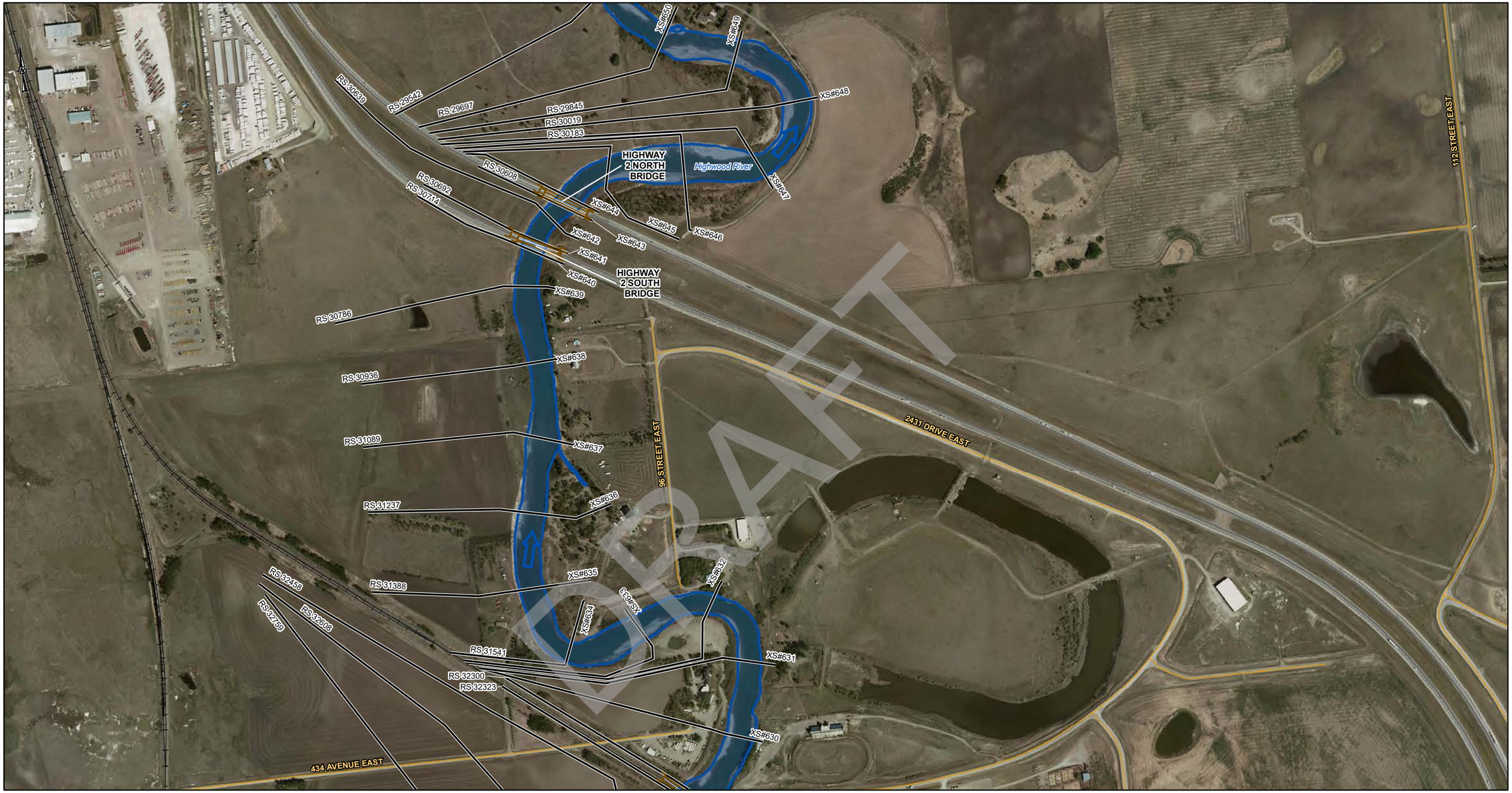
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0002y-Inundation_Rev0.mxd

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

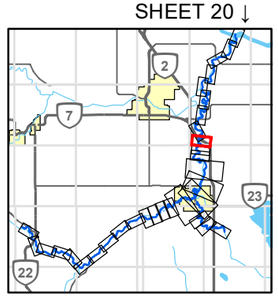
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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

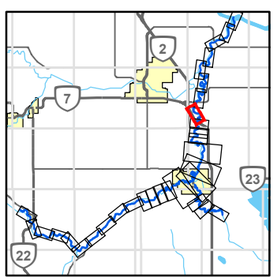
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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 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

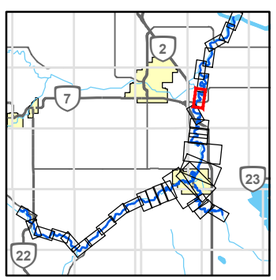
- CULVERT
- WEIR
- BRIDGE

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



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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 ↓



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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

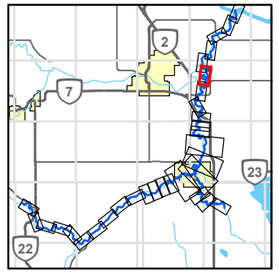
- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

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



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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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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

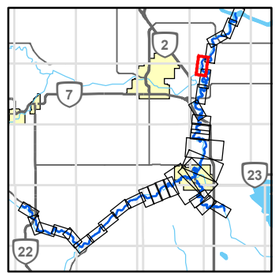
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

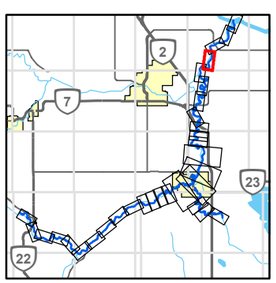
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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 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 ↓



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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

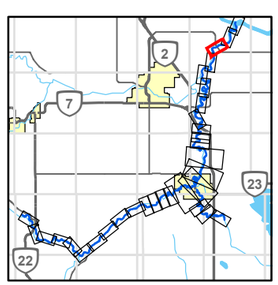
HYDRAULIC STRUCTURES

- 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 SHEEP RIVER = 213 M^3/S



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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 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

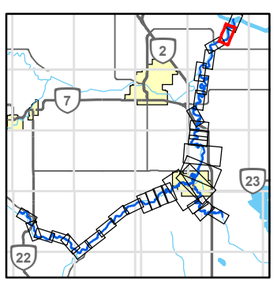
- CULVERT
- WEIR
- BRIDGE

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



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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 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



LEGEND

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

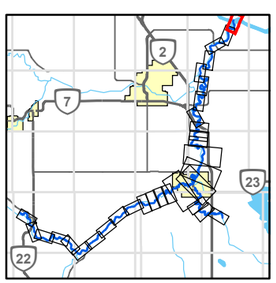
HYDRAULIC STRUCTURES

- 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



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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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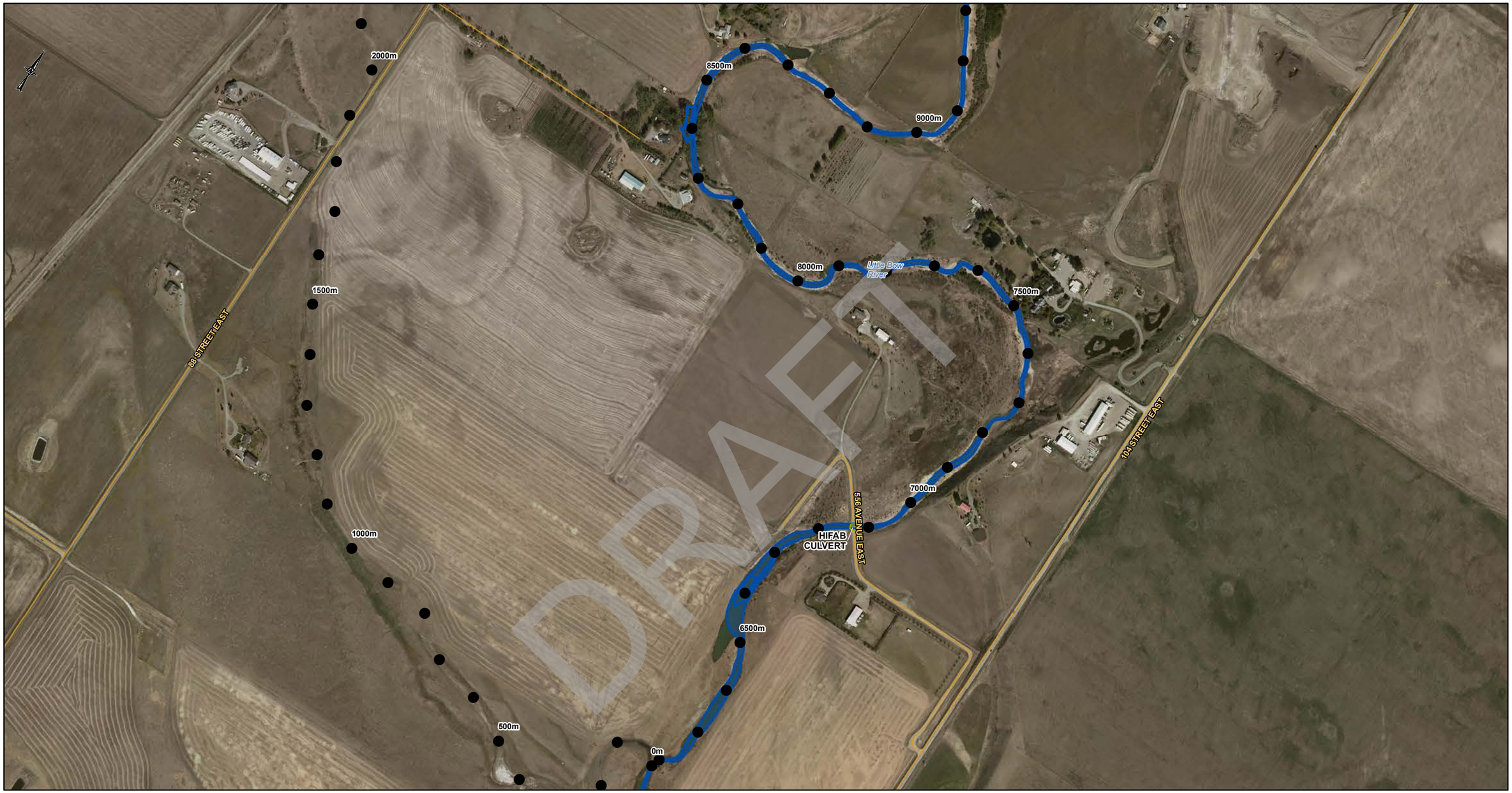
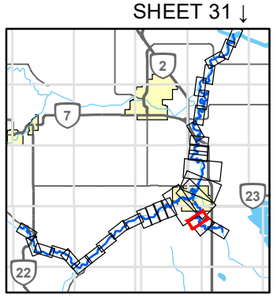
Classification: Public

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
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APPROVED	HZ

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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

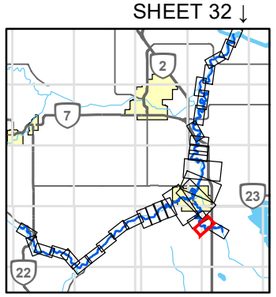
2-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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

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

25mm

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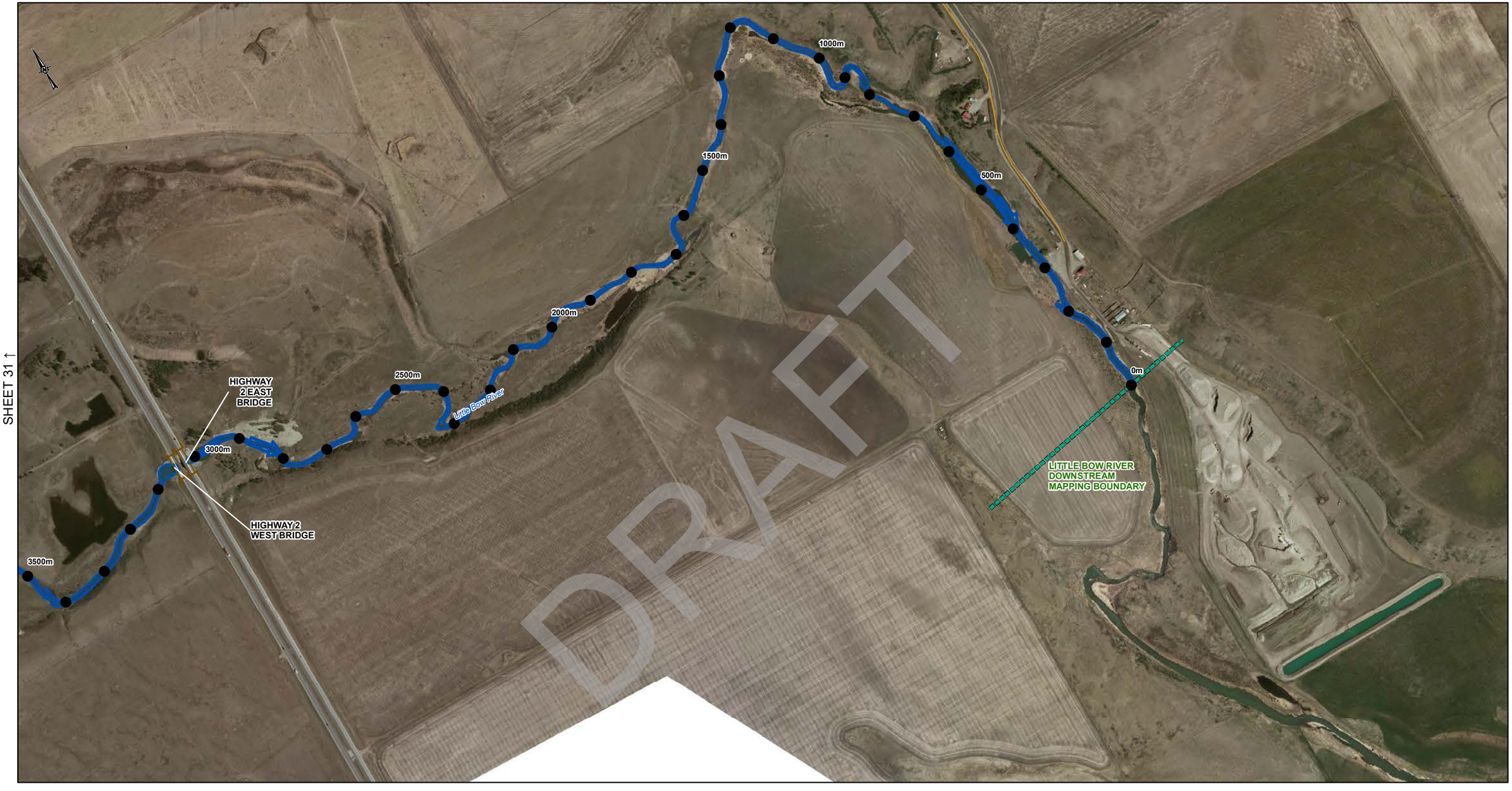
Classification: Public

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

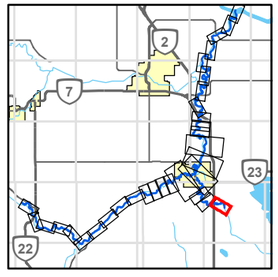
- CULVERT
- WEIR
- BRIDGE

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



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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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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 32 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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25mm

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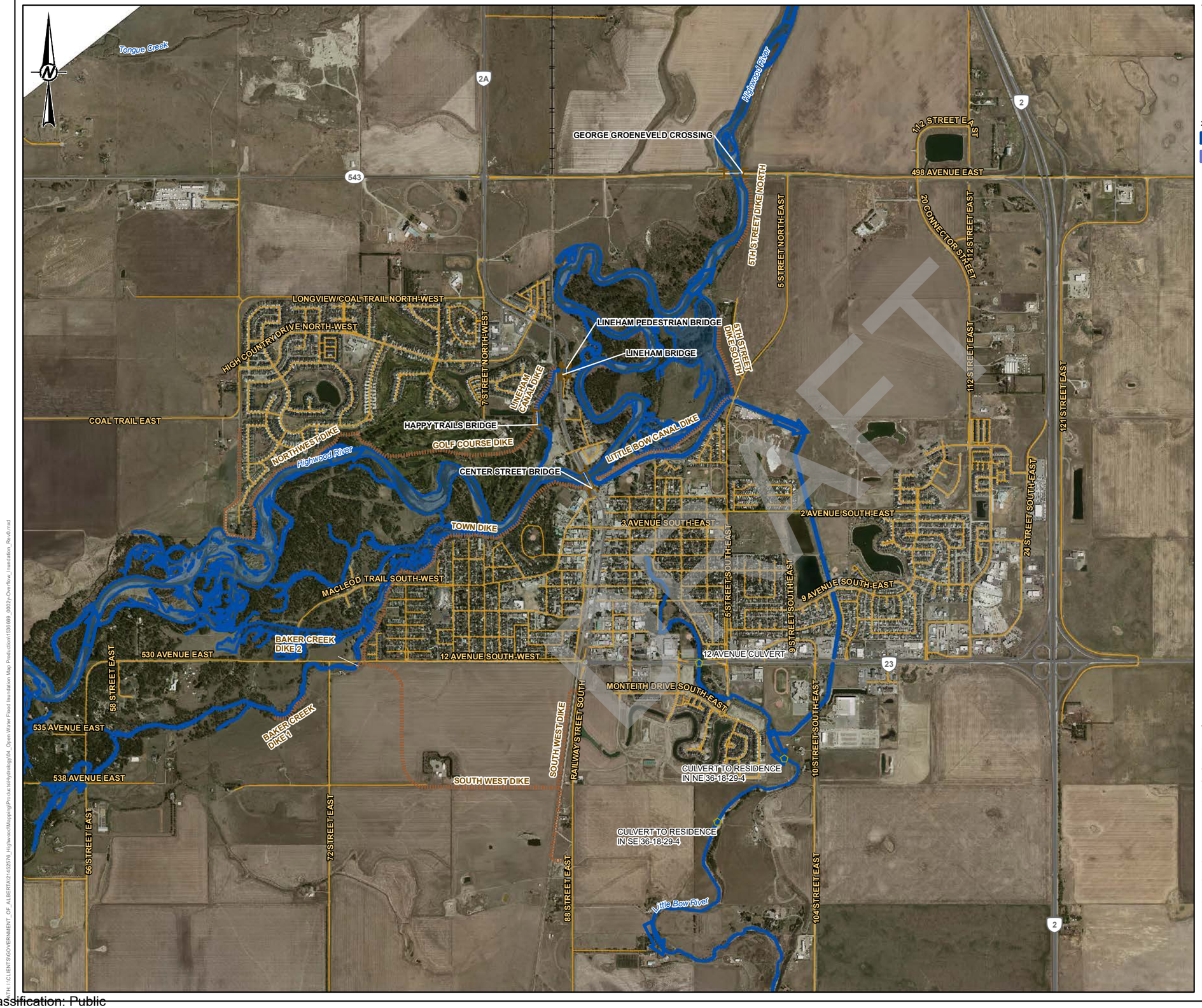
Classification: Public



LEGEND

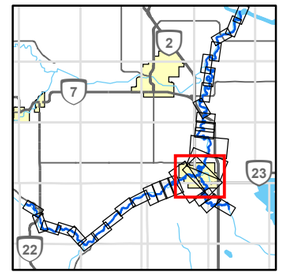
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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



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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Product\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0002r-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

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

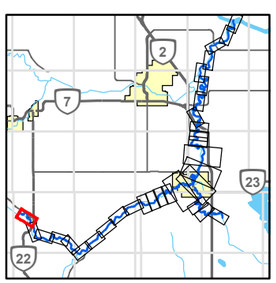
HYDRAULIC STRUCTURES

- 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



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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 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

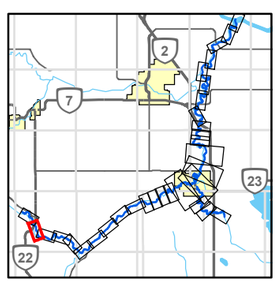
- CULVERT
- WEIR
- BRIDGE

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



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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 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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LEGEND

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

HYDRAULIC STRUCTURES

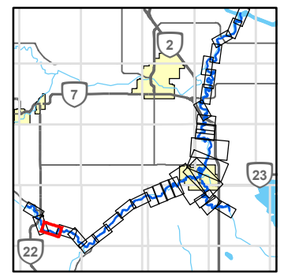
- CULVERT
- WEIR
- BRIDGE

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



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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 3 of 33

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

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

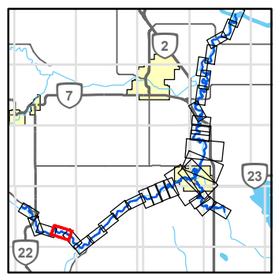
- CULVERT
- WEIR
- BRIDGE

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



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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 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

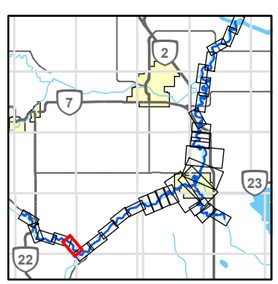
- CULVERT
- WEIR
- BRIDGE

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



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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 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

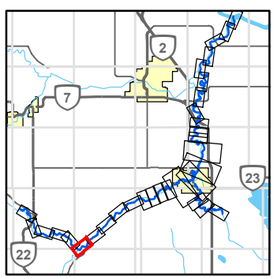
- CULVERT
- WEIR
- BRIDGE

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



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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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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

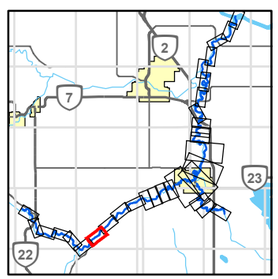
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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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 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

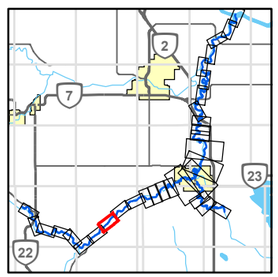
- CULVERT
- WEIR
- BRIDGE

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



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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
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 ↓



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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

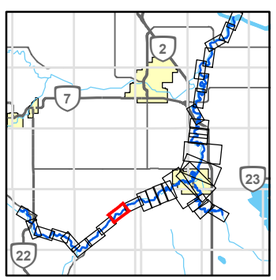
HYDRAULIC STRUCTURES

- 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 STIMSON CREEK = 231 M^3/S



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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
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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

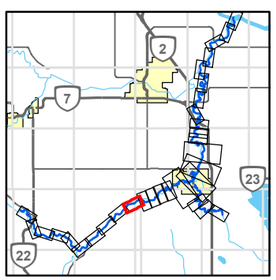
- CULVERT
- WEIR
- BRIDGE

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



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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 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

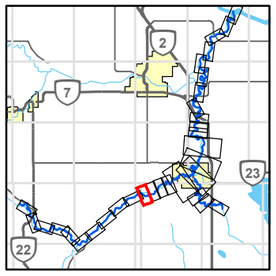
- CULVERT
- WEIR
- BRIDGE

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



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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 ↑



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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

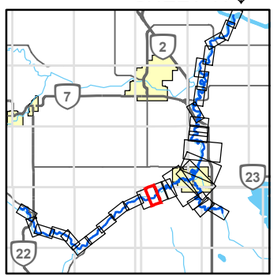
- CULVERT
- WEIR
- BRIDGE

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



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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

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

25mm

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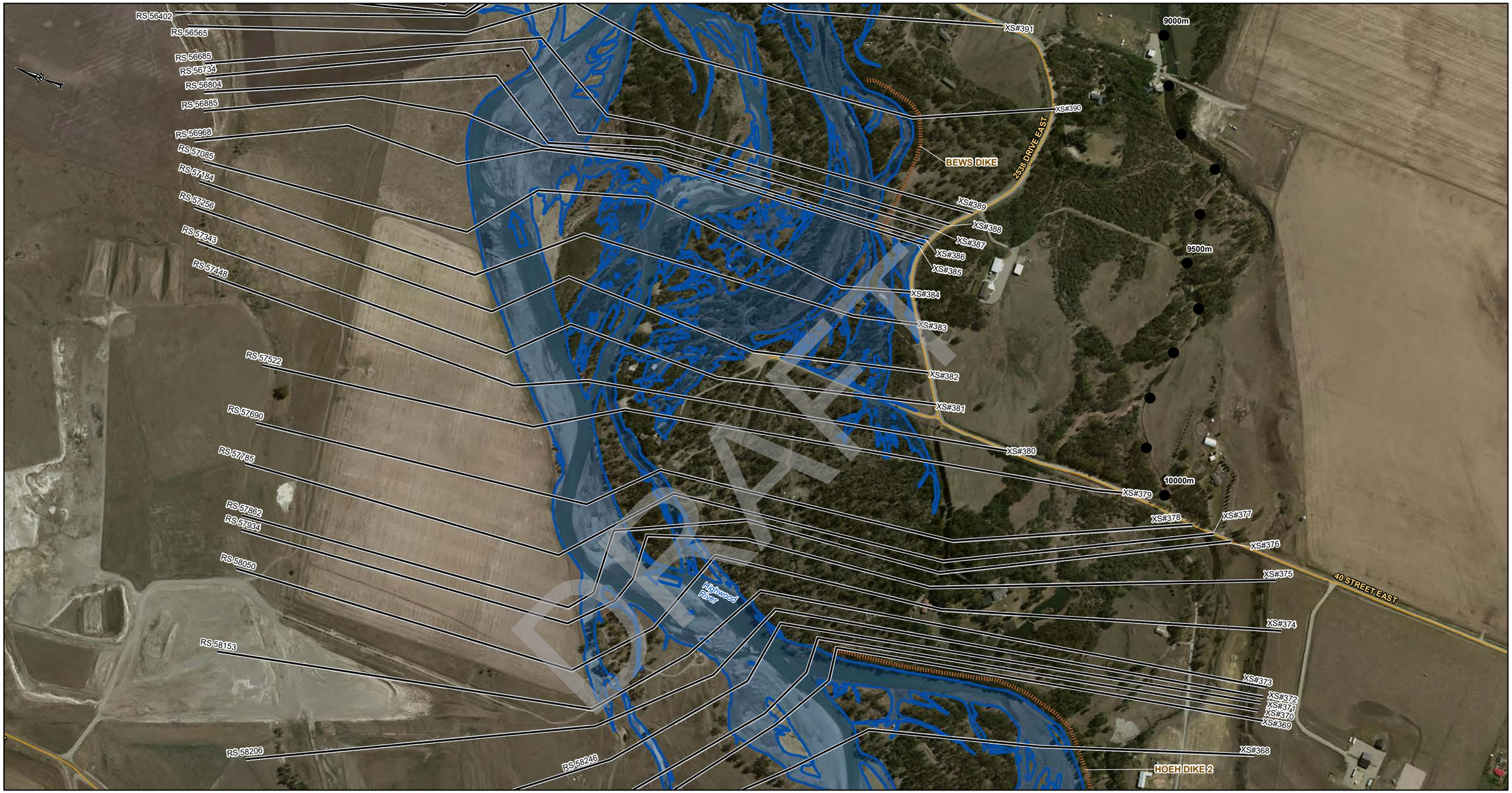
Classification: Public

SHEET 14 ↑



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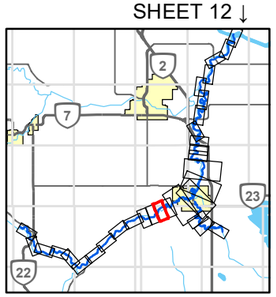

LEGEND

- 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 STIMSON CREEK = 231 M^3/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 13 of 33

DRAFT

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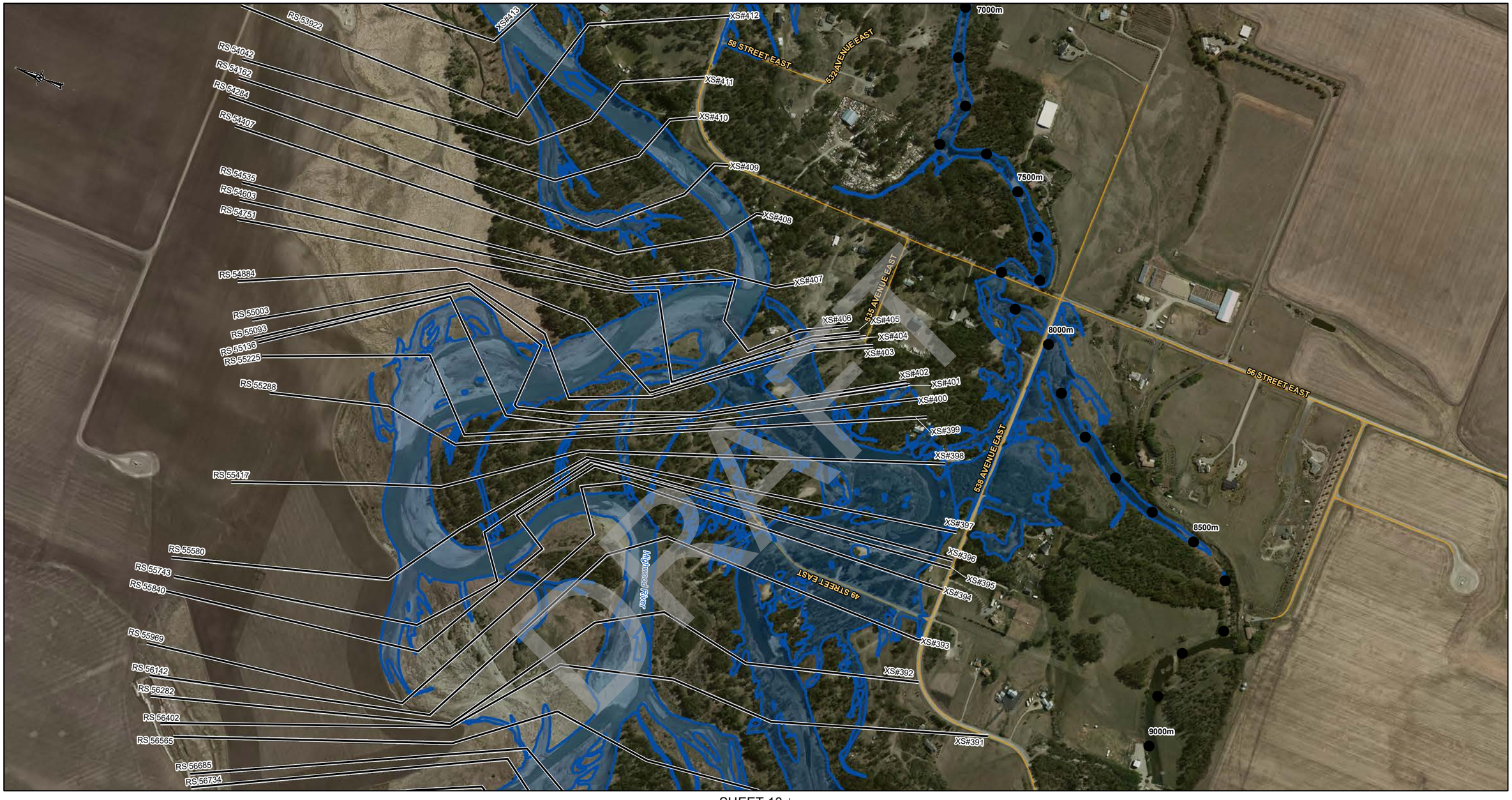
SHEET 15 ↑



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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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

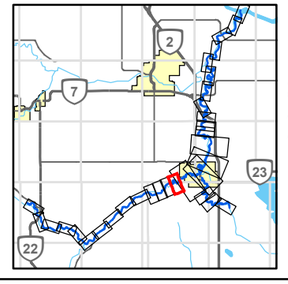
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 14 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
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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

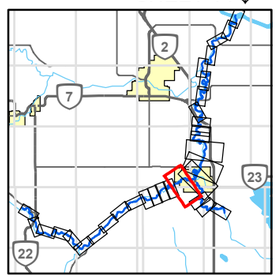
5-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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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25mm

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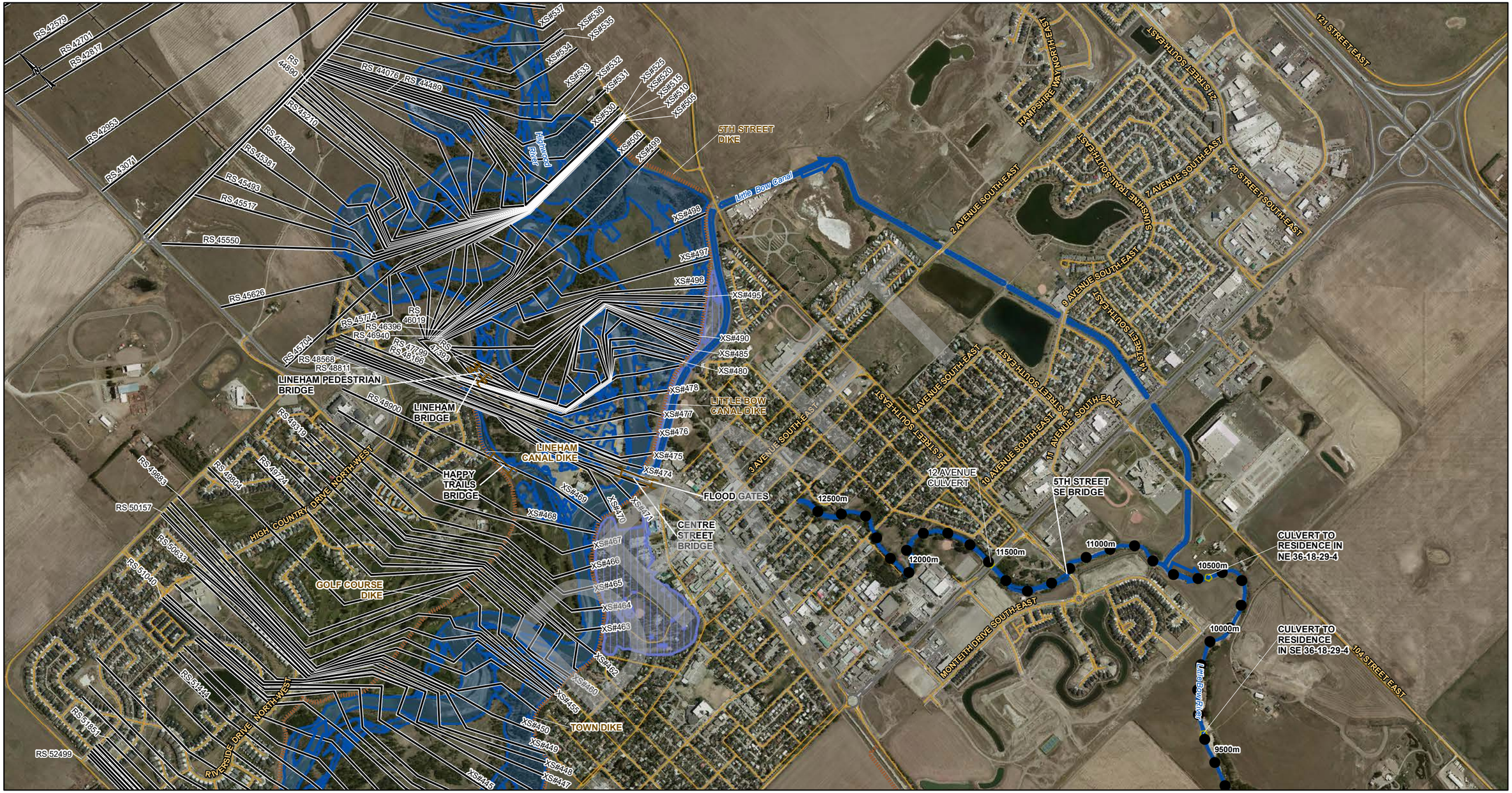
Classification: Public

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

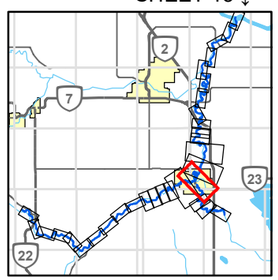
5-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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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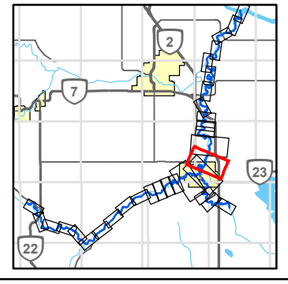
Classification: Public

SHEET 18 ↑



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

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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

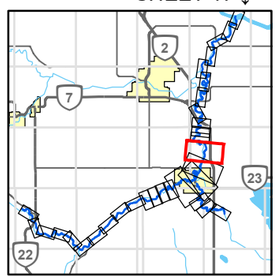
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 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

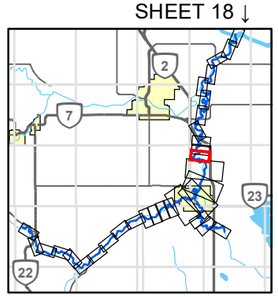
5-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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REFERENCE(S)

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DESIGNED	PT
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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 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

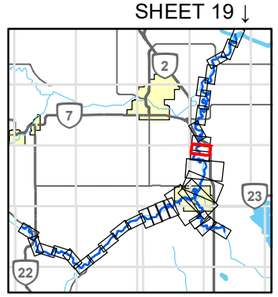
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 20 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0005y-Inundation_Rev0.mxd

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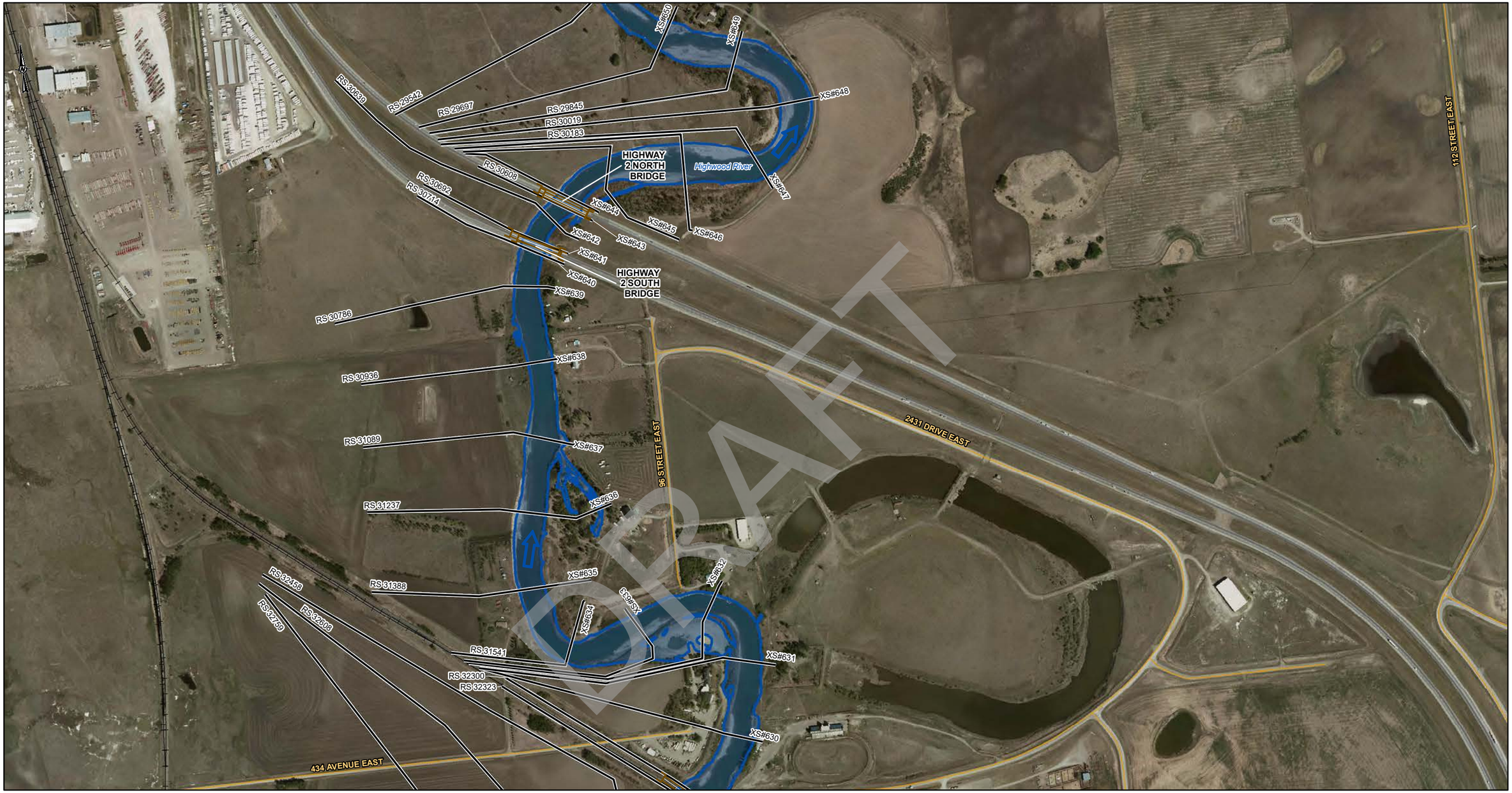
Classification: Public

SHEET 22 ↑



DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

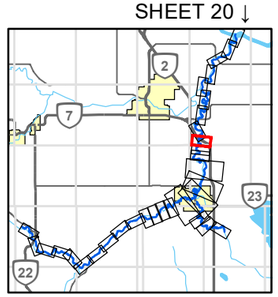
- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

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

SHEET 20 ↓



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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



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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

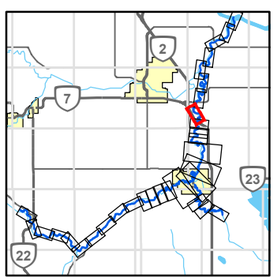
- CULVERT
- WEIR
- BRIDGE

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



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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 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

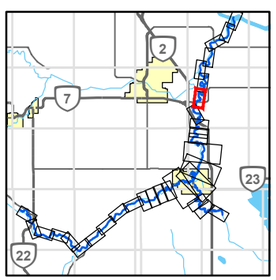
- CULVERT
- WEIR
- BRIDGE

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



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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

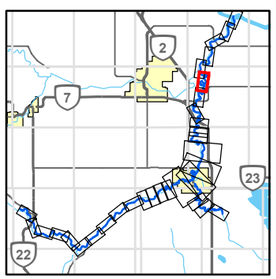
- CULVERT
- WEIR
- BRIDGE

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



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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 24 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0905v-Inundation_Rev0.mxd

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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

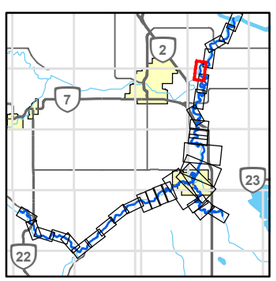
- CULVERT
- WEIR
- BRIDGE

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



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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 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

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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

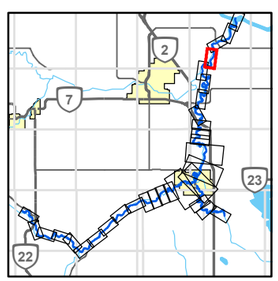
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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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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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

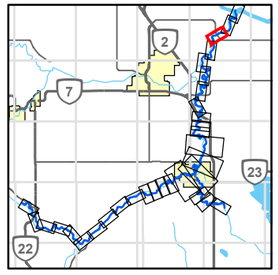
HYDRAULIC STRUCTURES

- 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



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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

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25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2005y-Inundation_Rev0.mxd

Classification: Public



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

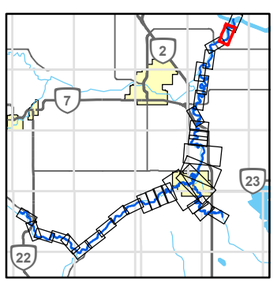
- CULVERT
- WEIR
- BRIDGE

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



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

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

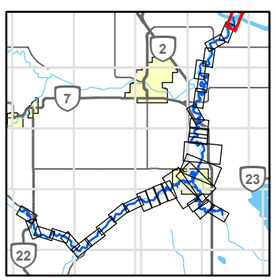
HYDRAULIC STRUCTURES

- 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



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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
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

25mm

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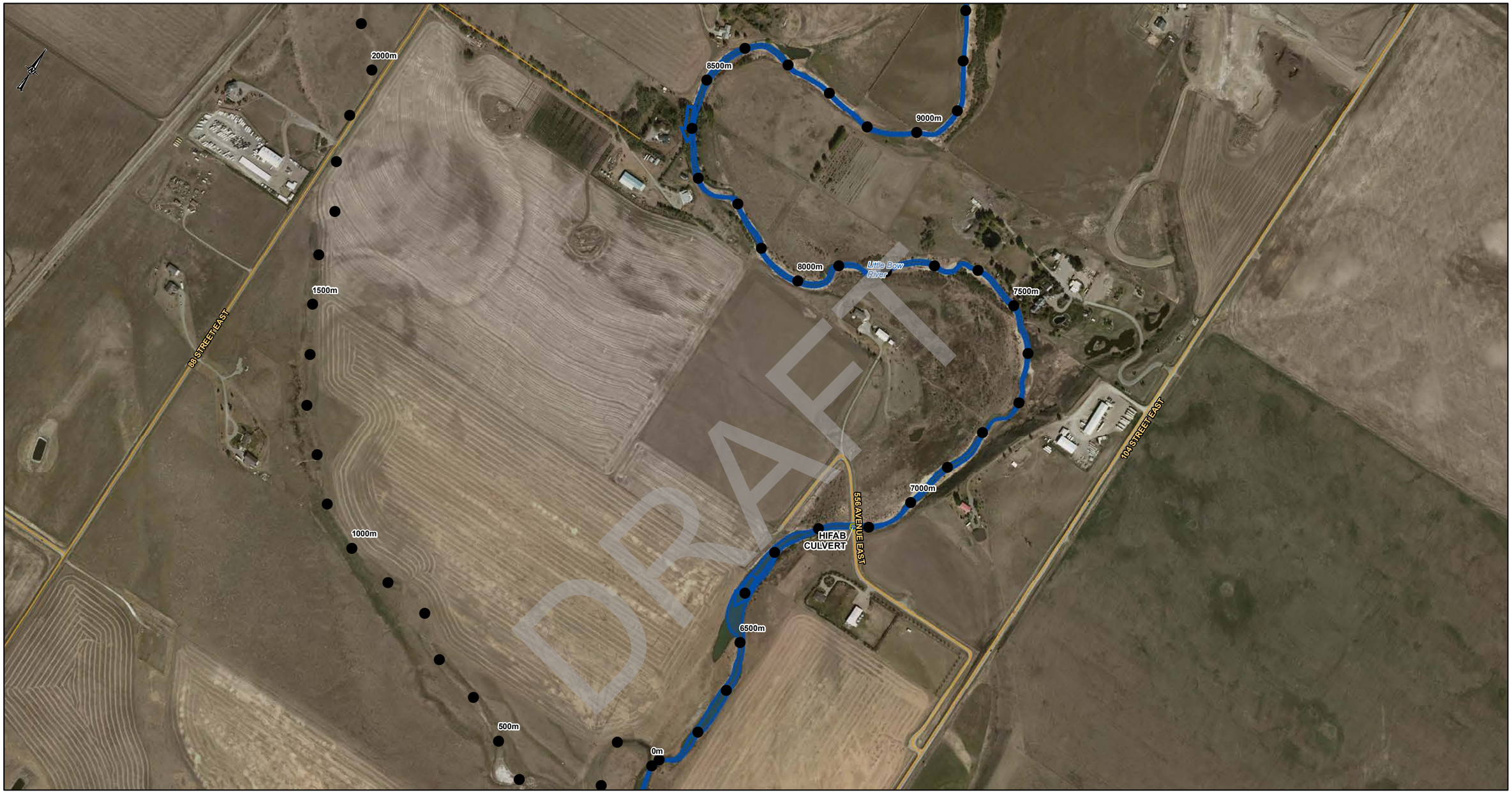
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0005y-Inundation_Rev0.mxd

Classification: Public

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

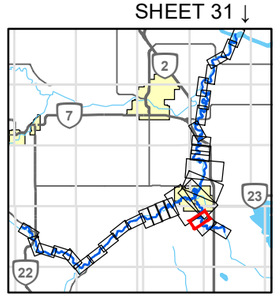
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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
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

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

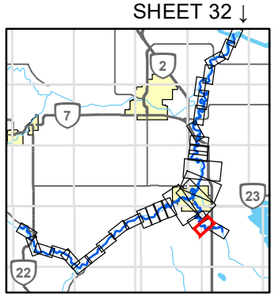
- CULVERT
- WEIR
- BRIDGE

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



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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 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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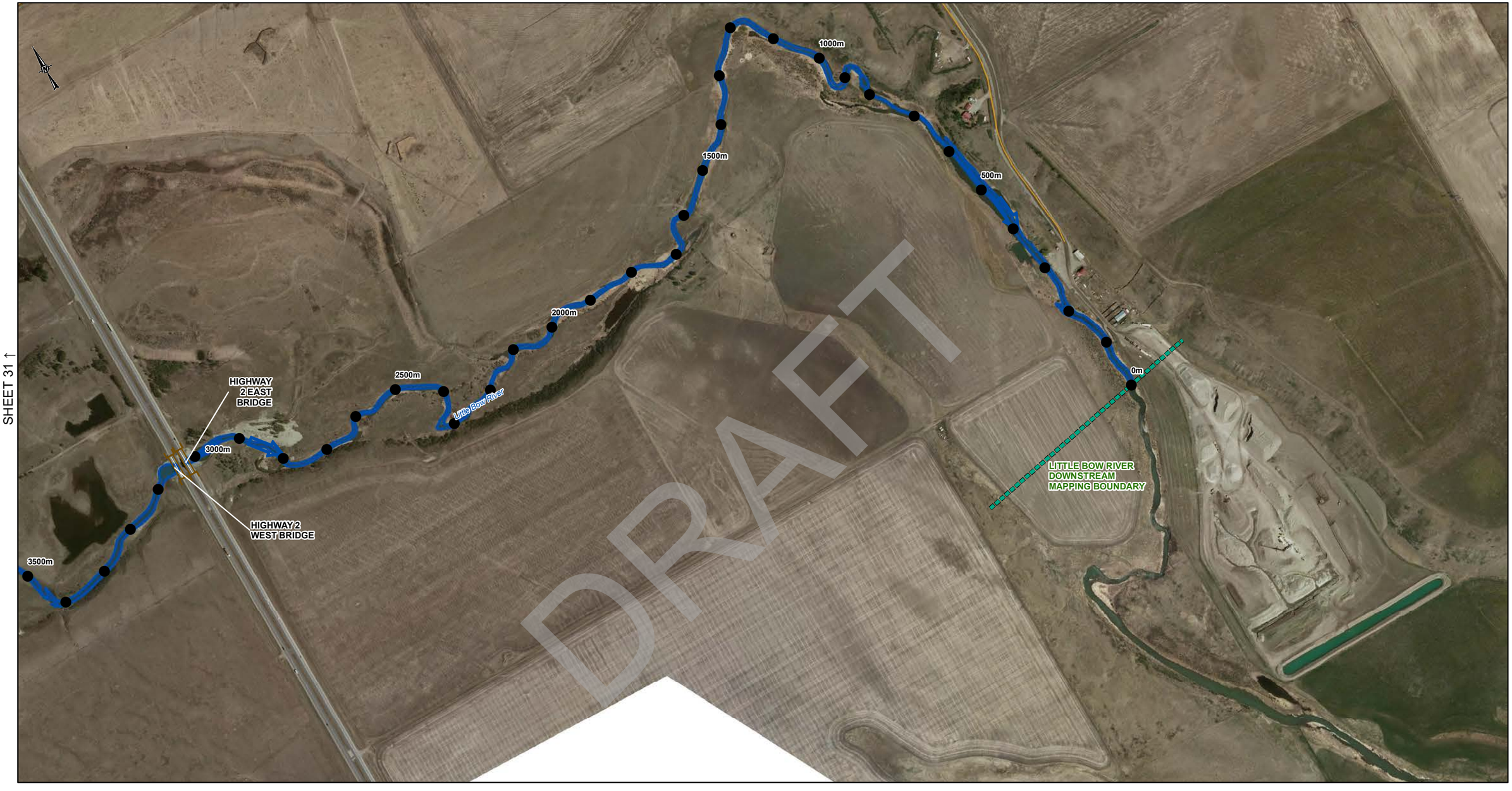
Classification: Public

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

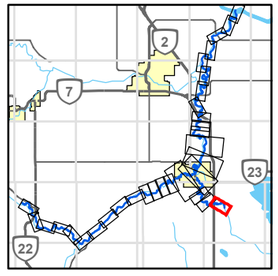
- CULVERT
- WEIR
- BRIDGE

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



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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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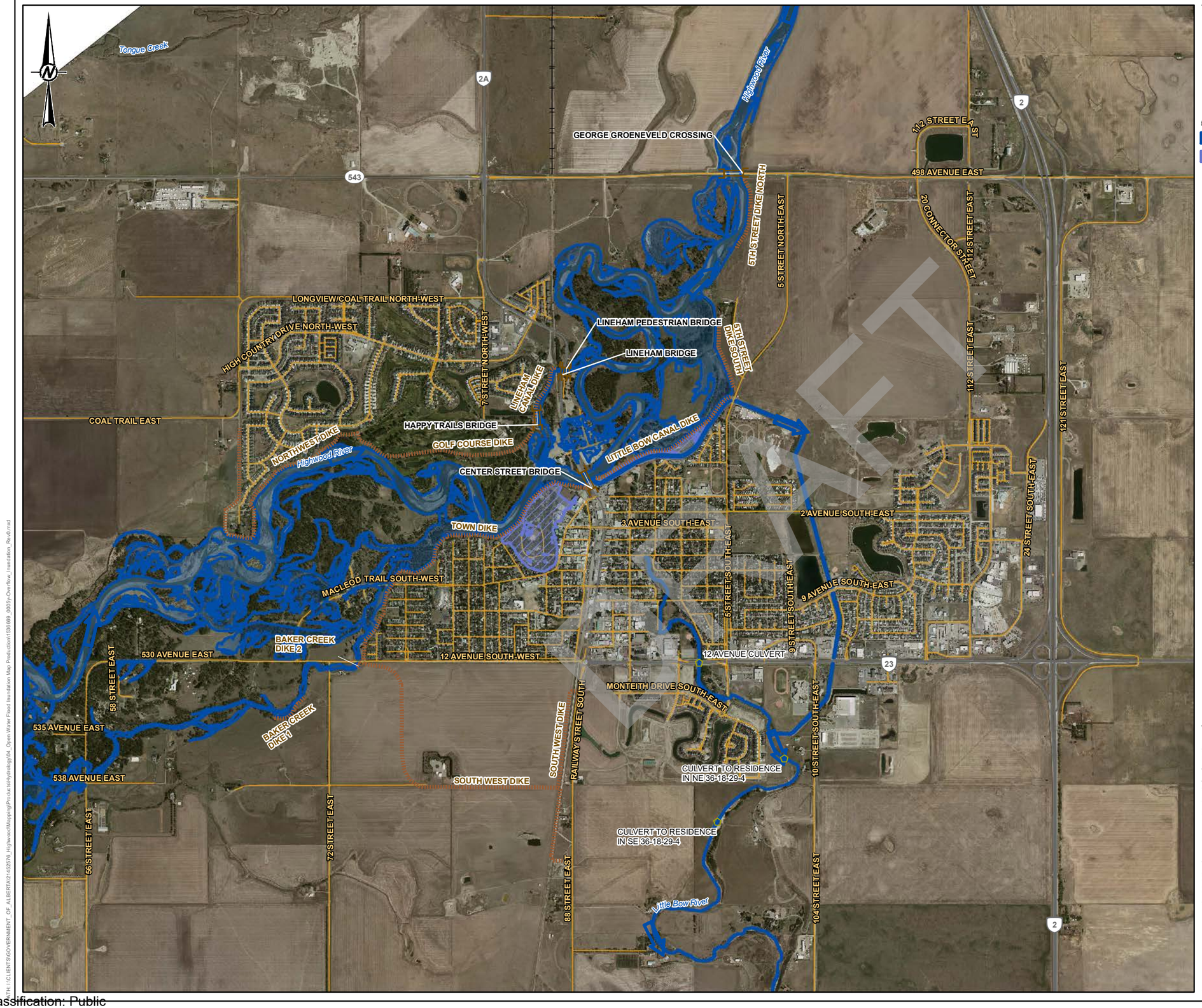


LEGEND

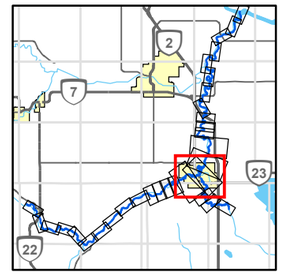
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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



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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

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

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

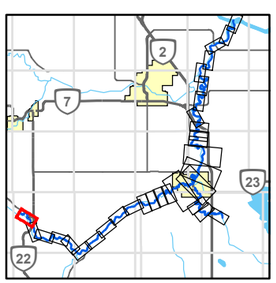
- CULVERT
- WEIR
- BRIDGE

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



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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

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010r-Inundation_Rev0.mxd

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

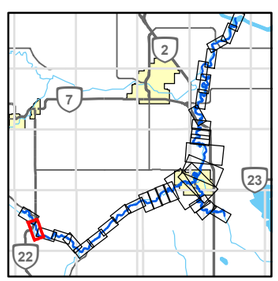
- CULVERT
- WEIR
- BRIDGE

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



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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
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
RS 84284
RS 84201
RS 84124
RS 84042
RS 83952
RS 83924
RS 83868
RS 83809
RS 83731
RS 83645
RS 83564
RS 83479
RS 83376

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XS#113
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XS#115
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XS#118
XS#119
XS#120
XS#121
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

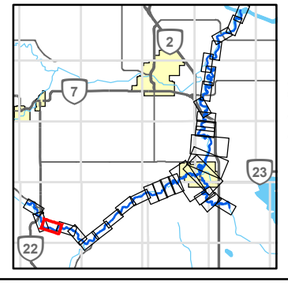
HYDRAULIC STRUCTURES

- 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



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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

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

25mm

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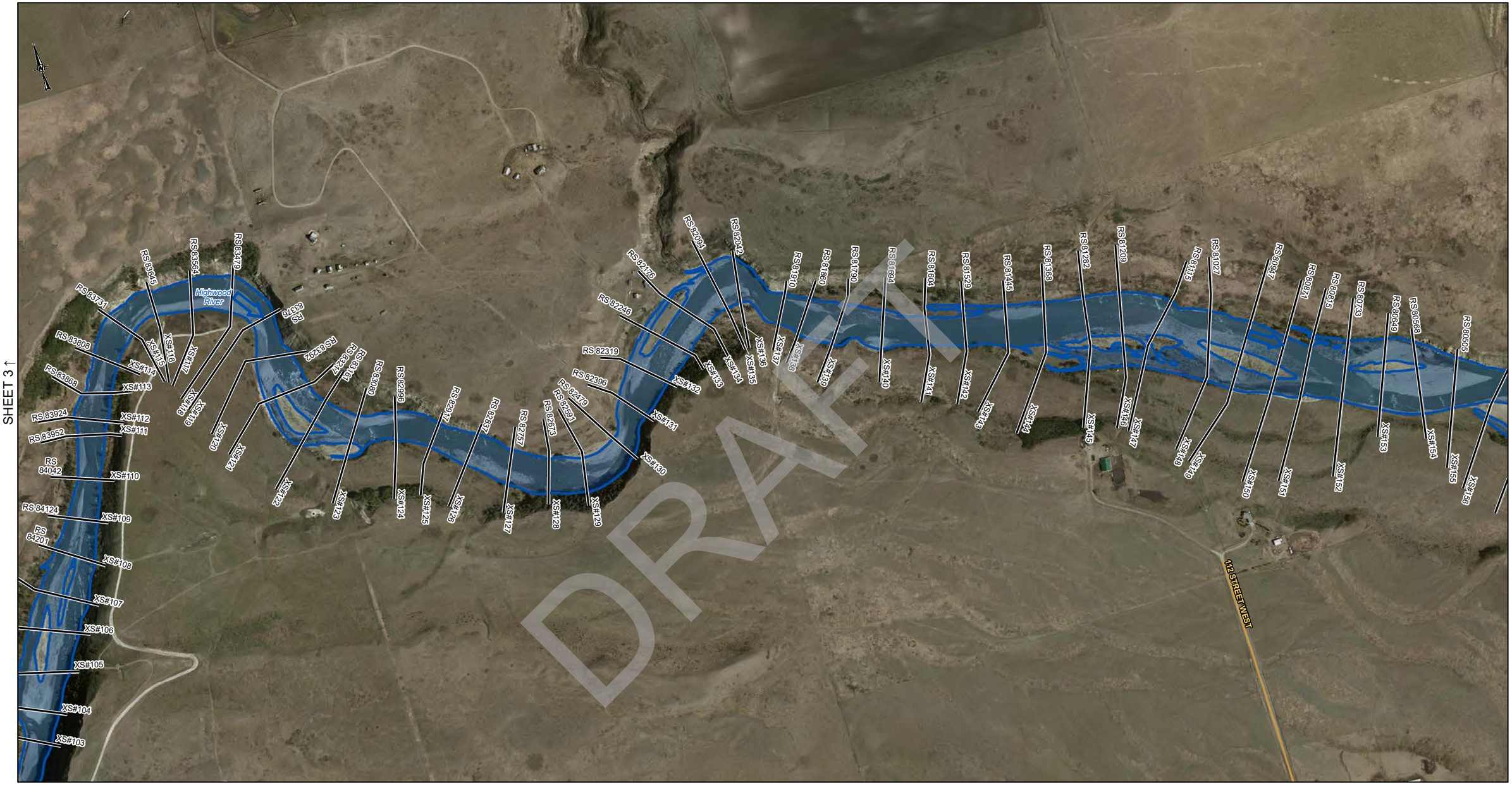
Classification: Public

SHEET 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
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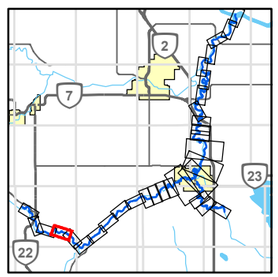
- BRIDGE

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



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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

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

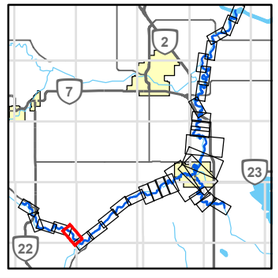
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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
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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

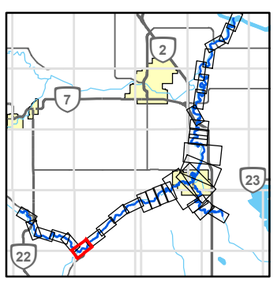
- CULVERT
- WEIR
- BRIDGE

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



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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

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

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

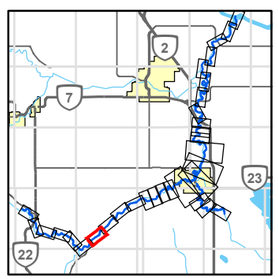
- CULVERT
- WEIR
- BRIDGE

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



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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
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

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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

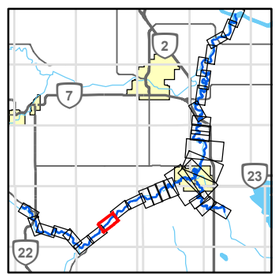
- CULVERT
- WEIR
- BRIDGE

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



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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

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

25mm

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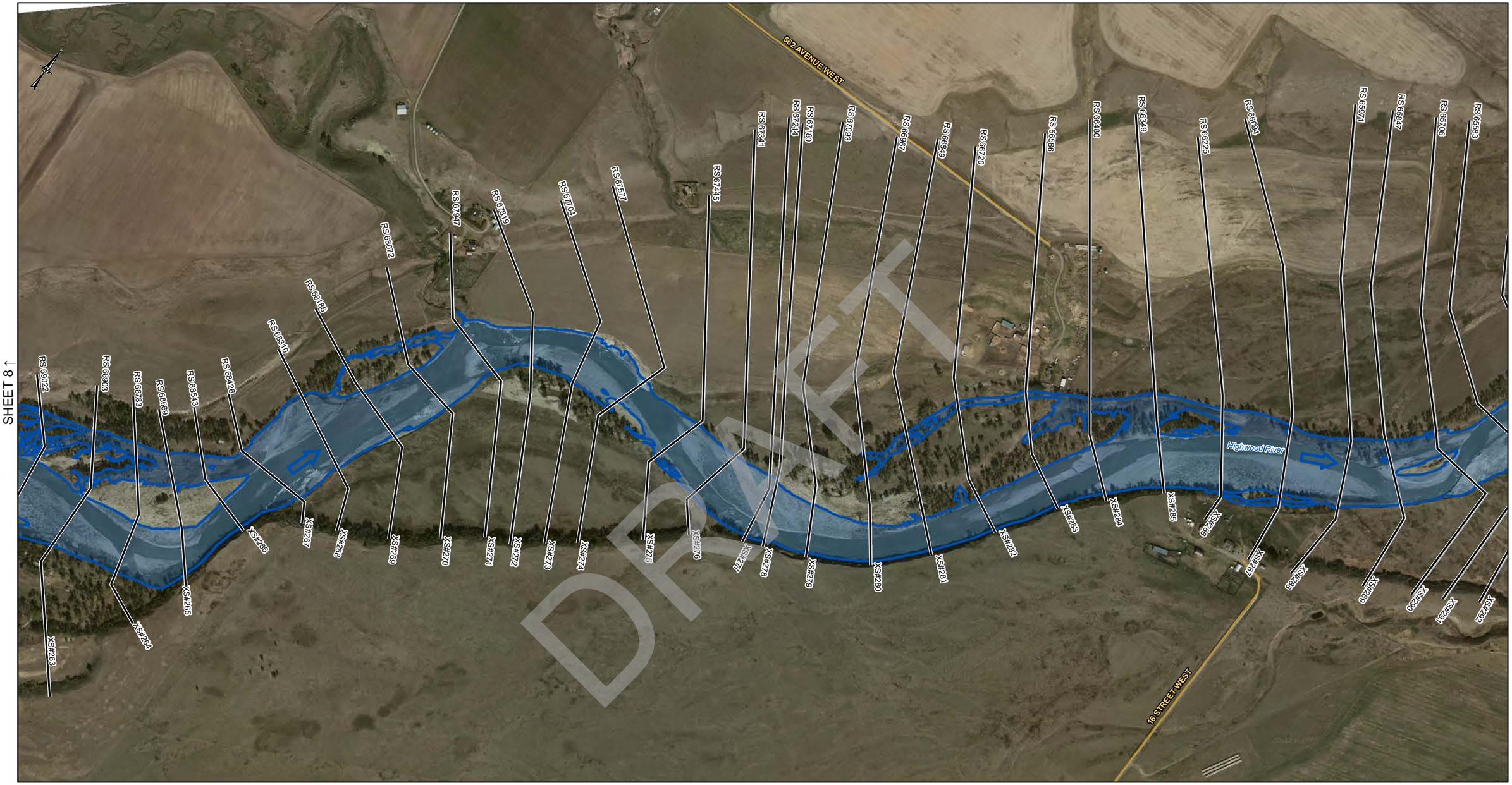
Classification: Public



DRAFT

LEGEND

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

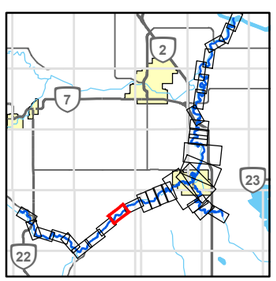
HYDRAULIC STRUCTURES

- 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



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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
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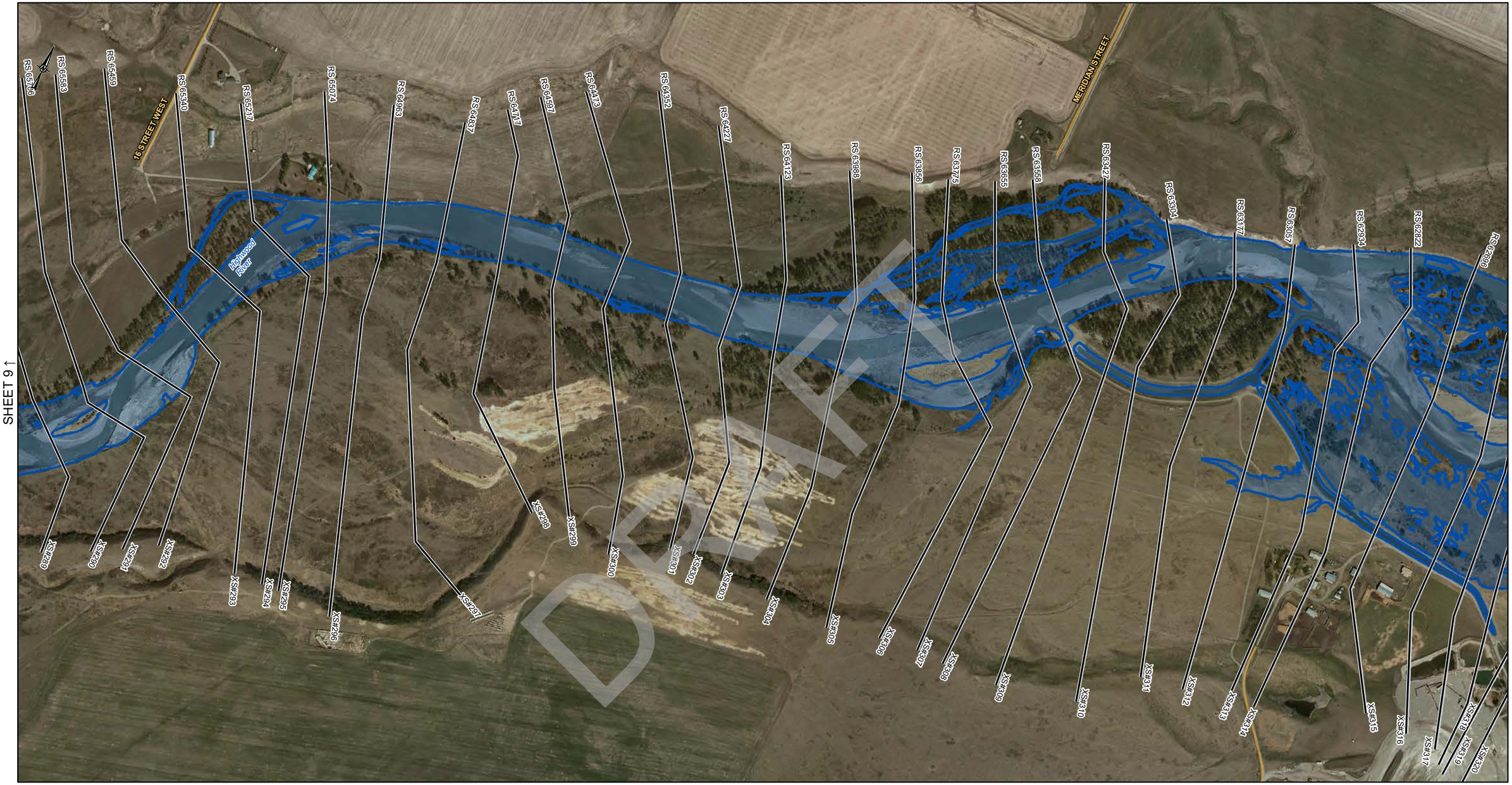
Classification: Public

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

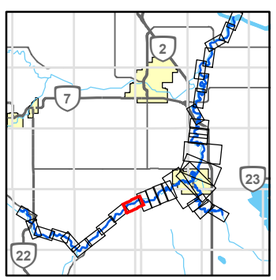
- CULVERT
- WEIR
- BRIDGE

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



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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 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

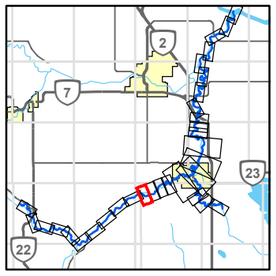
- CULVERT
- WEIR
- BRIDGE

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



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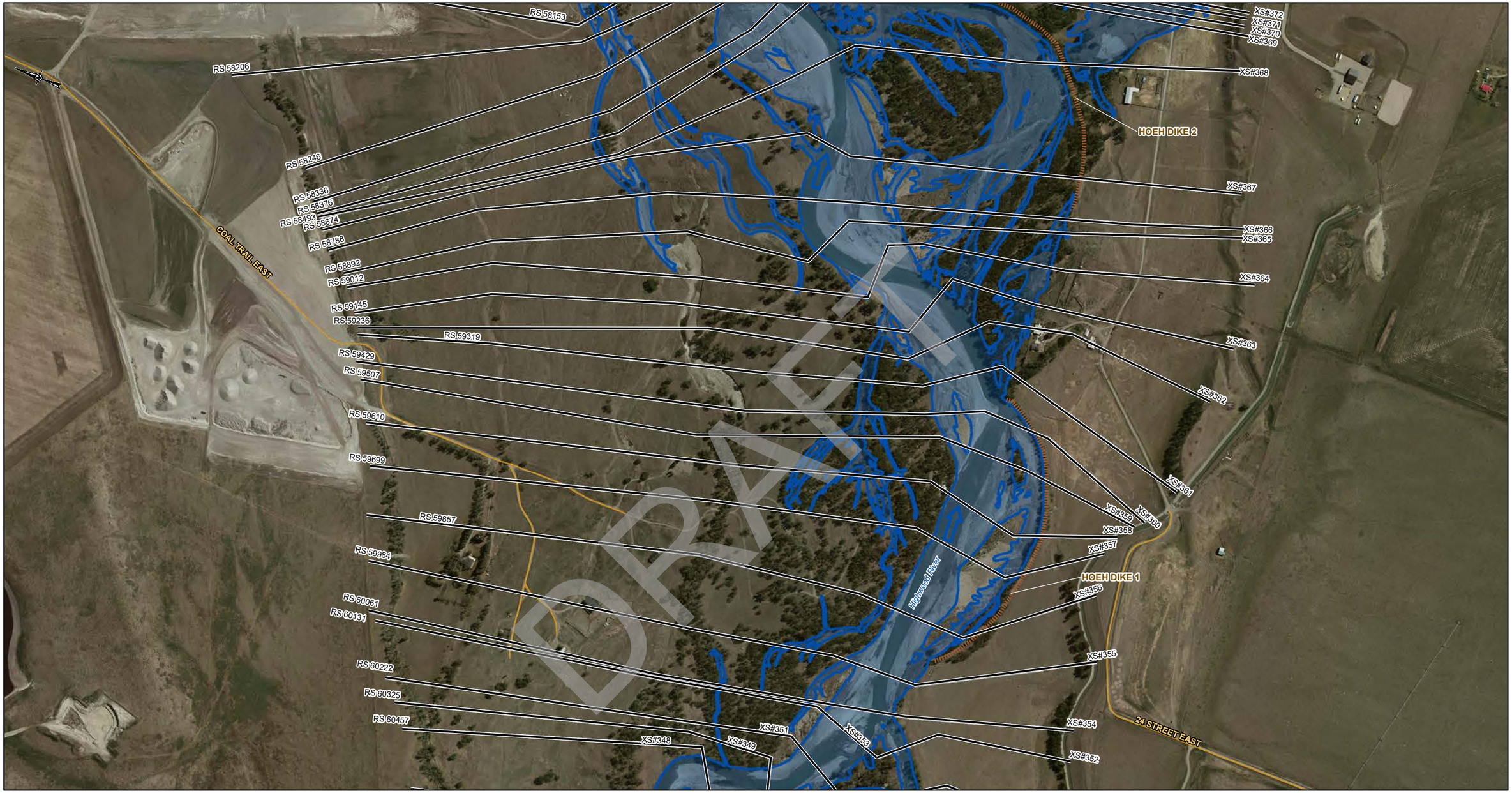
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

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

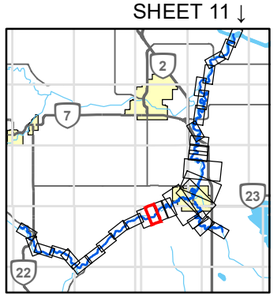
10-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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

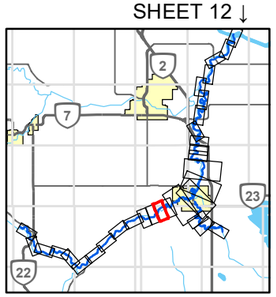
HYDRAULIC STRUCTURES

- 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



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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

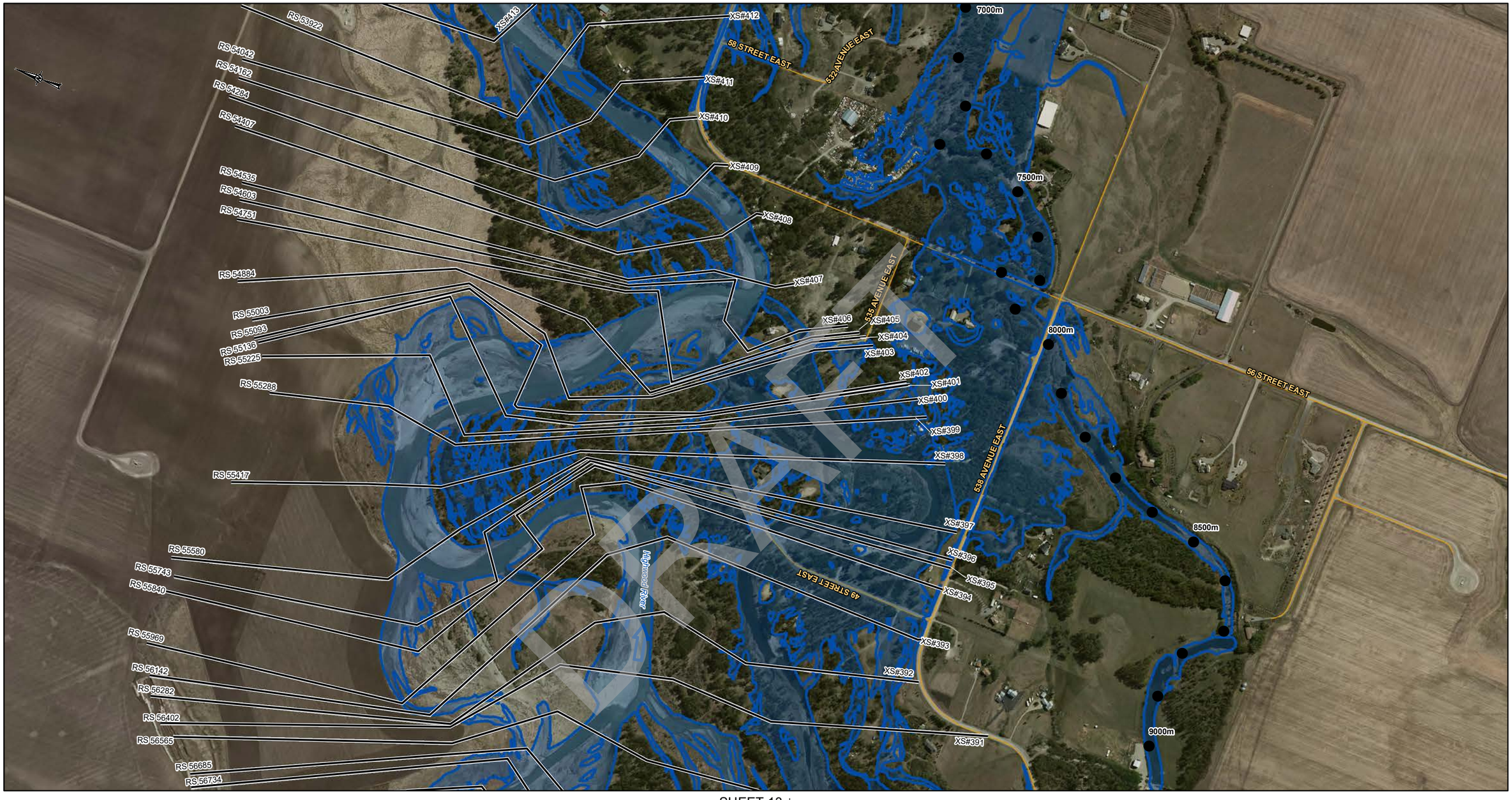
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0010y-Inundation_Rev0.mxd

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

25mm

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

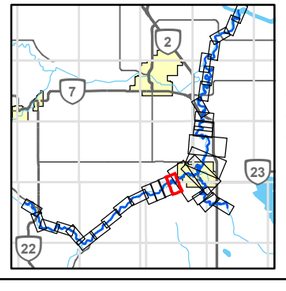
HYDRAULIC STRUCTURES

- 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



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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 14 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

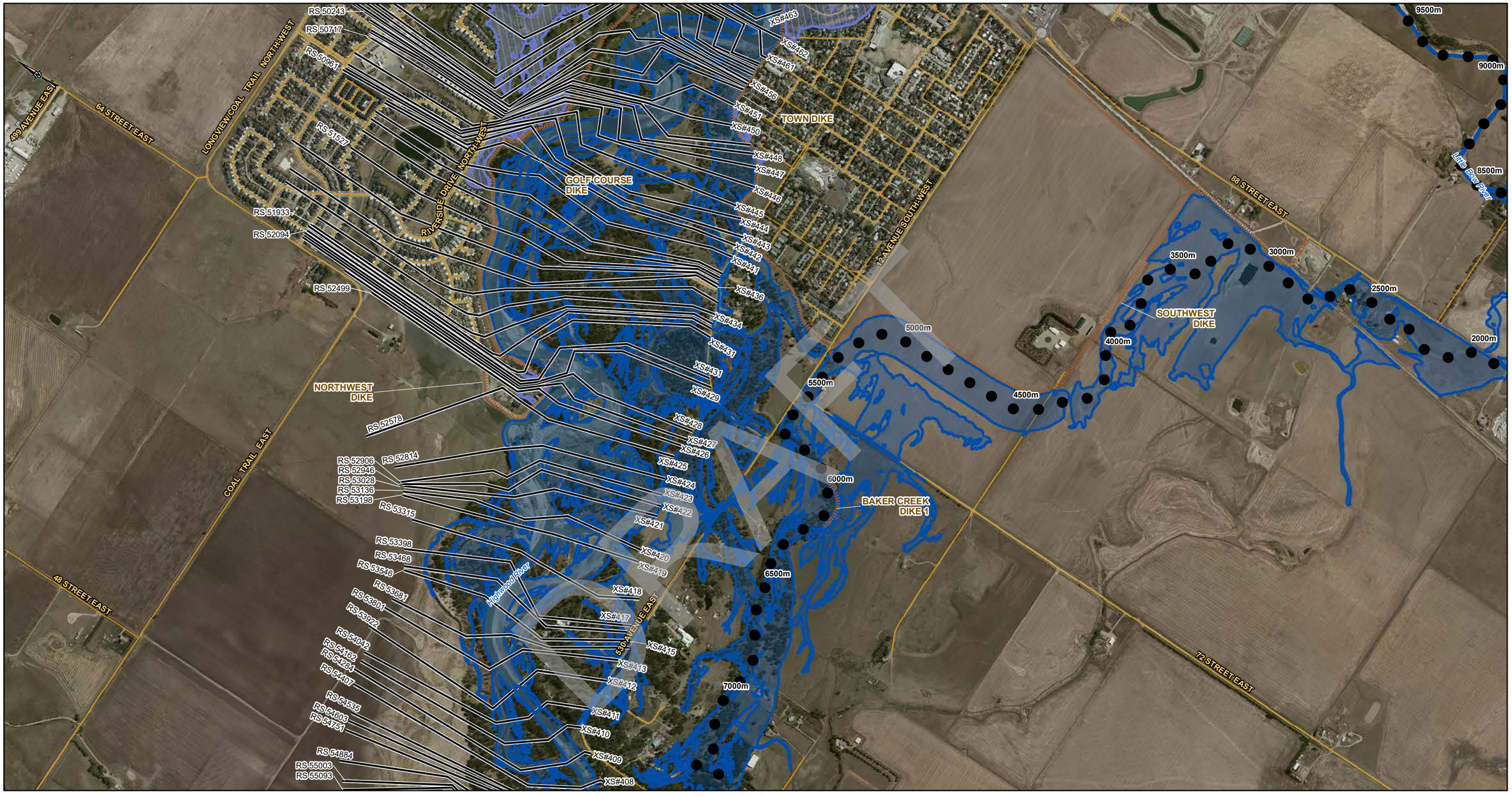
25mm

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

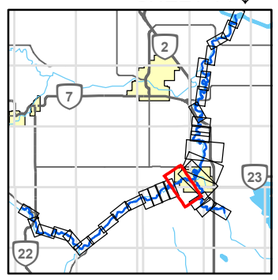
- CULVERT
- WEIR
- BRIDGE

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



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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
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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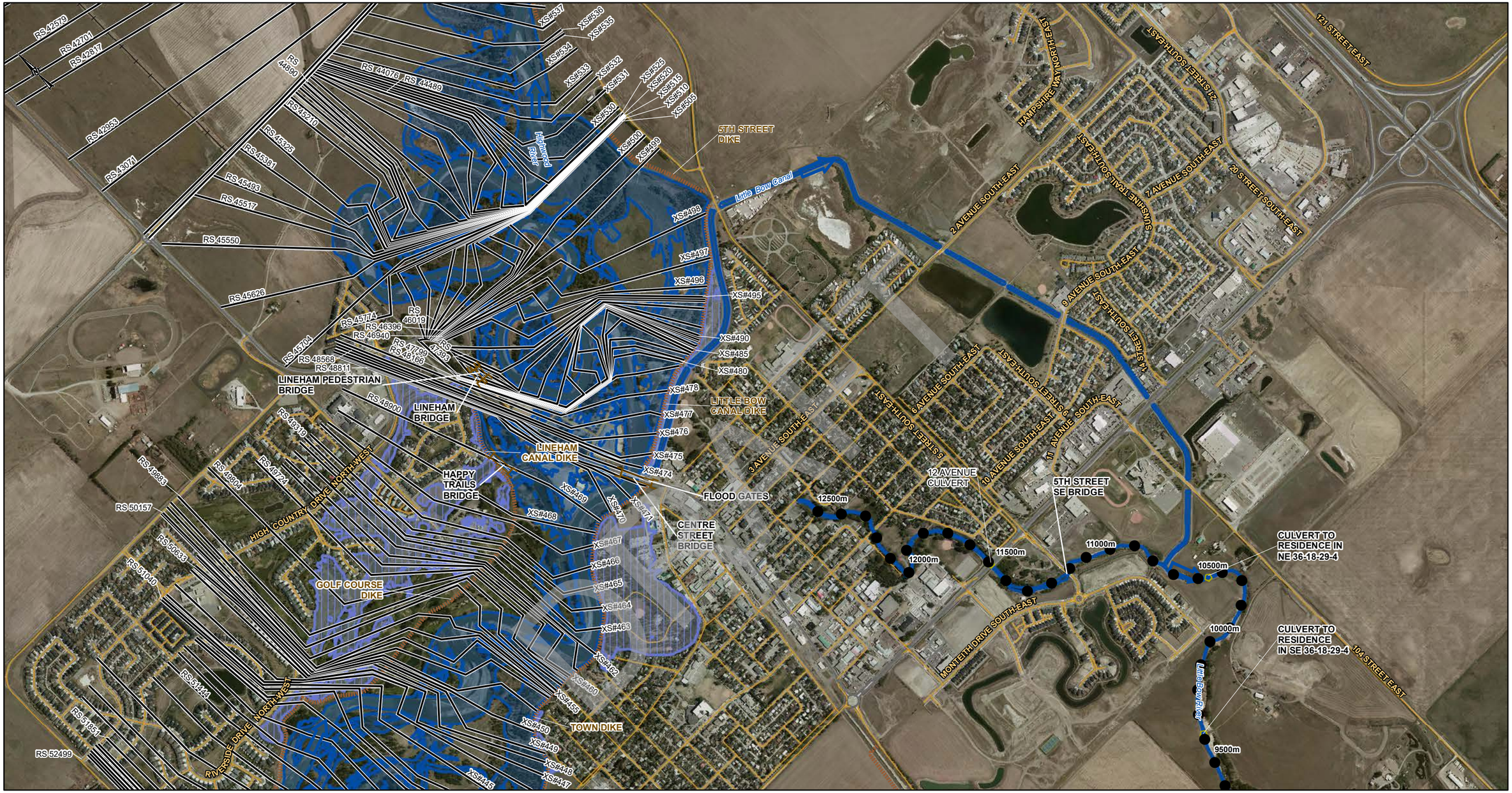
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0010y-Inundation_Rev0.mxd

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

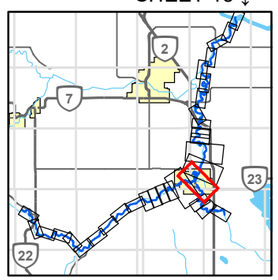
10-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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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RS 40792
RS 40814
RS 41084
RS 41274
RS 41514
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RS 41873
RS 41981
RS 42105
RS 42224
RS 42343
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RS 42579
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RS 42817
RS 42953
RS 43071
RS 43189
RS 43307
RS 43425
RS 43543
RS 43661
RS 43779
RS 43897
RS 44015
RS 44133
RS 44251
RS 44369
RS 44487
RS 44605
RS 44723
RS 44841
RS 44959
RS 45077
RS 45195
RS

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

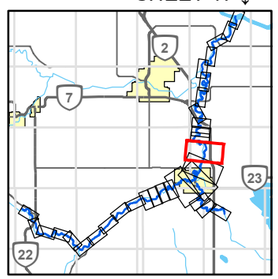
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 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

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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

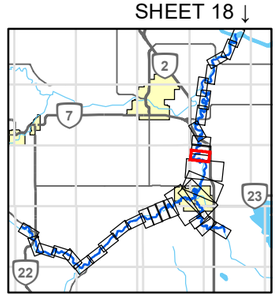
10-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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

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

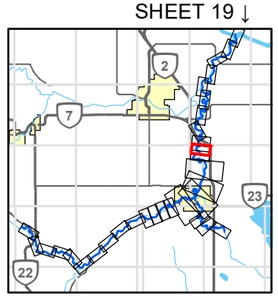
- CULVERT
- WEIR
- BRIDGE

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 ↓



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

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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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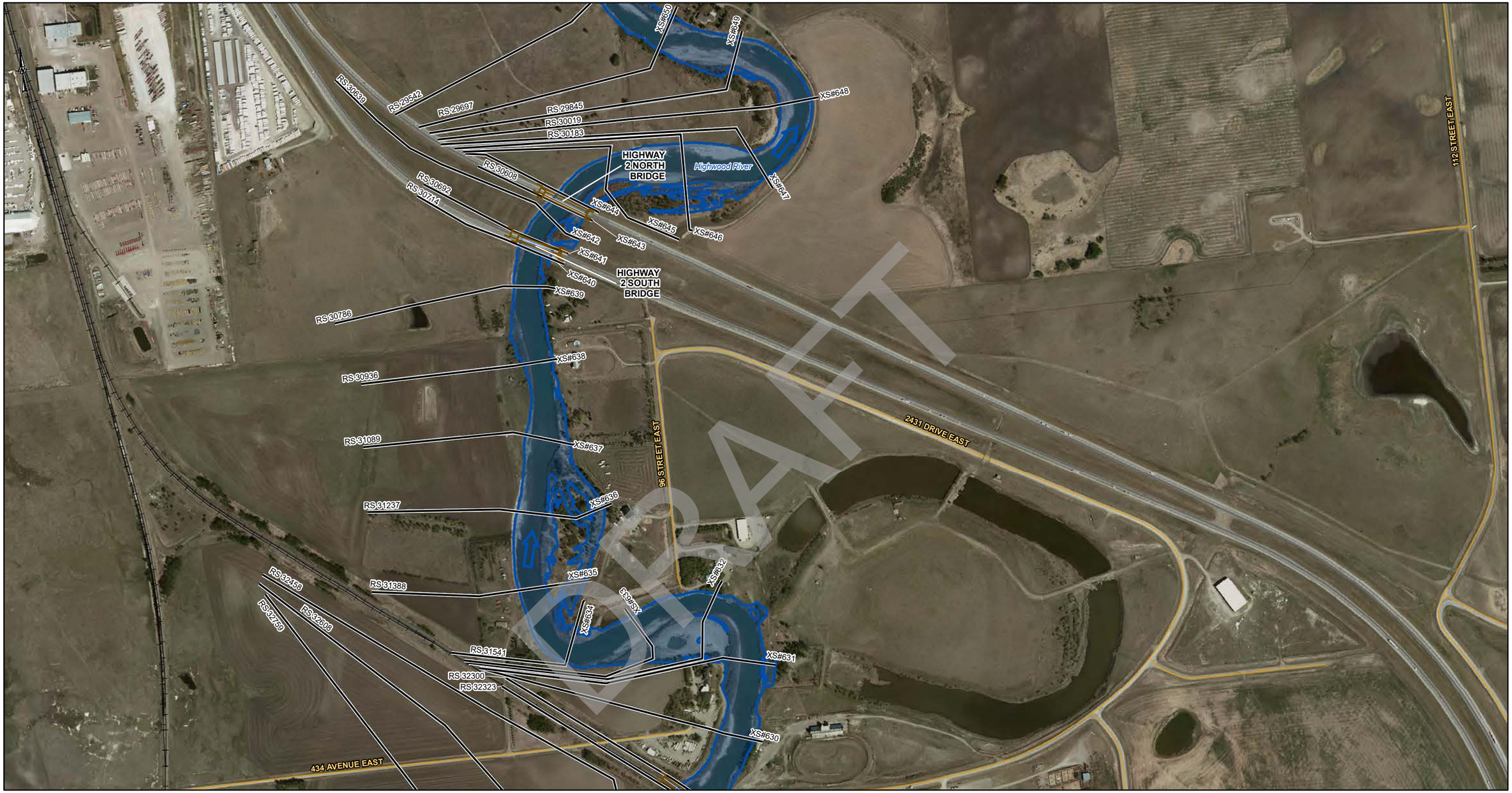
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0010y-Inundation_Rev0.mxd

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

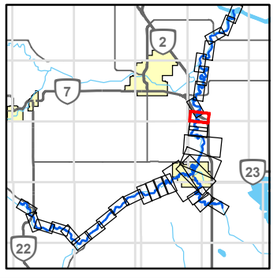
HYDRAULIC STRUCTURES

- 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



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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 21 of 33

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_2019\y-Inundation_Rev0.mxd

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25mm
0

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

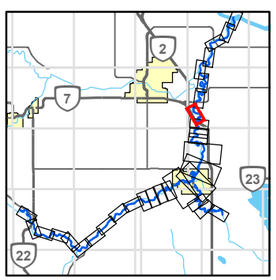
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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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 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

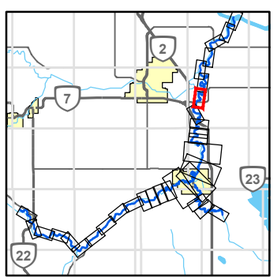
- CULVERT
- WEIR
- BRIDGE

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



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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

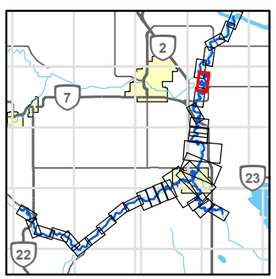
- CULVERT
- WEIR
- BRIDGE

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



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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

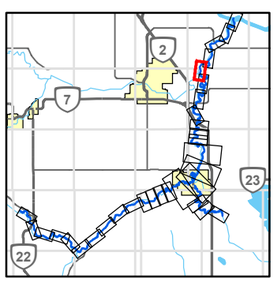
- CULVERT
- WEIR
- BRIDGE

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



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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 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

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25mm
0

Classification: Public



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

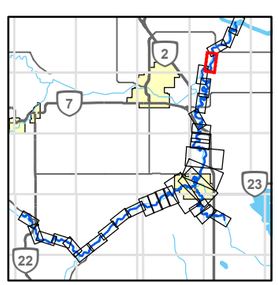
HYDRAULIC STRUCTURES

- 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



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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

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 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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0610r-Inundation_Rev0.mxd

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

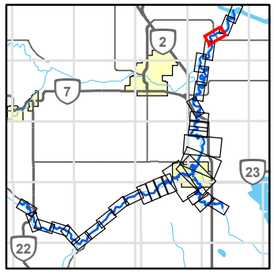
- CULVERT
- WEIR
- BRIDGE

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



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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 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

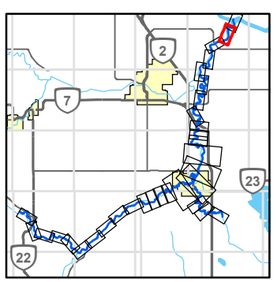
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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 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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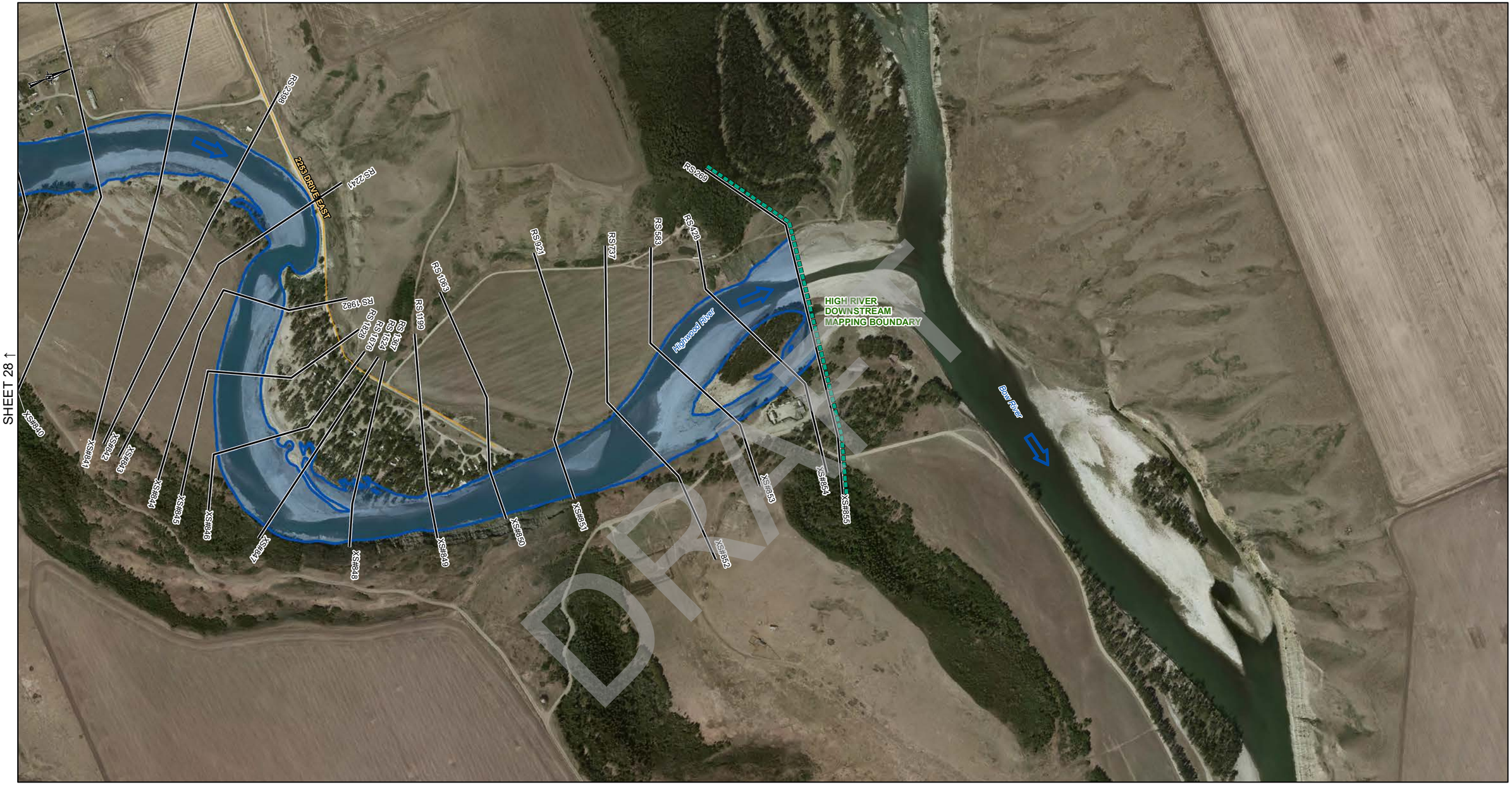
Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

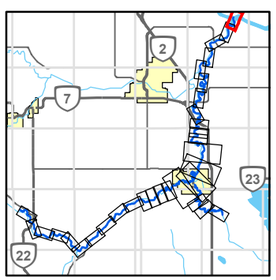
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

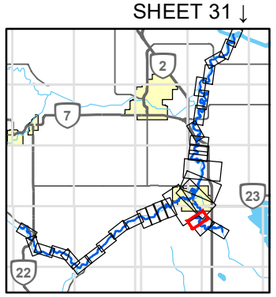
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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

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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

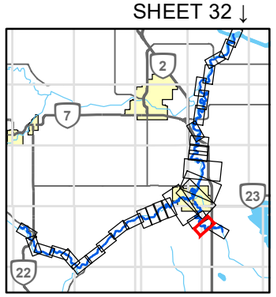
- CULVERT
- WEIR
- BRIDGE

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



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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 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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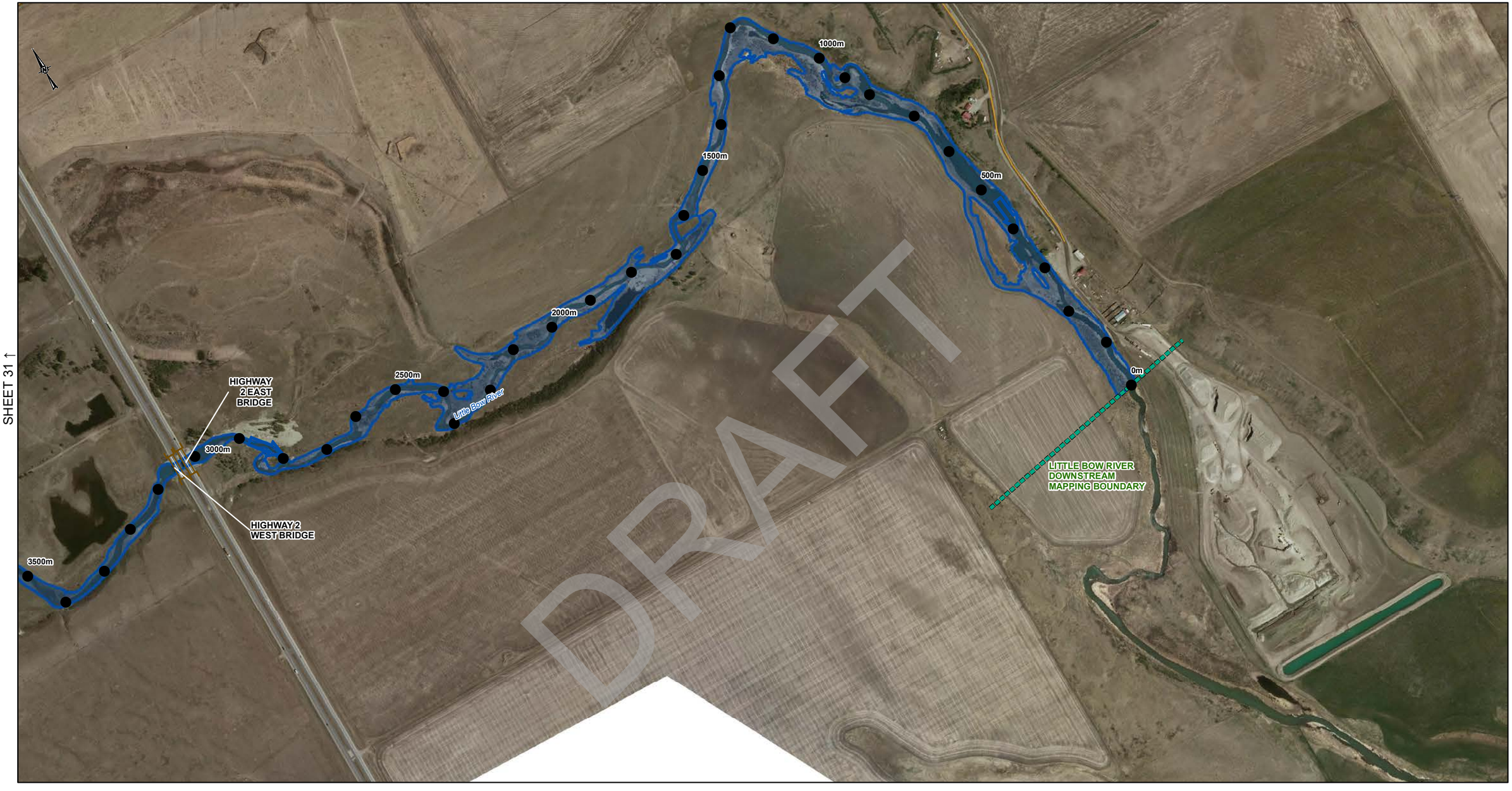
Classification: Public

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

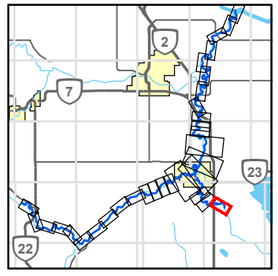
- CULVERT
- WEIR
- BRIDGE

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



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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 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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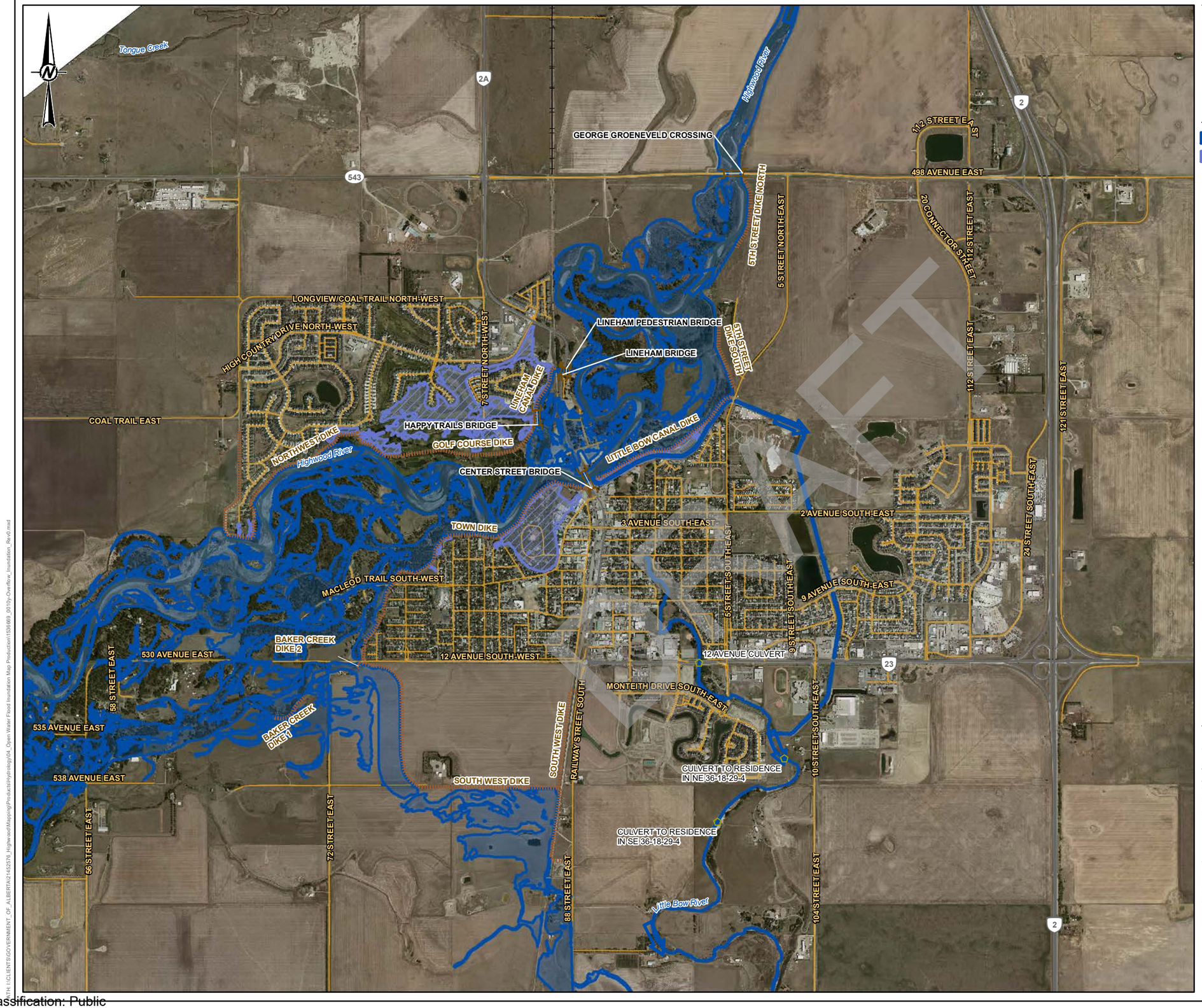
Classification: Public



LEGEND

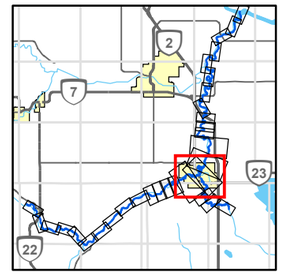
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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



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REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
10 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
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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

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

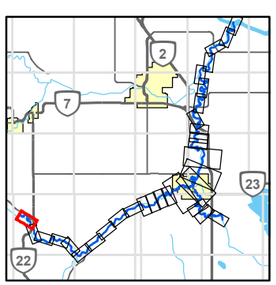
- CULVERT
- WEIR
- BRIDGE

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



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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 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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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

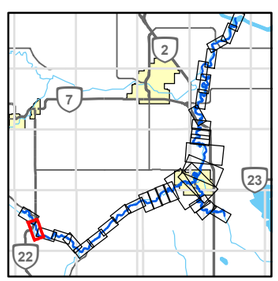
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

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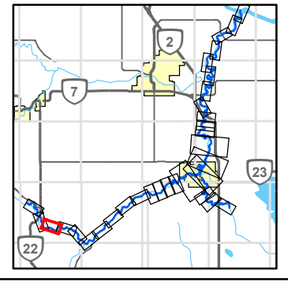
20-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

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



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YYYY-MM-DD	2022-03-31
DESIGNED	PT
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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

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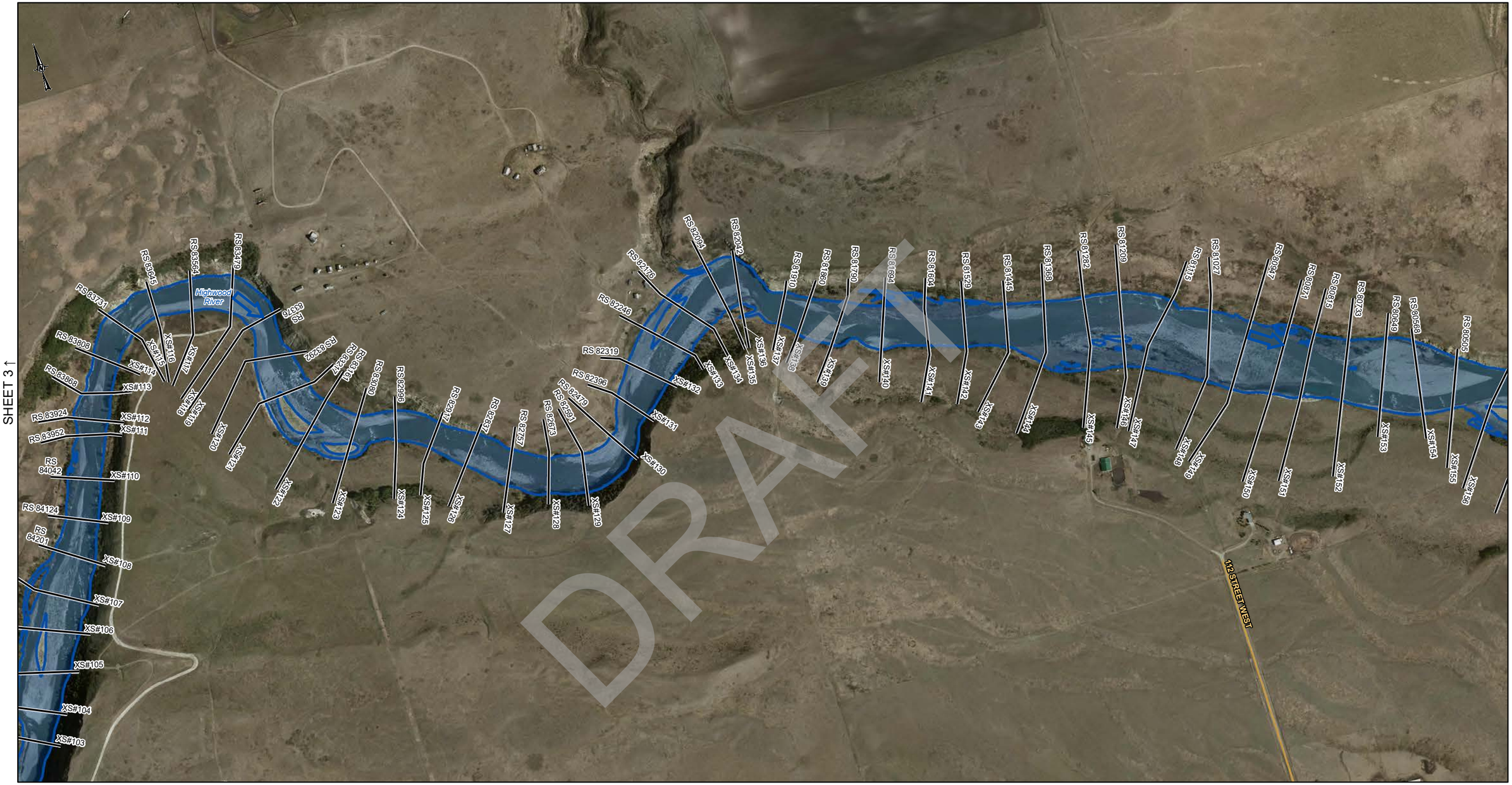
Classification: Public

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

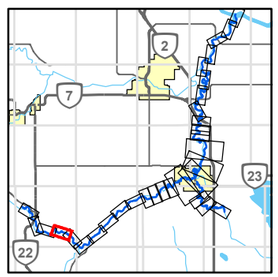
- CULVERT
- WEIR
- BRIDGE

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



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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 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



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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

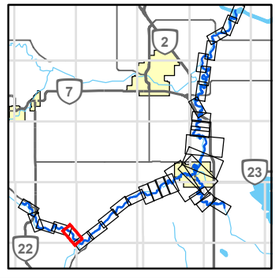
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

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

LEGEND

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

HYDRAULIC STRUCTURES

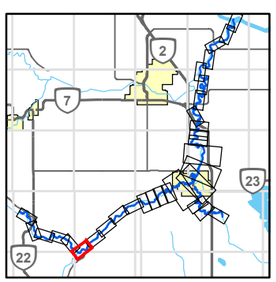
- CULVERT
- WEIR
- BRIDGE

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



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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

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

Classification: Public

SHEET 6 ↑

SHEET 8 ↓



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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

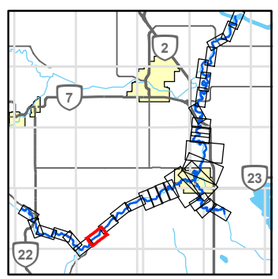
- CULVERT
- WEIR
- BRIDGE

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



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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 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



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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

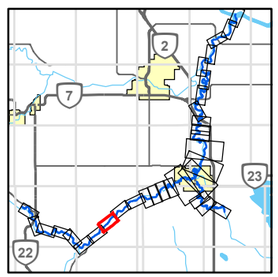
- CULVERT
- WEIR
- BRIDGE

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



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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 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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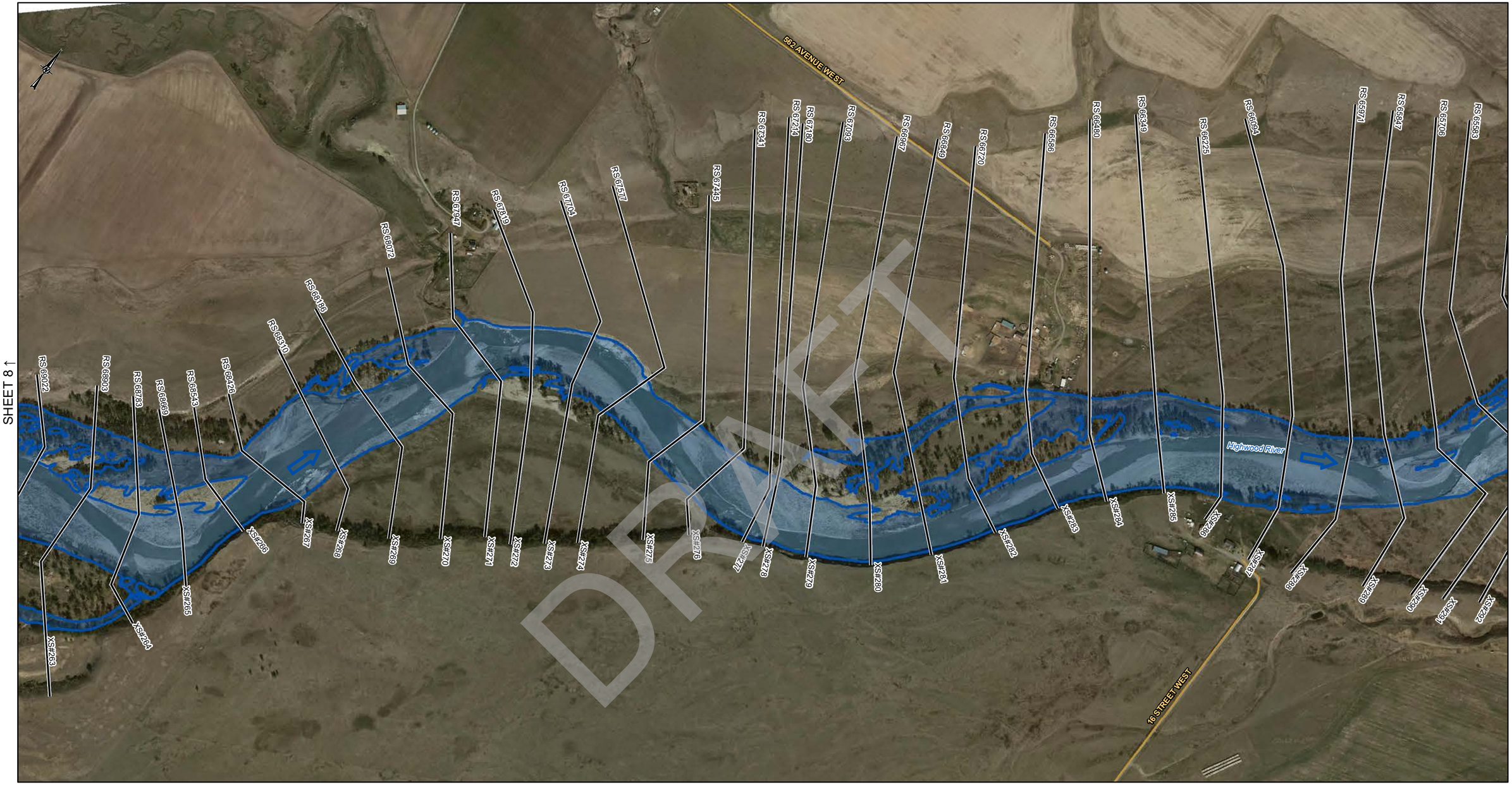
Classification: Public

SHEET 8 ↑

SHEET 10 ↓



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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

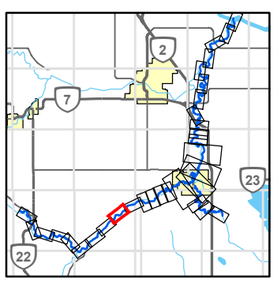
- CULVERT
- WEIR
- BRIDGE

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



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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 9 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

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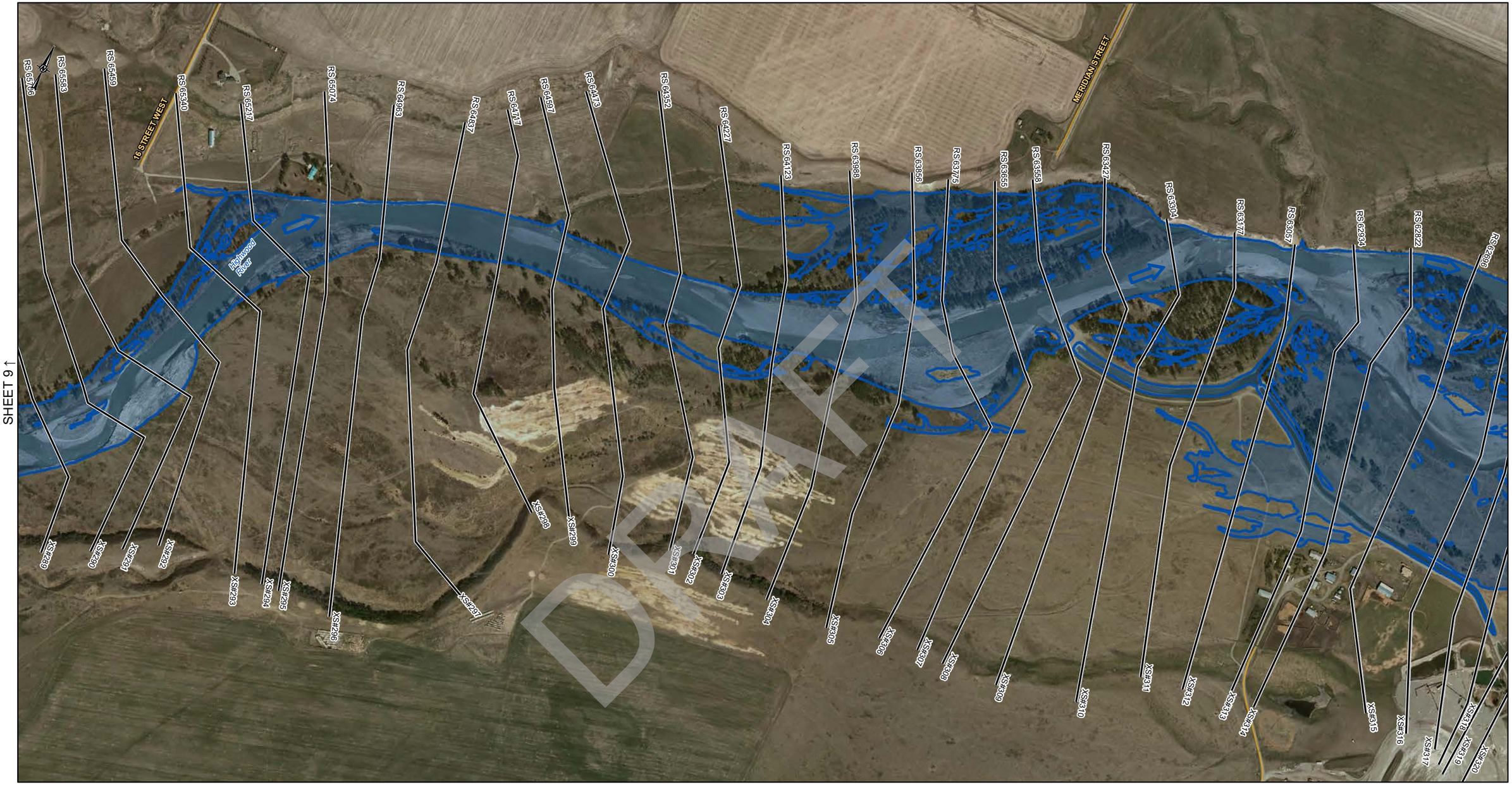
Classification: Public

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

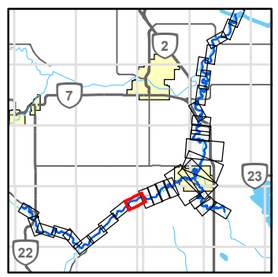
- CULVERT
- WEIR
- BRIDGE

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



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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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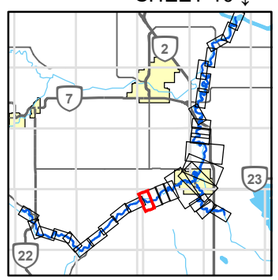
Classification: Public

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

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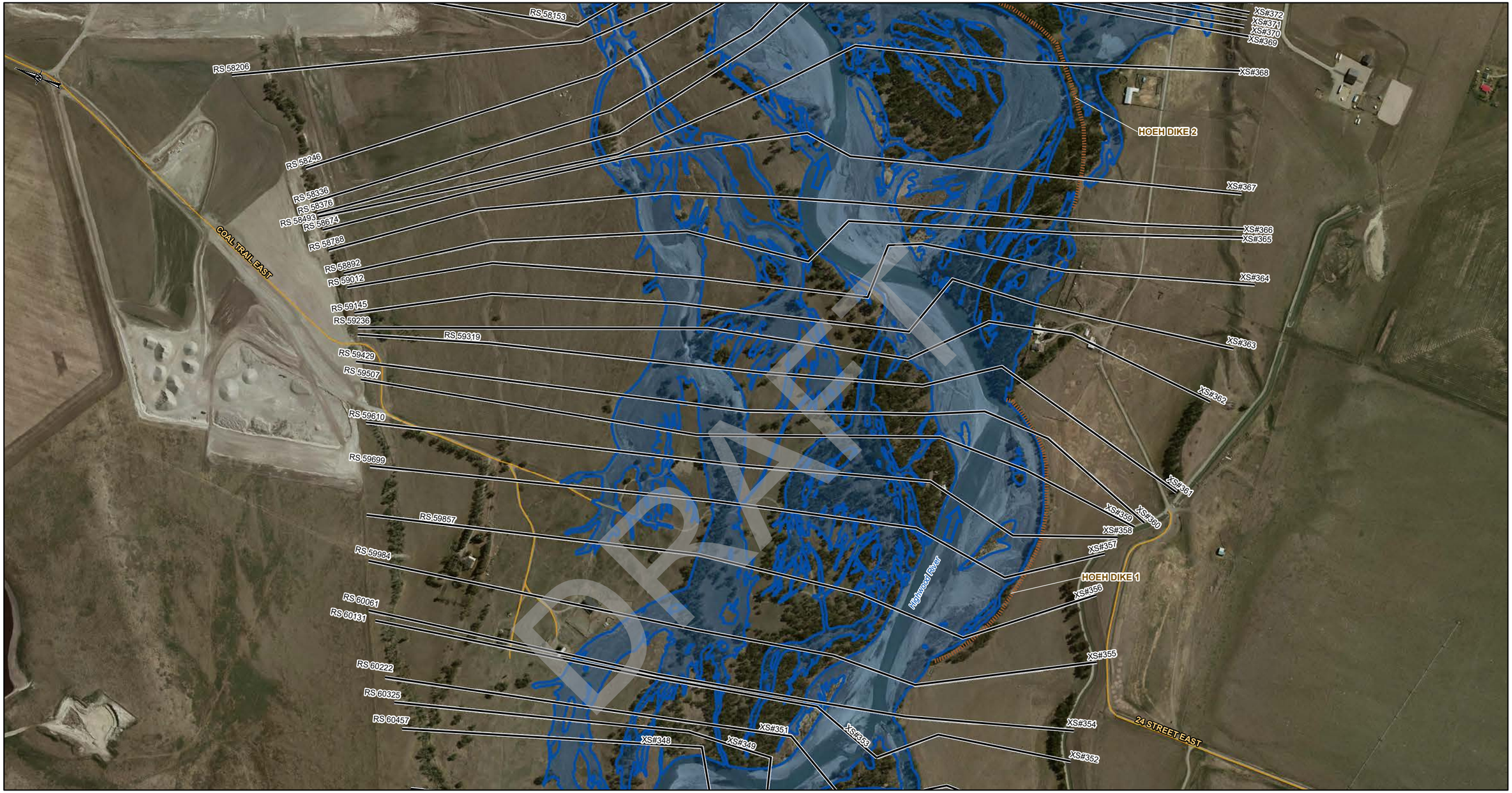
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0020y-Inundation_Rev0.mxd

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

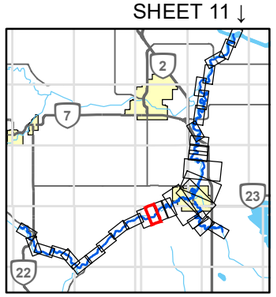
- CULVERT
- WEIR
- BRIDGE

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



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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

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

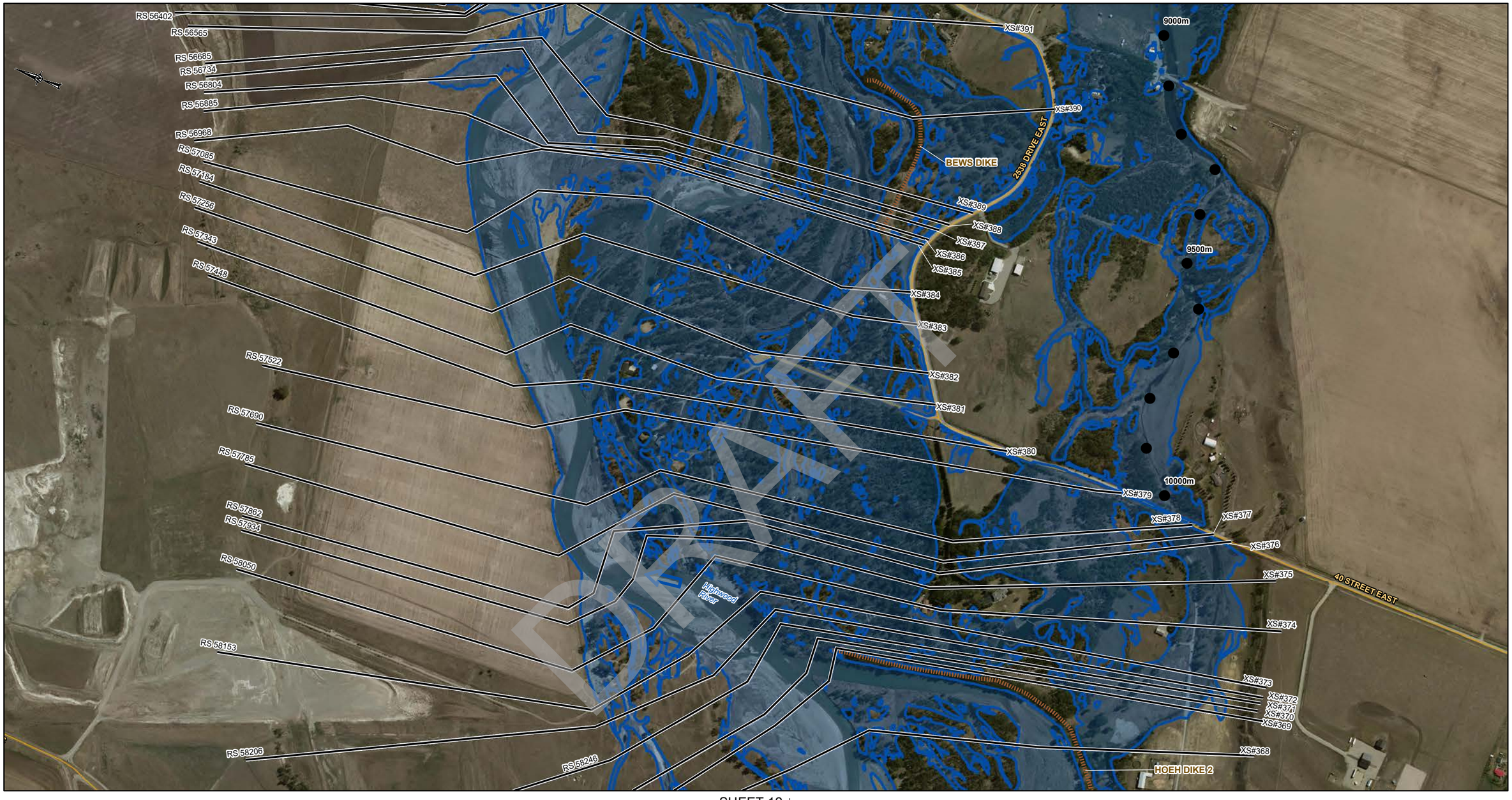
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 14 ↑



LEGEND

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

HYDRAULIC STRUCTURES

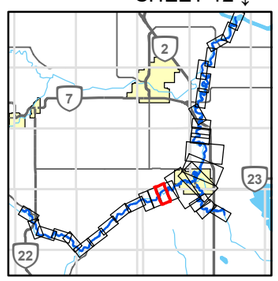
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 13 of 33

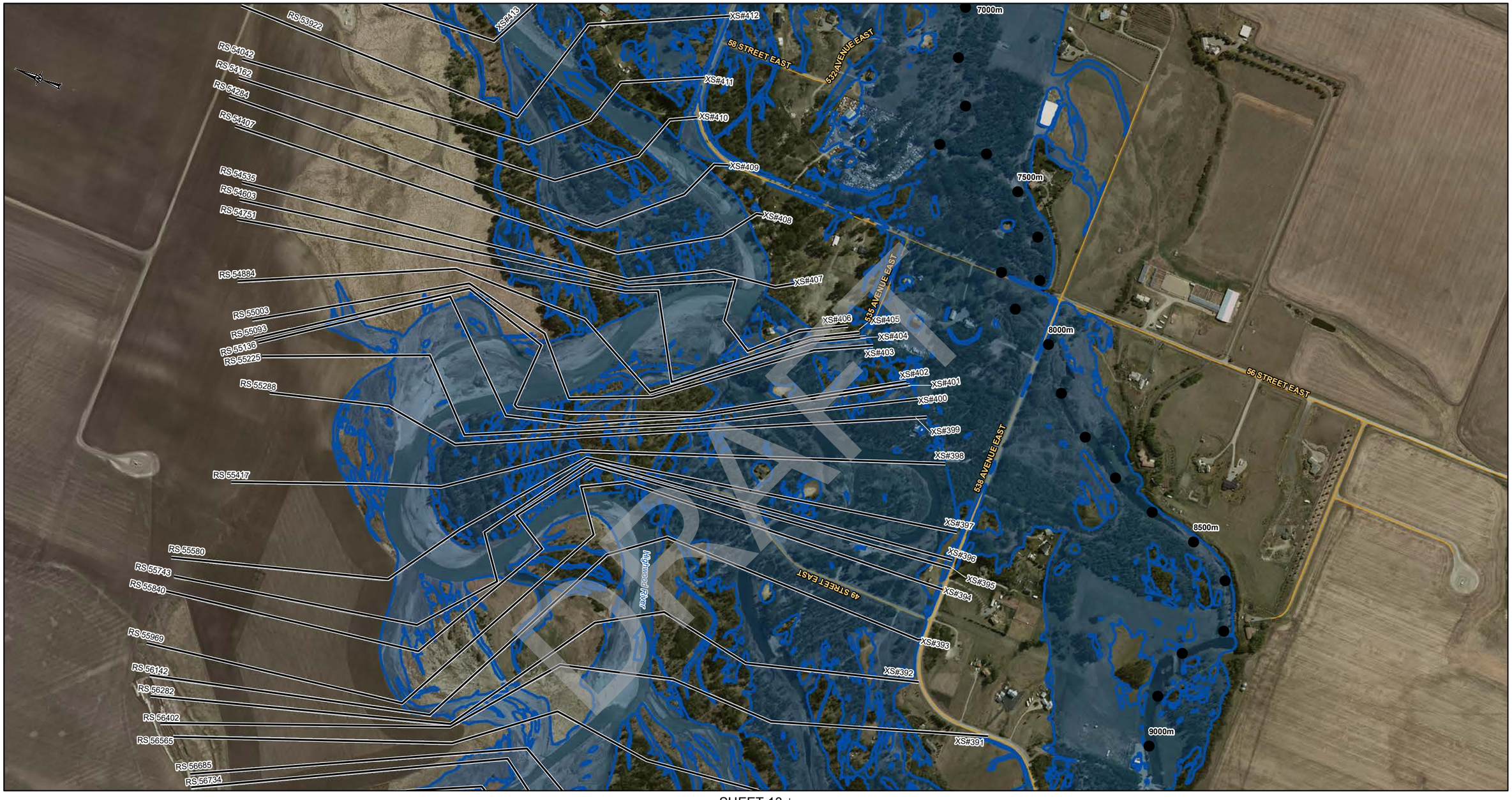
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0029y-Inundation_Rev0.mxd

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

25mm

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

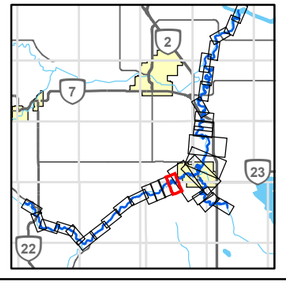
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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
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

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25mm

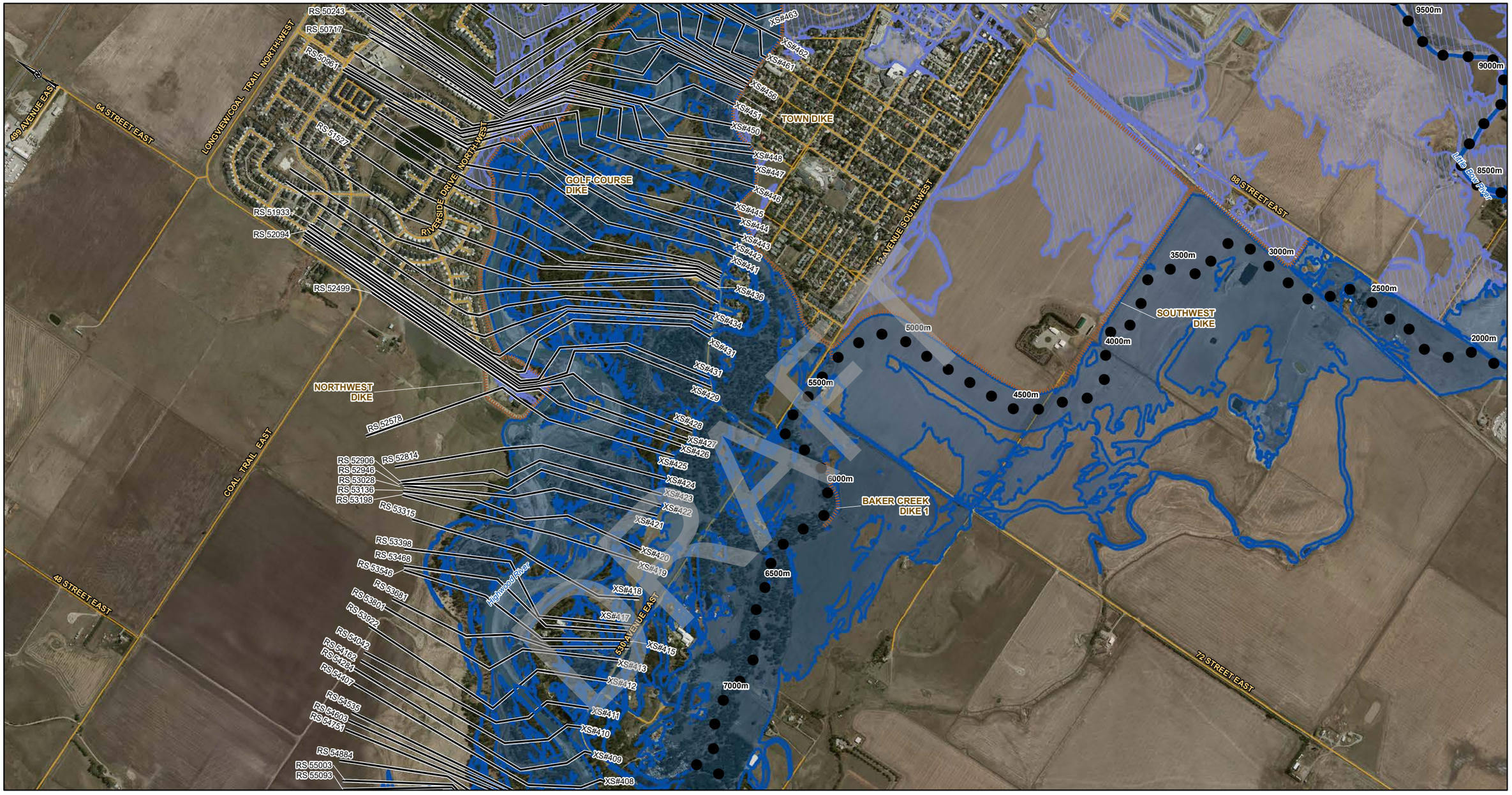
DRAFT

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

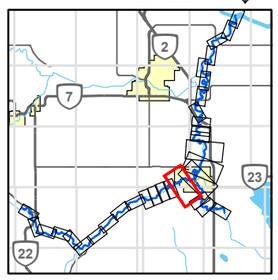
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

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

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25mm

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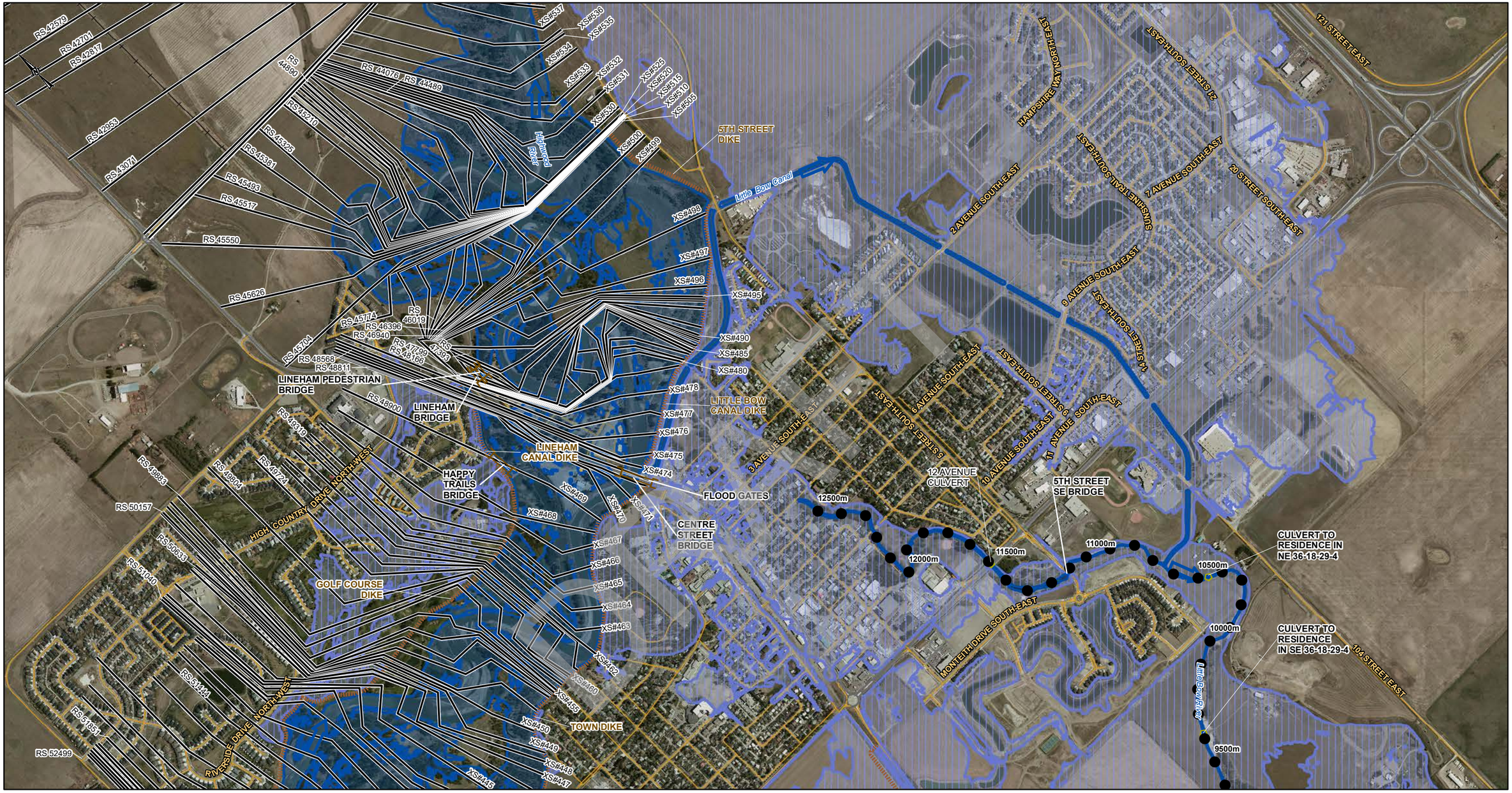
Classification: Public

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

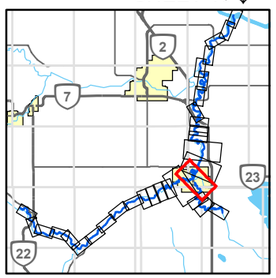
20-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

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

SHEET 15 ↓



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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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25mm

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Classification: Public

SHEET 18 ↑



SHEET 16 ↓

LEGEND

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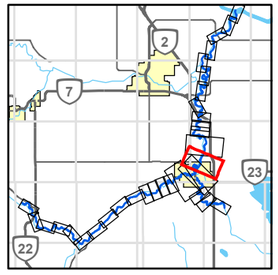
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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



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

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25mm

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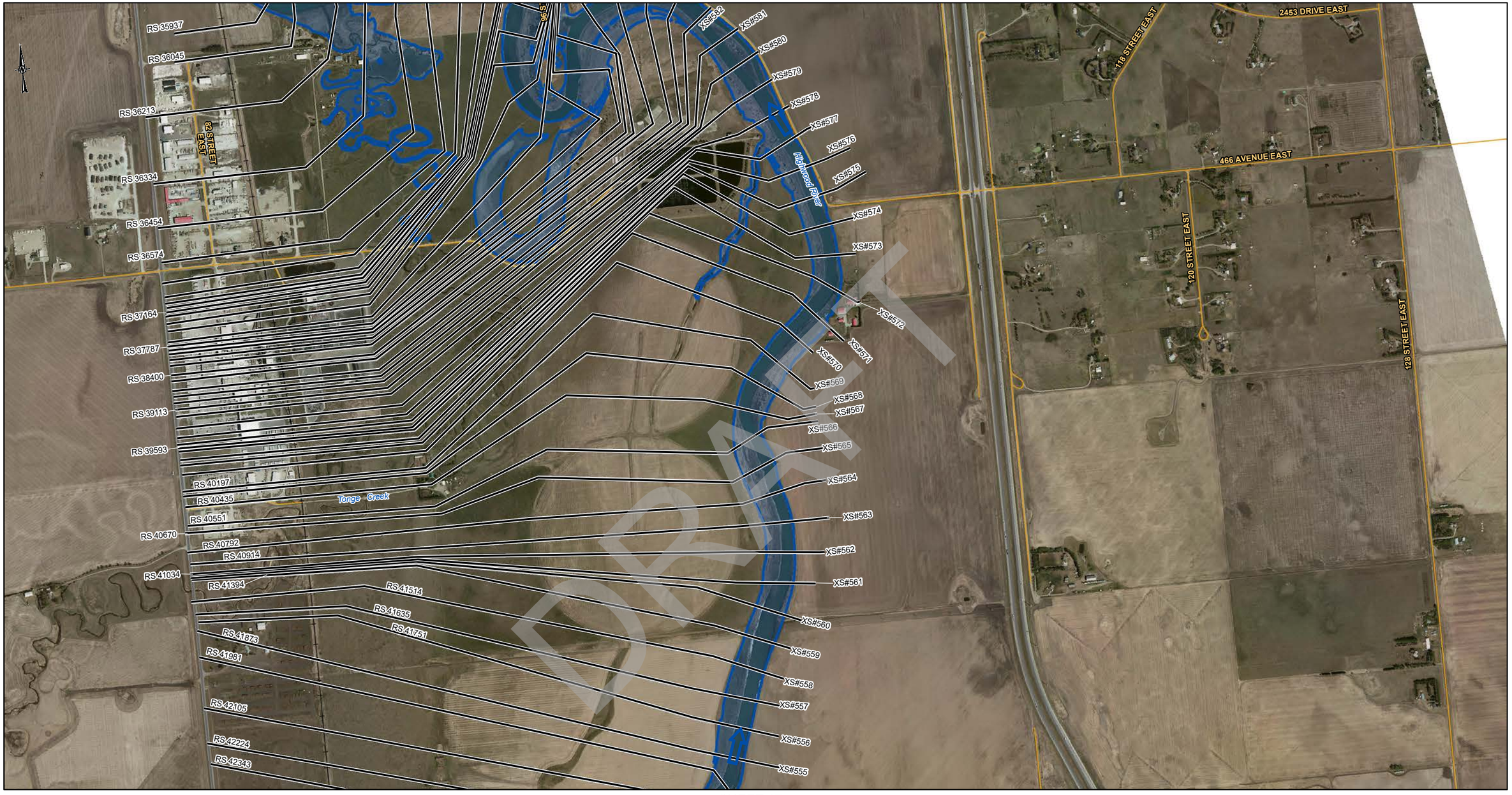
Classification: Public

SHEET 19 ↑



DRAFT

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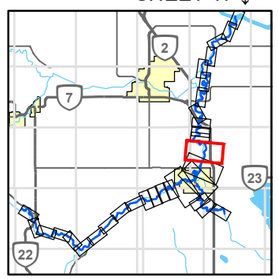
DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 17 ↓



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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 18 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2020y-Inundation_Rev0.mxd

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Classification: Public

SHEET 20 ↑



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LEGEND

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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

- 20-YEAR FLOOD EXTENT
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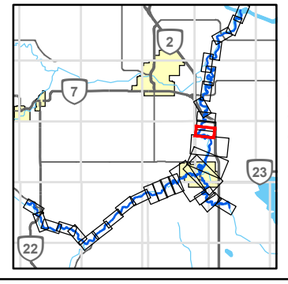
DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 446 M^3/S

SHEET 18 ↓



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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 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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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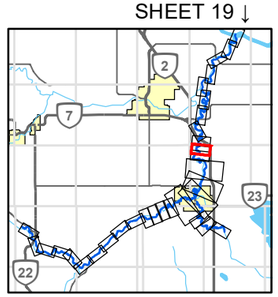
- 20-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

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

SHEET 19 ↓



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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

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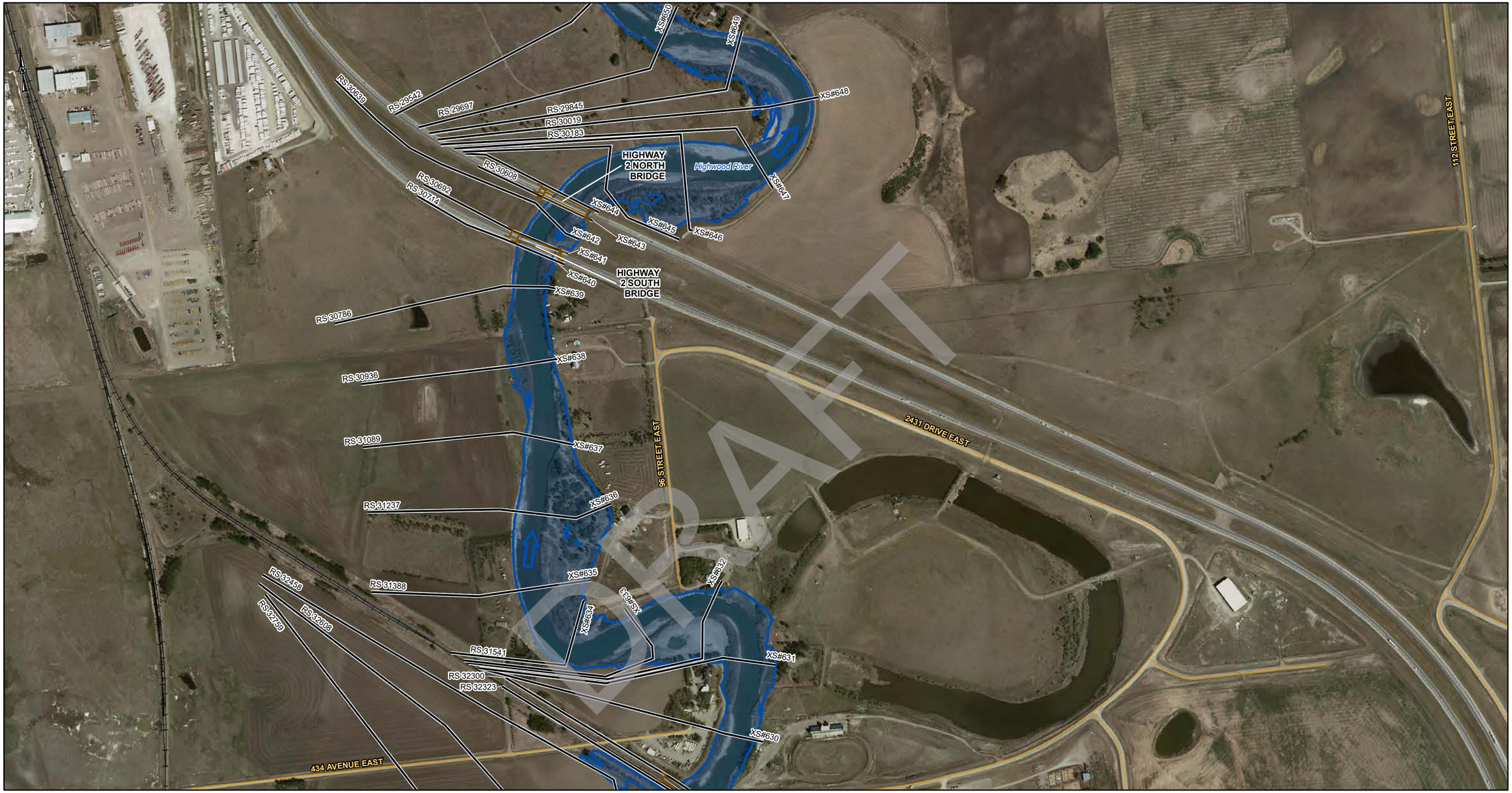
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0020y-Inundation_Rev0.mxd

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
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
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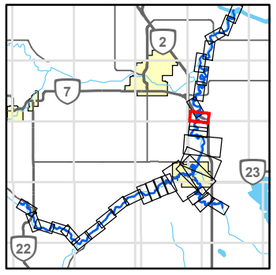
- BRIDGE

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 ↓



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
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PROJECT NO.	CONTROL	REV.	FIGURE
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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
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RS 26048
RS 25908
RS 25564
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XS#679

LEGEND

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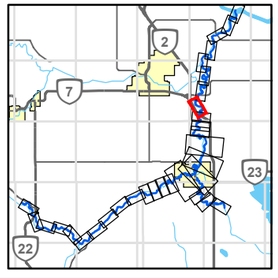

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 YEAR INUNDATION EXTENT

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

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LEGEND

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

HYDRAULIC STRUCTURES

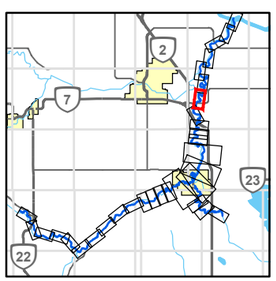
- CULVERT
- WEIR
- BRIDGE

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

1:7500 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 23 of 33

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

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

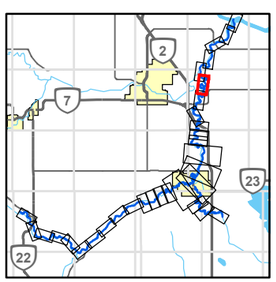
- CULVERT
- WEIR
- BRIDGE

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



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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 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_0020r-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

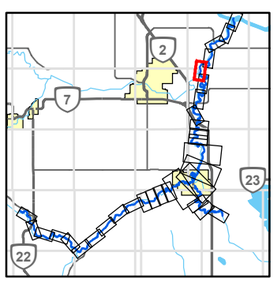
- CULVERT
- WEIR
- BRIDGE

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
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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

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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 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

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

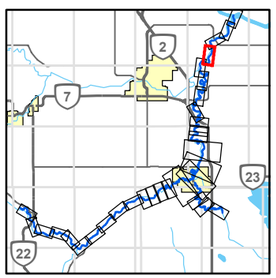
- CULVERT
- WEIR
- BRIDGE

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 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 26 of 33

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

25mm

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

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

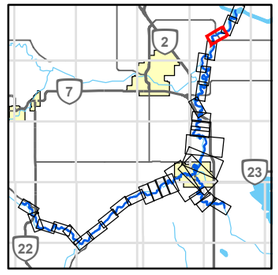
- CULVERT
- WEIR
- BRIDGE

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

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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 27 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_2020\y-Inundation_Rev0.mxd

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

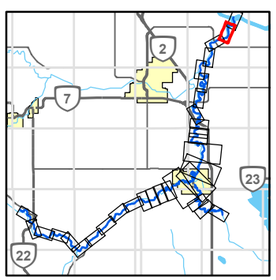
- CULVERT
- WEIR
- BRIDGE

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



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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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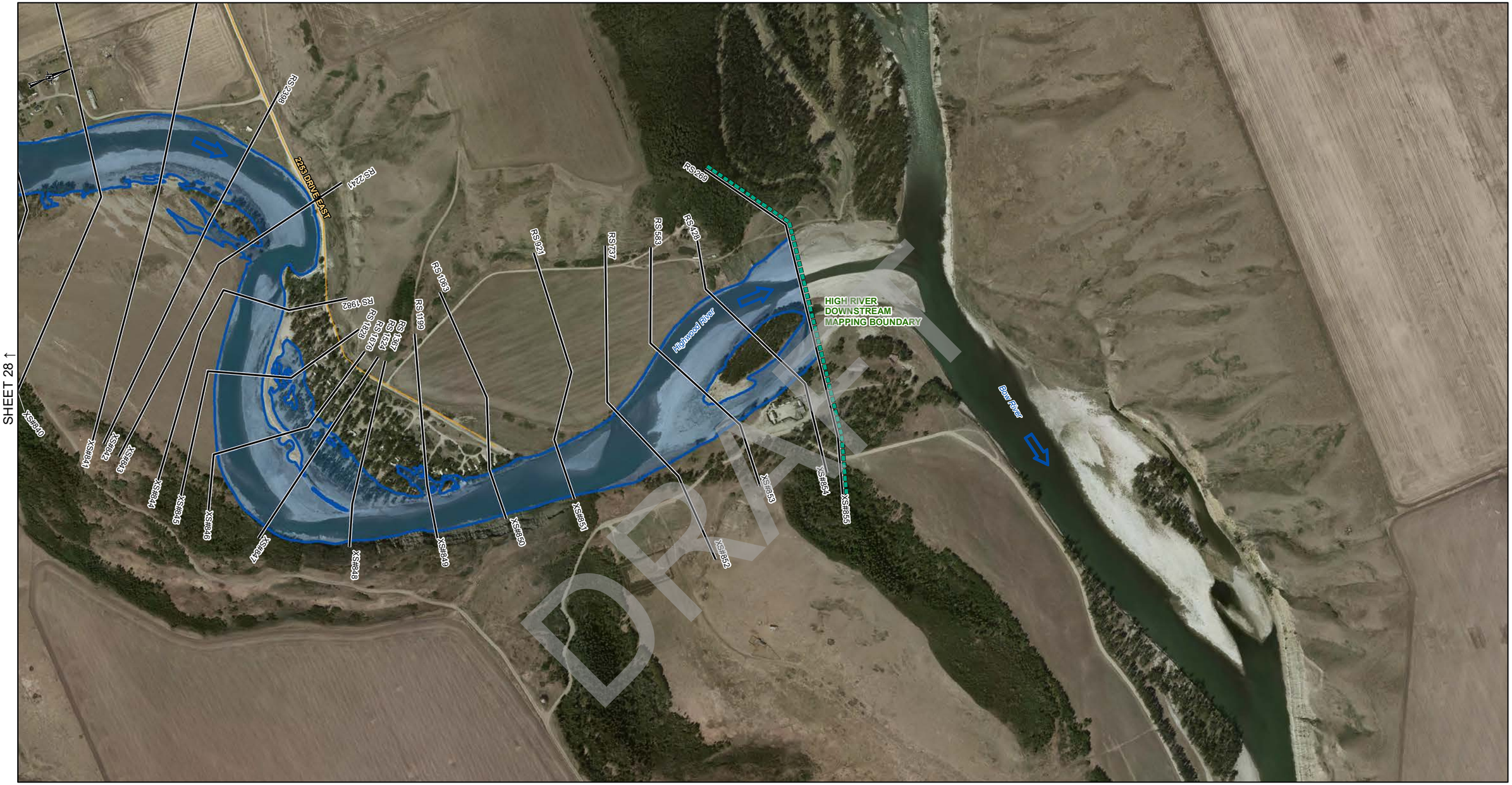
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0020y-Inundation_Rev0.mxd

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

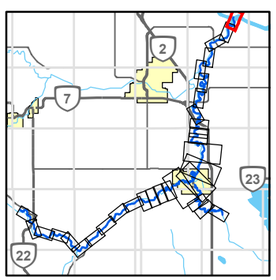
HYDRAULIC STRUCTURES

- 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



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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
20 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_0020r-Inundation_Rev0.mxd

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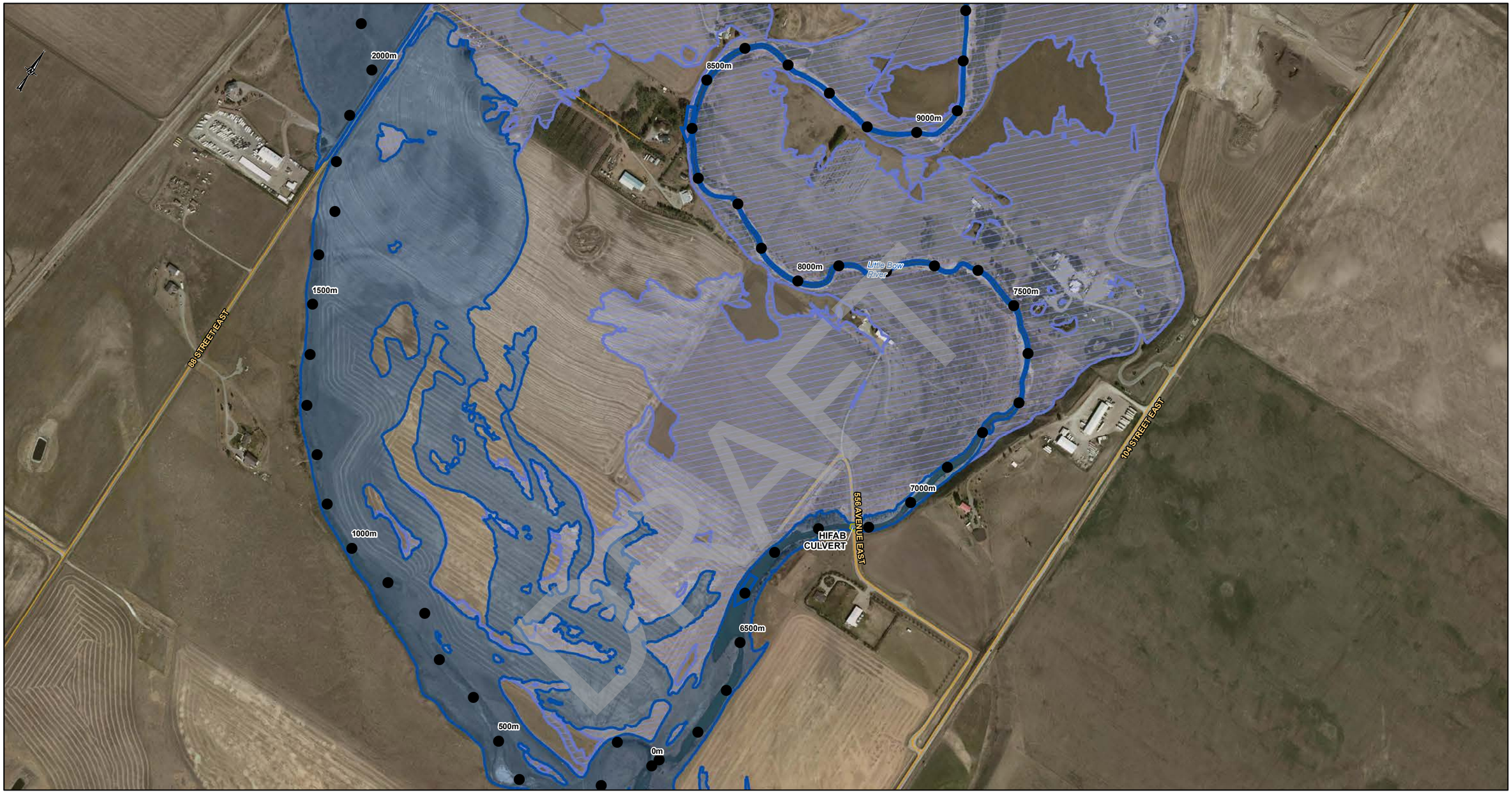
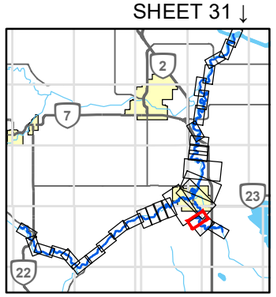
Classification: Public

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

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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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
20 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\1536969_0020y-Inundation_Rev0.mxd

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25mm
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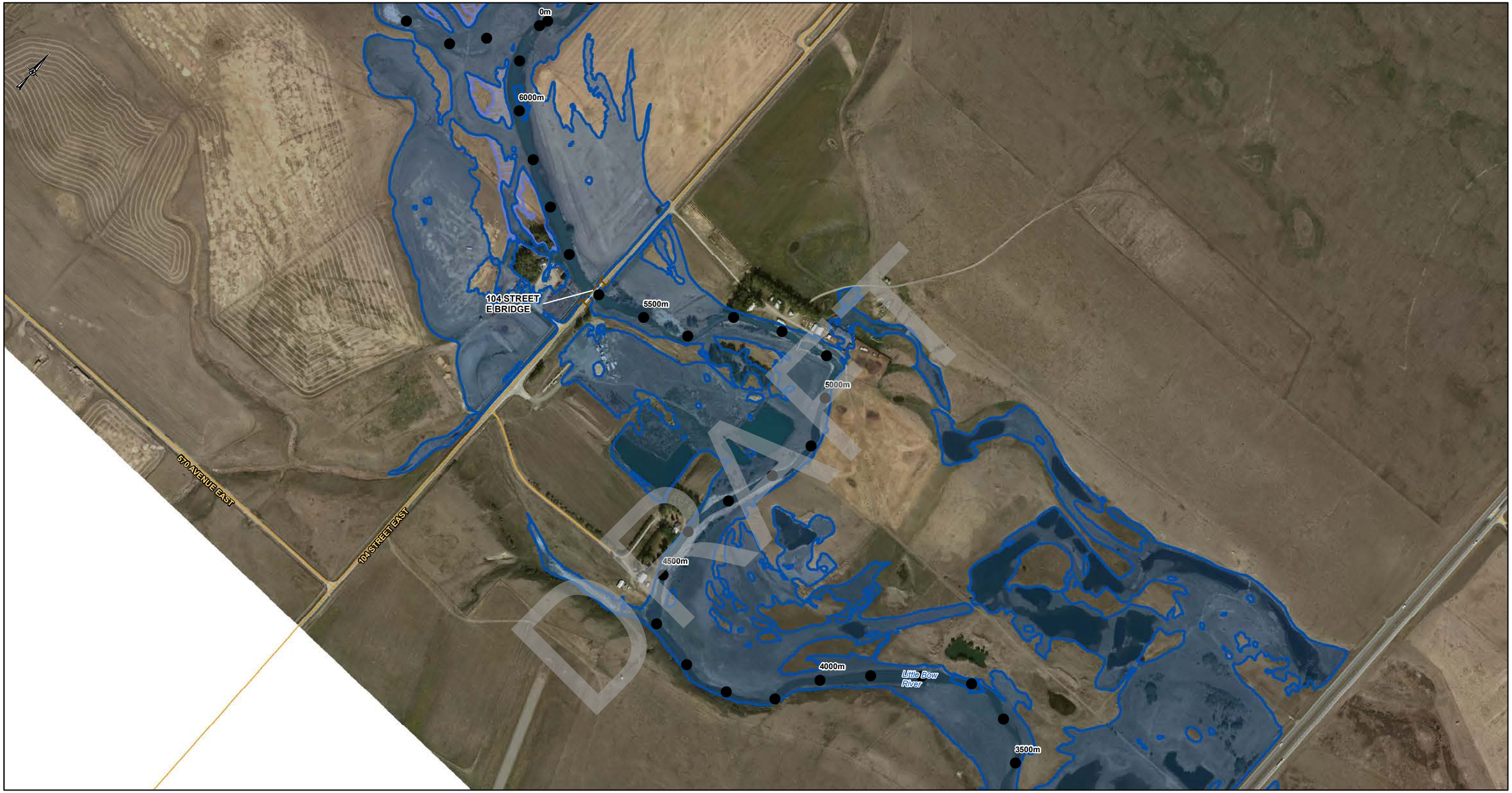
Classification: Public

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

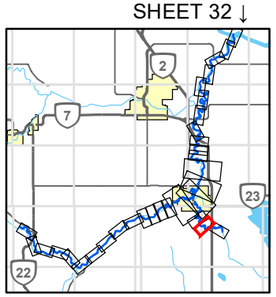
- CULVERT
- WEIR
- BRIDGE

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 ↓



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1:7500 METRES

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Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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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

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

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

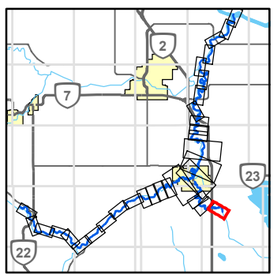
HYDRAULIC STRUCTURES

- 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
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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2022\y-Inundation_Rev0.mxd

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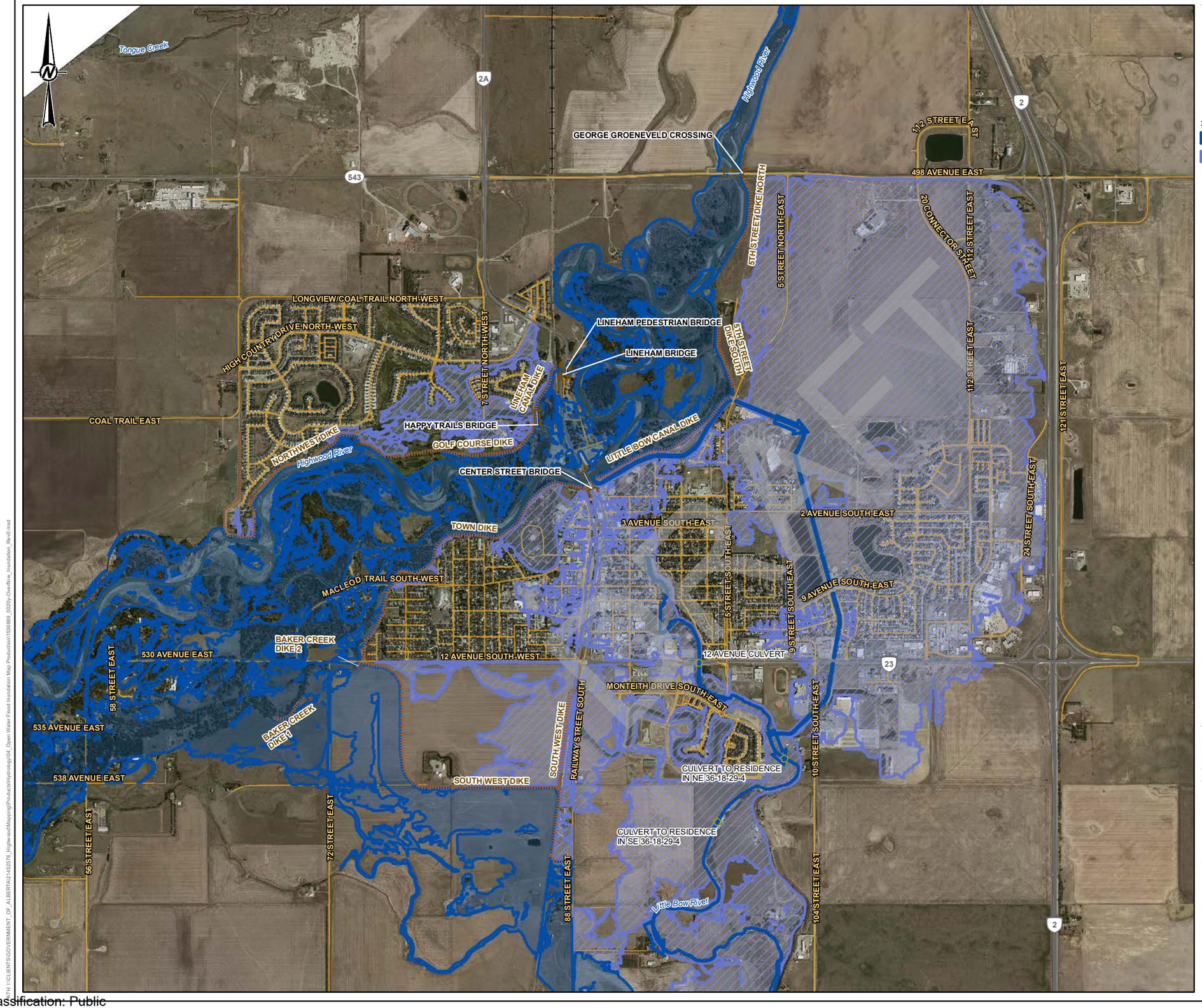
25mm
0

Classification: Public



LEGEND

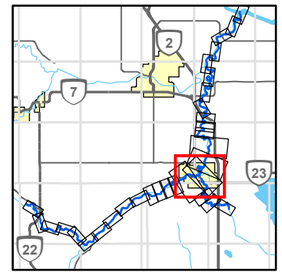
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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



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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

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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

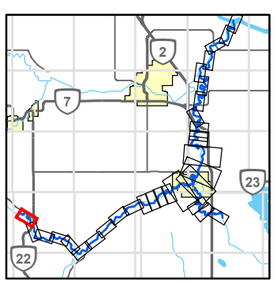
HYDRAULIC STRUCTURES

- 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



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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
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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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25mm

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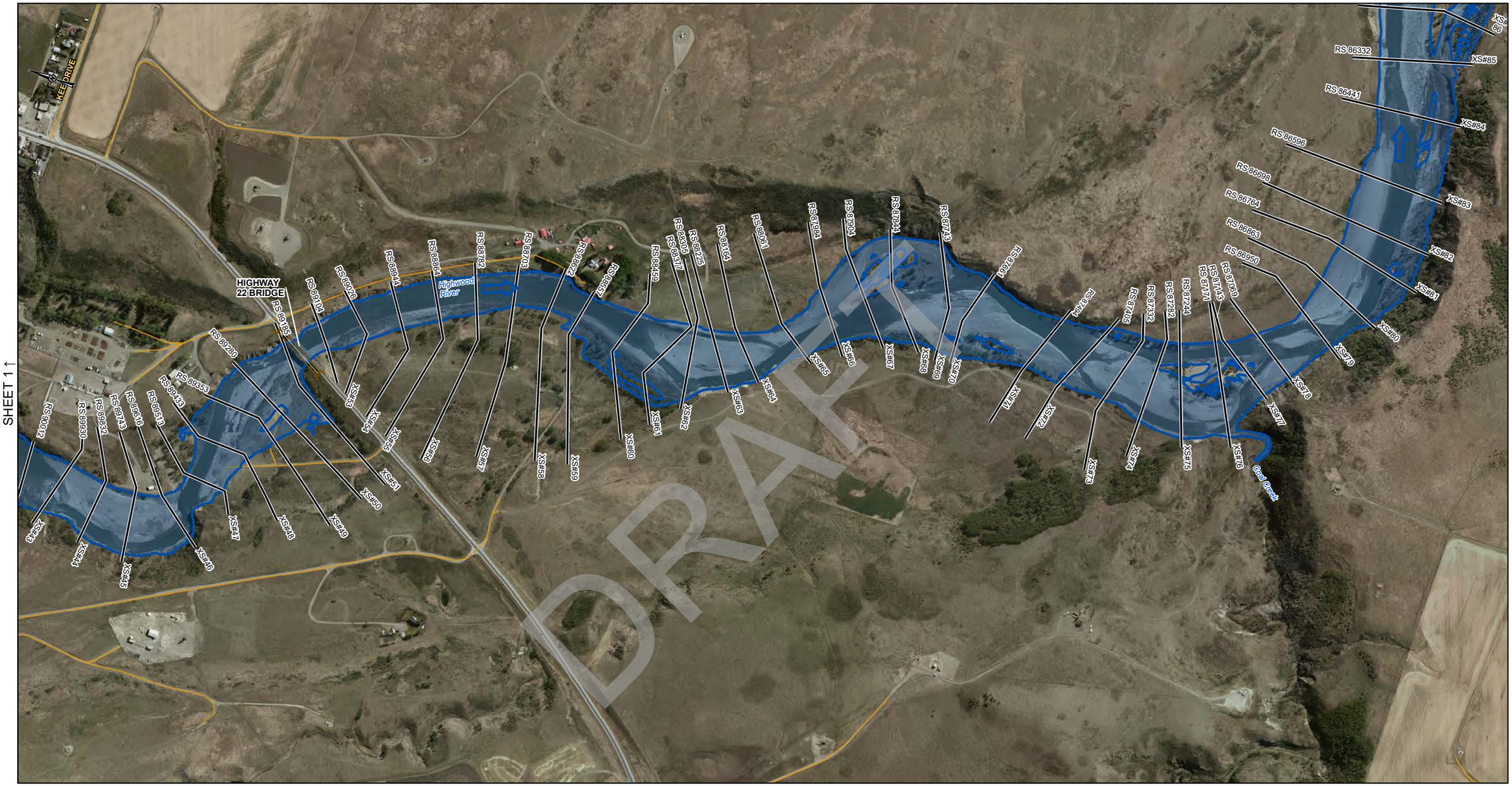
Classification: Public



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

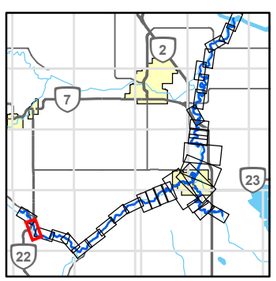
- CULVERT
- WEIR
- BRIDGE

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



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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
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

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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)
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HYDRAULIC STRUCTURES

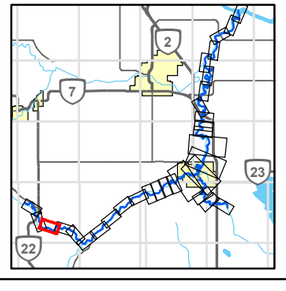
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 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_0035y-Inundation_Rev0.mxd

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Classification: Public

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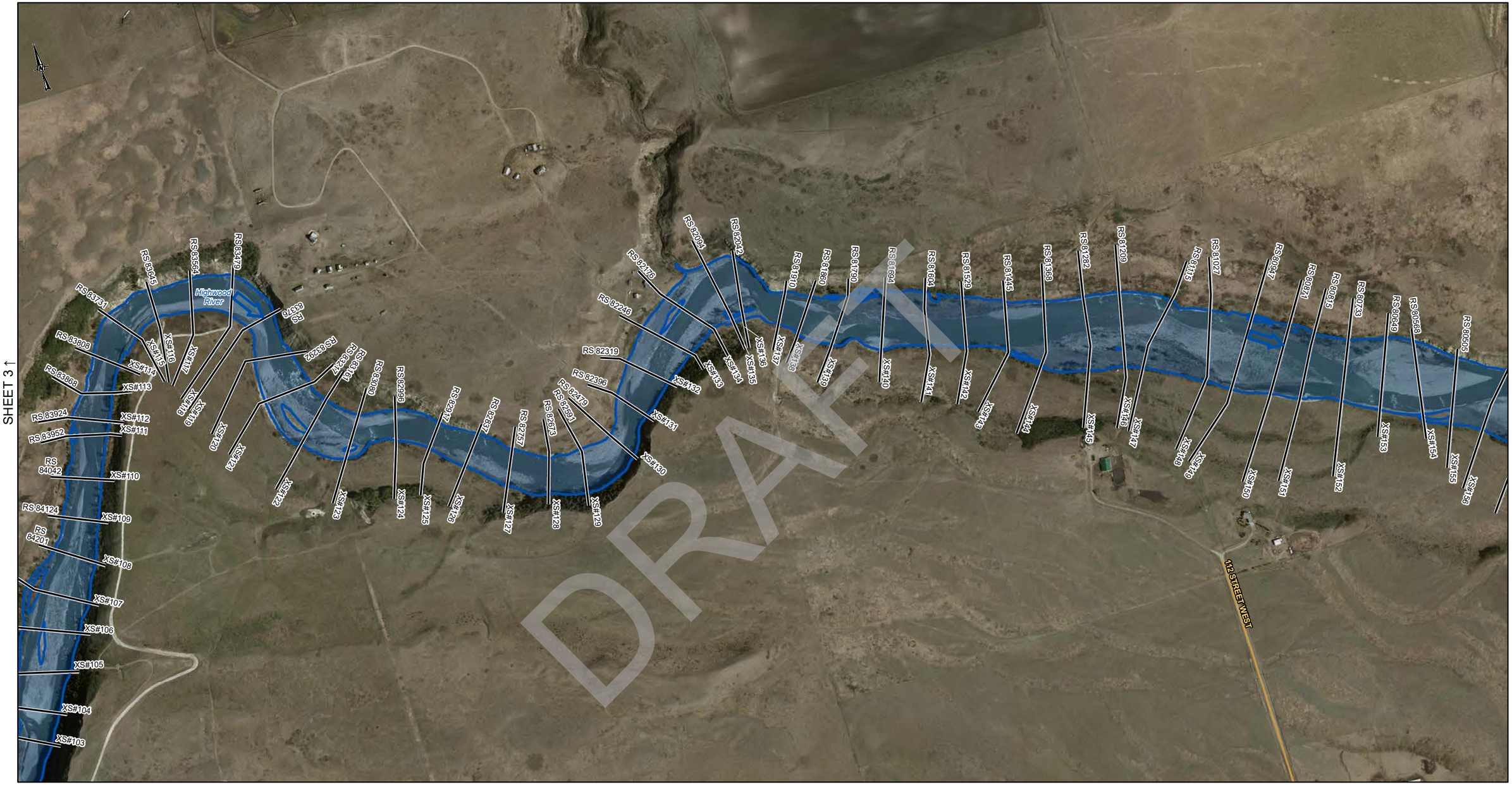
SHEET 5 ↓



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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35-YEAR FLOOD INUNDATION EXTENT

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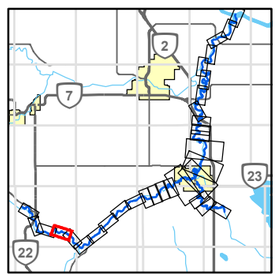
DESIGN DISCHARGE

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



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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 4 of 33

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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

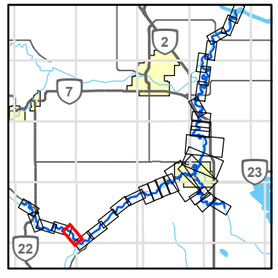
- CULVERT
- WEIR
- BRIDGE

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



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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 5 of 33

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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

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

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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
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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

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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
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

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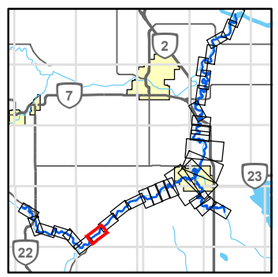
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
35 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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

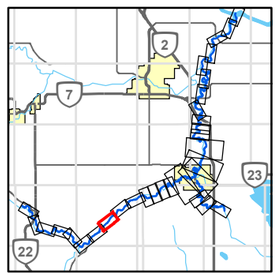
- CULVERT
- WEIR
- BRIDGE

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



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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

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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
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HYDRAULIC STRUCTURES

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35-YEAR FLOOD INUNDATION EXTENT

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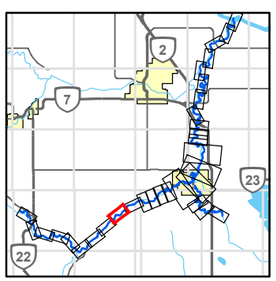
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

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



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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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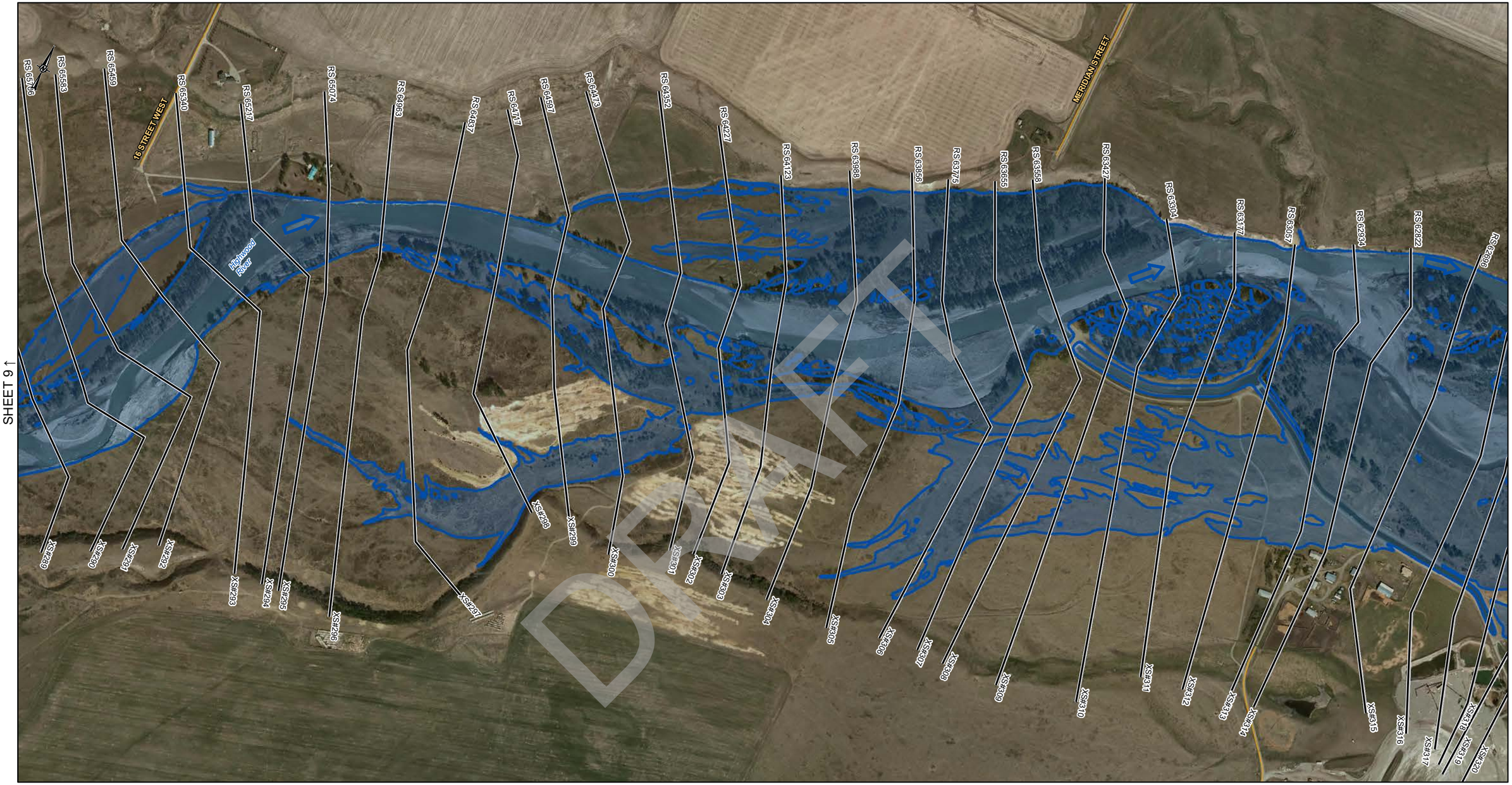
Classification: Public

SHEET 9 ↑

SHEET 11 ↓



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LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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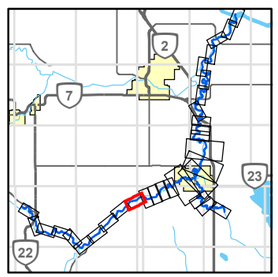
- 35-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 696 M^3/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 10 of 33

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

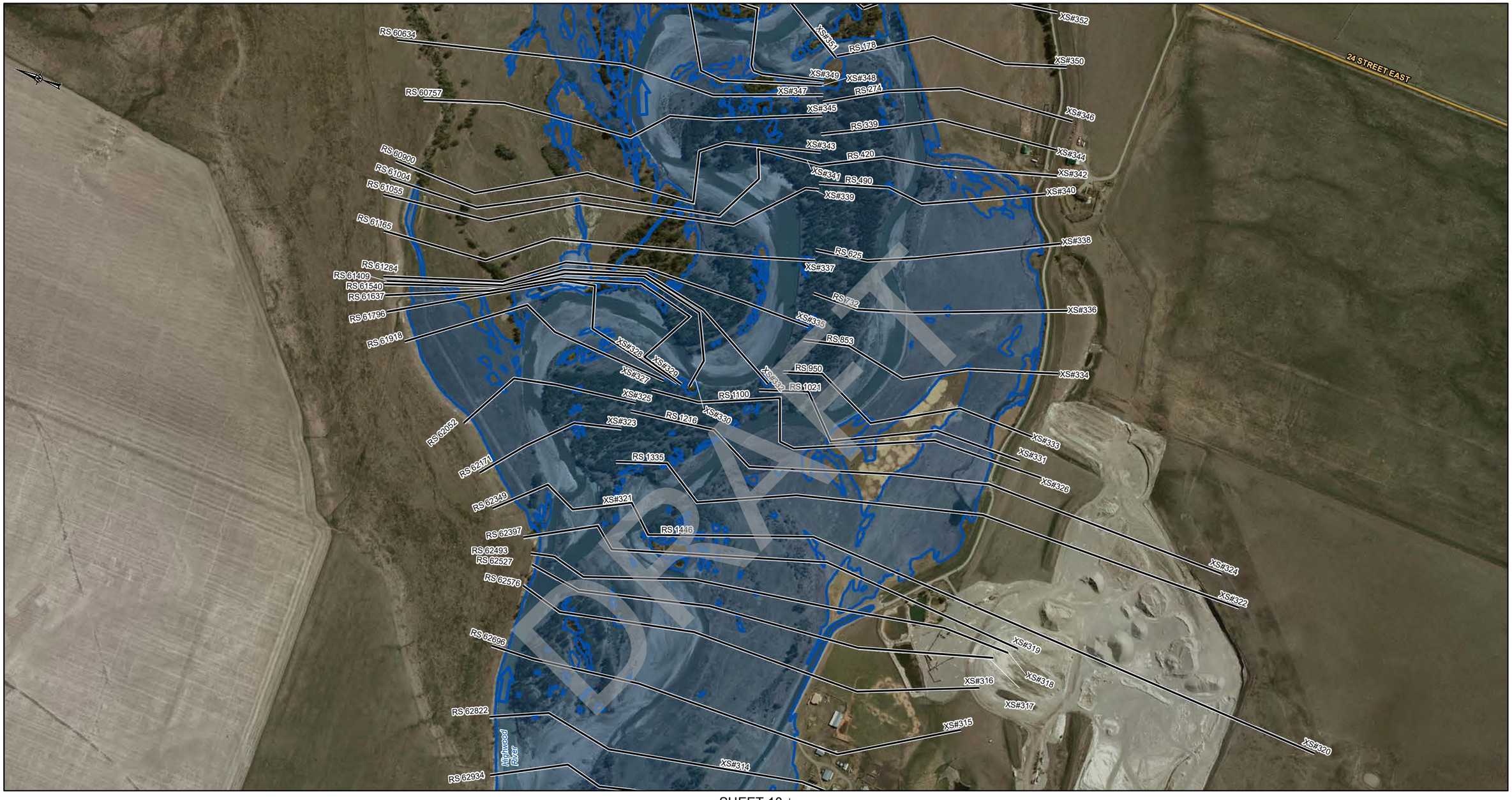
29mm

0

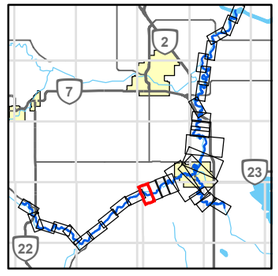
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

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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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 11 of 33

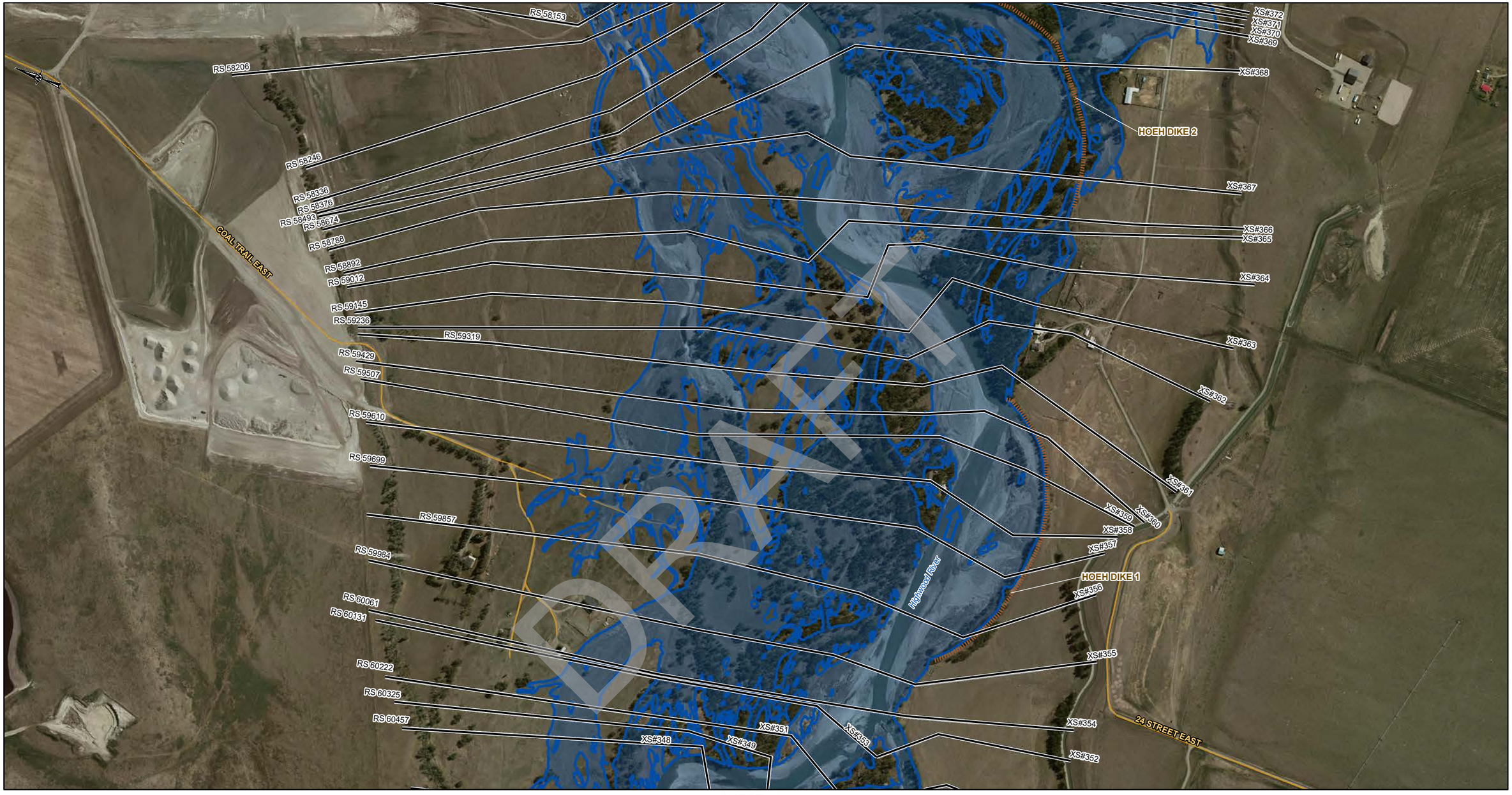
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

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

25mm

Classification: Public

SHEET 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

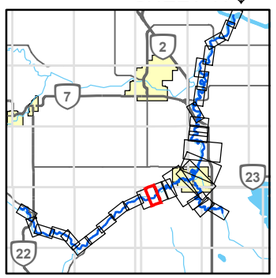
- CULVERT
- WEIR
- BRIDGE

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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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

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\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
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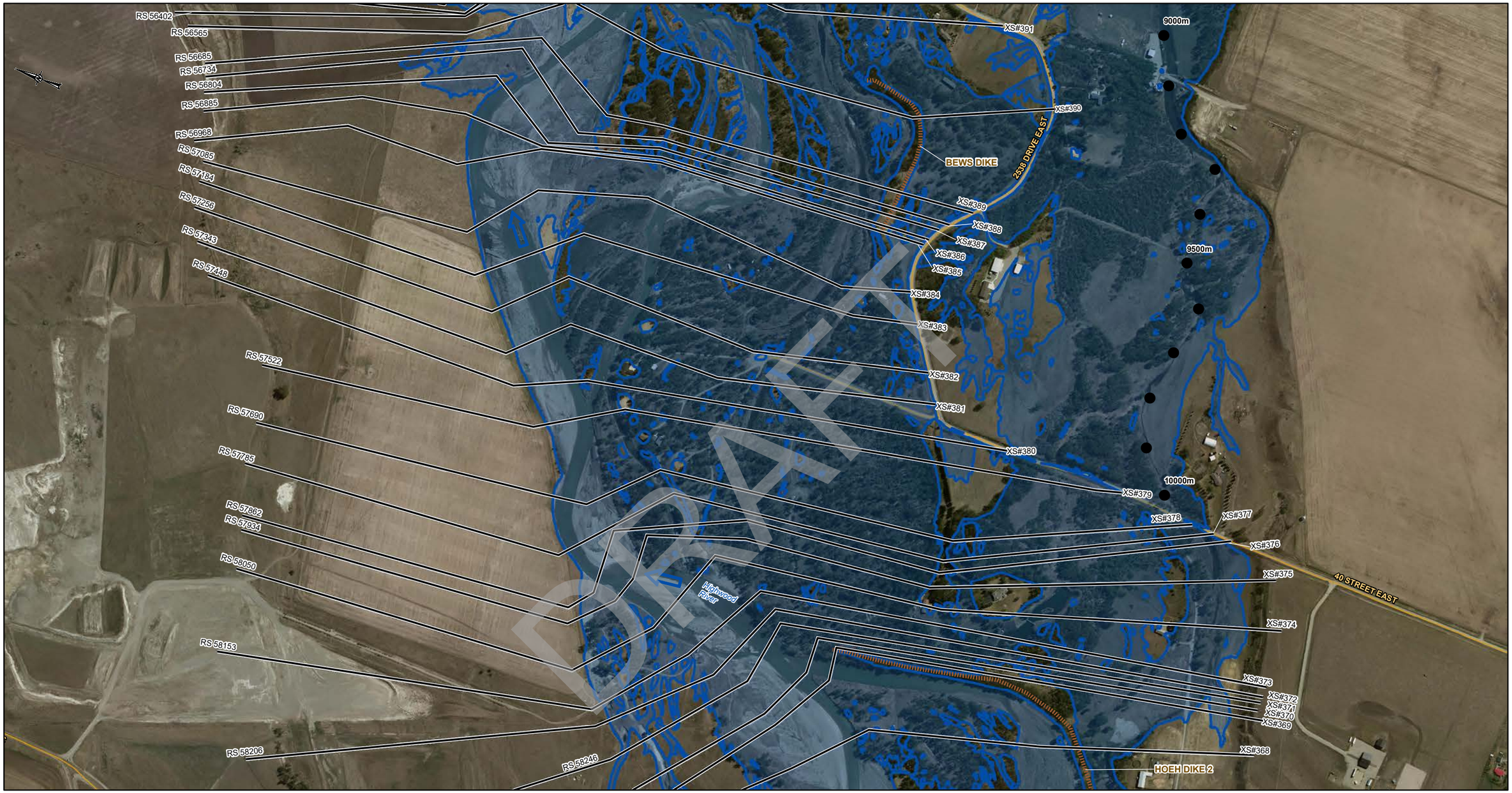
Classification: Public

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

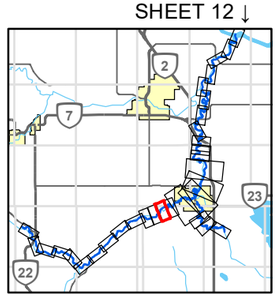
- CULVERT
- WEIR
- BRIDGE

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

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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 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

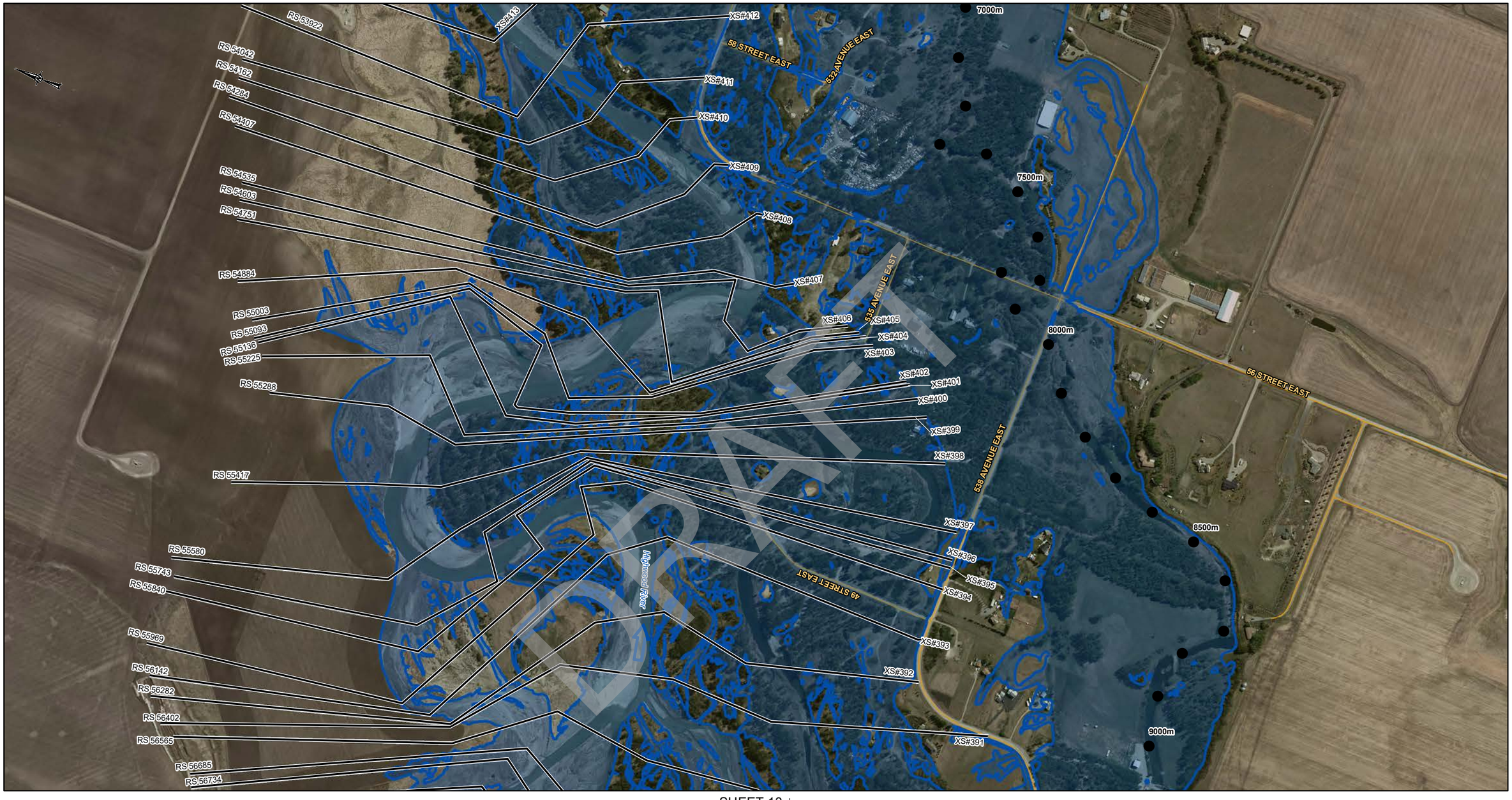
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

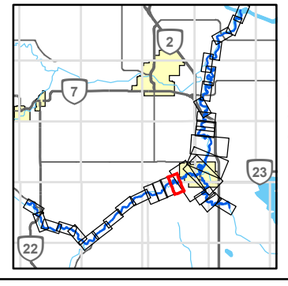
- CULVERT
- WEIR
- BRIDGE

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

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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
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

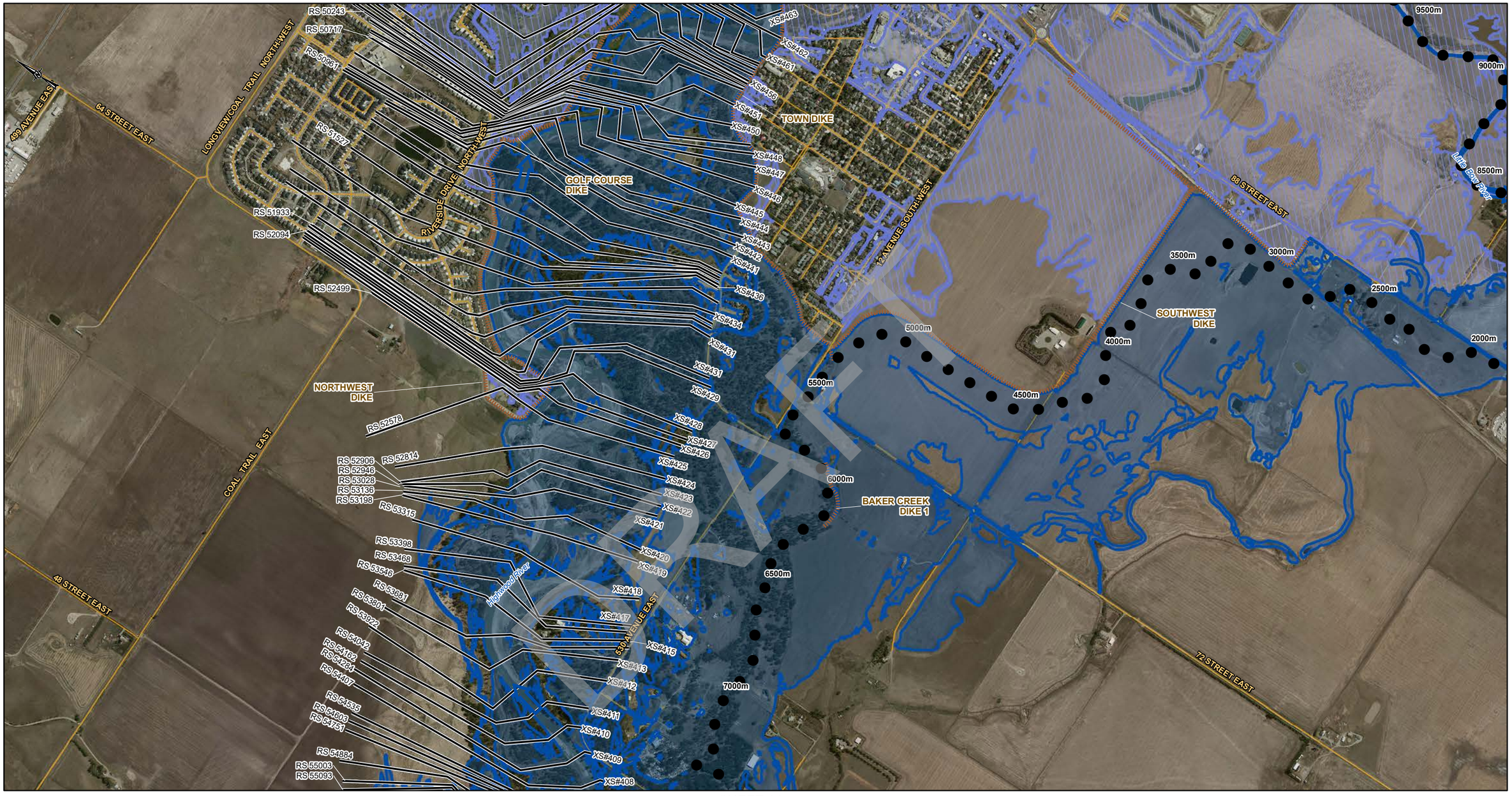
25mm

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)
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

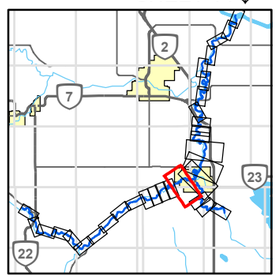
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

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



0 250 500

1:15000 METRES

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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 15 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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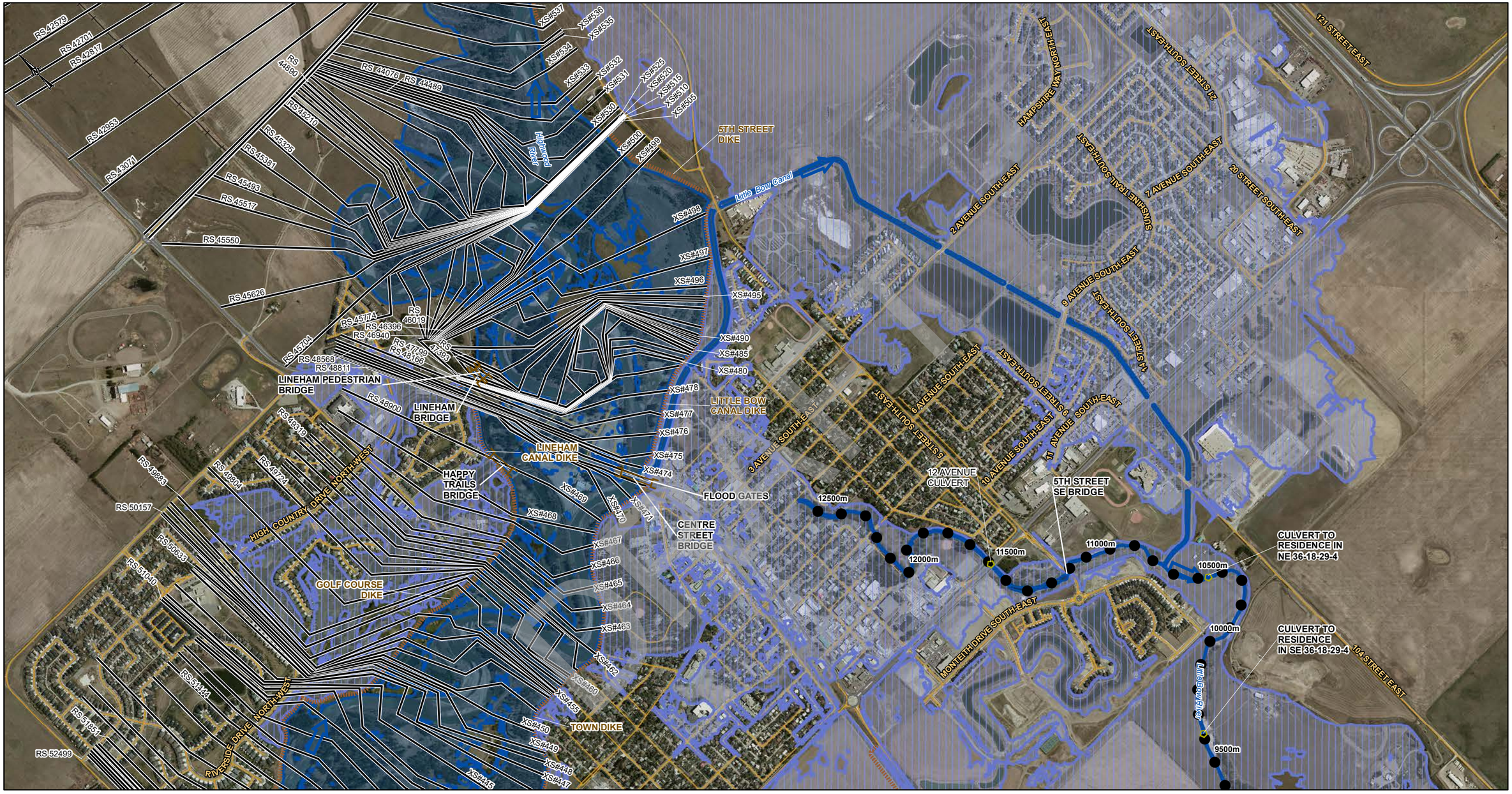
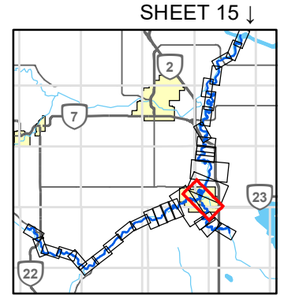
Classification: Public

SHEET 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

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

Classification: Public

SHEET 18 ↑


RS 40551
RS 40792
RS 40914
RS 41084
RS 41274
RS 41514
RS 41635
RS 41751
RS 41873
RS 41981
RS 42105
RS 42224
RS 42343
RS 42461
RS 42579
RS 42701
RS 42817
RS 42953
RS 43071
RS 43189
RS 43307
RS 43425
RS 43543
RS 43661
RS 43779
RS 43897
RS 44015
RS 44133
RS 44251
RS 44369
RS 44487
RS 44605
RS 44723
RS 44841
RS 44959
RS 45077
RS 45195
RS

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

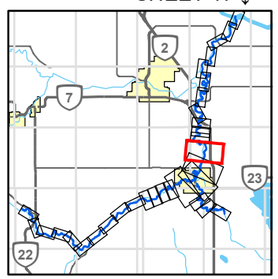
- CULVERT
- WEIR
- BRIDGE

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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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

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25mm
0

SHEET 20 ↑



DRAFT

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

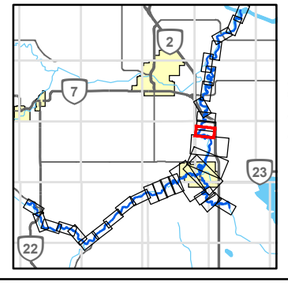
HYDRAULIC STRUCTURES

- 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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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

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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

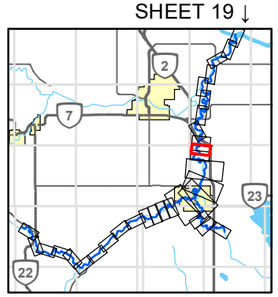
- CULVERT
- WEIR
- BRIDGE

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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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
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
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0035y-Inundation_Rev0.mxd

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

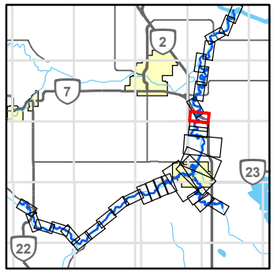
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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
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 ↓

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

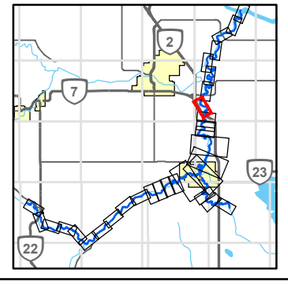
- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

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



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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 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

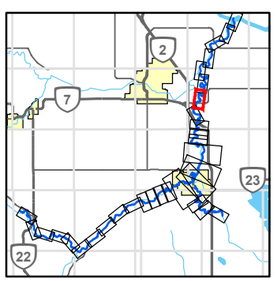
- CULVERT
- WEIR
- BRIDGE

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



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

HYDRAULIC STRUCTURES

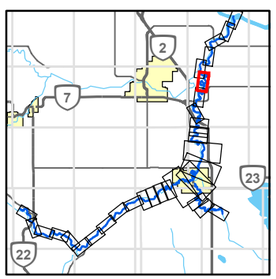
- CULVERT
- WEIR
- BRIDGE

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



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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
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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0035y-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

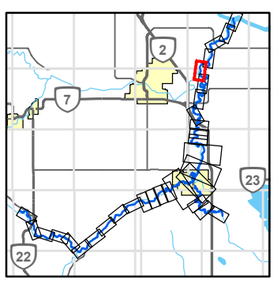
- CULVERT
- WEIR
- BRIDGE

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



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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

25mm

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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

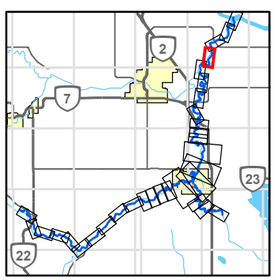
HYDRAULIC STRUCTURES

- 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



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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 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

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 ↓



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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

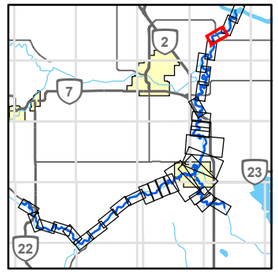
- CULVERT
- WEIR
- BRIDGE

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



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

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



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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

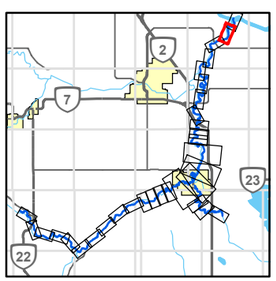
- CULVERT
- WEIR
- BRIDGE

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



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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

25mm

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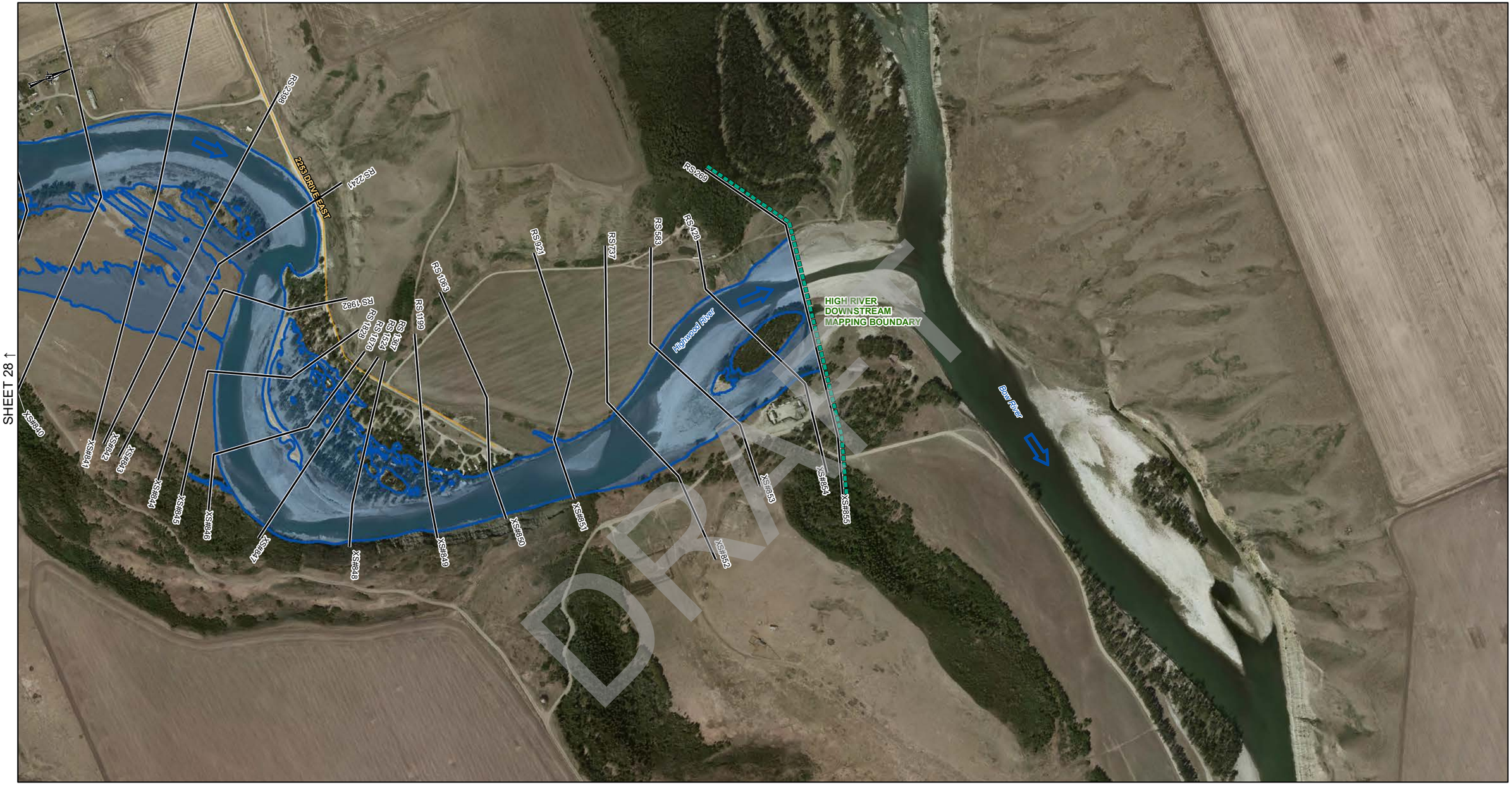
Classification: Public

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

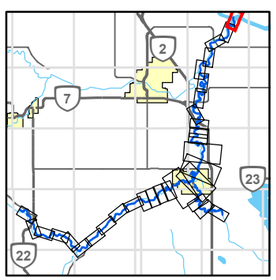
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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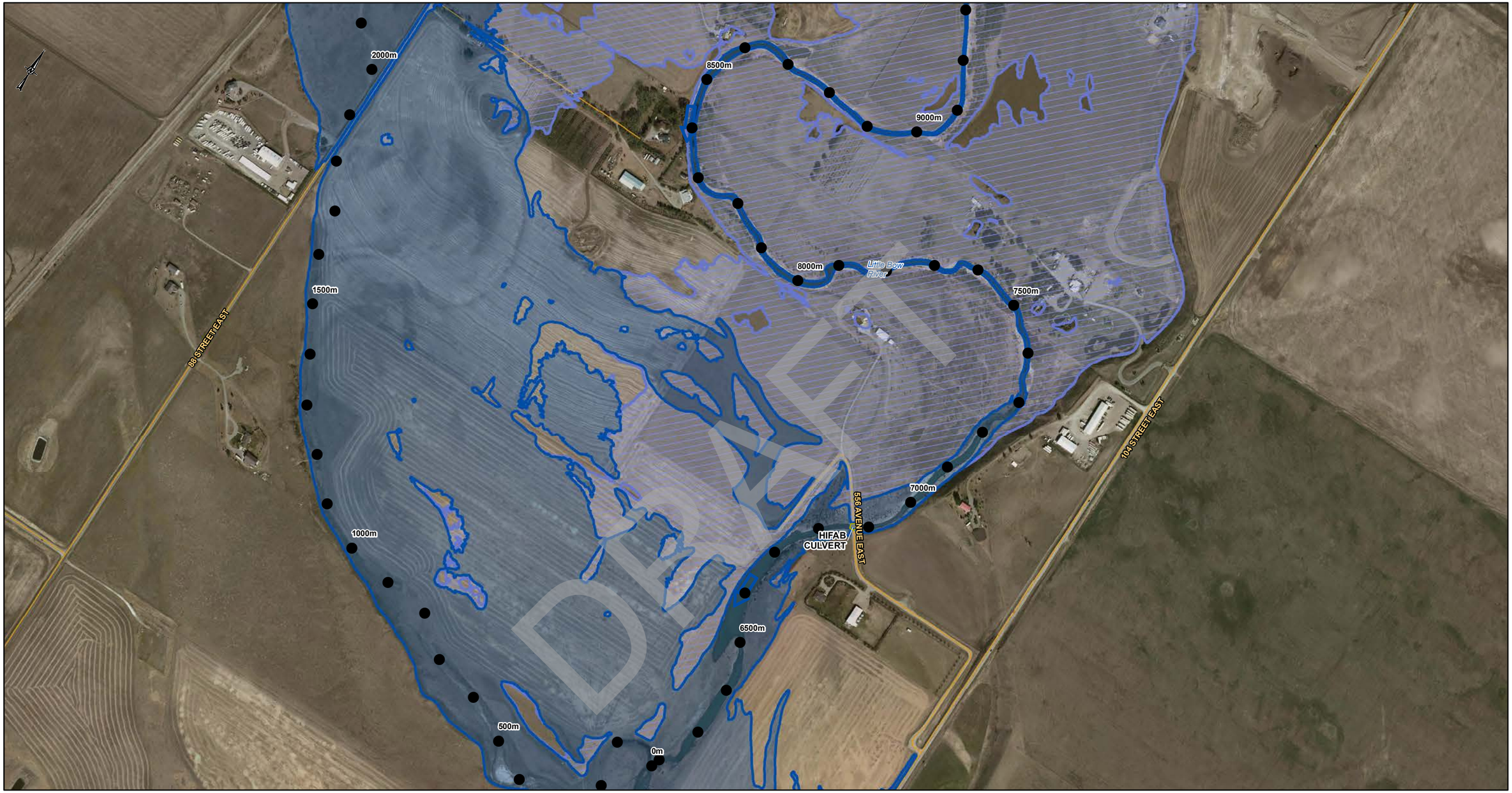
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0035y-Inundation_Rev0.mxd

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

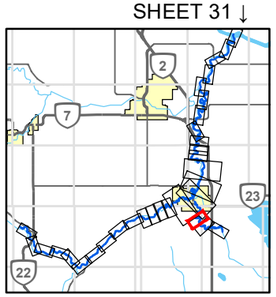
HYDRAULIC STRUCTURES

- 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



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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
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

25mm

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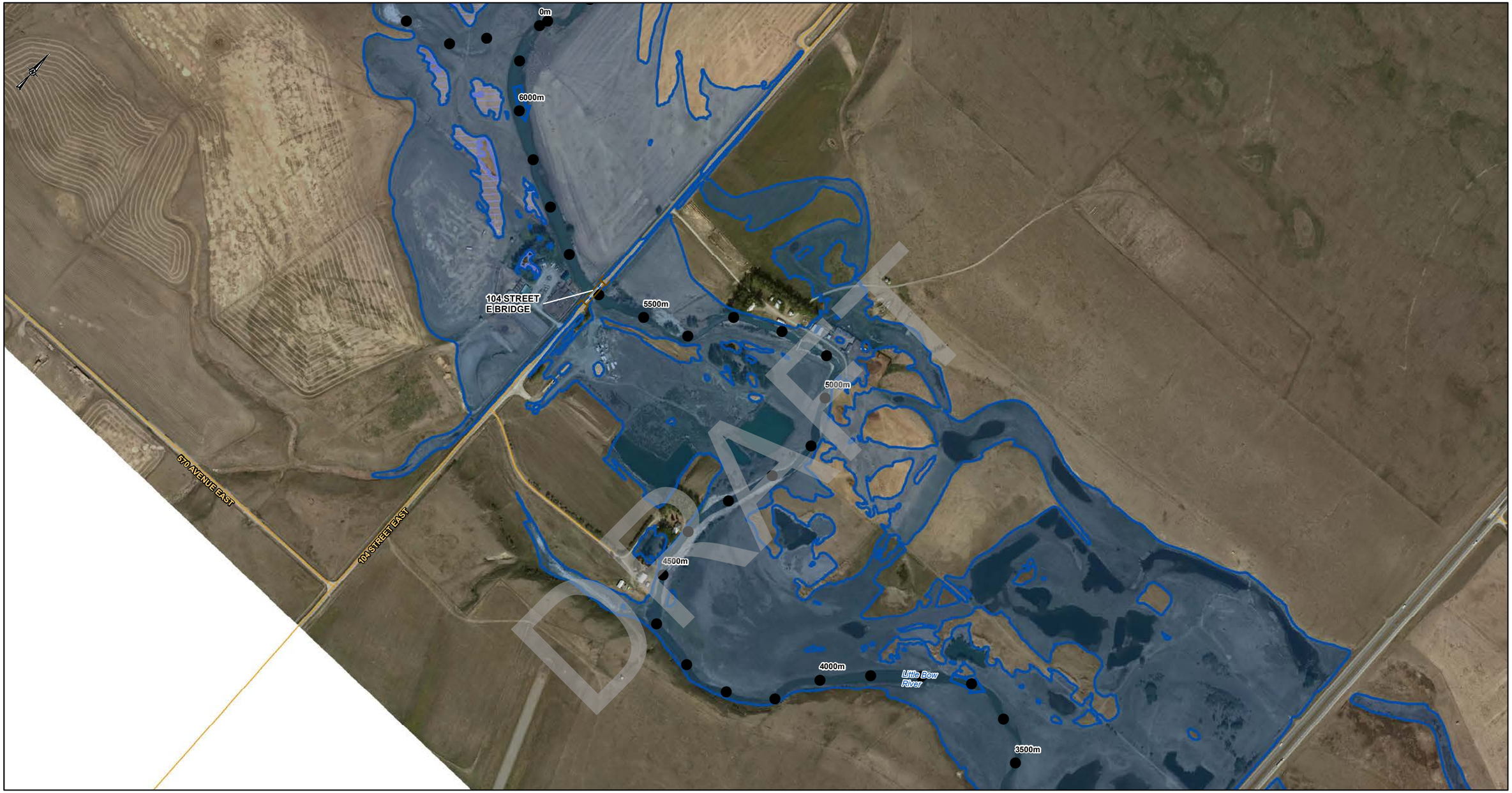
Classification: Public

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

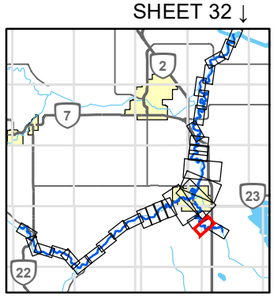
35-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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1:7500 METRES

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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 31 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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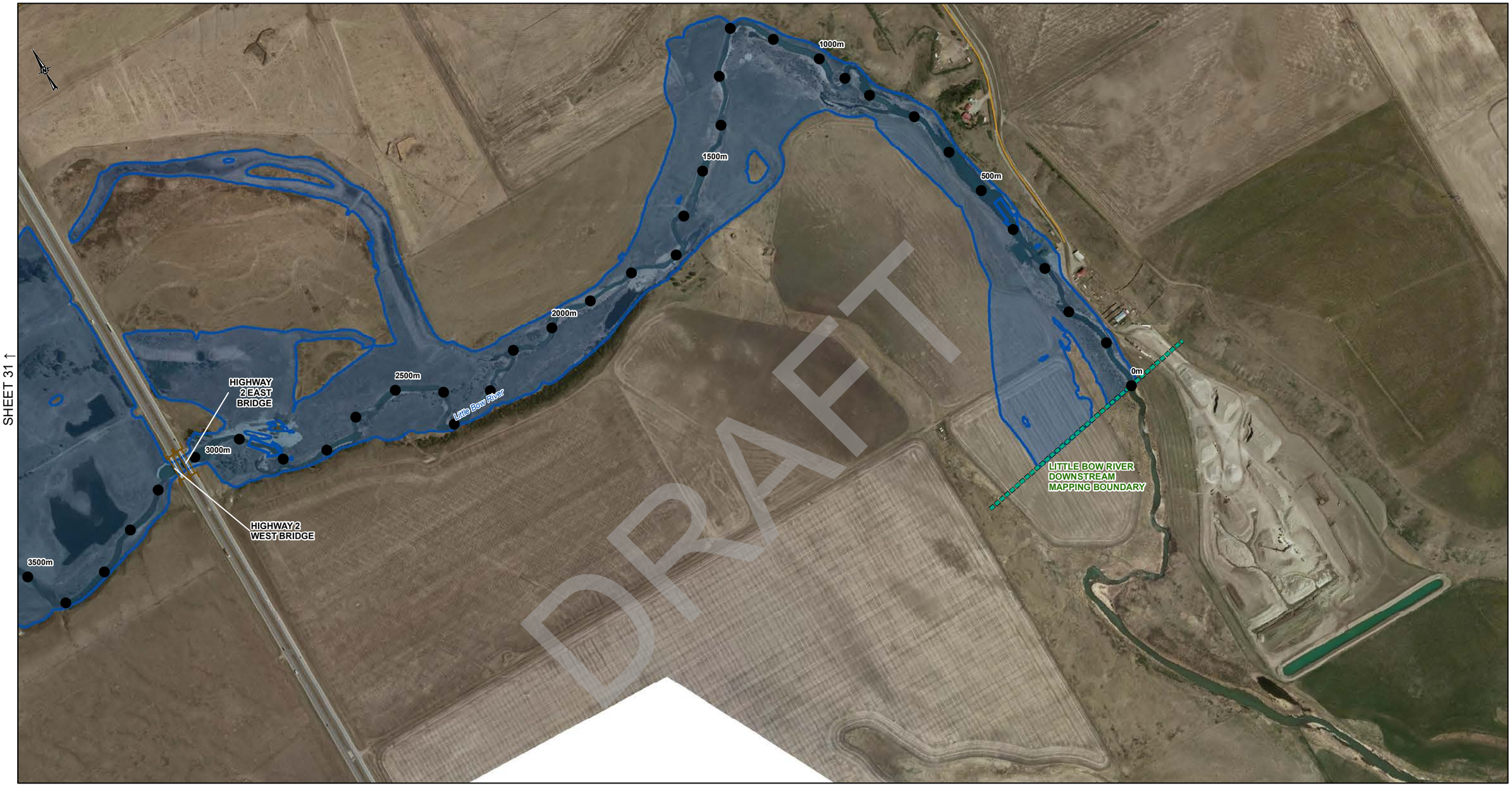
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0035y-Inundation_Rev0.mxd

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

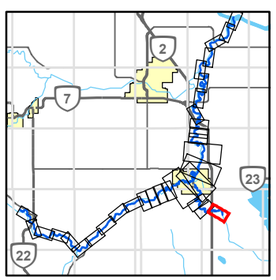
HYDRAULIC STRUCTURES

- 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



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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
35 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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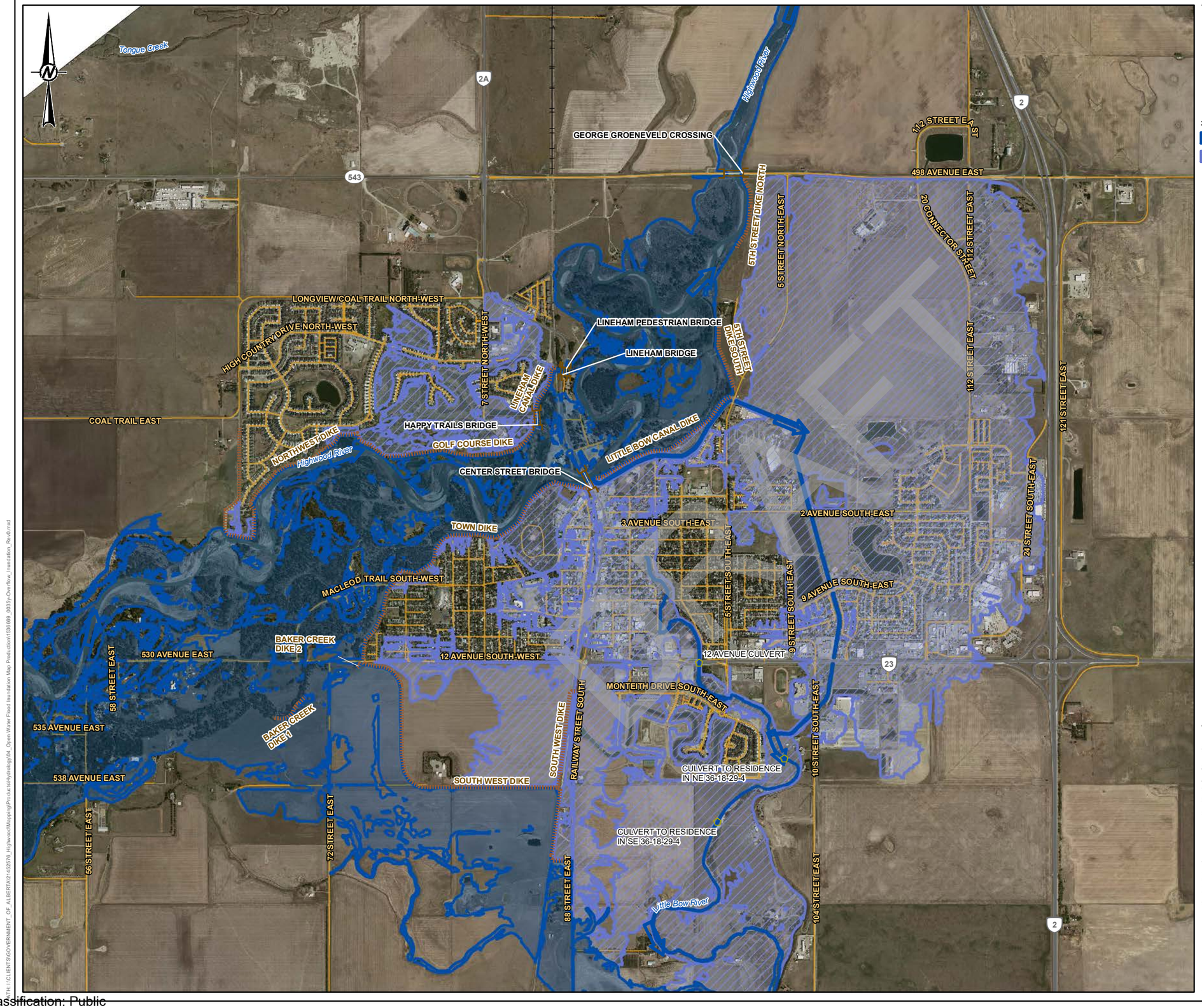


LEGEND

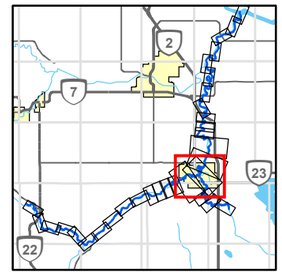
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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



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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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0035y-Overflow_Inundation_Rev0.mxd

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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

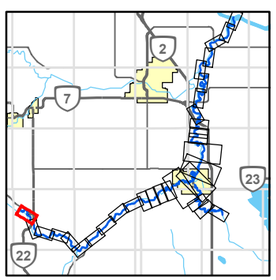
- CULVERT
- WEIR
- BRIDGE

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



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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

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

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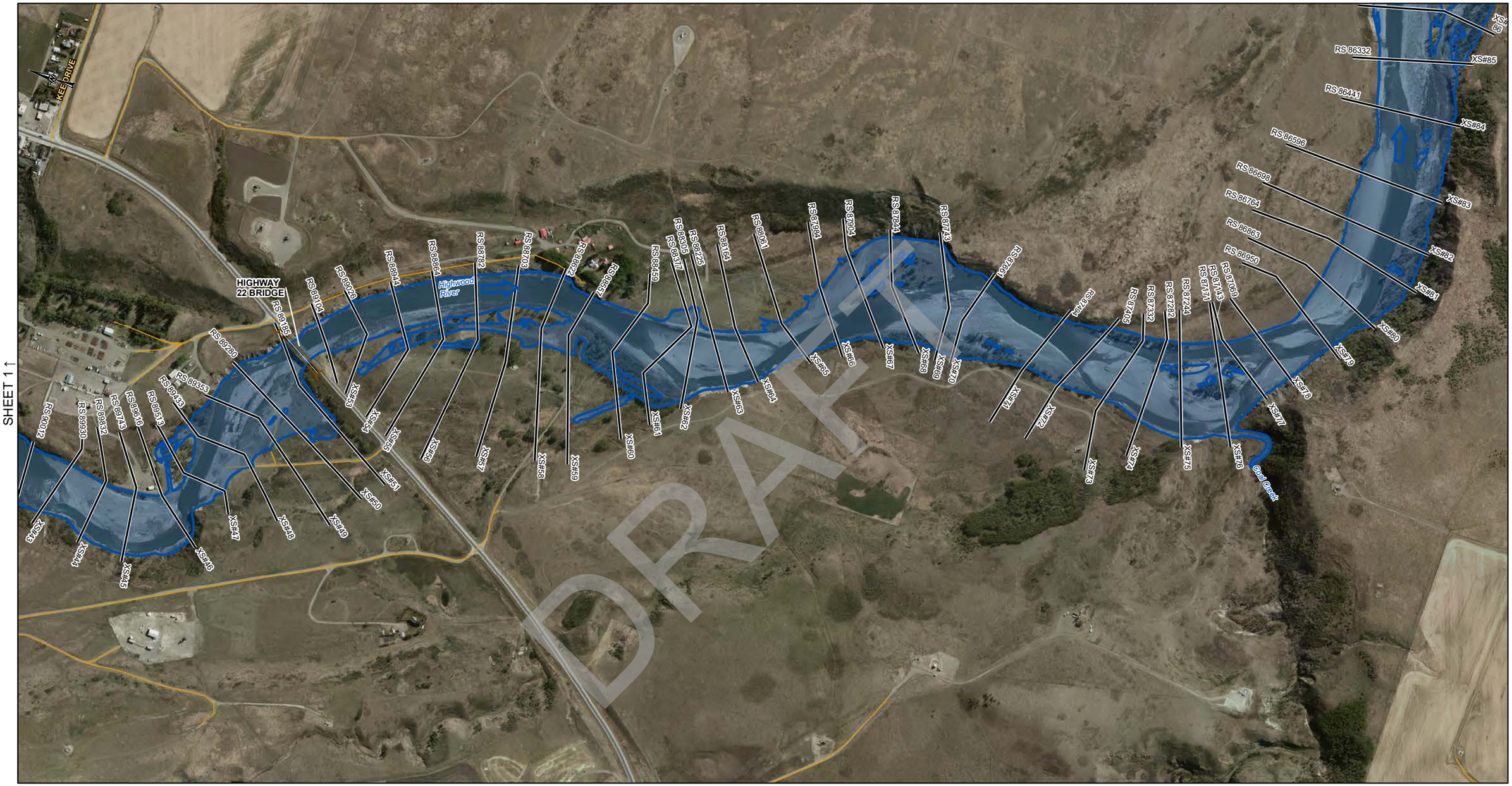
Classification: Public



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

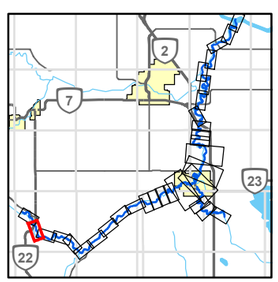
- CULVERT
- WEIR
- BRIDGE

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



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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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd

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

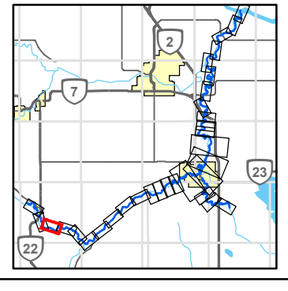
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S



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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 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21462576_HighwoodMapping\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
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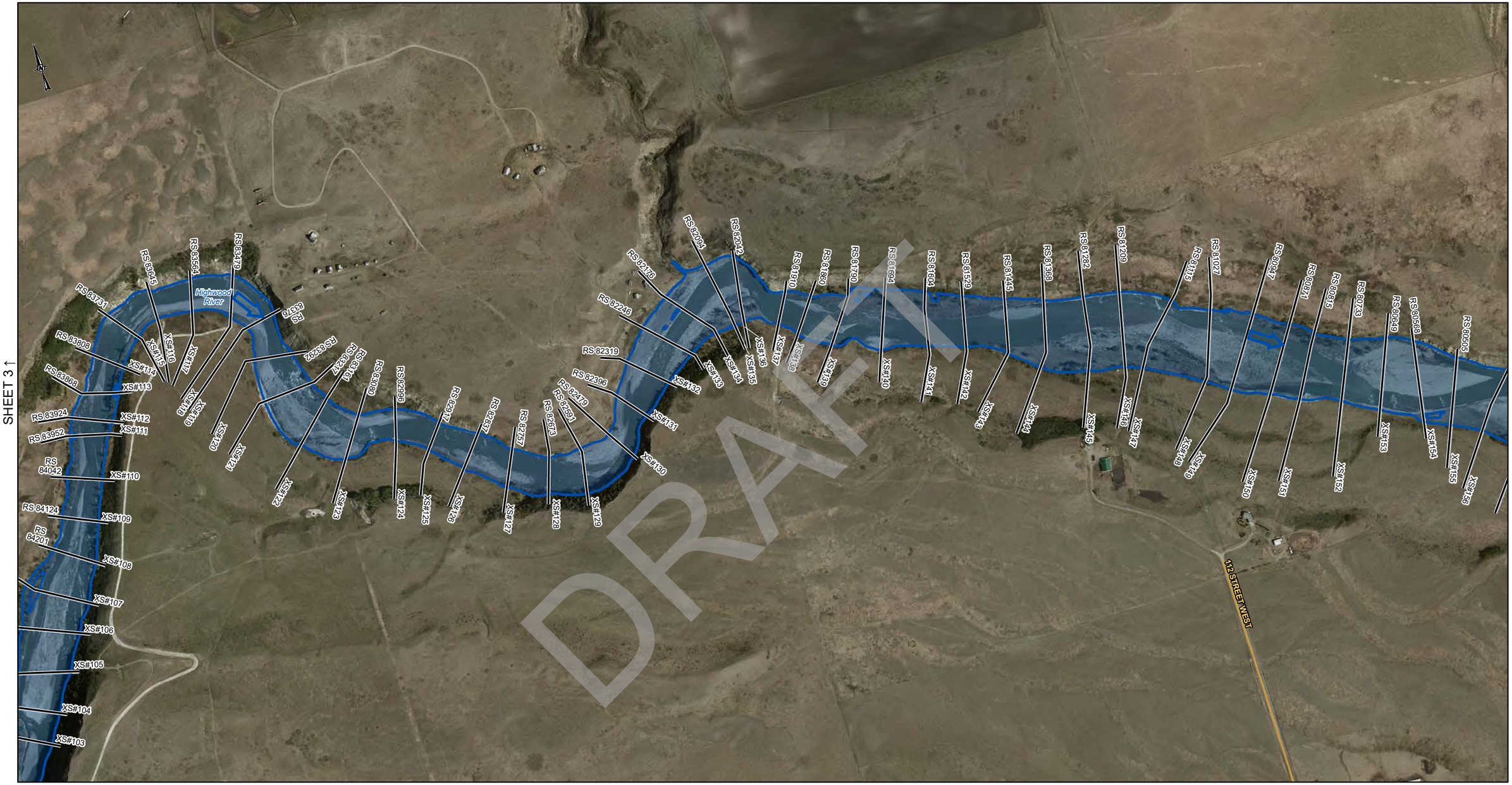
Classification: Public

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

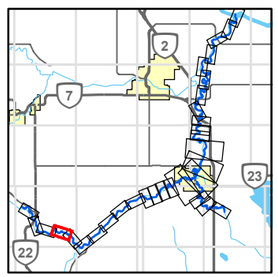
- CULVERT
- WEIR
- BRIDGE

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



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REVIEWED	JC
APPROVED	HZ

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

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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

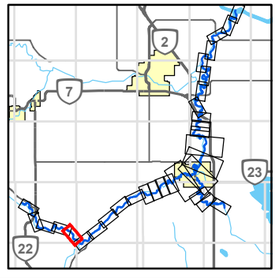
- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 627 M^3/S



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 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_0050y-Inundation_Rev0.mxd

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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

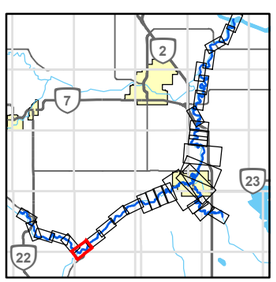
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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

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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

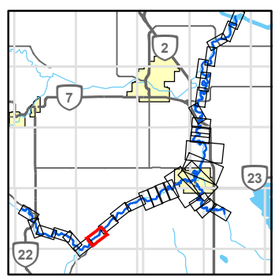
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

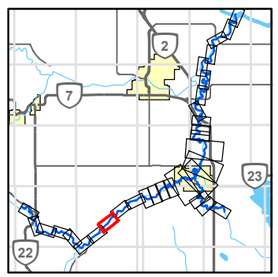
- CULVERT
- WEIR
- BRIDGE

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 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
50 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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0650v-Inundation_Rev0.mxd

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

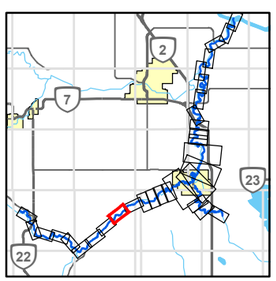
- CULVERT
- WEIR
- BRIDGE

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



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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 9 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0650y-Inundation_Rev0.mxd

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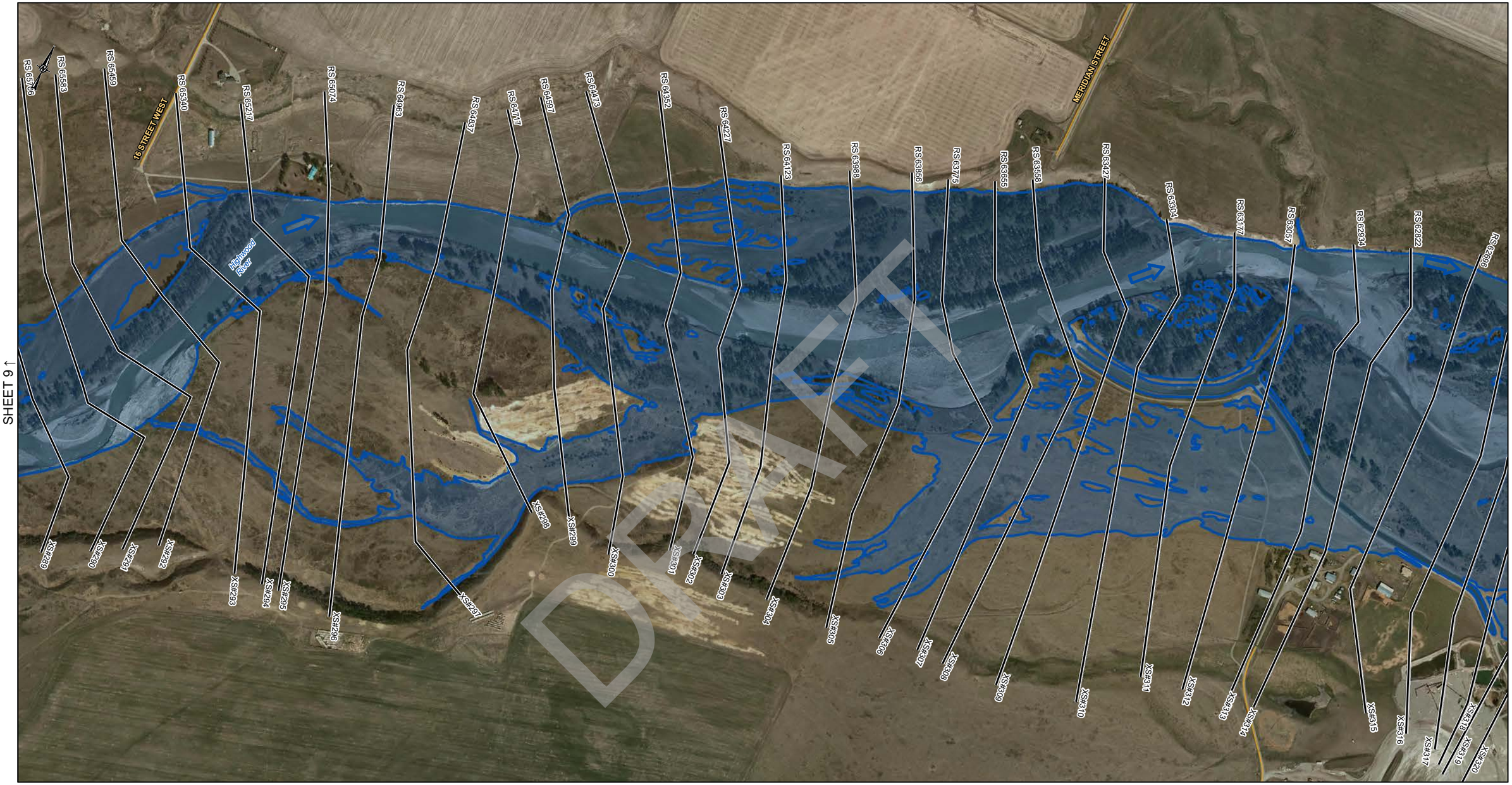


DRAFT

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

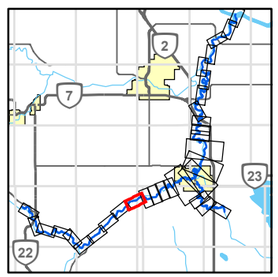
- CULVERT
- WEIR
- BRIDGE

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



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GOLDER
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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 10 of 33

29mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

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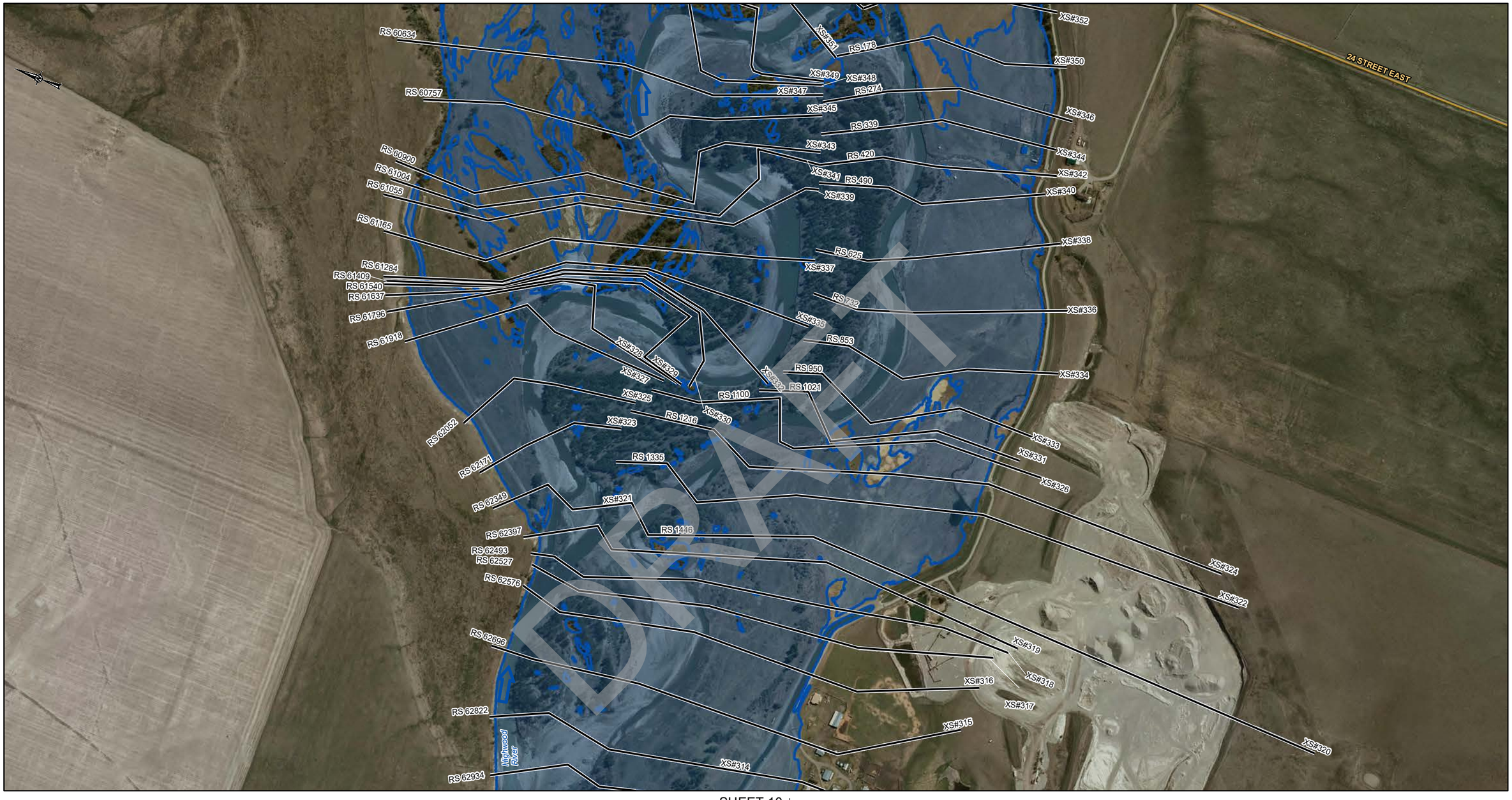
Classification: Public

SHEET 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

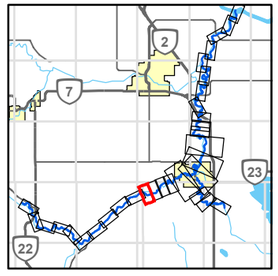
- CULVERT
- WEIR
- BRIDGE

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



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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 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

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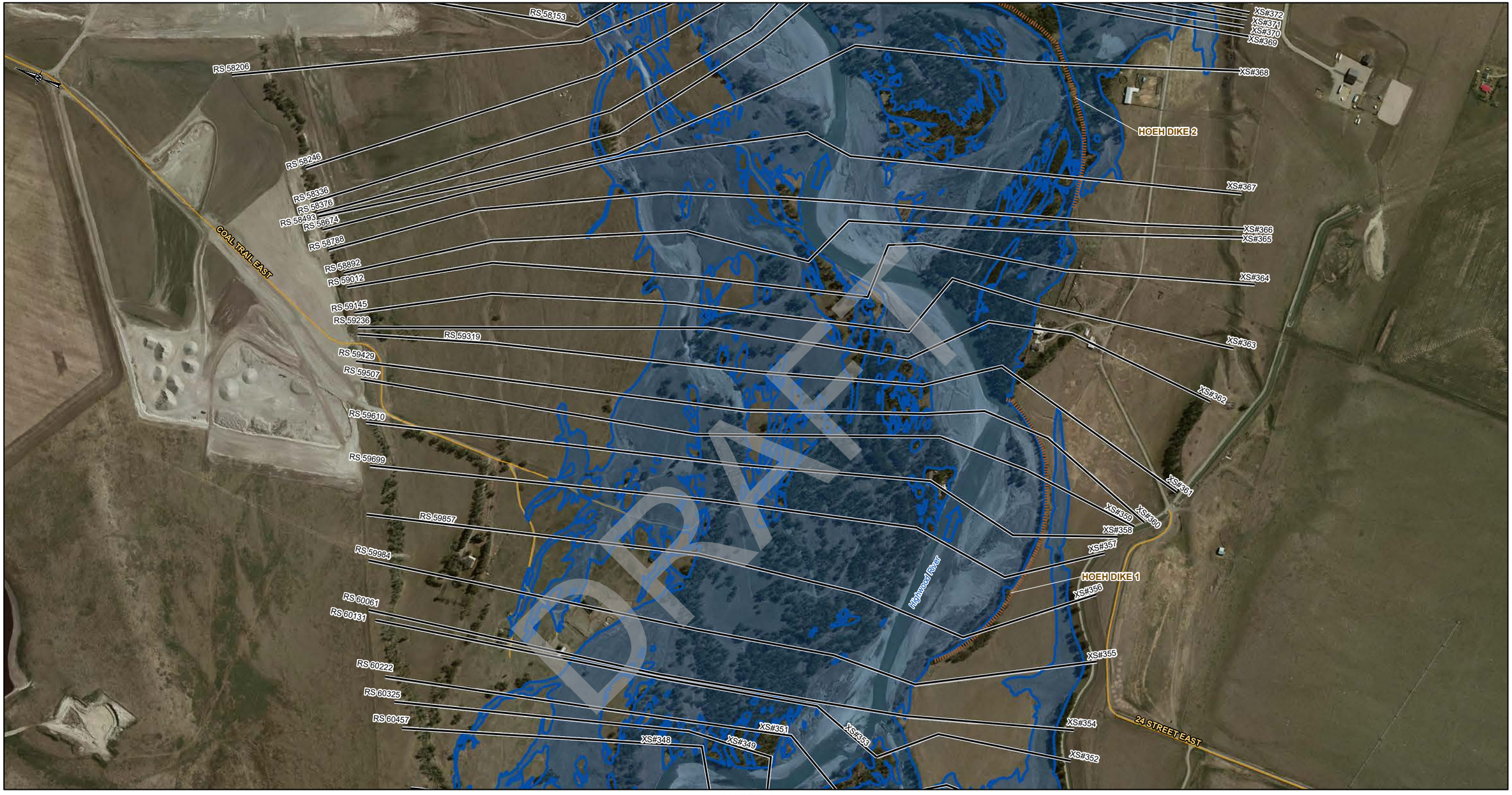
Classification: Public

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

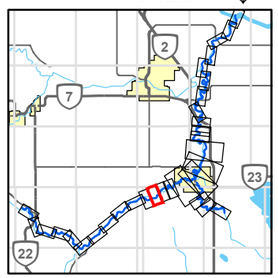
- CULVERT
- WEIR
- BRIDGE

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



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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
50 YEAR INUNDATION EXTENT

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

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25mm
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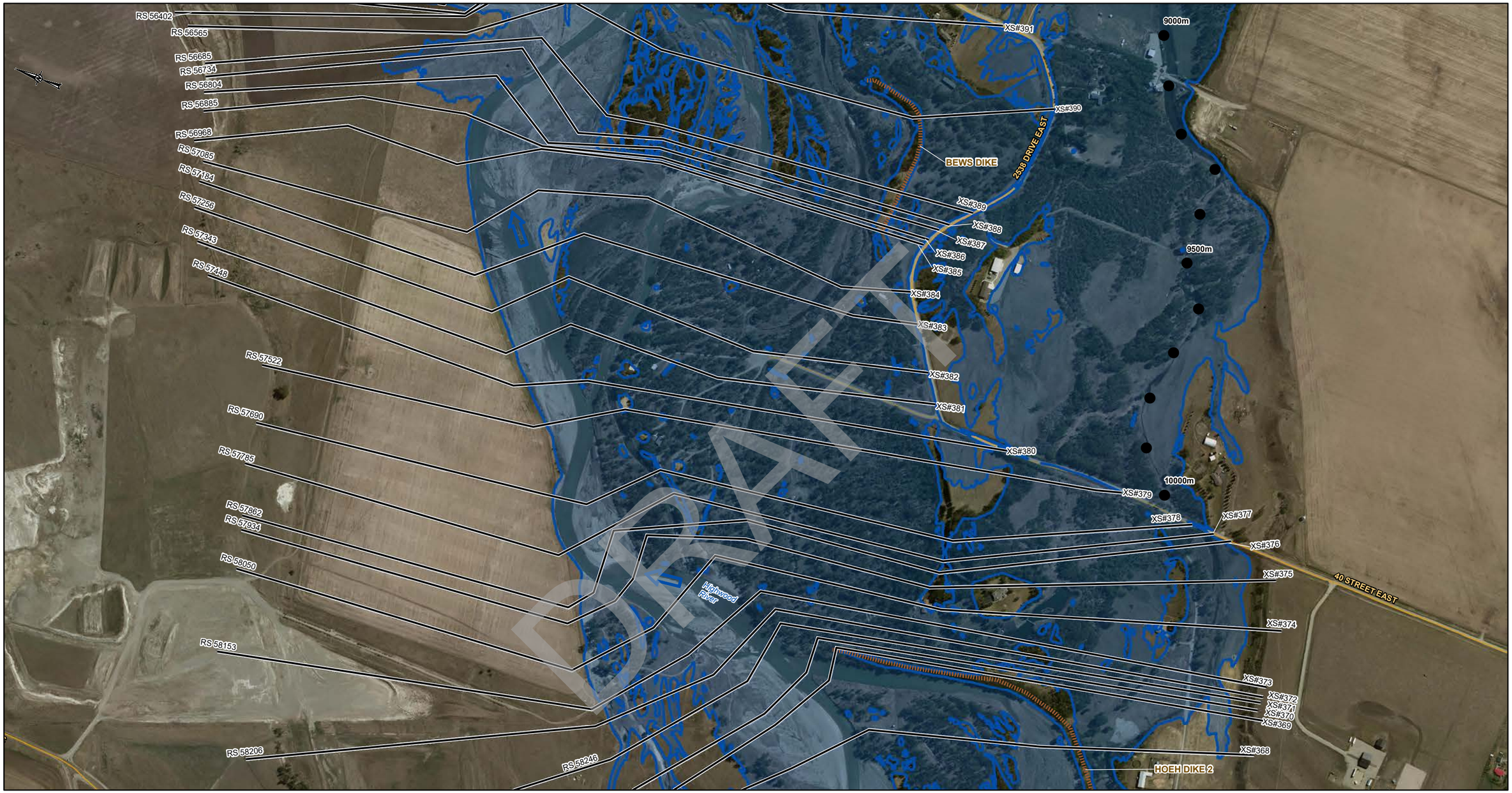
Classification: Public

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
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

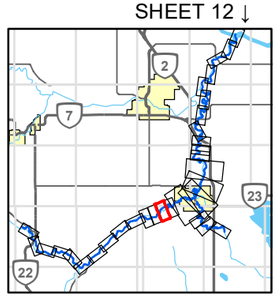
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 13 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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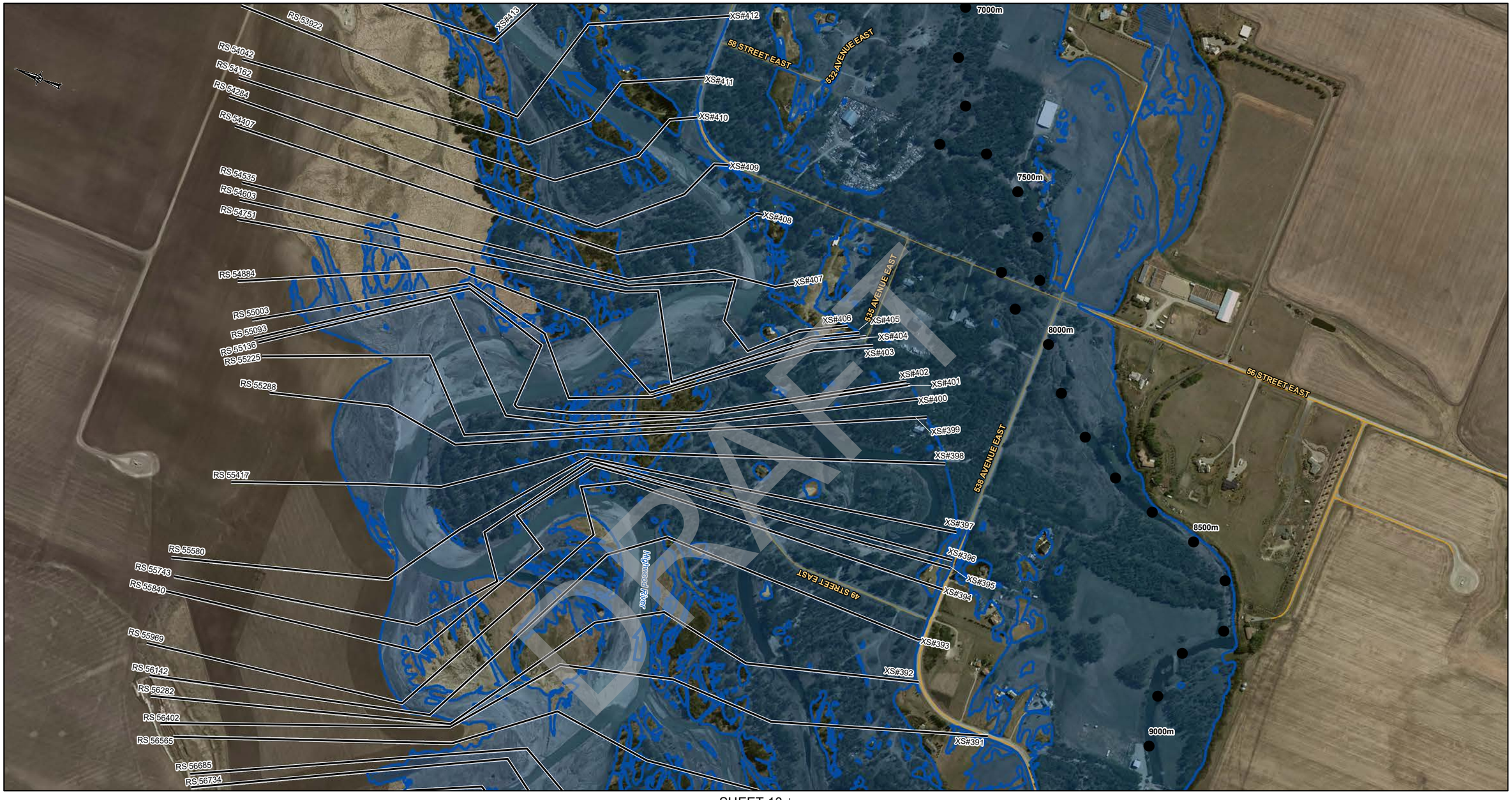
25mm

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

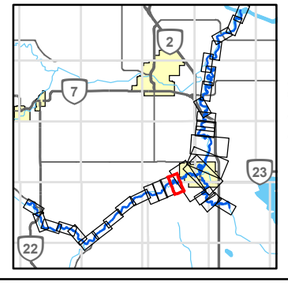
50-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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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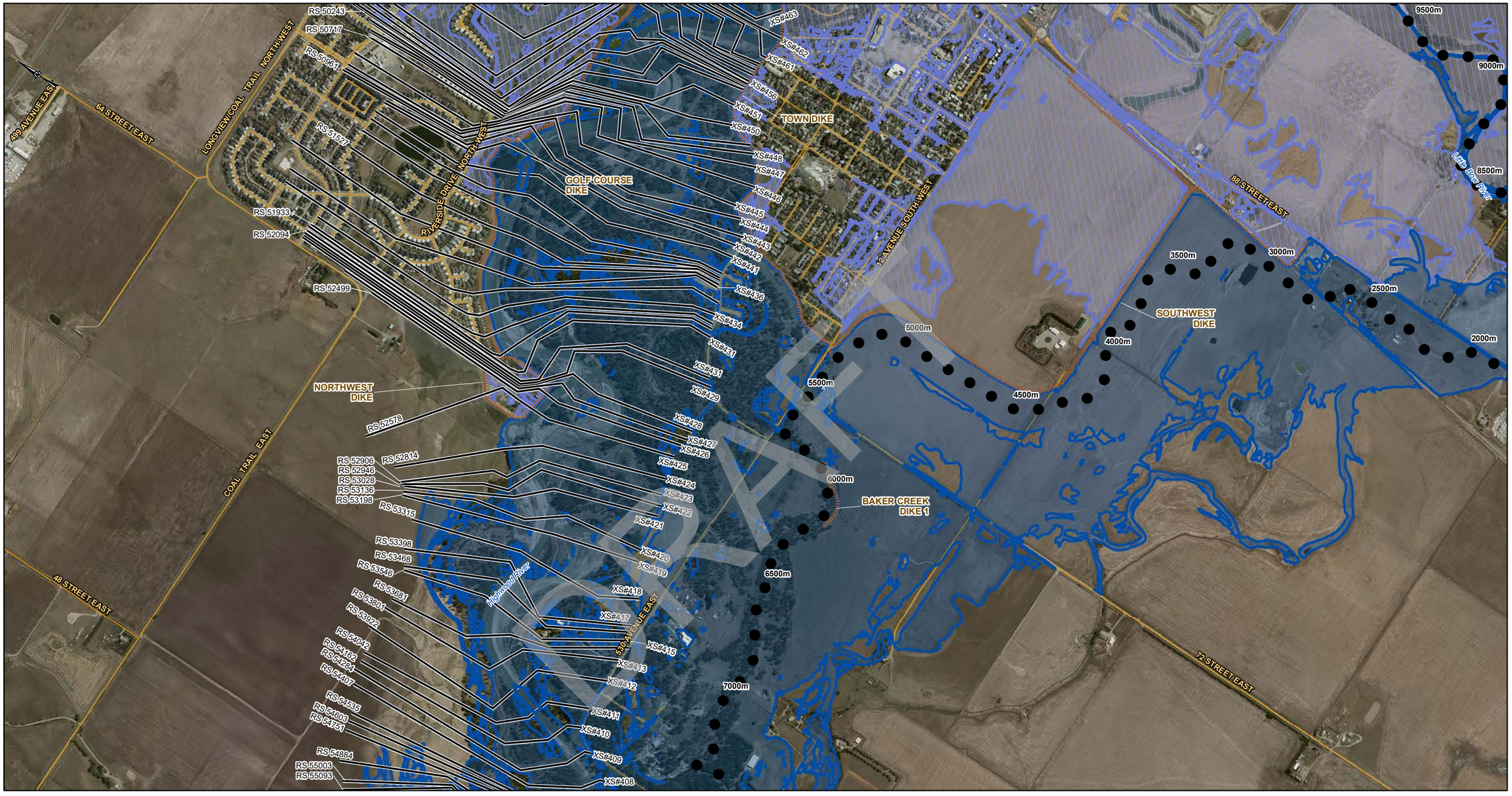
Classification: Public

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

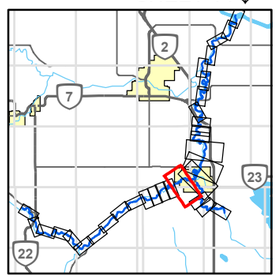
- CULVERT
- WEIR
- BRIDGE

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

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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

25mm

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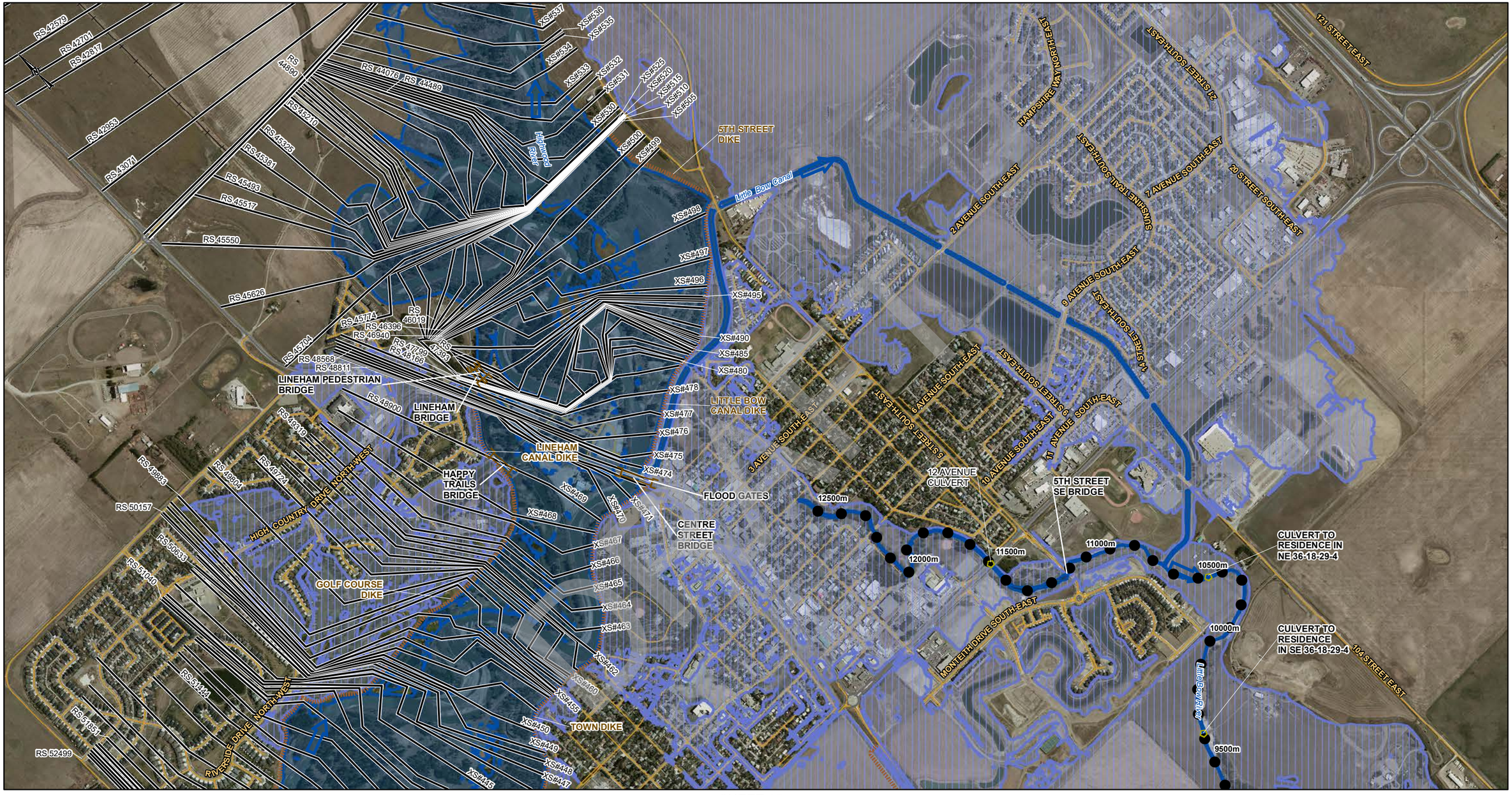
Classification: Public

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

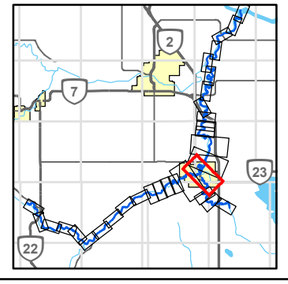
50-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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

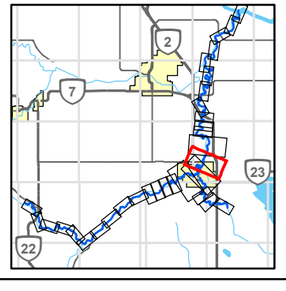
- CULVERT
- WEIR
- BRIDGE

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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DESIGNED	PT
PREPARED	NB
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APPROVED	HZ

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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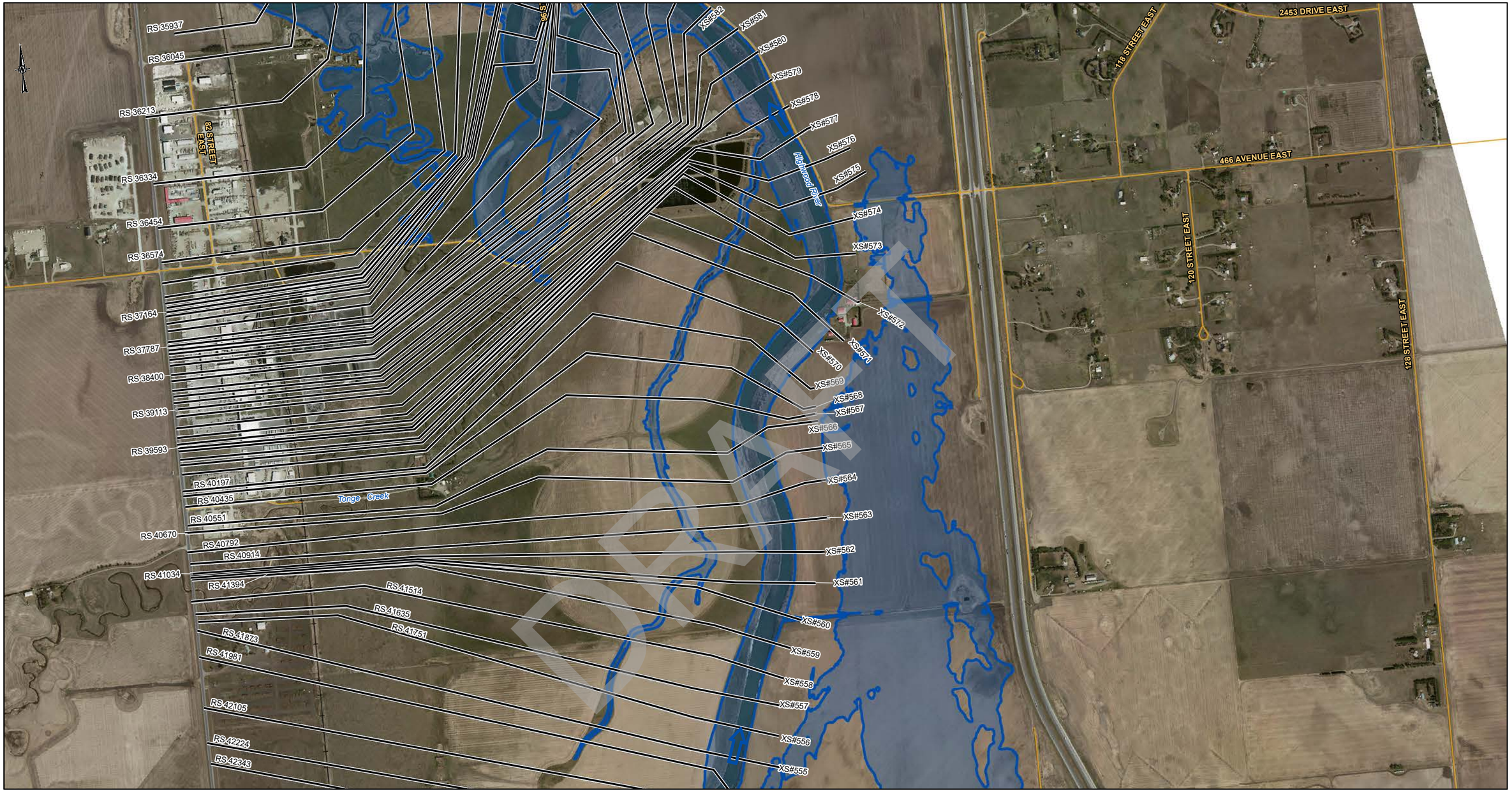
Classification: Public

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

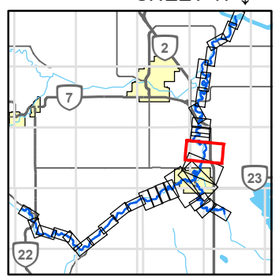
- CULVERT
- WEIR
- BRIDGE

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



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REFERENCE(S)

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ALBERTA ENVIRONMENT AND PARKS

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
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

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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

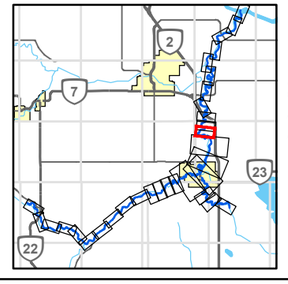
50-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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 ↑



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

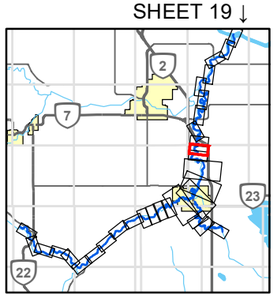
- CULVERT
- WEIR
- BRIDGE

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 ↓



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GOLDER
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YYYY-MM-DD	2022-03-31
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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

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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 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

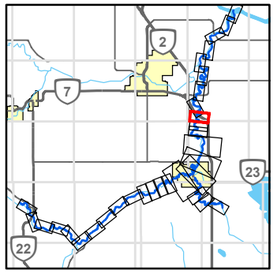
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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

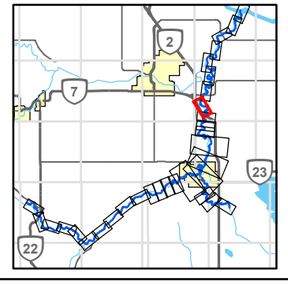
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

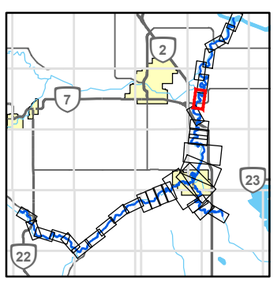
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

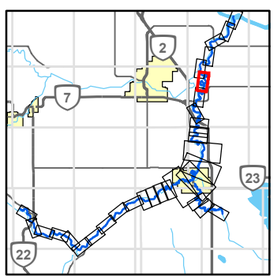
- CULVERT
- WEIR
- BRIDGE

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



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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

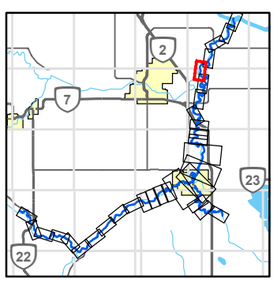
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

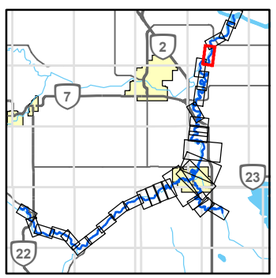
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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

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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 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

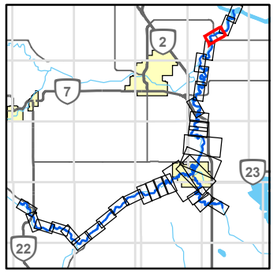
- CULVERT
- WEIR
- BRIDGE

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



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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
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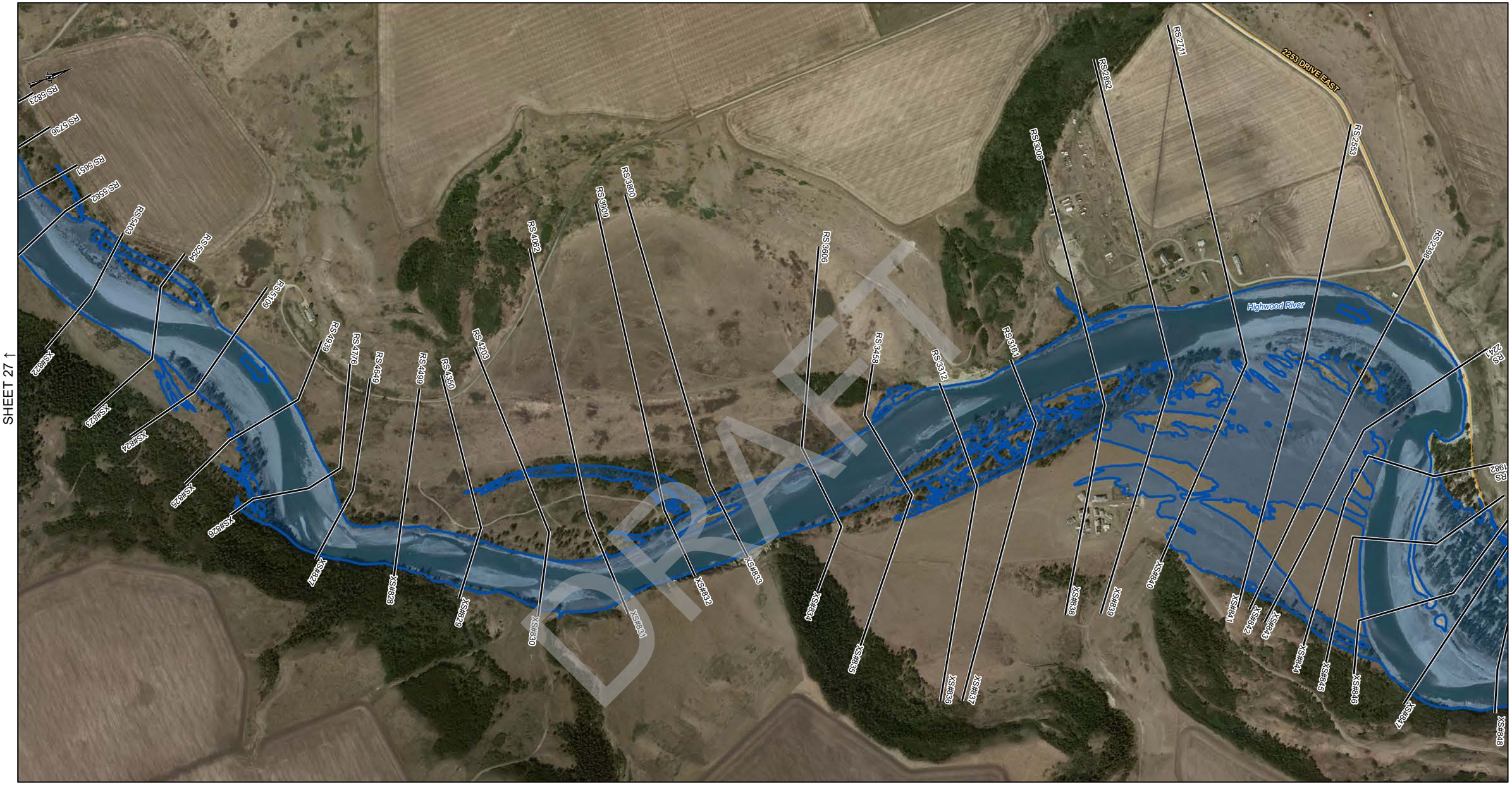
Classification: Public



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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

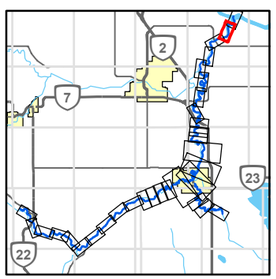
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

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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

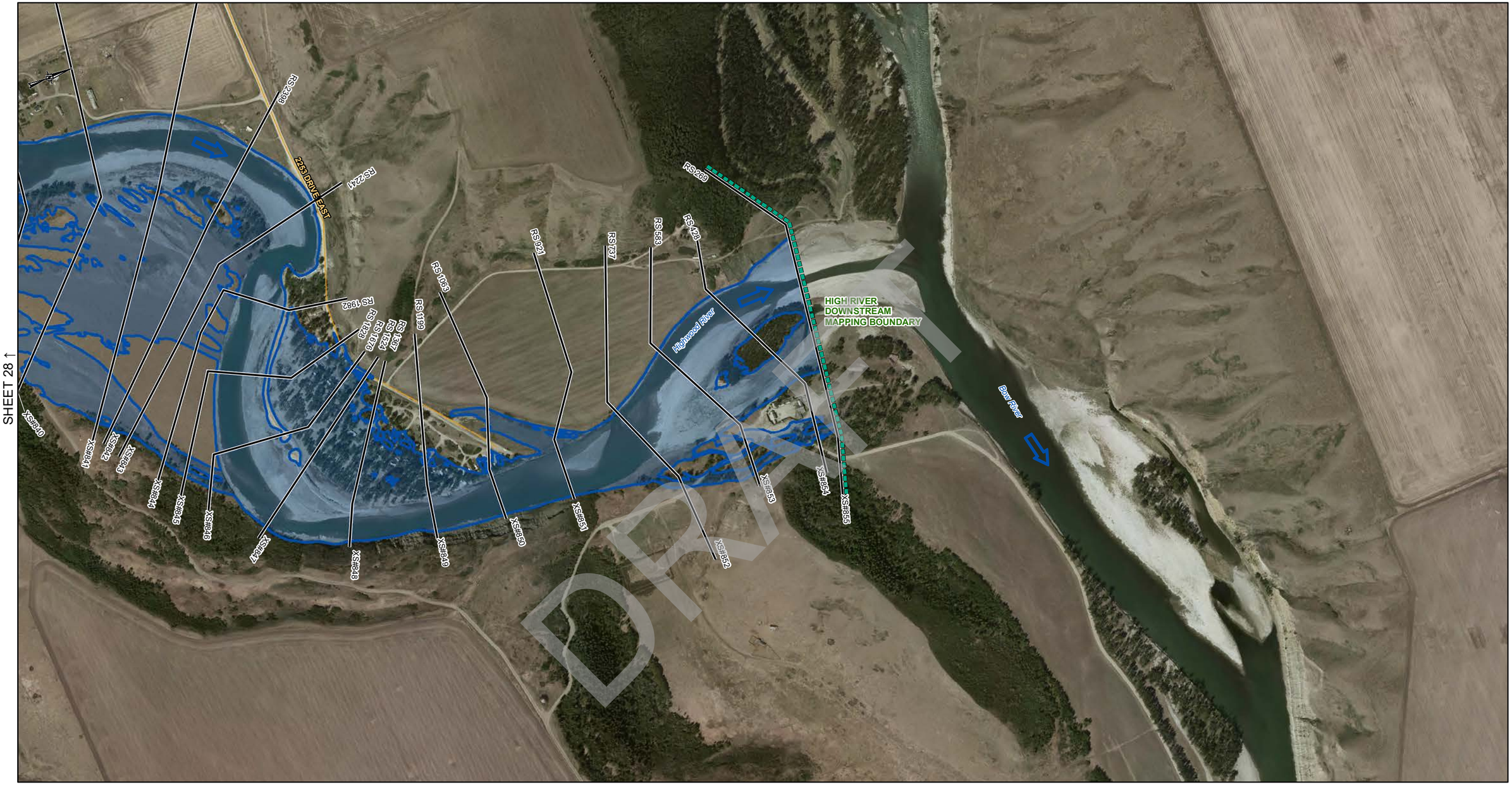
25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0050y-Inundation_Rev0.mxd

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

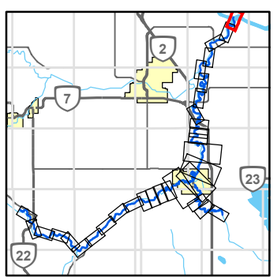
HYDRAULIC STRUCTURES

- 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

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
50 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_0650y-Inundation_Rev0.mxd

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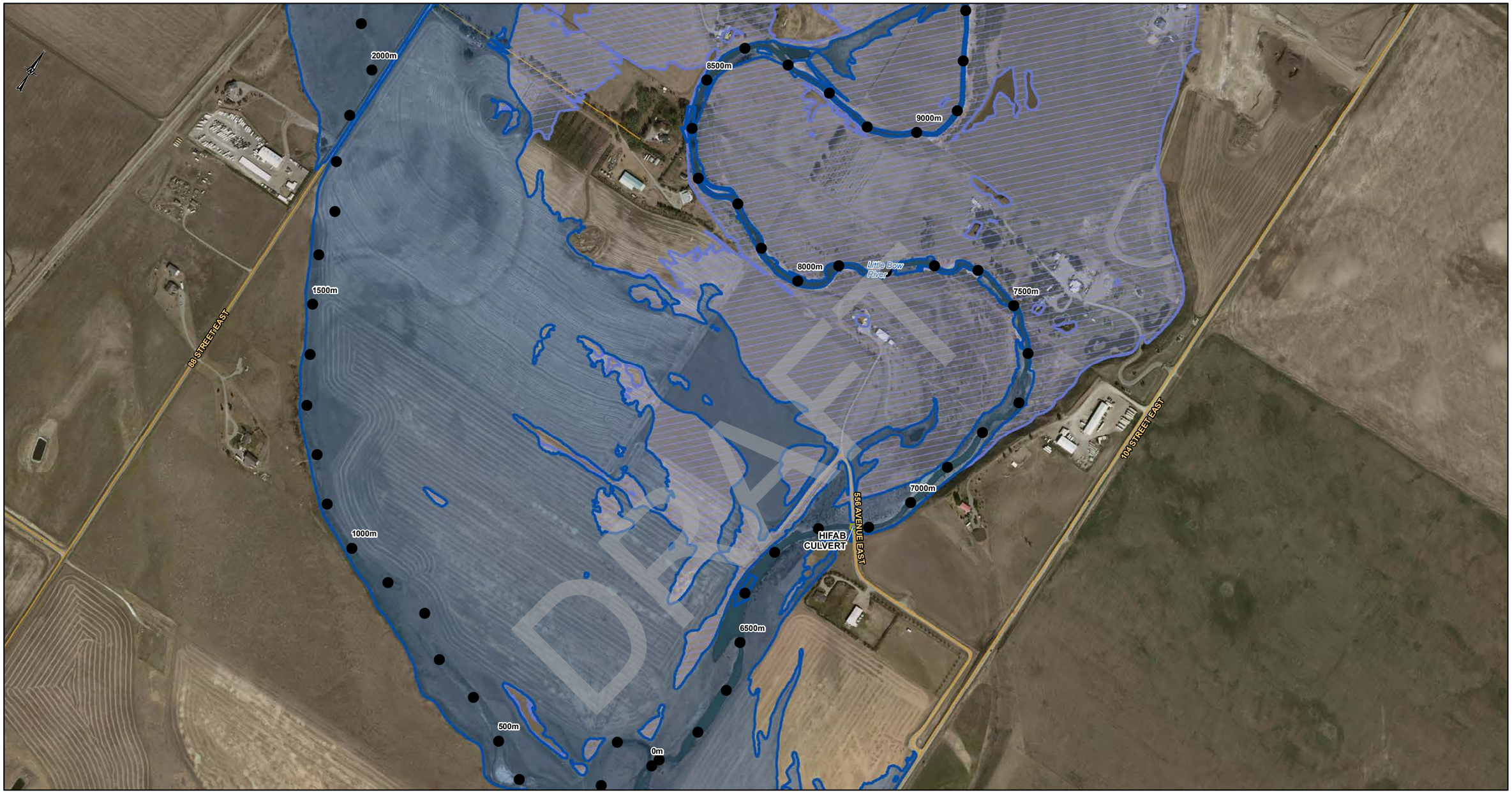
Classification: Public

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

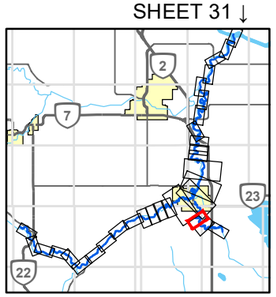
- CULVERT
- WEIR
- BRIDGE

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
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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
50 YEAR INUNDATION EXTENT

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

DRAFT

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25mm
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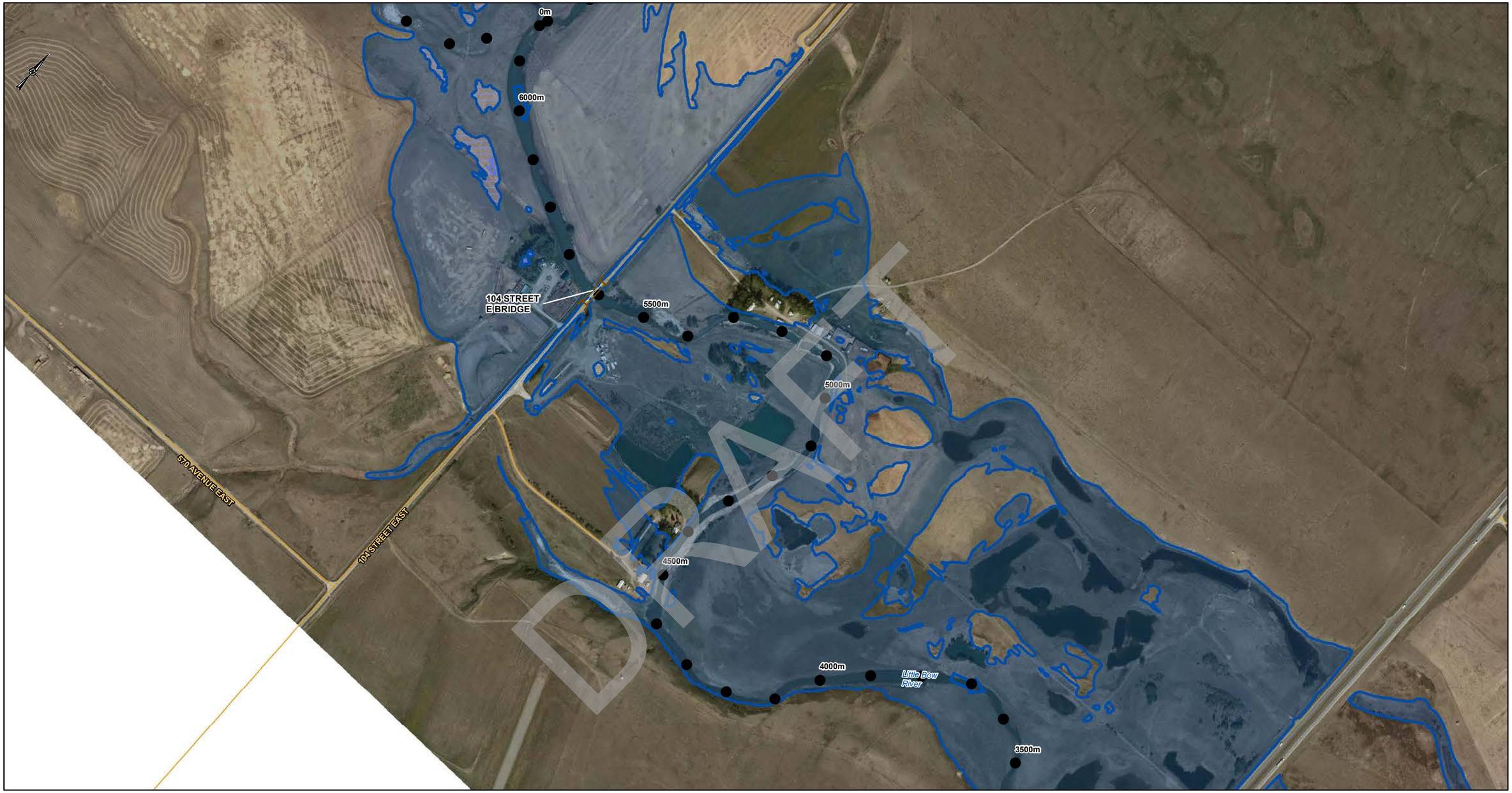
Classification: Public

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

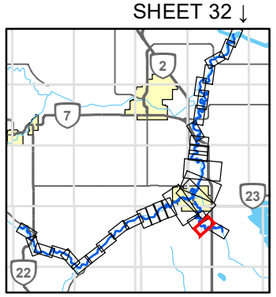
50-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
50 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

25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0050y-Inundation_Rev0.mxd

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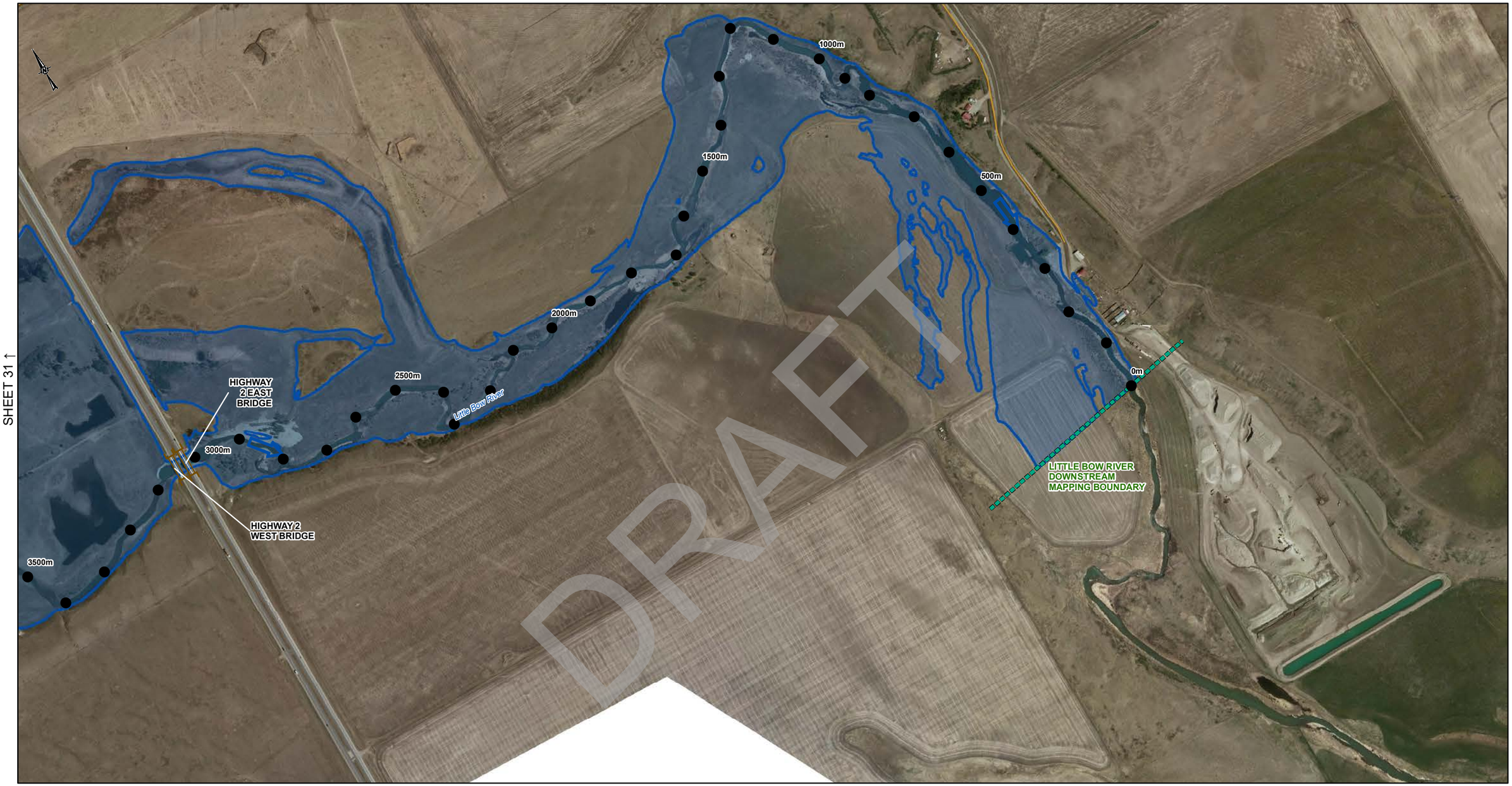


SHEET 31 ↑

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

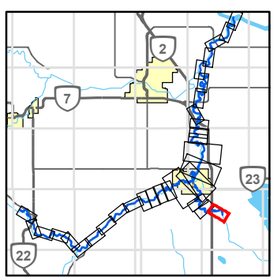
HYDRAULIC STRUCTURES

- 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



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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
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

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

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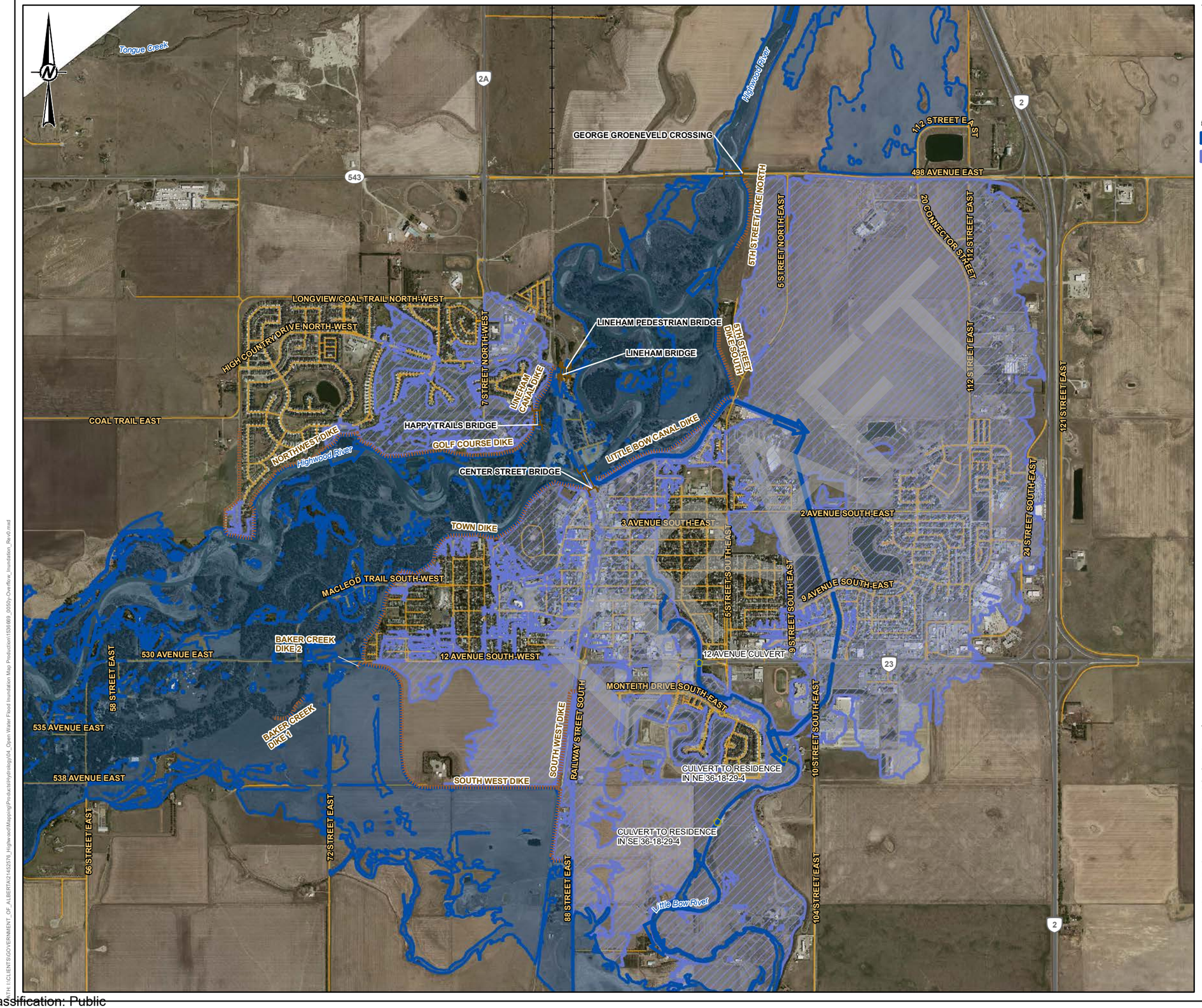
Classification: Public



LEGEND

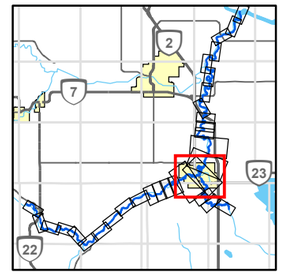
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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



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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
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

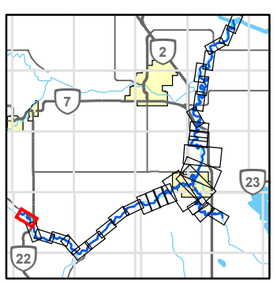
HYDRAULIC STRUCTURES

- 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



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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
75 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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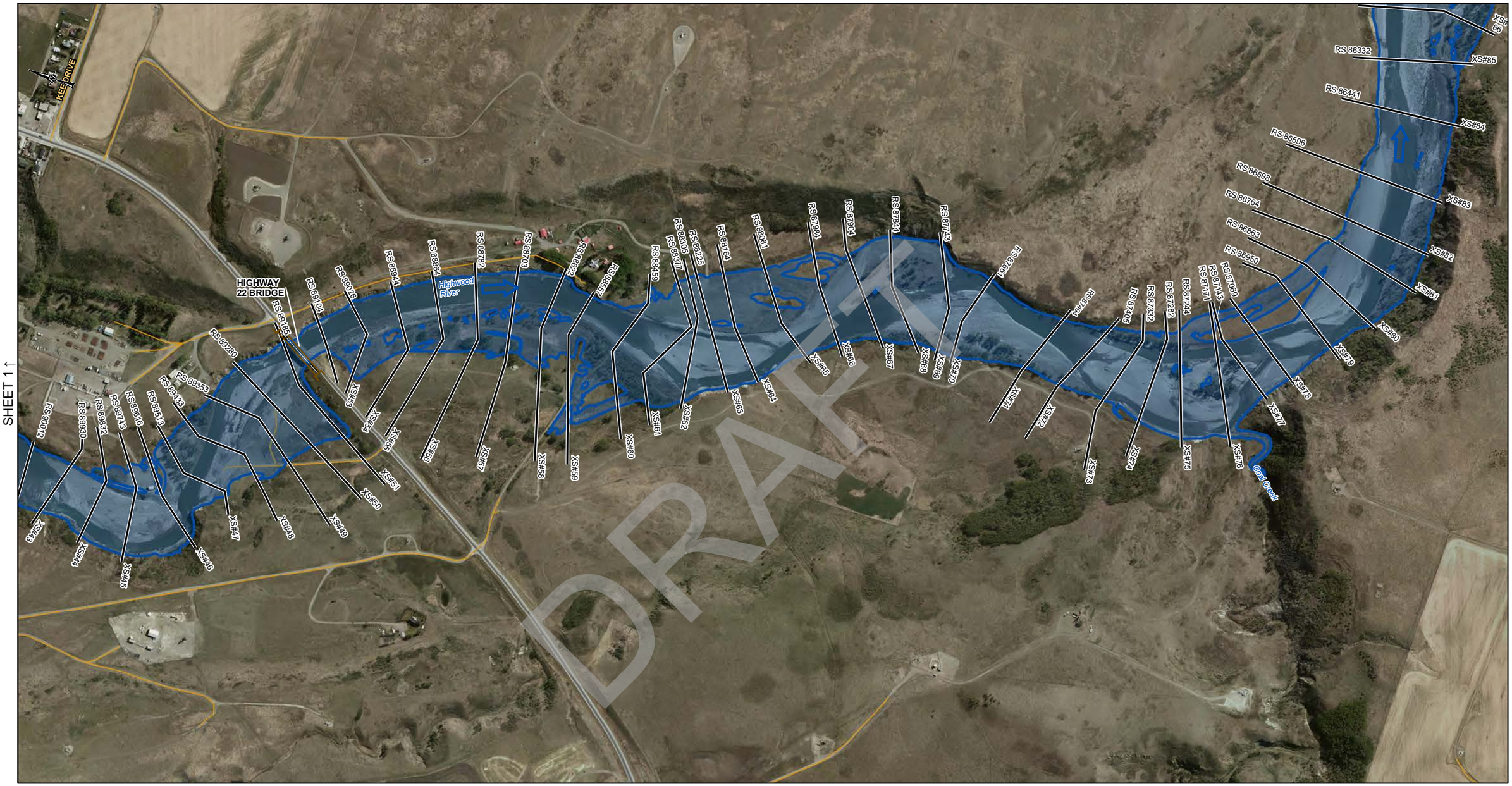
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-Inundation_Rev0.mxd

Classification: Public



SHEET 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

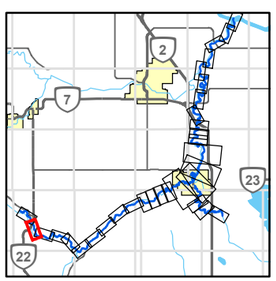
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

CONSULTANT
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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
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

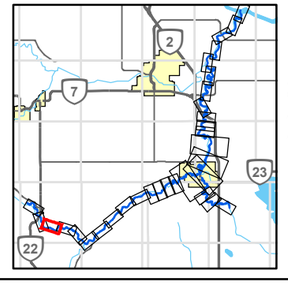
- CULVERT
- WEIR
- BRIDGE

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



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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 3 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\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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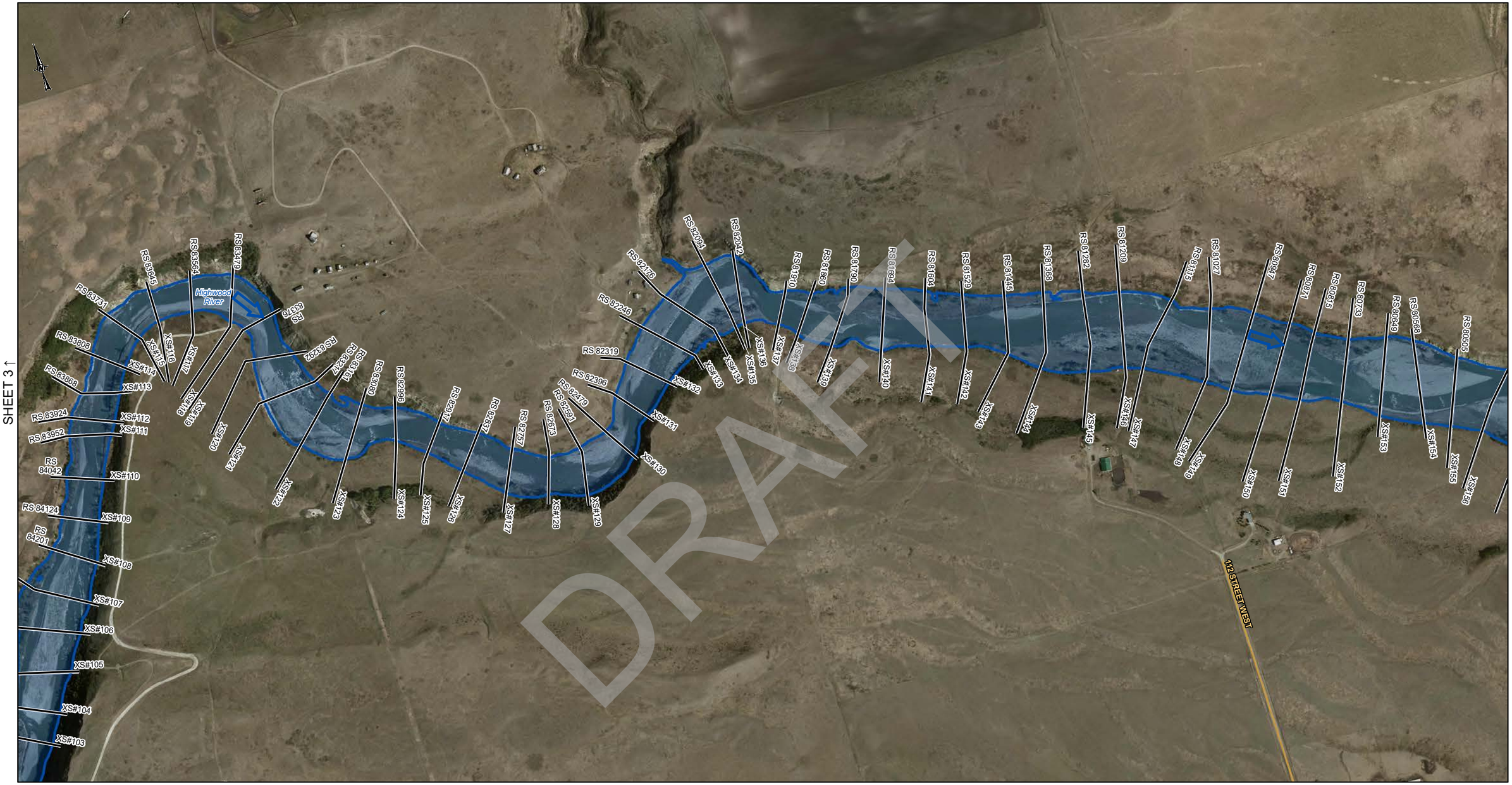
Classification: Public

SHEET 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

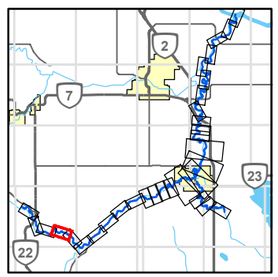
- CULVERT
- WEIR
- BRIDGE

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

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21402576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-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

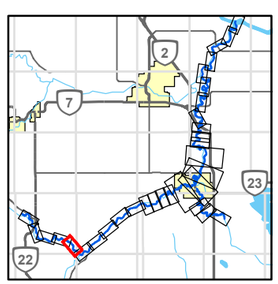
- CULVERT
- WEIR
- BRIDGE

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



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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

REFERENCE(S)

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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 5 of 33

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

25mm

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 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

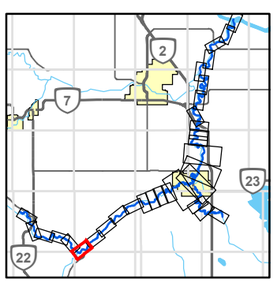
- CULVERT
- WEIR
- BRIDGE

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



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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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PREPARED	NB
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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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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

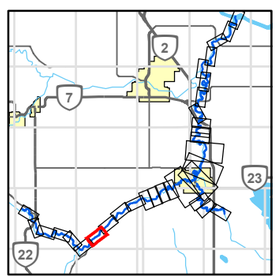
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 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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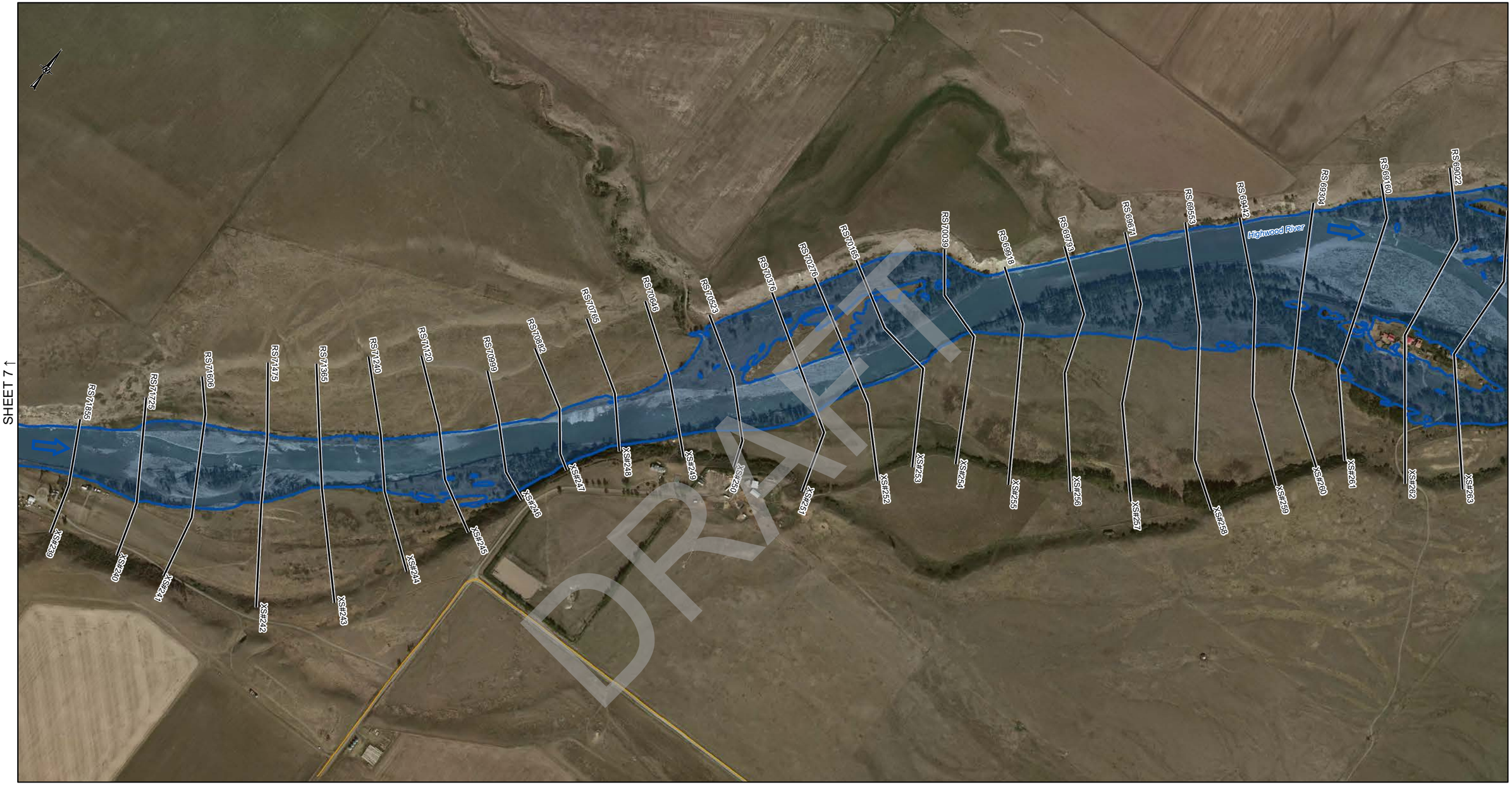
Classification: Public



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

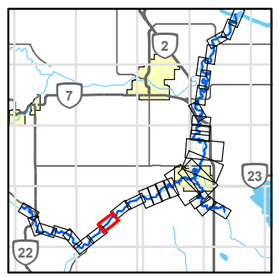
HYDRAULIC STRUCTURES

- 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



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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

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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

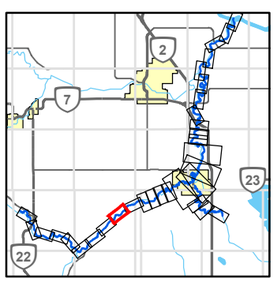
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 1210 M^3/S



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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

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25mm

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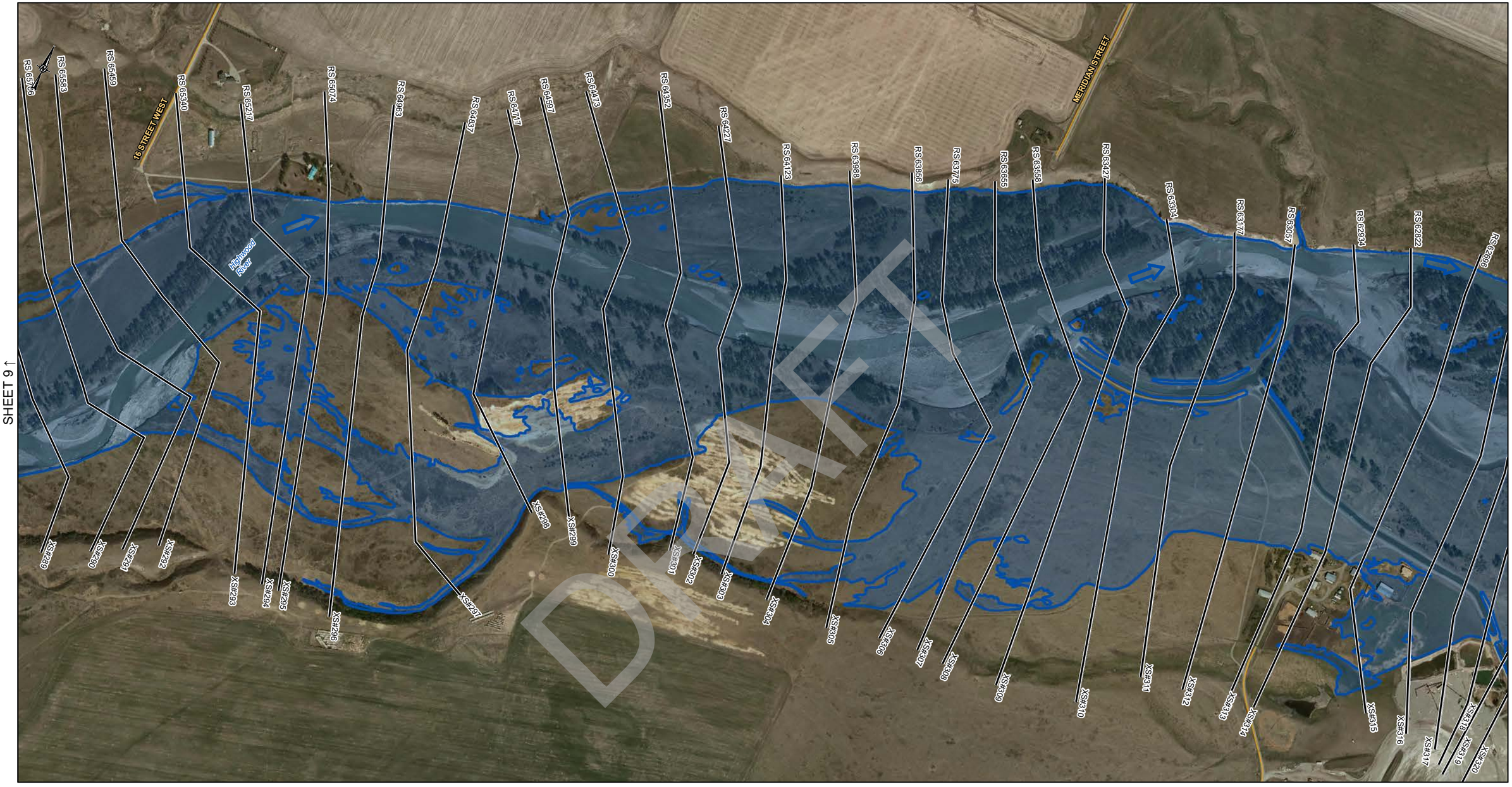
Classification: Public

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

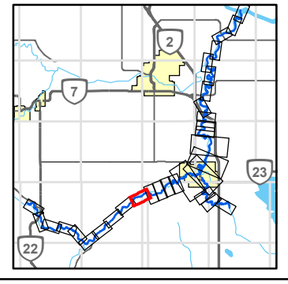
- CULVERT
- WEIR
- BRIDGE

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



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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 10 of 33

25mm

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

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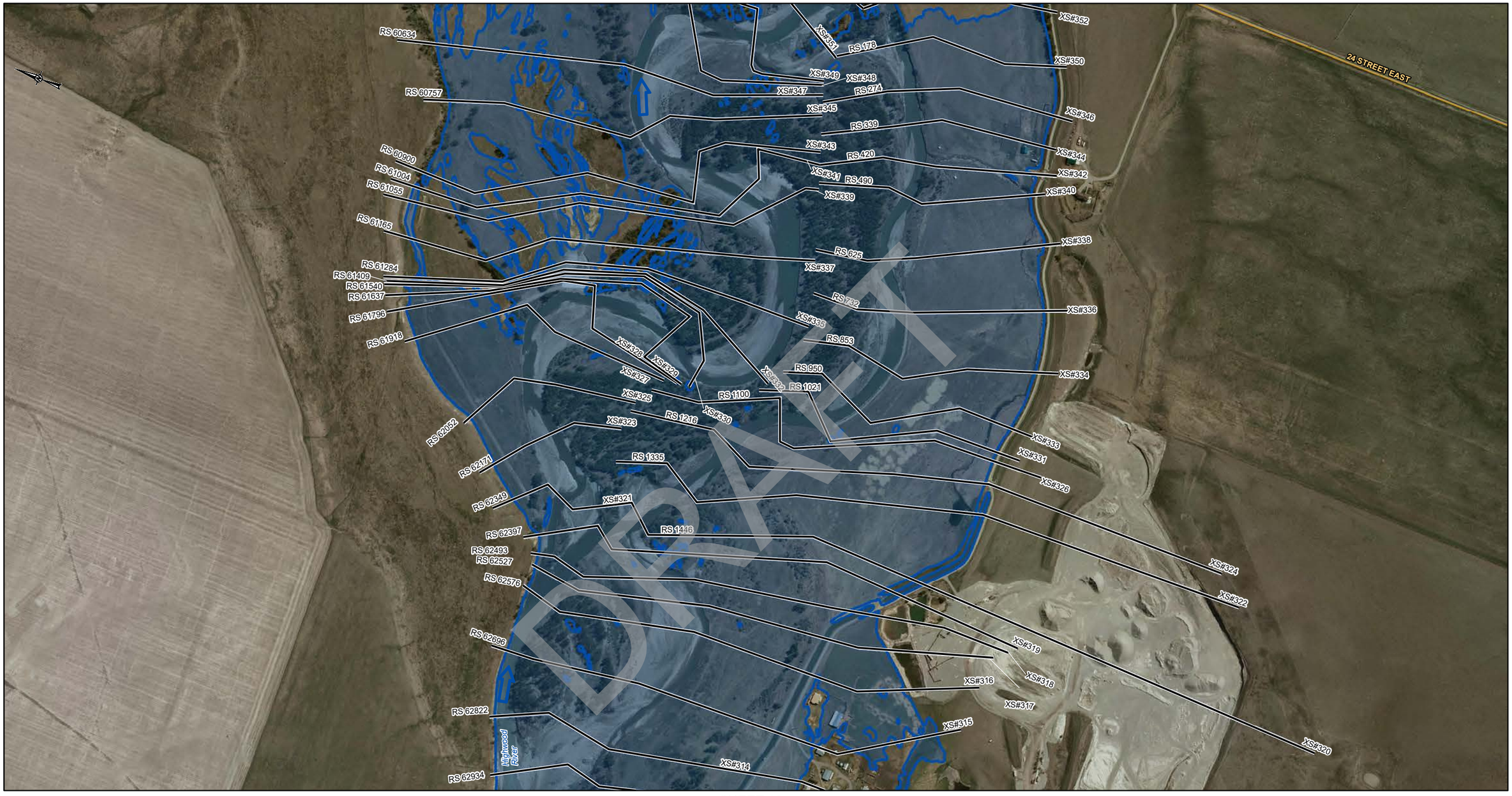
Classification: Public

SHEET 12 ↑



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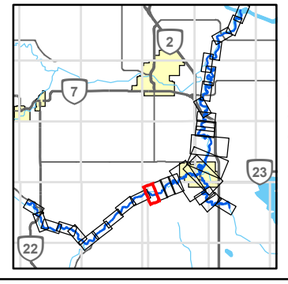

LEGEND

- 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 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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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-Inundation_Rev0.mxd

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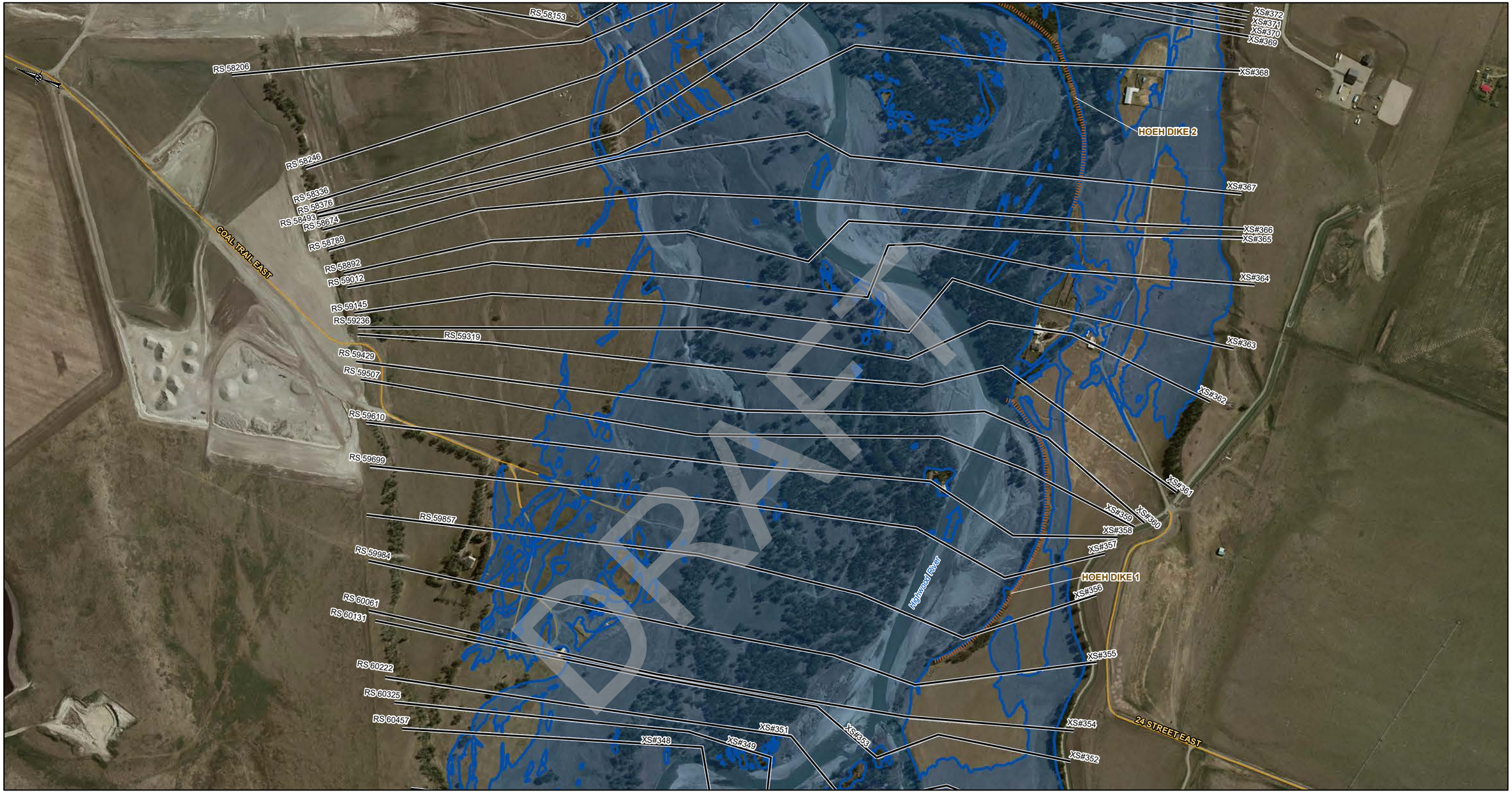
Classification: Public

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

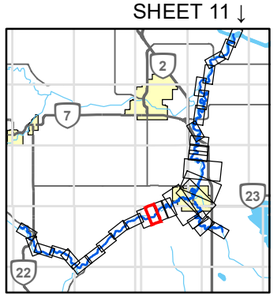
- CULVERT
- WEIR
- BRIDGE

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



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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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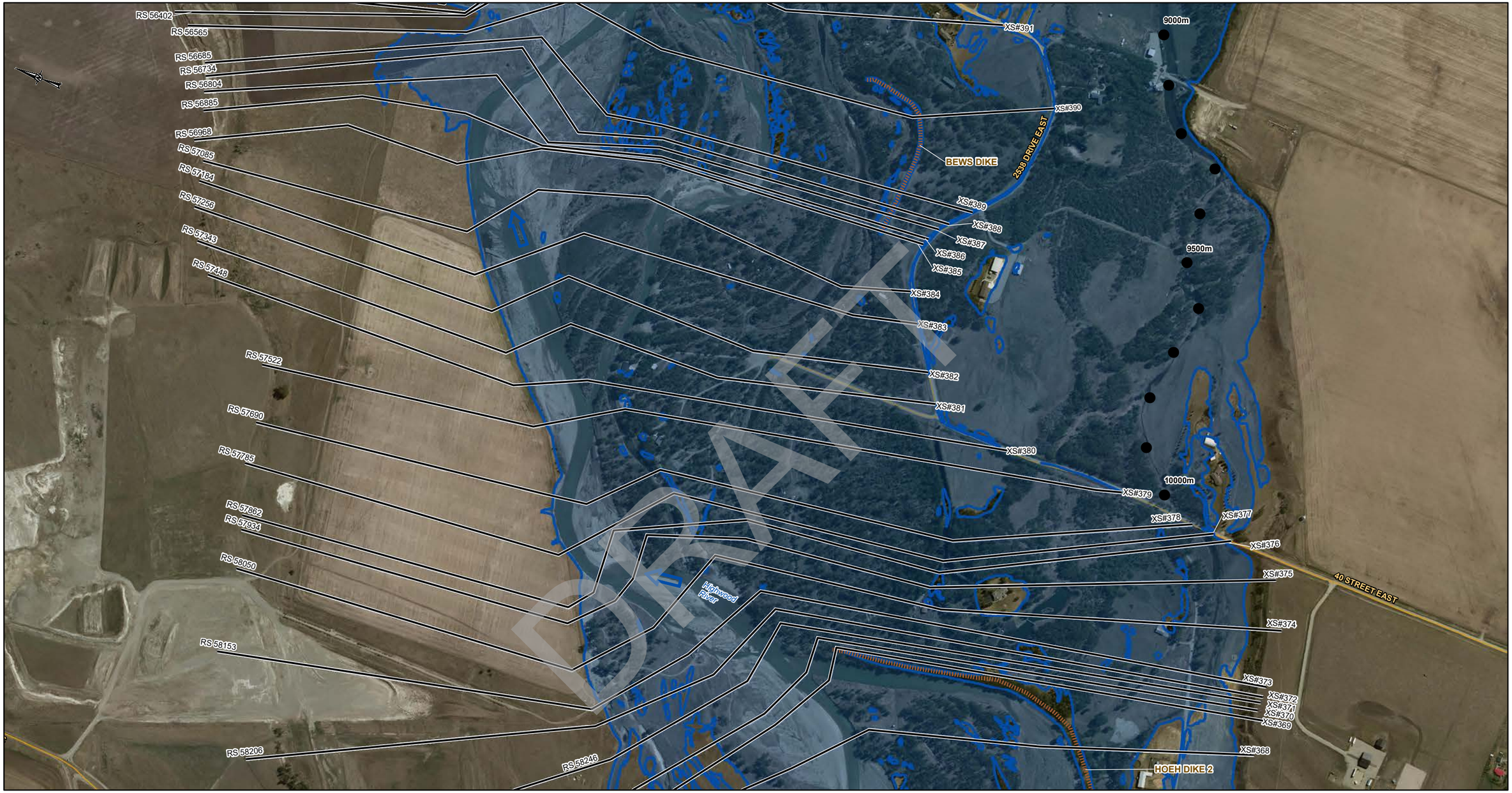
Classification: Public

SHEET 14 ↑



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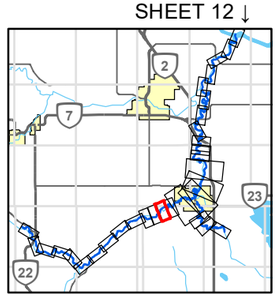

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
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- 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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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

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

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25mm

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Classification: Public

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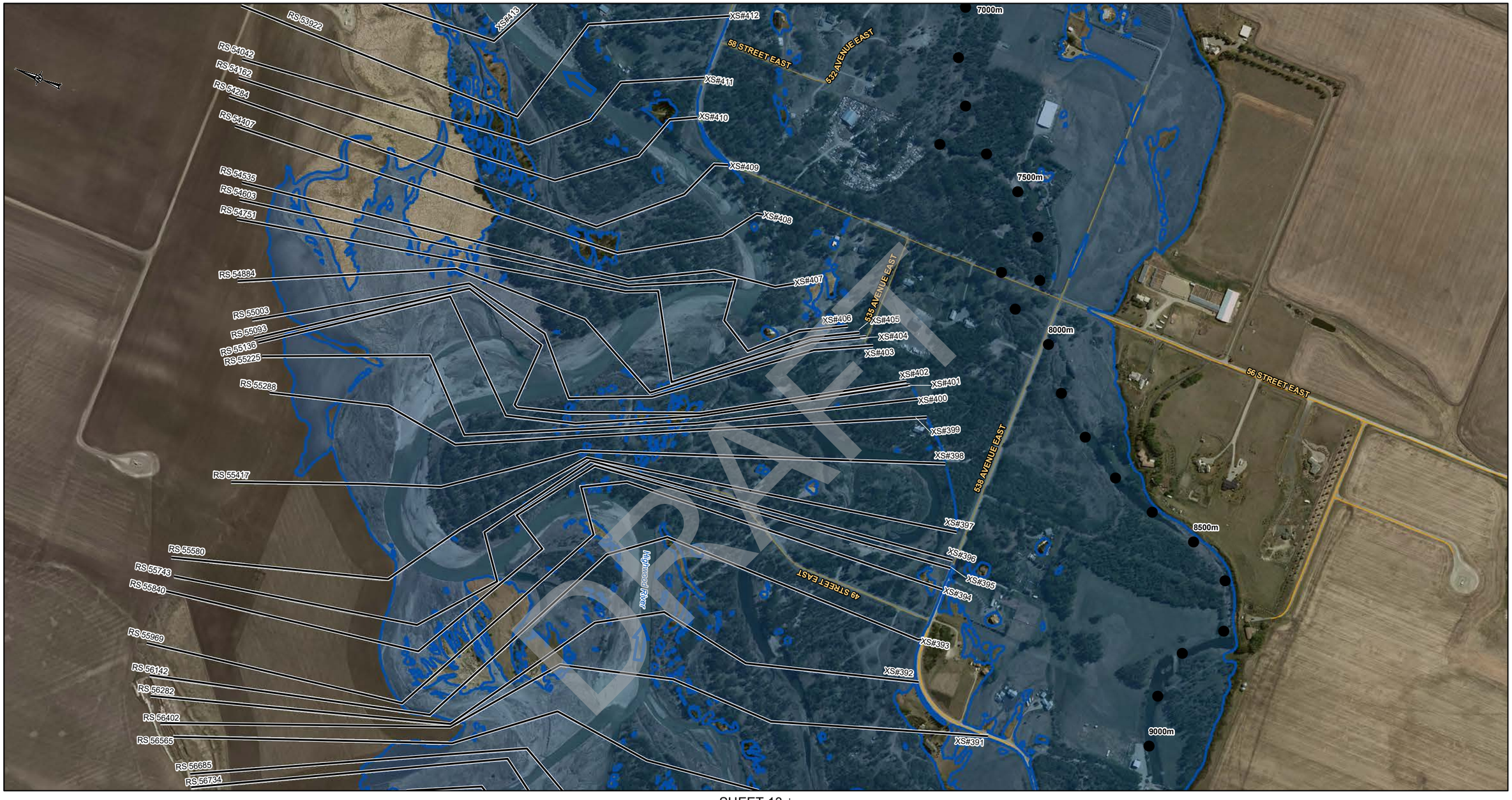

DRAFT

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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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

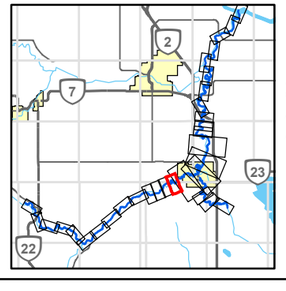
75-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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
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

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 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

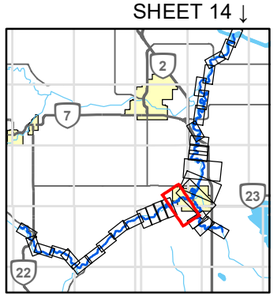
- CULVERT
- WEIR
- BRIDGE

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 ↓



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REFERENCE(S)

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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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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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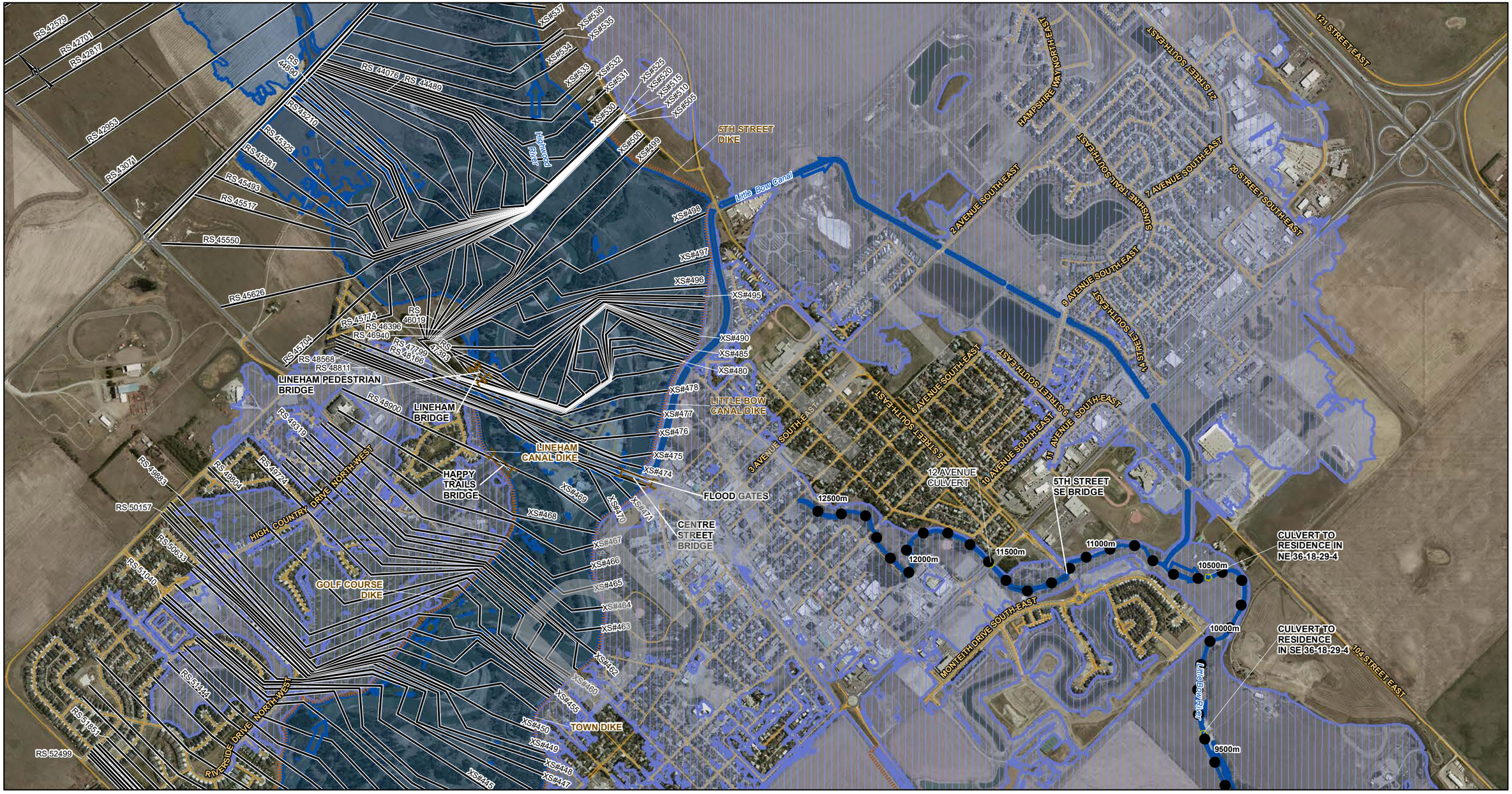
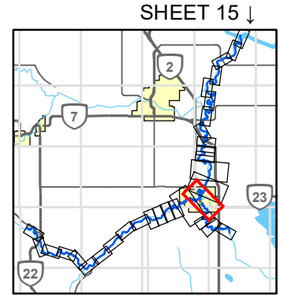
Classification: Public

SHEET 17 ↑



SHEET 30 ↓

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

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

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HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

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

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Classification: Public

SHEET 18 ↑


RS 40551
RS 40792
RS 40914
RS 41084
RS 41274
RS 41514
RS 41635
RS 41751
RS 41873
RS 41981
RS 42105
RS 42224
RS 42343
RS 42461
RS 42579
RS 42701
RS 42817
RS 42953
RS 43071
RS 43189
RS 43307
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RS 43897
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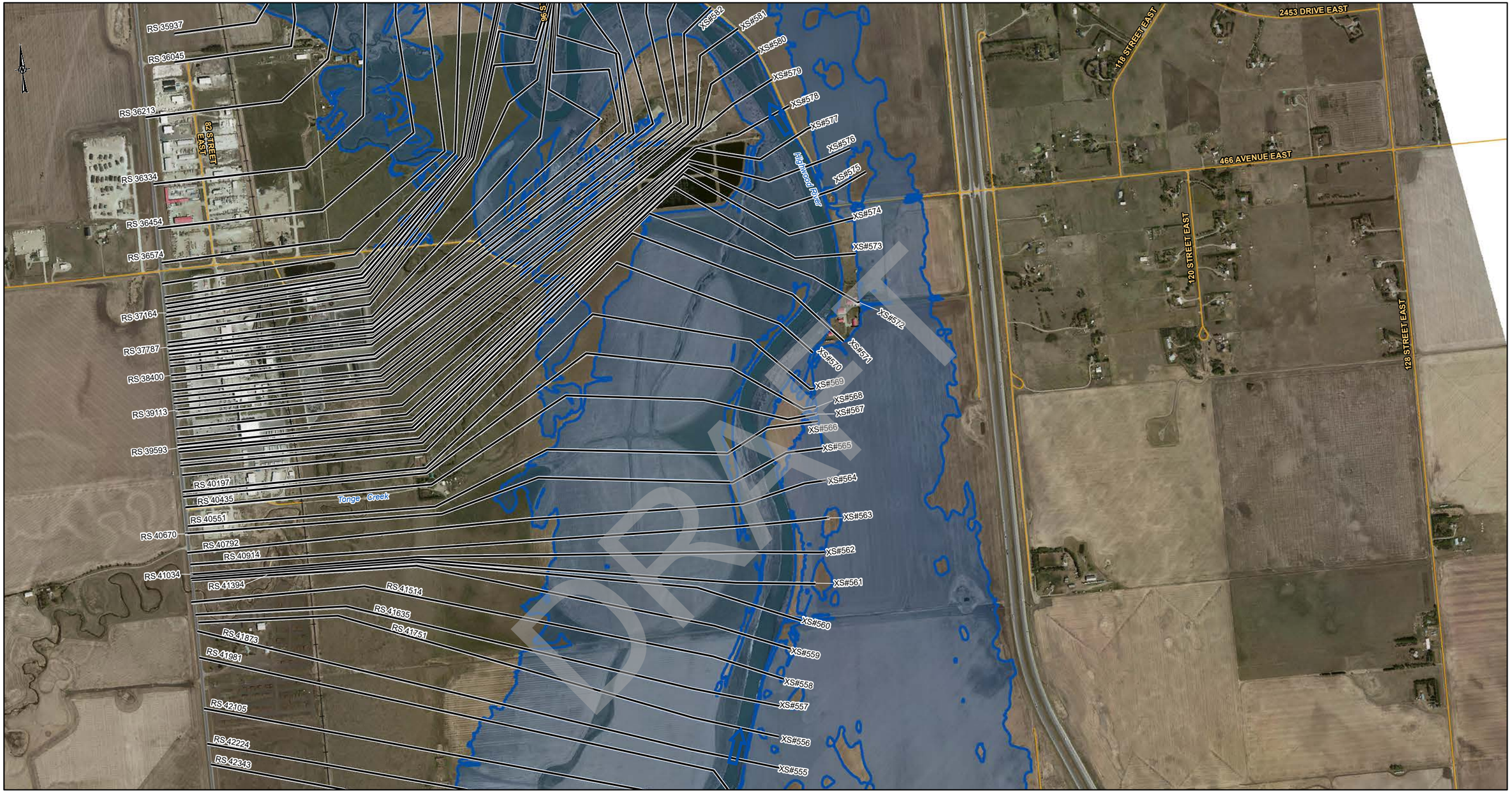
SHEET 19 ↑



SHEET 17 ↓

LEGEND

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

HYDRAULIC STRUCTURES

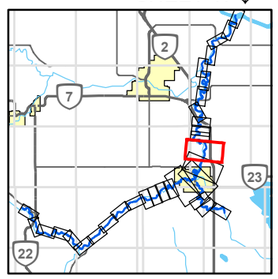
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



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GOLDER
MEMBER OF WSP

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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 18 of 33

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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

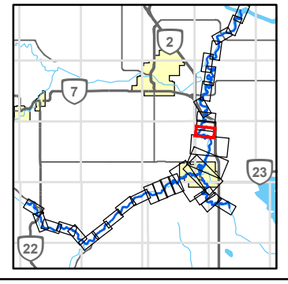
- CULVERT
- WEIR
- BRIDGE

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 ↓



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HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

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

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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

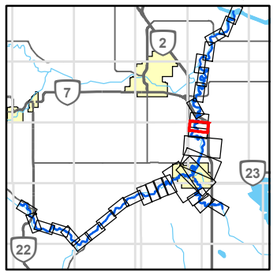
75-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

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

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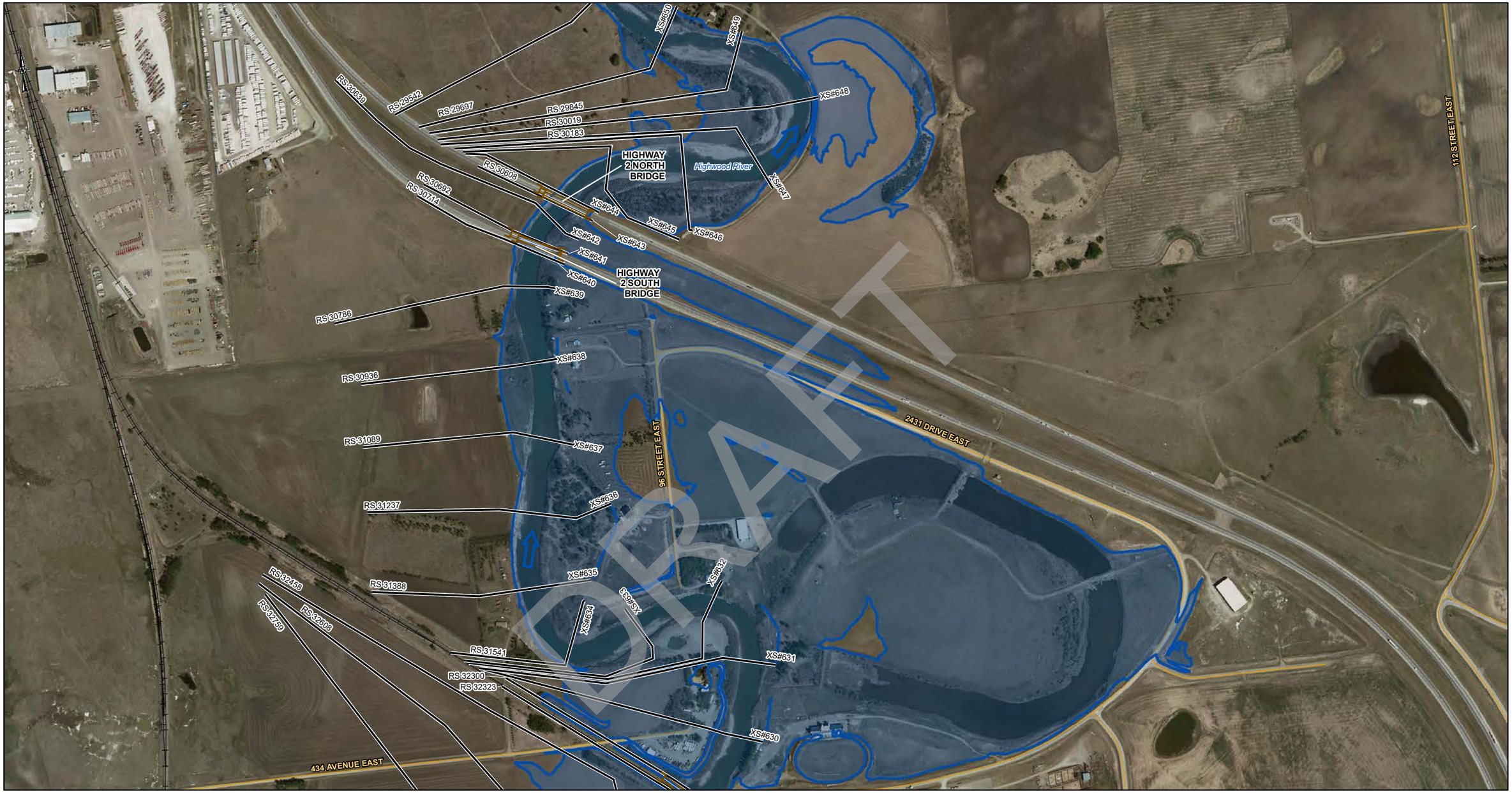
Classification: Public

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

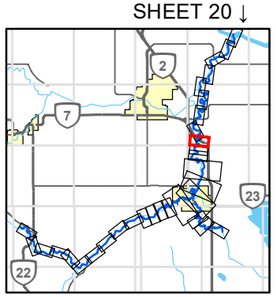
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S

SHEET 20 ↓



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 YEAR INUNDATION EXTENT

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

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Classification: Public

SHEET 21 ↑

SHEET 23 ↓



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LEGEND

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

HYDRAULIC STRUCTURES

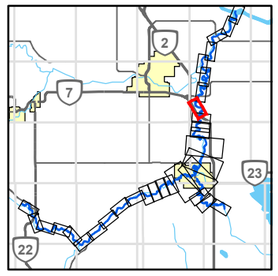
- CULVERT
- WEIR
- BRIDGE

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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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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Classification: Public



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LEGEND

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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

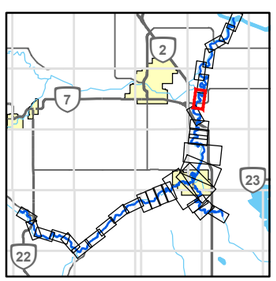
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



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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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

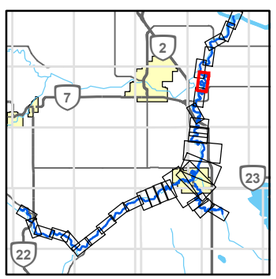
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S



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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

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25mm
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Classification: Public

SHEET 24 ↑

SHEET 26 ↓



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LEGEND

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

HYDRAULIC STRUCTURES

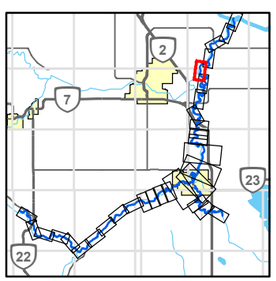
- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 922 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 1662 M^3/S



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PROJECT
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TITLE
75 YEAR INUNDATION EXTENT

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

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

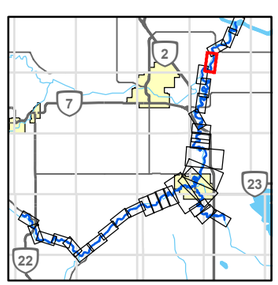
HYDRAULIC STRUCTURES

- 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



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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
75 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_0075r-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

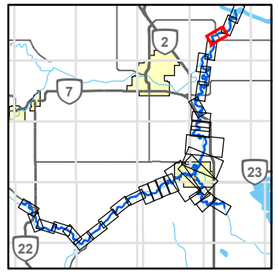
- CULVERT
- WEIR
- BRIDGE

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



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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 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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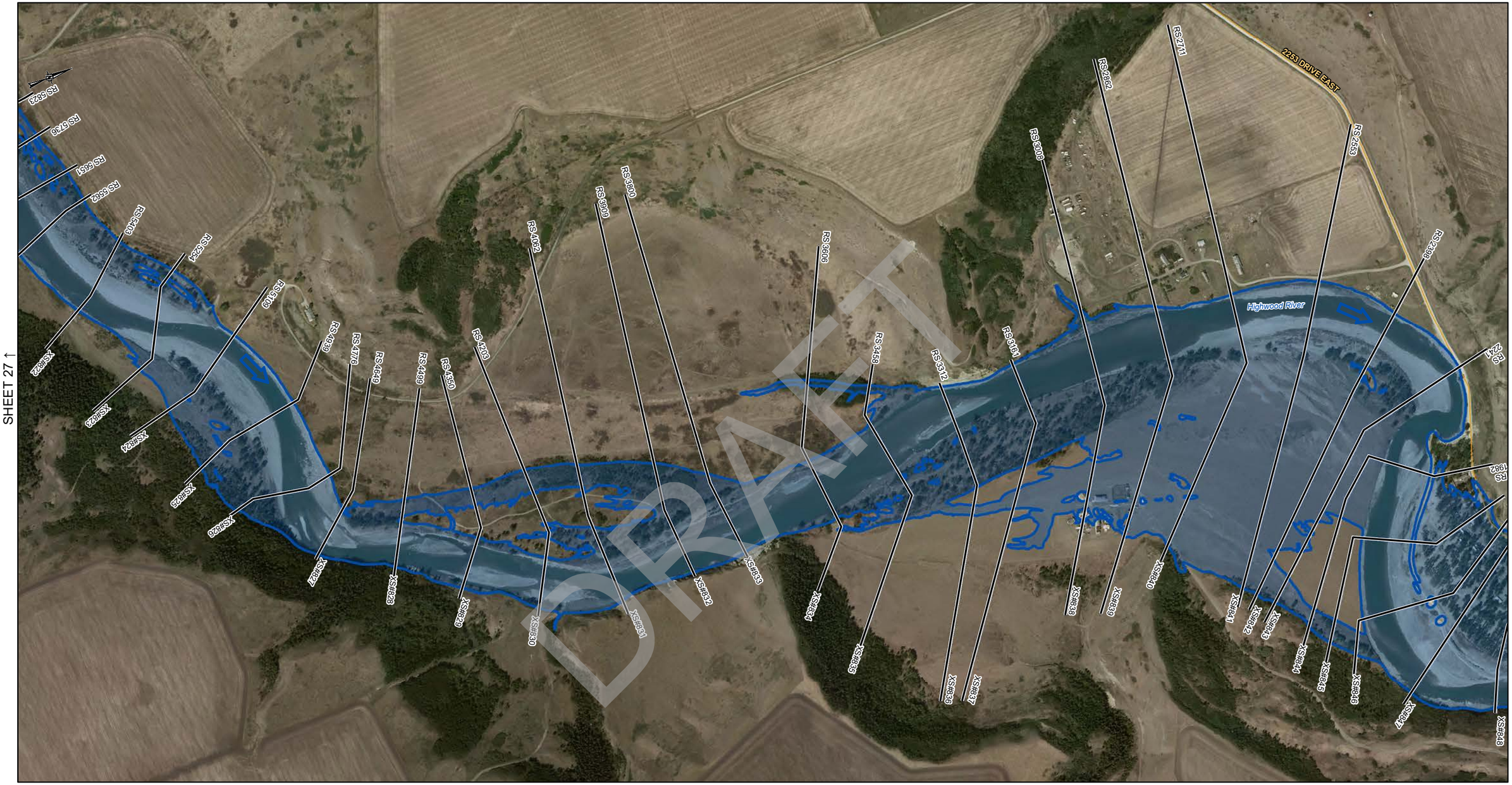
Classification: Public



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

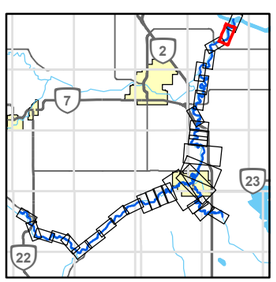
HYDRAULIC STRUCTURES

- 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



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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

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

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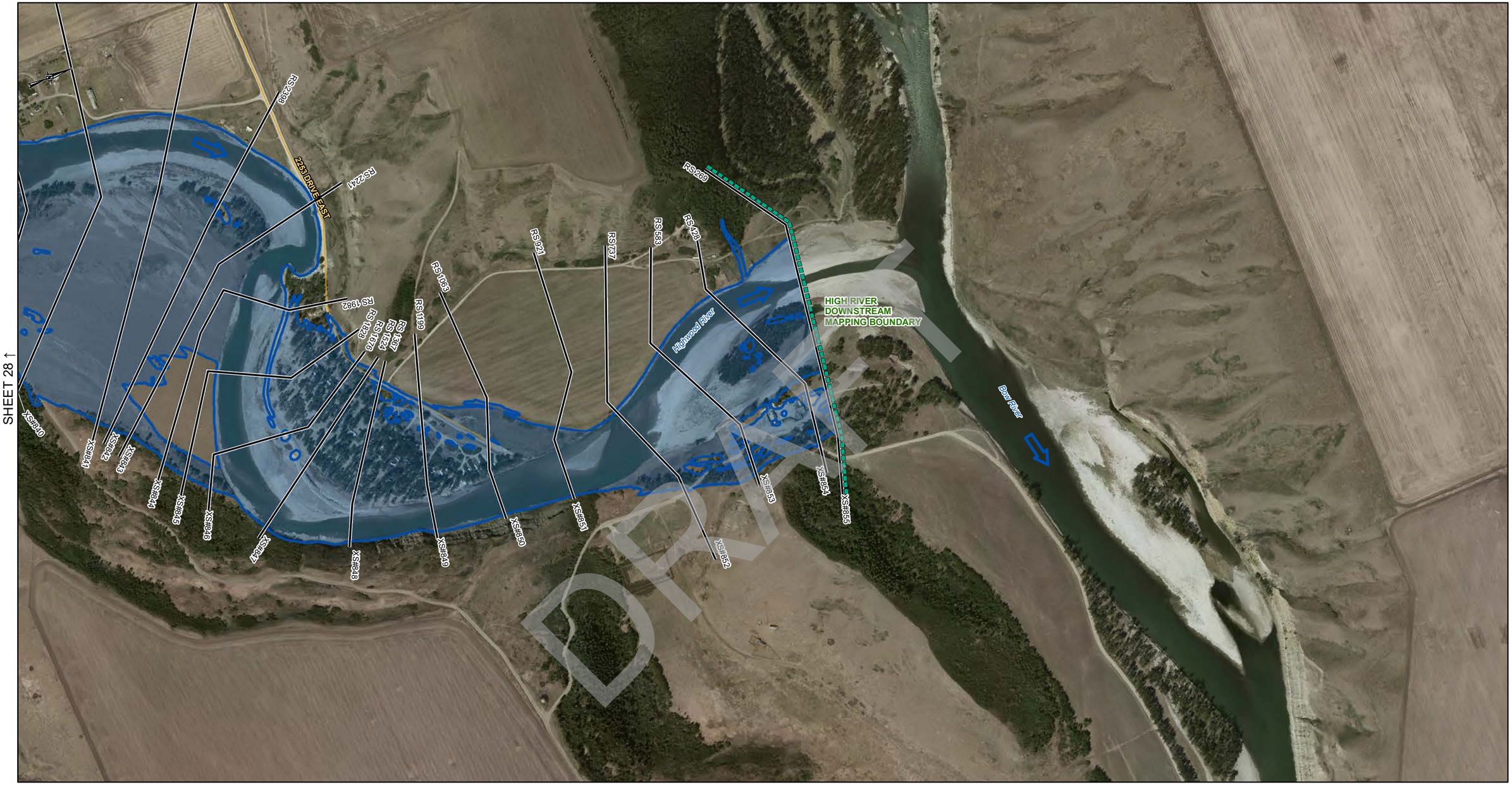
Classification: Public

SHEET 28 ↑



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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

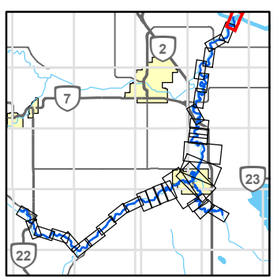
HYDRAULIC STRUCTURES

- 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



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REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
75 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_0075y-Inundation_Rev0.mxd

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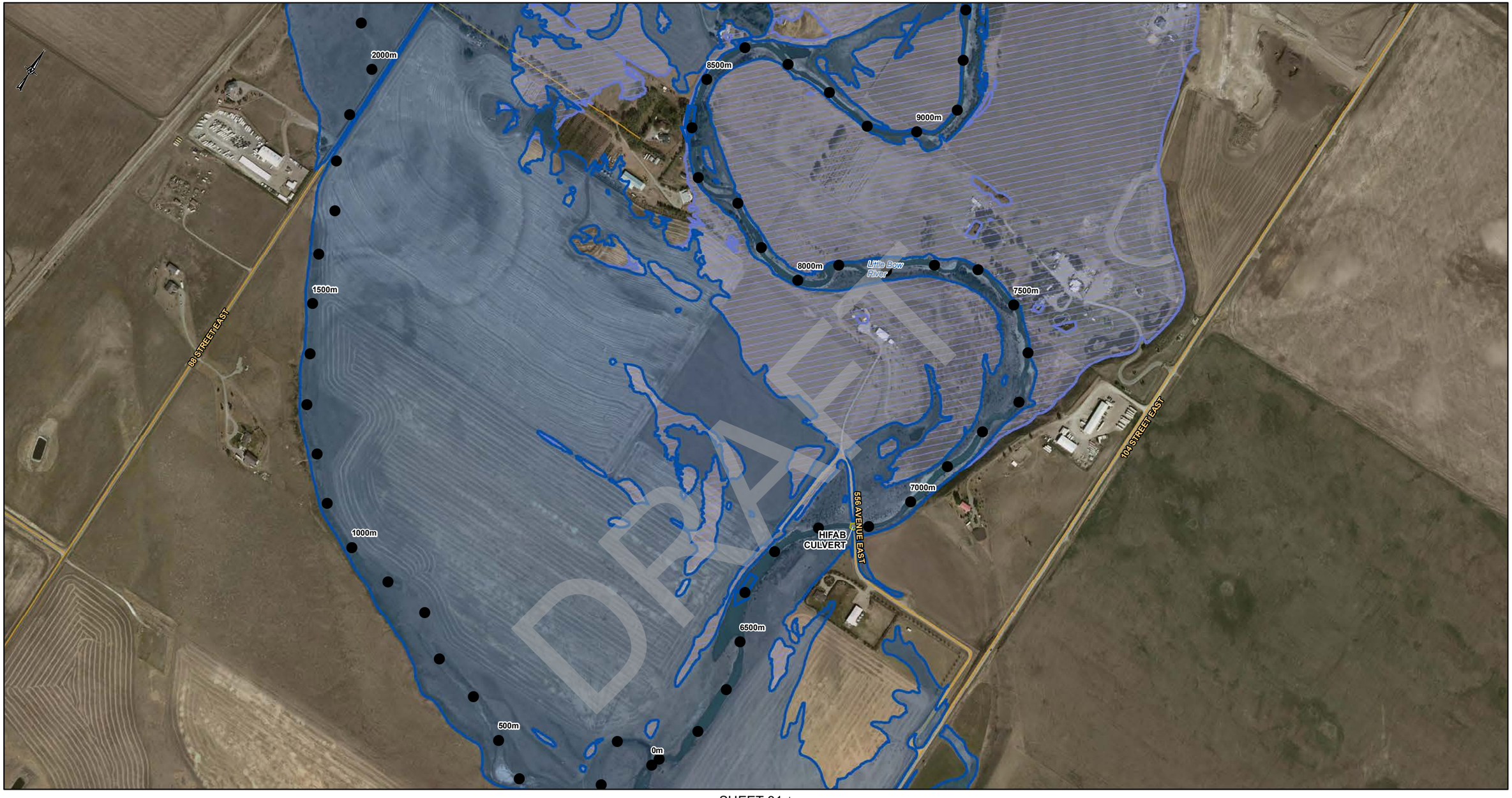
Classification: Public

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

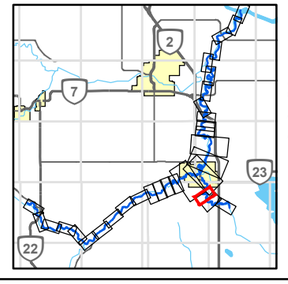
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 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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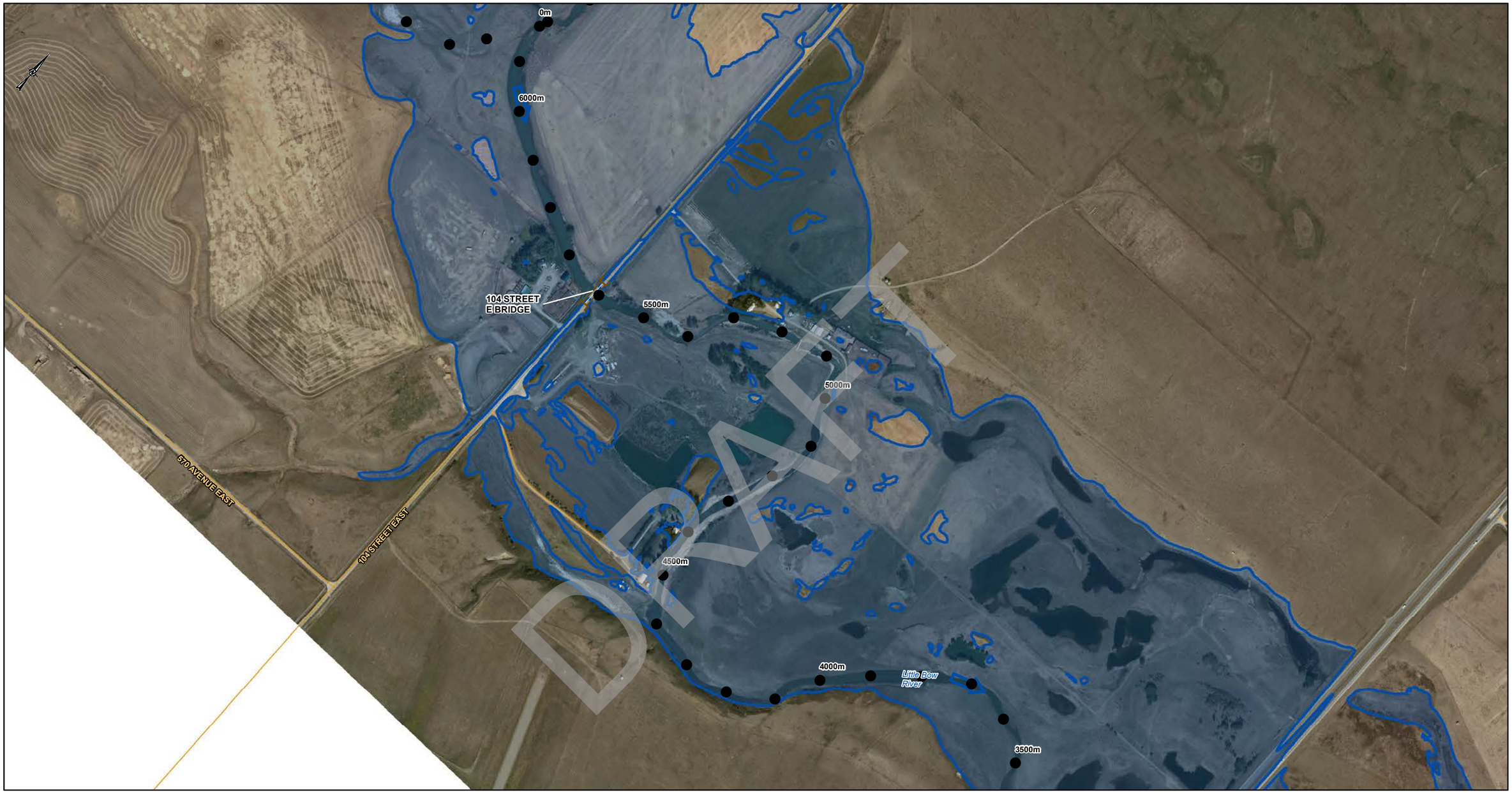
Classification: Public

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

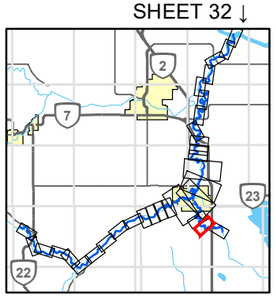
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 31 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0075y-Inundation_Rev0.mxd

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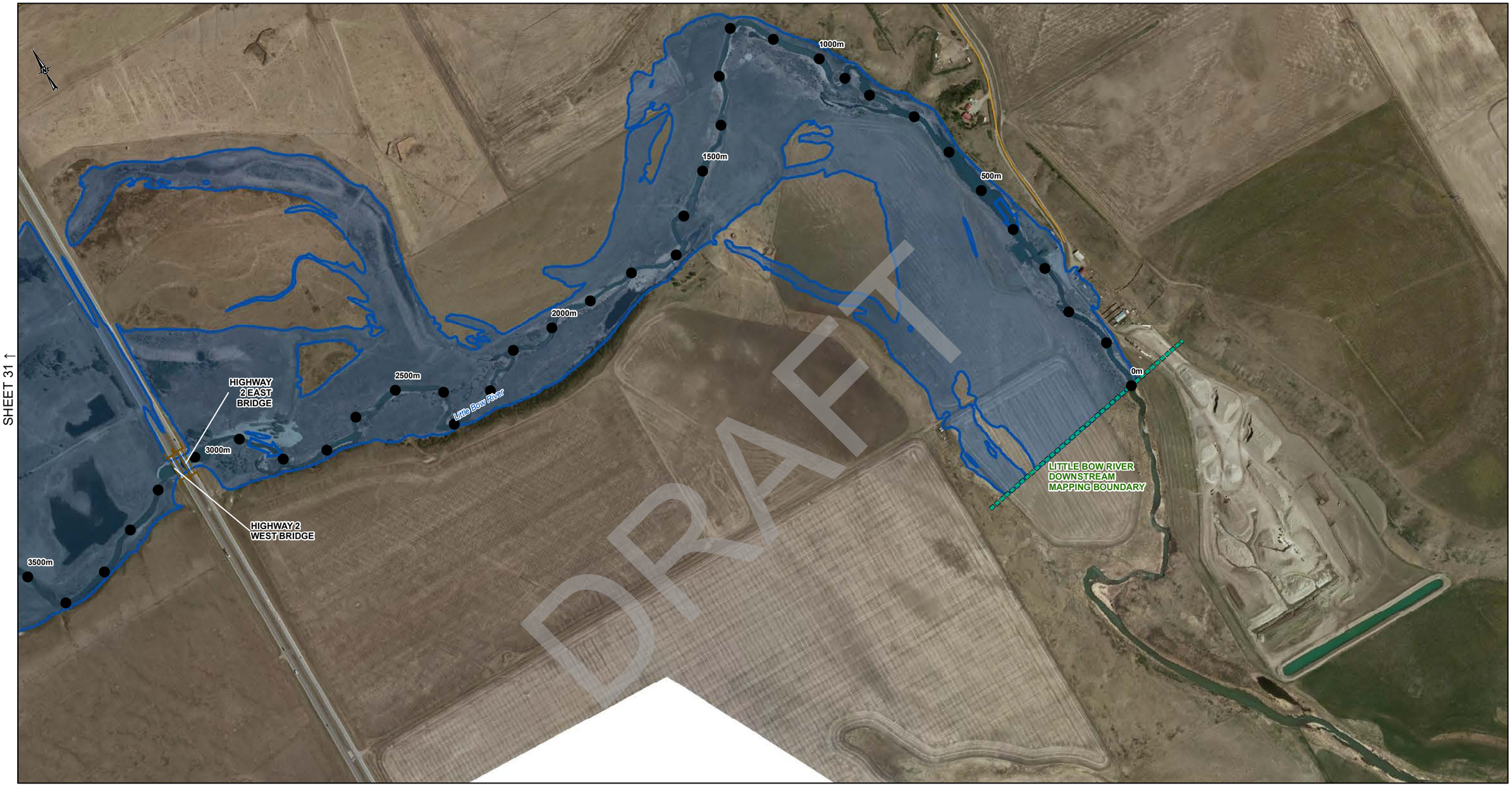
Classification: Public



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

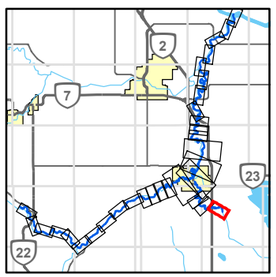
HYDRAULIC STRUCTURES

- 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



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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 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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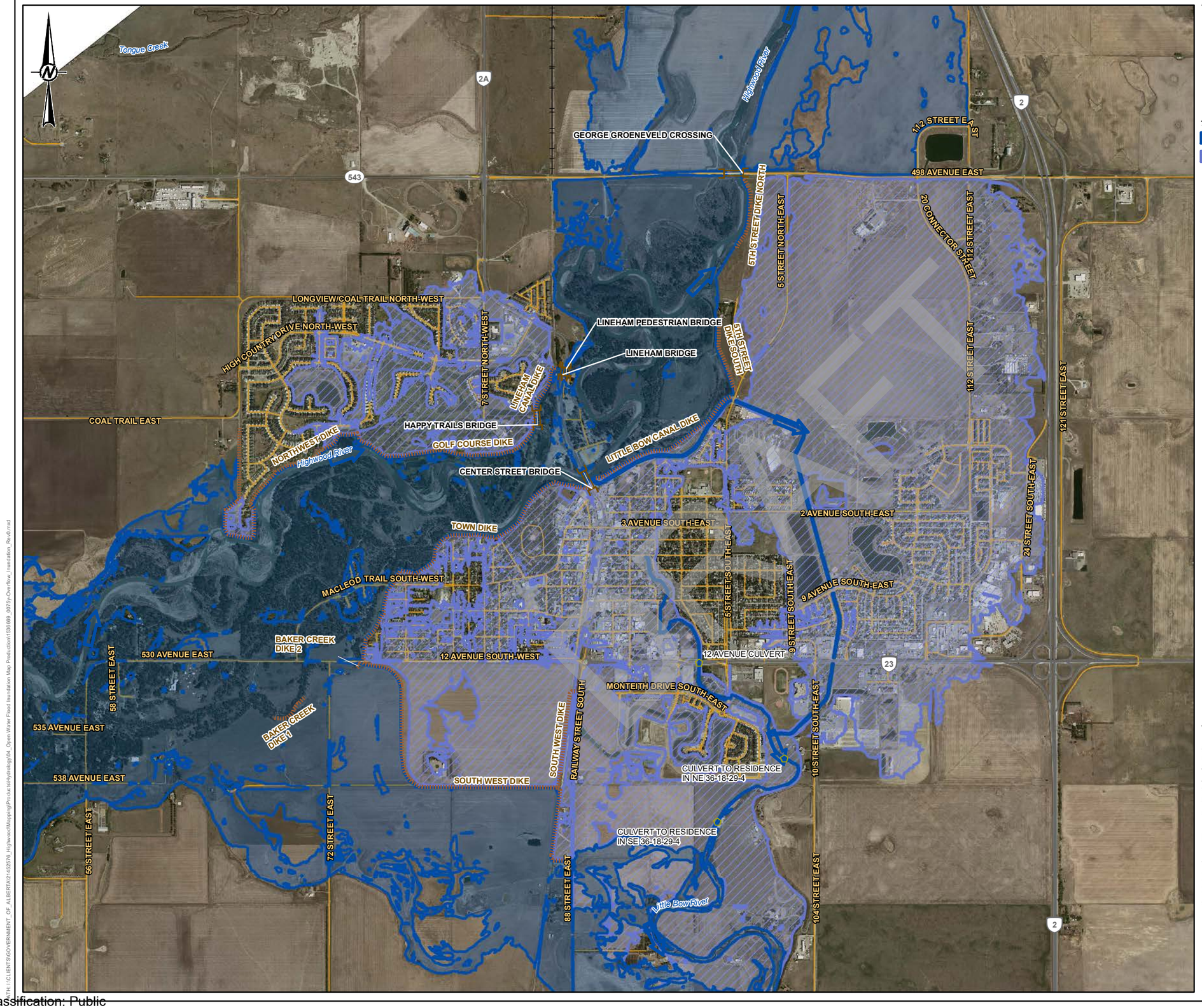
Classification: Public



LEGEND

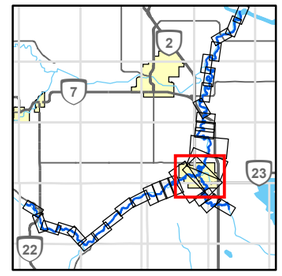
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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



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REFERENCE(S)

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Alberta Government

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

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

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

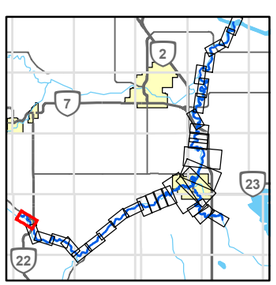
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100y-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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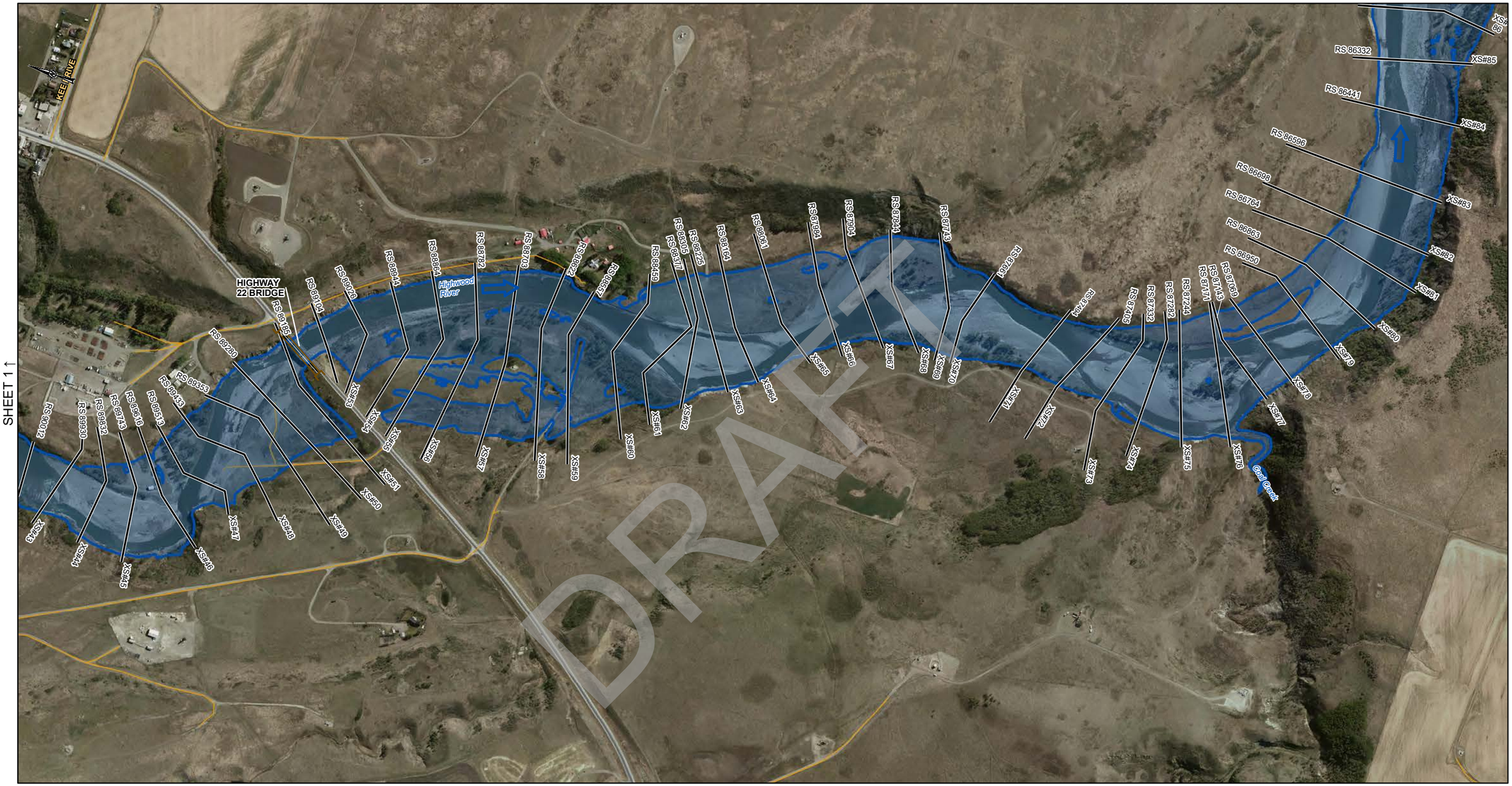
Classification: Public



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LEGEND

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

HYDRAULIC STRUCTURES

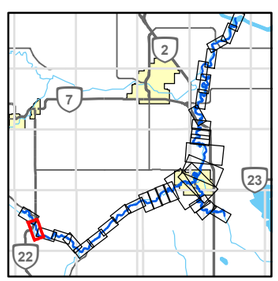
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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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 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

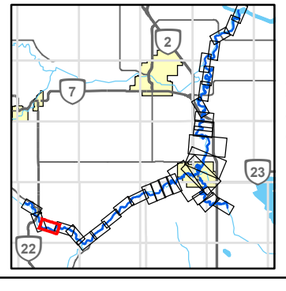
- CULVERT
- WEIR
- BRIDGE

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



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DATUM: NAD 83 CSRS PROJECTION: 3TM 114

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Alberta Government

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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
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

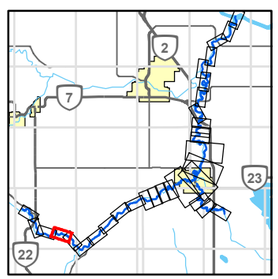
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

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

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25mm

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Classification: Public

SHEET 4 ↑

SHEET 6 ↓



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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

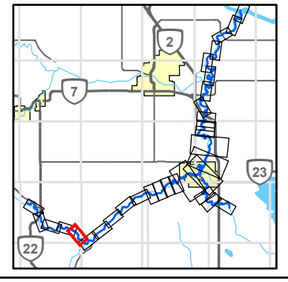
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1080 M^3/S



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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

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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

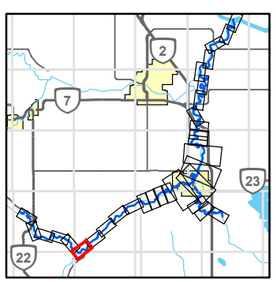
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 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

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

HYDRAULIC STRUCTURES

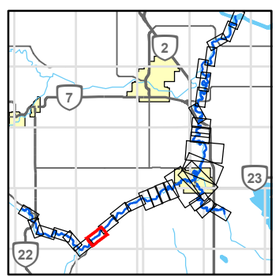
- CULVERT
- WEIR
- BRIDGE

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



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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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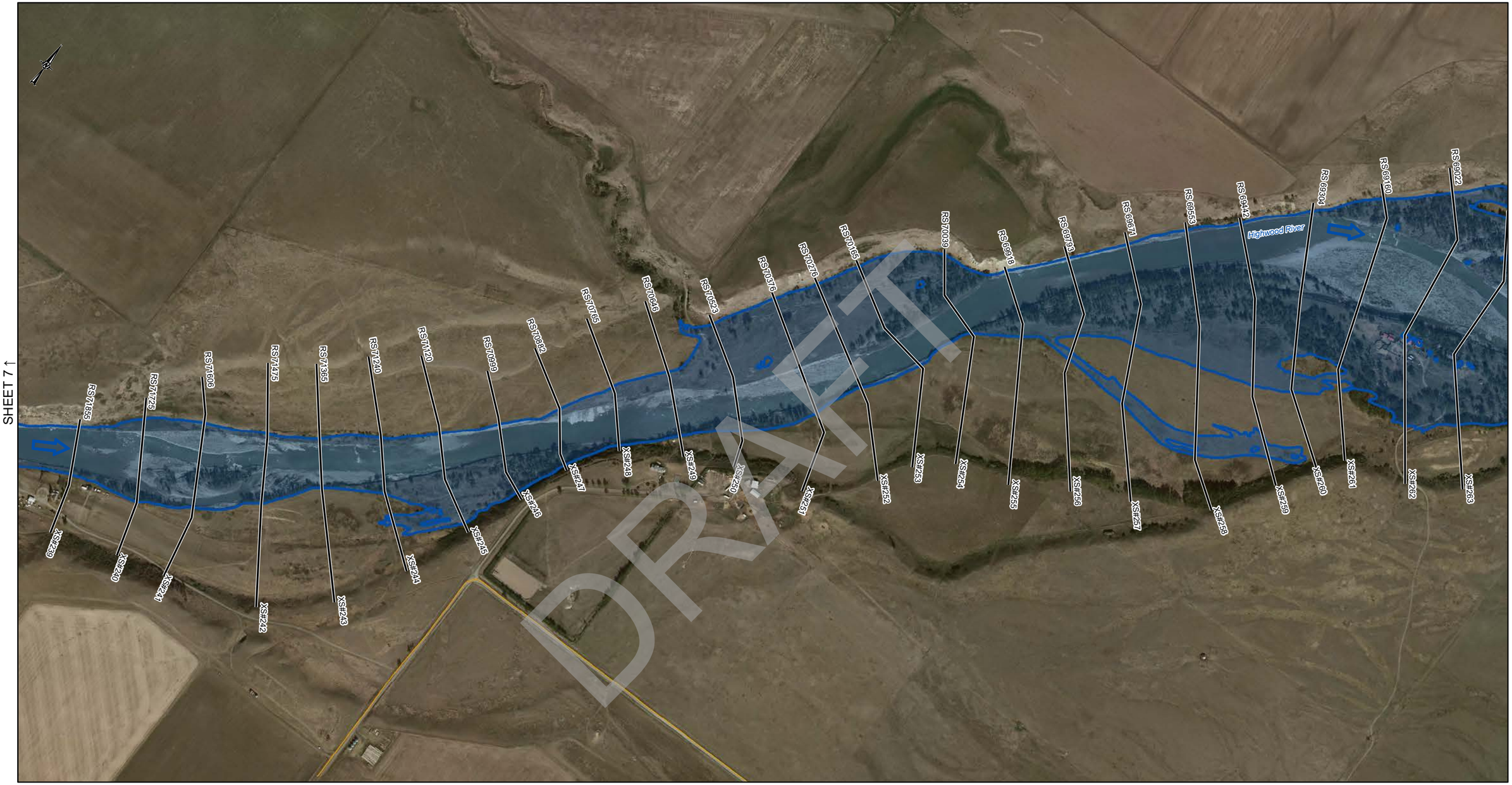

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LEGEND

- 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

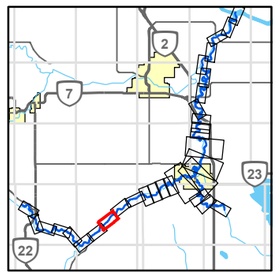
- CULVERT
- WEIR
- BRIDGE

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



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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 8 of 33

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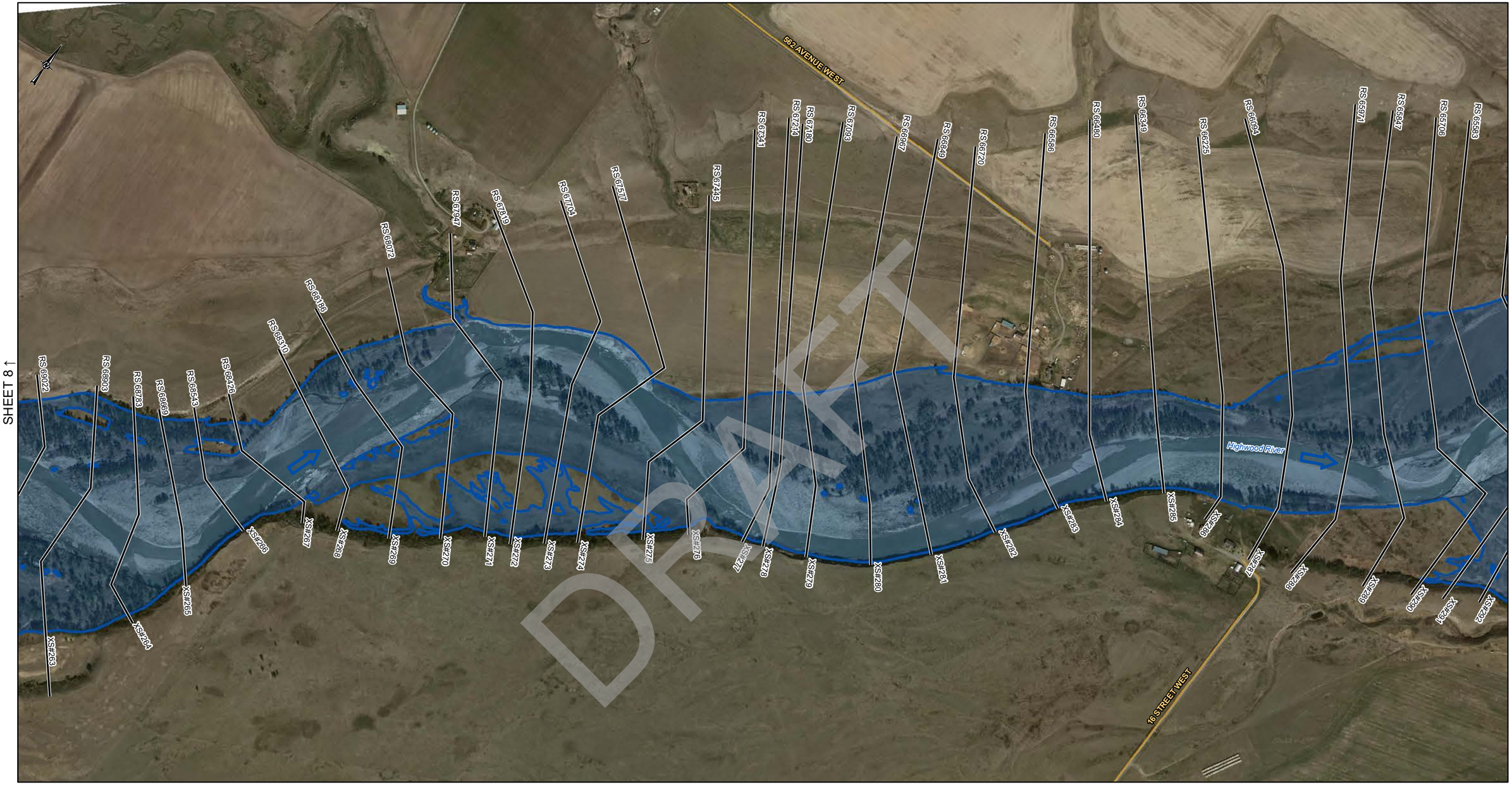
SHEET 8 ↑

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

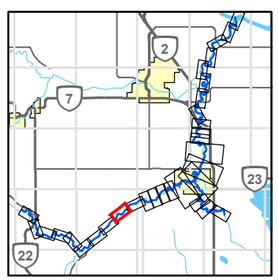
- CULVERT
- WEIR
- BRIDGE

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



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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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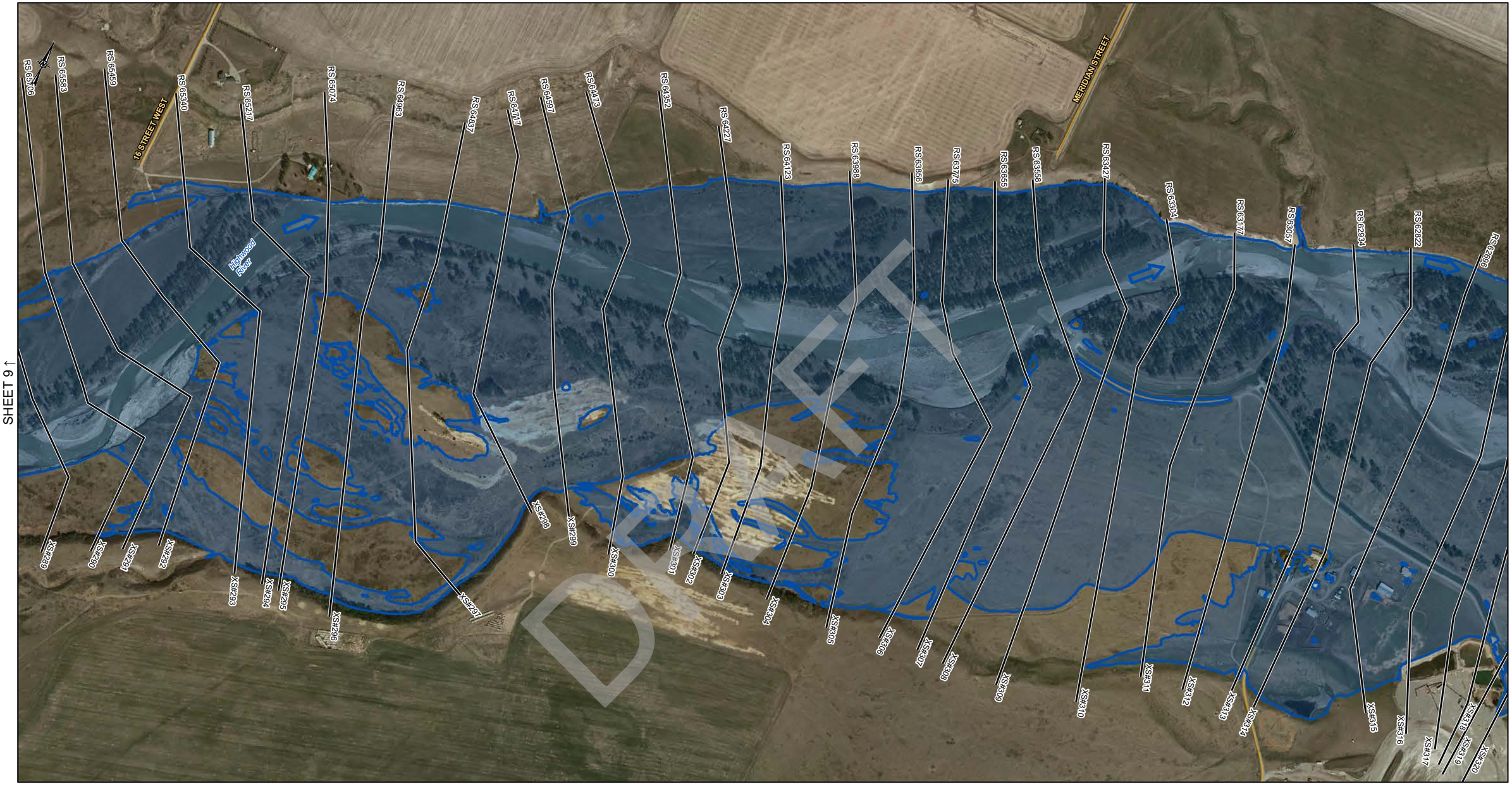
SHEET 9 ↑

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

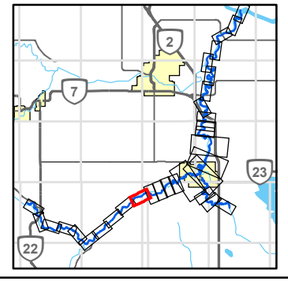
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 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

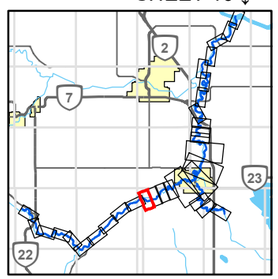
- CULVERT
- WEIR
- BRIDGE

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



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TITLE
100 YEAR INUNDATION EXTENT

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

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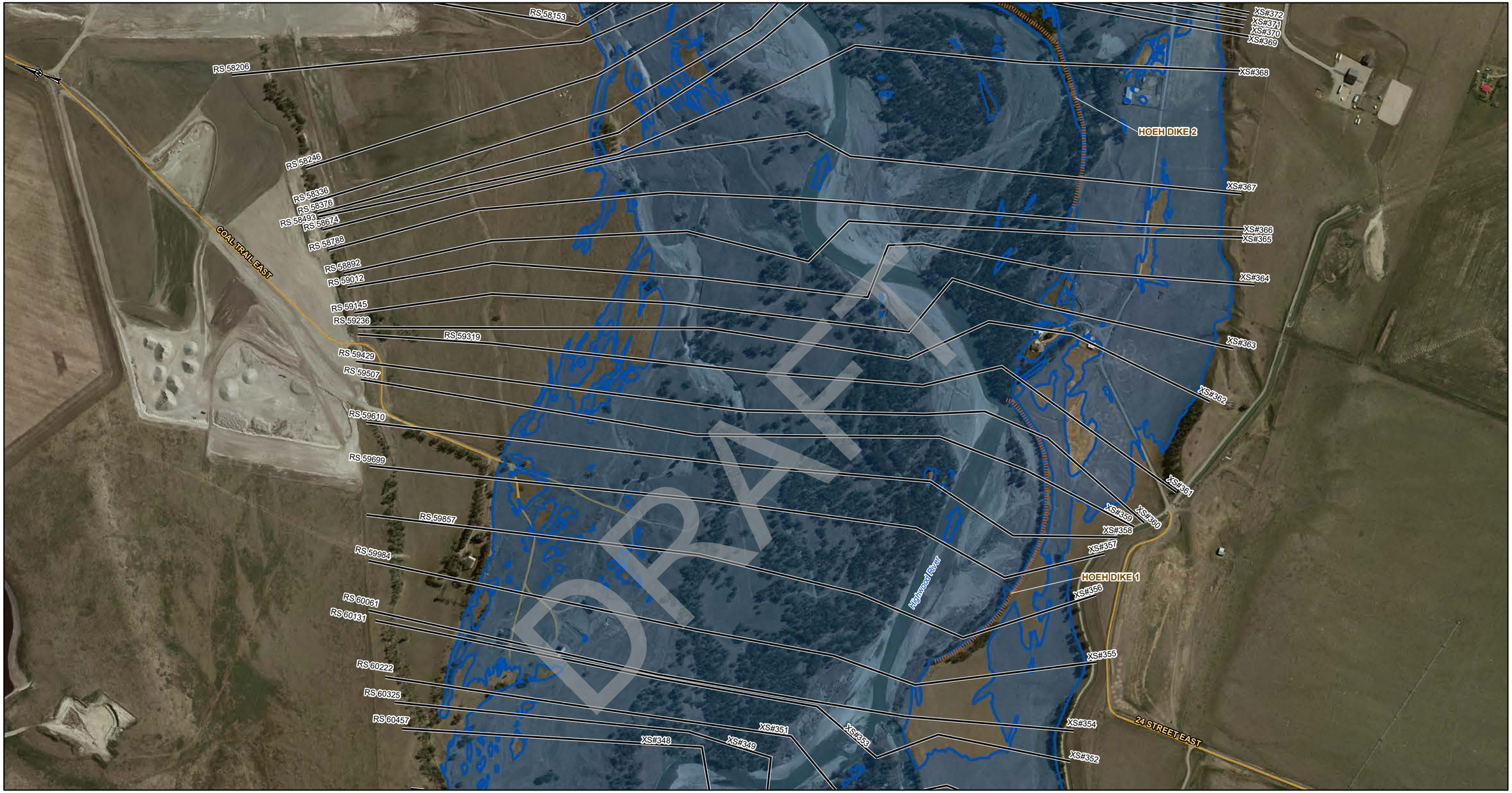
Classification: Public

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

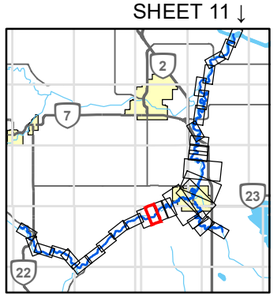
- CULVERT
- WEIR
- BRIDGE

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



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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100y-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 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

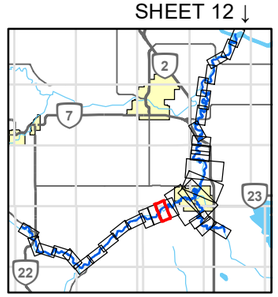
HYDRAULIC STRUCTURES

- 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



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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
100 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_0100yr-Inundation_Rev0.mxd

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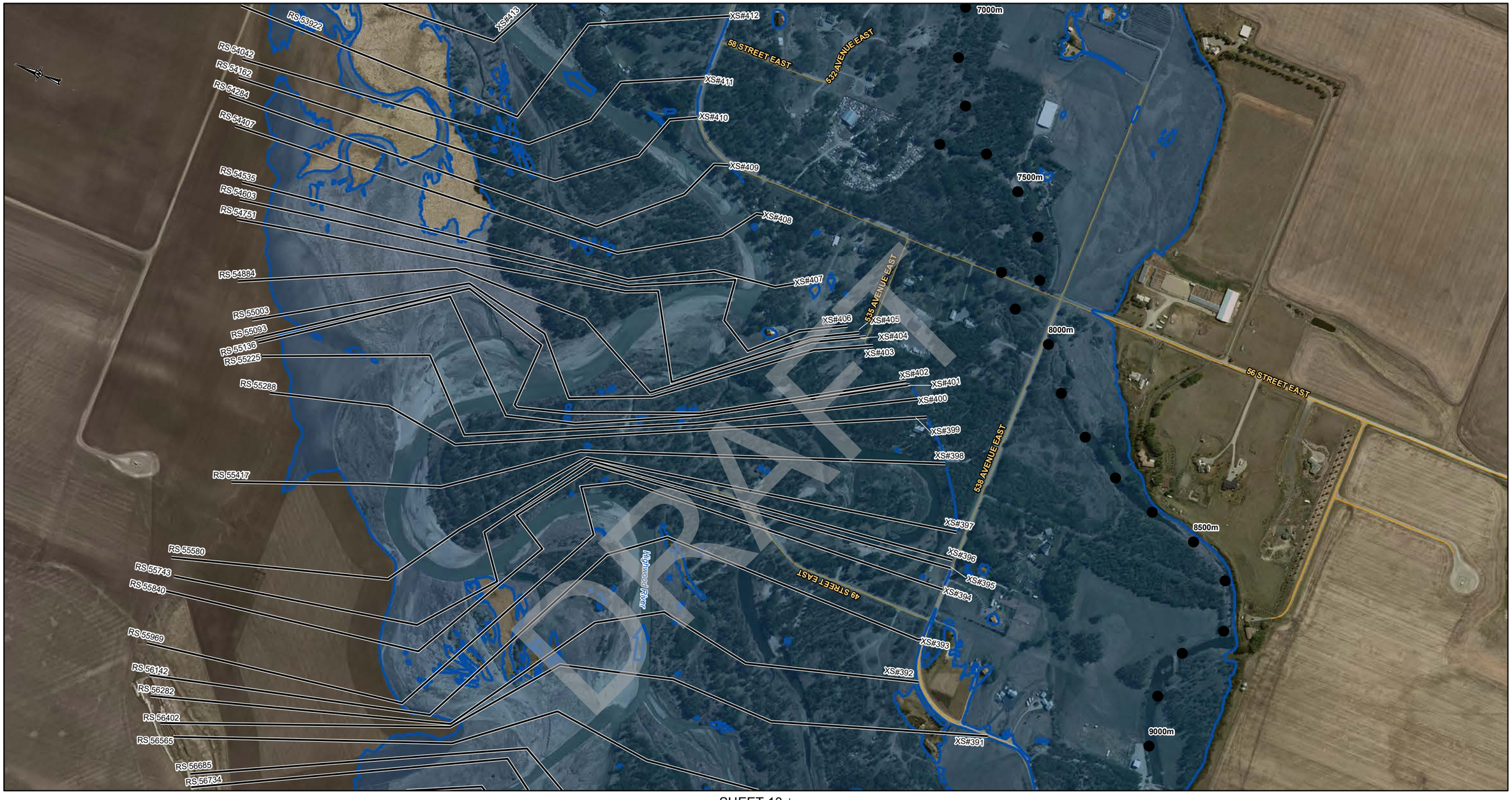
Classification: Public

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

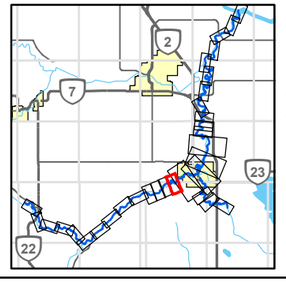
100-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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
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- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

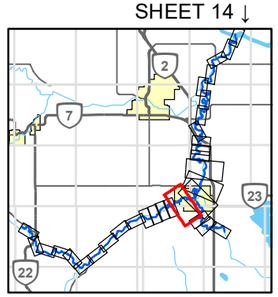
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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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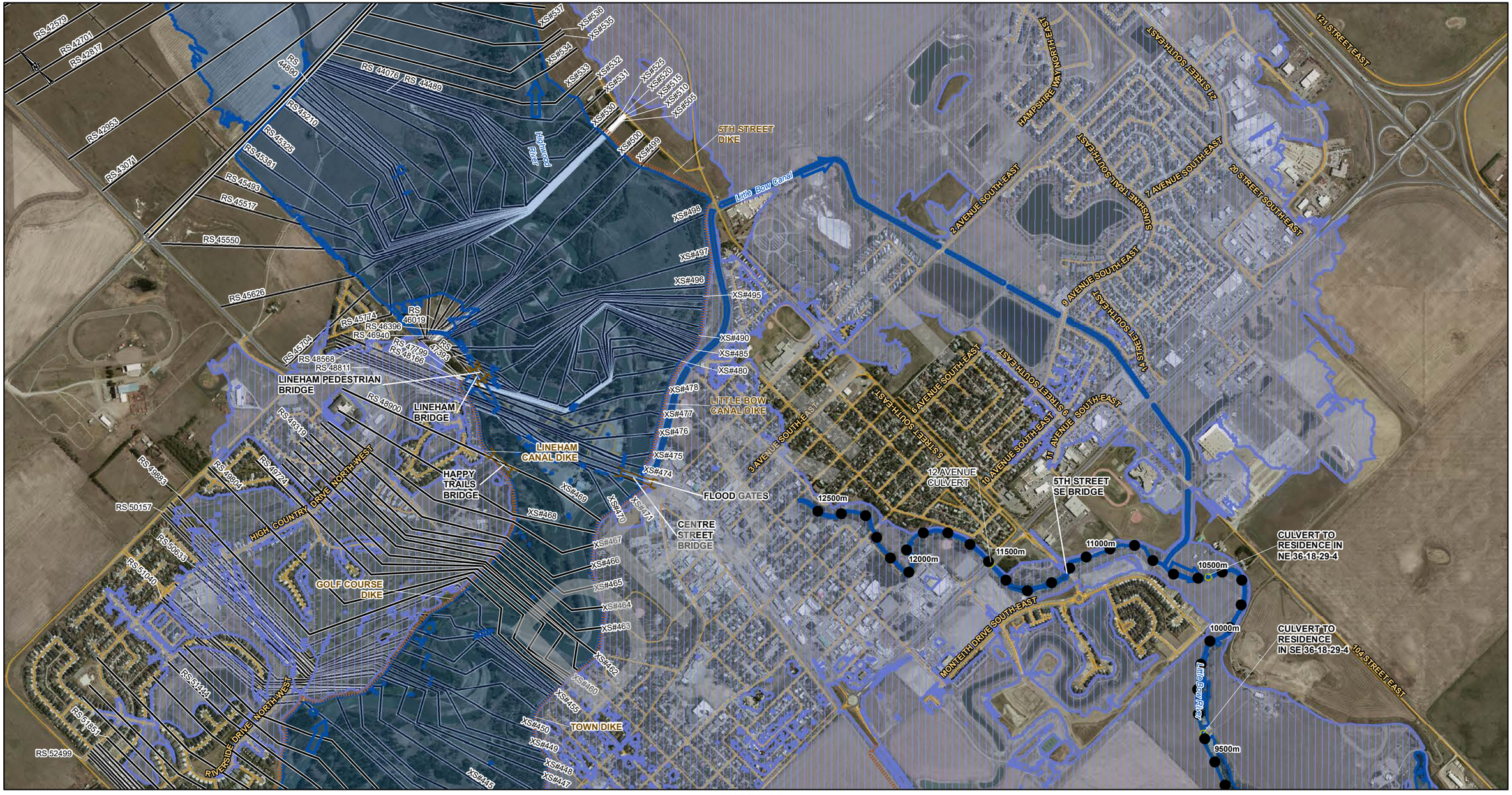
Classification: Public

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

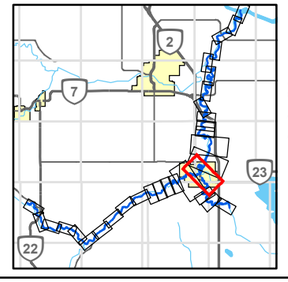
- CULVERT
- WEIR
- BRIDGE

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



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GOLDER
MEMBER OF WSP

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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 16 of 33

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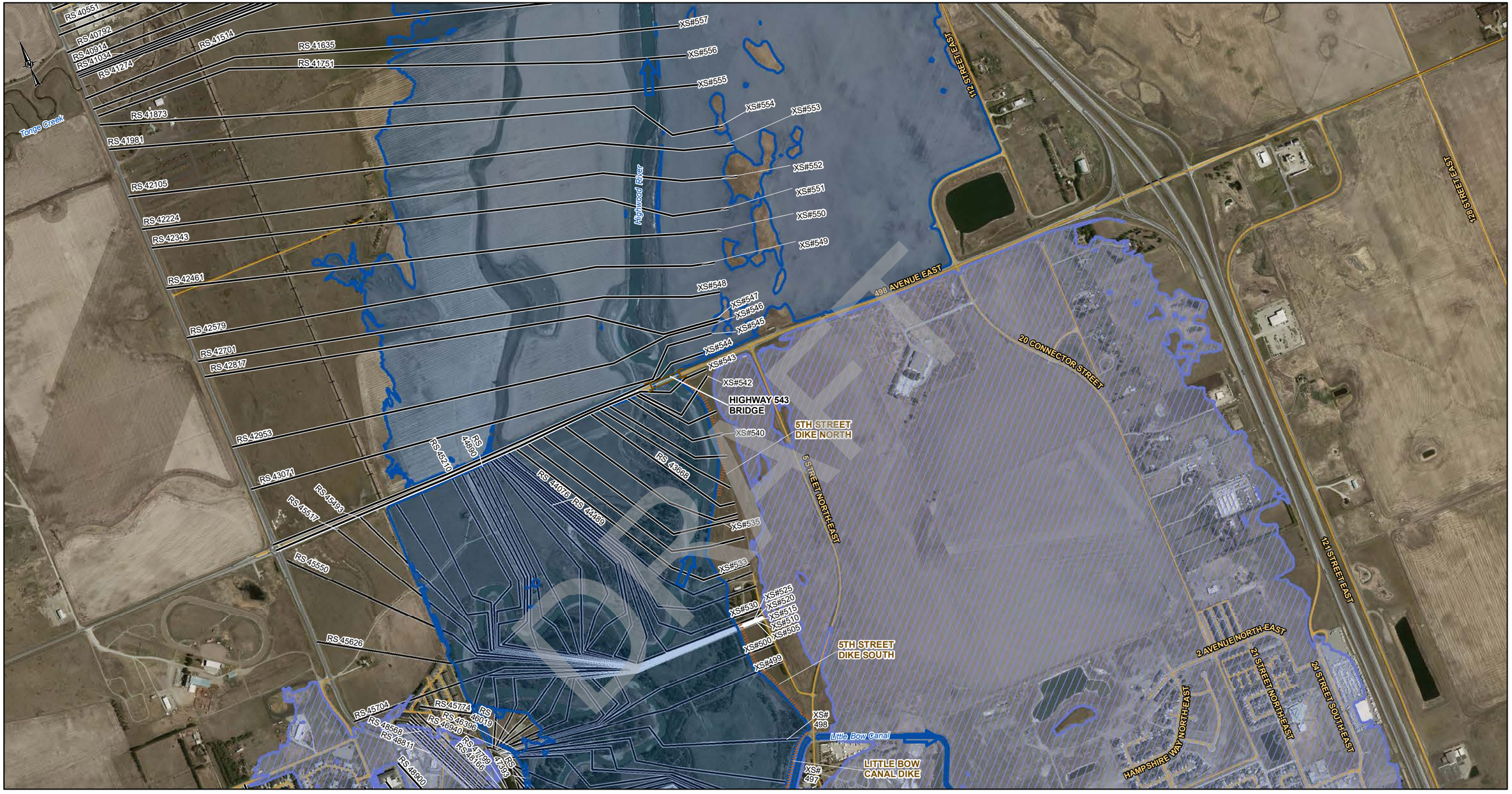
Classification: Public

SHEET 18 ↑



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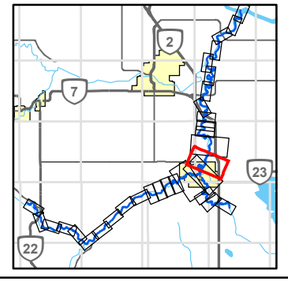

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
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- 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

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

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

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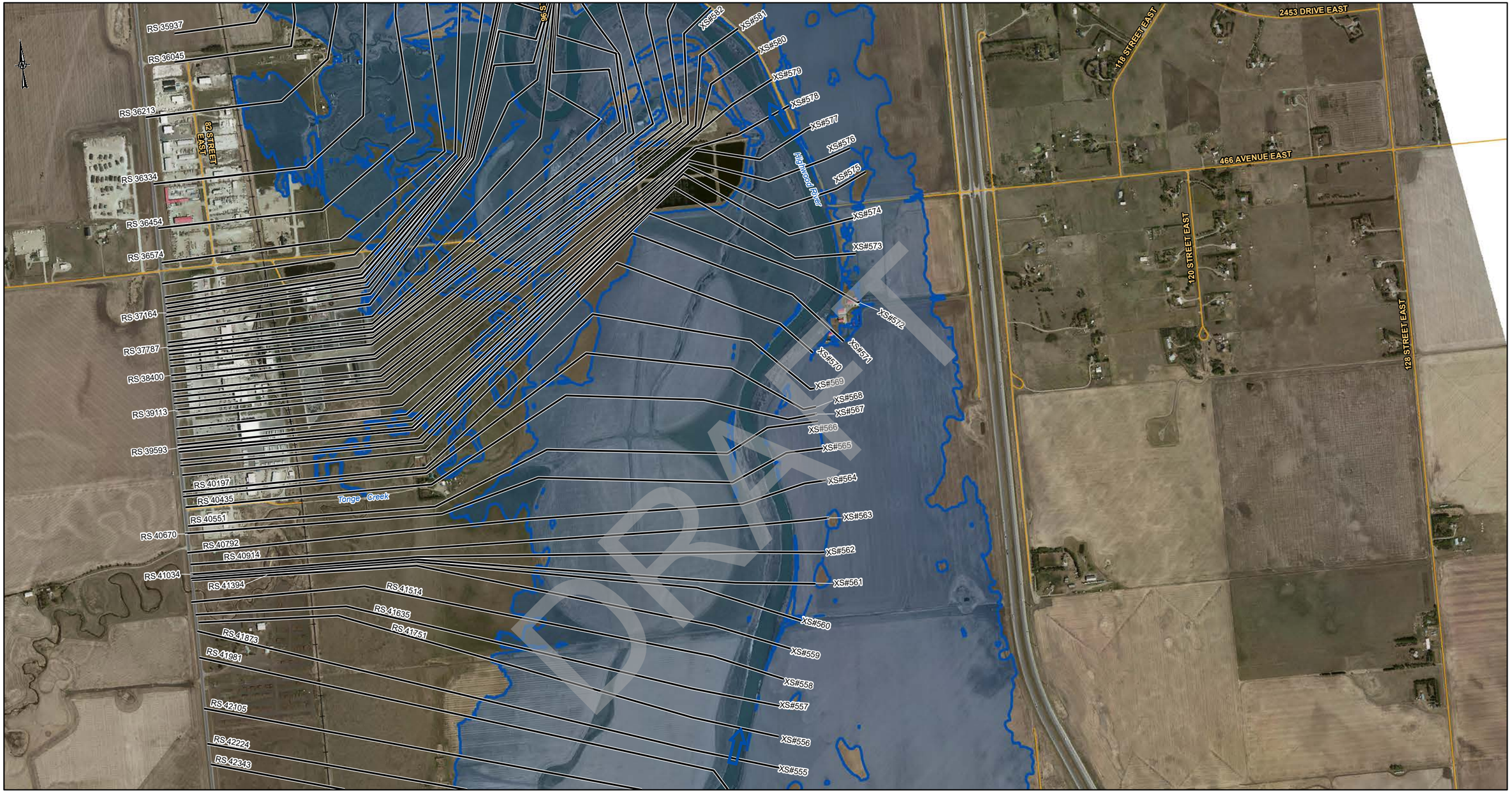
Classification: Public

SHEET 19 ↑



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

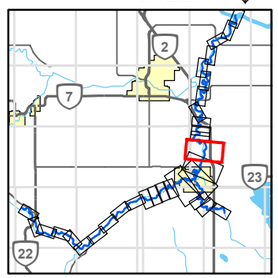
100-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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

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Classification: Public

SHEET 20 ↑



DRAFT

SHEET 18 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

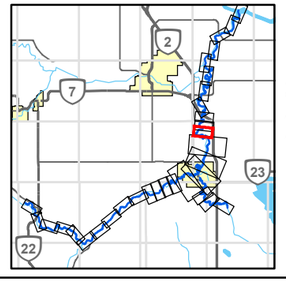
- CULVERT
- WEIR
- BRIDGE

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



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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

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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

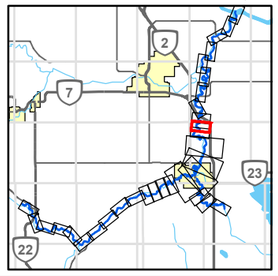
100-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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

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25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0100y-Inundation_Rev0.mxd

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
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- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
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- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
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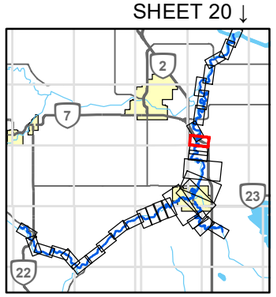
- BRIDGE

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 ↓



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
100 YEAR INUNDATION EXTENT

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

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Classification: Public

SHEET 21 ↑

SHEET 23 ↓

DRAFT



LEGEND

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

HYDRAULIC STRUCTURES

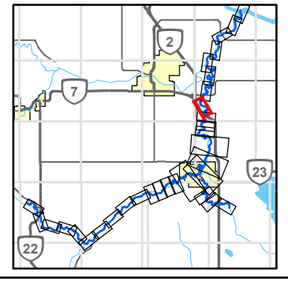
- CULVERT
- WEIR
- BRIDGE

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



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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 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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100y-Inundation_Rev0.mxd

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

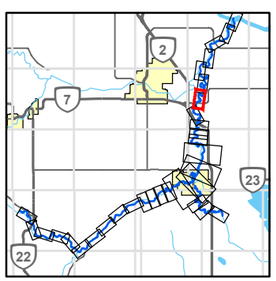
- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1159 M^3/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

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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 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 ↓



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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

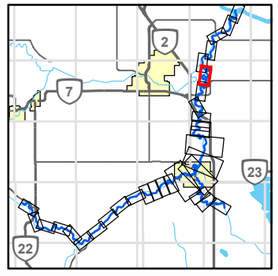
- CULVERT
- WEIR
- BRIDGE

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



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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
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

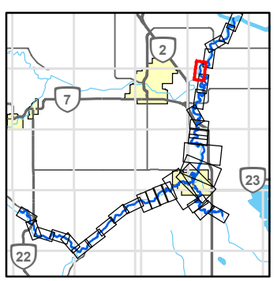
- CULVERT
- WEIR
- BRIDGE

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



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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

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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25mm
0

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

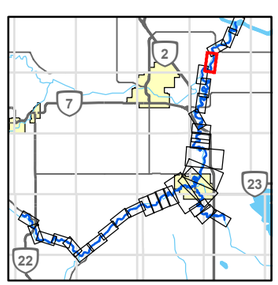
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100yr-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

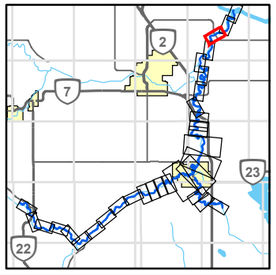
- CULVERT
- WEIR
- BRIDGE

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



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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



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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

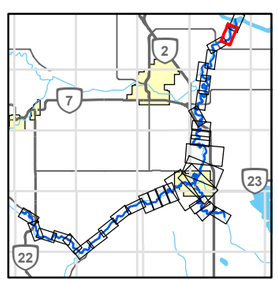
- CULVERT
- WEIR
- BRIDGE

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



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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 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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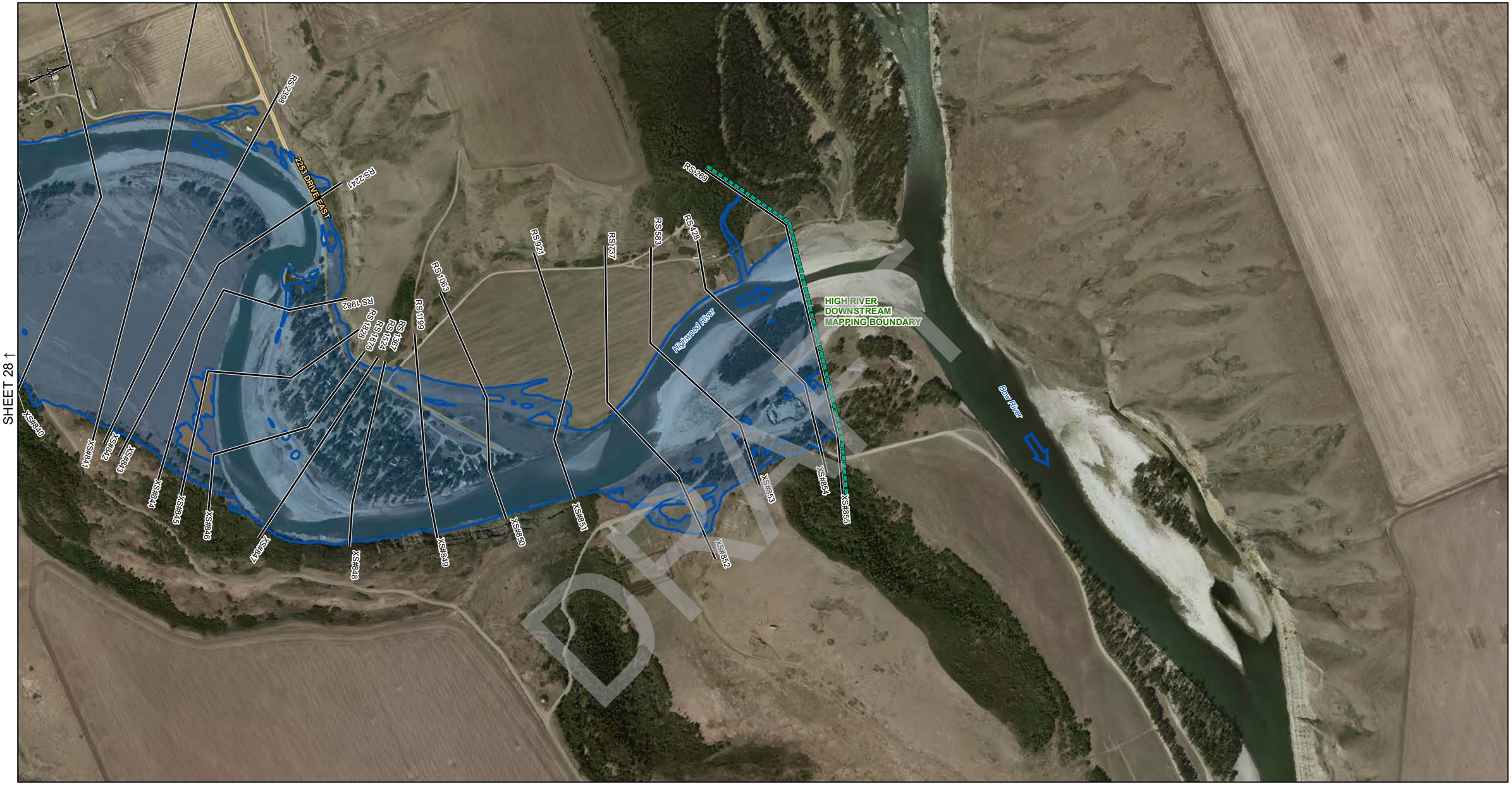
Classification: Public

SHEET 28 ↑



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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

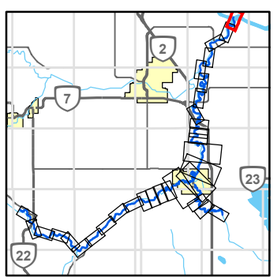
- CULVERT
- WEIR
- BRIDGE

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



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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
100 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_0100y-Inundation_Rev0.mxd

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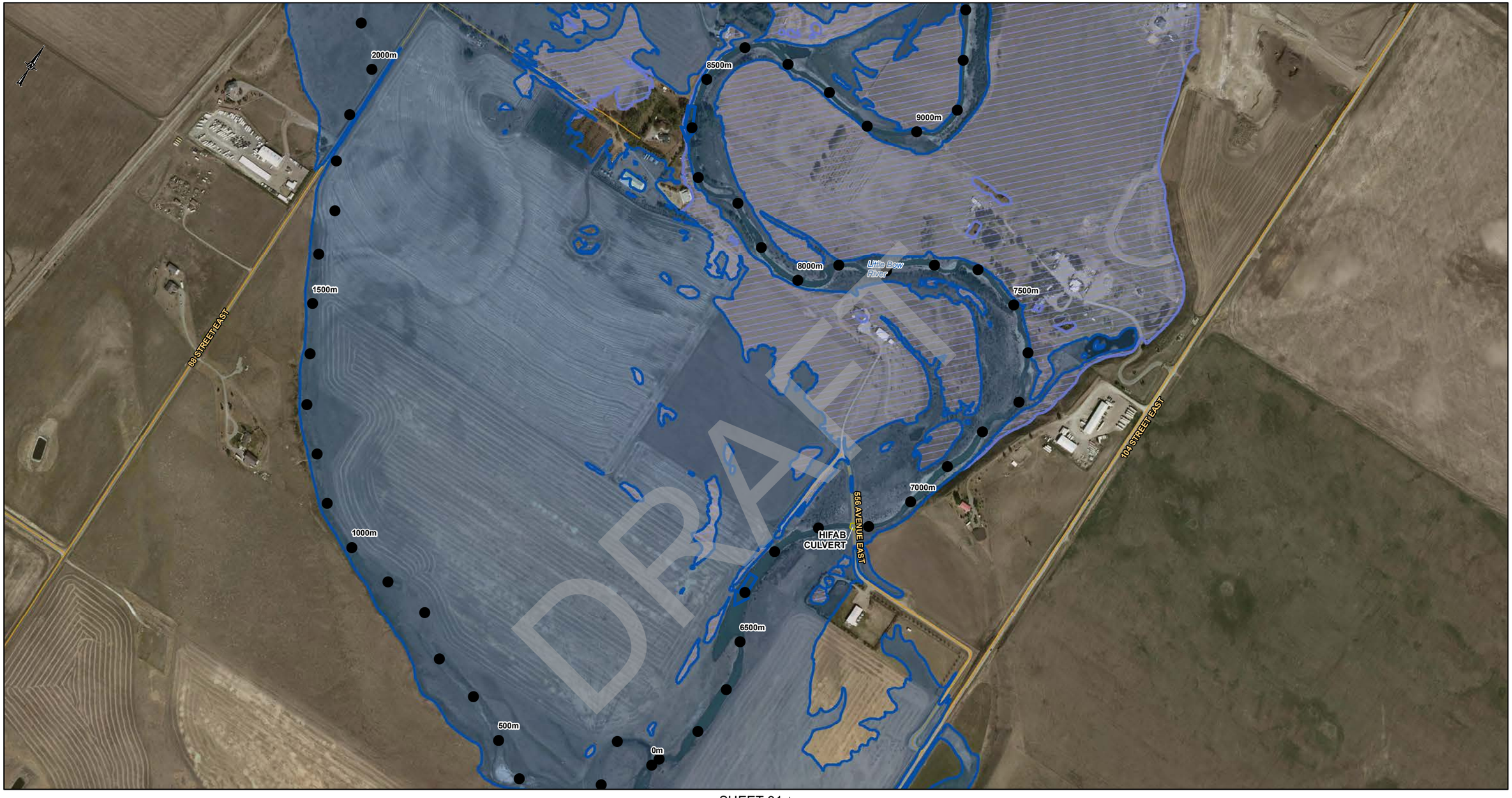
Classification: Public

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

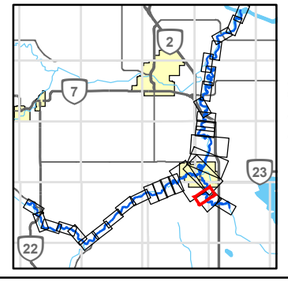
100-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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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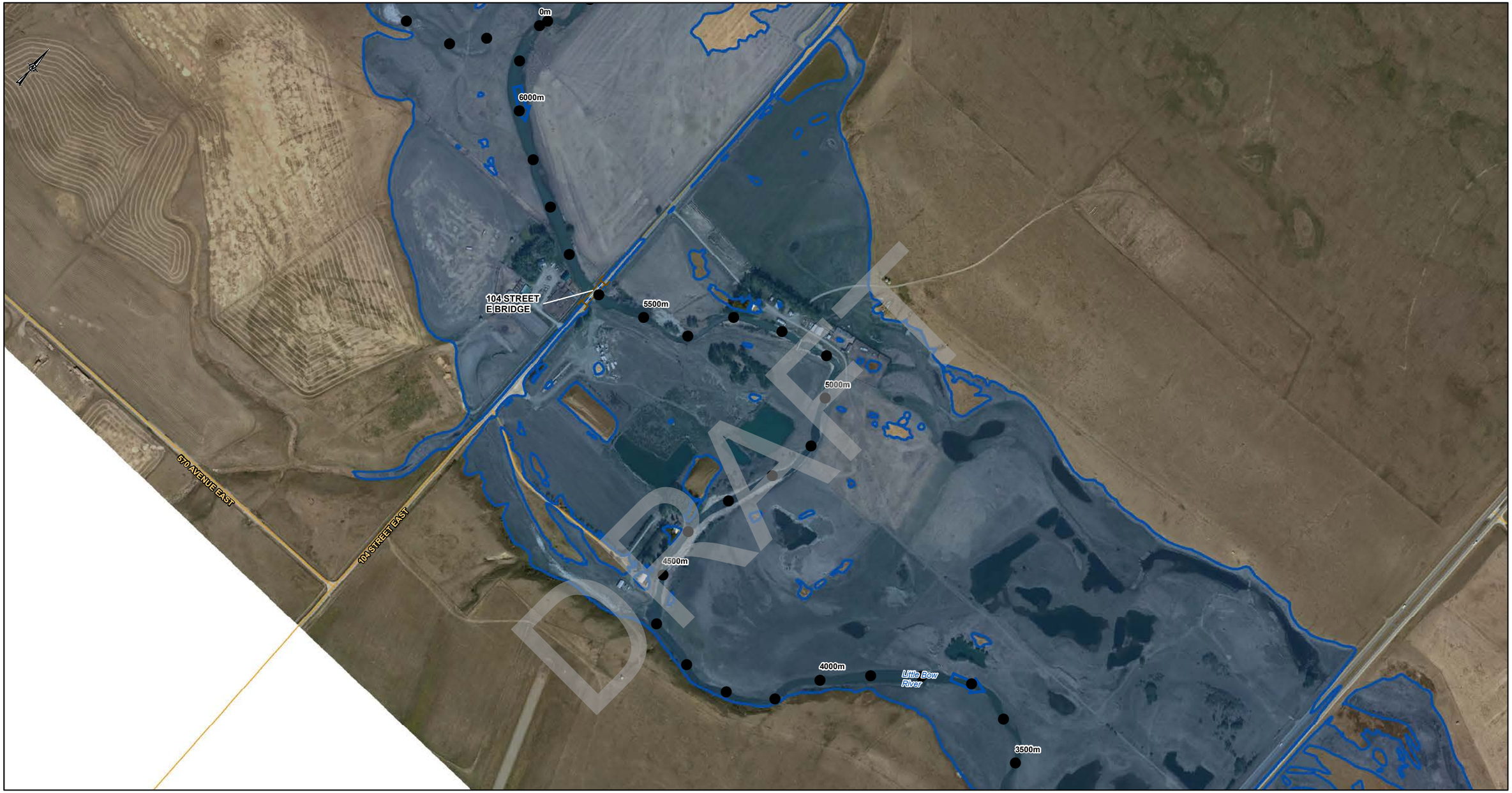
Classification: Public

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

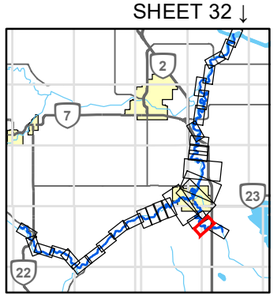
100-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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CONSULTANT
GOLDER
MEMBER OF WSP

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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 31 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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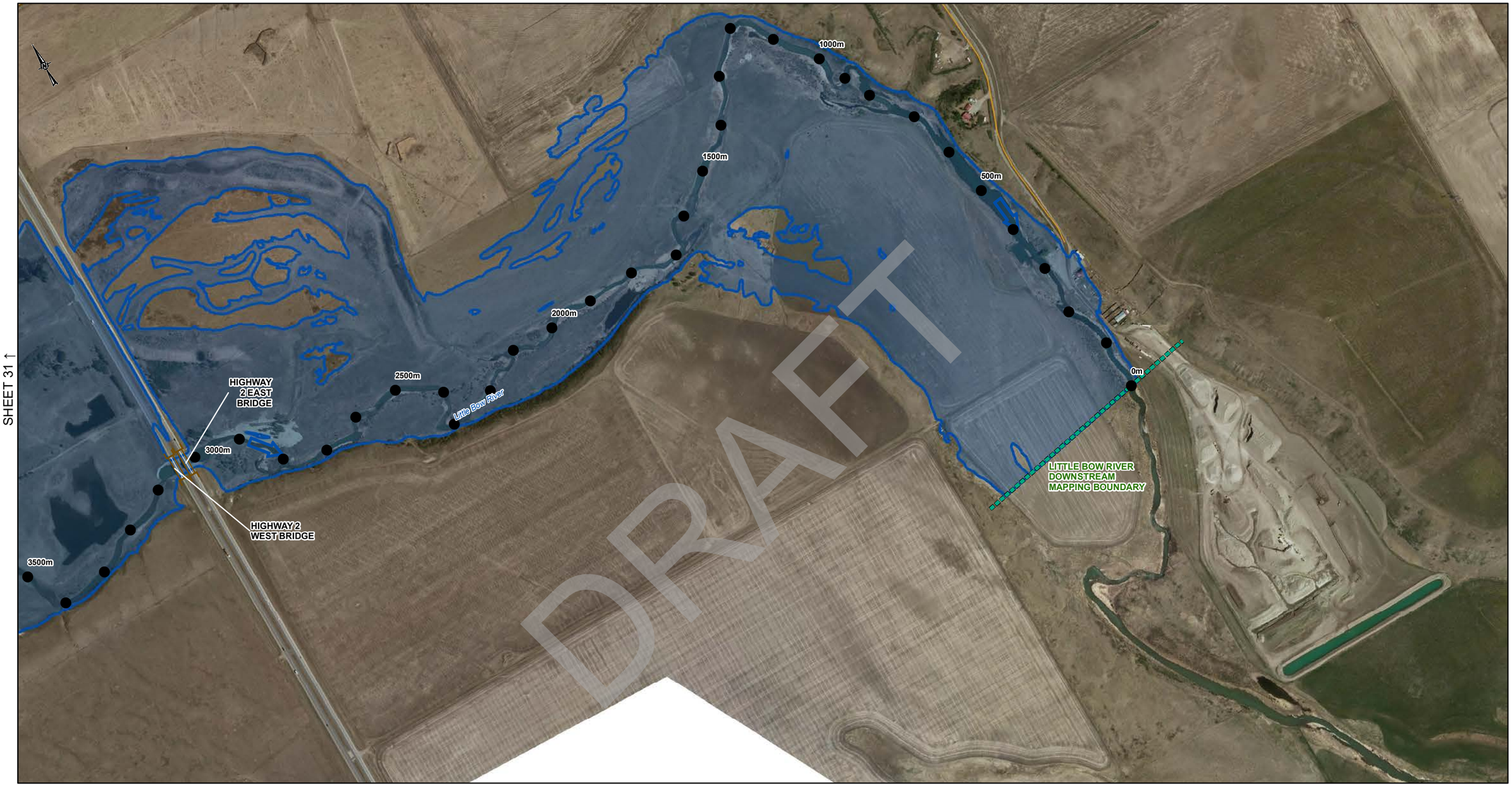
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0100y-Inundation_Rev0.mxd

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

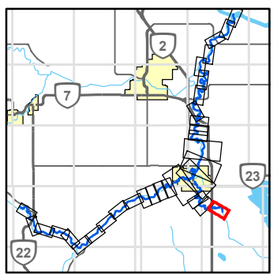
HYDRAULIC STRUCTURES

- 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



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GOLDER
MEMBER OF WSP

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 32 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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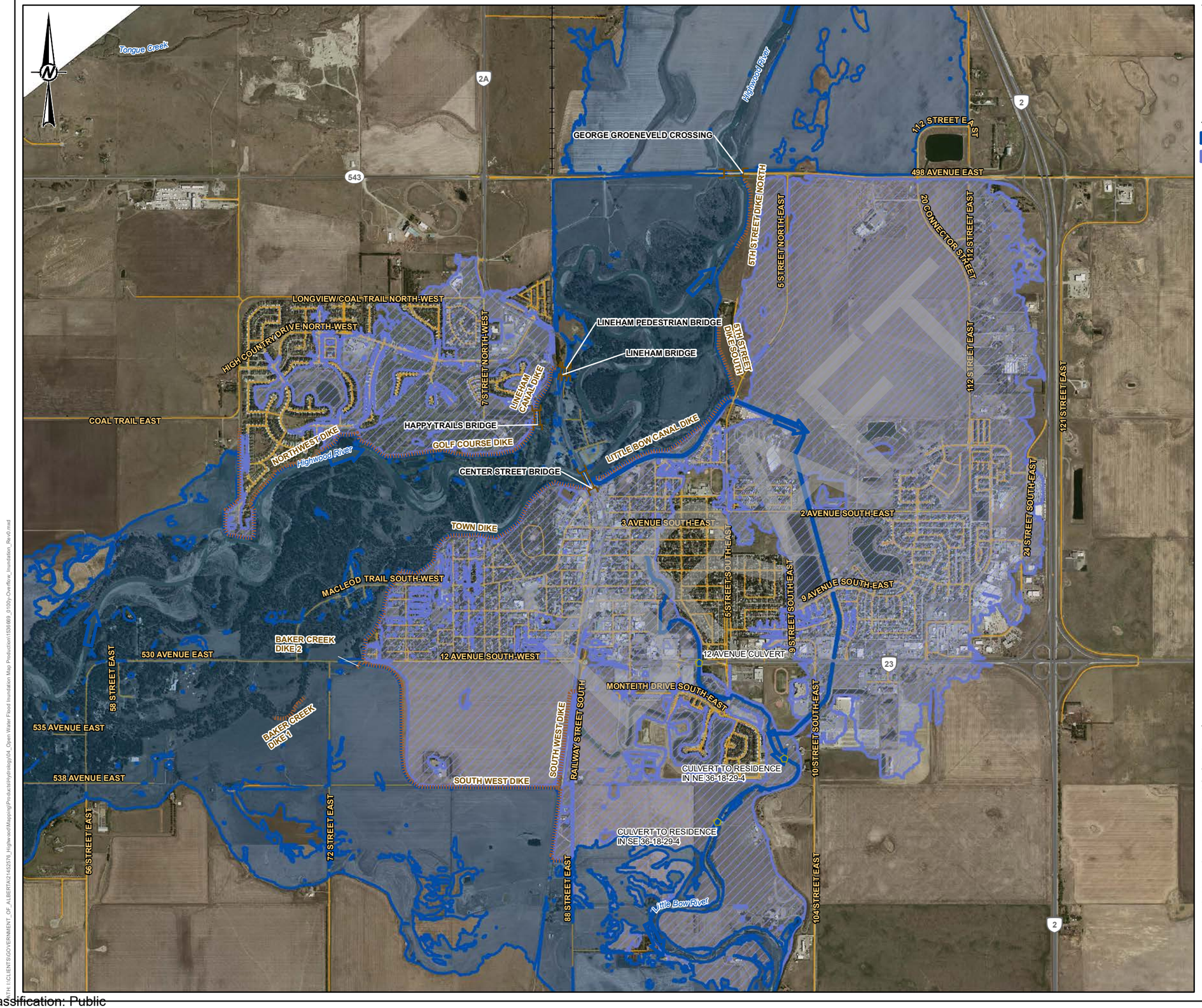
Classification: Public



LEGEND

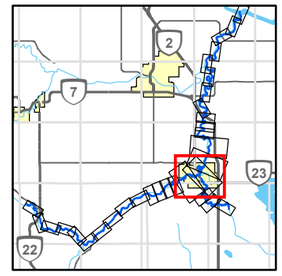
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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



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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

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25mm

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Classification: Public

200-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

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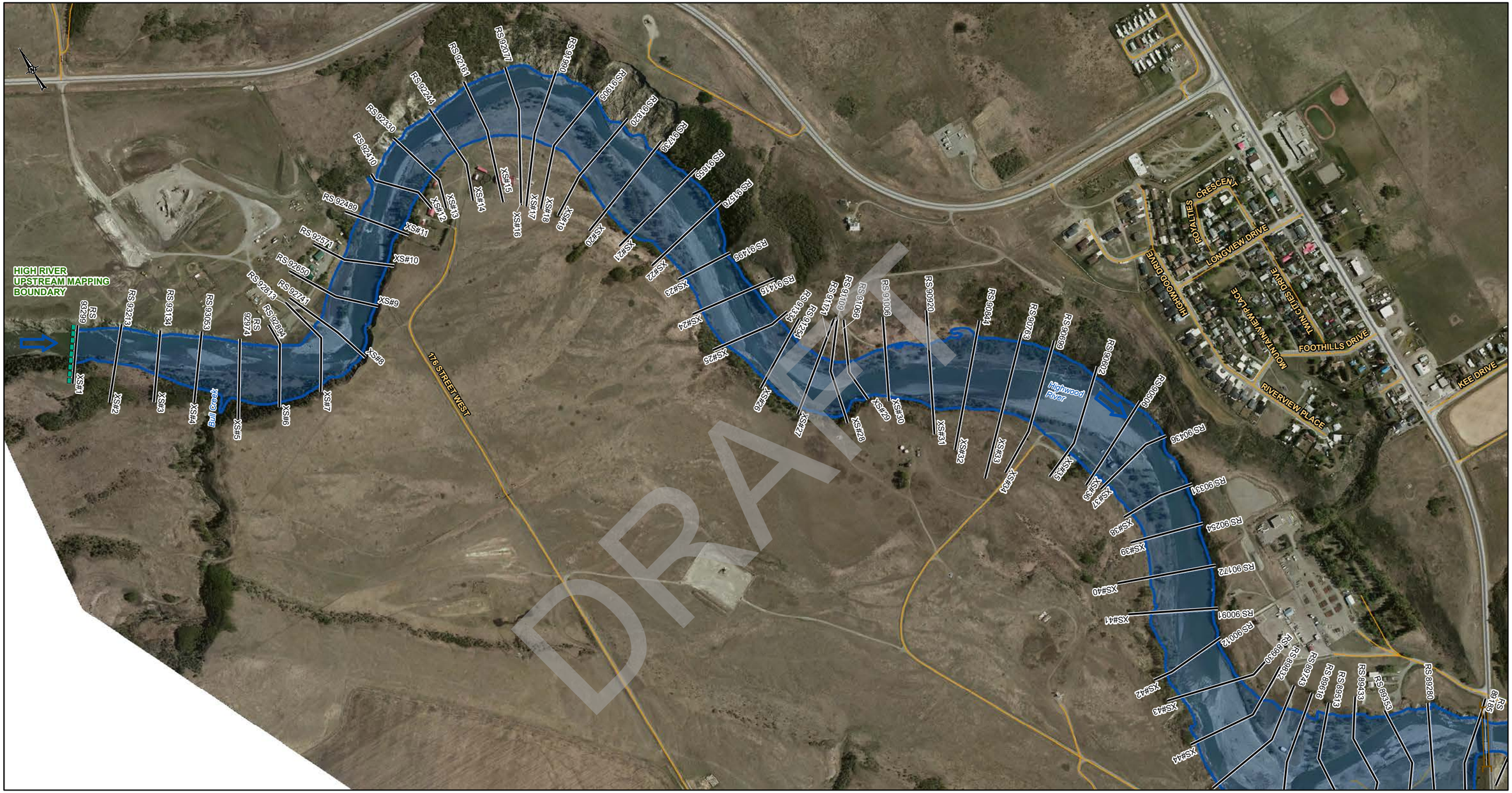


SHEET 2 ↓

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

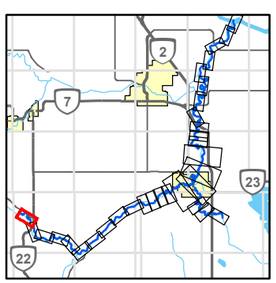
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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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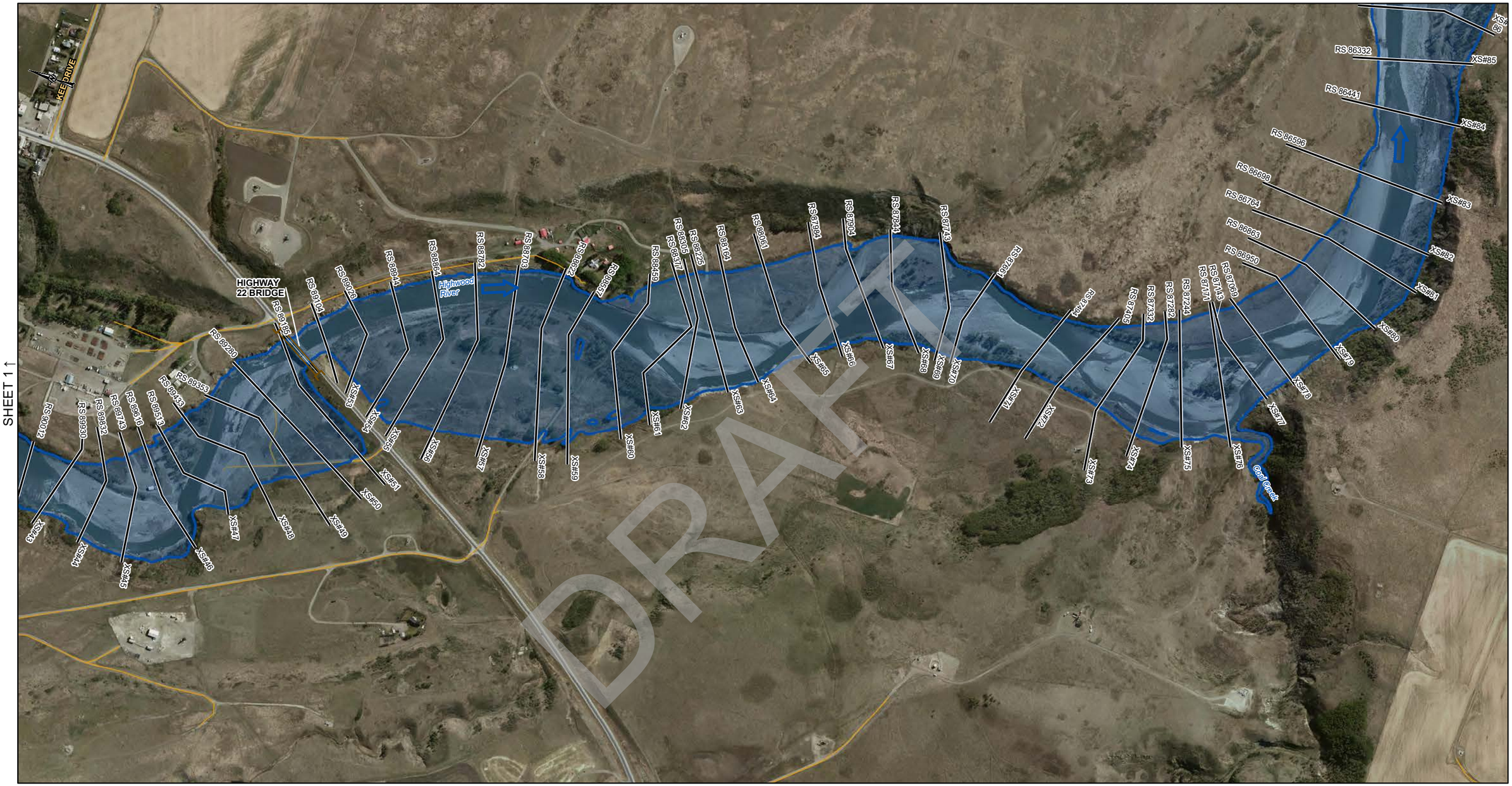

SHEET 1 ↑

SHEET 3 ↓

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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

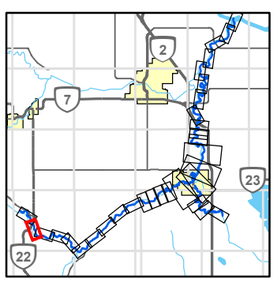
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE
HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S



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Alberta Government

CONSULTANT
GOLDER
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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

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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

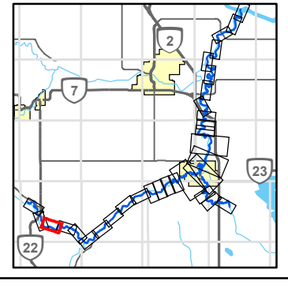
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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GOLDER
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 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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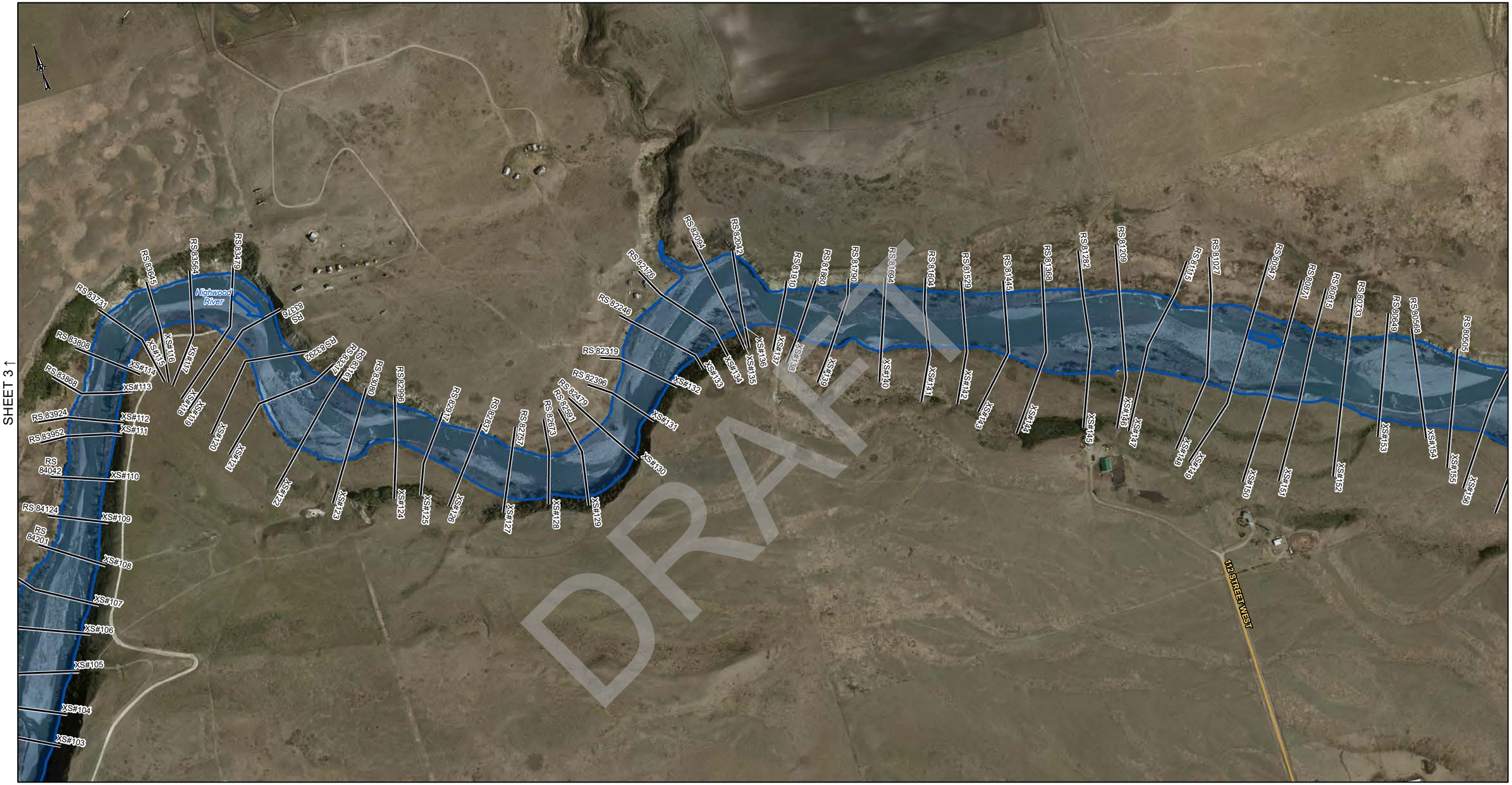
Classification: Public

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

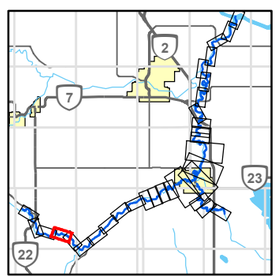
- CULVERT
- WEIR
- BRIDGE

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



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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
200 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

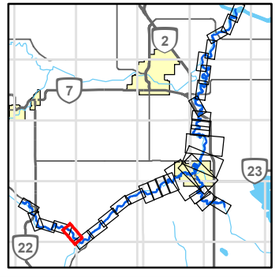
- CULVERT
- WEIR
- BRIDGE

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



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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 5 of 33

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Classification: Public

SHEET 5 ↑

SHEET 7 ↓



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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

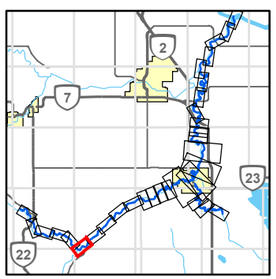
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER UPSTREAM OF STIMSON CREEK = 1700 M^3/S
HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



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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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Classification: Public

SHEET 6 ↑

SHEET 8 ↓



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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

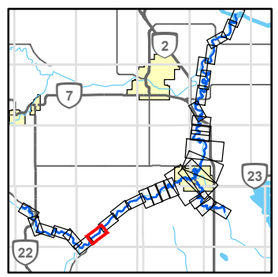
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



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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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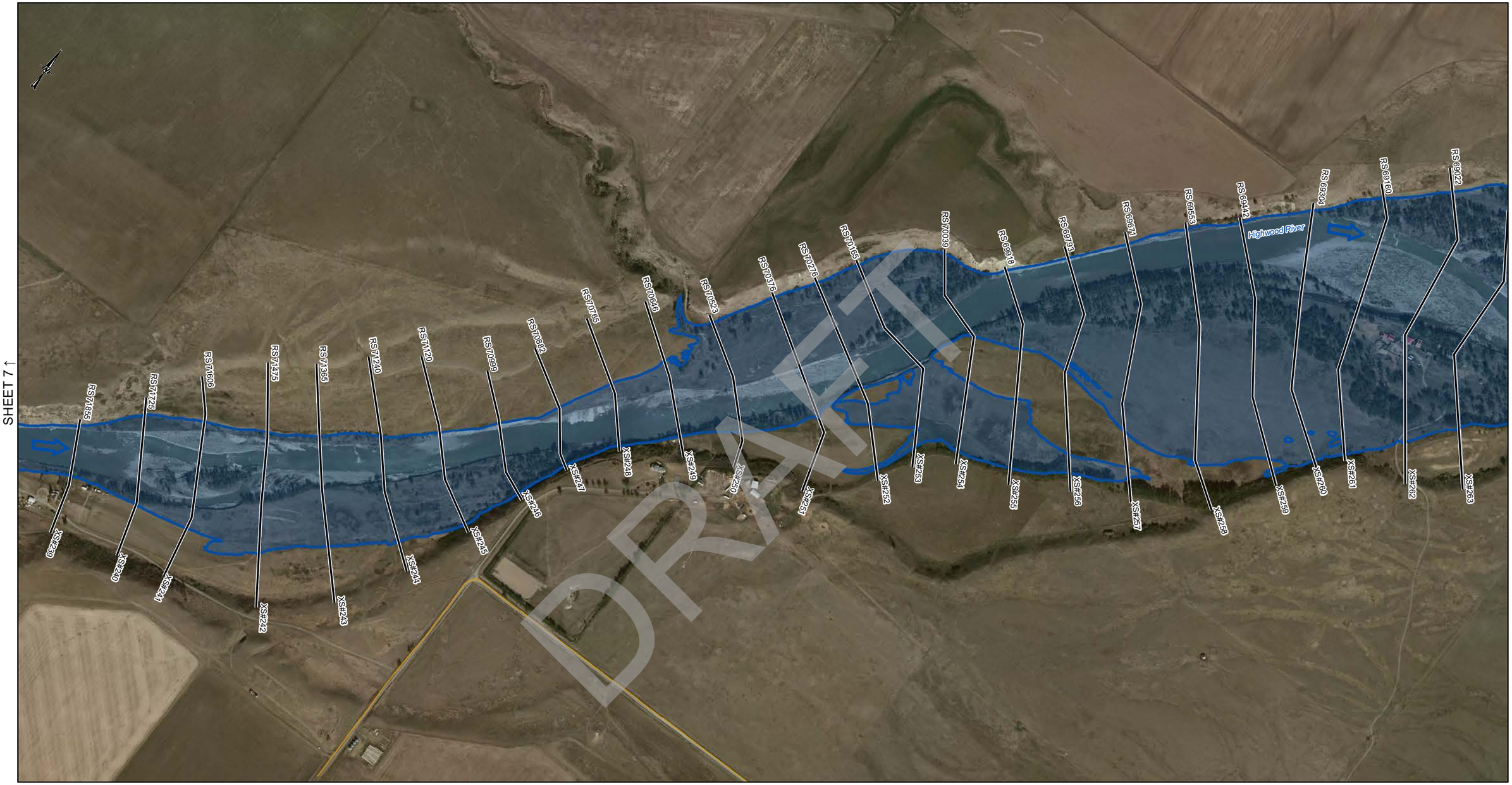
Classification: Public



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

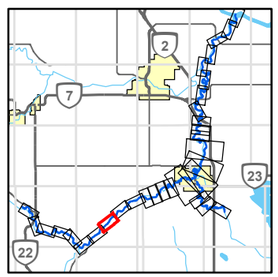
- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 2600 M^3/S



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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

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

HYDRAULIC STRUCTURES

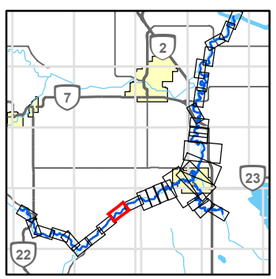
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

200 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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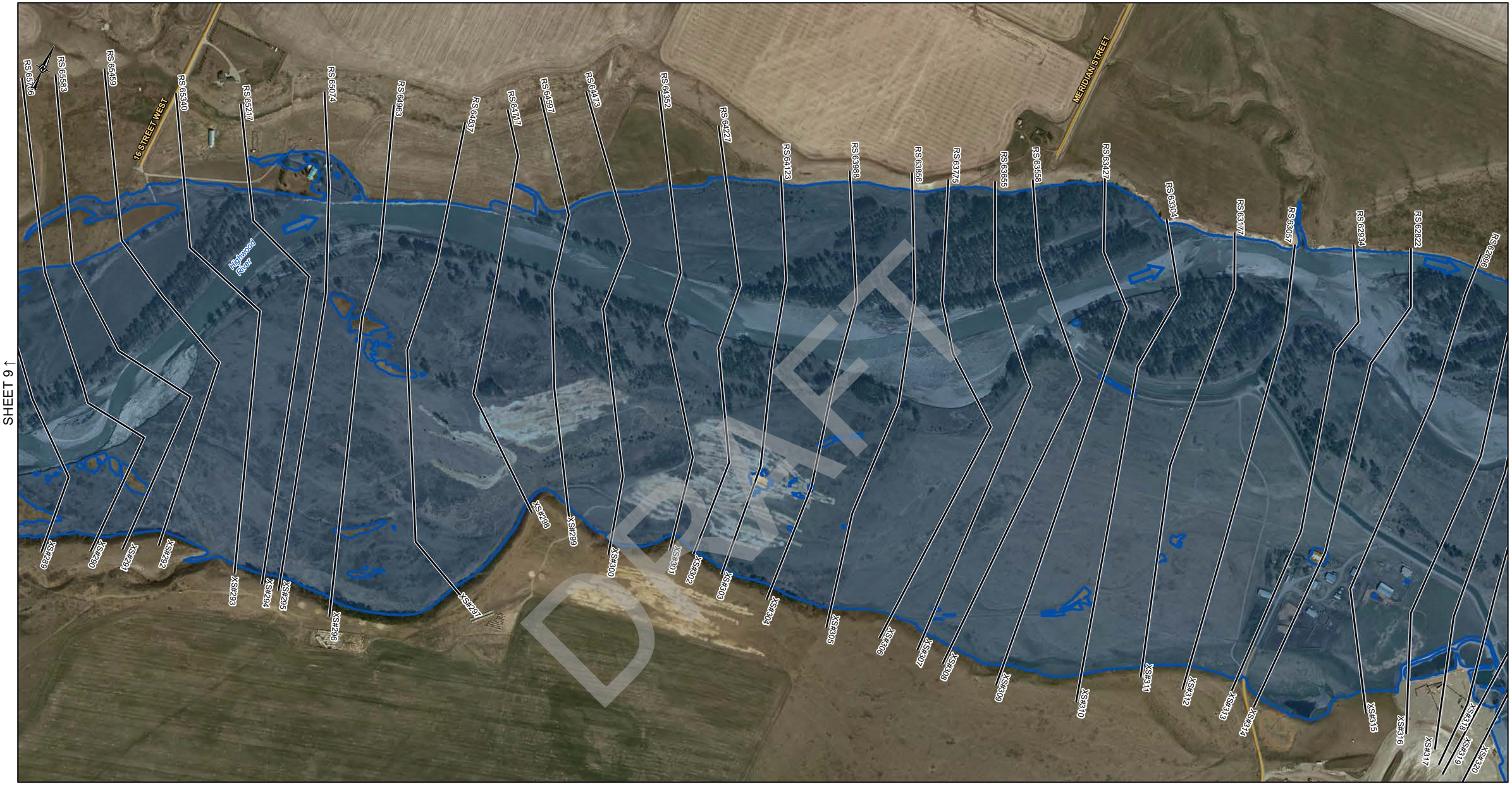
Classification: Public

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

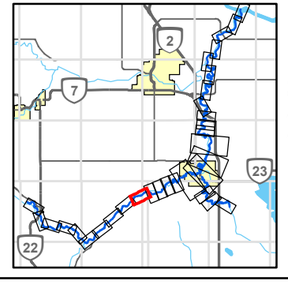
- CULVERT
- WEIR
- BRIDGE

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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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 10 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0200y-Inundation_Rev0.mxd

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25mm
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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

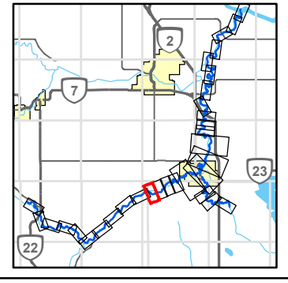
- CULVERT
- WEIR
- BRIDGE

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



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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

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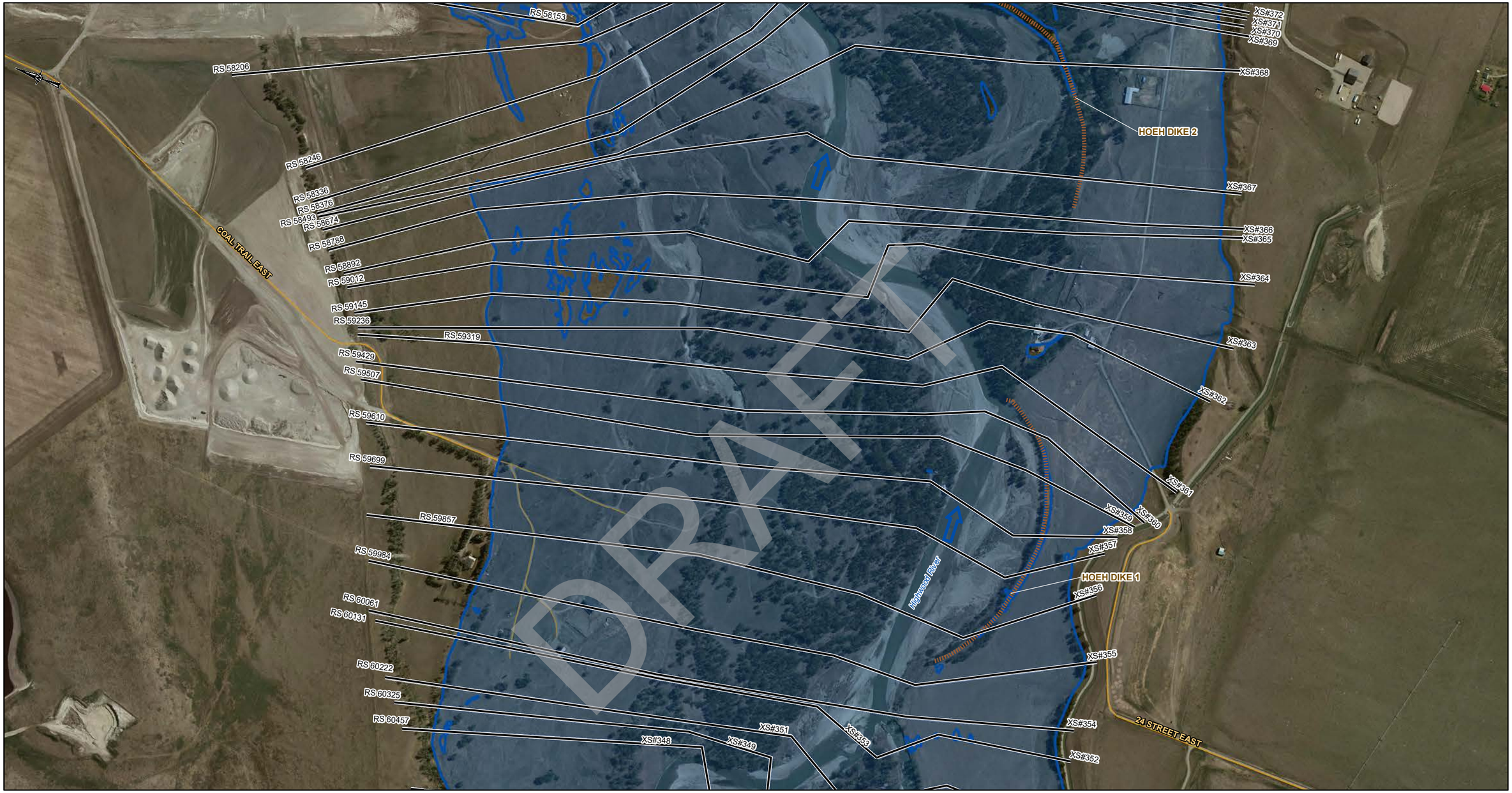
Classification: Public

SHEET 13 ↑



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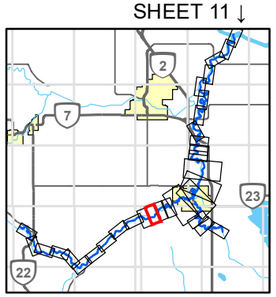

LEGEND

- 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

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 12 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Production\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

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25mm

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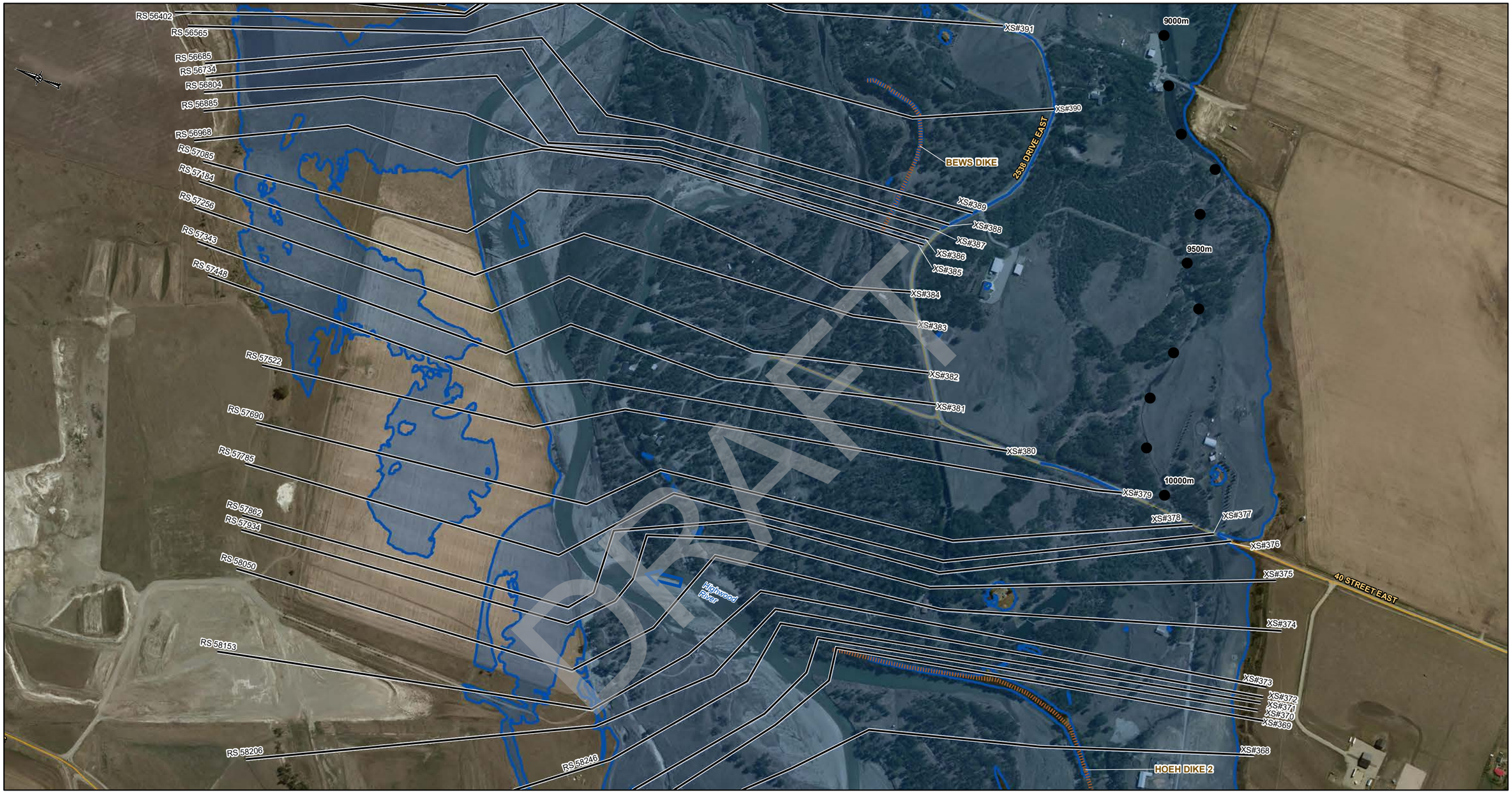
Classification: Public

SHEET 14 ↑



SHEET 12 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
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- FLOOD CONTROL STRUCTURE

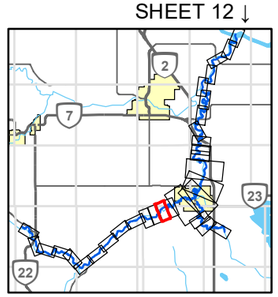
HYDRAULIC STRUCTURES

- 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



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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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25mm

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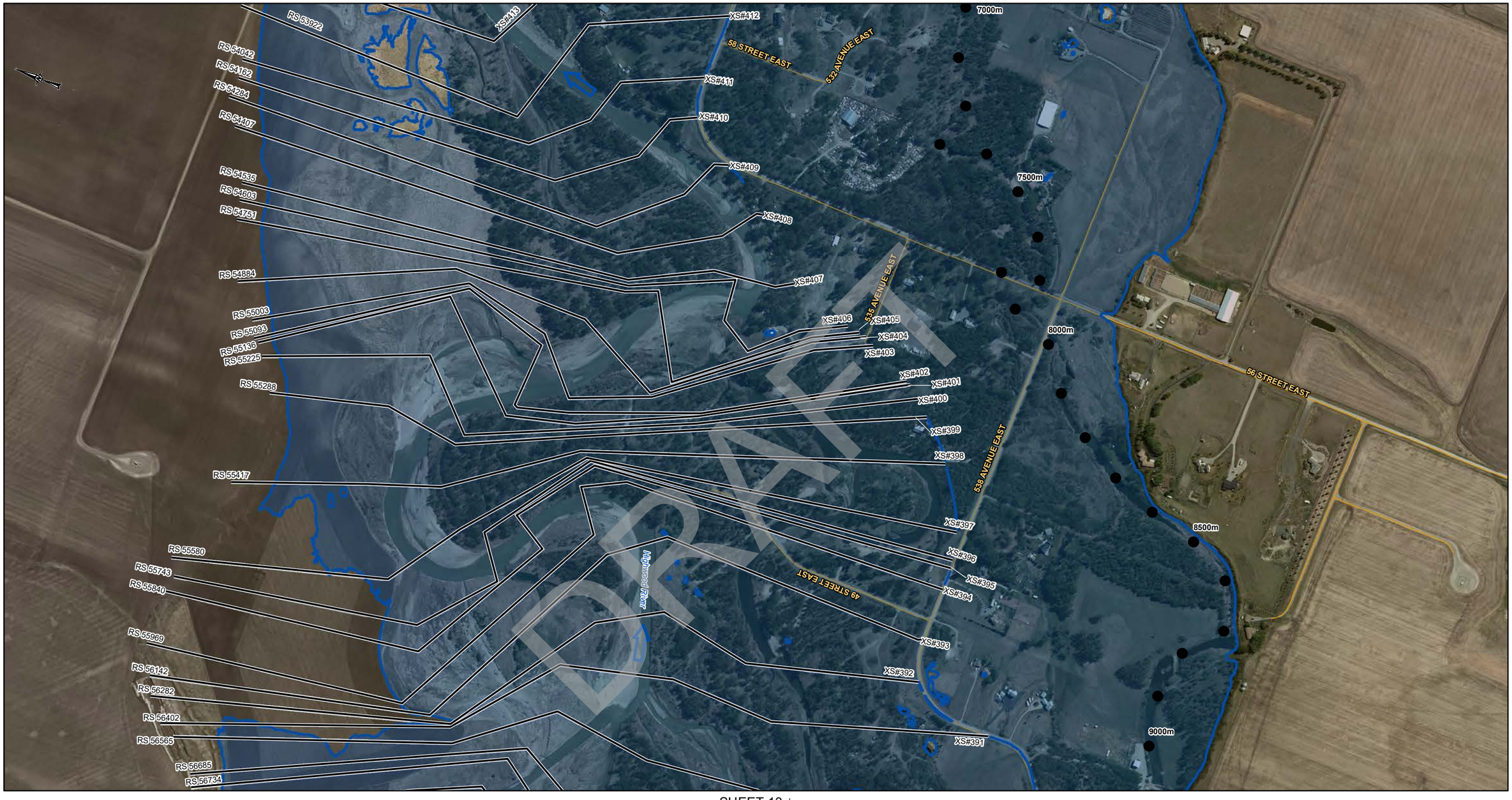
Classification: Public

SHEET 15 ↑



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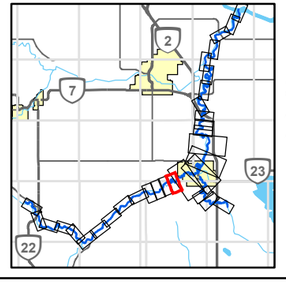

LEGEND

- 2D DOMAIN PROFILE STATION
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- STUDY BOUNDARY
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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

1:7500 METRES

CLIENT

ALBERTA ENVIRONMENT AND PARKS

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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 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

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Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓

RS 50243
RS 50717
RS 50961
RS 51527
RS 51933
RS 52094
RS 52499
RS 52578
RS 52814
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XS#415
XS#413
XS#412
XS#411
XS#410
XS#409
XS#408

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
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- FLOOD CONTROL STRUCTURE

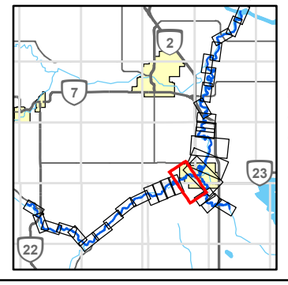
HYDRAULIC STRUCTURES

- 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



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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
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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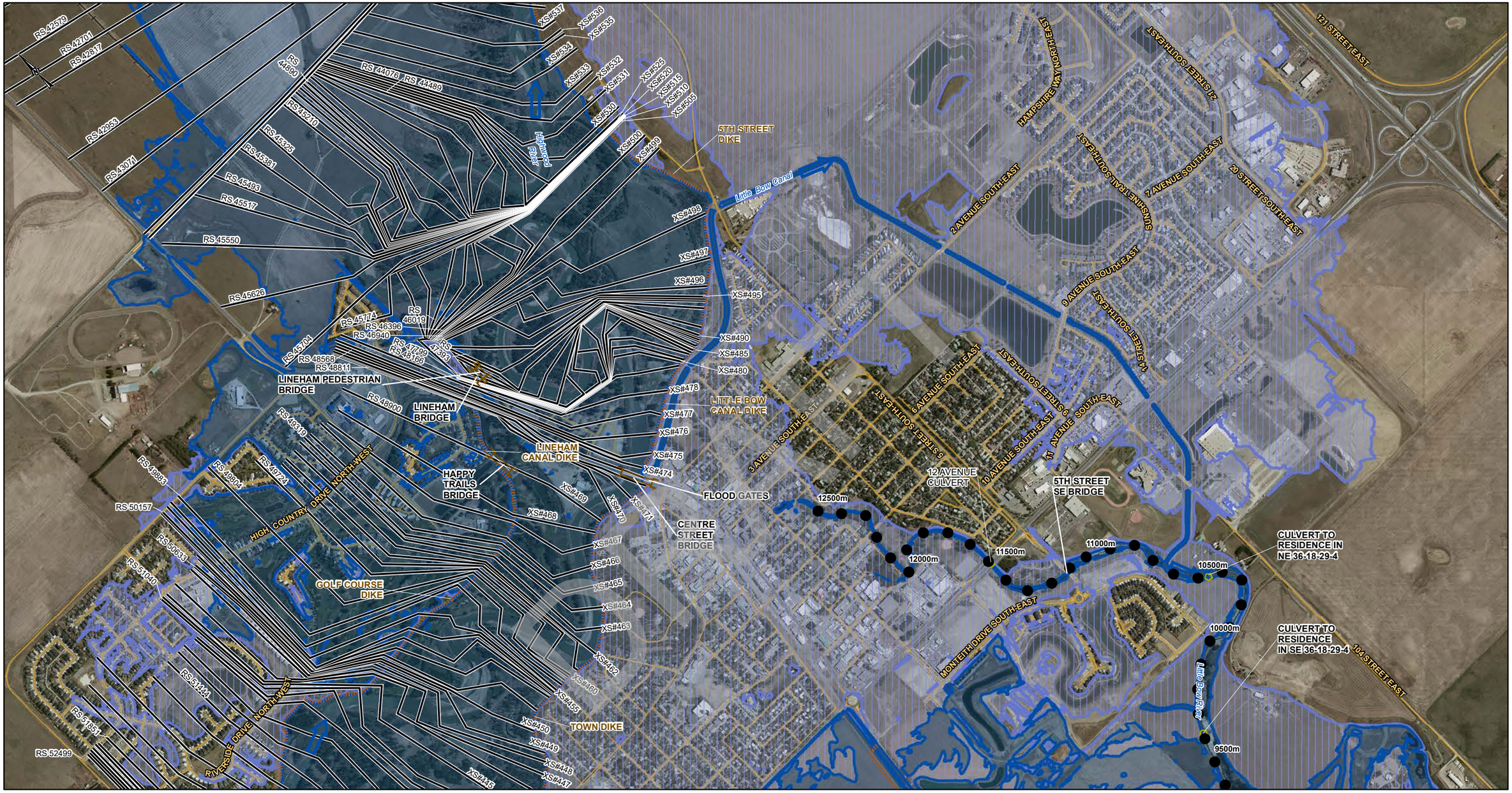
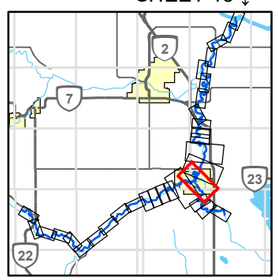
SHEET 17 ↑



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
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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
HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

0 250 500
1:15000 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 16 of 33

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25mm

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Classification: Public

SHEET 18 ↑


RS 40551
RS 40792
RS 40814
RS 41084
RS 41274
RS 41514
RS 41635
RS 41751
RS 41873
RS 41981
RS 42105
RS 42224
RS 42343
RS 42461
RS 42579
RS 42701
RS 42817
RS 42953
RS 43071
RS 43189
RS 43307
RS 43425
RS 43543
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RS 43897
RS 44015
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RS 45195
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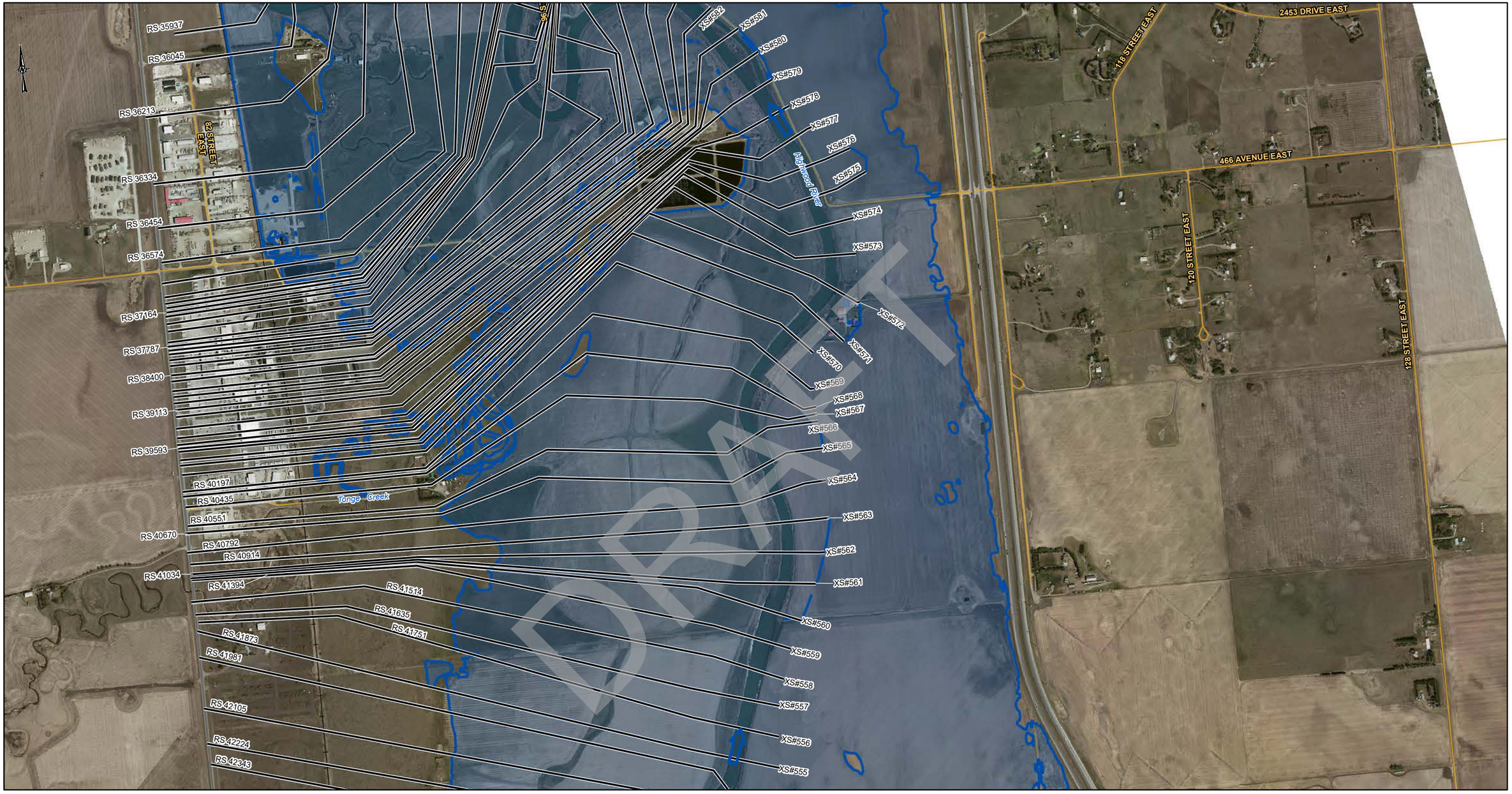
SHEET 19 ↑



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

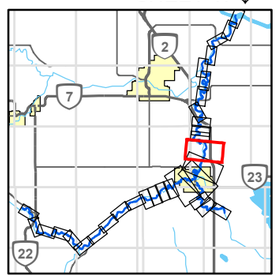
200-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 1800 M^3/S

SHEET 17 ↓



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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 18 of 33

Classification: Public

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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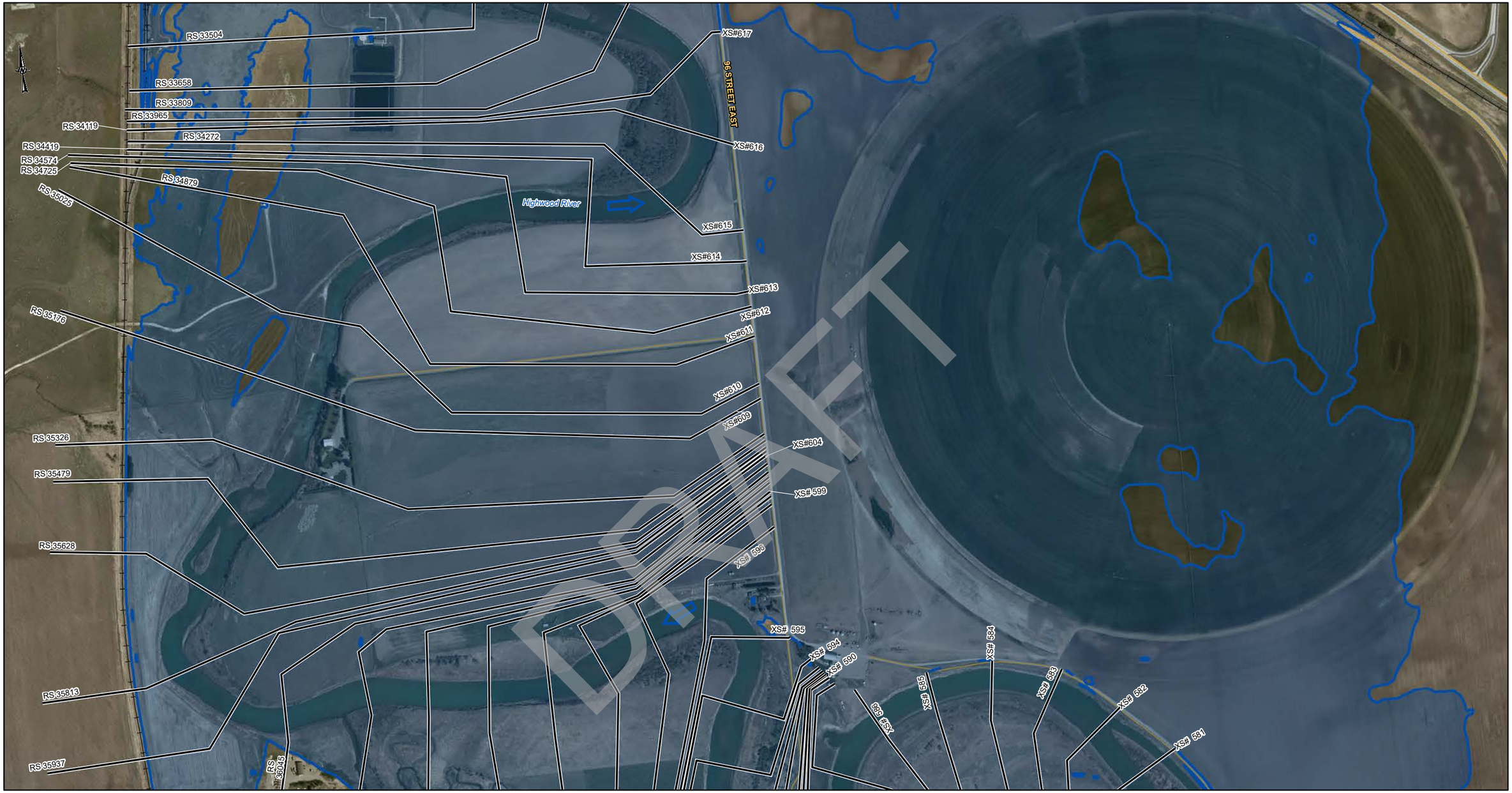
0 25mm

SHEET 20 ↑



DRAFT

LEGEND

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- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
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HYDRAULIC STRUCTURES

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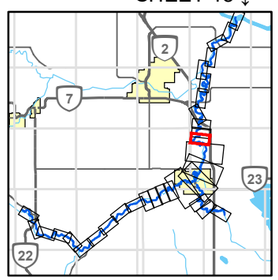
200-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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

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 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 ↑



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

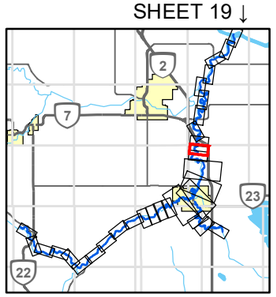
- CULVERT
- WEIR
- BRIDGE

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

SHEET 19 ↓



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REFERENCE(S)

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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 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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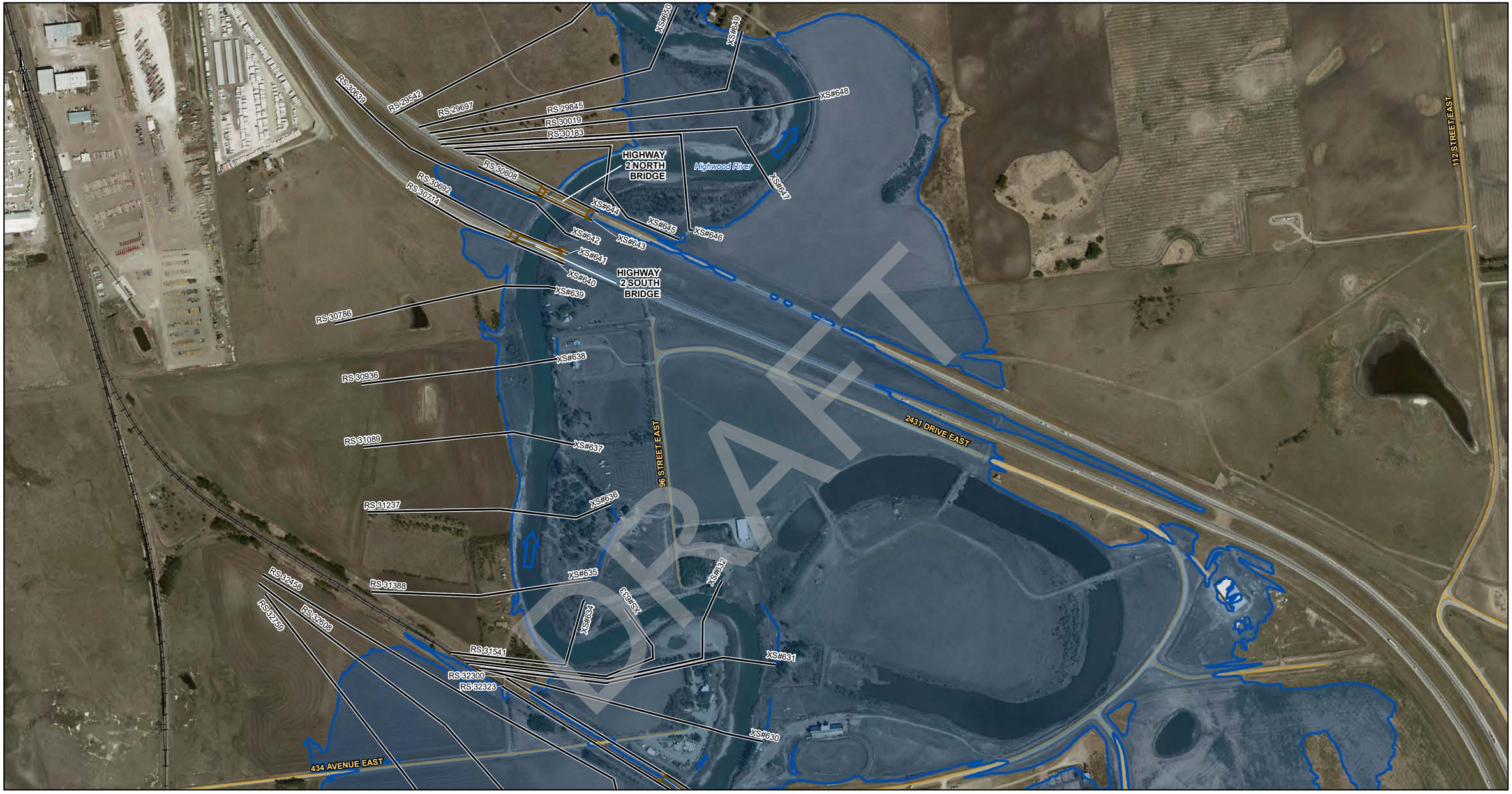
Classification: Public

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

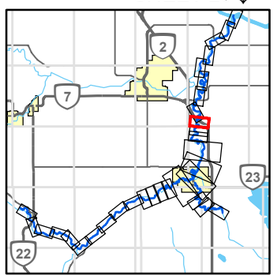
- CULVERT
- WEIR
- BRIDGE

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 ↓



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PREPARED	NB
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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



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

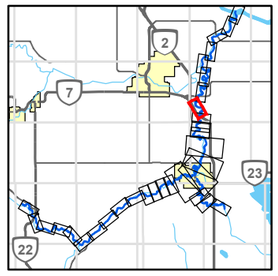
- CULVERT
- WEIR
- BRIDGE

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



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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 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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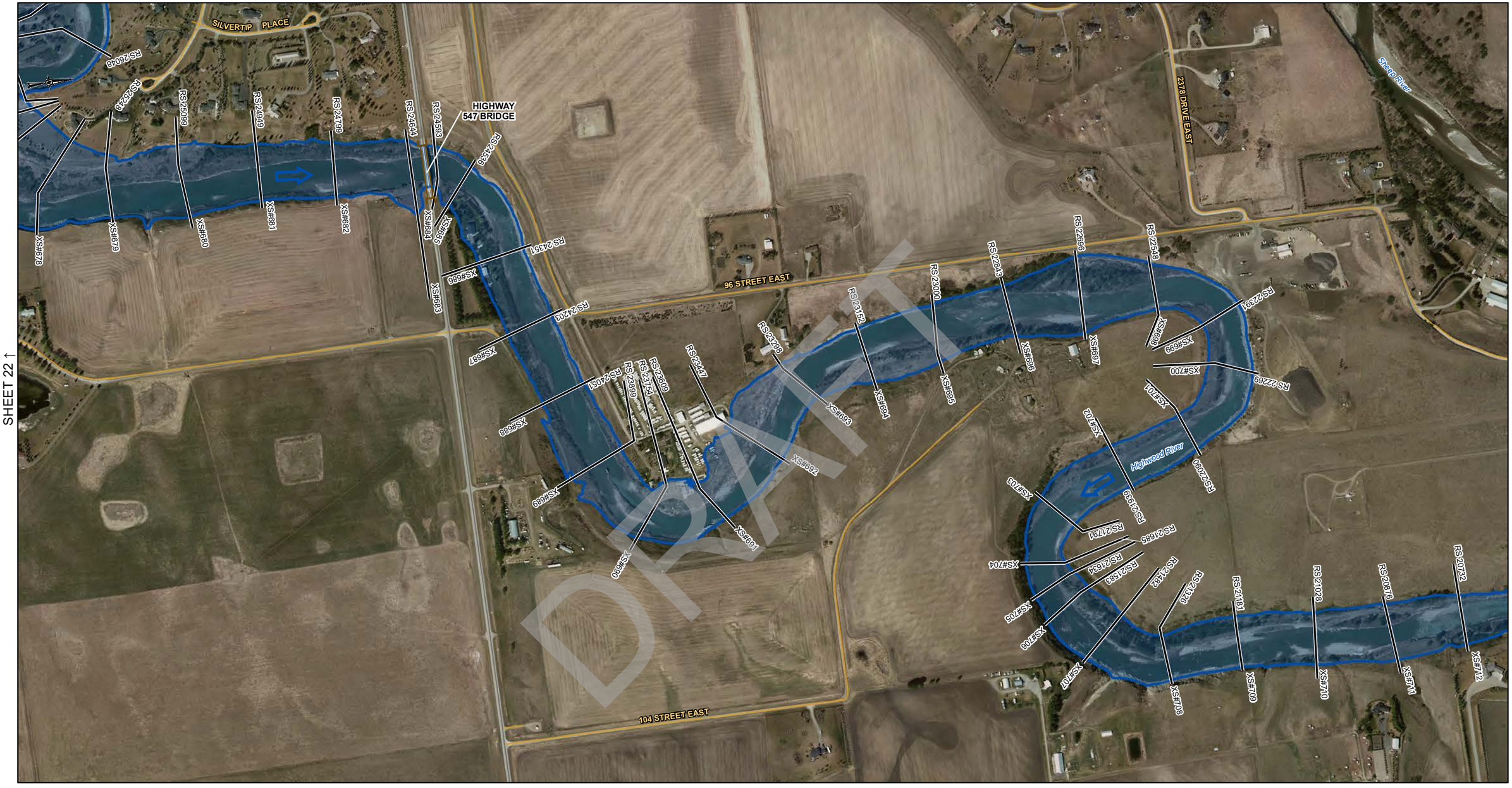
Classification: Public

SHEET 22 ↑

SHEET 24 ↓



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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

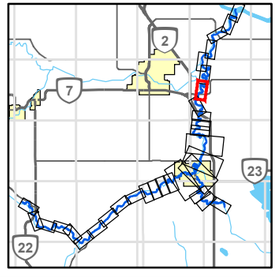
- CULVERT
- WEIR
- BRIDGE

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



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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
200 YEAR INUNDATION EXTENT

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_2200y-Inundation_Rev0.mxd

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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

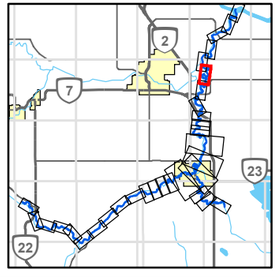
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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 24 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

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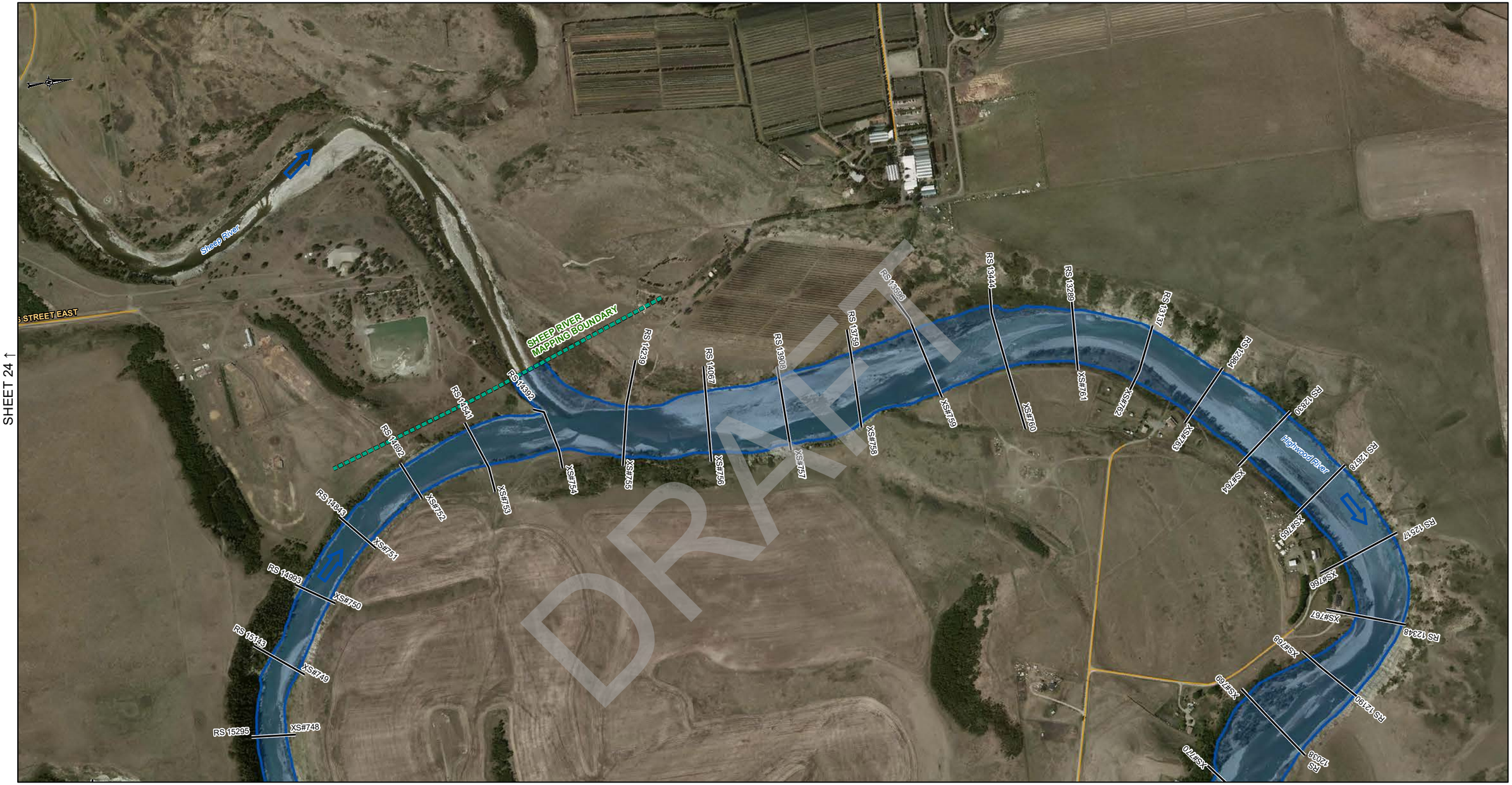
Classification: Public

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

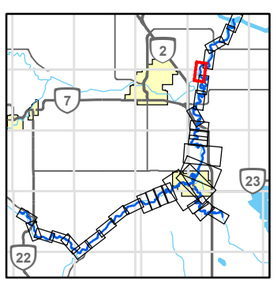
- CULVERT
- WEIR
- BRIDGE

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



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

TITLE
200 YEAR INUNDATION EXTENT

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0200y-Inundation_Rev0.mxd

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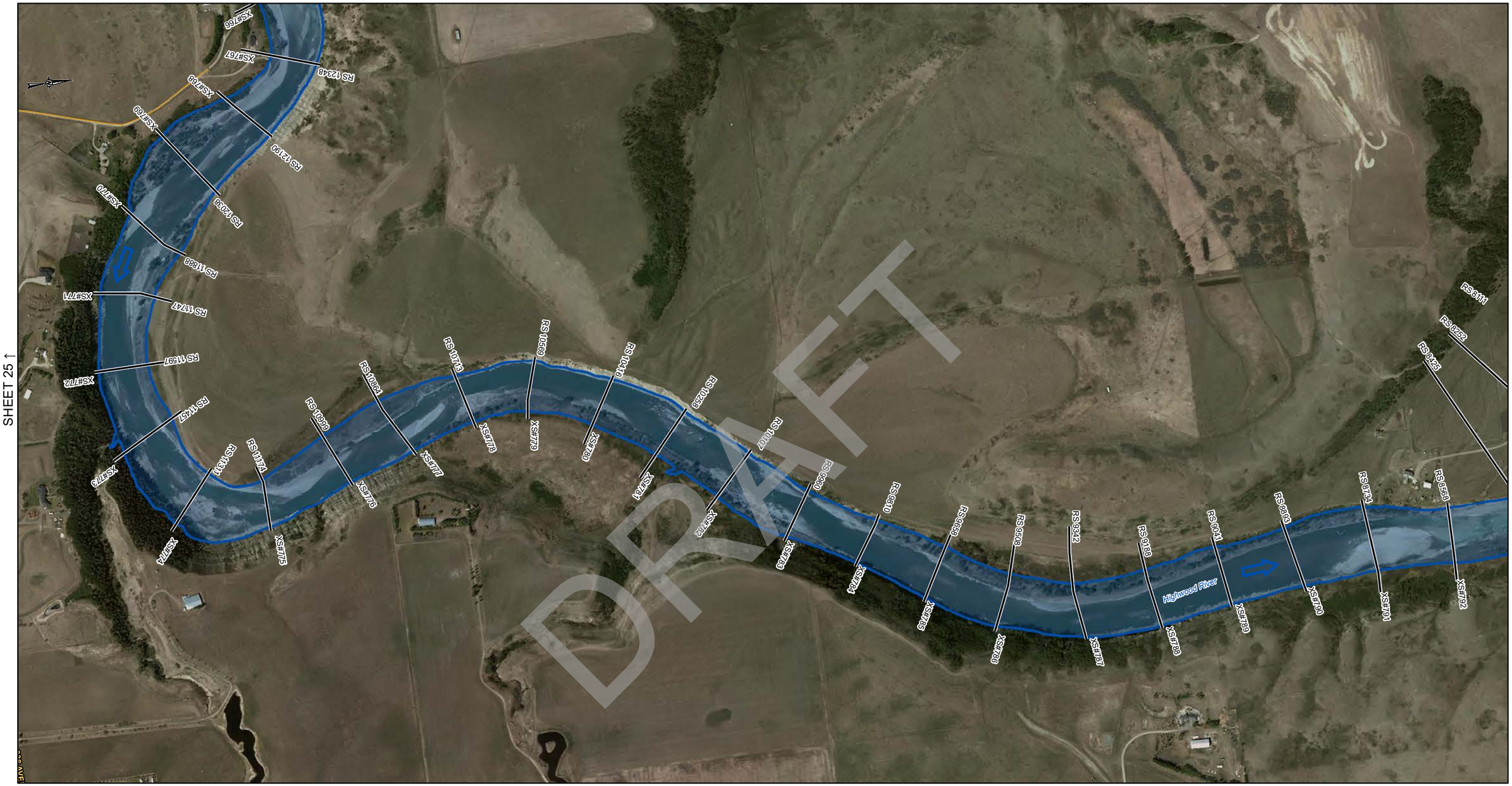
Classification: Public

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

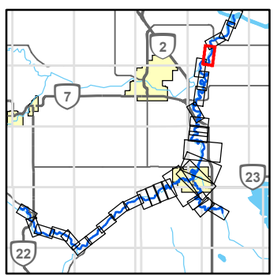
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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

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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

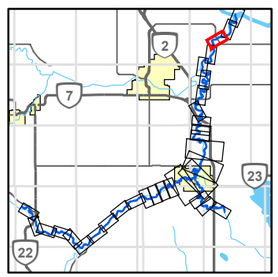
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 YEAR INUNDATION EXTENT

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

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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

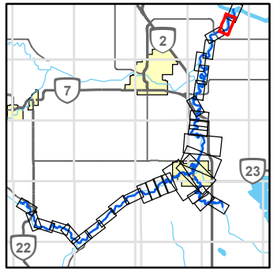
- CULVERT
- WEIR
- BRIDGE

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



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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 28 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0200y-Inundation_Rev0.mxd

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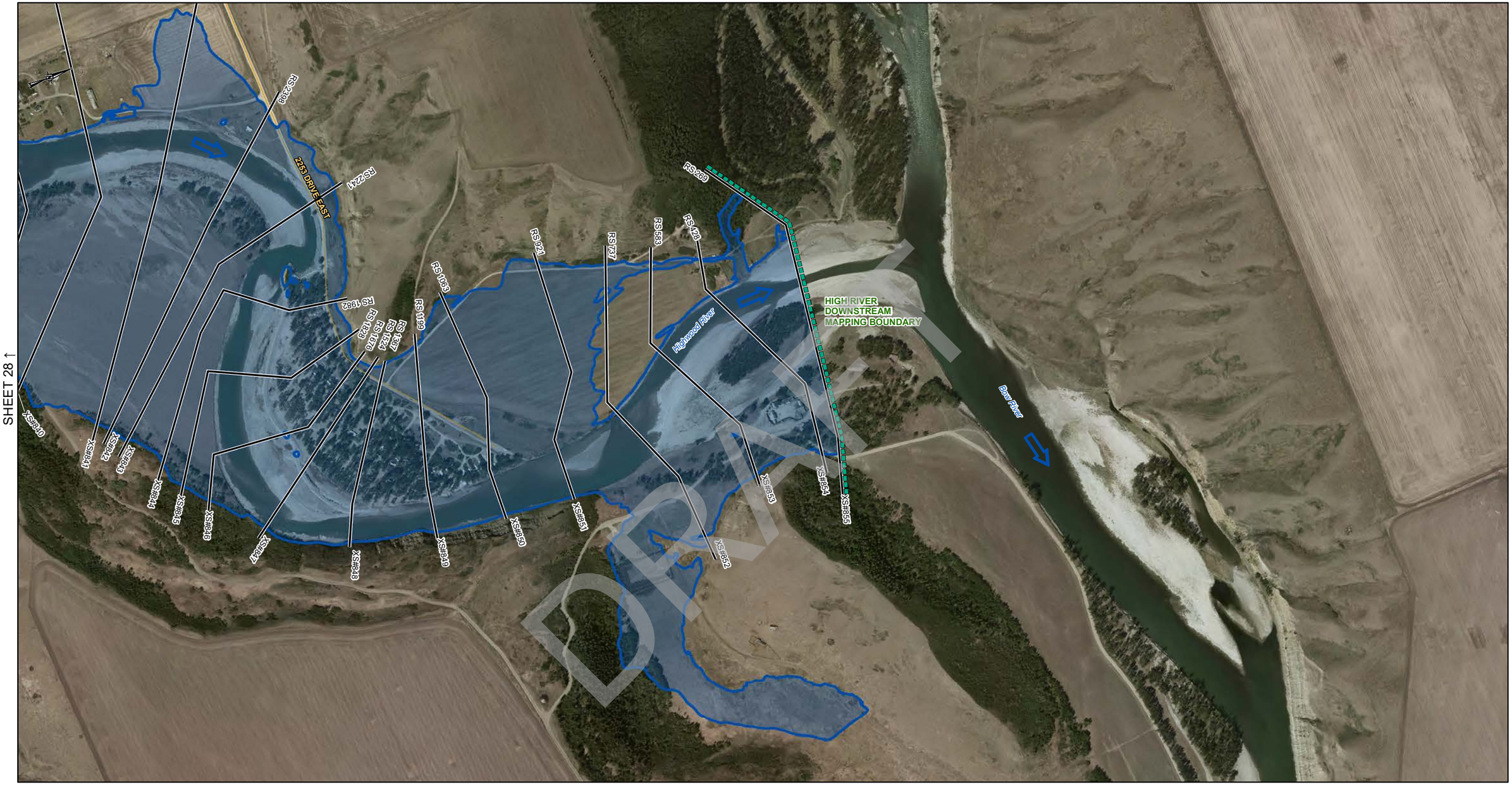
Classification: Public



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

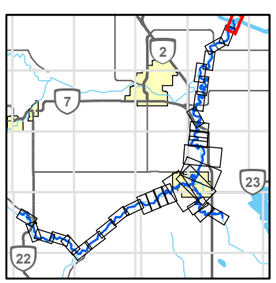
- CULVERT
- WEIR
- BRIDGE

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

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 29 of 33

PATH: I:\CLIENT\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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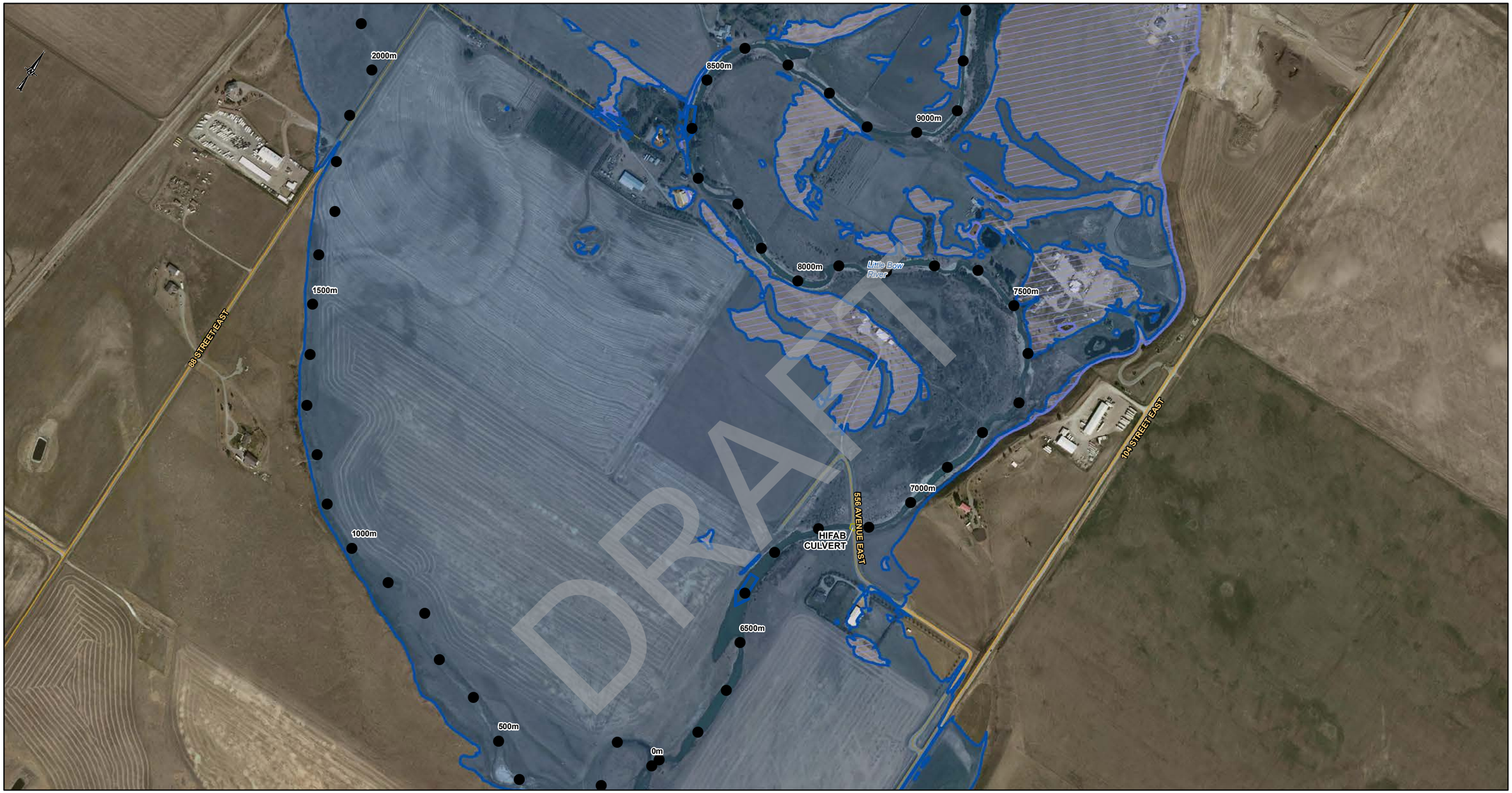
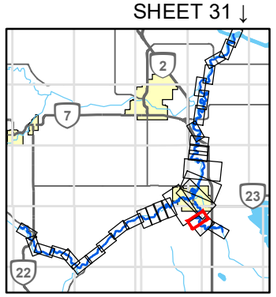
Classification: Public

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

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

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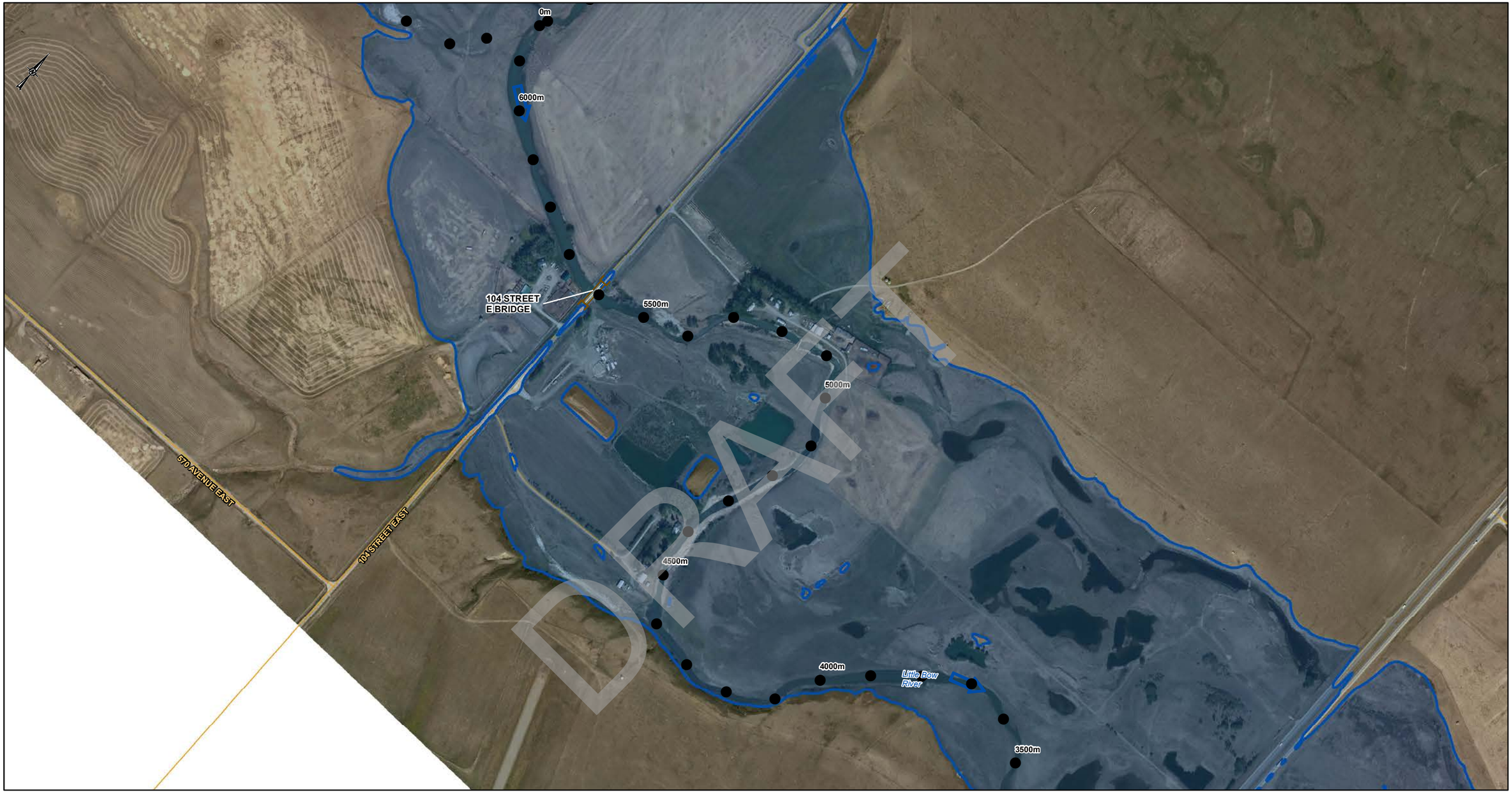
Classification: Public

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

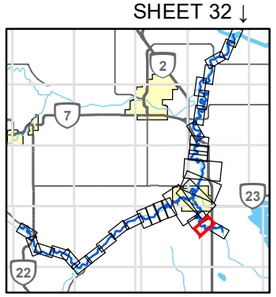
- CULVERT
- WEIR
- BRIDGE

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
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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
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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 31 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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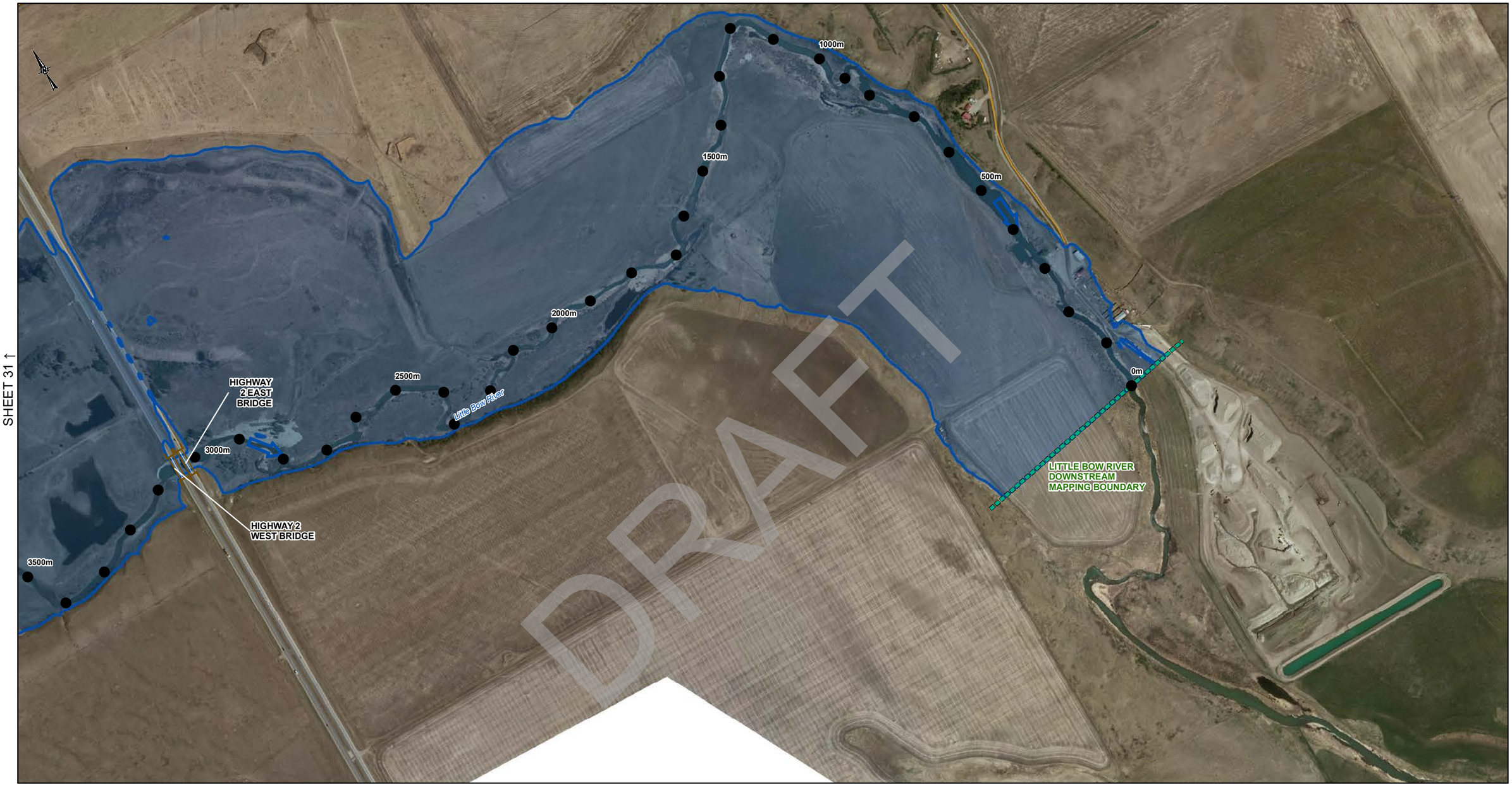
Classification: Public



SHEET 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

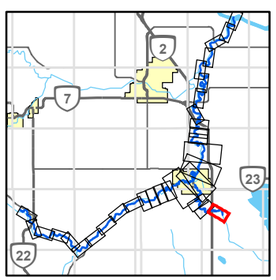
HYDRAULIC STRUCTURES

- 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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
200 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_2200y-Inundation_Rev0.mxd

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25mm

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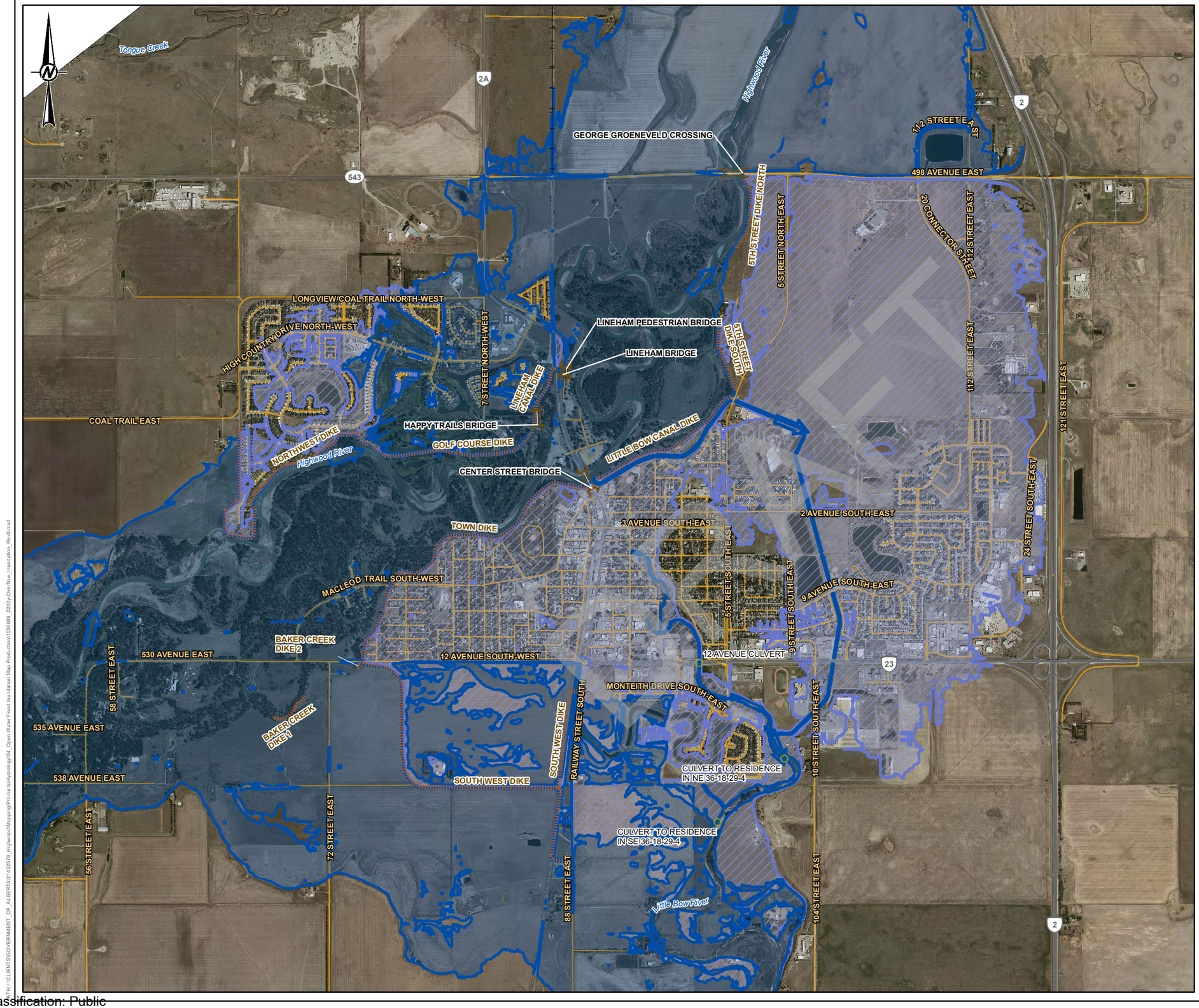
Classification: Public



LEGEND

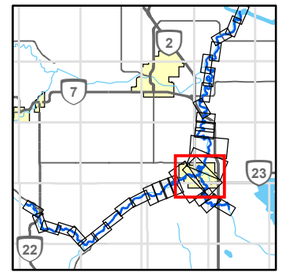
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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



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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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Classification: Public

350-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

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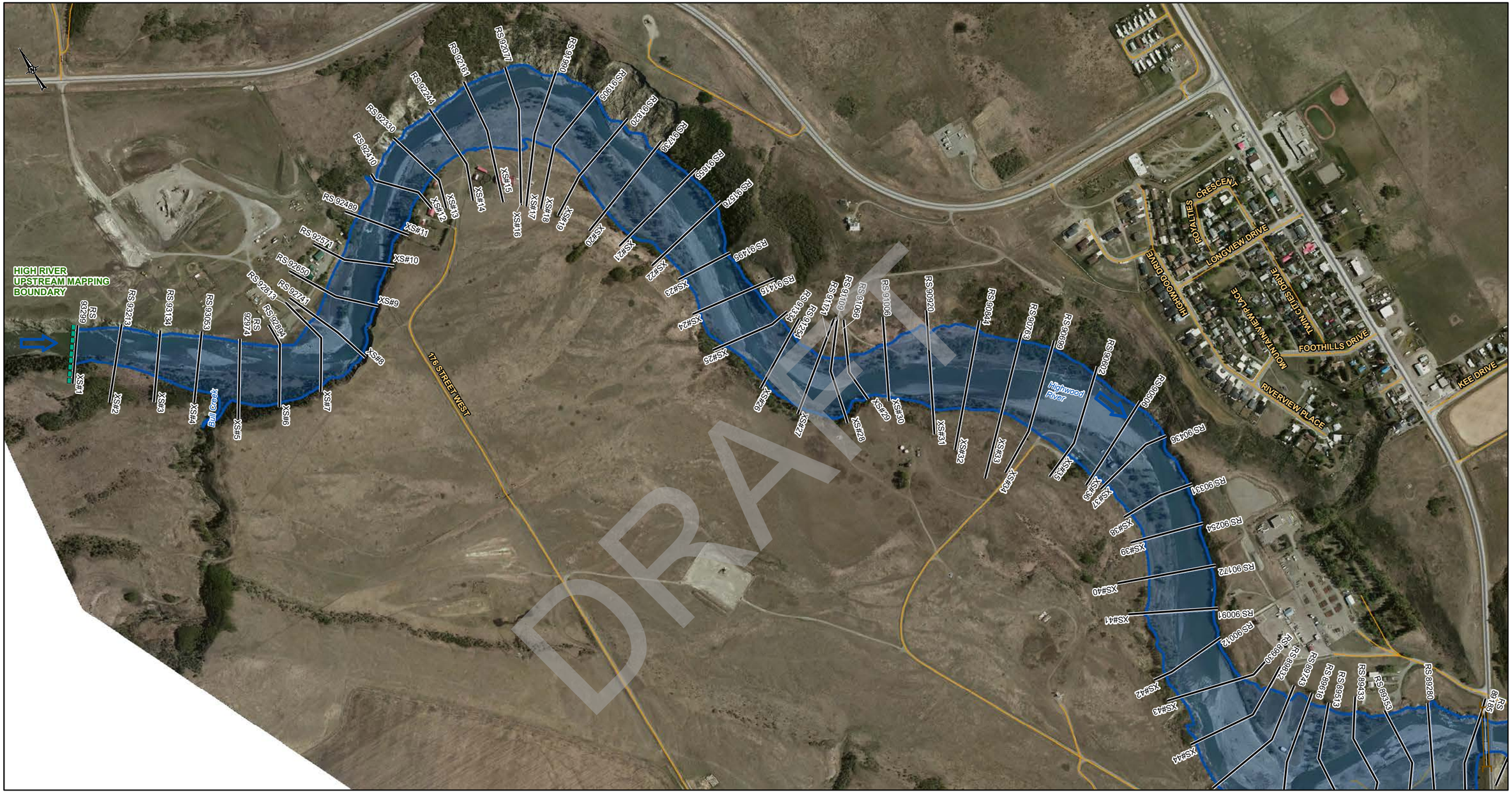


SHEET 2 ↓

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

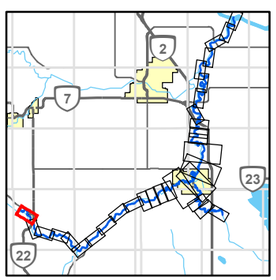
HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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



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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 1 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350y-Inundation_Rev0.mxd

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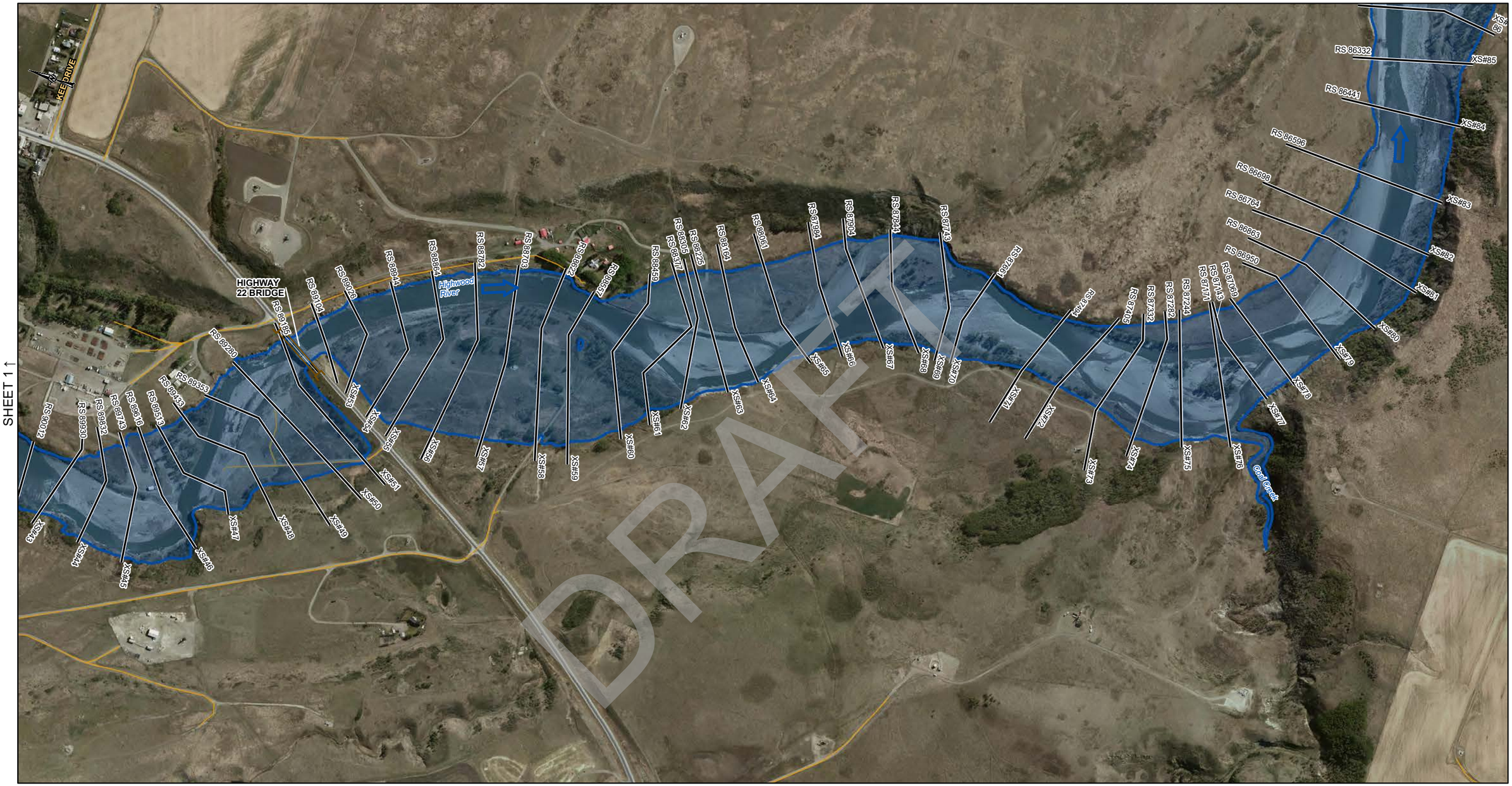
Classification: Public



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

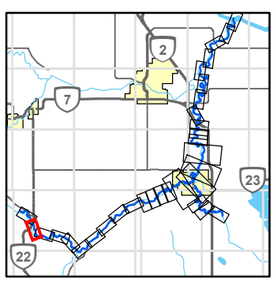
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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YYYY-MM-DD	2022-03-31
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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 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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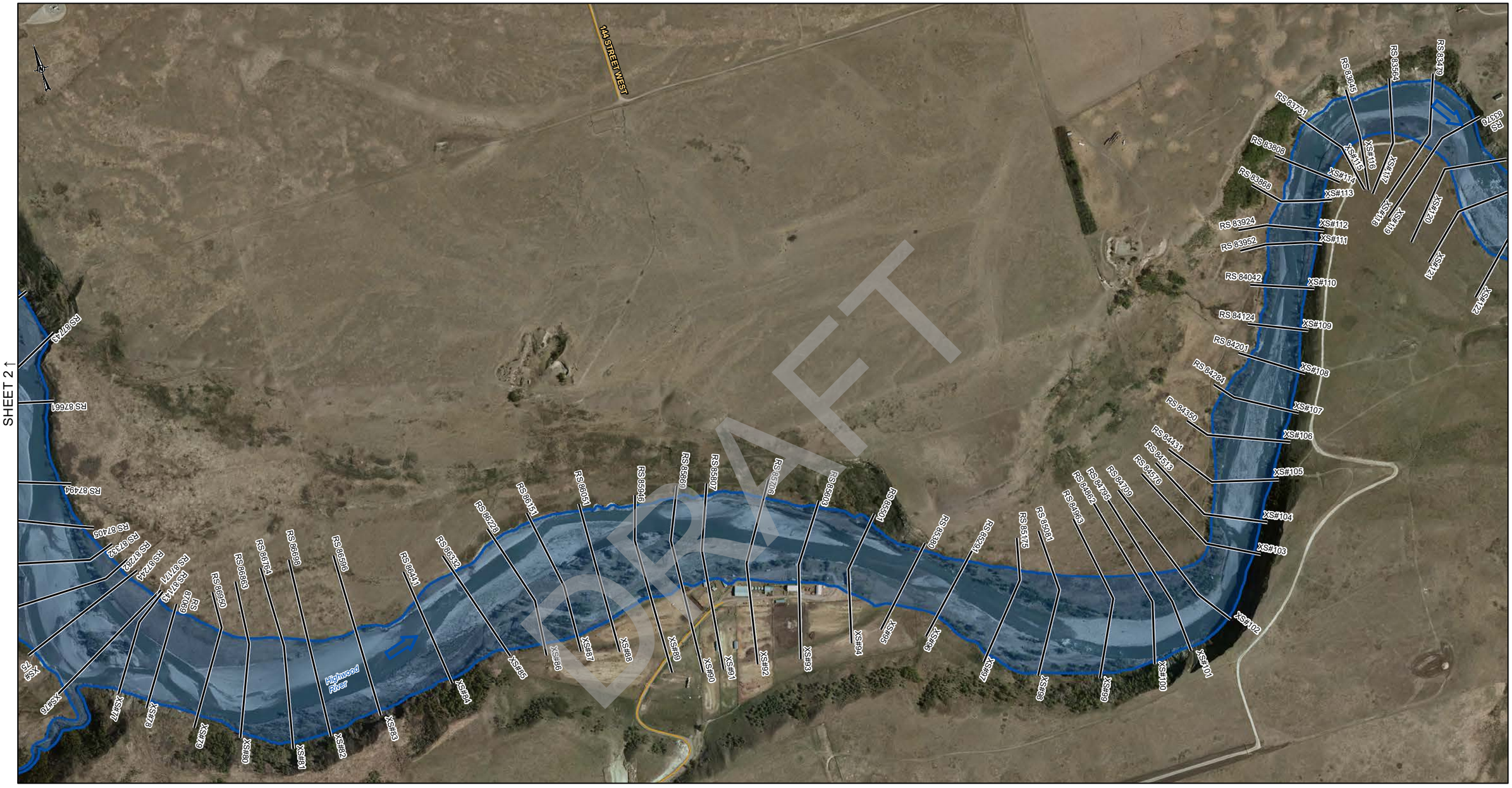
Classification: Public

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

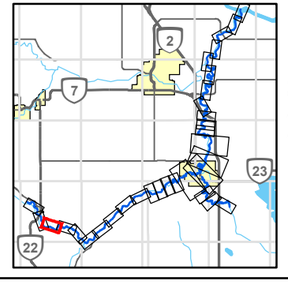
- CULVERT
- WEIR
- BRIDGE

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



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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

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_0350y-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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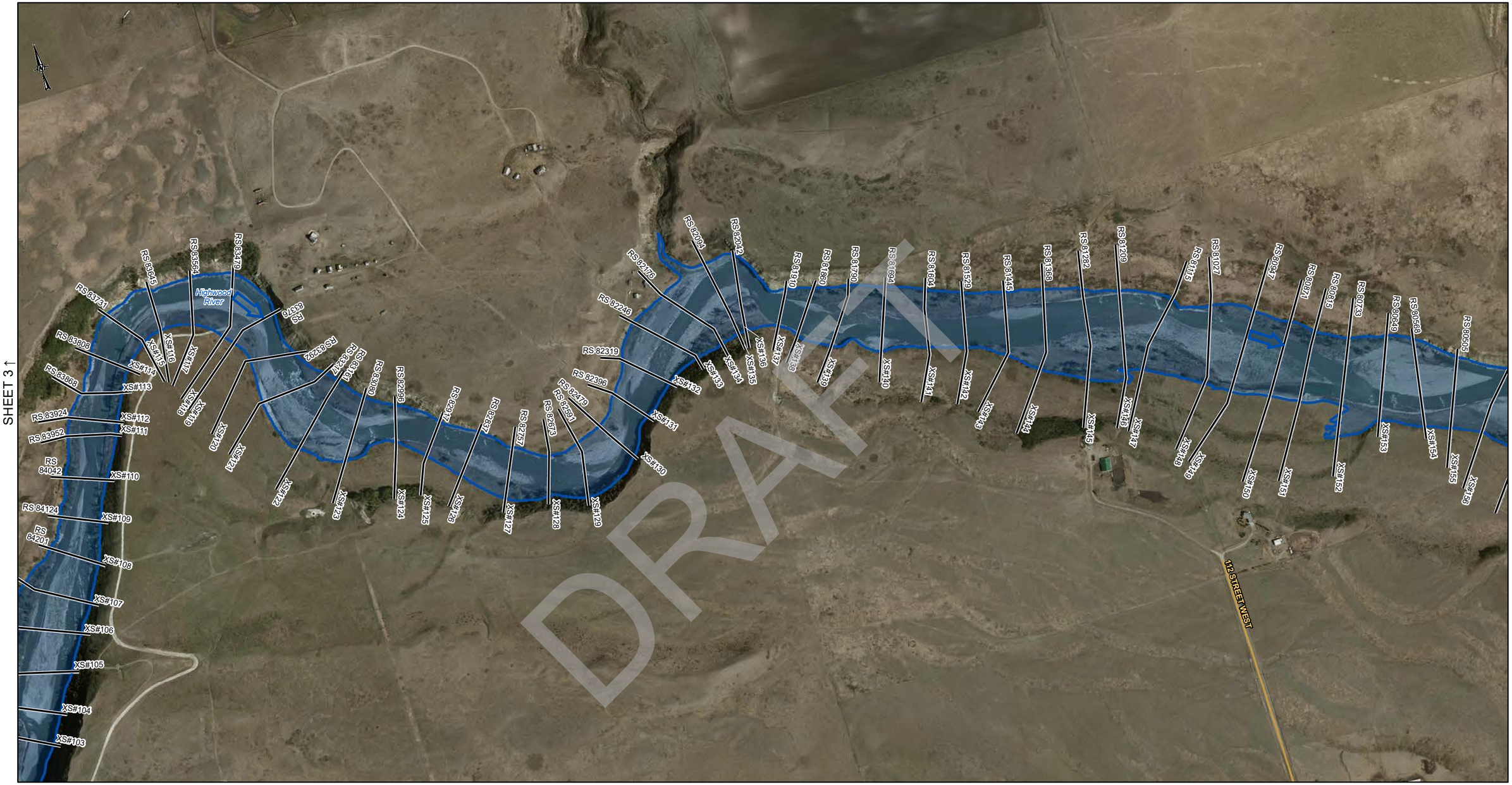
Classification: Public



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

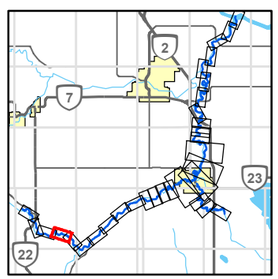
- CULVERT
- WEIR
- BRIDGE

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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Alberta Government

CONSULTANT

GOLDER MEMBER OF WSP

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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 4 of 33

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

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

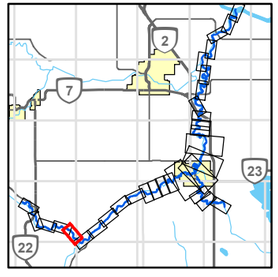
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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Alberta Government

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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 5 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21462576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

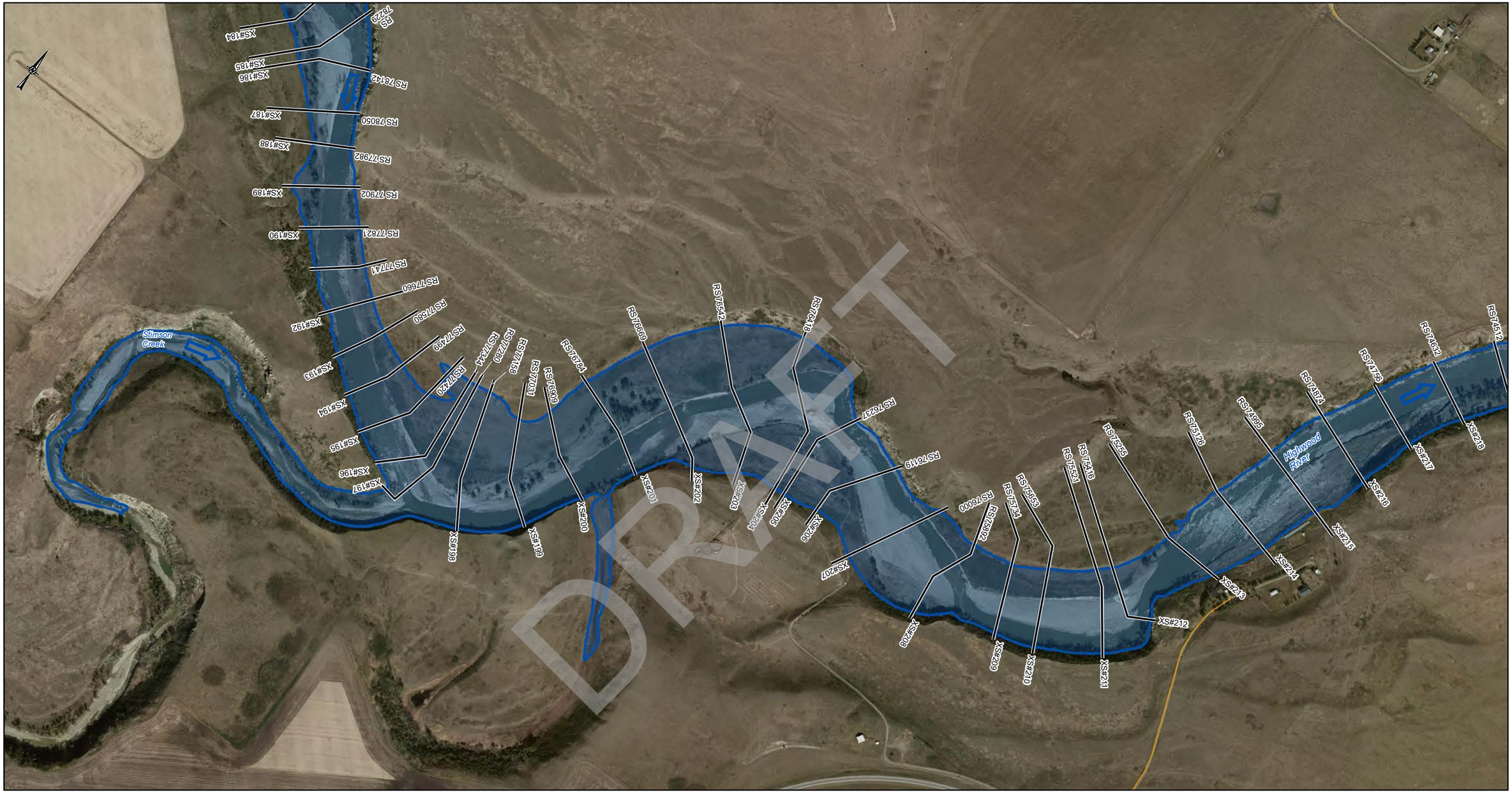
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

SHEET 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

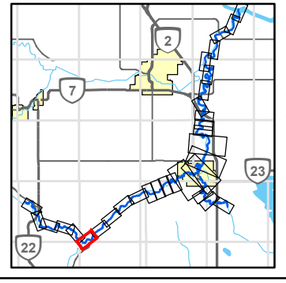
- CULVERT
- WEIR
- BRIDGE

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



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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

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 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

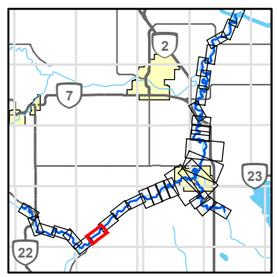
- CULVERT
- WEIR
- BRIDGE

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



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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
350 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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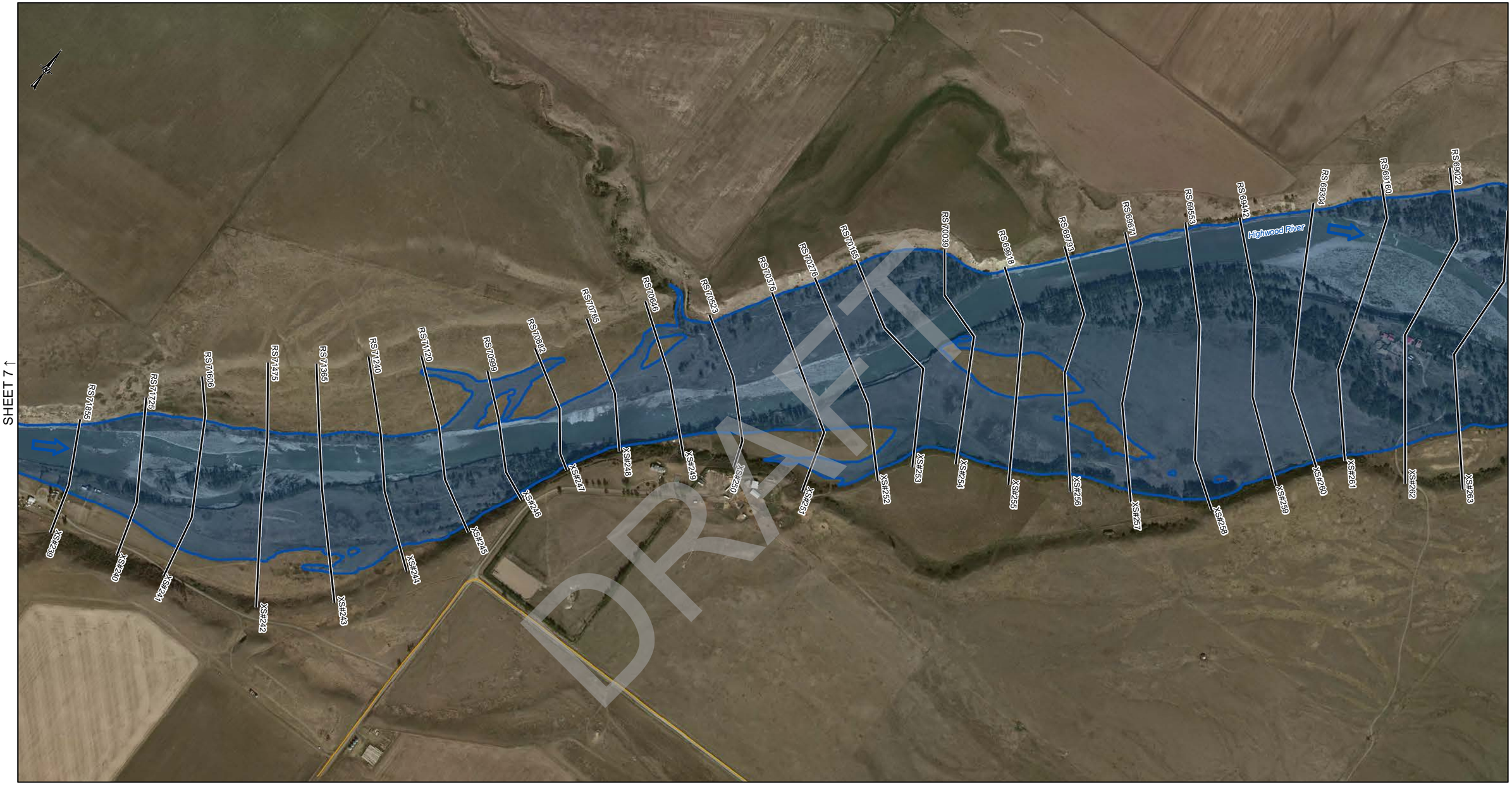
Classification: Public

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

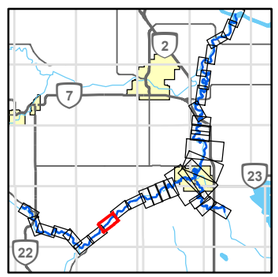
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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Alberta Government

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GOLDER
MEMBER OF WSP

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

TITLE
350 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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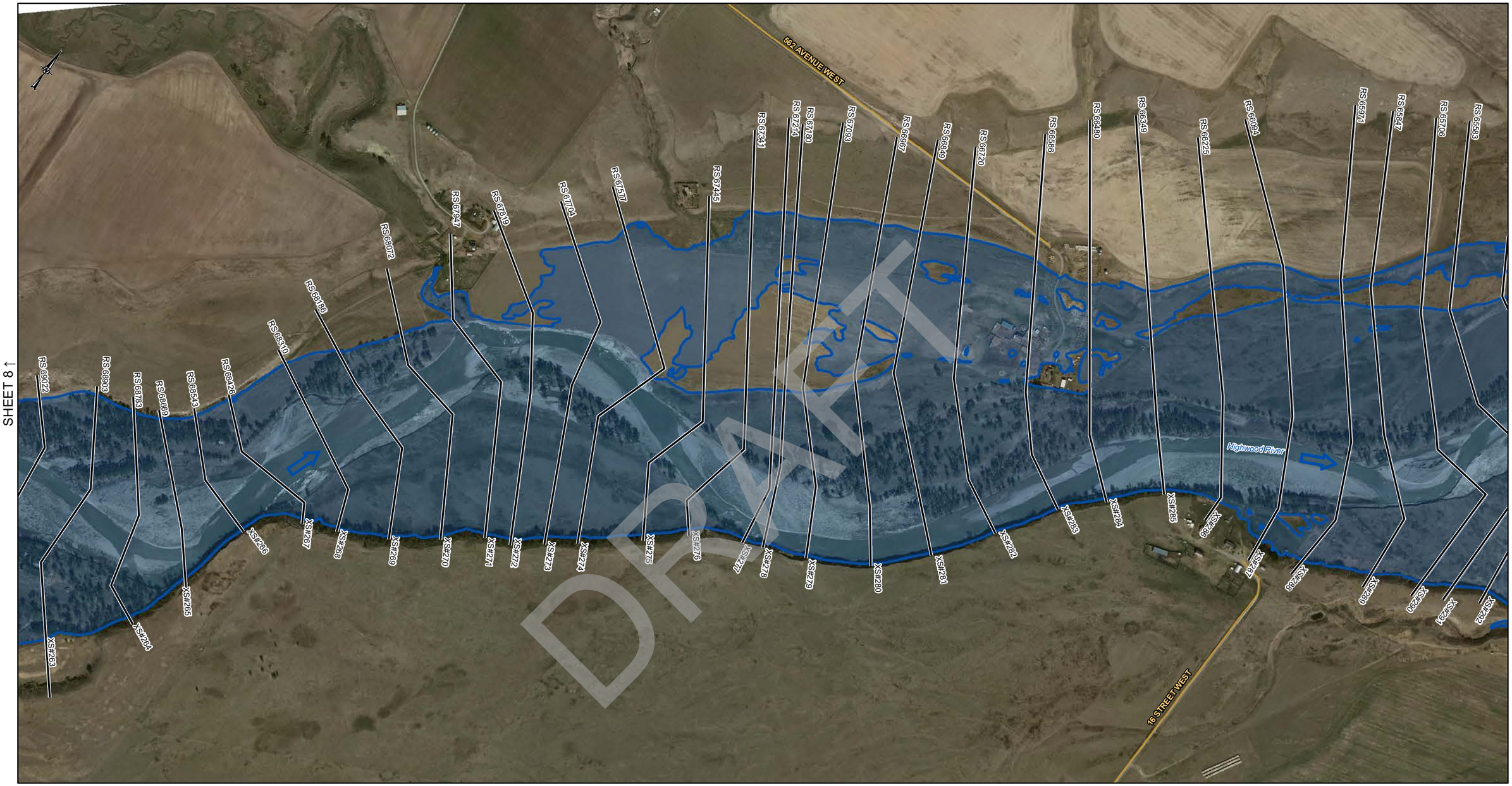
Classification: Public

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

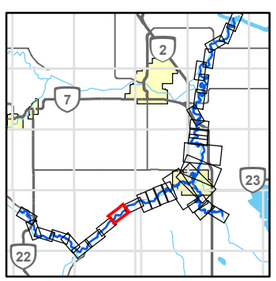
- CULVERT
- WEIR
- BRIDGE

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



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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
350 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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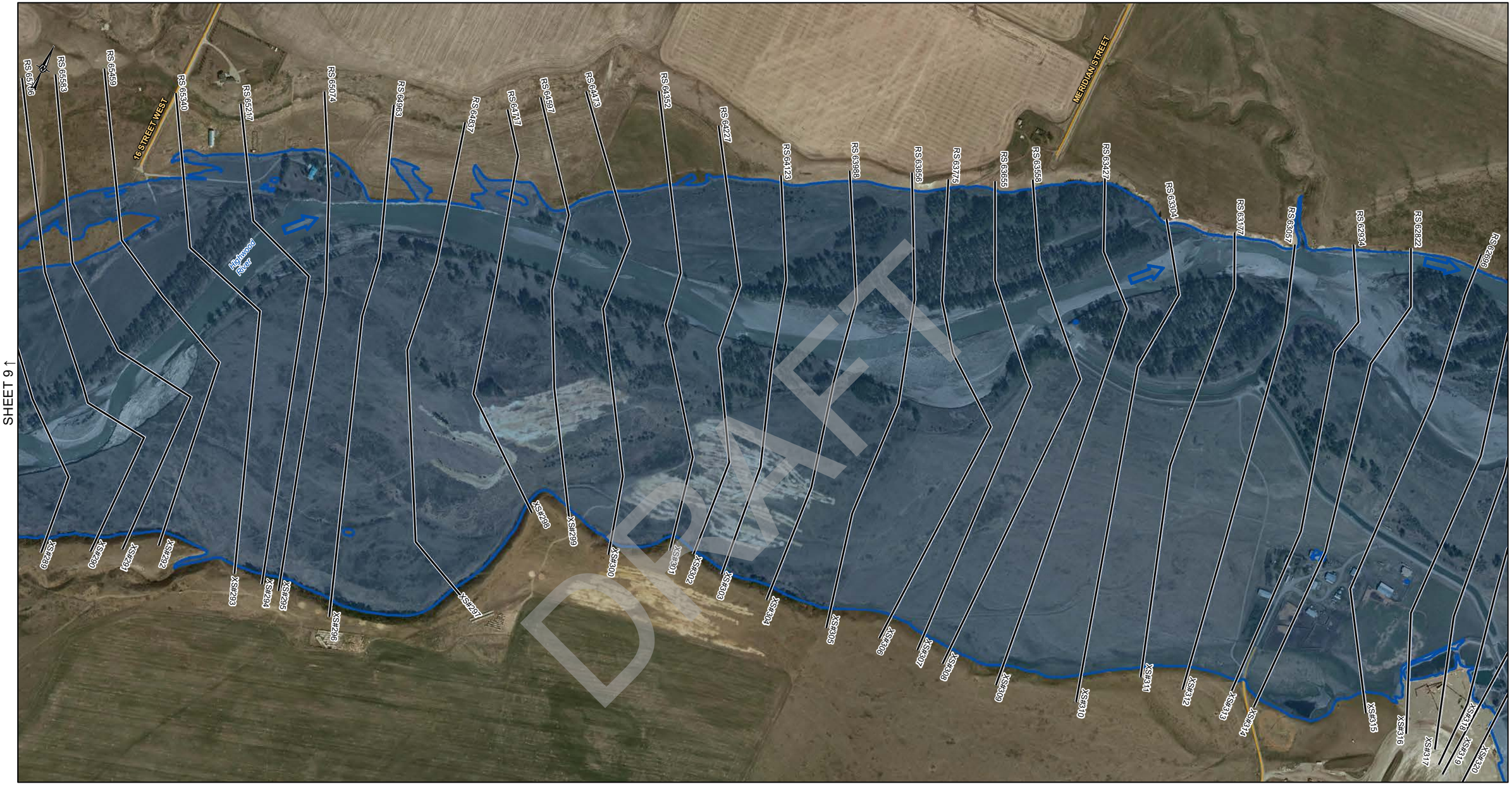
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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

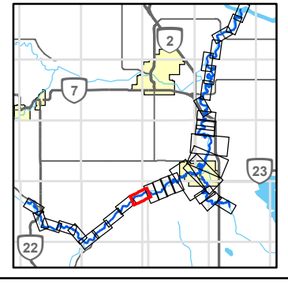
- CULVERT
- WEIR
- BRIDGE

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



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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
350 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_0350y-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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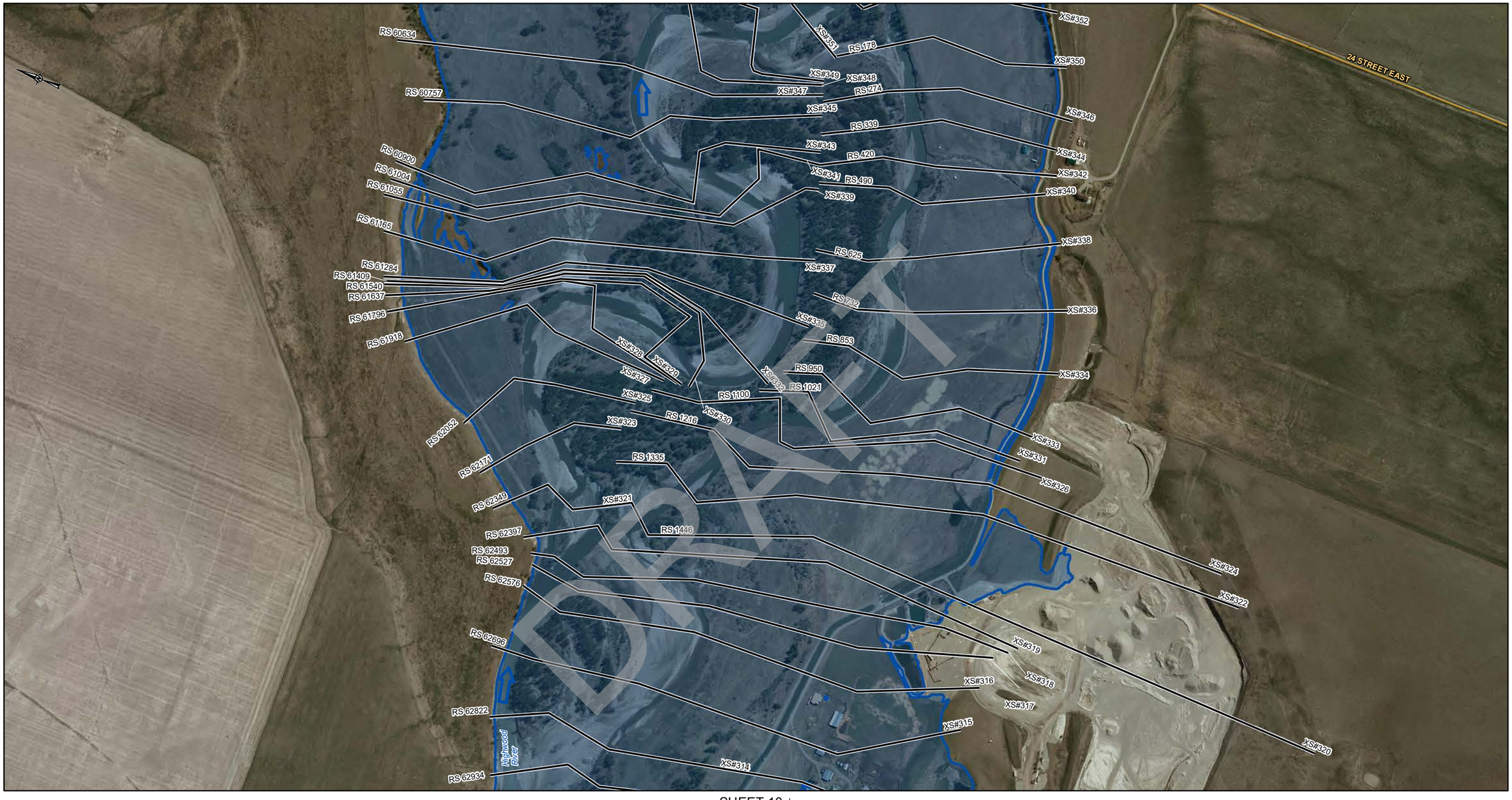
Classification: Public

SHEET 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

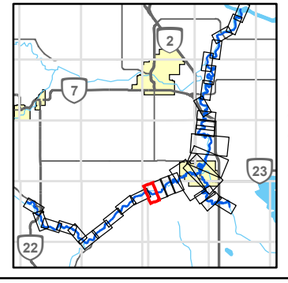
- CULVERT
- WEIR
- BRIDGE

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



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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
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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Classification: Public

SHEET 13 ↑

RS 58153
RS 58206
RS 58246
RS 58333
RS 58376
RS 58493
RS 58674
RS 58788
RS 58892
RS 59012
RS 59145
RS 59236
RS 59319
RS 59429
RS 59507
RS 59610
RS 59699
RS 59857
RS 59984
RS 60061
RS 60131
RS 60222
RS 60325
RS 60457

XS#372
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XS#359
XS#360
XS#358
XS#357
XS#356
XS#355
XS#354
XS#352
XS#351
XS#353
XS#349
XS#348

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

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
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

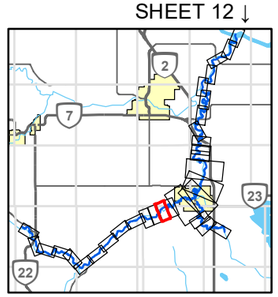
- CULVERT
- WEIR
- BRIDGE

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 ↓



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PREPARED	NB
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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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25mm

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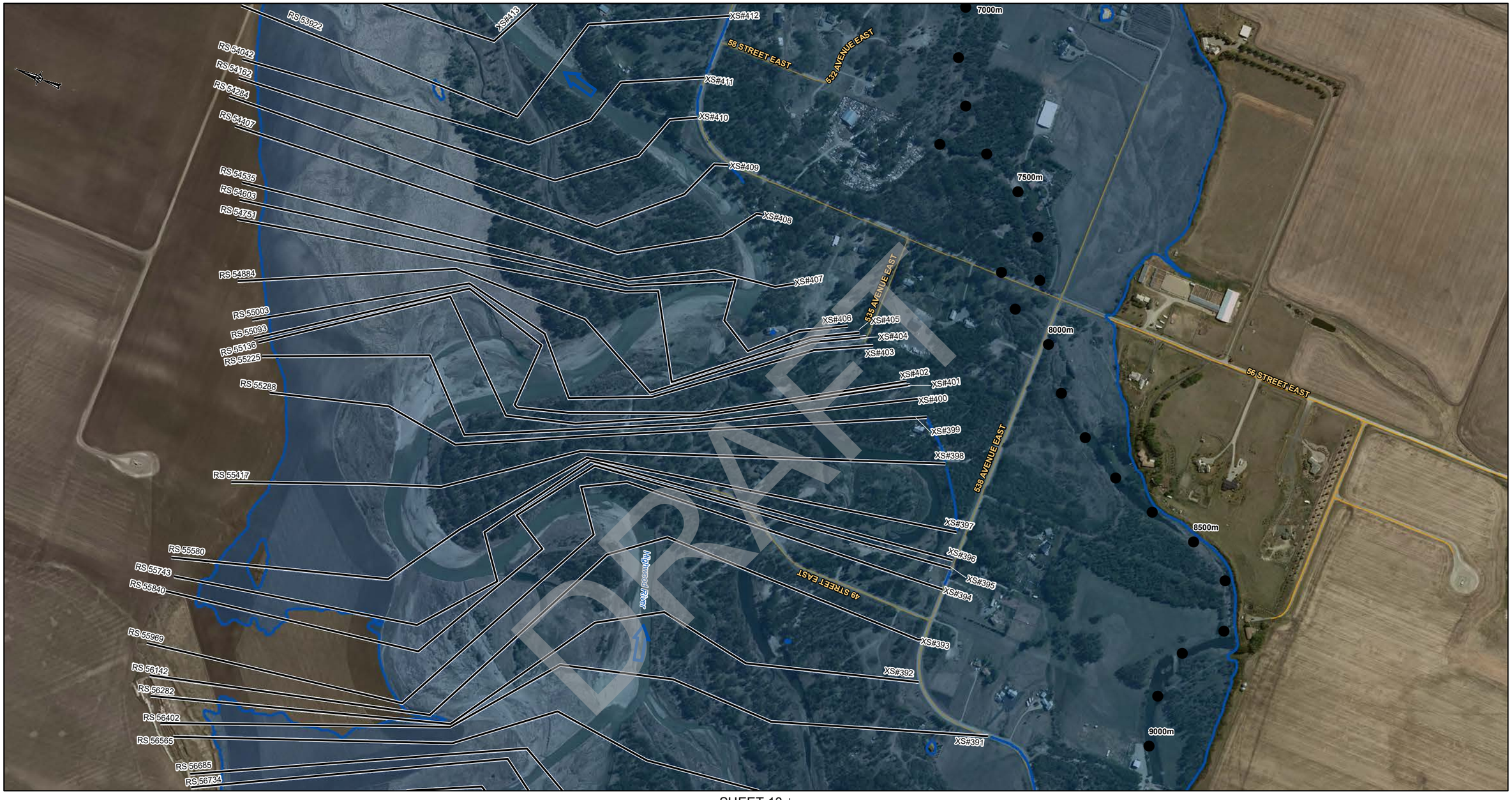
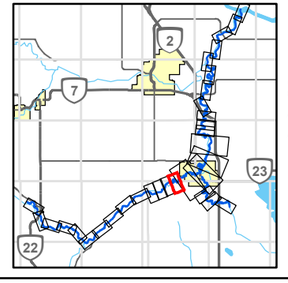
Classification: Public

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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APPROVED	HZ

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

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

25mm

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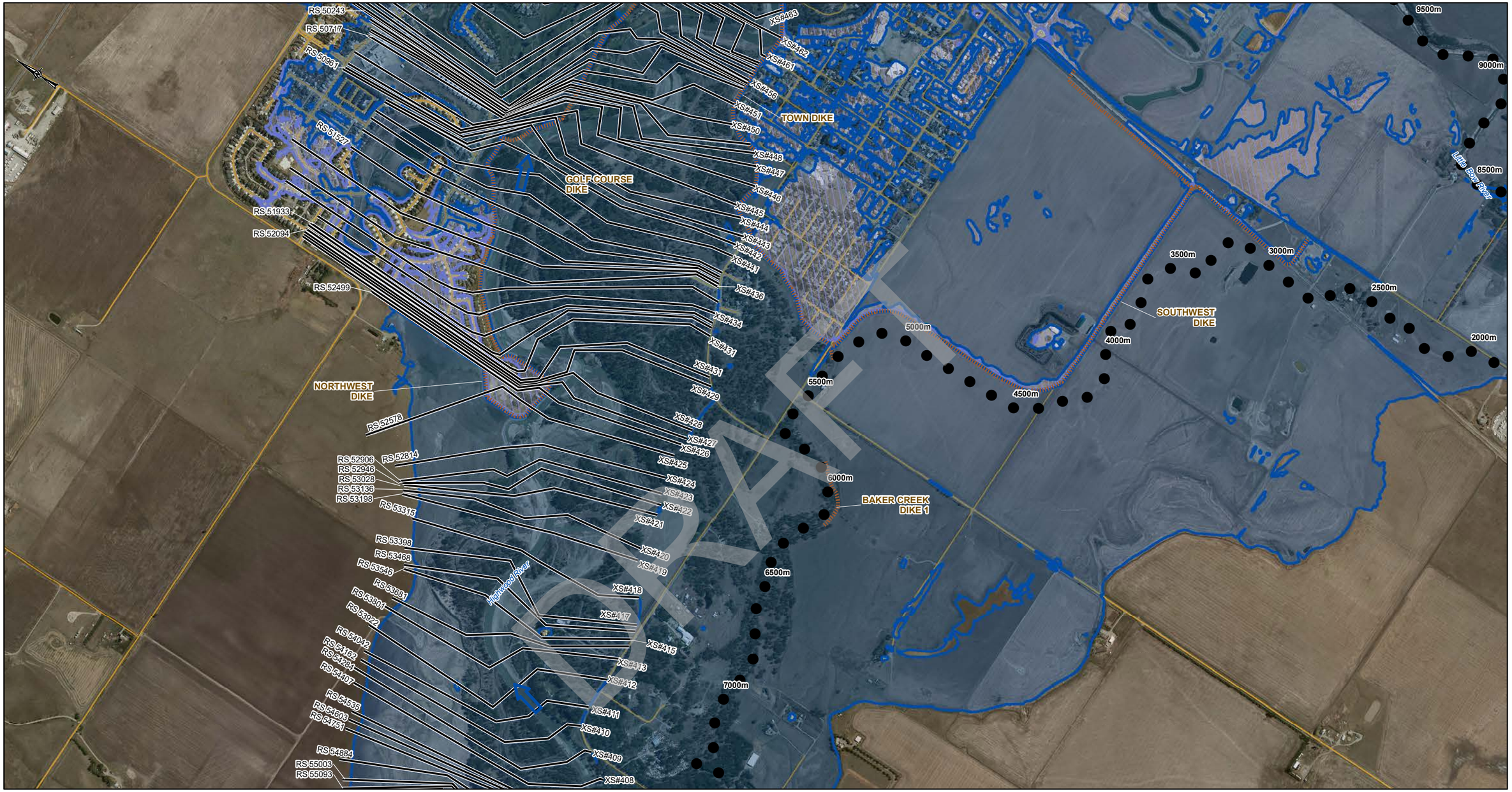
Classification: Public

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

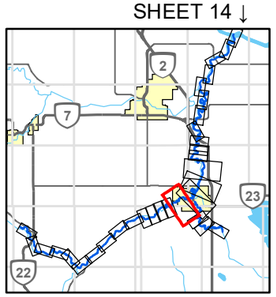
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 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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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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

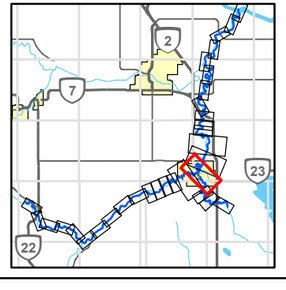
- CULVERT
- WEIR
- BRIDGE

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



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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 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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25mm

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Classification: Public

SHEET 18 ↑


RS 40551
RS 40792
RS 40814
RS 41084
RS 41274
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RS 41635
RS 41751
RS 41873
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RS 42224
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RS 42701
RS 42817
RS 42953
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RS 43617
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RS 48772
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RS 49011
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RS 51766
RS

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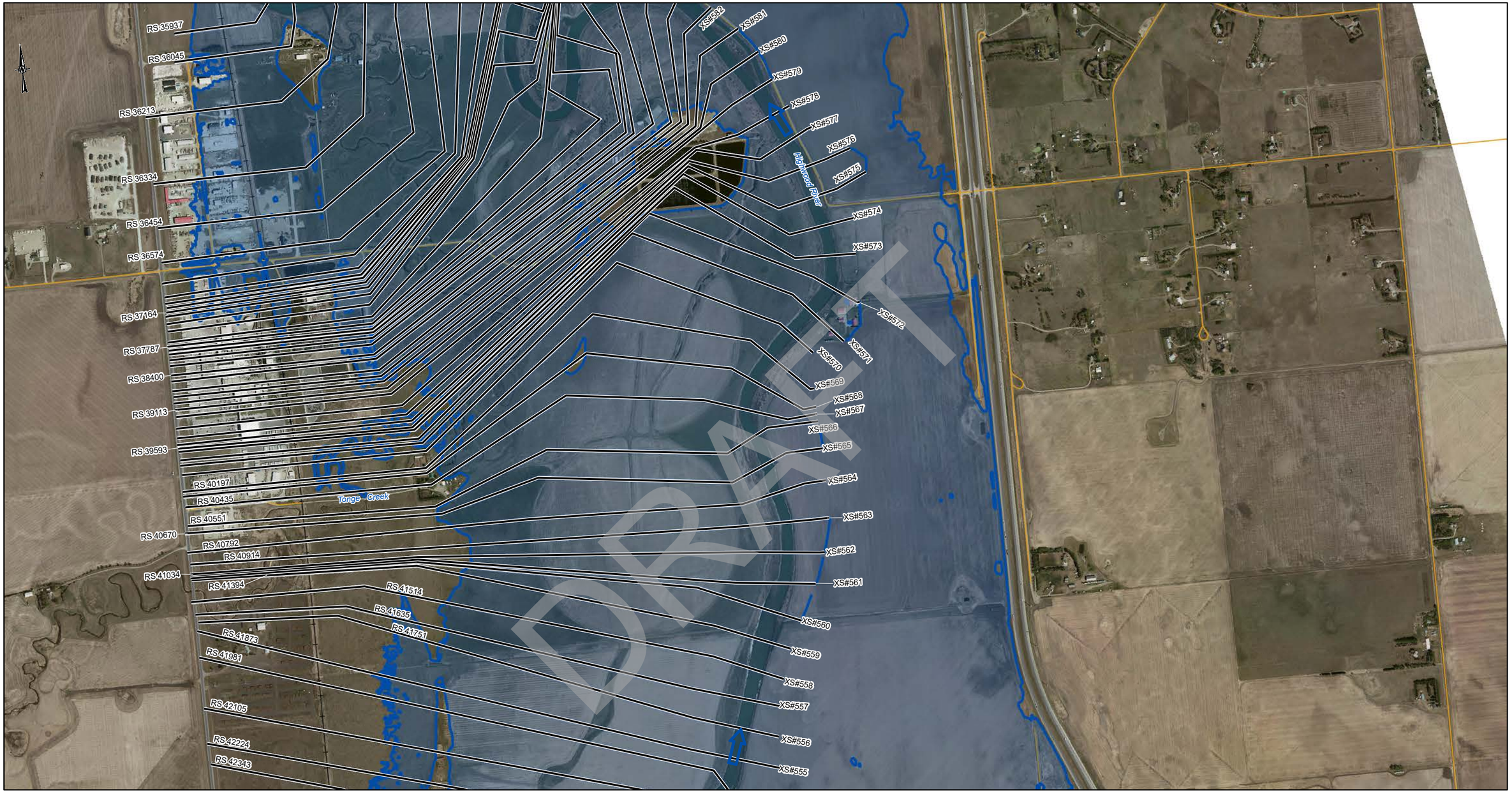


LEGEND

- 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

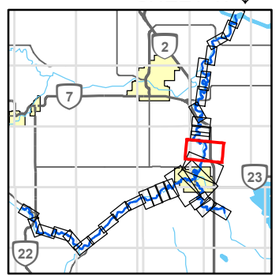
350-YEAR FLOOD INUNDATION EXTENT

- 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 17 ↓



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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
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

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Classification: Public

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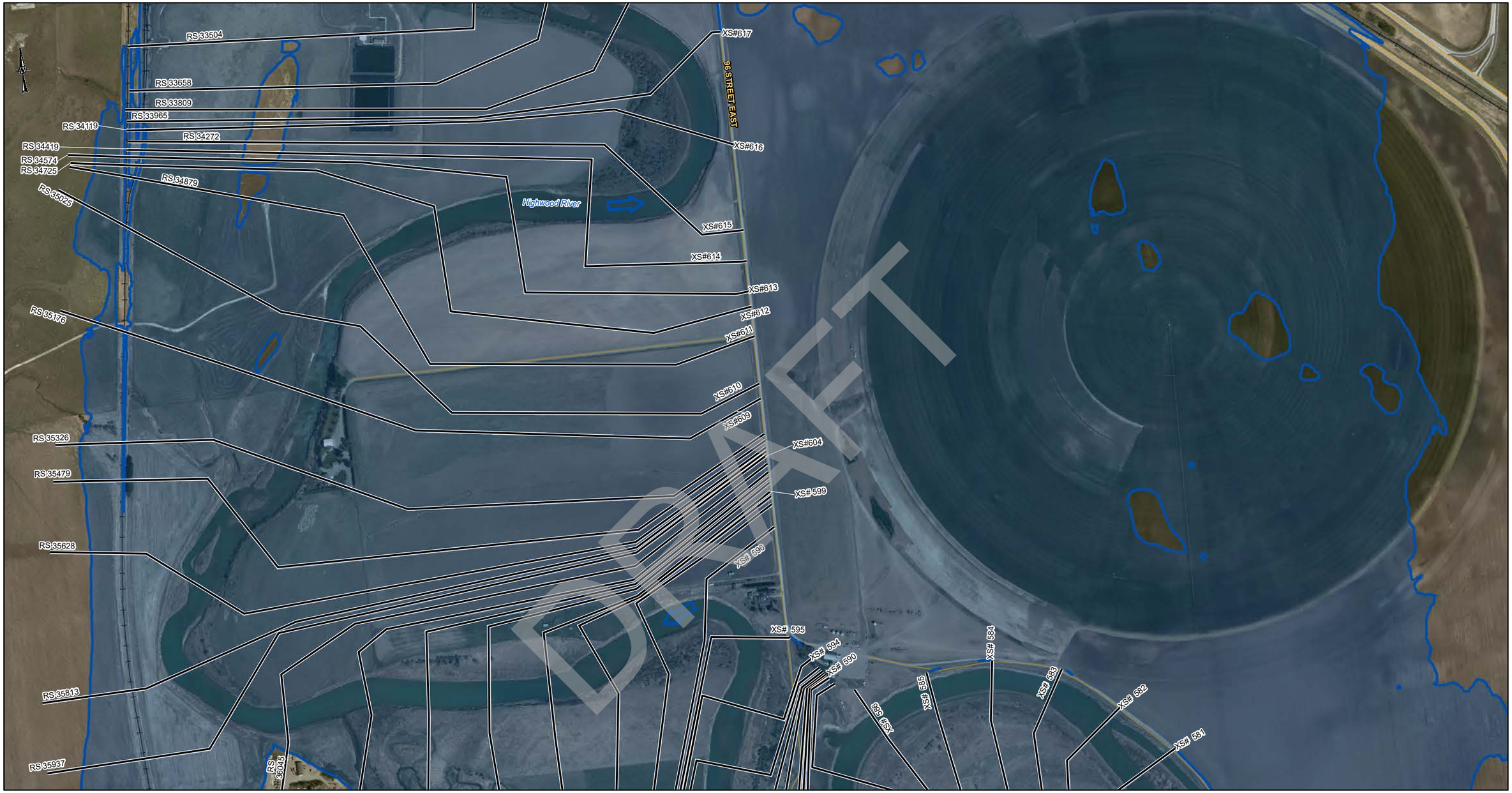


DRAFT

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

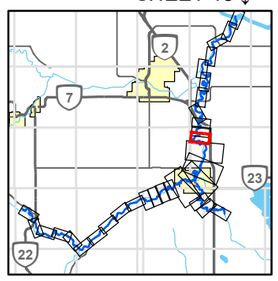
350-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 2293 M^3/S

SHEET 18 ↓



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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 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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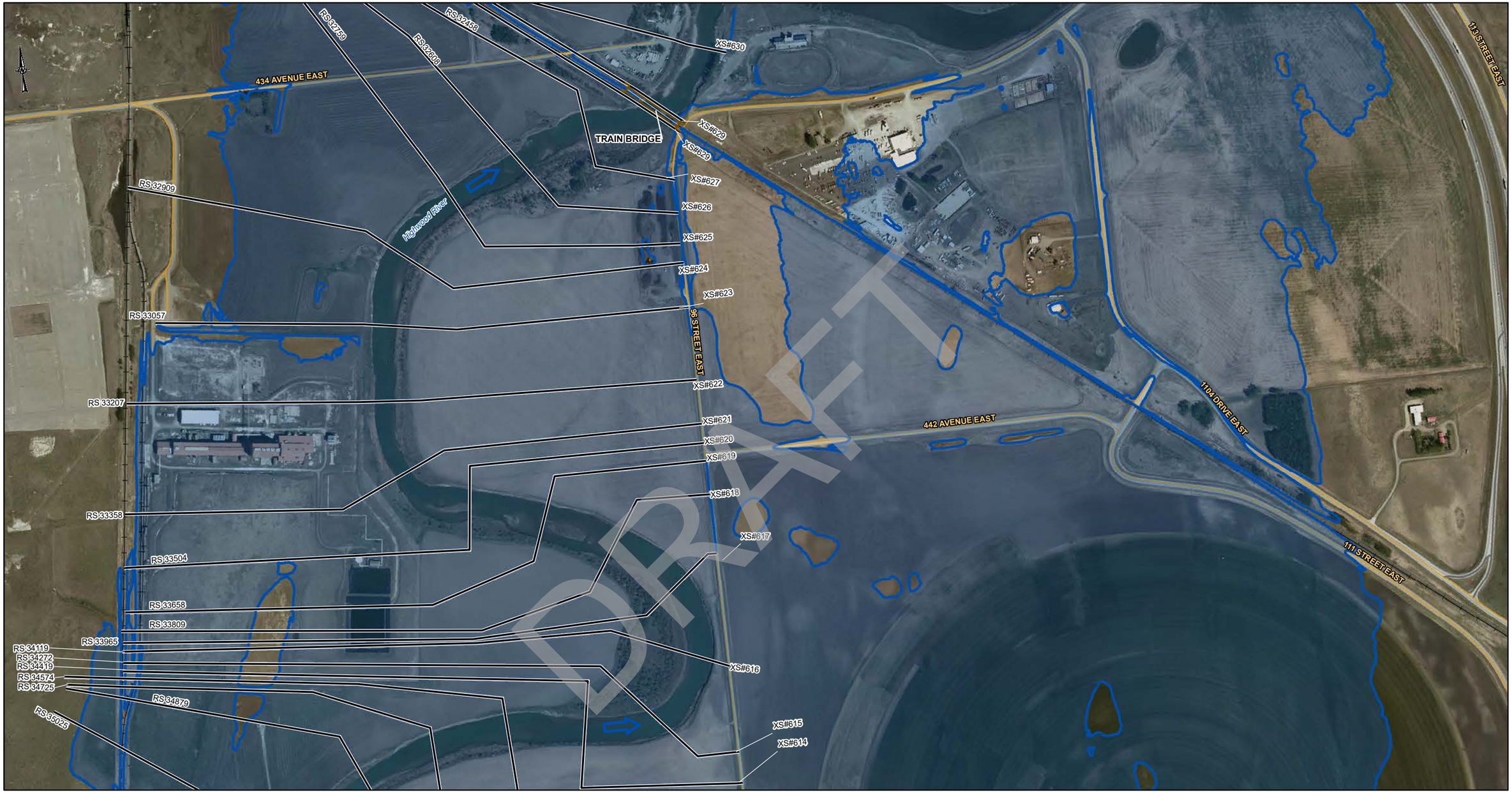
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350yr-Inundation_Rev0.mxd

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

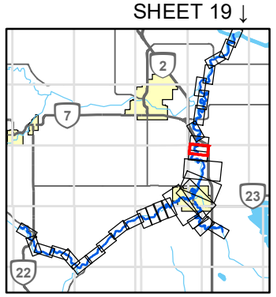
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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

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25mm

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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

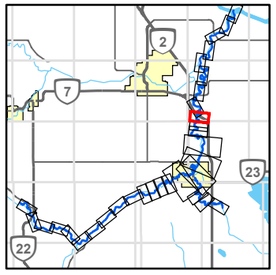
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 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\Production\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-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

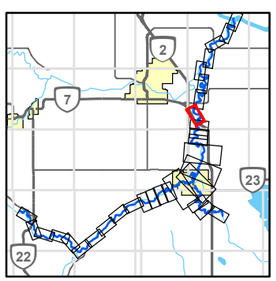
- CULVERT
- WEIR
- BRIDGE

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



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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

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 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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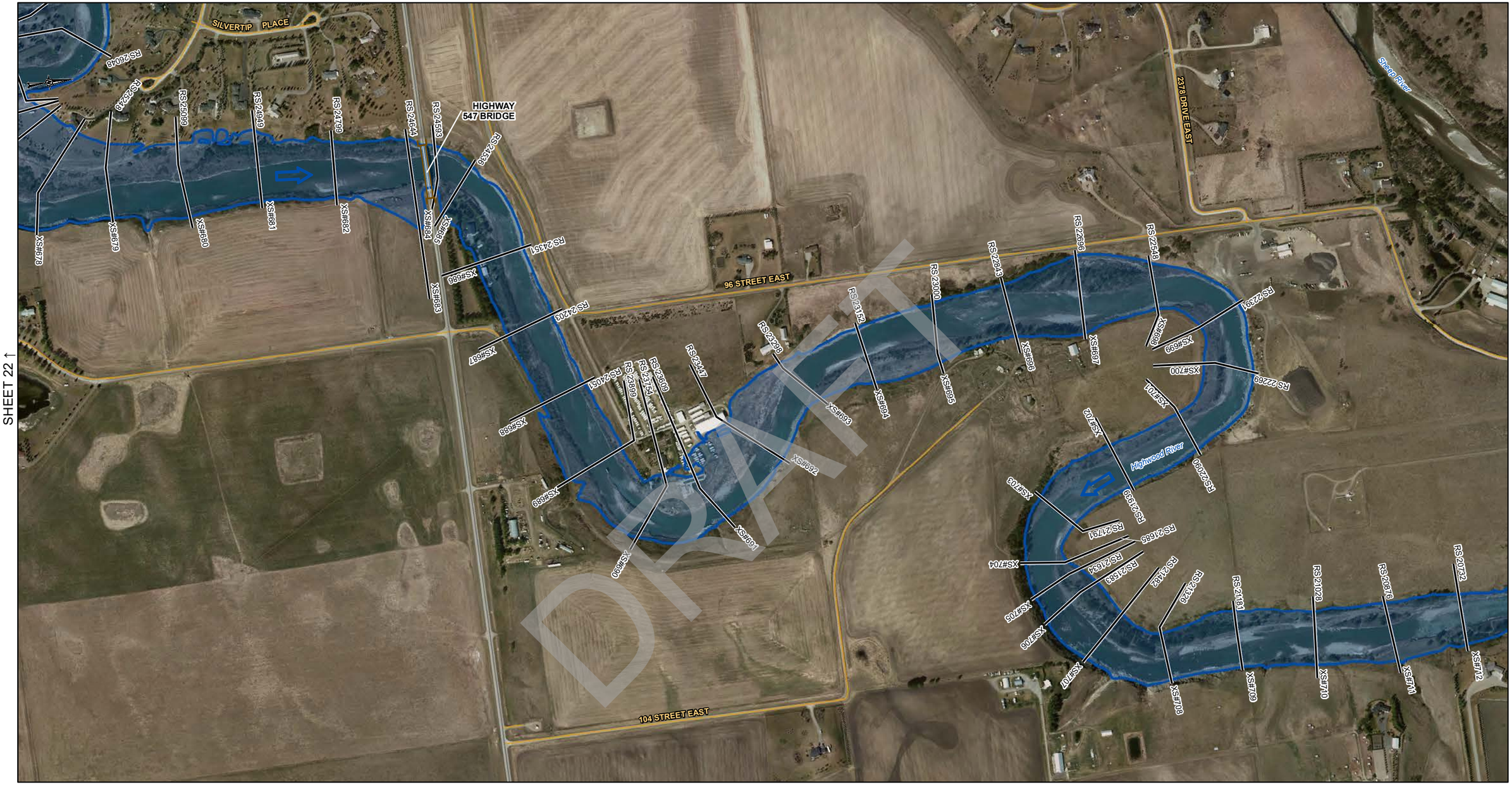
Classification: Public



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

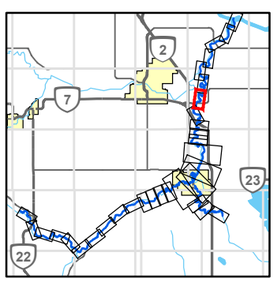
- CULVERT
- WEIR
- BRIDGE

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



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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
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

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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

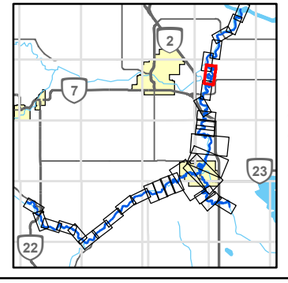
- CULVERT
- WEIR
- BRIDGE

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



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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
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

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

25mm

0

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

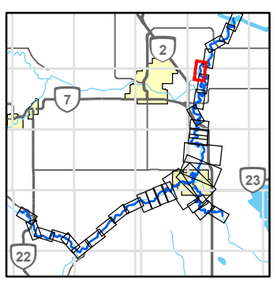
- CULVERT
- WEIR
- BRIDGE

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



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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

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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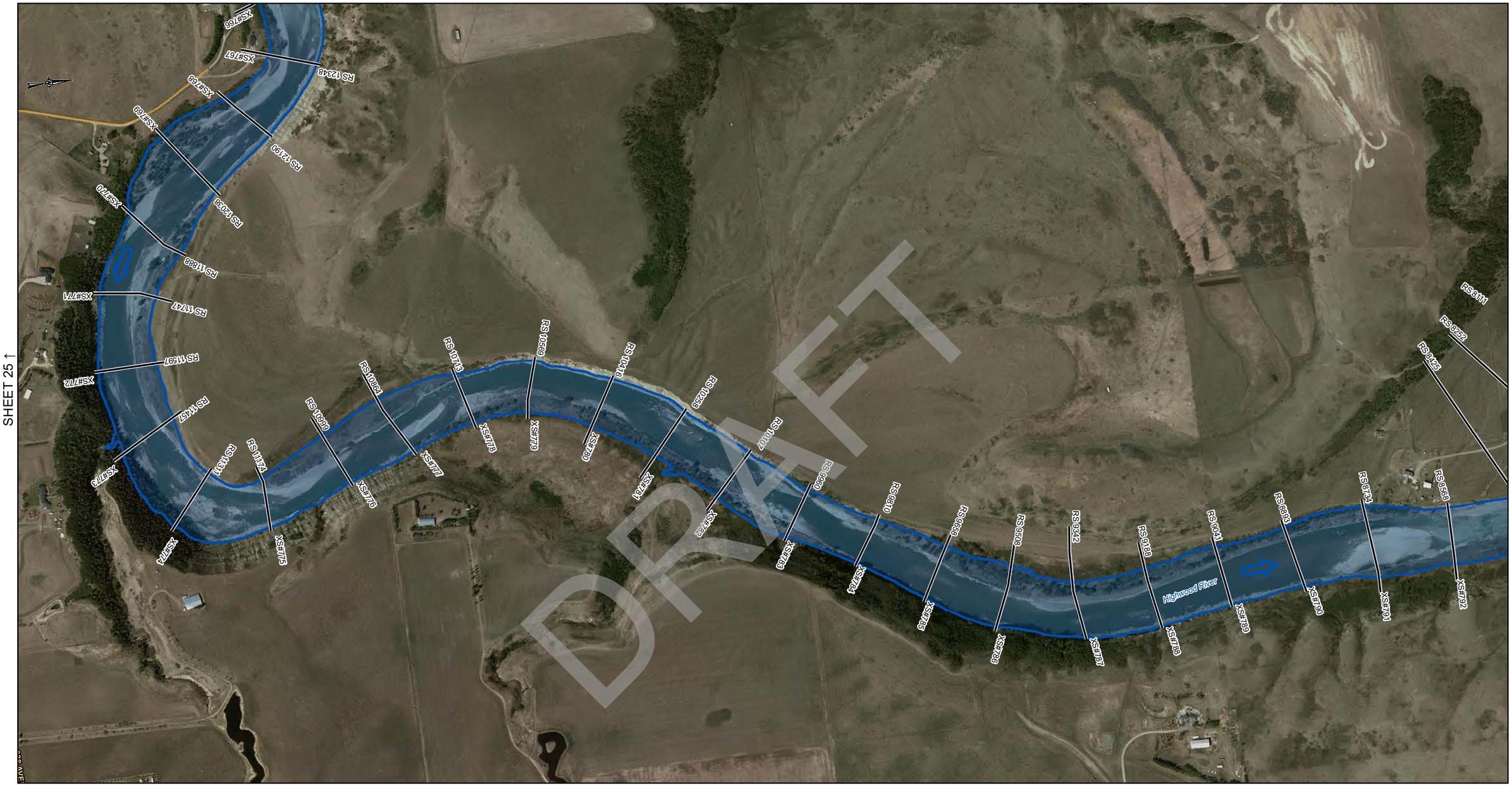
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350y-Inundation_Rev0.mxd

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

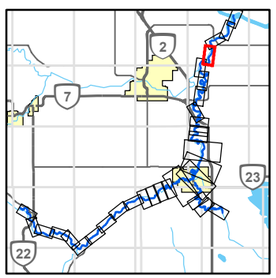
HYDRAULIC STRUCTURES

- 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



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GOLDER
MEMBER OF WSP

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DESIGNED	PT
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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 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
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

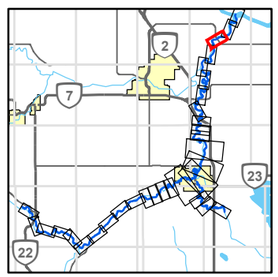
- CULVERT
- WEIR
- BRIDGE

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



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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

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Production\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

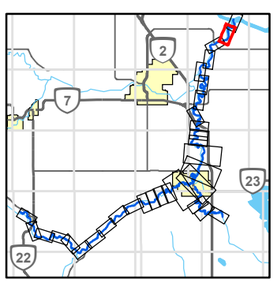
- CULVERT
- WEIR
- BRIDGE

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

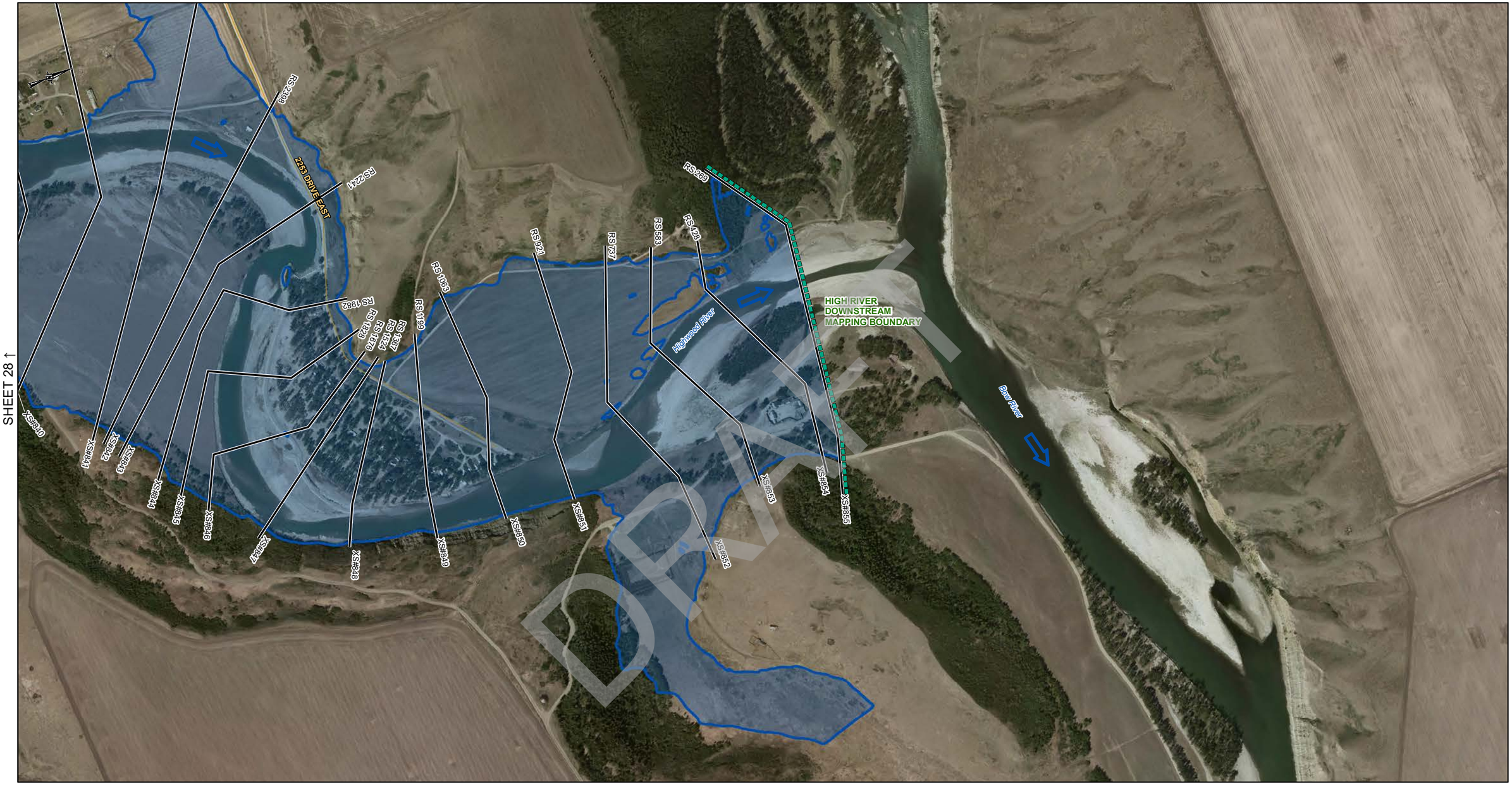
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0350y-Inundation_Rev0.mxd

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

25mm 0

Classification: Public

SHEET 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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

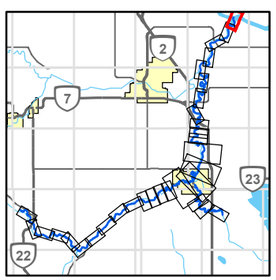
HYDRAULIC STRUCTURES

- 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



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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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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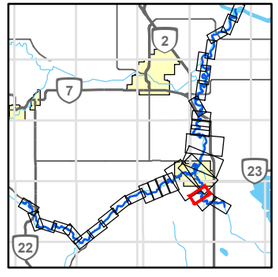
Classification: Public

SHEET15 ↑



SHEET 16 ↓

SHEET 31 ↓



LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
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- 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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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 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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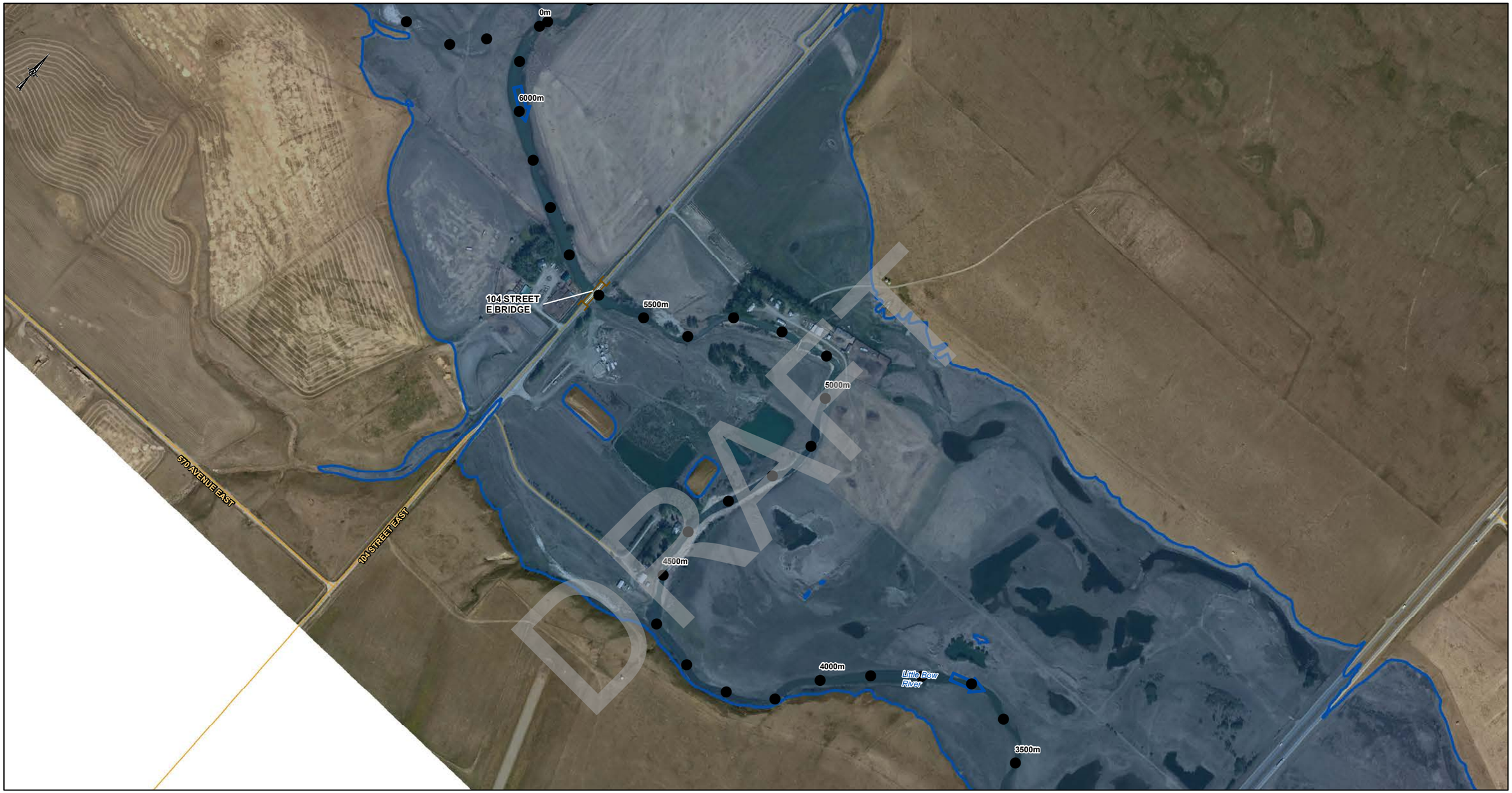
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0350y-Inundation_Rev0.mxd

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

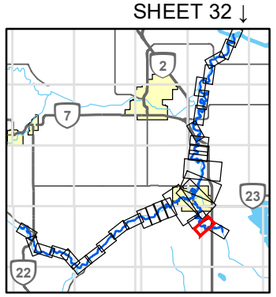
- CULVERT
- WEIR
- BRIDGE

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 ↓



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REVIEWED	JC
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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
350 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

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

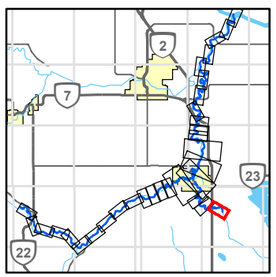
HYDRAULIC STRUCTURES

- 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



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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 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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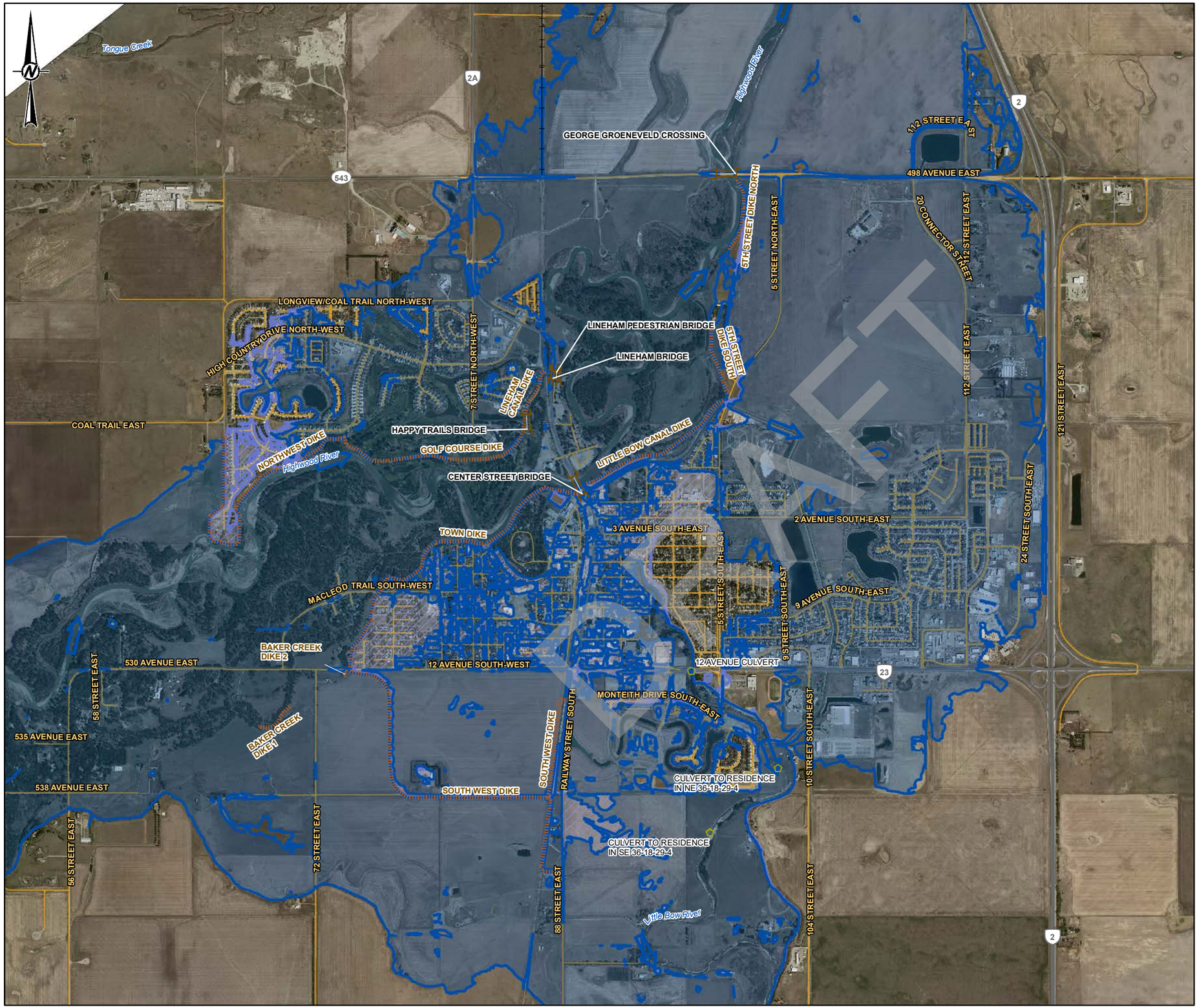
Classification: Public



LEGEND

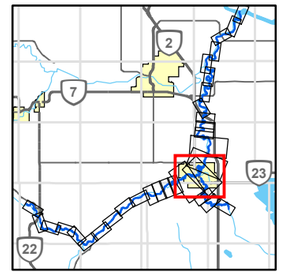
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

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



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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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Classification: Public

500-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

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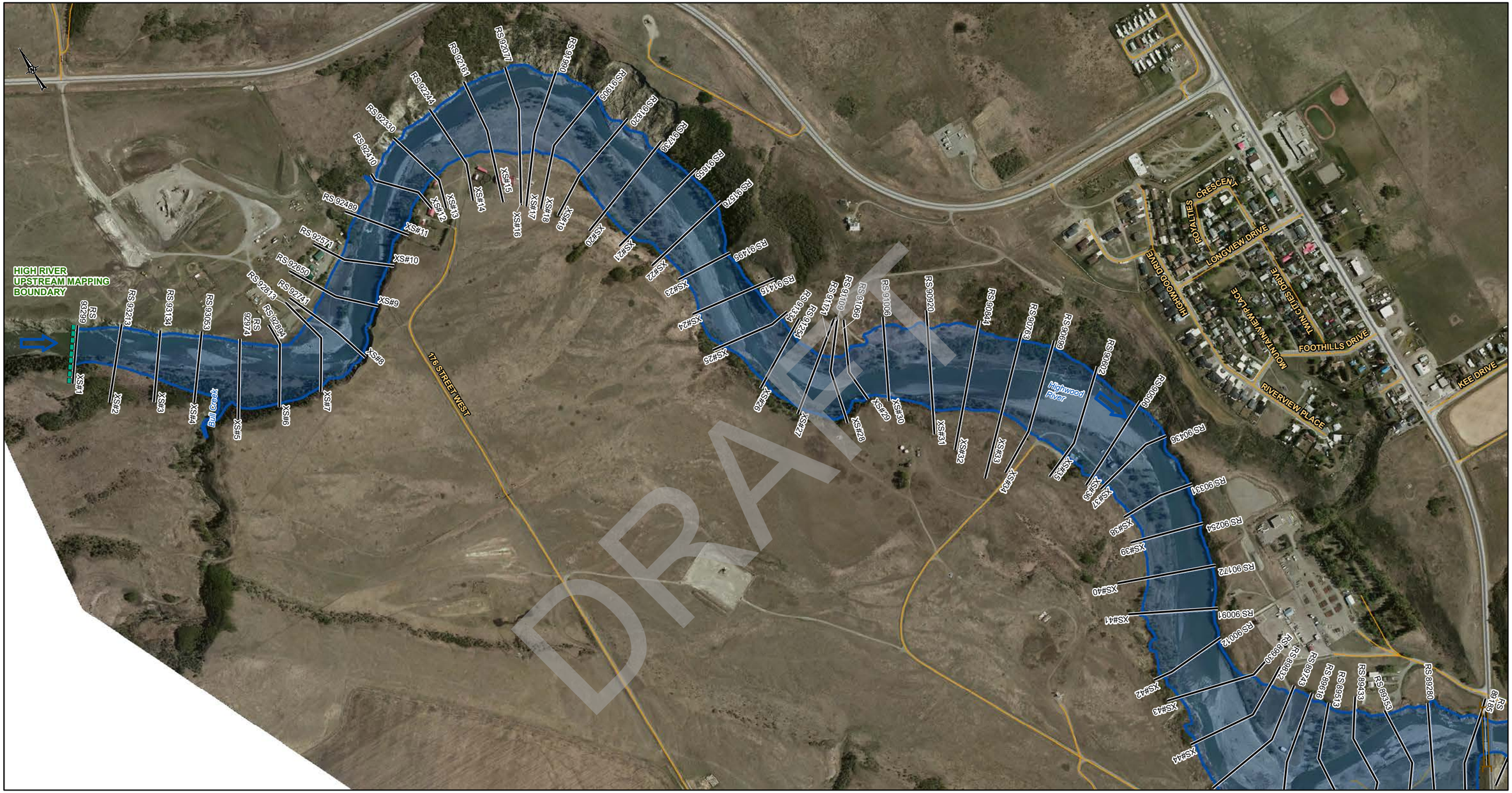


SHEET 2 ↓

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

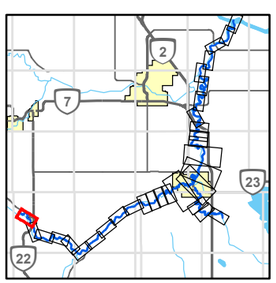
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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GOLDER
MEMBER OF WSP

YYYY-MM-DD	2022-03-31
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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 1 of 33

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25mm

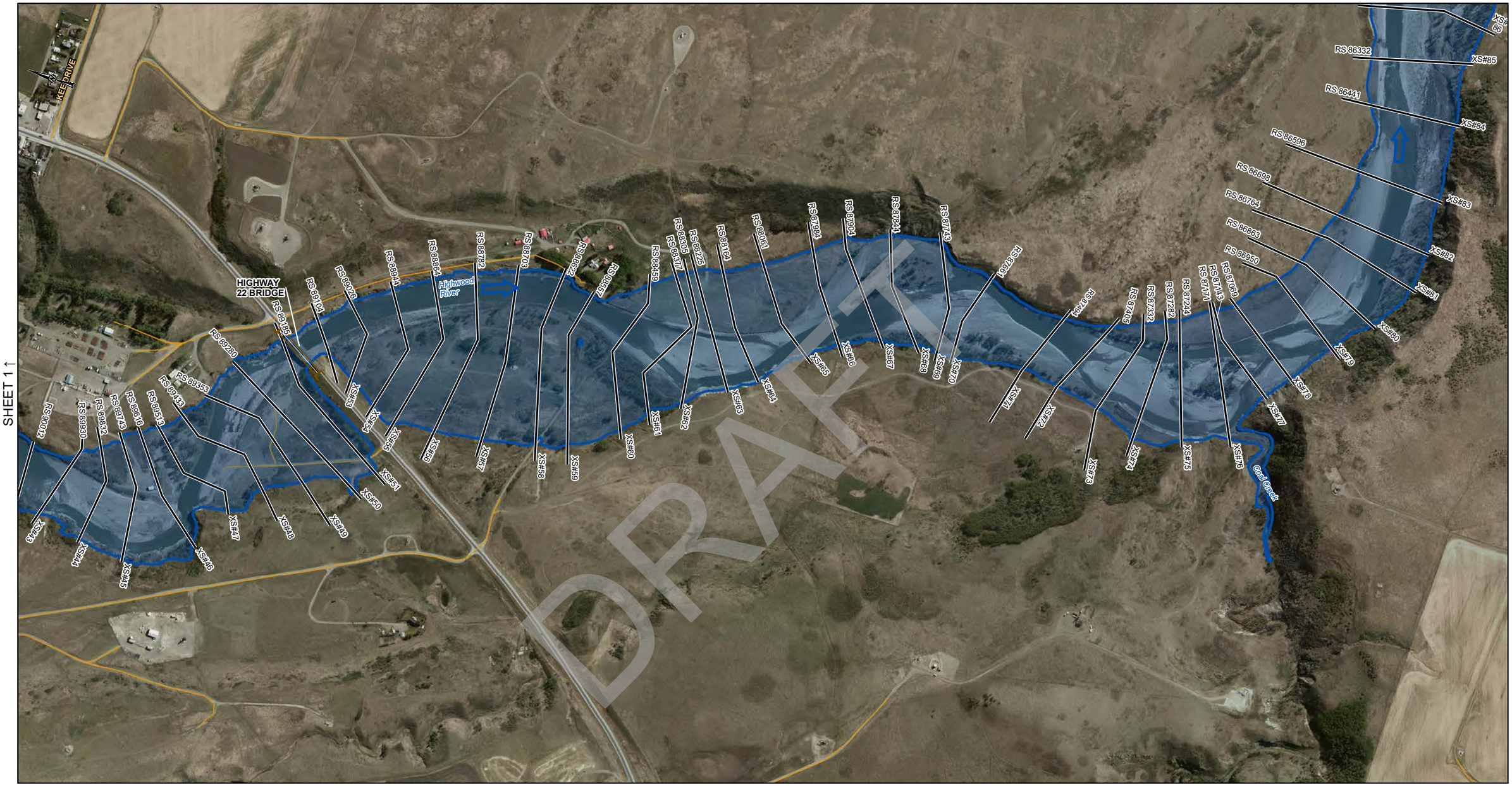
0

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 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

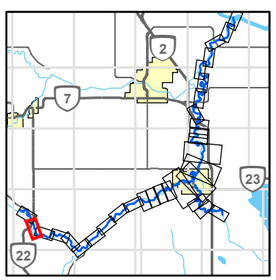
- CULVERT
- WEIR
- BRIDGE

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



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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

REFERENCE(S)

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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

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

25mm

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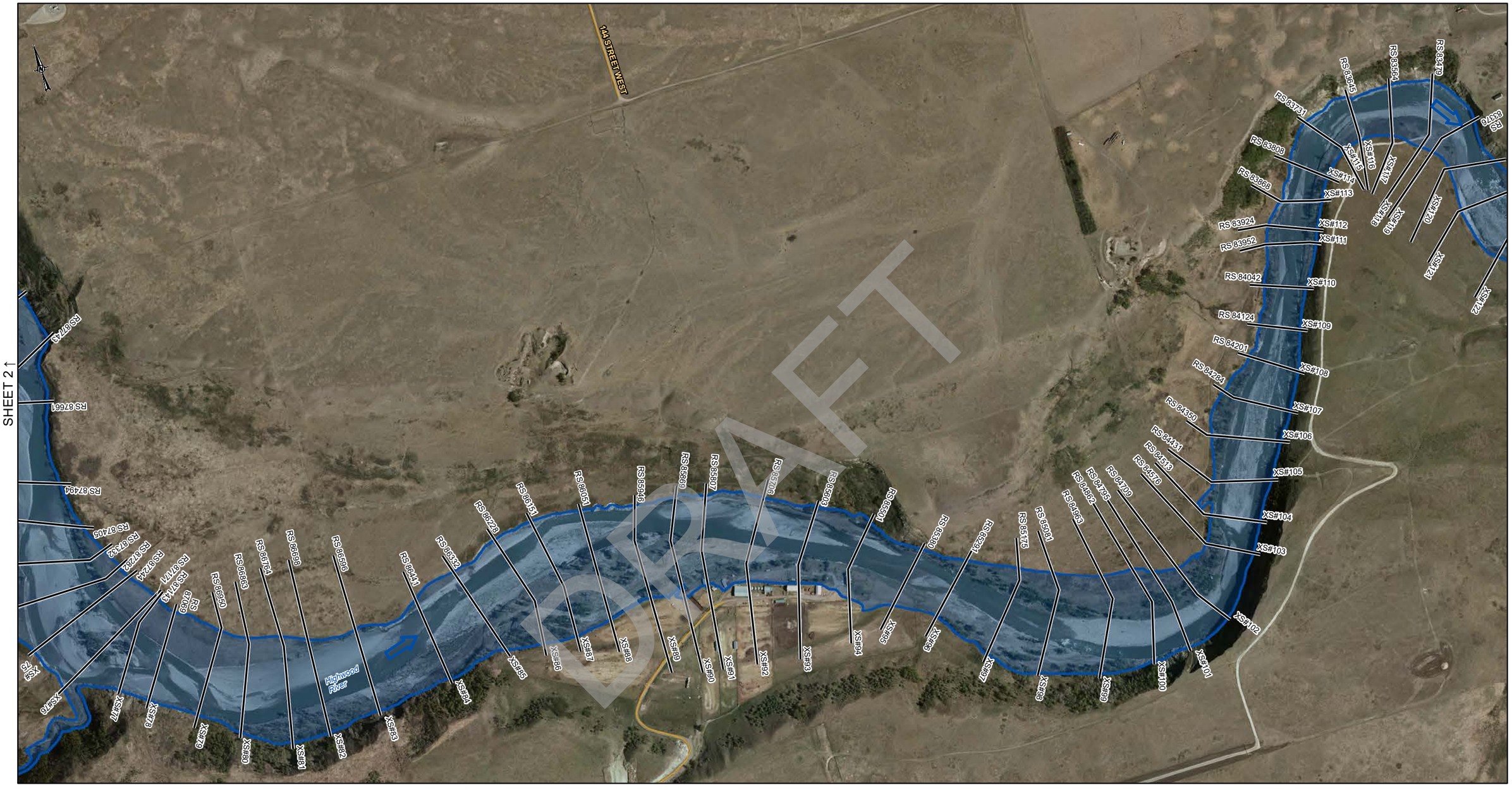
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0500y-Inundation_Rev0.mxd

Classification: Public

SHEET 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

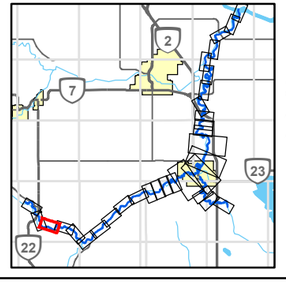
- CULVERT
- WEIR
- BRIDGE

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

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 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_0500y-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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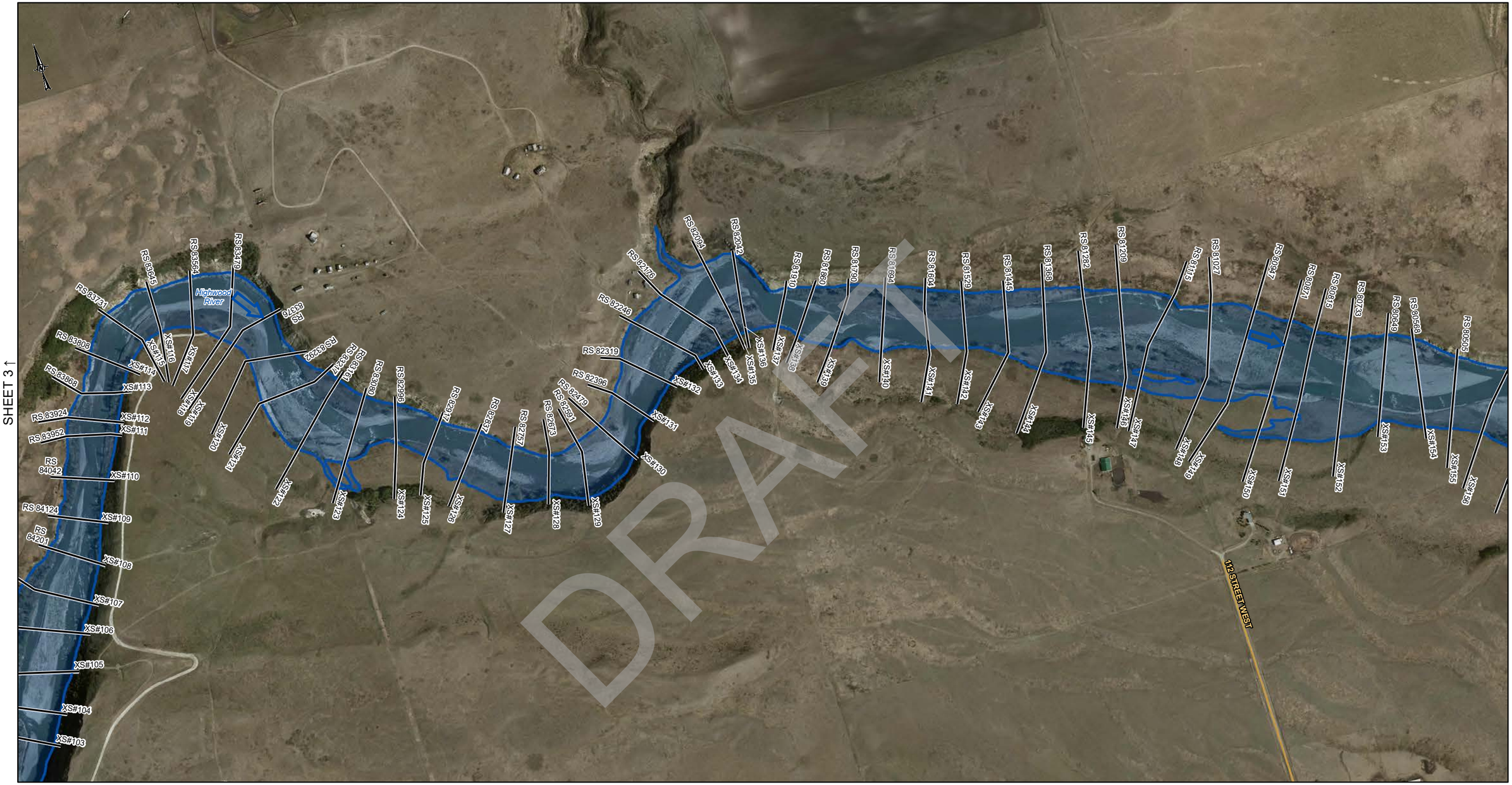
Classification: Public



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

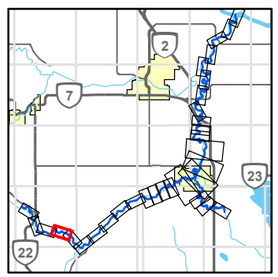
- CULVERT
- WEIR
- BRIDGE

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



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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 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 ↓



LEGEND

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

HYDRAULIC STRUCTURES

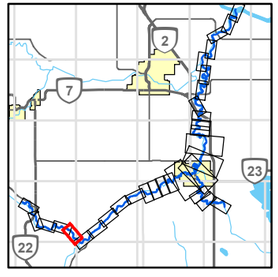
- CULVERT
- WEIR
- BRIDGE

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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
500 YEAR INUNDATION EXTENT

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

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25mm

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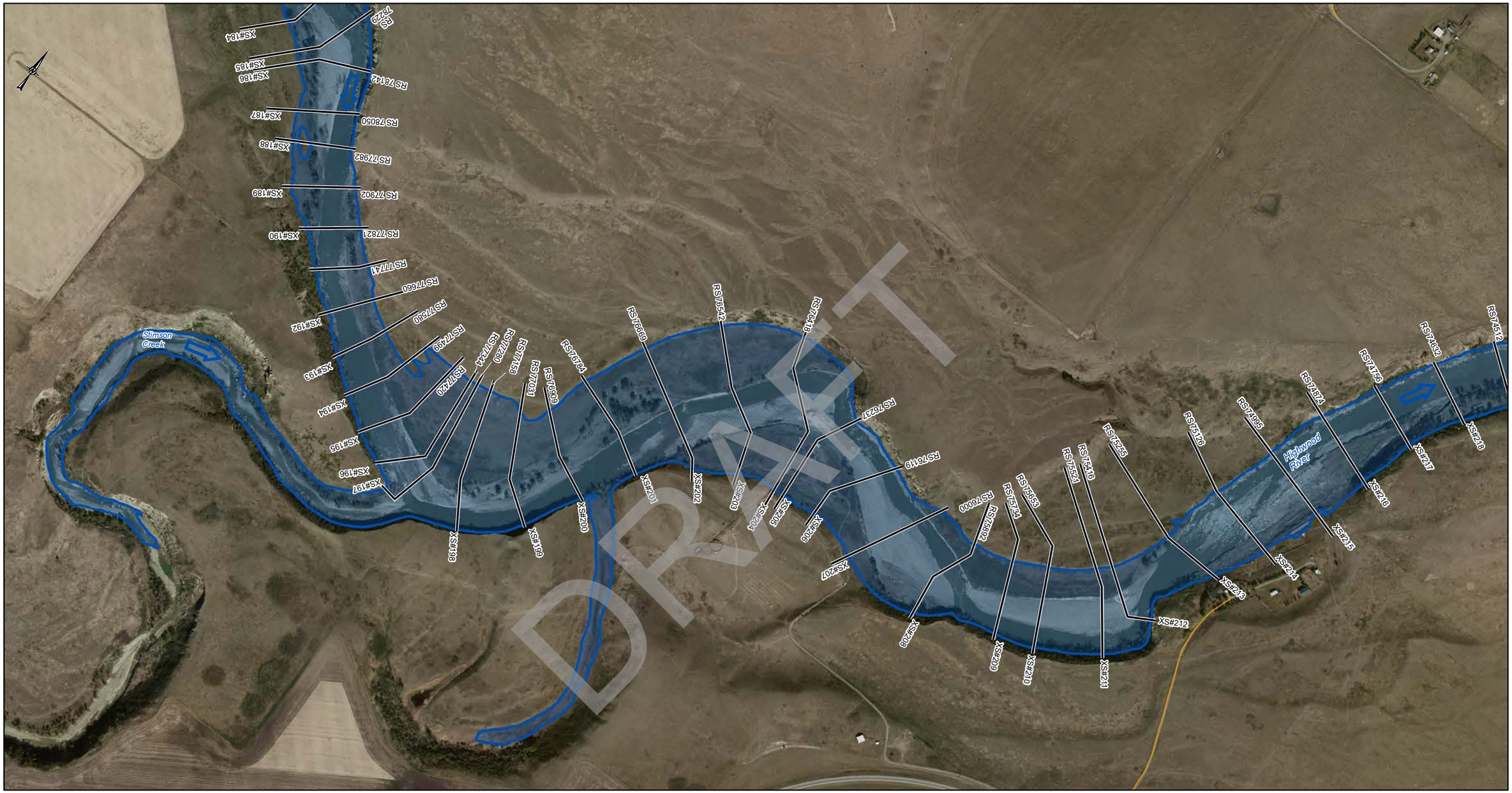
Classification: Public

SHEET 5 ↑



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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

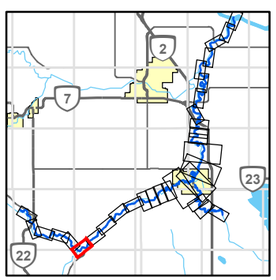
- CULVERT
- WEIR
- BRIDGE

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



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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 6 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

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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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

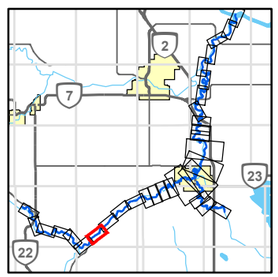
- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 4380 M^3/S



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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

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

25mm

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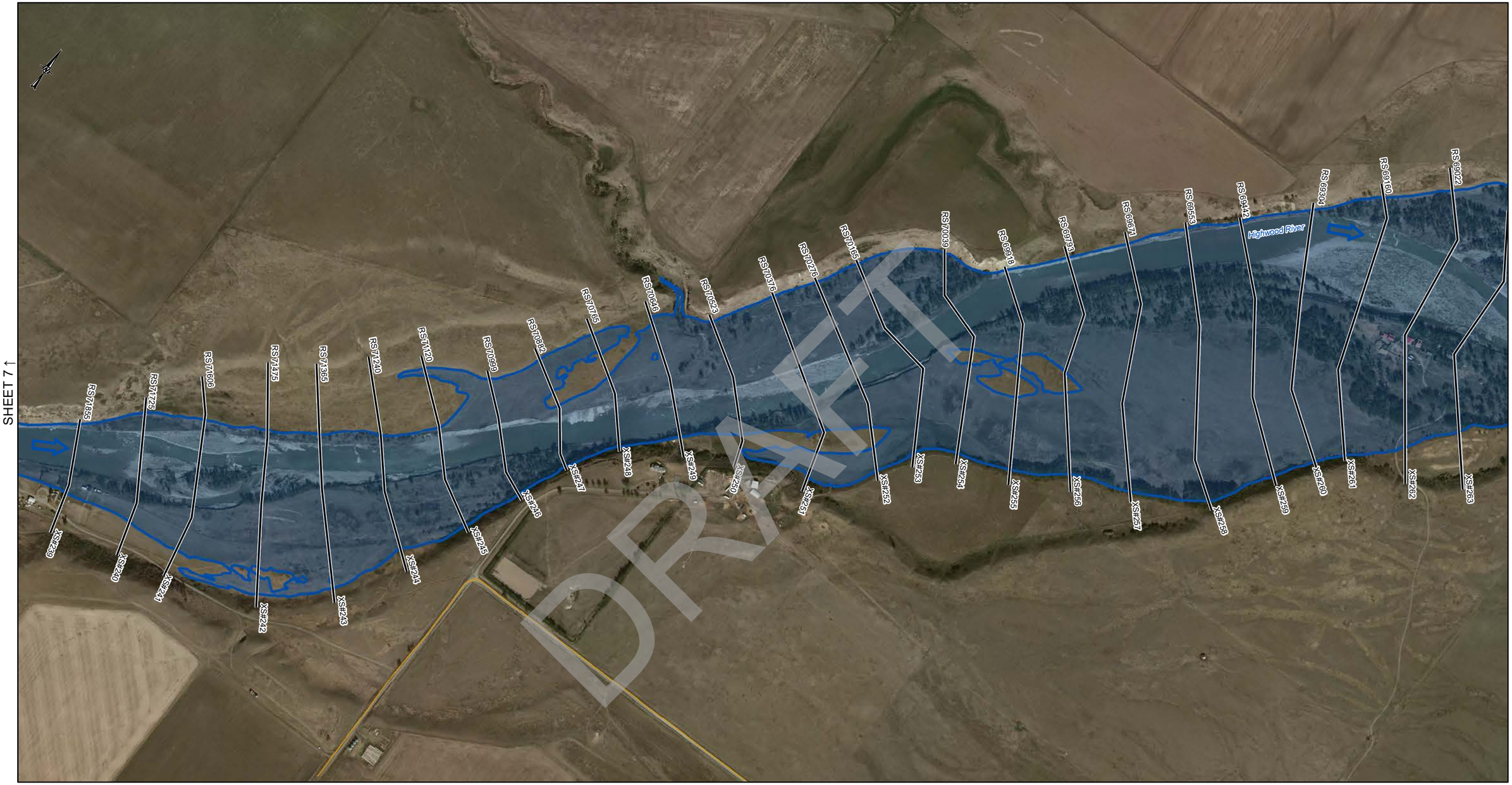
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21402576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

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

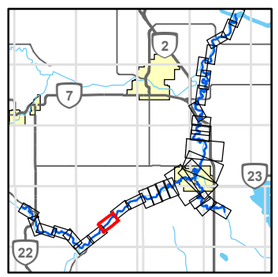
HYDRAULIC STRUCTURES

- 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 STIMSON CREEK = 4380 M^3/S



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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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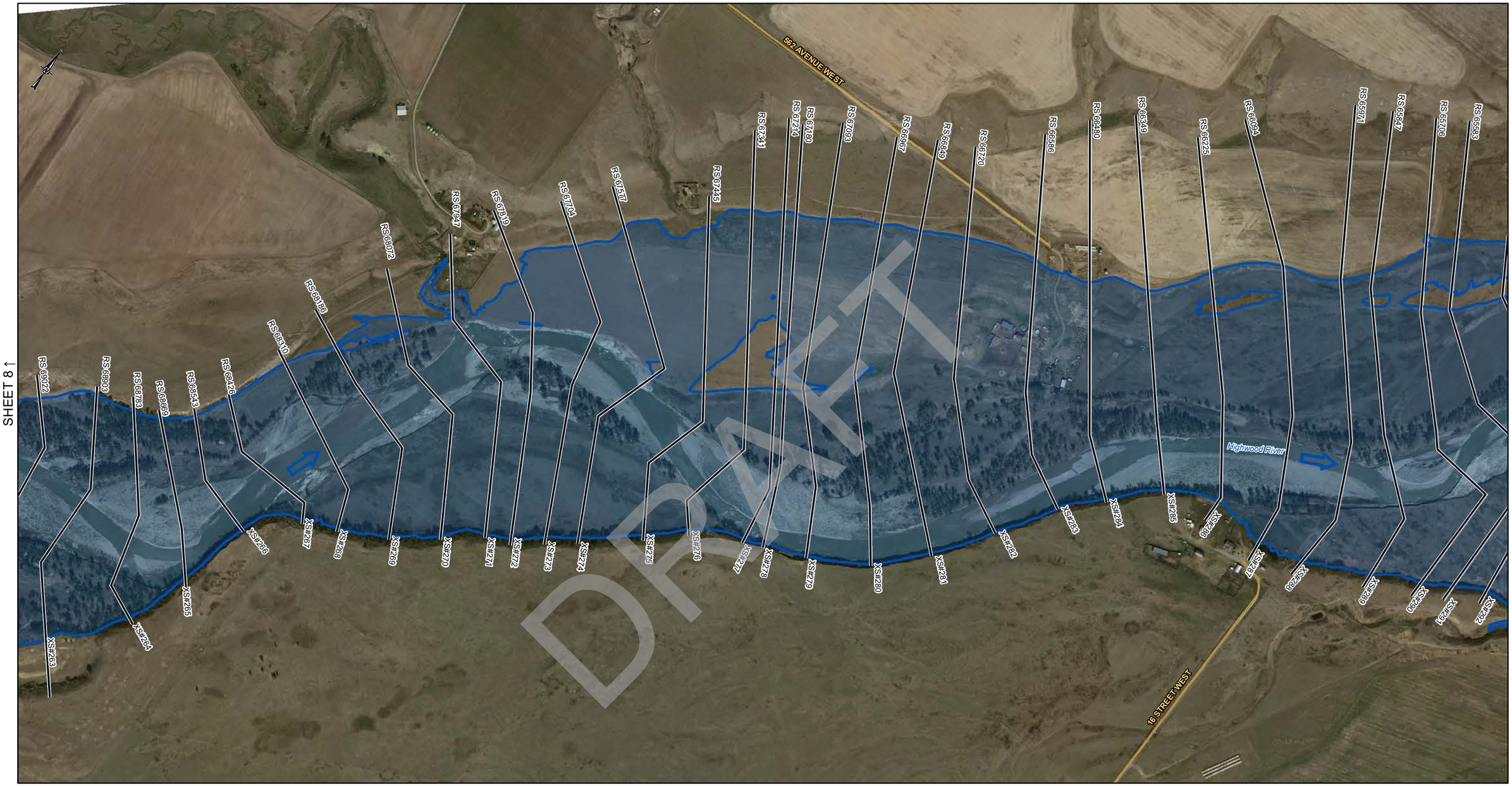
Classification: Public

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

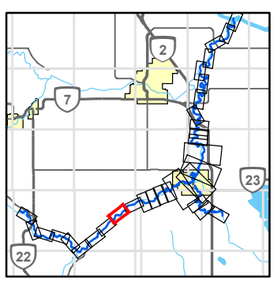
- CULVERT
- WEIR
- BRIDGE

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



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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 9 of 33

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25mm

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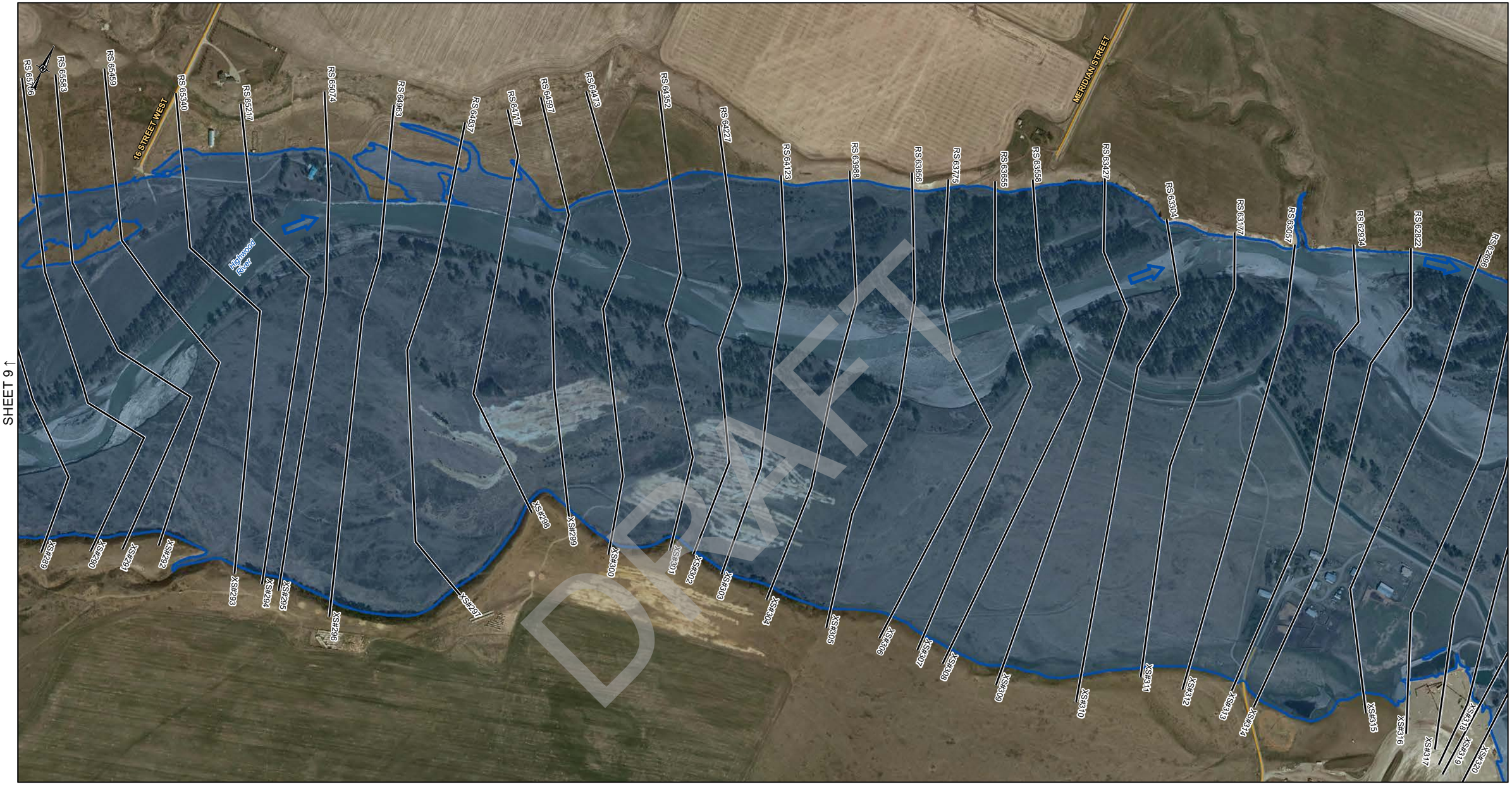
Classification: Public

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

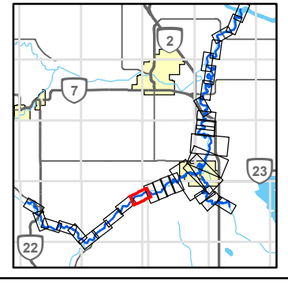
- CULVERT
- WEIR
- BRIDGE

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



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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 10 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_2500y-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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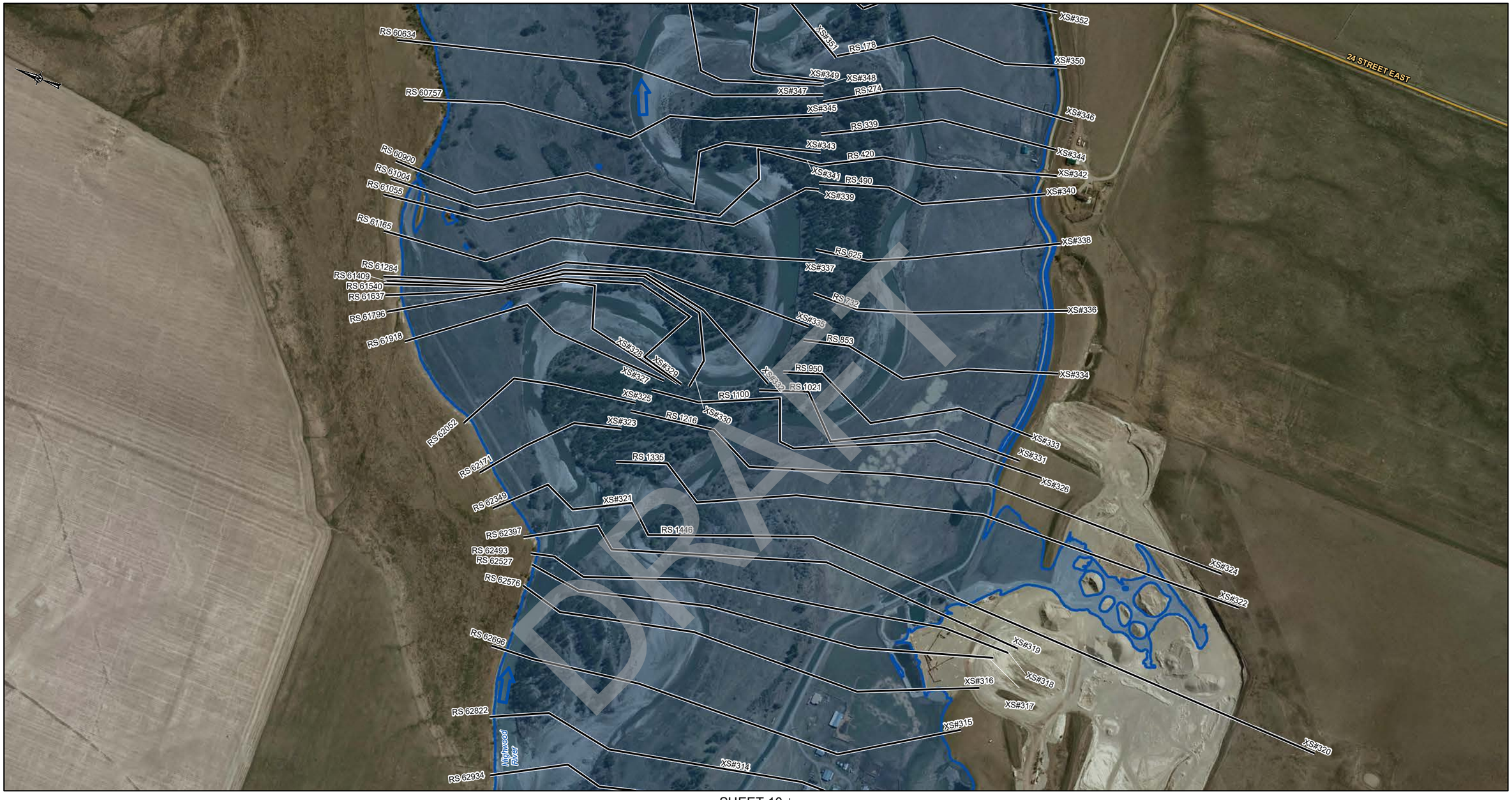
Classification: Public

SHEET 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

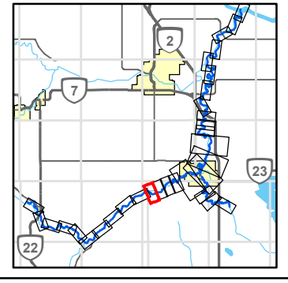
- CULVERT
- WEIR
- BRIDGE

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



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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
500 YEAR INUNDATION EXTENT

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

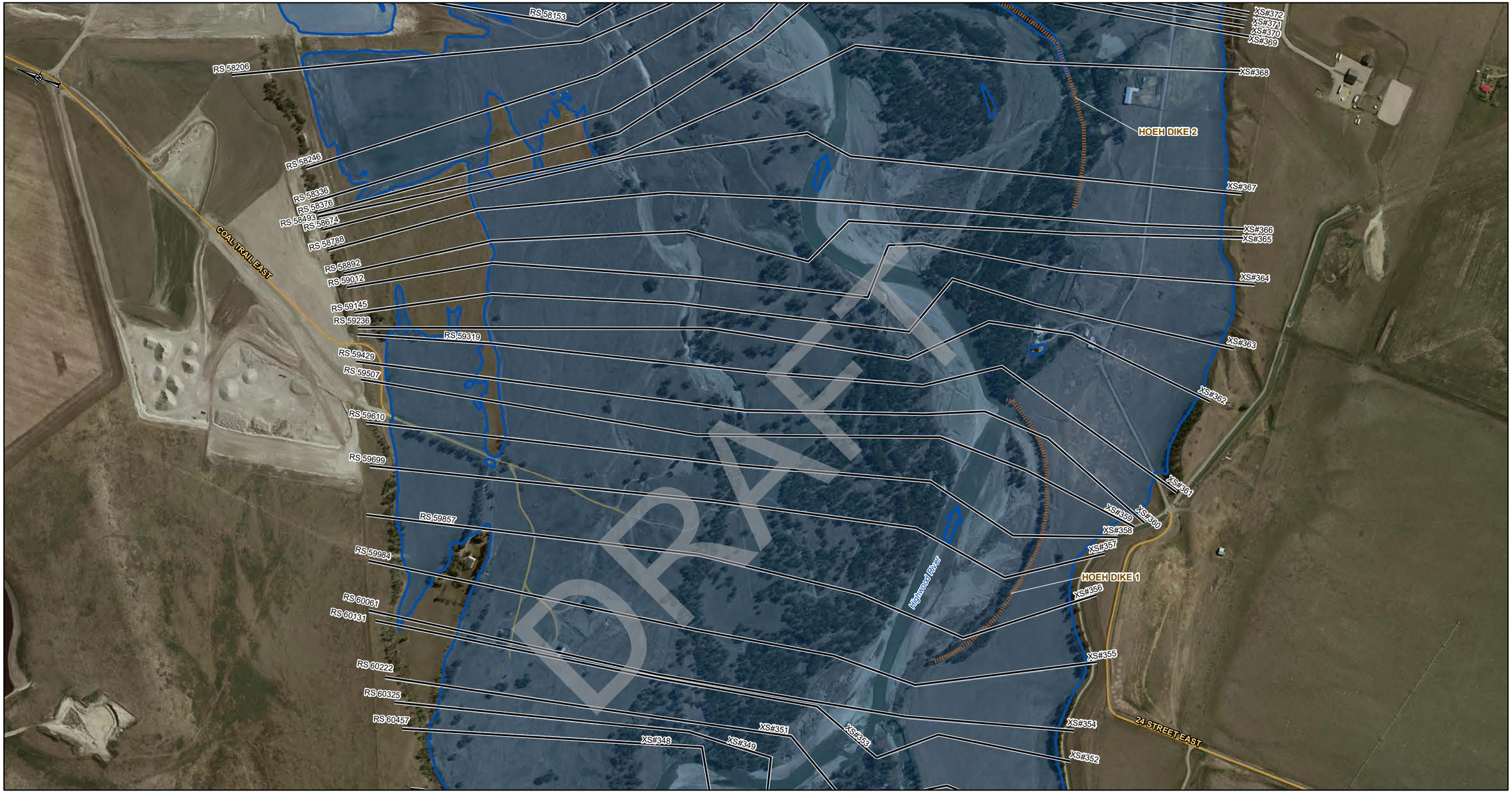
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

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

25mm

Classification: Public

SHEET 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

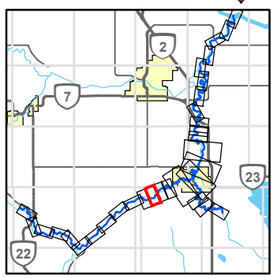
- CULVERT
- WEIR
- BRIDGE

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

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
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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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

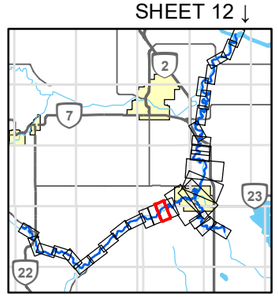
- CULVERT
- WEIR
- BRIDGE

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 ↓



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Alberta Government

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GOLDER
MEMBER OF WSP

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PREPARED	NB
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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 13 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

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

25mm

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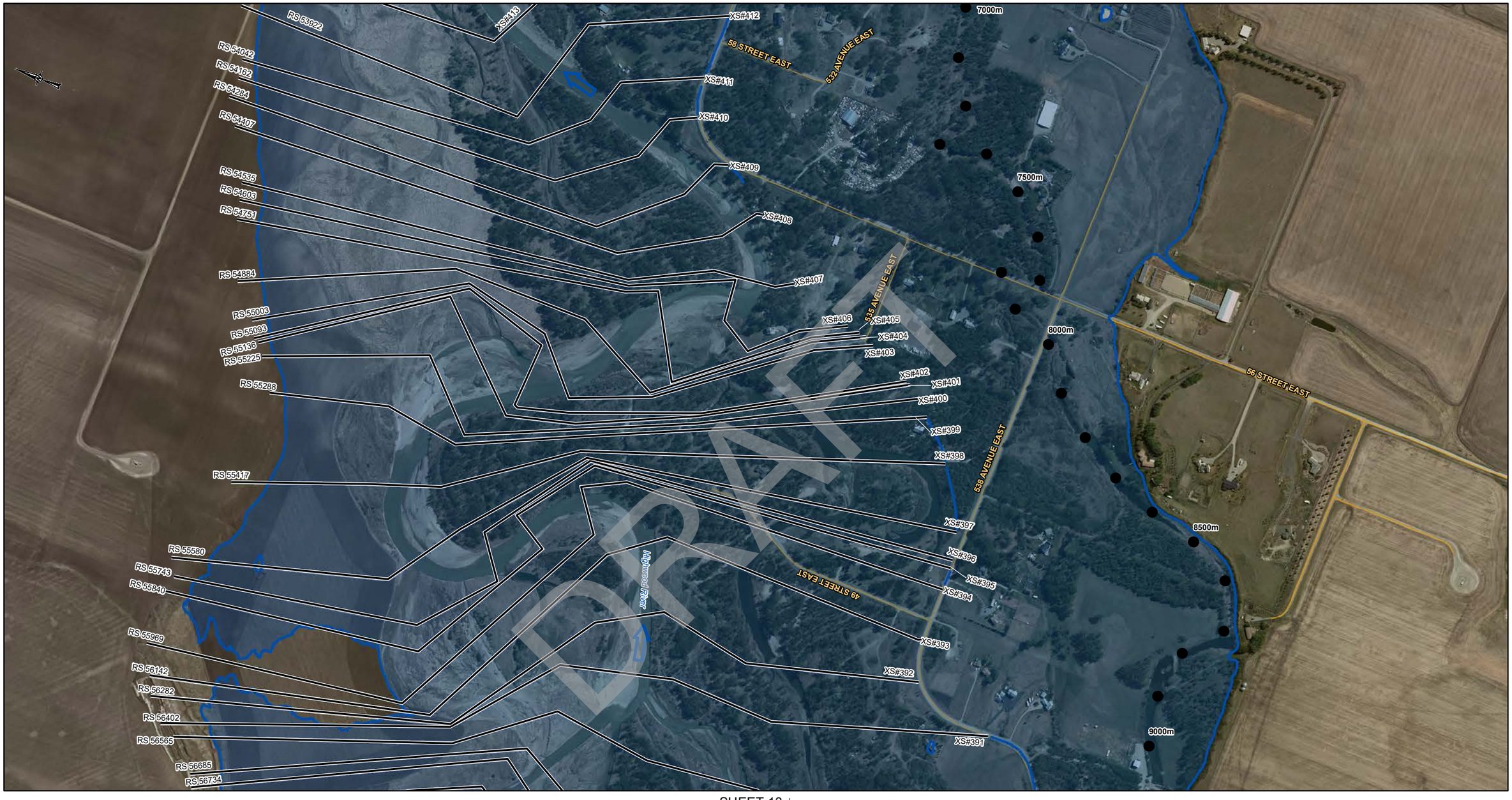
Classification: Public

SHEET 15 ↑



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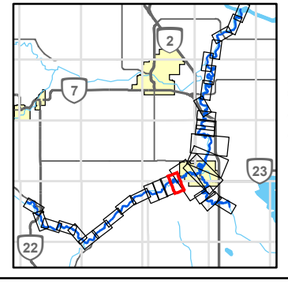

LEGEND

- 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

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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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 14 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

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

25mm

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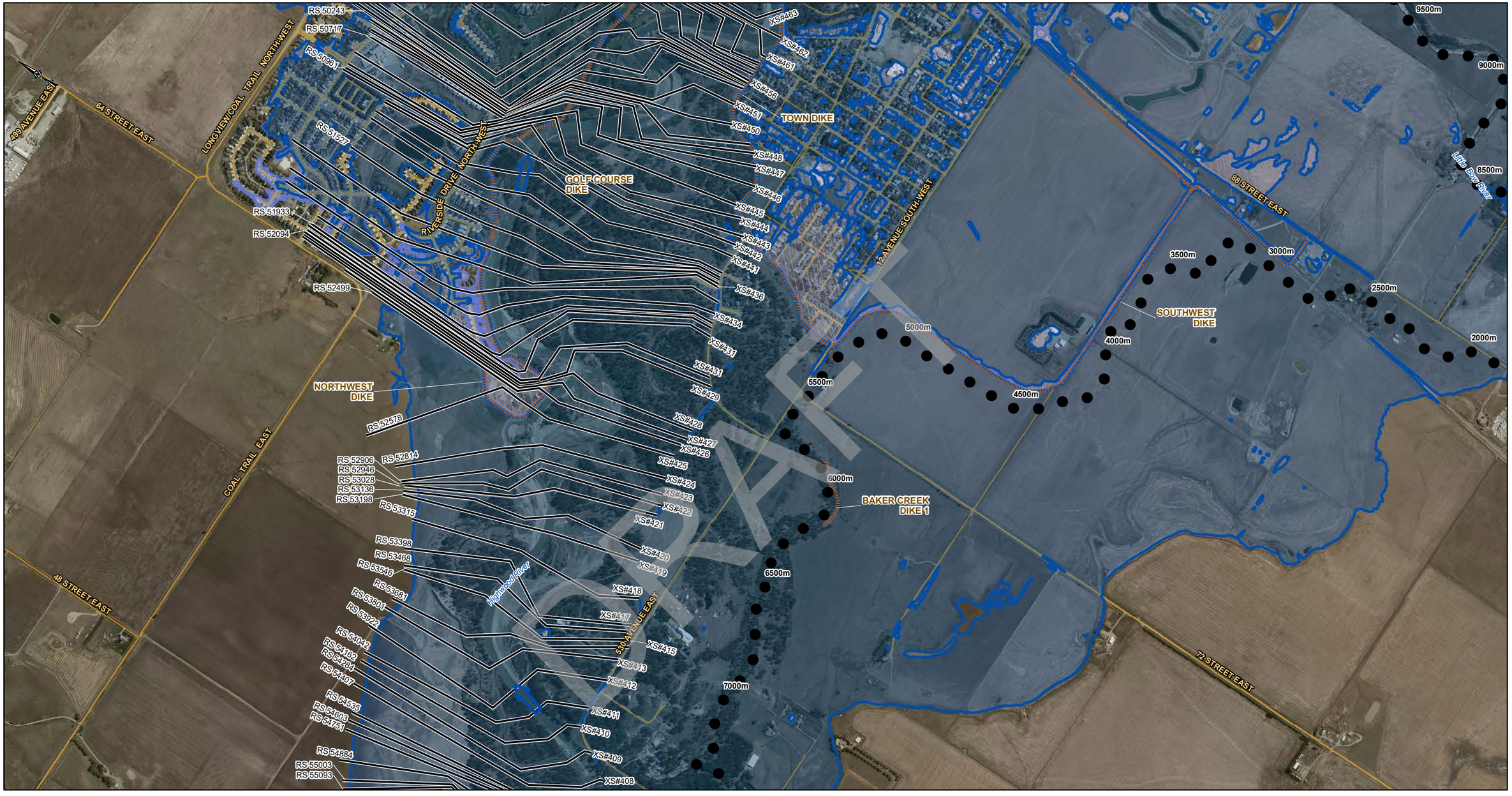
Classification: Public

SHEET 16 ↑

SHEET 30 ↓

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

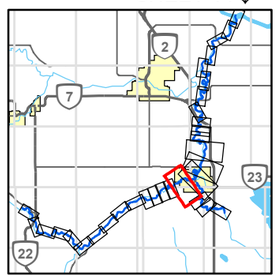
- CULVERT
- WEIR
- BRIDGE

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



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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 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

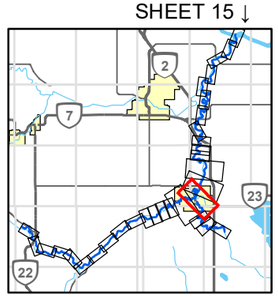
500-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21432576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

Classification: Public

SHEET 18 ↑


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RS 41635
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RS 41873
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RS 42579
RS 42701
RS 42817
RS 42953
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RS 43425
RS 43543
RS 43661
RS 43779
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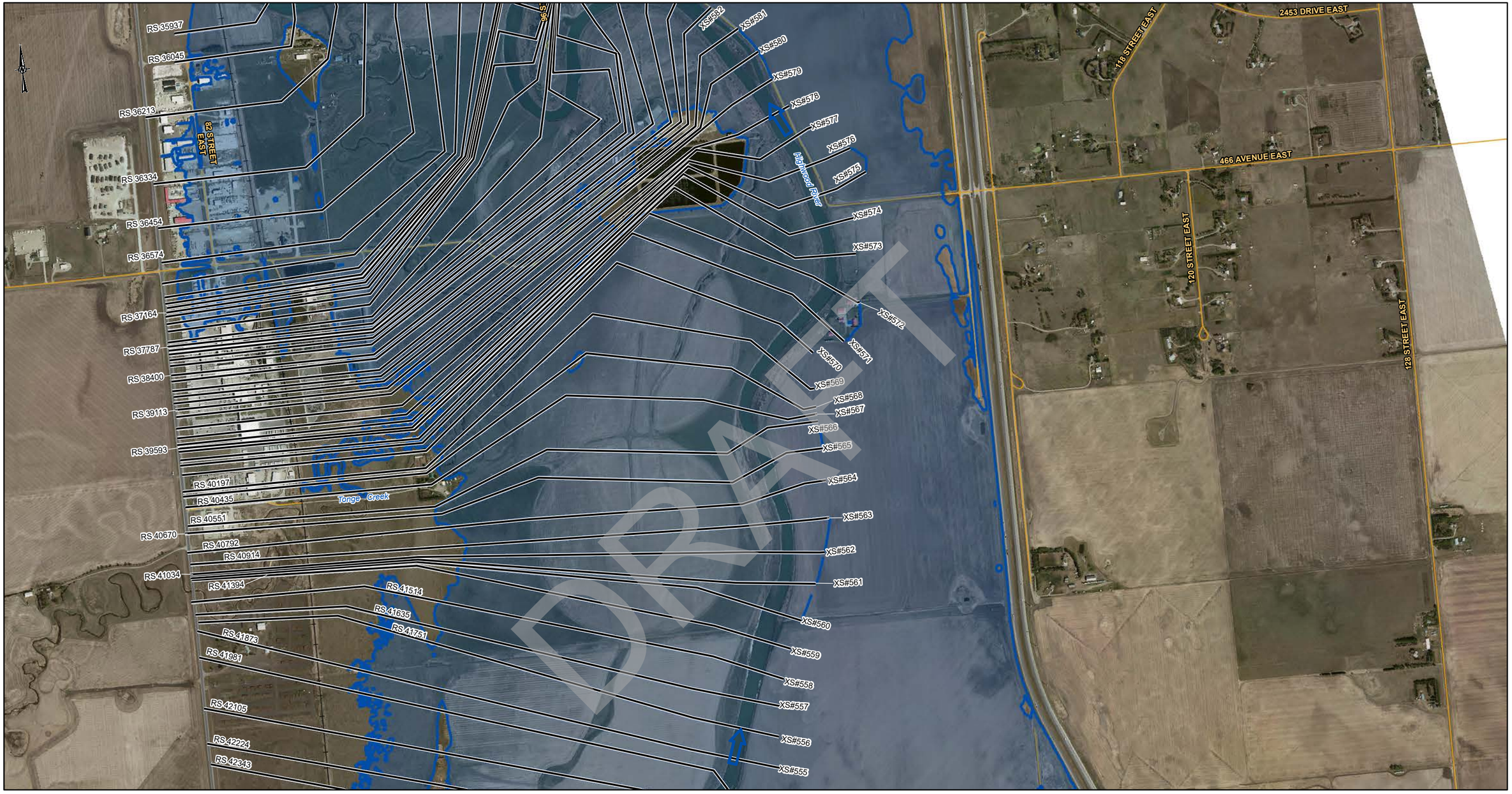
RS

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

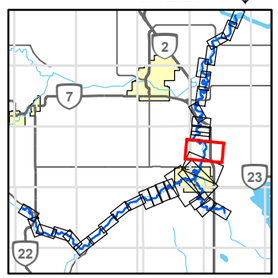
500-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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YYYY-MM-DD	2022-03-31
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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 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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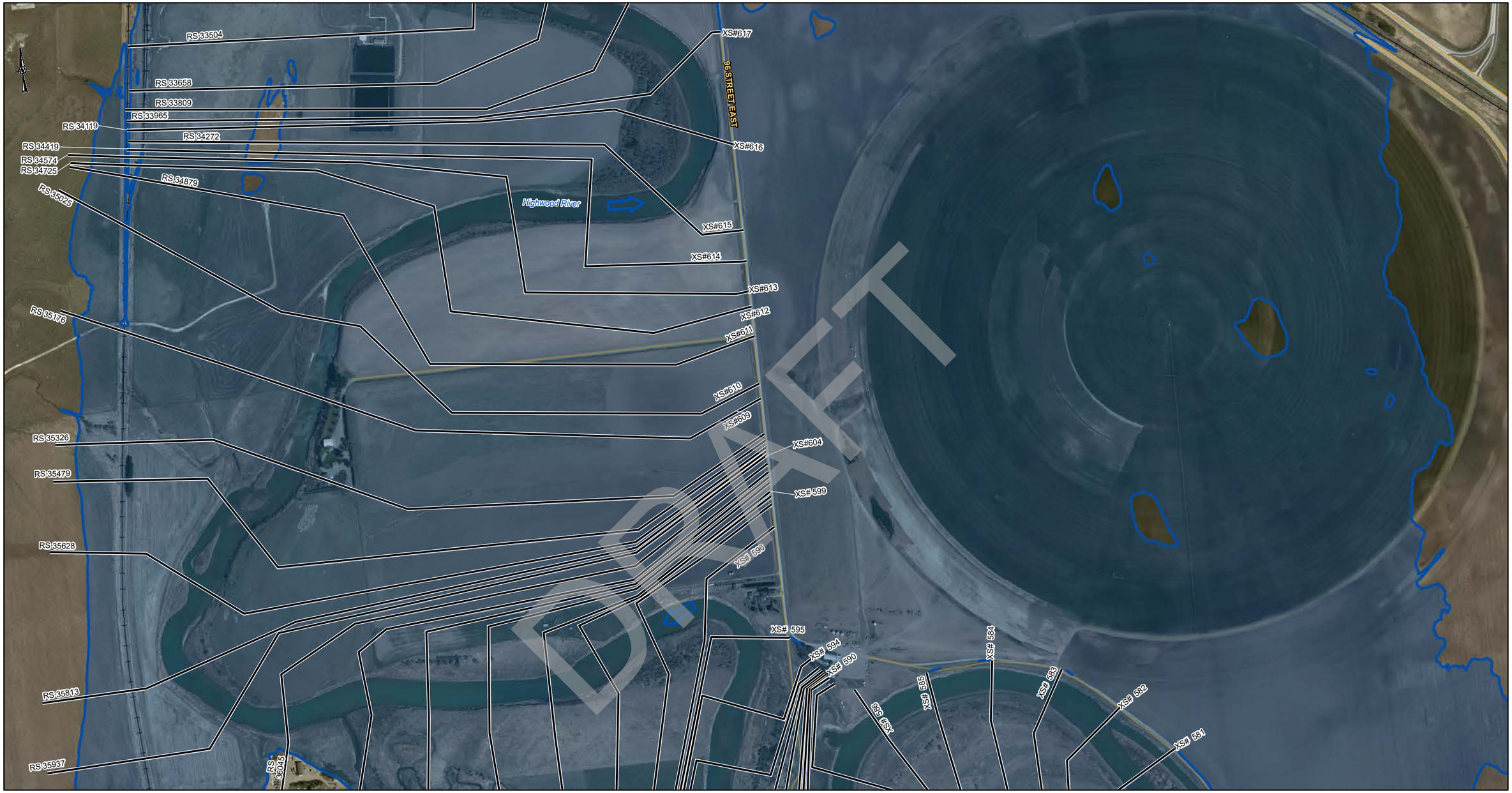
Classification: Public

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

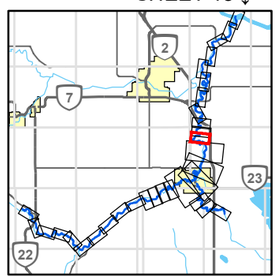
500-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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
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

25mm

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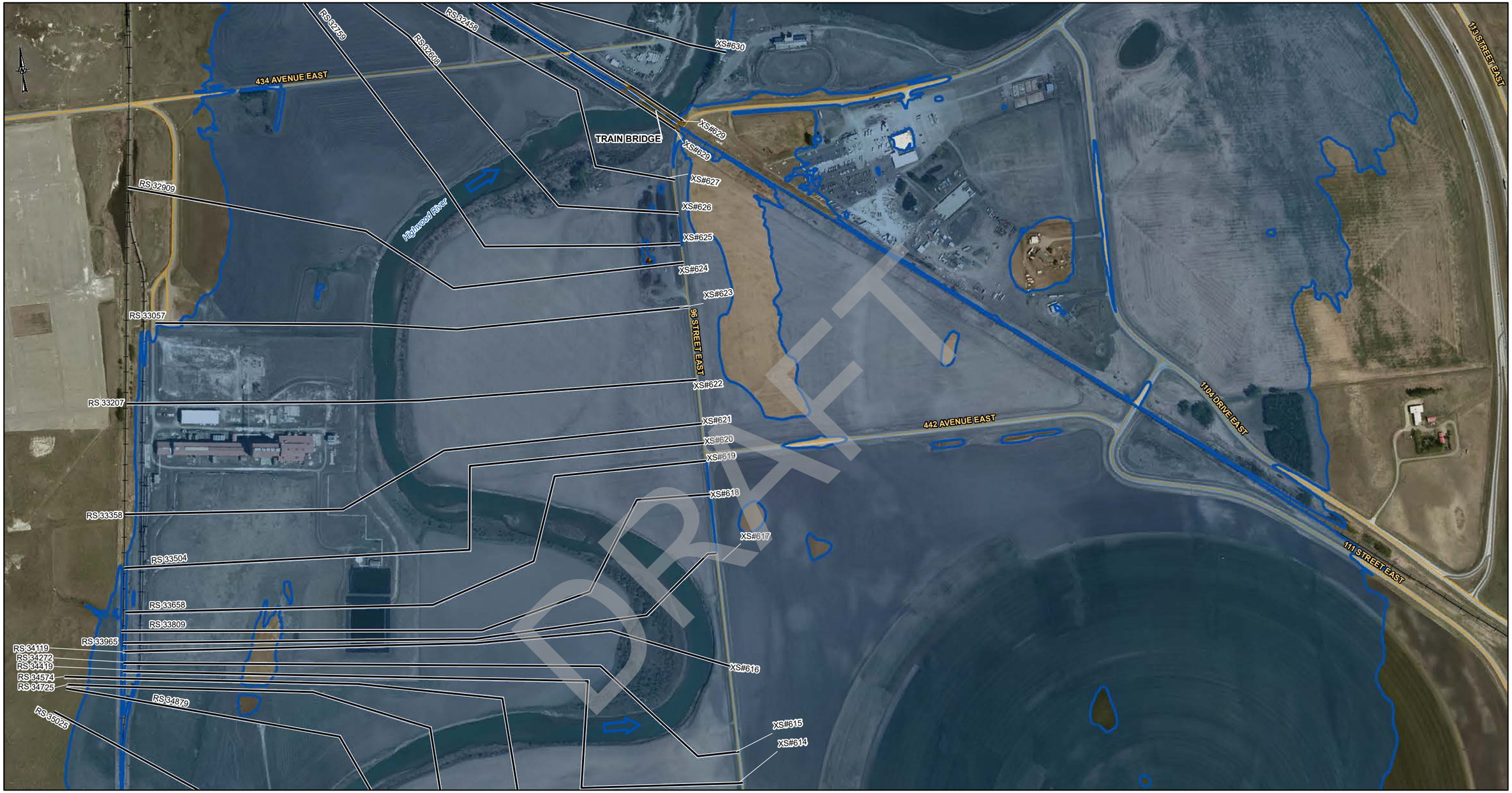
Classification: Public

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

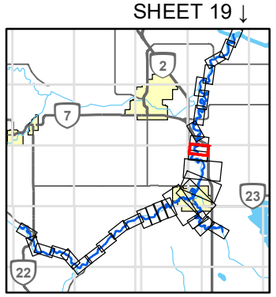
HYDRAULIC STRUCTURES

- 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



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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 20 of 33

DRAFT

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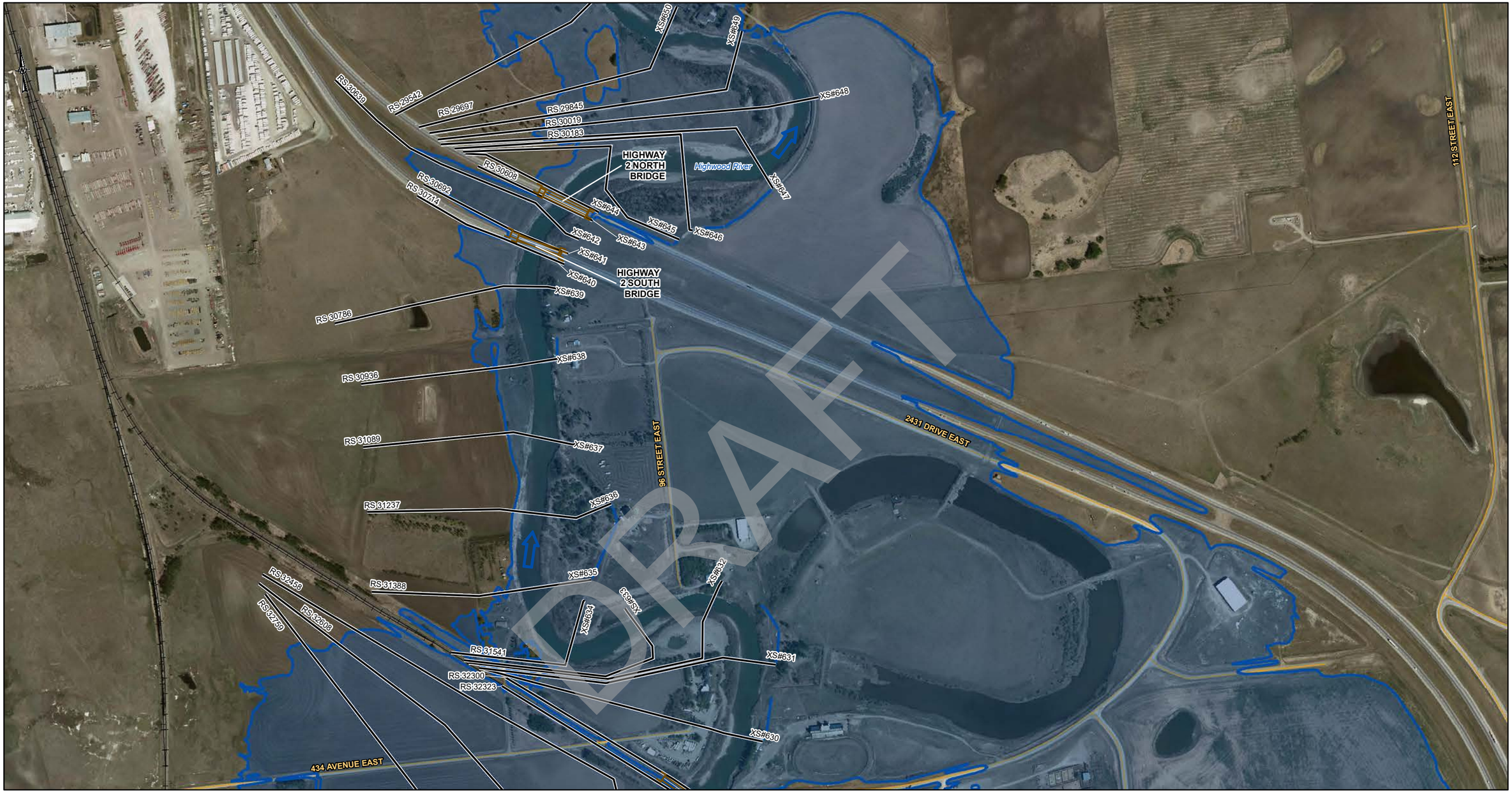
Classification: Public

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

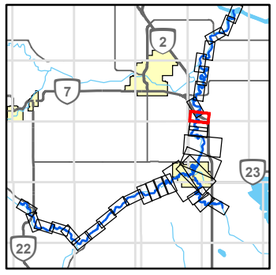
HYDRAULIC STRUCTURES

- 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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CONSULTANT
GOLDER
MEMBER OF WSP

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 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

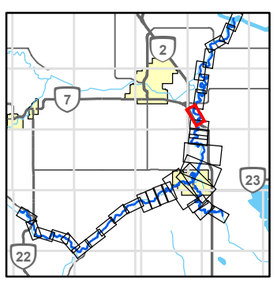
- CULVERT
- WEIR
- BRIDGE

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



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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
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

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536869_0500y-Inundation_Rev0.mxd

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

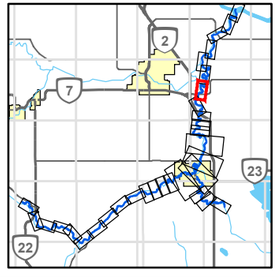
- CULVERT
- WEIR
- BRIDGE

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



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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
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

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

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

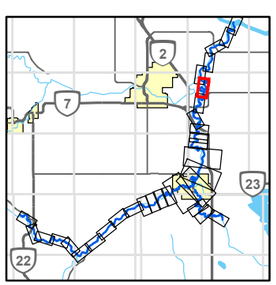
- CULVERT
- WEIR
- BRIDGE

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



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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 24 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

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

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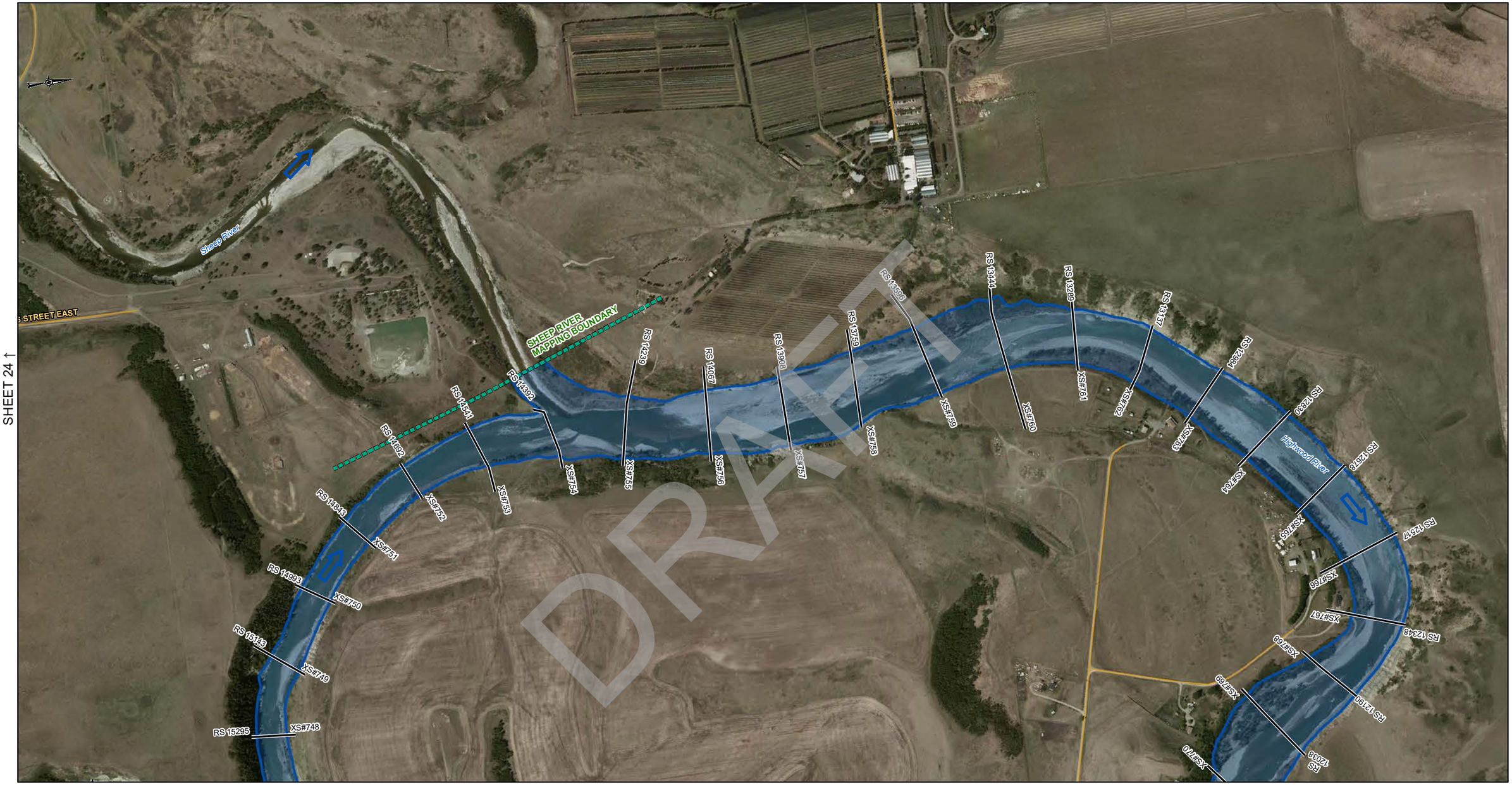
Classification: Public

SHEET 24 ↑

SHEET 26 ↓



LEGEND

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

HYDRAULIC STRUCTURES

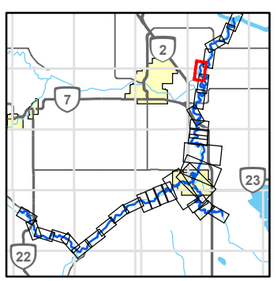
- CULVERT
- WEIR
- BRIDGE

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



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GOLDER
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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

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

25mm

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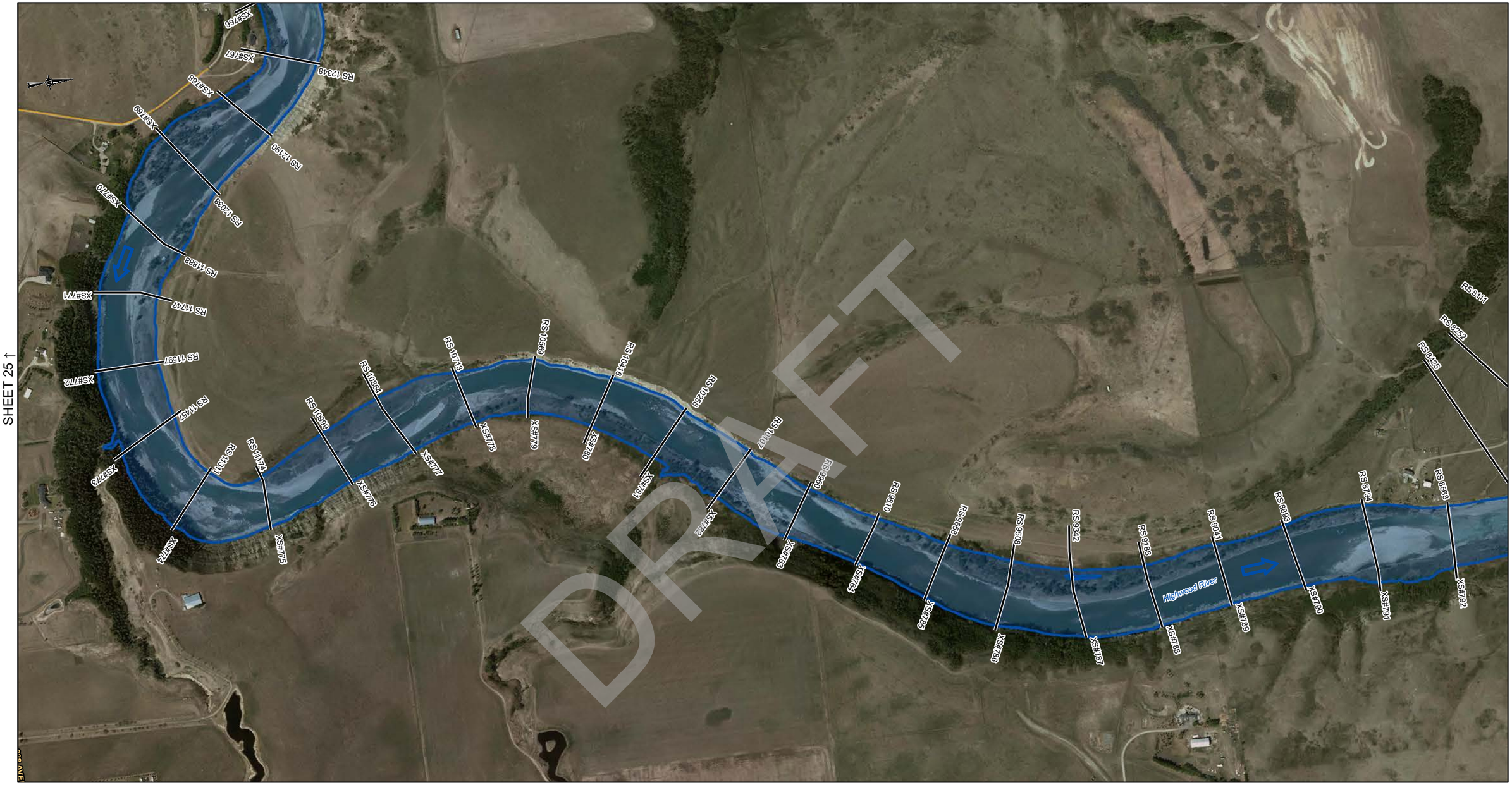
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0500y-Inundation_Rev0.mxd

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

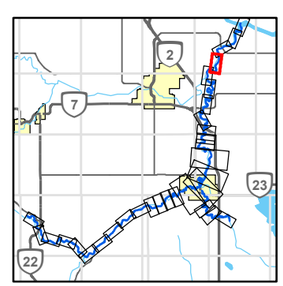
- CULVERT
- WEIR
- BRIDGE

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



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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 26 of 33

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

25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

Classification: Public

SHEET 26 ↑

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

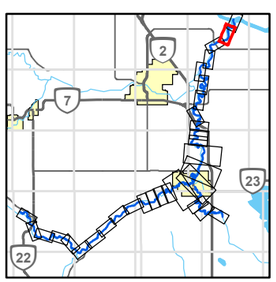
- CULVERT
- WEIR
- BRIDGE

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



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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 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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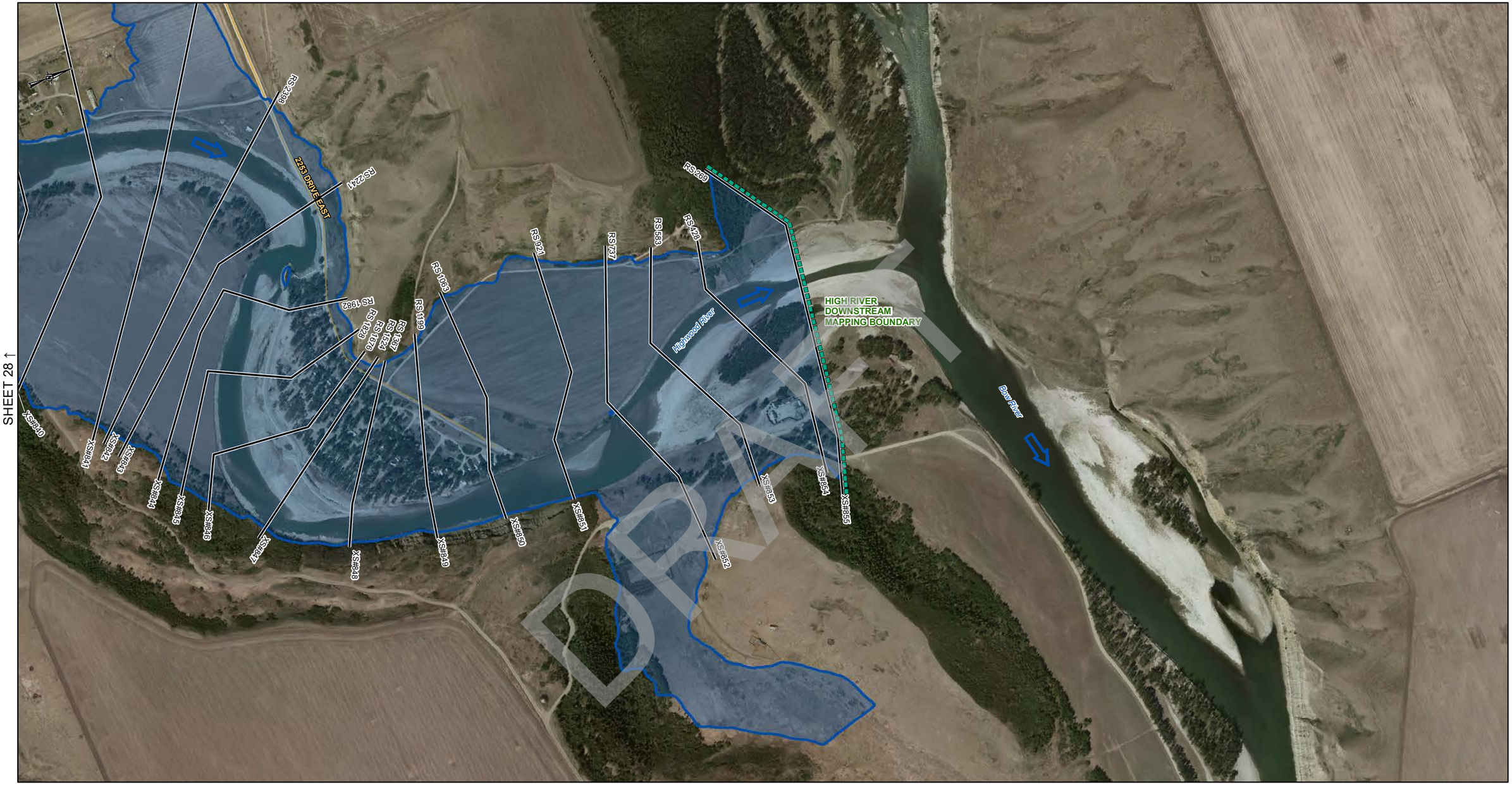
Classification: Public



LEGEND

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

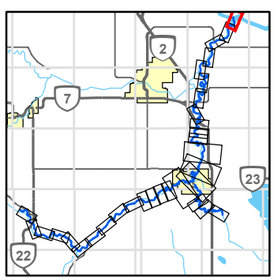
HYDRAULIC STRUCTURES

- 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



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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
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

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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

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

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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

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

25mm

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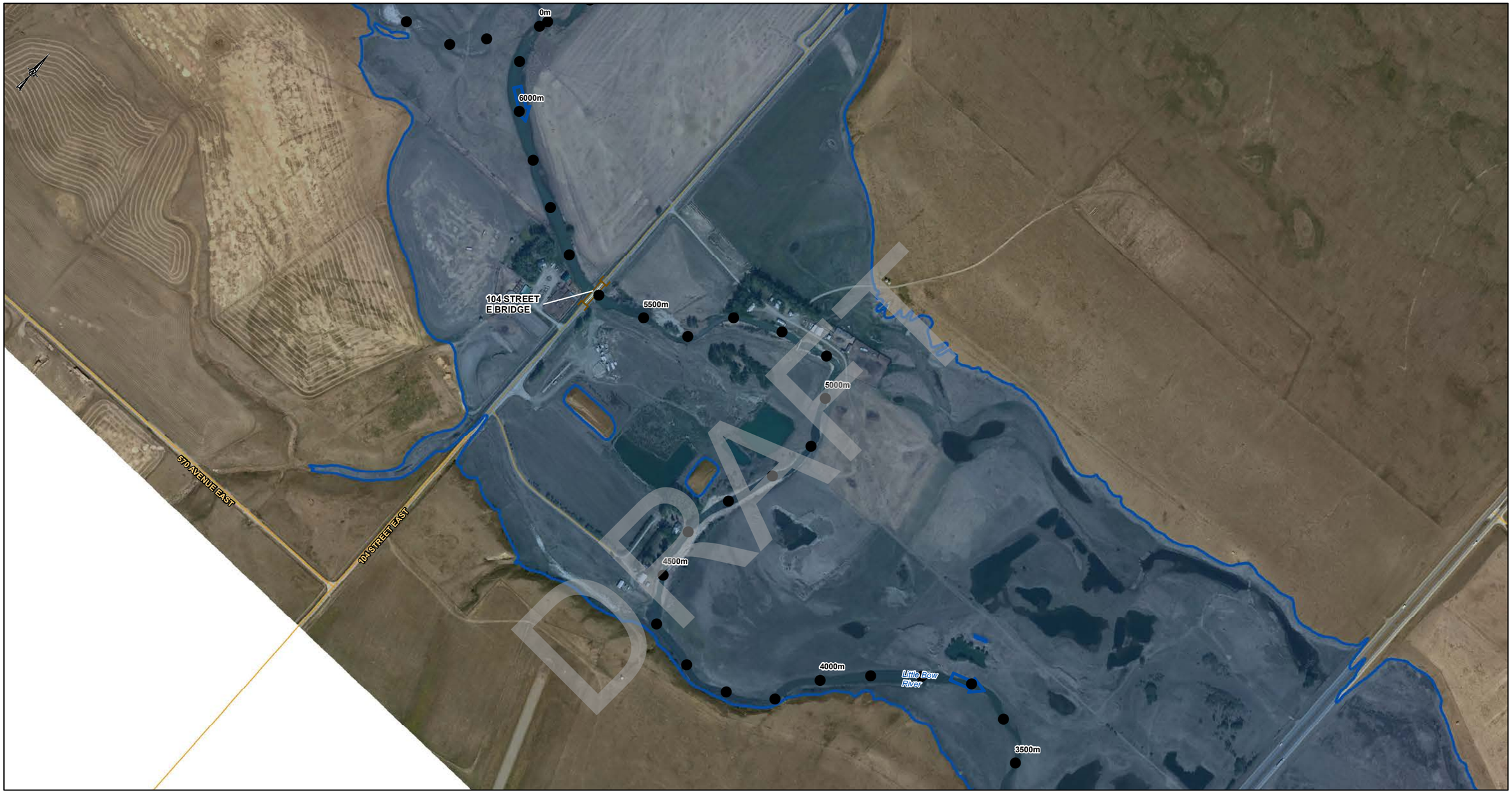
Classification: Public

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

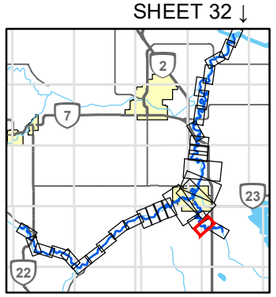
500-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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1:7500 METRES

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Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

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 31 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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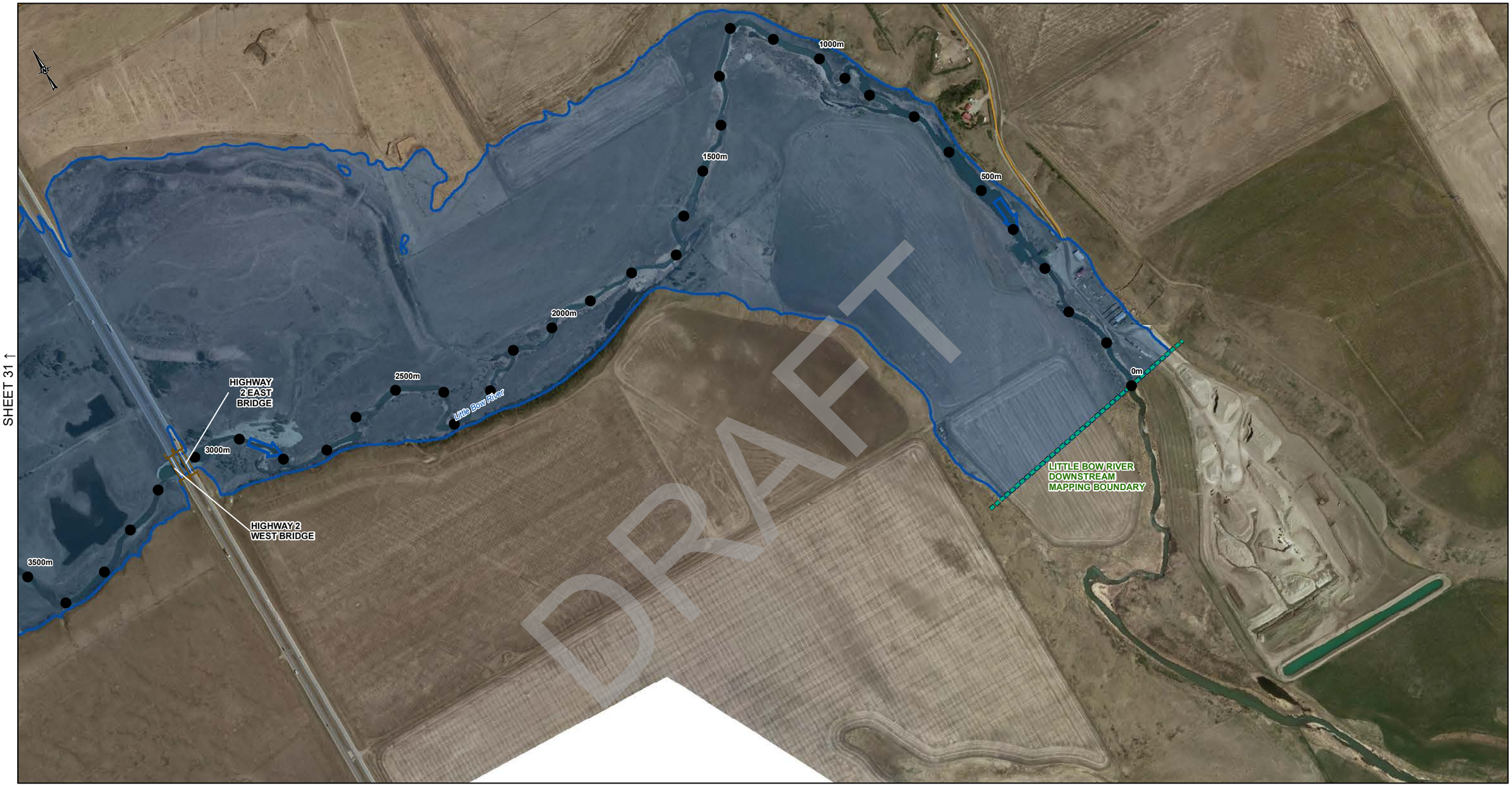
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0500y-Inundation_Rev0.mxd

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

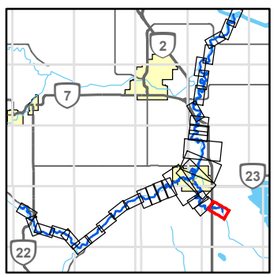
HYDRAULIC STRUCTURES

- 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



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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 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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25mm
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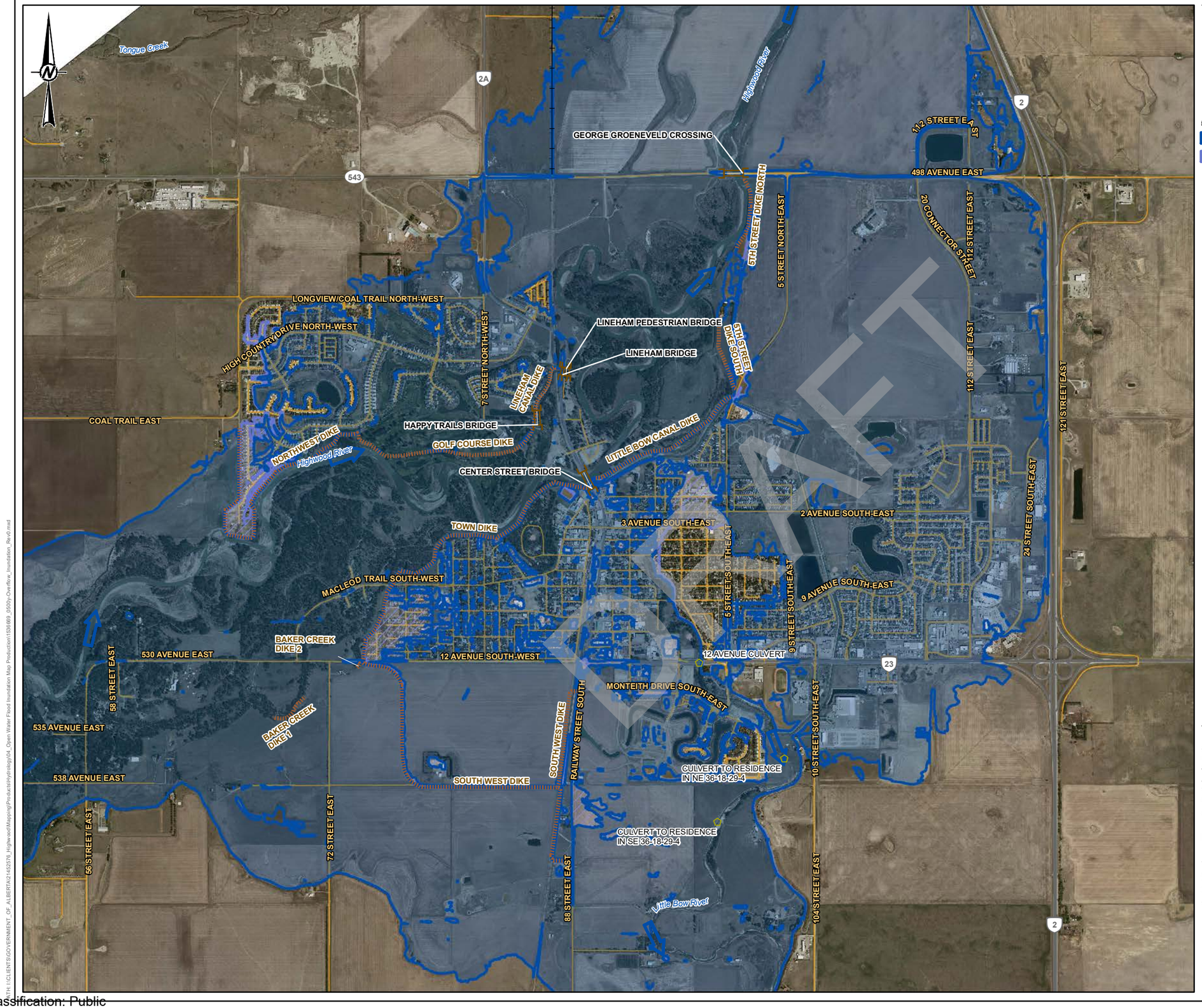
Classification: Public



LEGEND

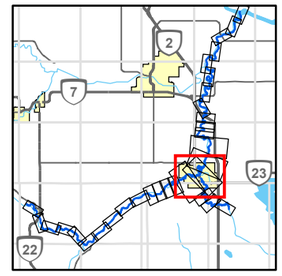
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

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



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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
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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0500y-Overflow_Inundation_Rev0.mxd

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

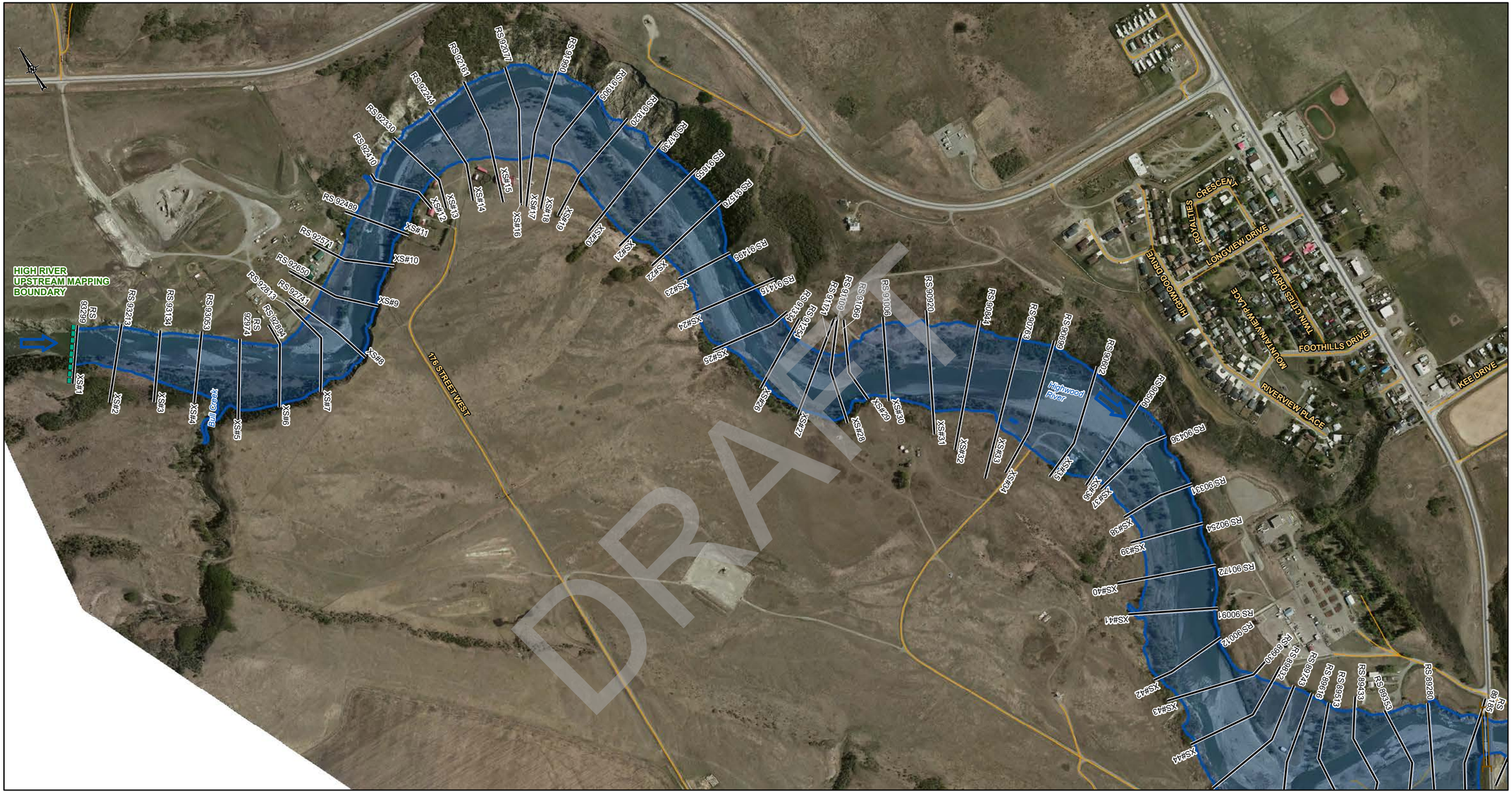
25mm 0

Classification: Public

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

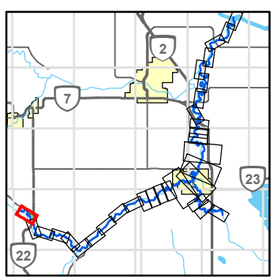
HYDRAULIC STRUCTURES

- 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



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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
750 YEAR INUNDATION EXTENT

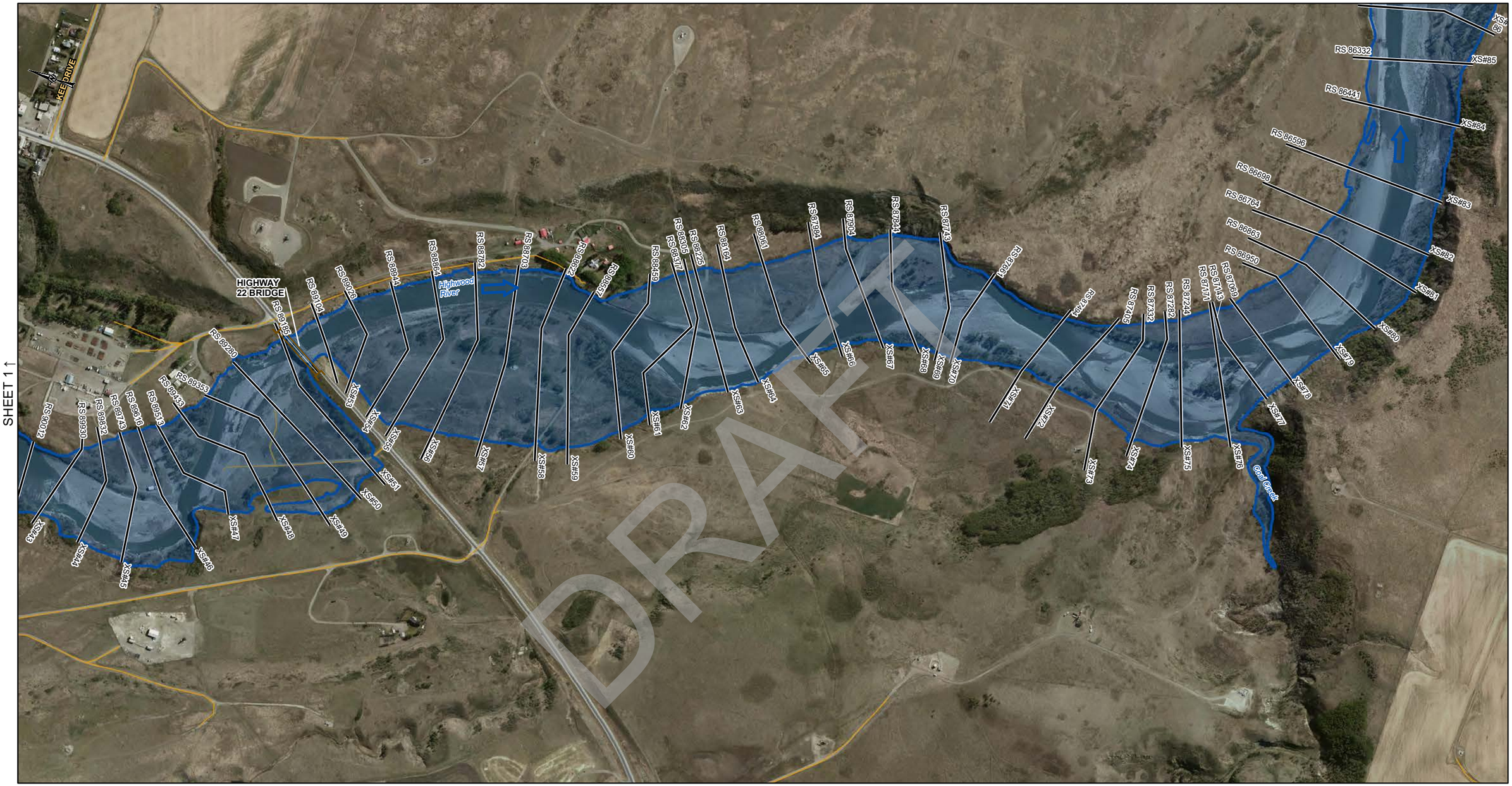
PROJECT NO.	CONTROL	REV.	FIGURE
1536669	4000	0	SHEET 1 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\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



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

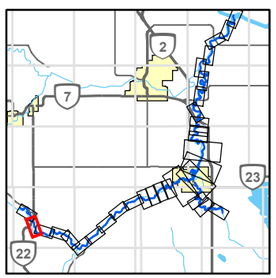
- CULVERT
- WEIR
- BRIDGE

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



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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
750 YEAR INUNDATION EXTENT

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

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

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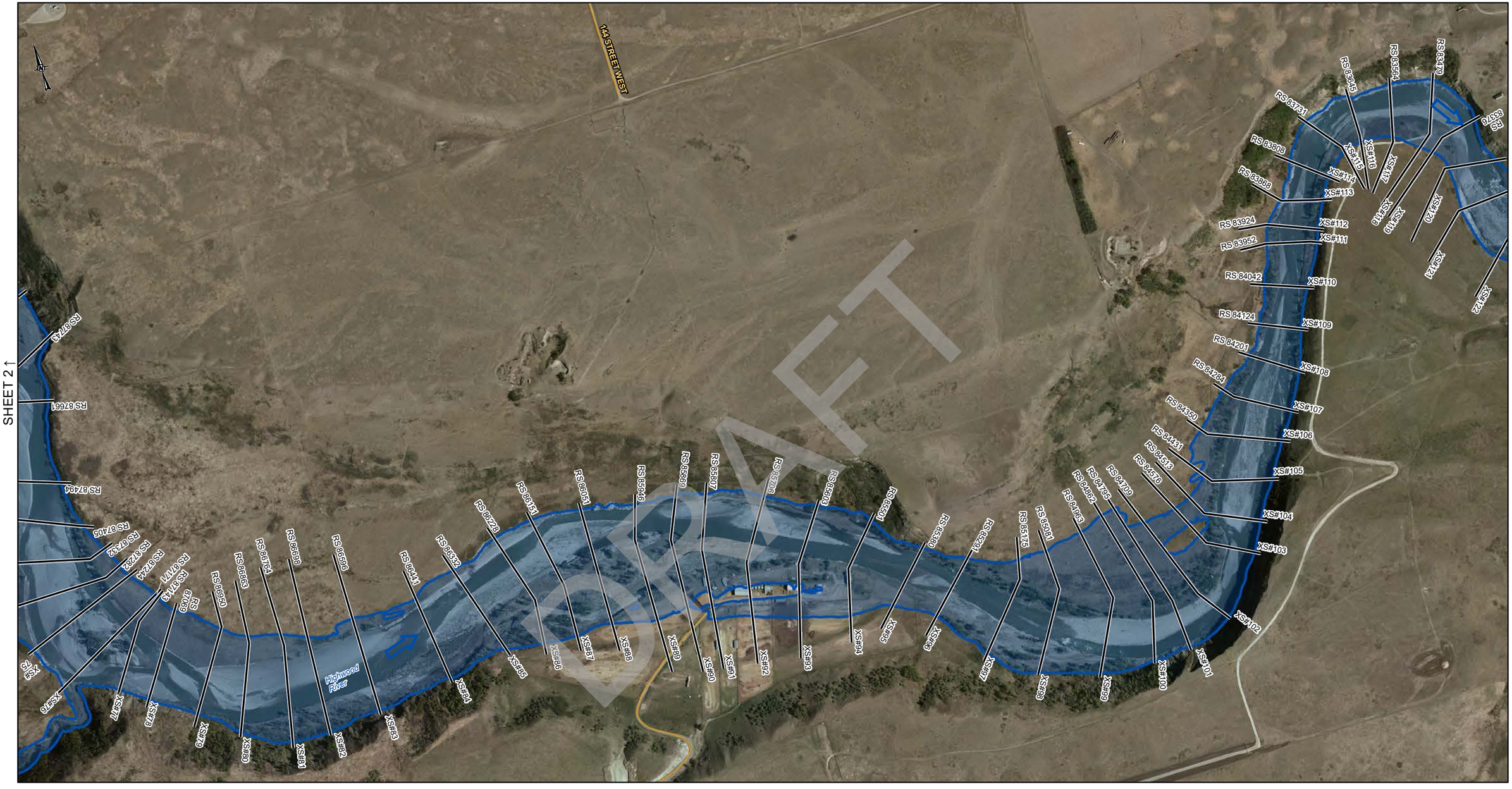
Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

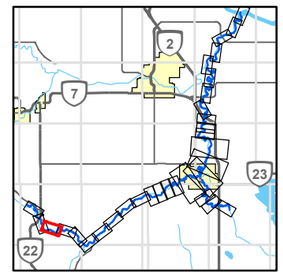
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

CONSULTANT

GOLDER MEMBER OF WSP

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PROJECT

HIGHWOOD RIVER HAZARD STUDY

TITLE

750 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

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

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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
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

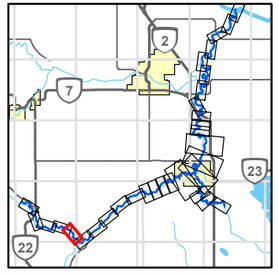
- CULVERT
- WEIR
- BRIDGE

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



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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 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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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

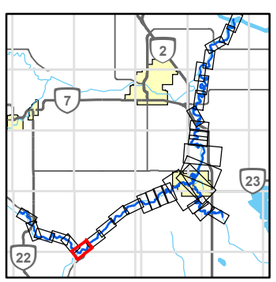
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

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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

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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

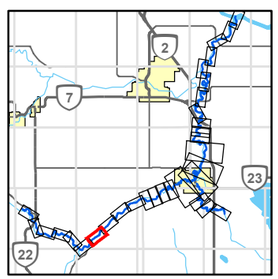
- CULVERT
- WEIR
- BRIDGE

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



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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 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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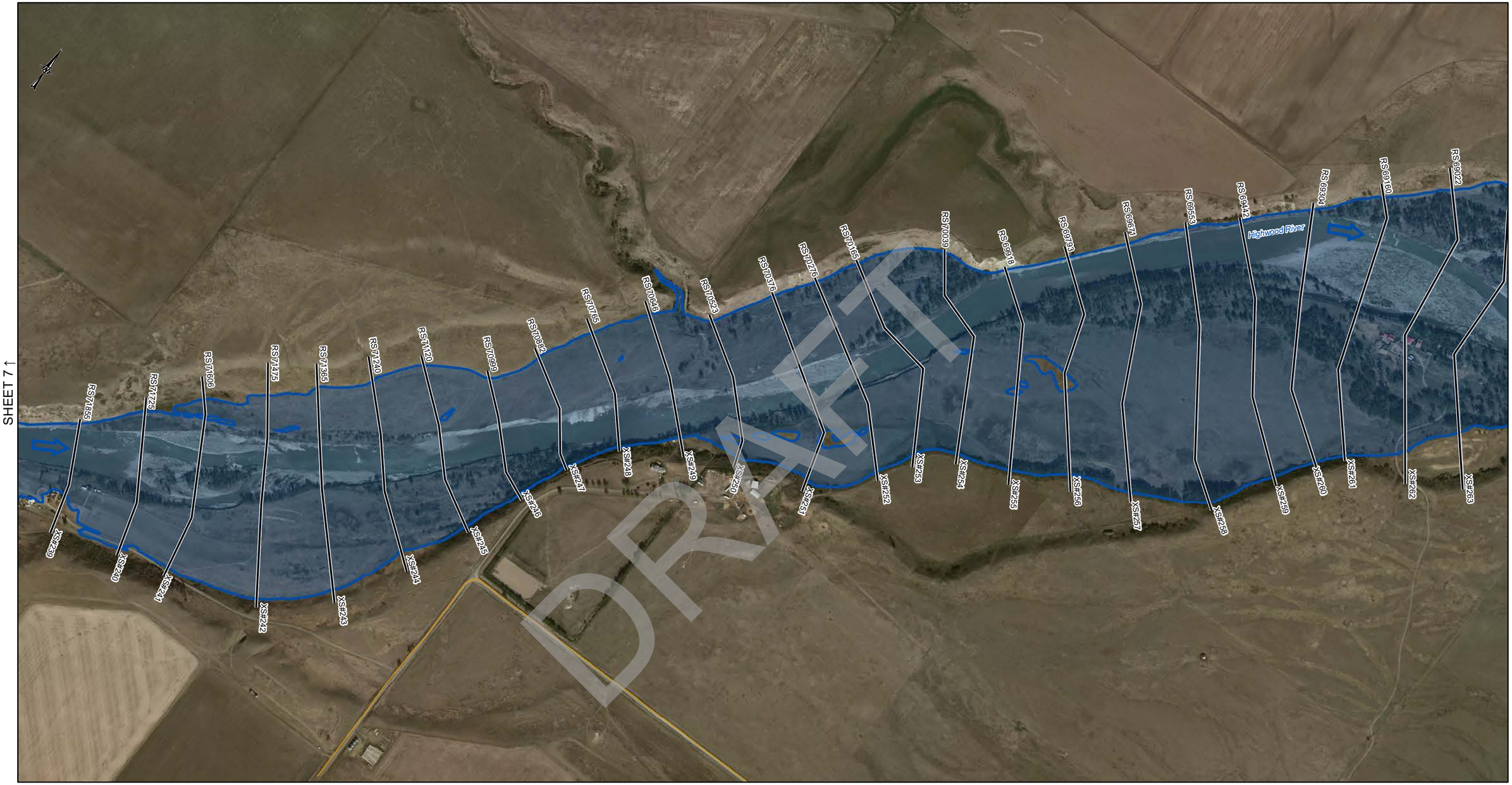
Classification: Public

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

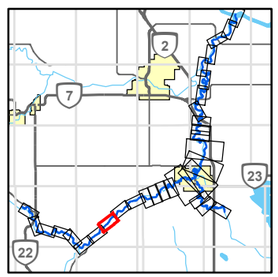
- CULVERT
- WEIR
- BRIDGE

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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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
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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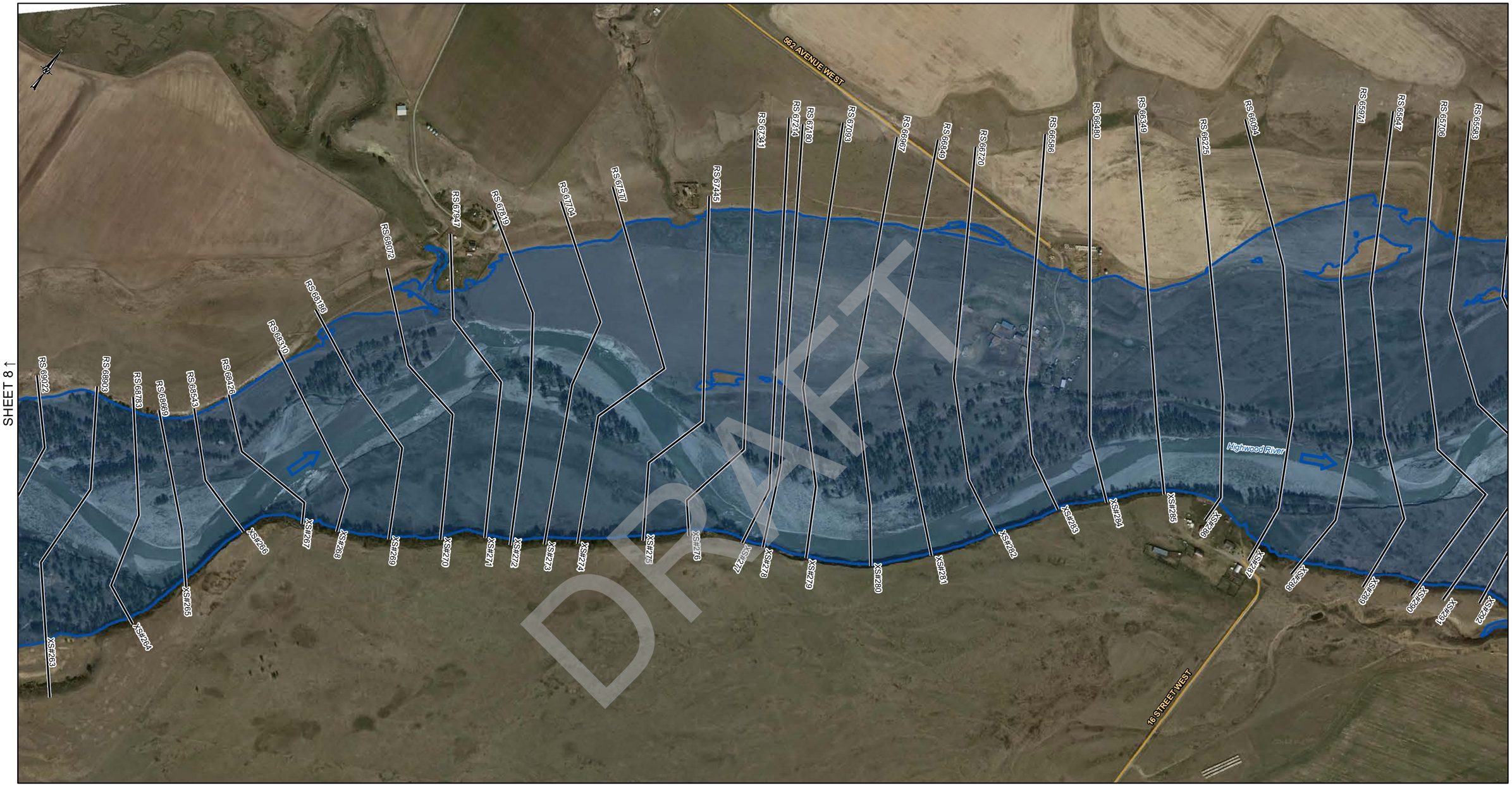
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

Classification: Public

SHEET 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

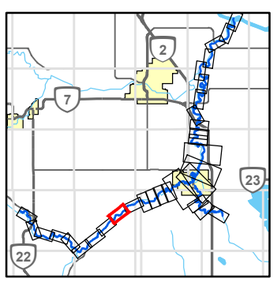
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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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
750 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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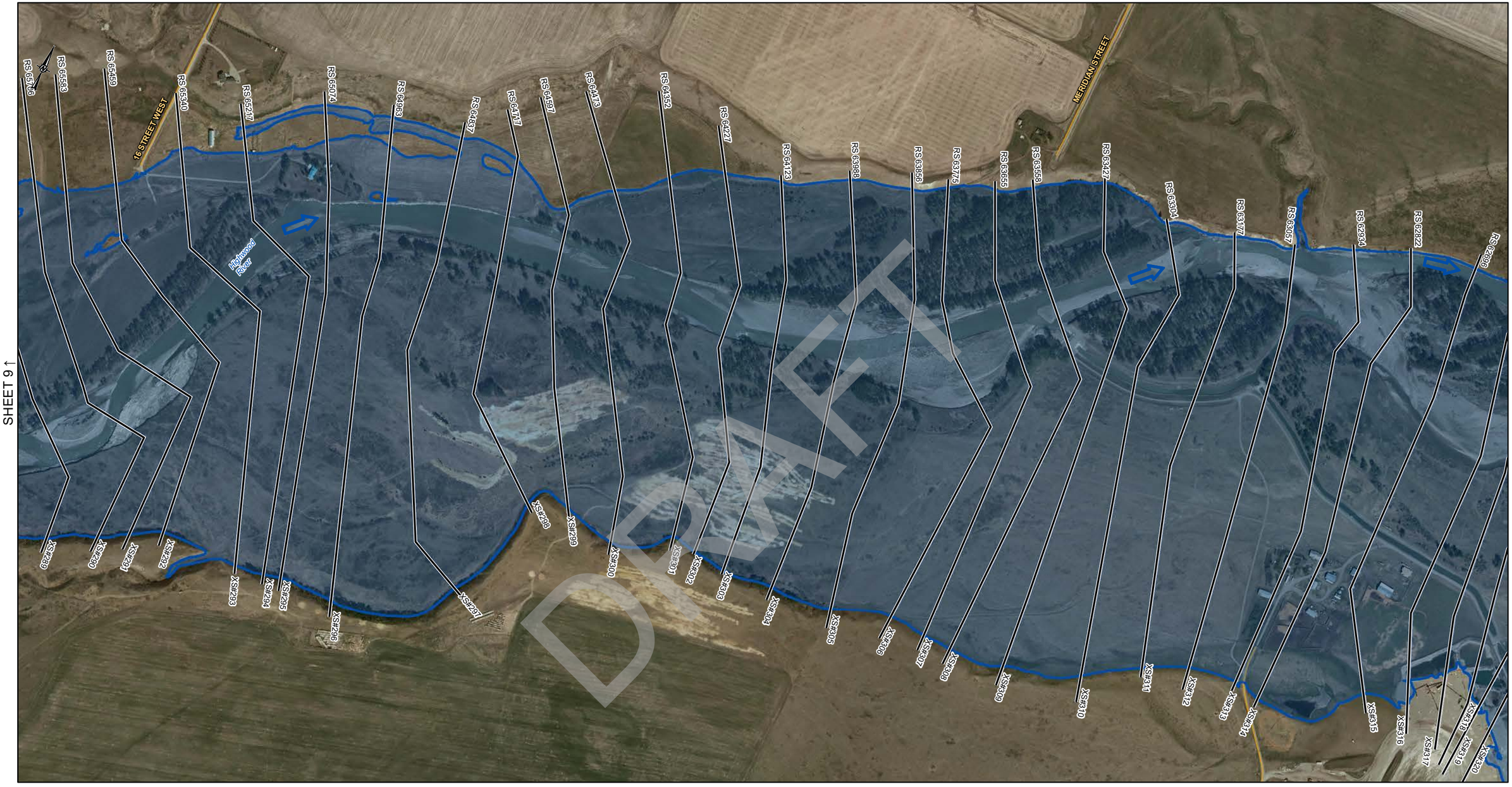
Classification: Public

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

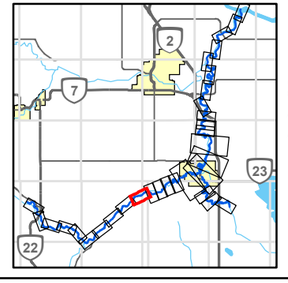
- CULVERT
- WEIR
- BRIDGE

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



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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

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

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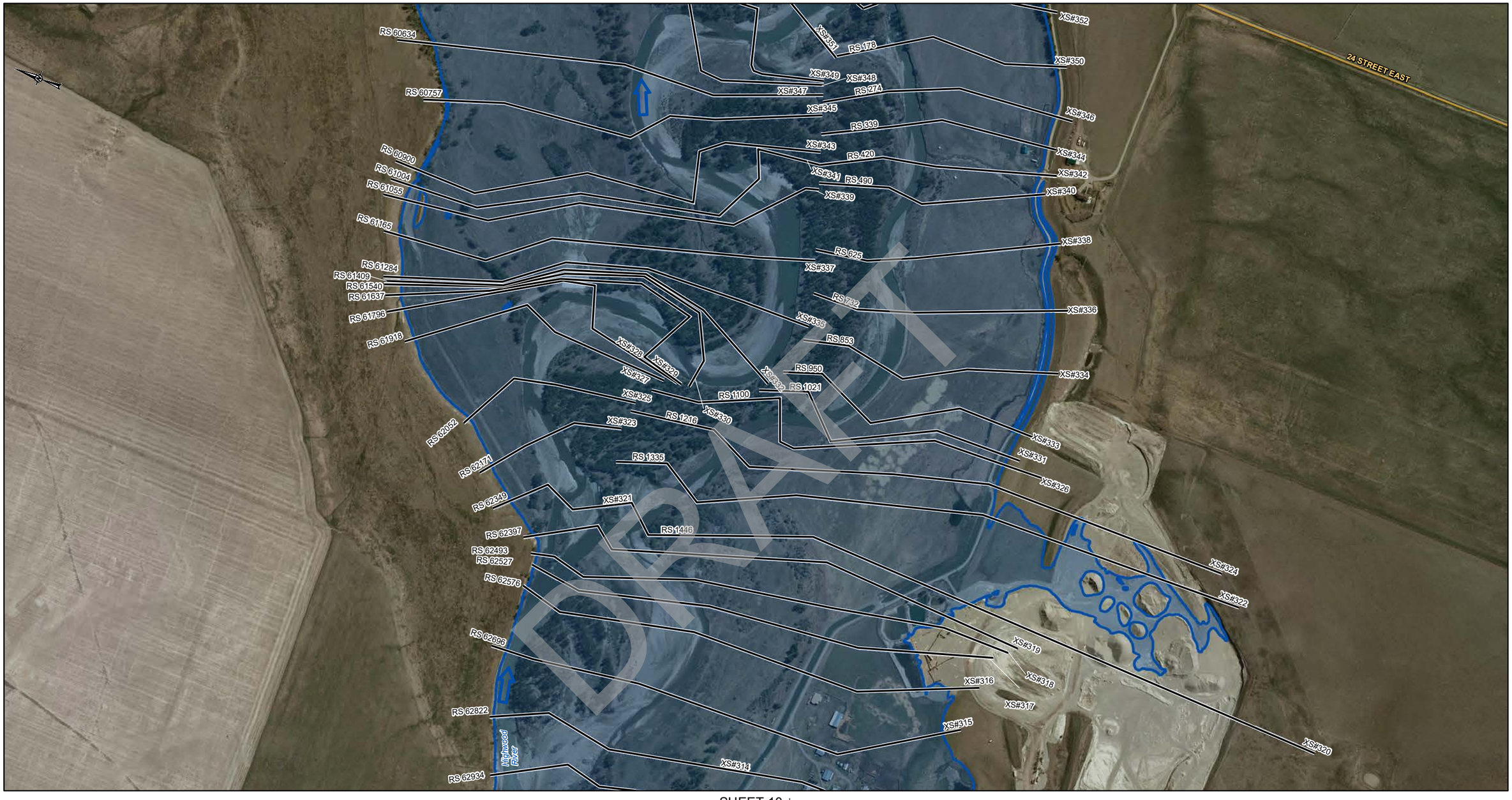
Classification: Public

SHEET 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

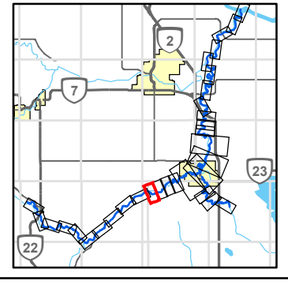
- CULVERT
- WEIR
- BRIDGE

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



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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 11 of 33

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21442576_Highwood\Mapping\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

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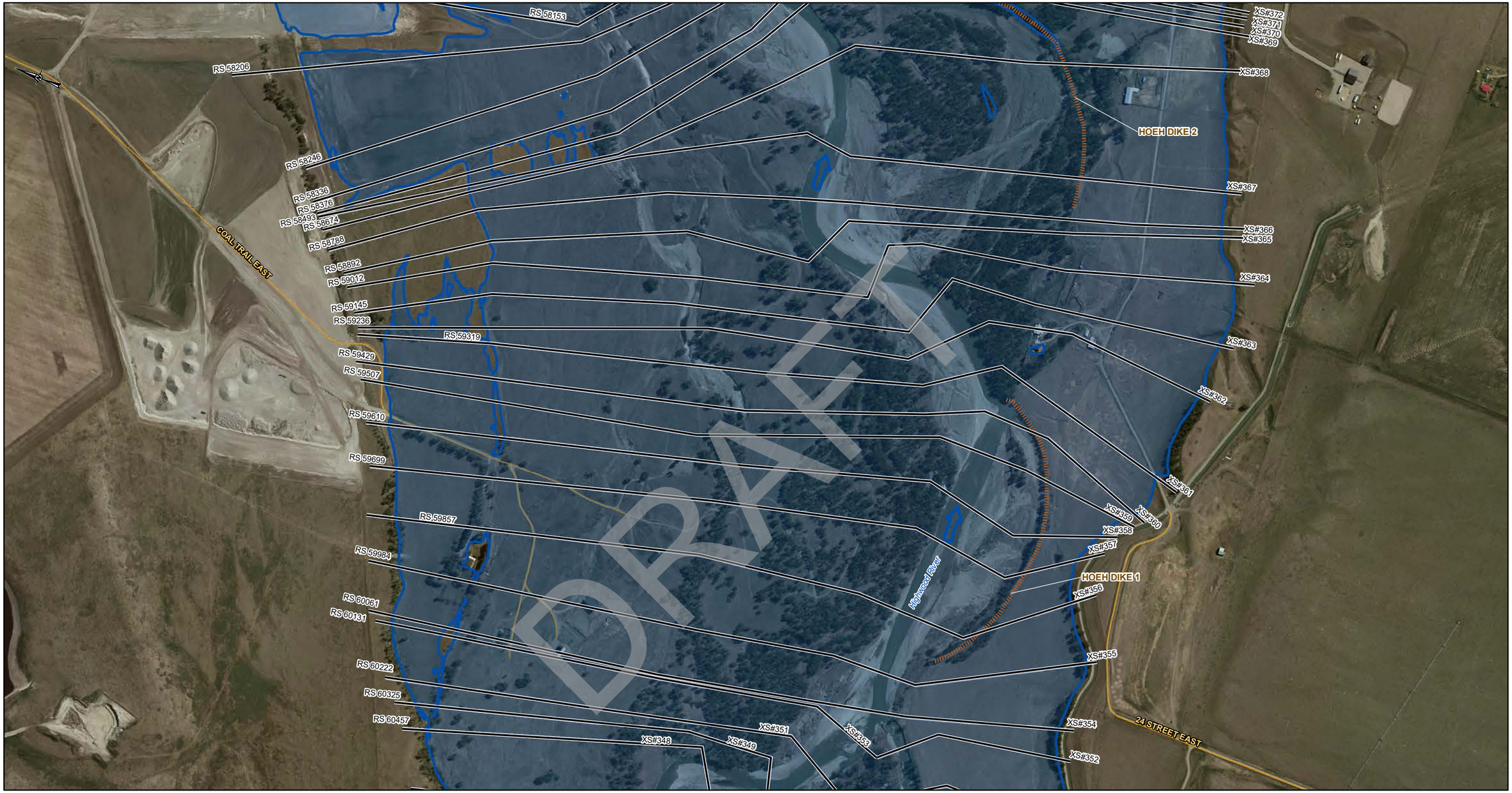
Classification: Public

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

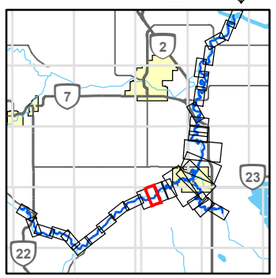
- CULVERT
- WEIR
- BRIDGE

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



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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 12 of 33

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_HighwoodMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750yr-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 ↑



LEGEND

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

HYDRAULIC STRUCTURES

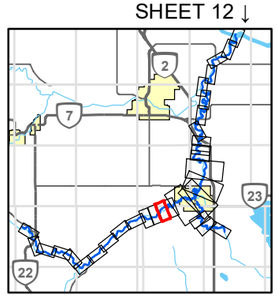
- CULVERT
- WEIR
- BRIDGE

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 ↓



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DESIGNED	PT
PREPARED	NB
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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 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

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

25mm

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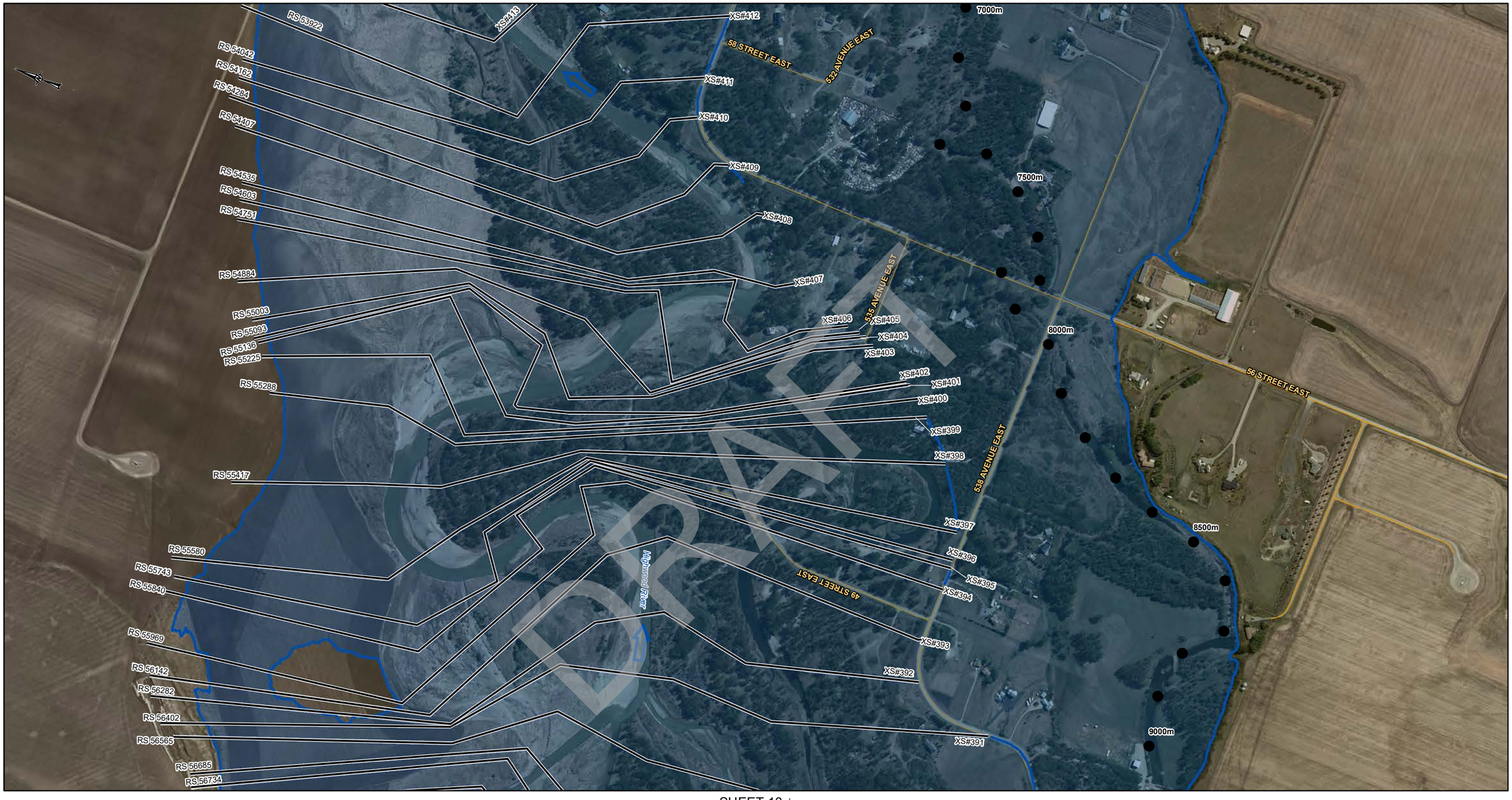
Classification: Public

SHEET 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

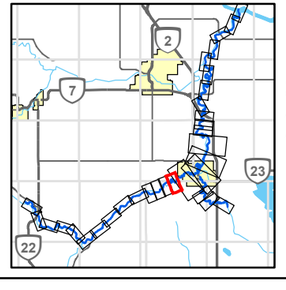
750-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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
750 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_0750y-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 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

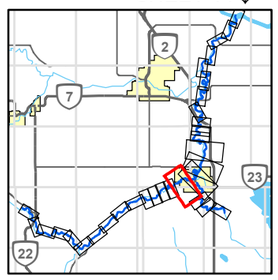
- CULVERT
- WEIR
- BRIDGE

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



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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 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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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

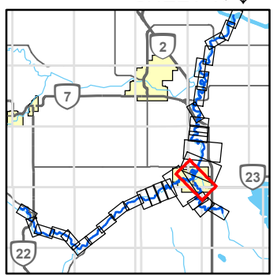
750-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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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Classification: Public

SHEET 18 ↑


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RS 40792
RS 40814
RS 41034
RS 41274
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RS 41751
RS 41873
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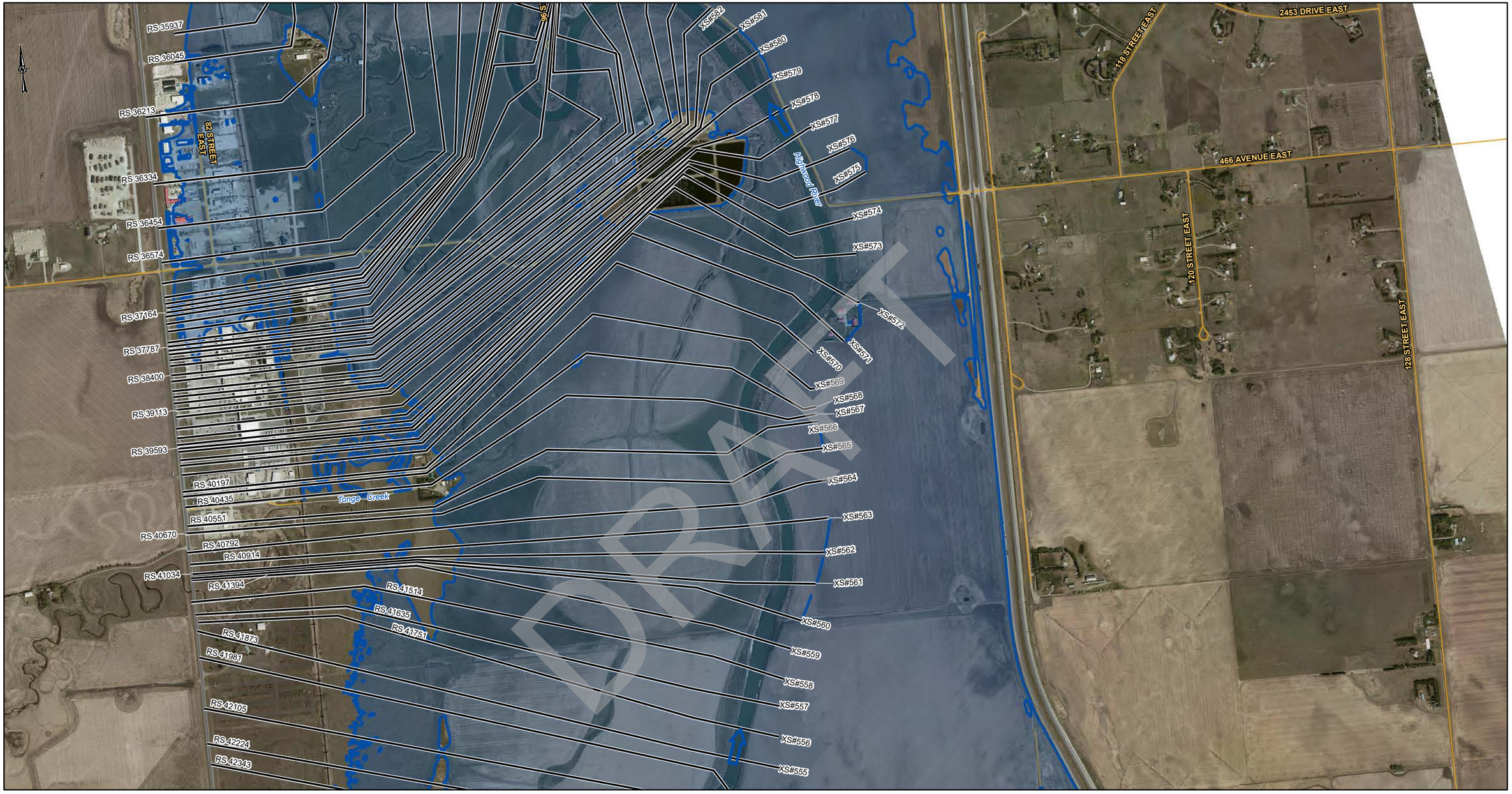


LEGEND

- 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

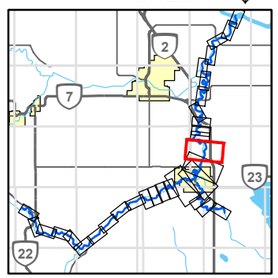
750-YEAR FLOOD INUNDATION EXTENT

- 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 17 ↓



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1:15000 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
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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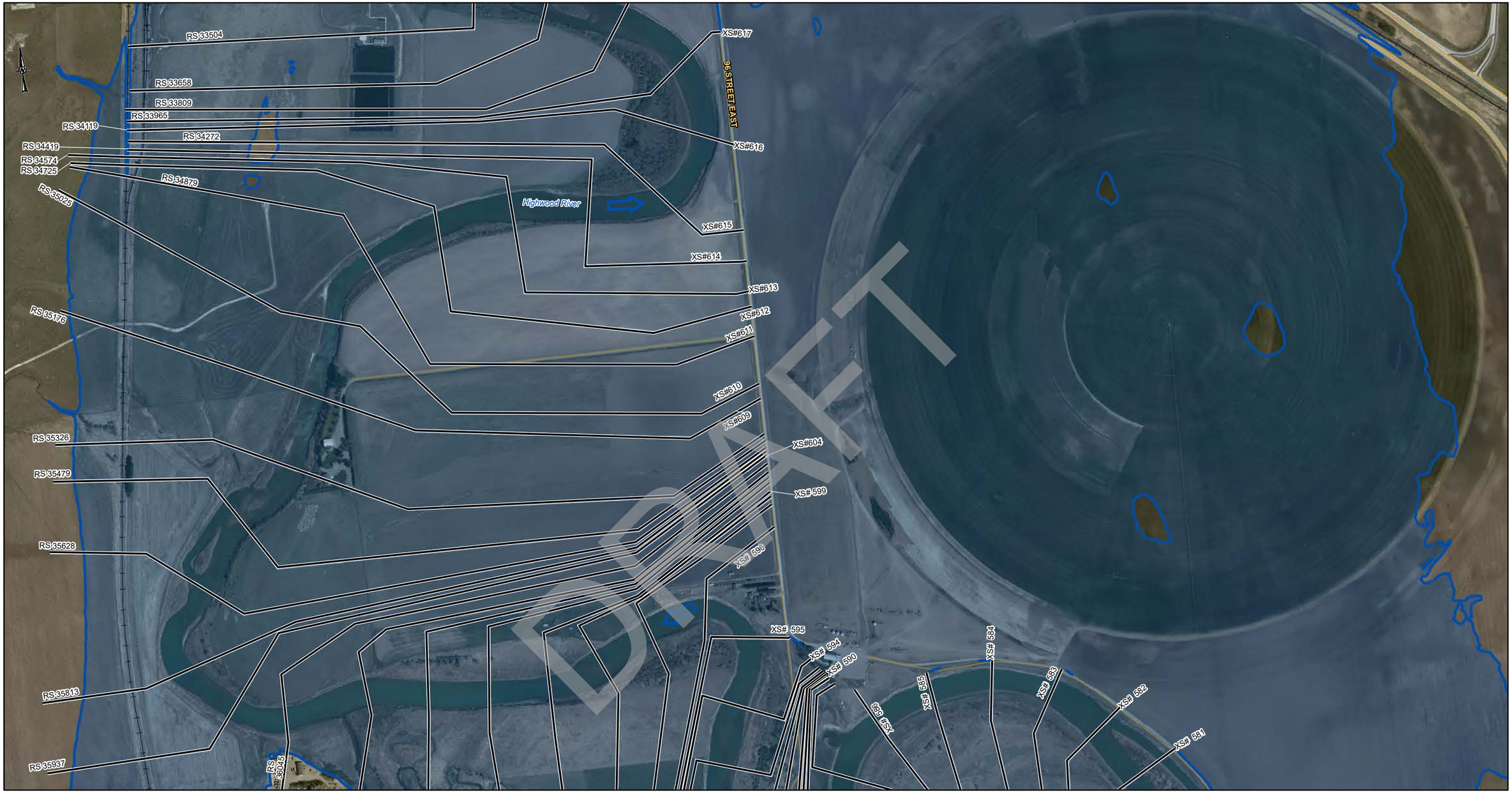
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576 Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

Classification: Public

SHEET 20 ↑



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

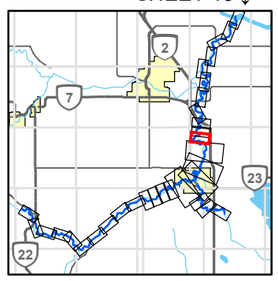
750-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S

SHEET 18 ↓



0 250 500

1:7500 METRES

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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
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

25mm

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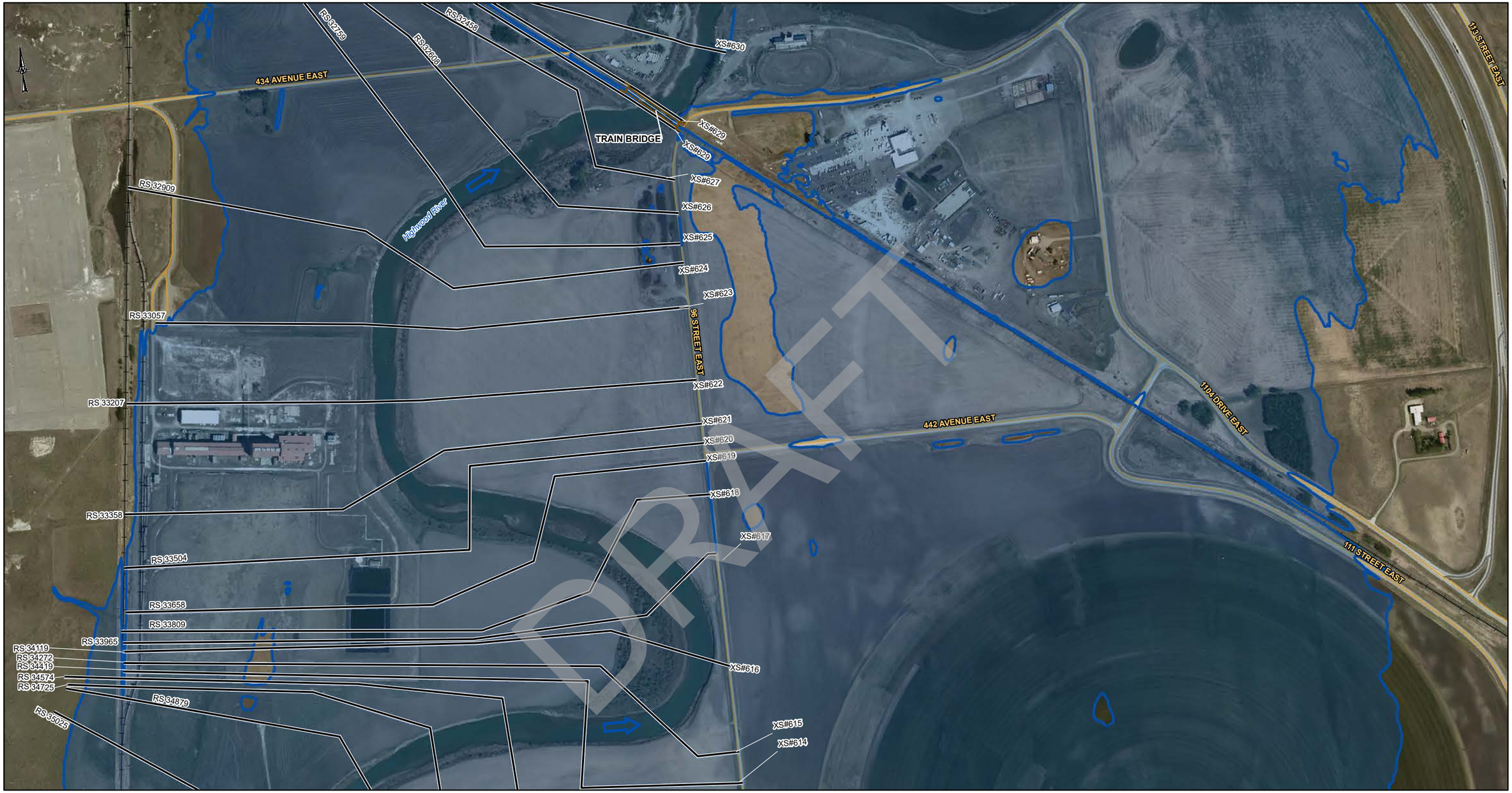
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_0750yr-Inundation_Rev0.mxd

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

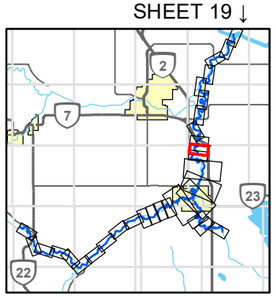
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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 20 of 33

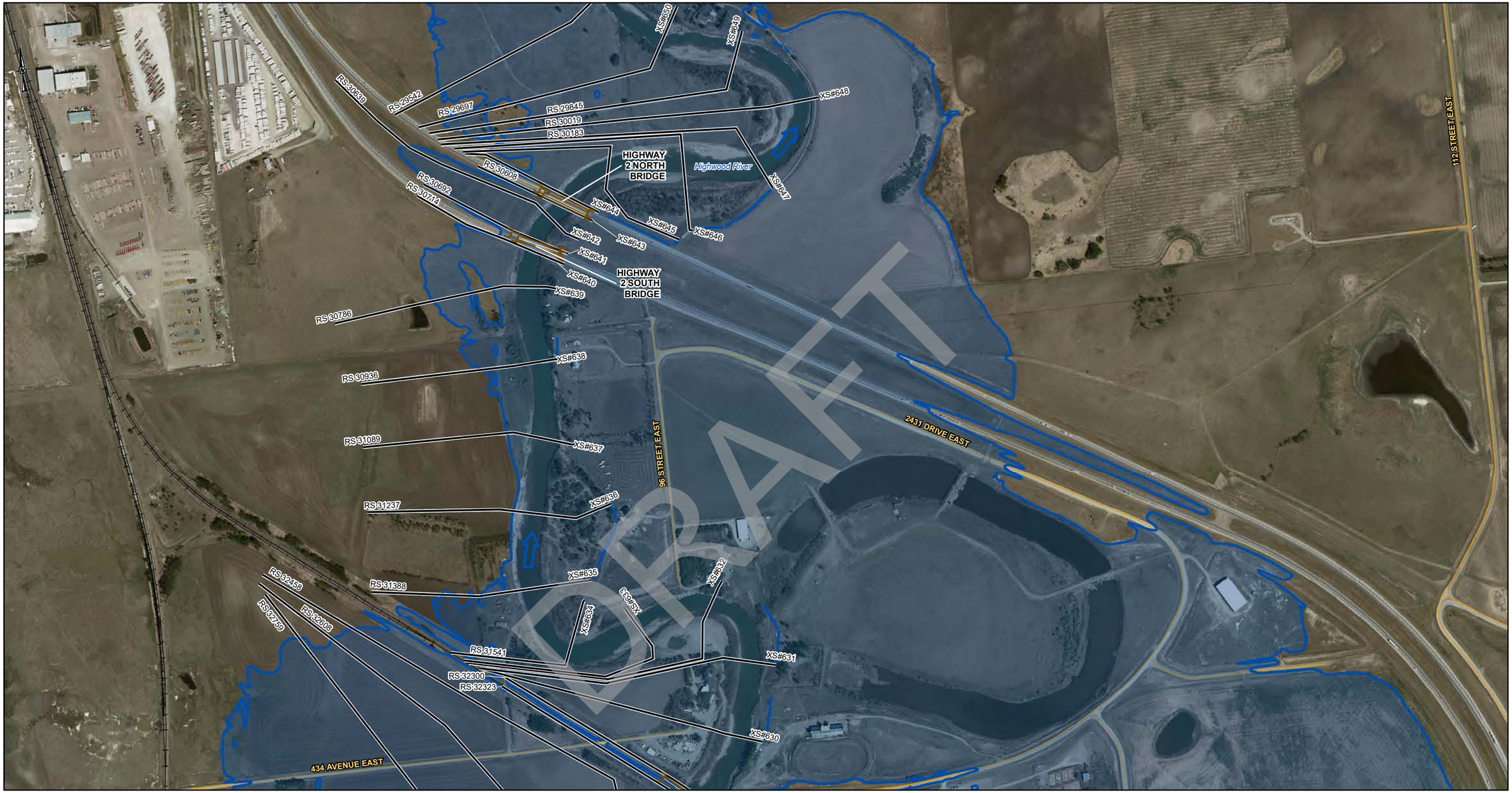
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

0 25mm

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

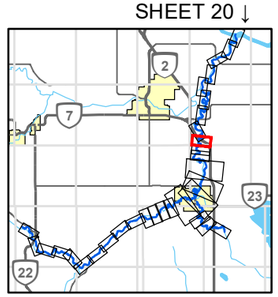
750-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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CONSULTANT
GOLDER
MEMBER OF WSP

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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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_0759y-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

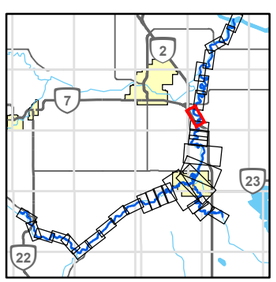
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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 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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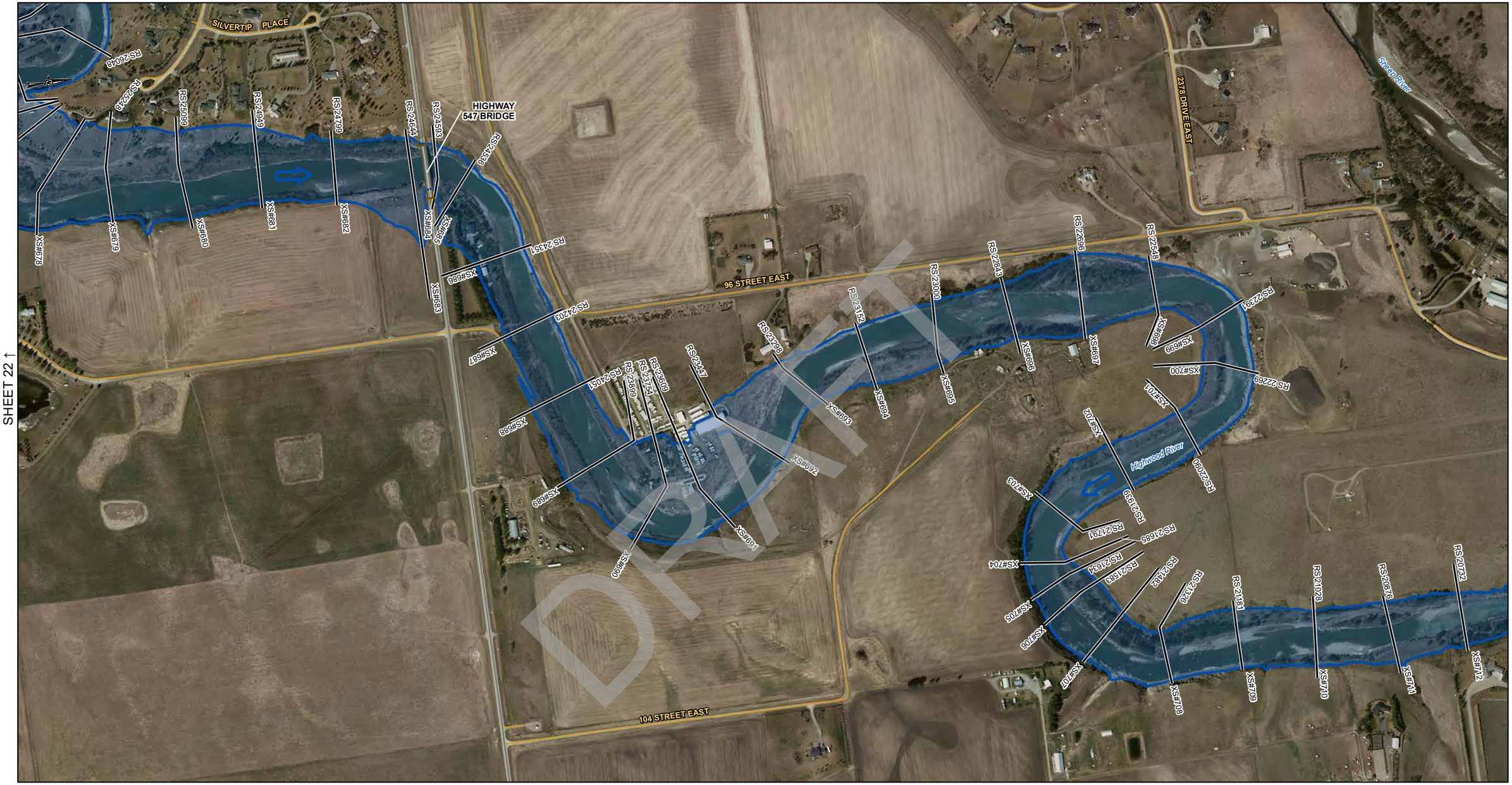
Classification: Public

SHEET 22 ↑

SHEET 24 ↓



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

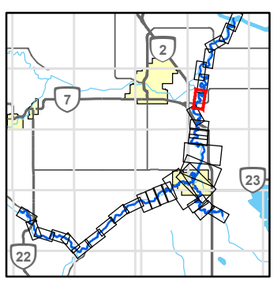
- CULVERT
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

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

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF HIGH RIVER = 3000 M^3/S



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1:7500 METRES

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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 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

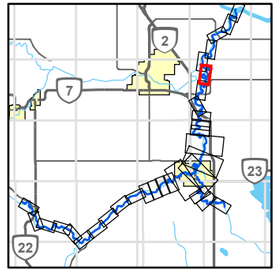
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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 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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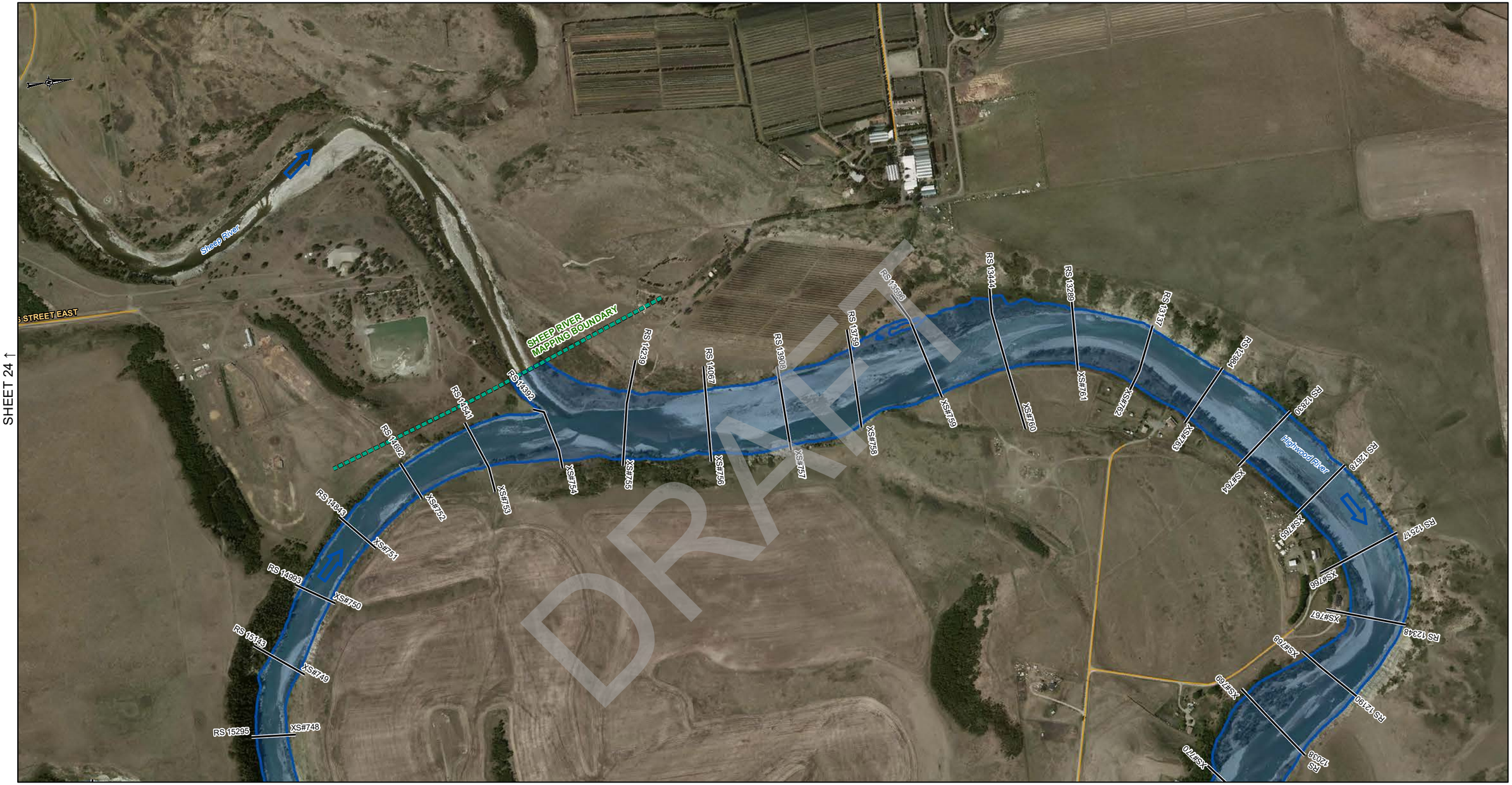
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

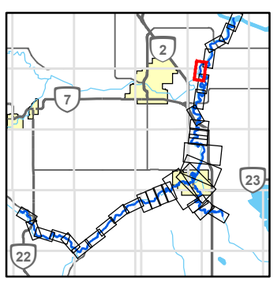
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
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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 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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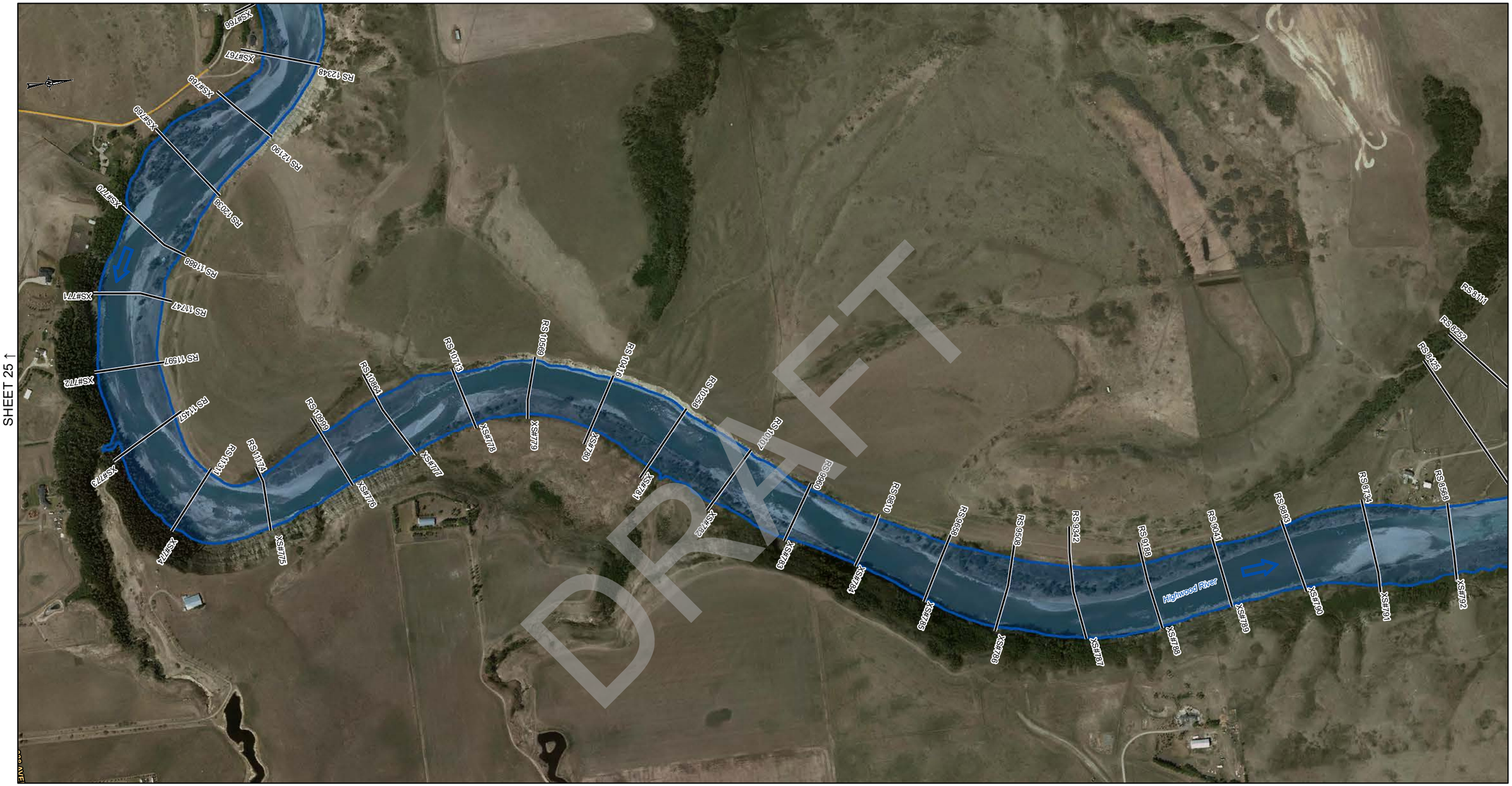
Classification: Public

SHEET 25 ↑

SHEET 27 ↓

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

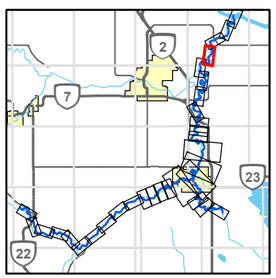
- CULVERT
- WEIR
- BRIDGE

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



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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 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 ↓



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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

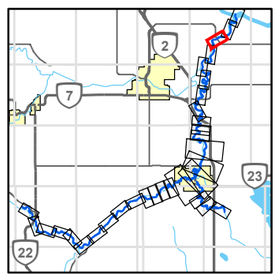
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

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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

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25mm

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PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Production\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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
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- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

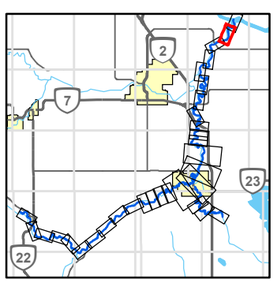
- CULVERT
- WEIR
- BRIDGE

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



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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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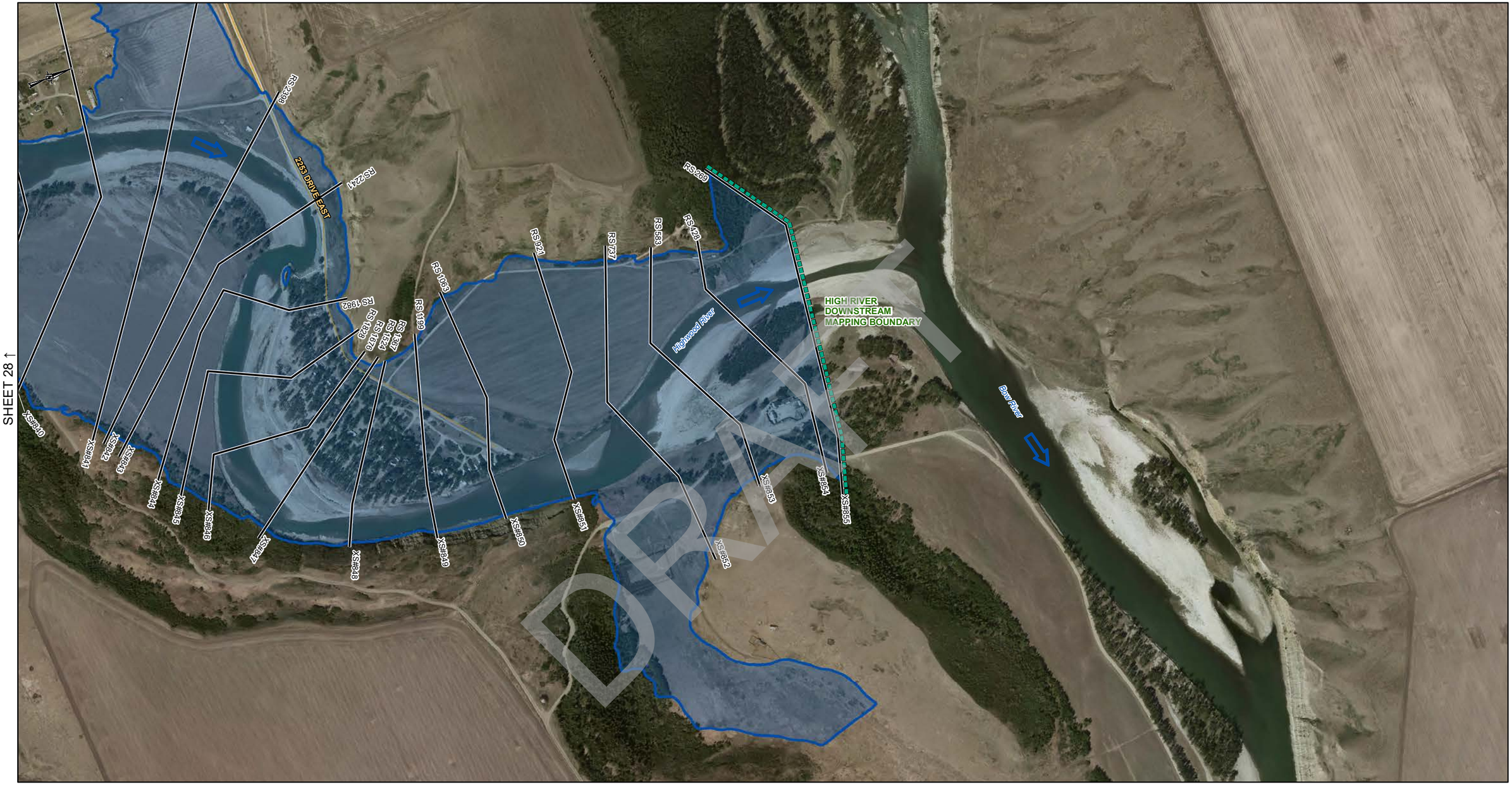
Classification: Public

SHEET 28 ↑



LEGEND

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

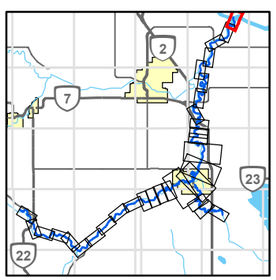
HYDRAULIC STRUCTURES

- 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 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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25mm 0

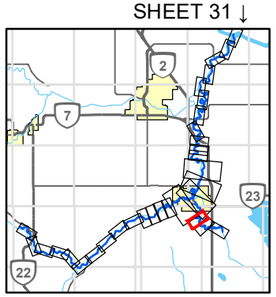
Classification: Public

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

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

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
750 YEAR INUNDATION EXTENT

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

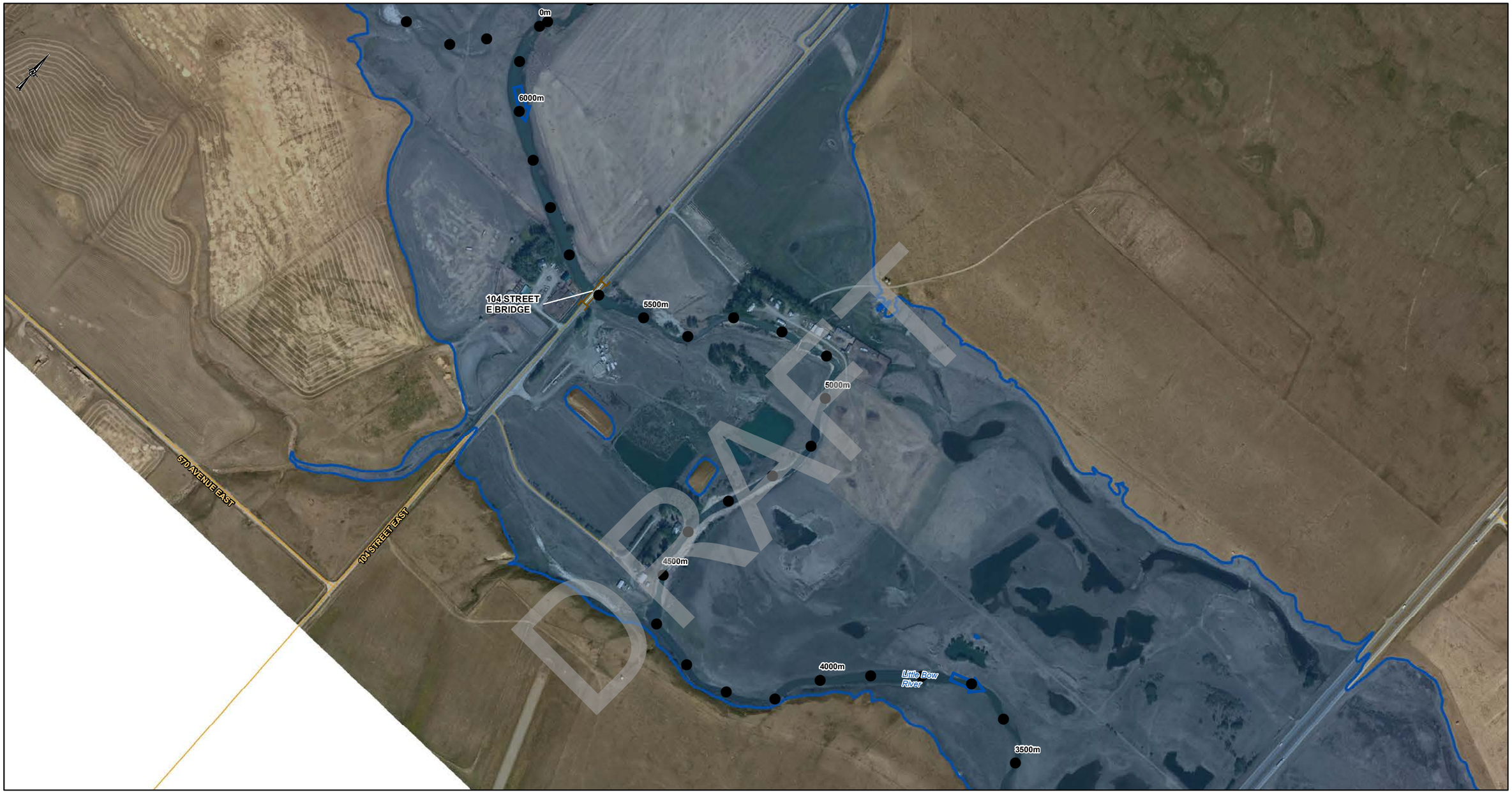
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

25mm

Classification: Public

SHEET 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

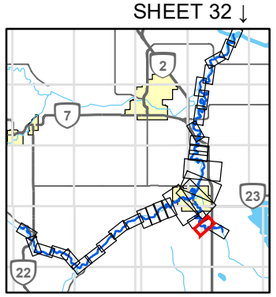
750-YEAR FLOOD INUNDATION EXTENT

- 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

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
750 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

25mm

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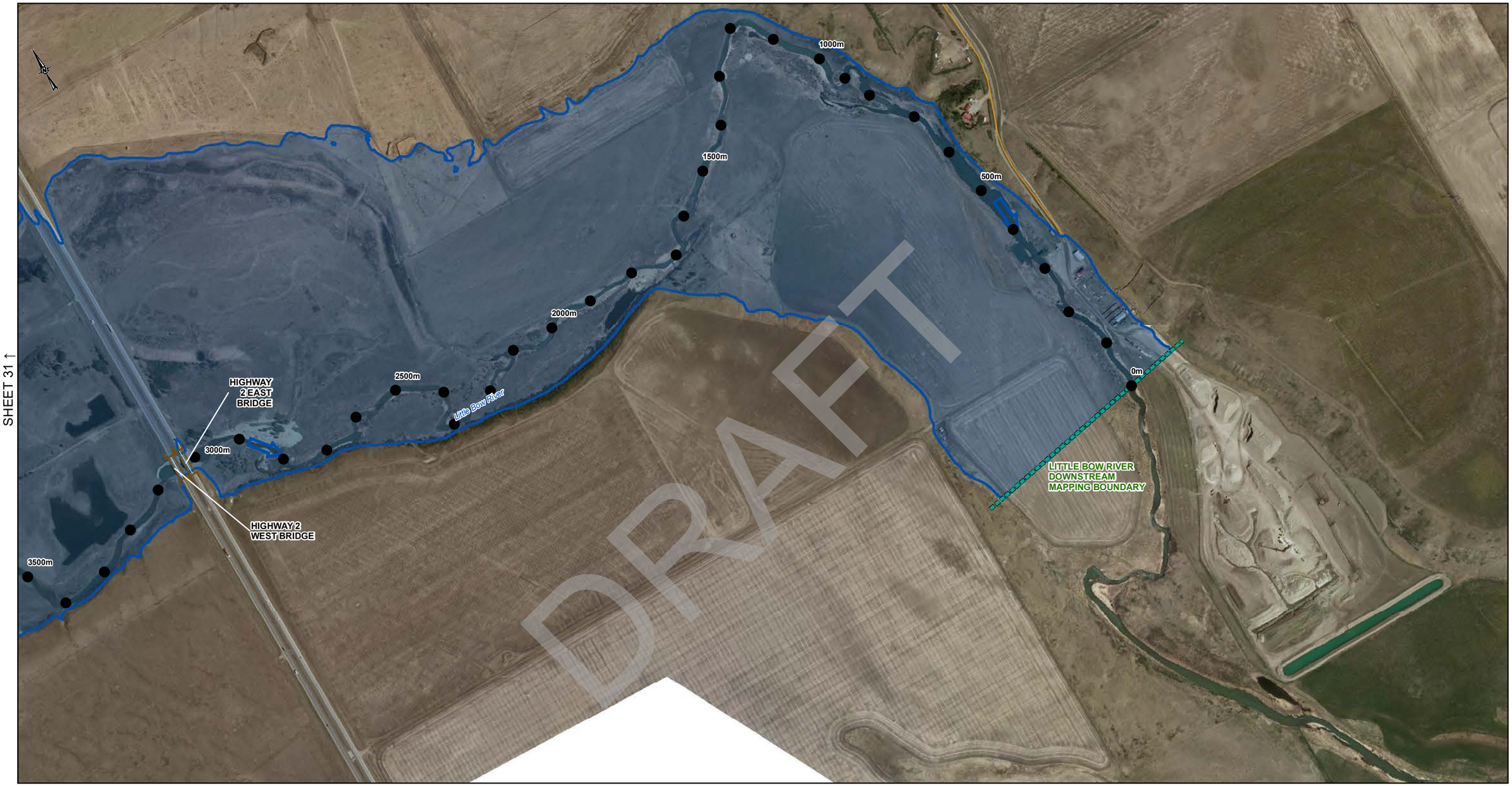
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_0750y-Inundation_Rev0.mxd

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

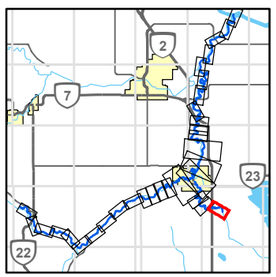
HYDRAULIC STRUCTURES

- 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
DESIGNED	PT
PREPARED	NB
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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 32 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

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

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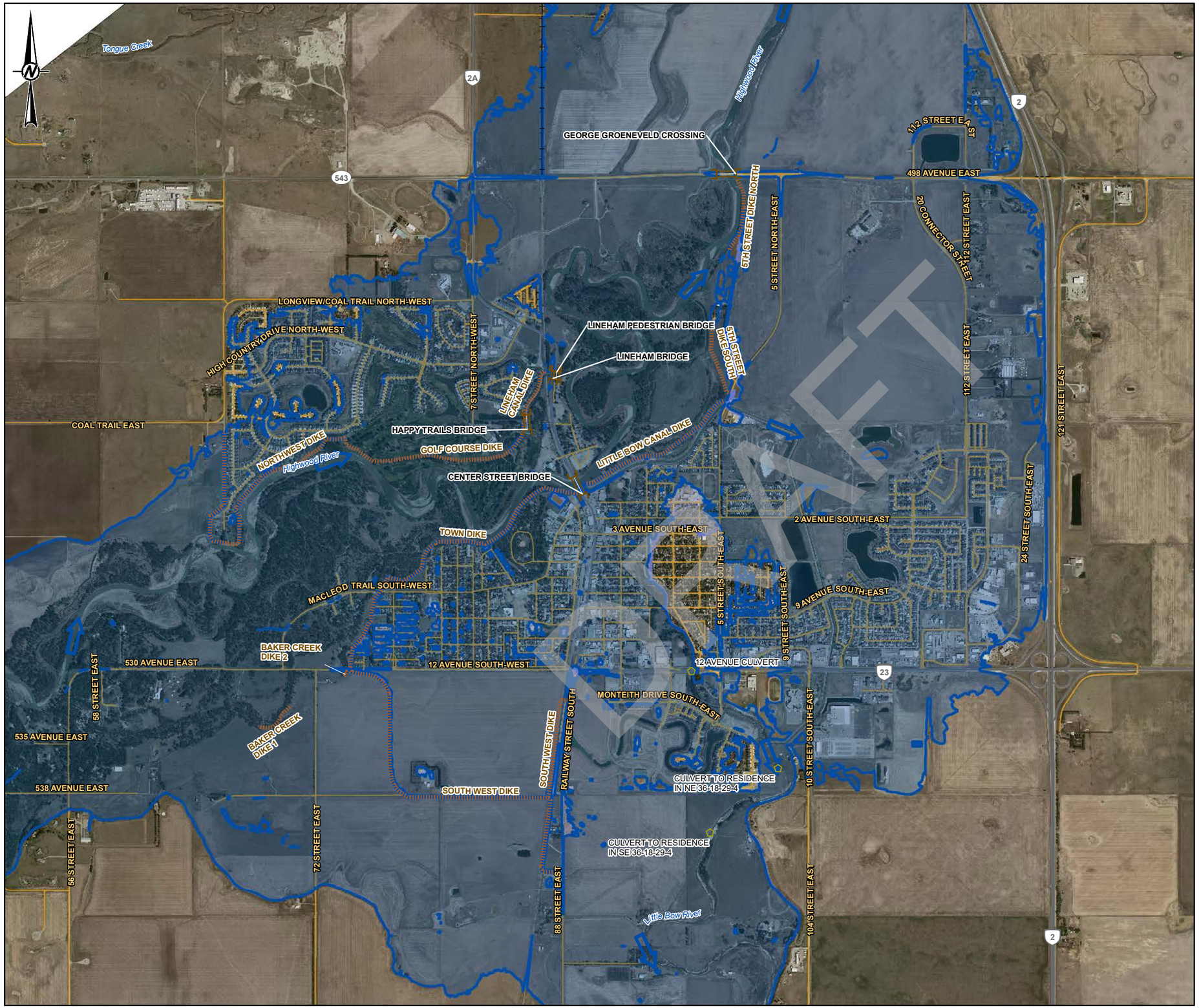
Classification: Public



LEGEND

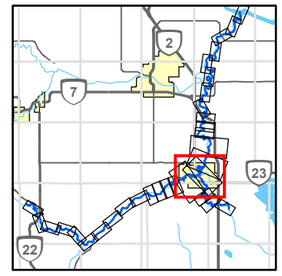
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

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

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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
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

25mm

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Classification: Public

1000-YEAR FLOOD INUNDATION EXTENT

Sheets 1-33

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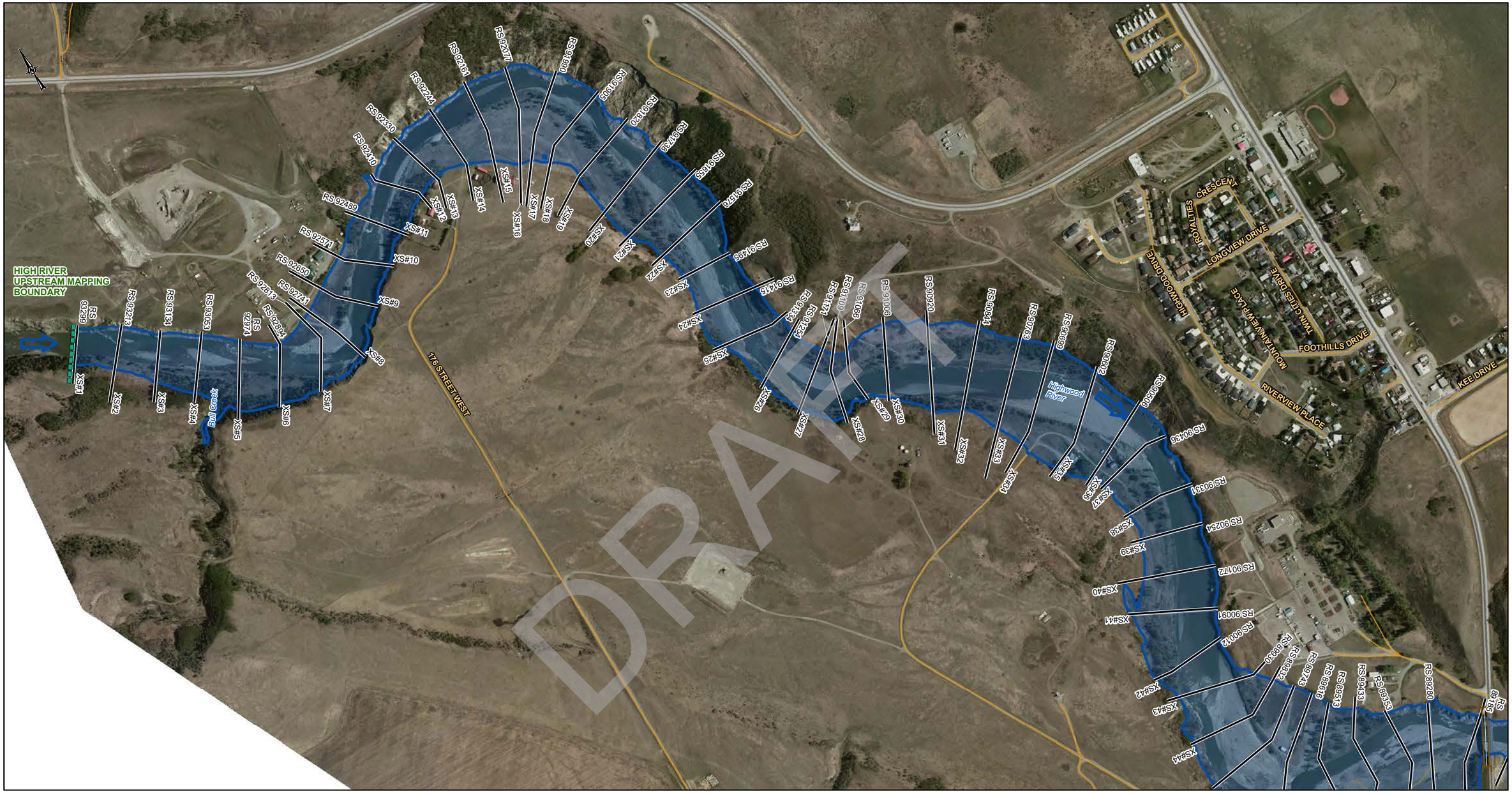


SHEET 2 ↓

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

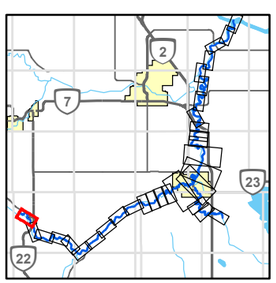
- CULVERT
- WEIR
- BRIDGE

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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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_1000y-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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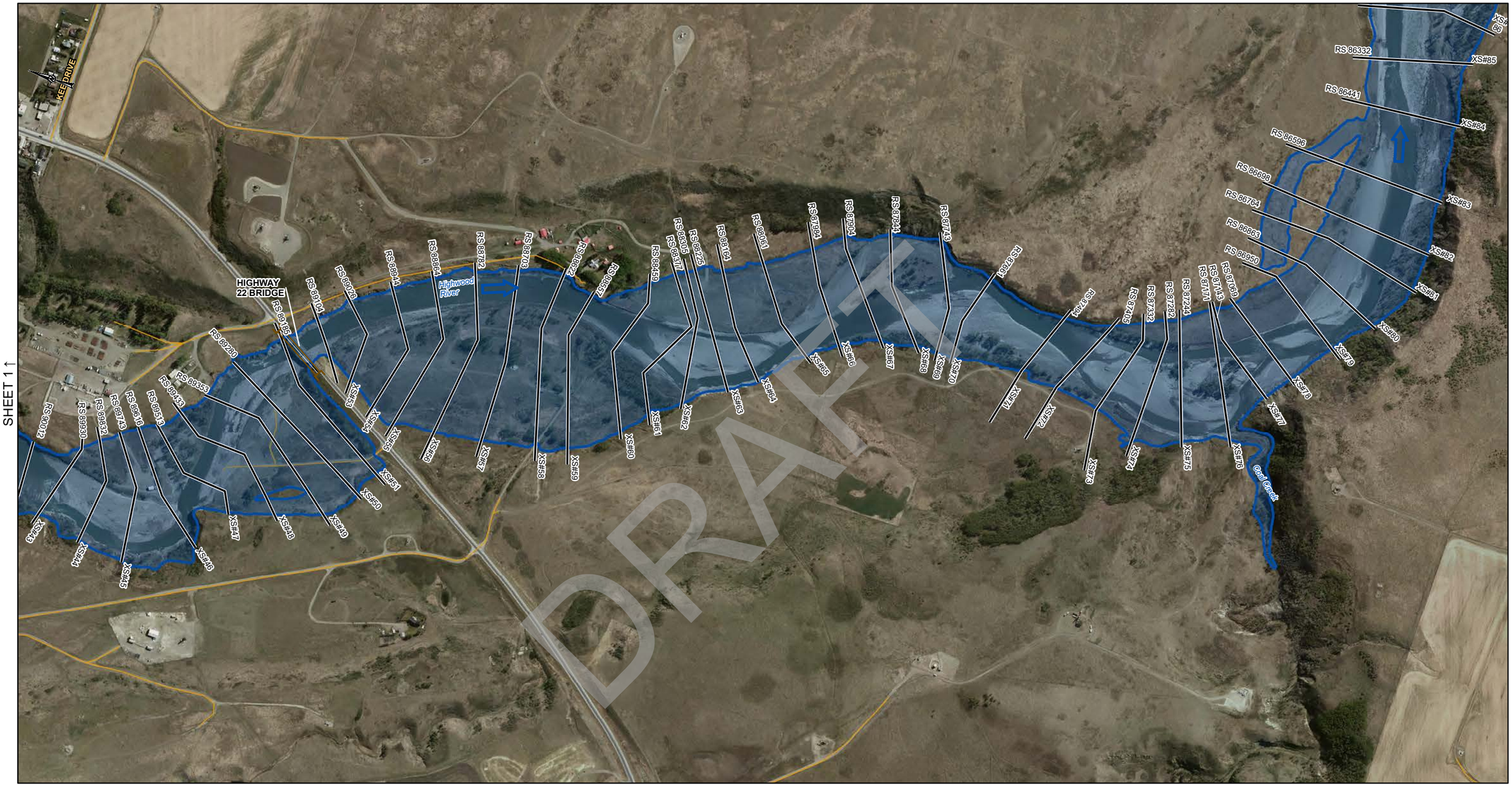
Classification: Public



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

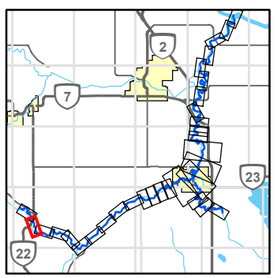
- CULVERT
- WEIR
- BRIDGE

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

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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 2 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

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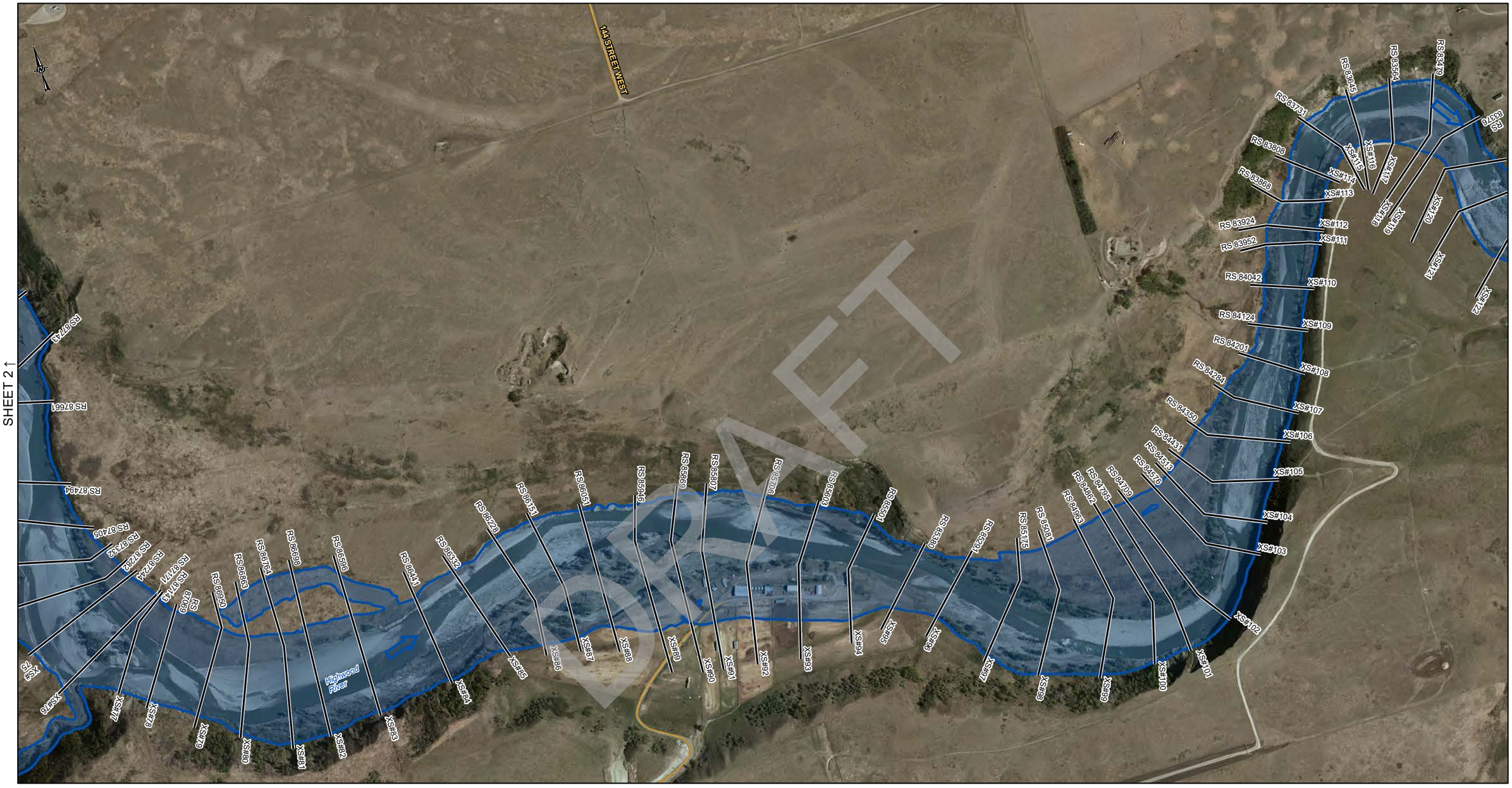
Classification: Public

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

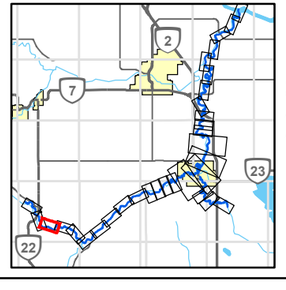
- CULVERT
- WEIR
- BRIDGE

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

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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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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
1000 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_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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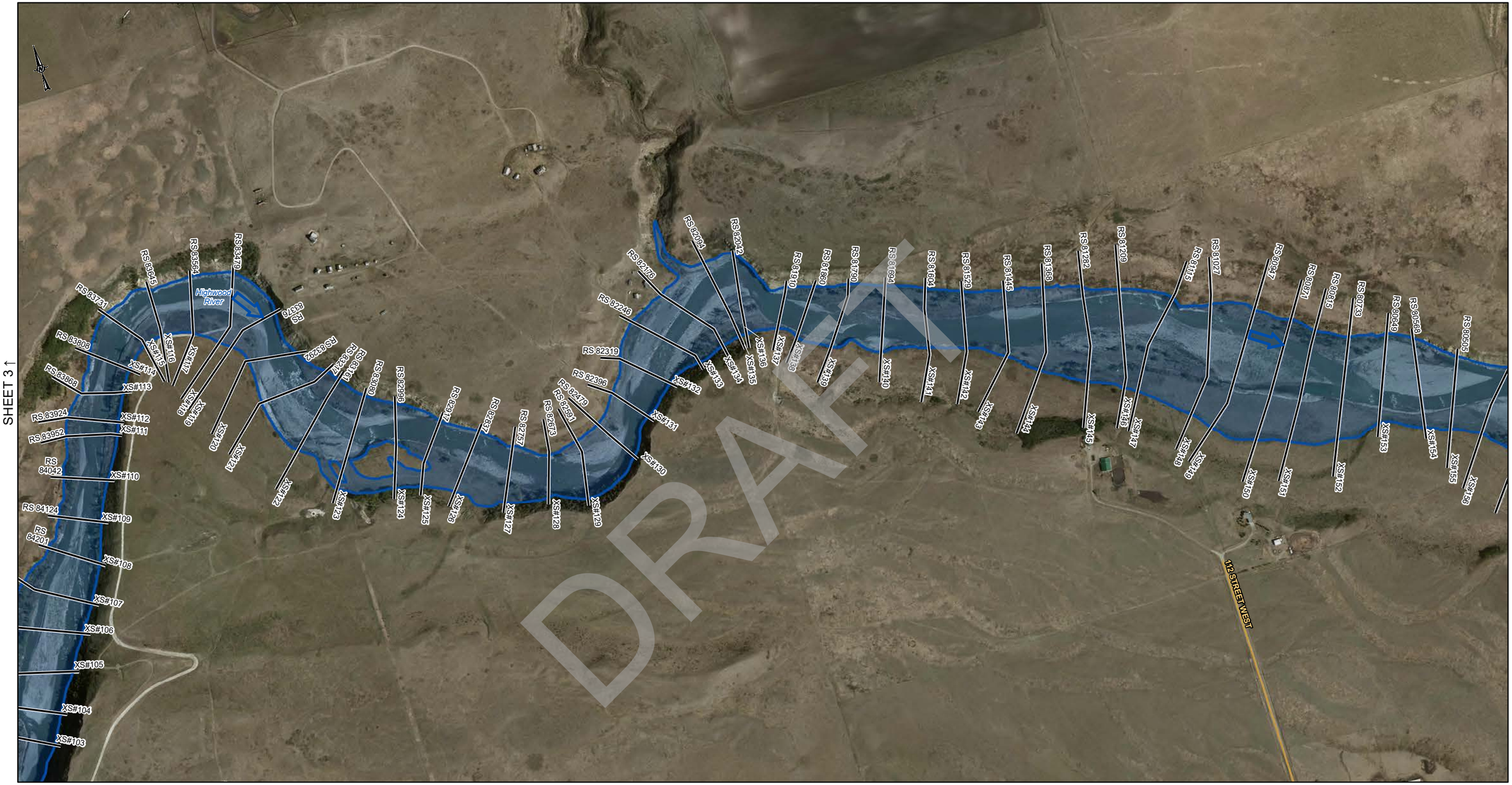
Classification: Public

SHEET 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

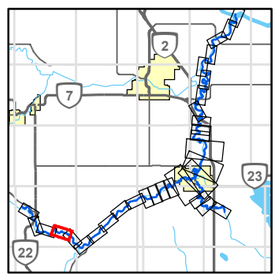
- CULVERT
- WEIR
- BRIDGE

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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ALBERTA ENVIRONMENT AND PARKS

Alberta Government

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
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

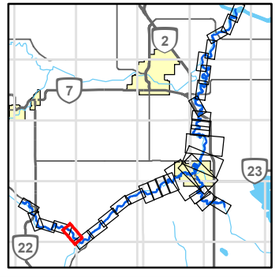
- CULVERT
- WEIR
- BRIDGE

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

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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 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

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

25mm

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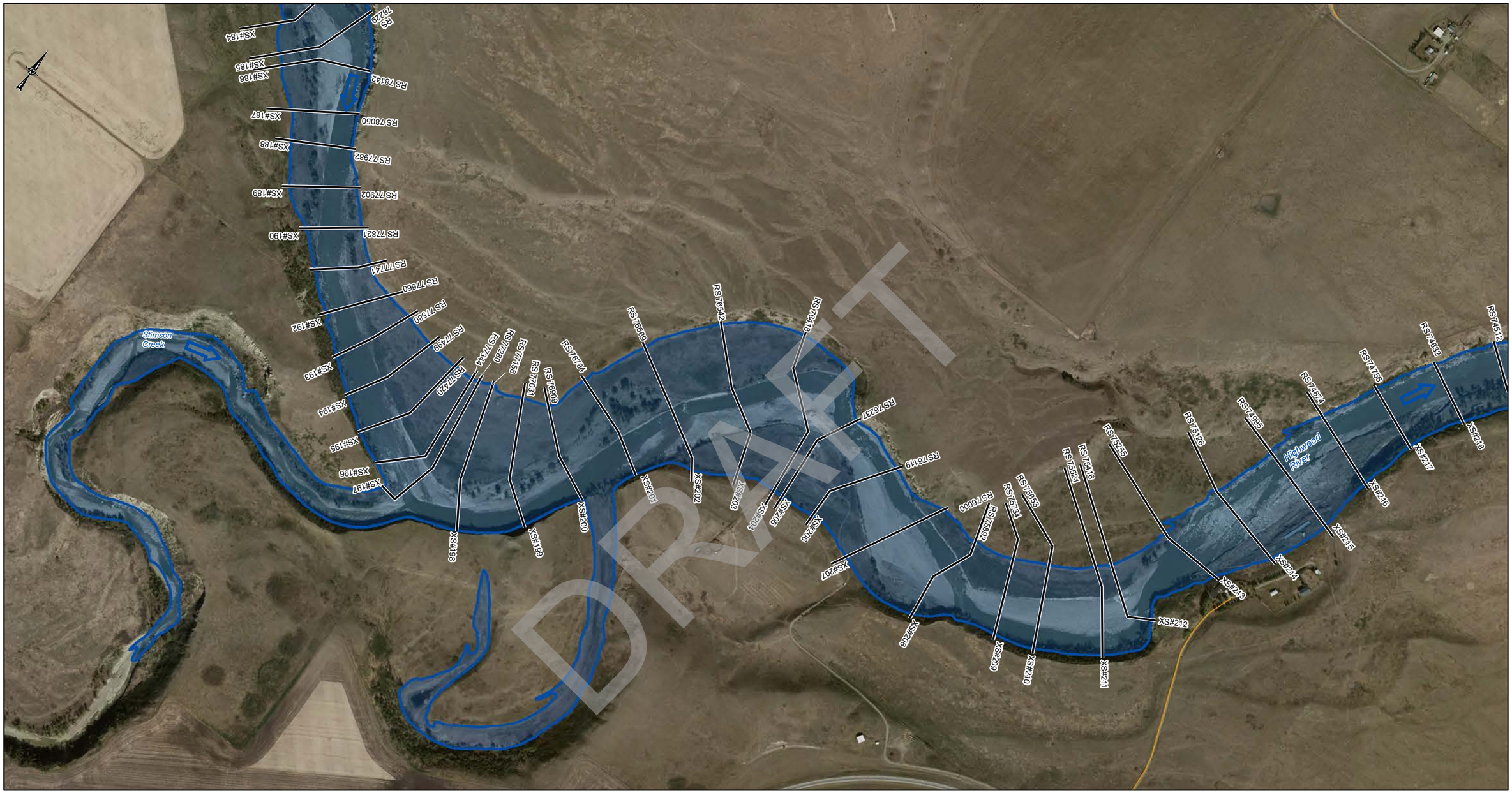
Classification: Public

SHEET 5 ↑



SHEET 7 ↓

LEGEND

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

HYDRAULIC STRUCTURES

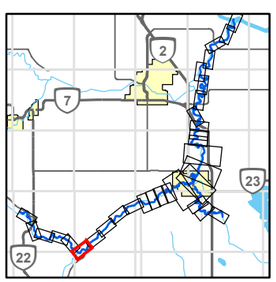
- CULVERT
- WEIR
- BRIDGE

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

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
1000 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

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 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

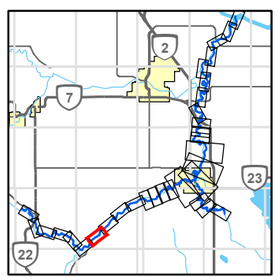
- CULVERT
- WEIR
- BRIDGE

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



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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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25mm

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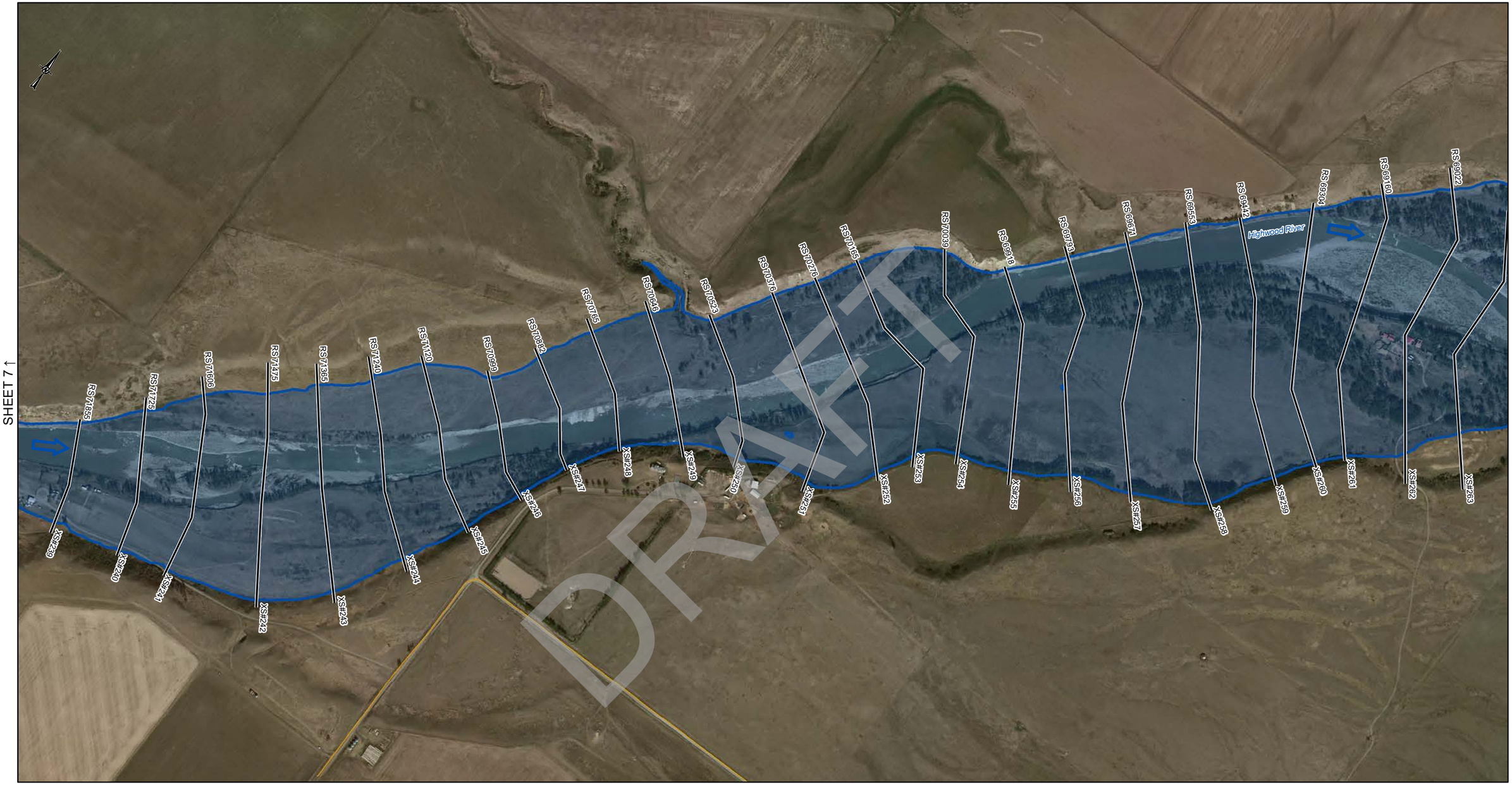
Classification: Public



DRAFT

LEGEND

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

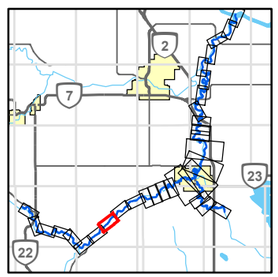
HYDRAULIC STRUCTURES

- 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



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

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

29mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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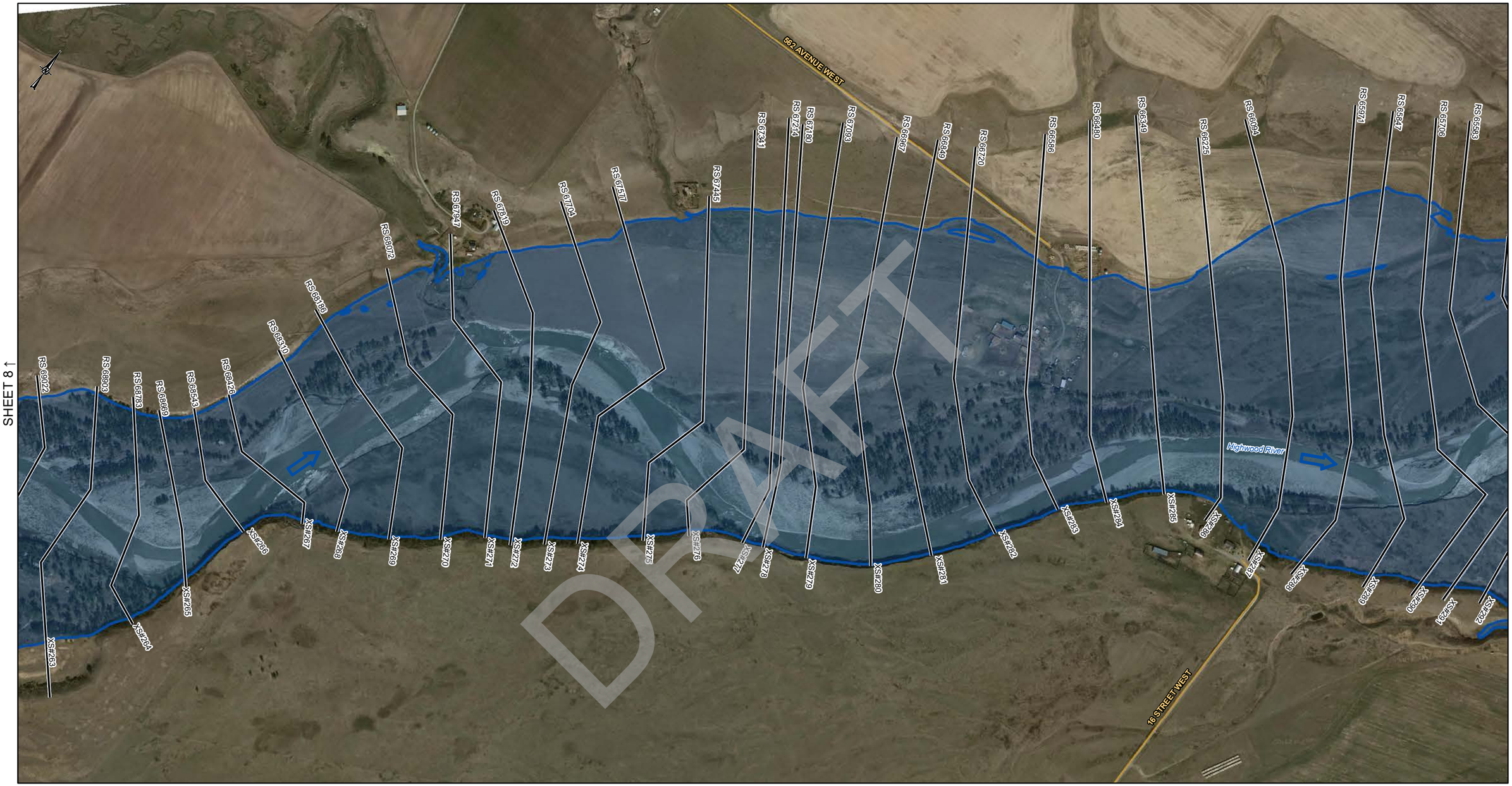
Classification: Public

SHEET 8 ↑

SHEET 10 ↓



DRAFT

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
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- RS 304 RIVER STATION (M)
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HYDRAULIC STRUCTURES

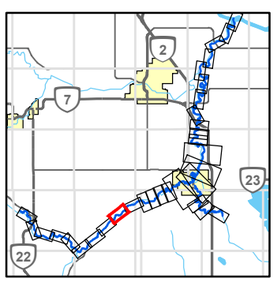
- CULVERT
- WEIR
- BRIDGE

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 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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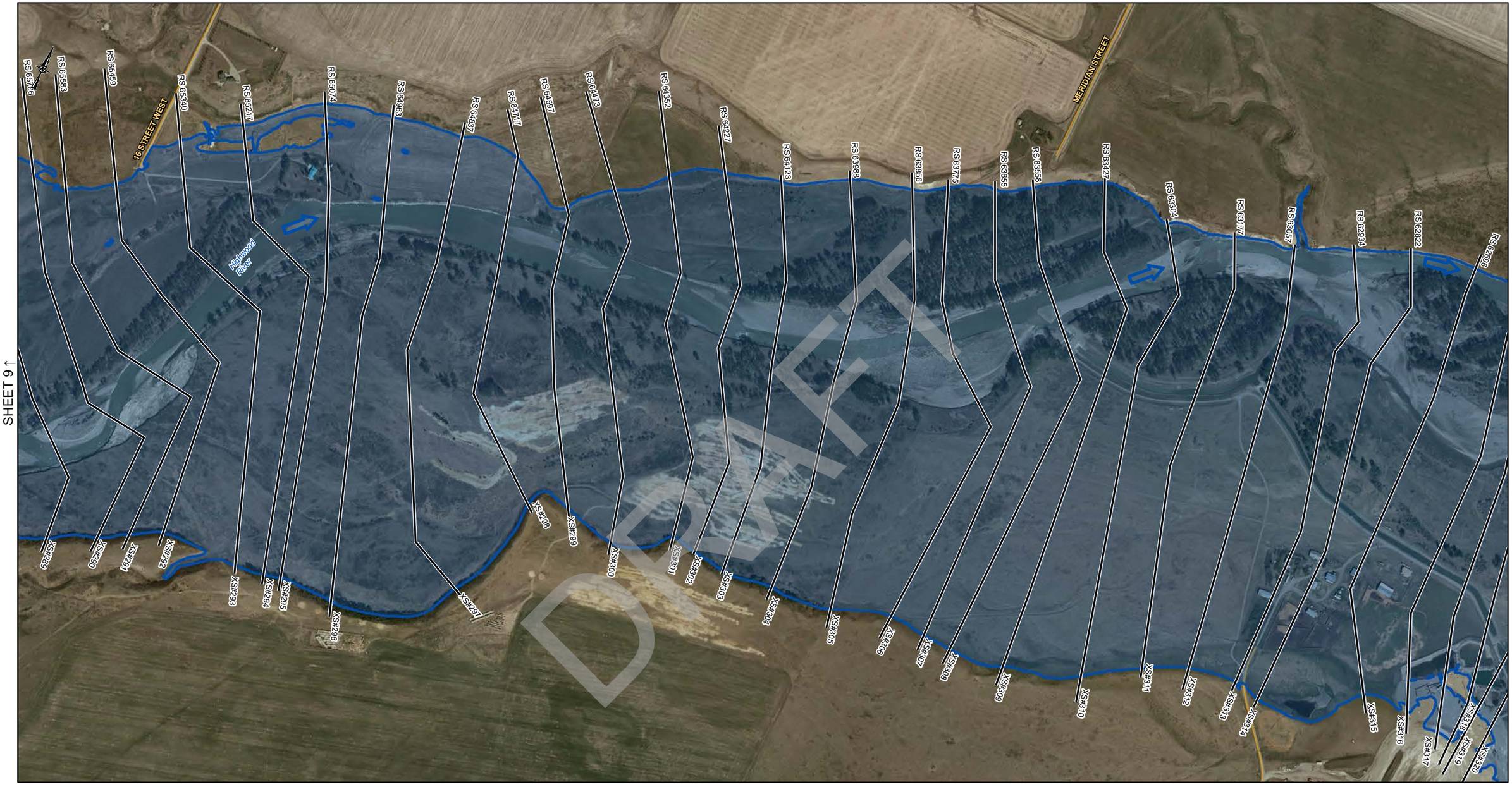
Classification: Public

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

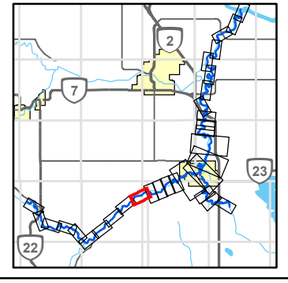
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536969_100yr-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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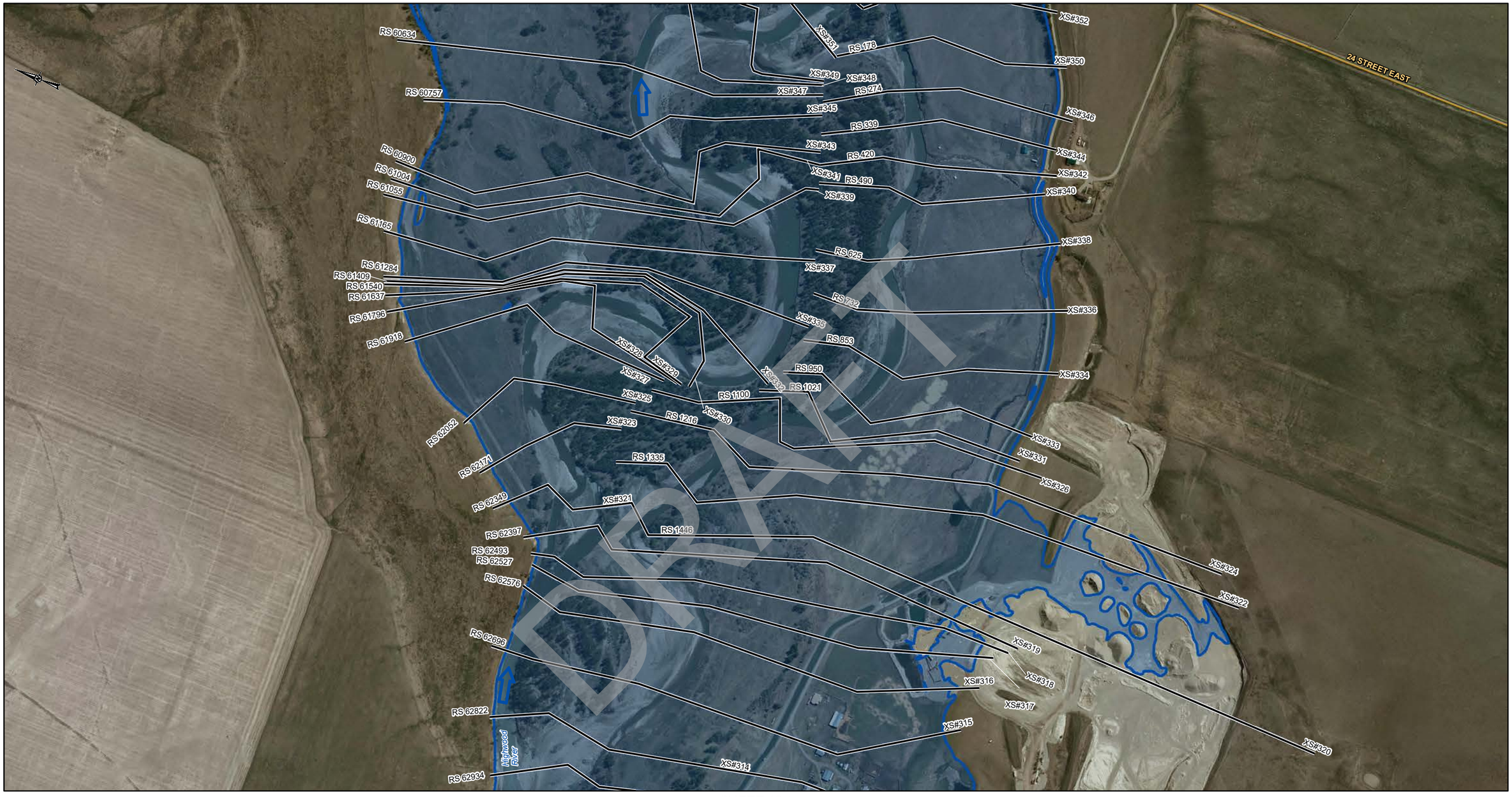
Classification: Public

SHEET 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

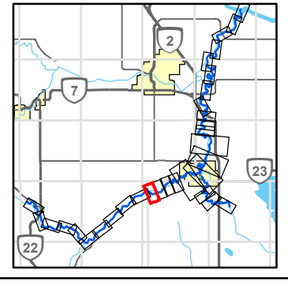
- CULVERT
- WEIR
- BRIDGE

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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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 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_1000y-Inundation_Rev0.mxd

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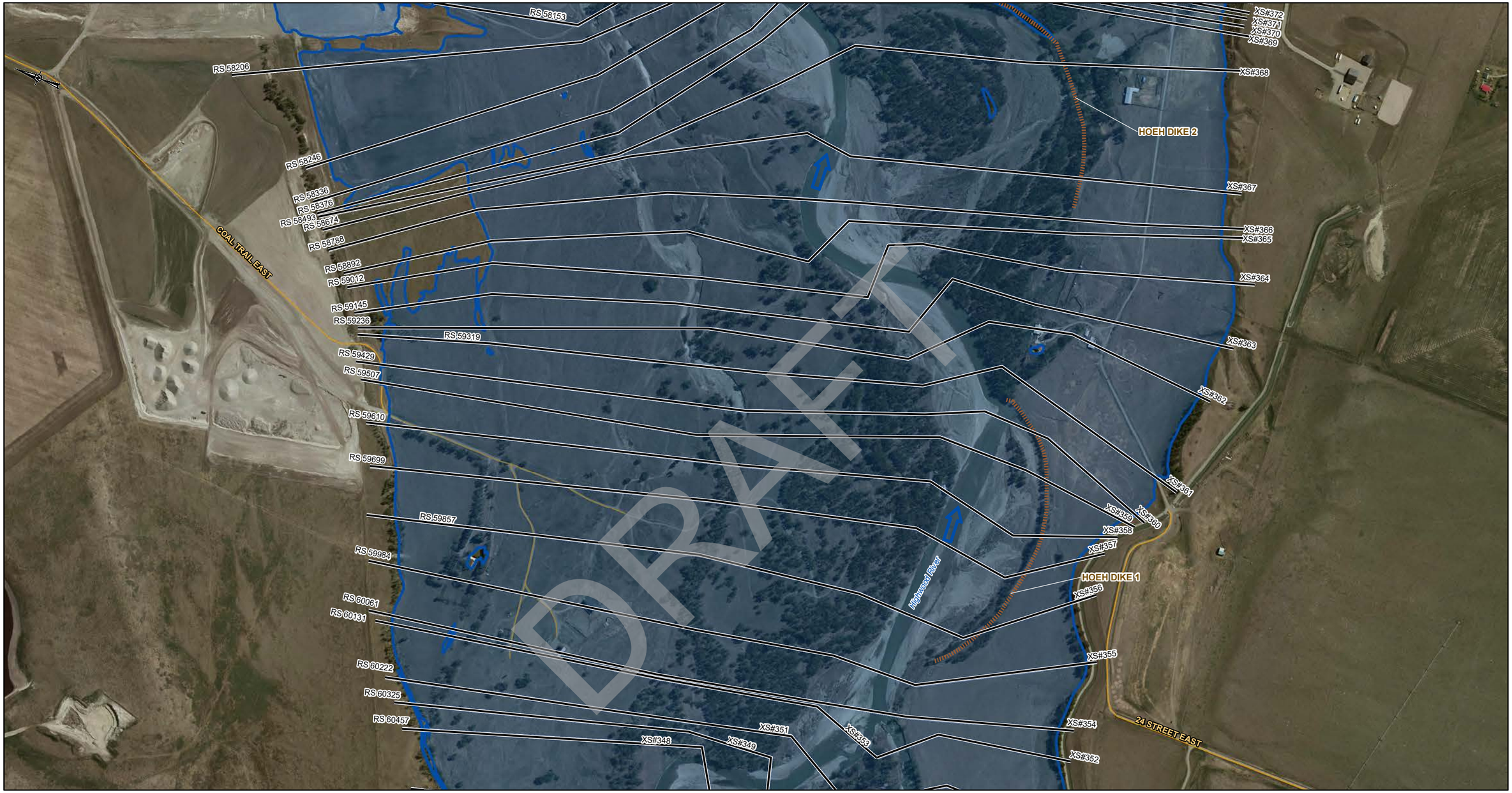
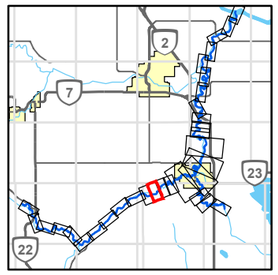
25mm

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

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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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

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25mm

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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)
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1000-YEAR FLOOD INUNDATION EXTENT

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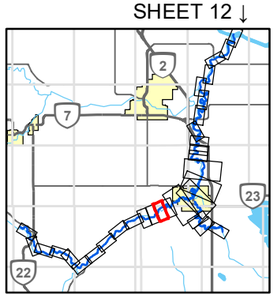
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



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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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

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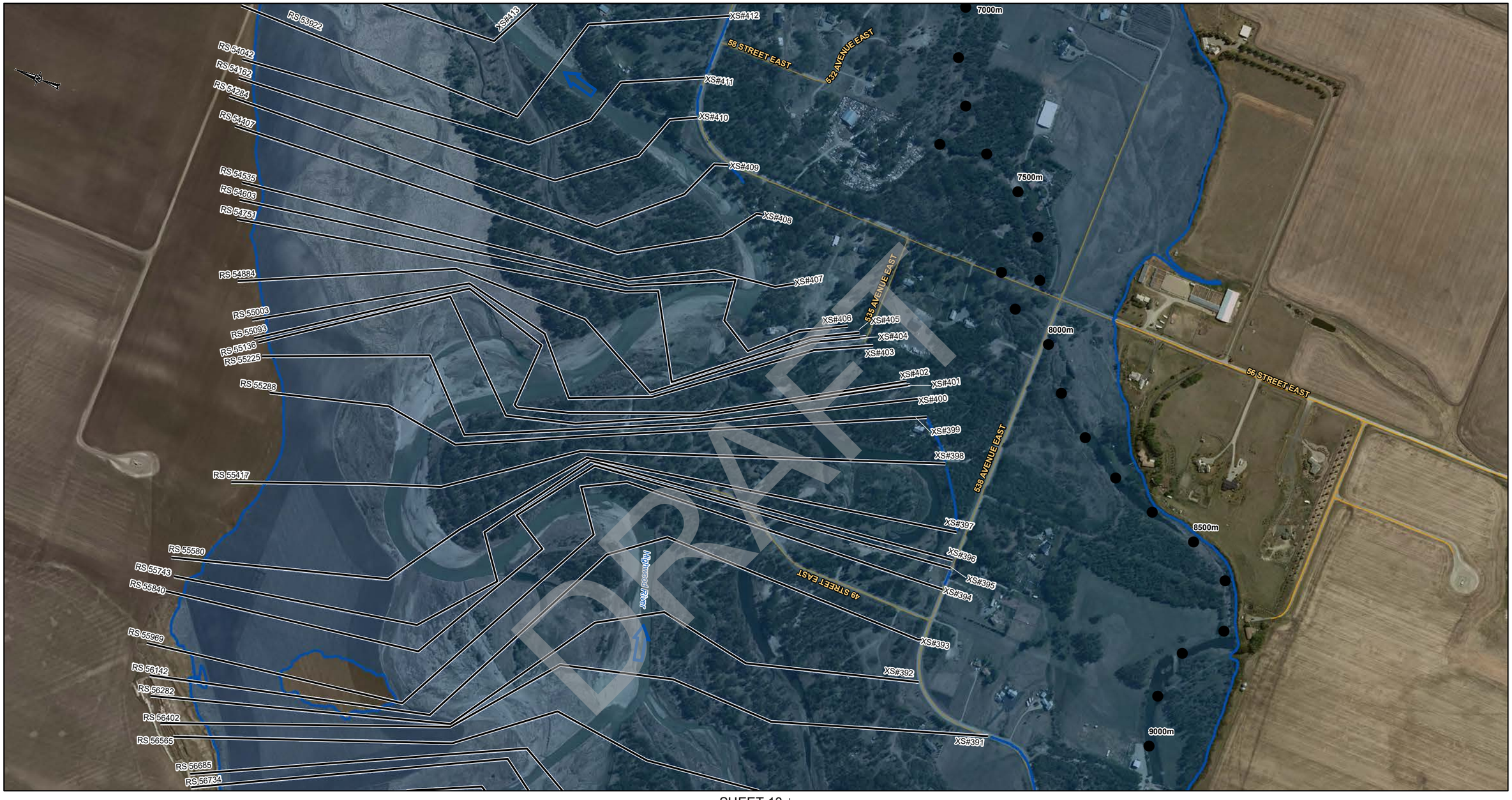
25mm

0

Classification: Public

SHEET 15 ↑



SHEET 13 ↓

LEGEND

- 2D DOMAIN PROFILE STATION
- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
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HYDRAULIC STRUCTURES

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1000-YEAR FLOOD INUNDATION EXTENT

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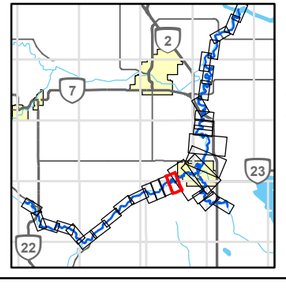
DESIGN DISCHARGE

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

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0 25mm

Classification: Public

SHEET 16 ↑

SHEET 30 ↓

SHEET 14 ↓



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LEGEND

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HYDRAULIC STRUCTURES

- CULVERT
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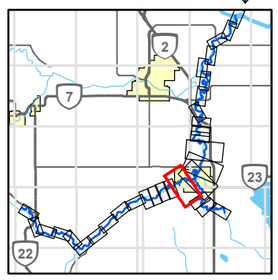
1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF STIMSON CREEK = 6160 M^3/S



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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT

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

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25mm

0

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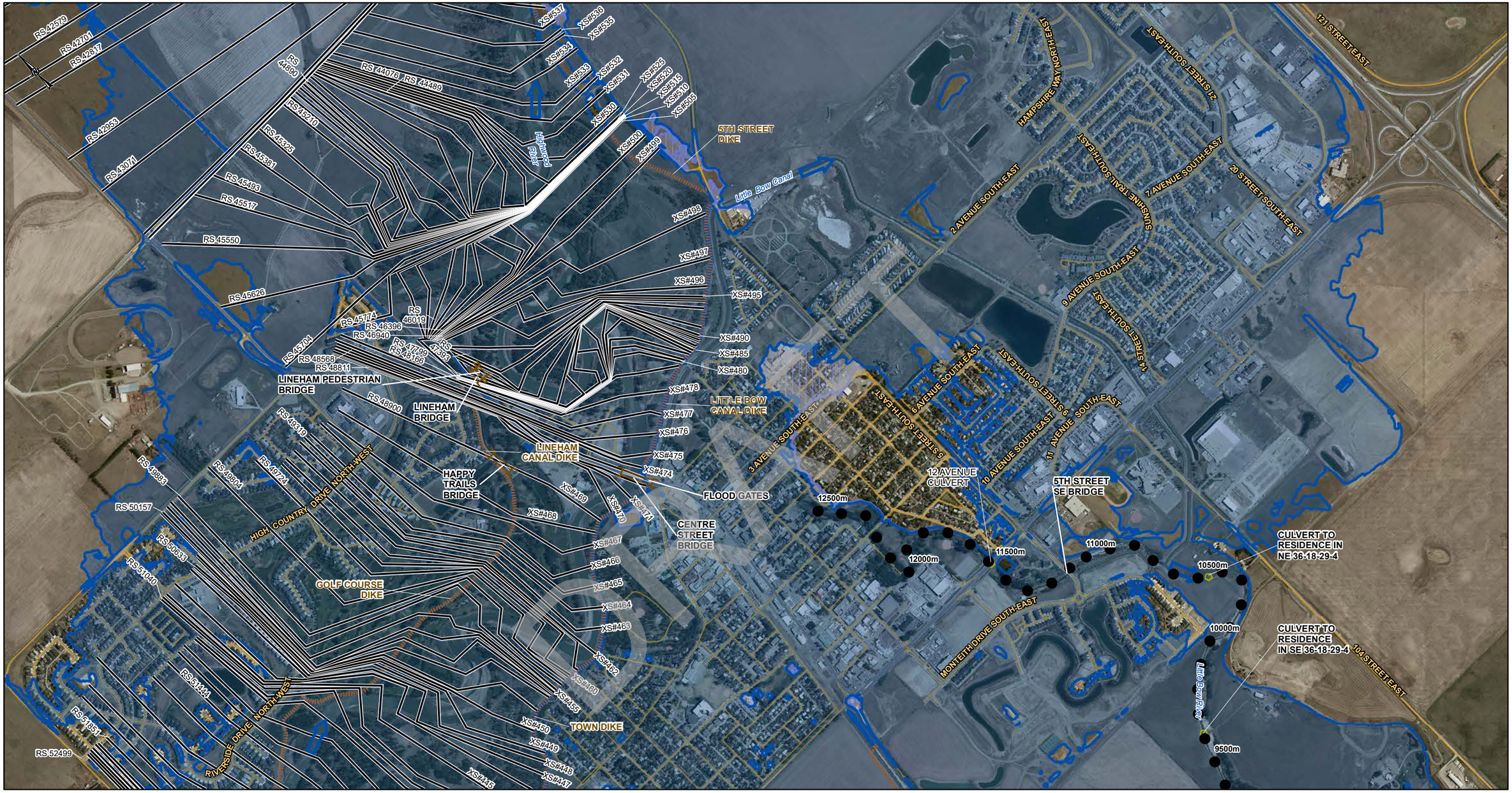
Classification: Public

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

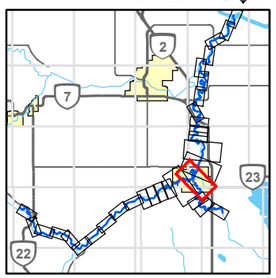
1000-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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
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

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000yr-Inundation_Rev0.mxd

Classification: Public

SHEET 18 ↑


RS 40551
RS 40792
RS 40814
RS 41034
RS 41274
RS 41514
RS 41635
RS 41751
RS 41873
RS 41981
RS 42105
RS 42224
RS 42343
RS 42461
RS 42579
RS 42701
RS 42817
RS 42953
RS 43071
RS 43189
RS 43307
RS 43425
RS 43543
RS 43661
RS 43779
RS 43897
RS 44015
RS 44133
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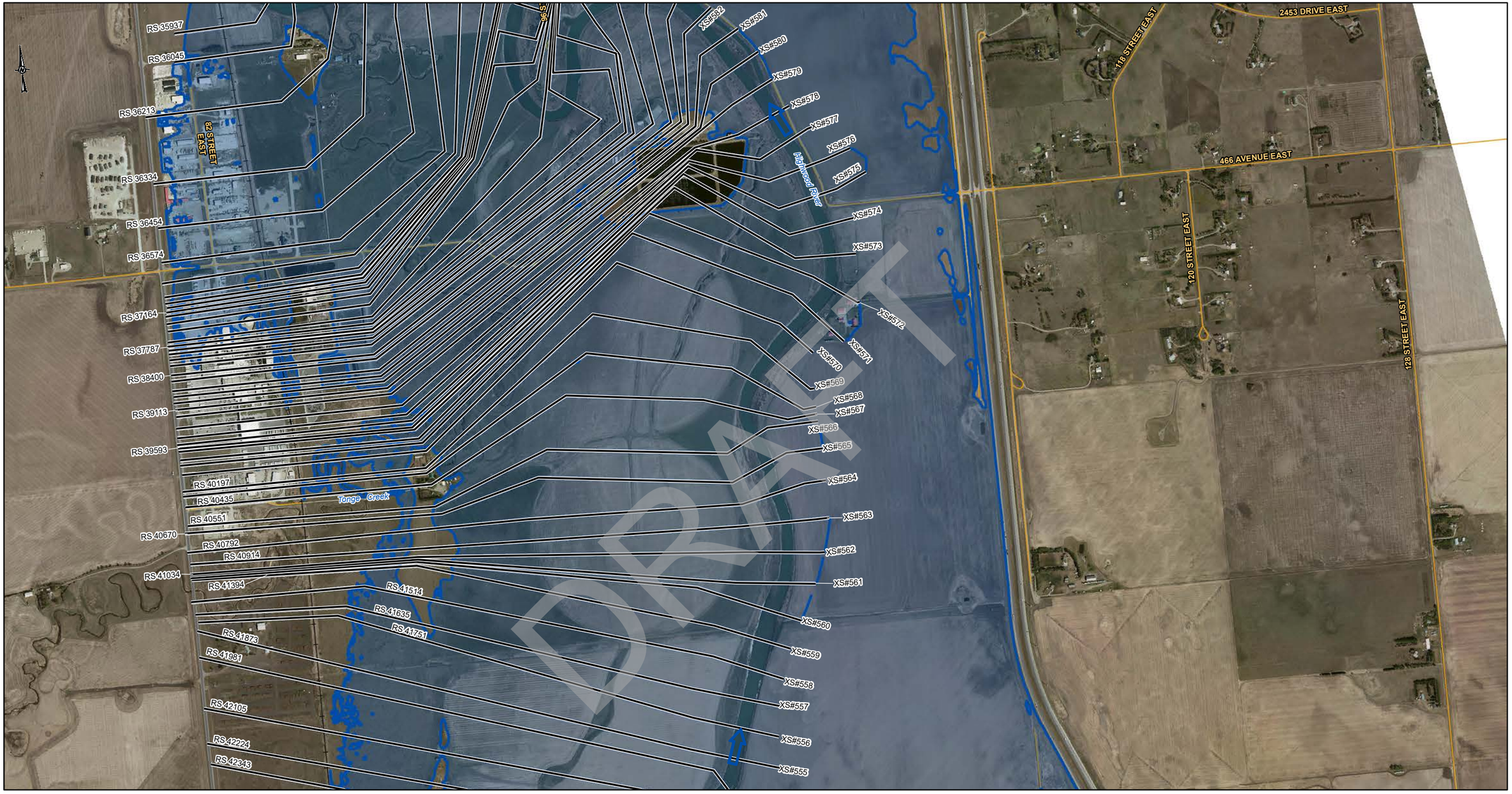
RS 44487
RS 44605
RS 44723
RS 44841
RS 44959
RS 45077
RS 45195
RS

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

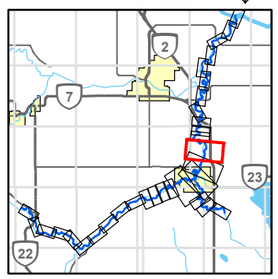
1000-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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 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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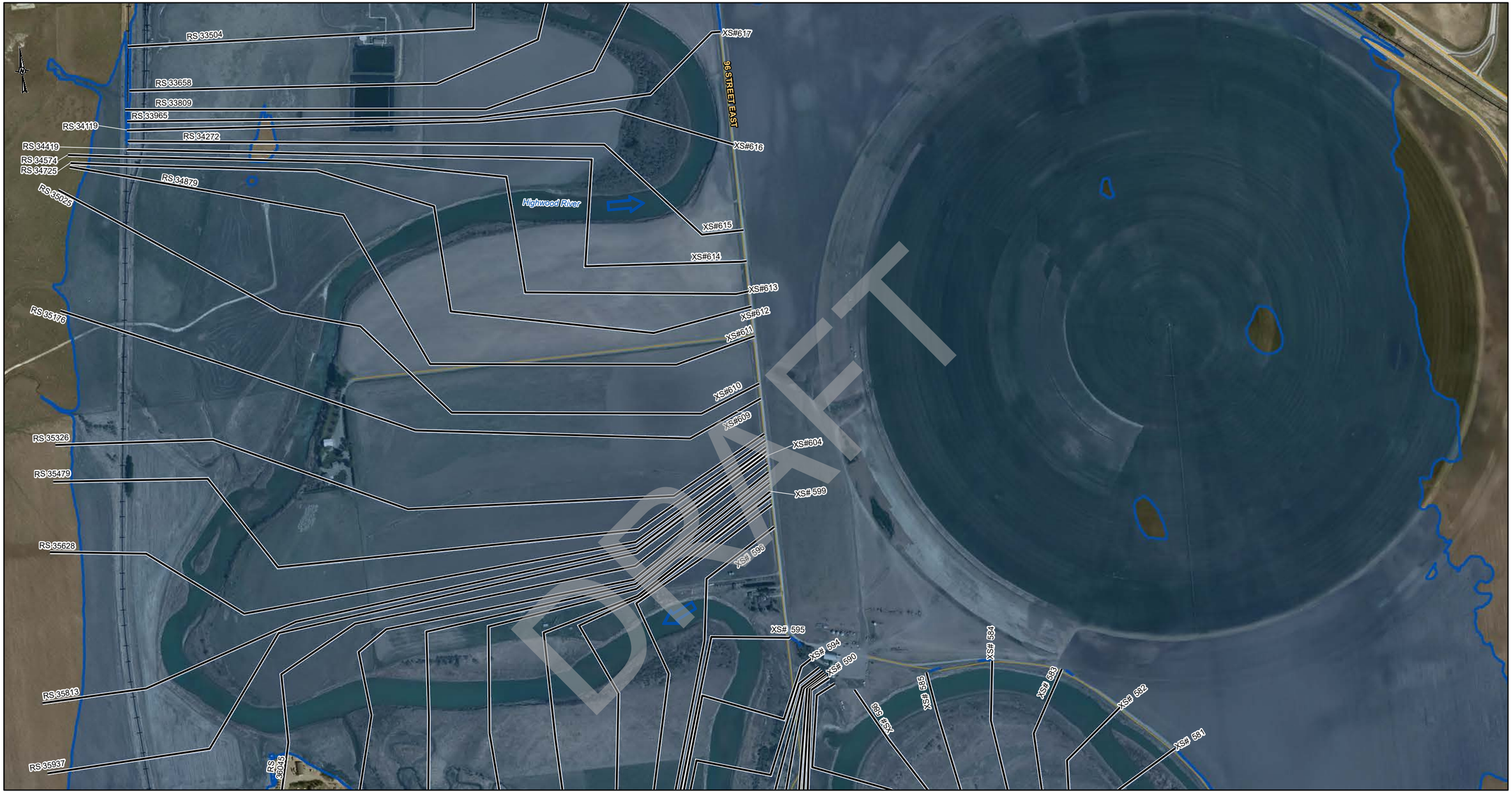
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576 Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

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

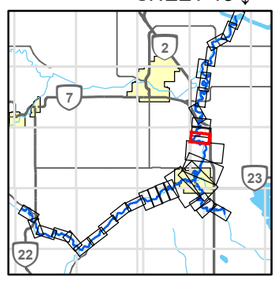
1000-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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1:7500 METRES

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ALBERTA ENVIRONMENT AND PARKS

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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
1000 YEAR INUNDATION EXTENT

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

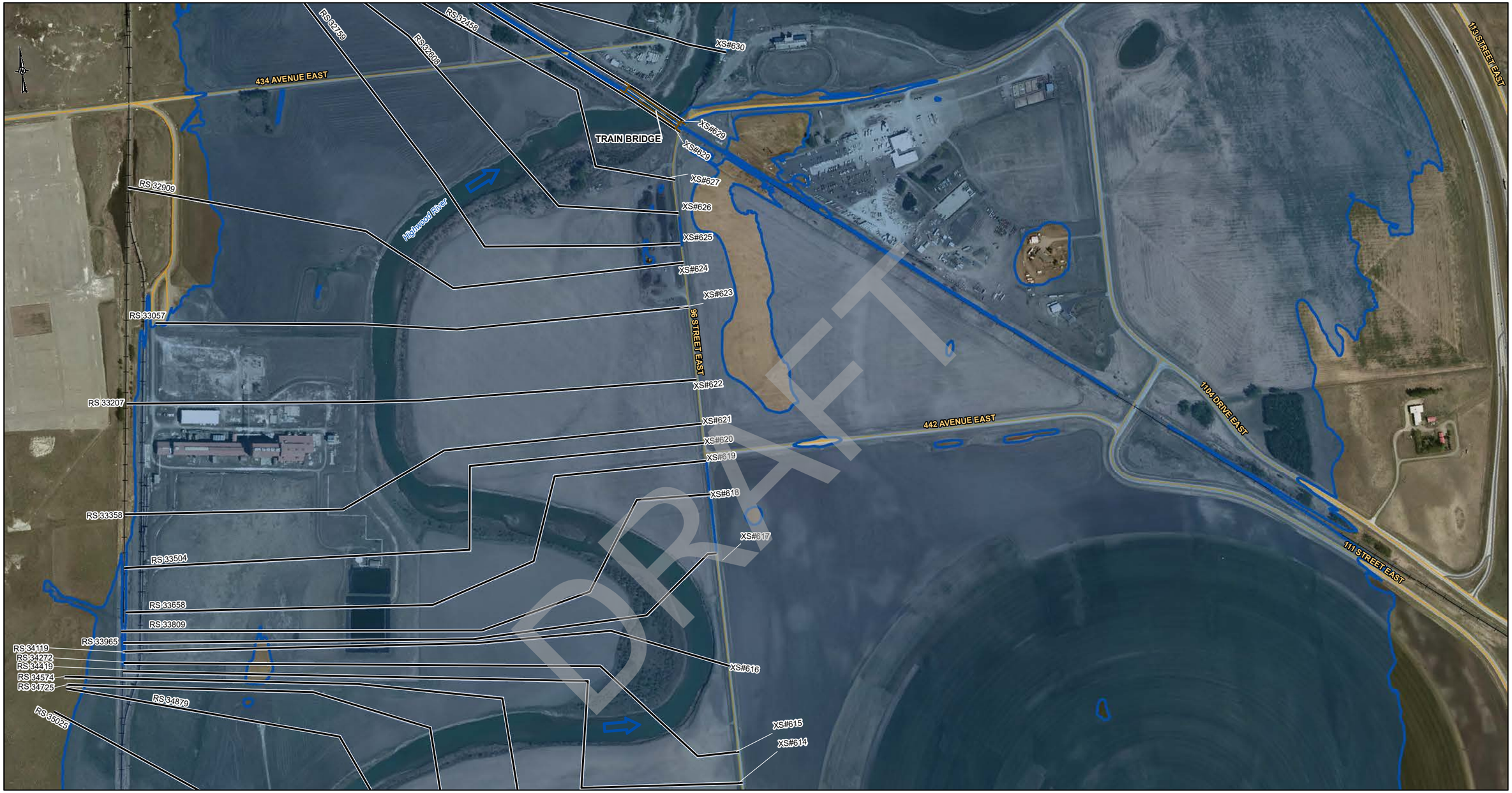
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_1000y-Inundation_Rev0.mxd

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

25mm 0

Classification: Public

SHEET 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

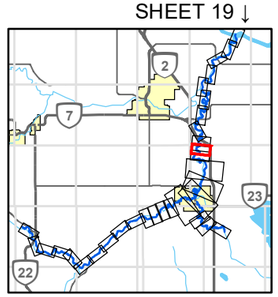
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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

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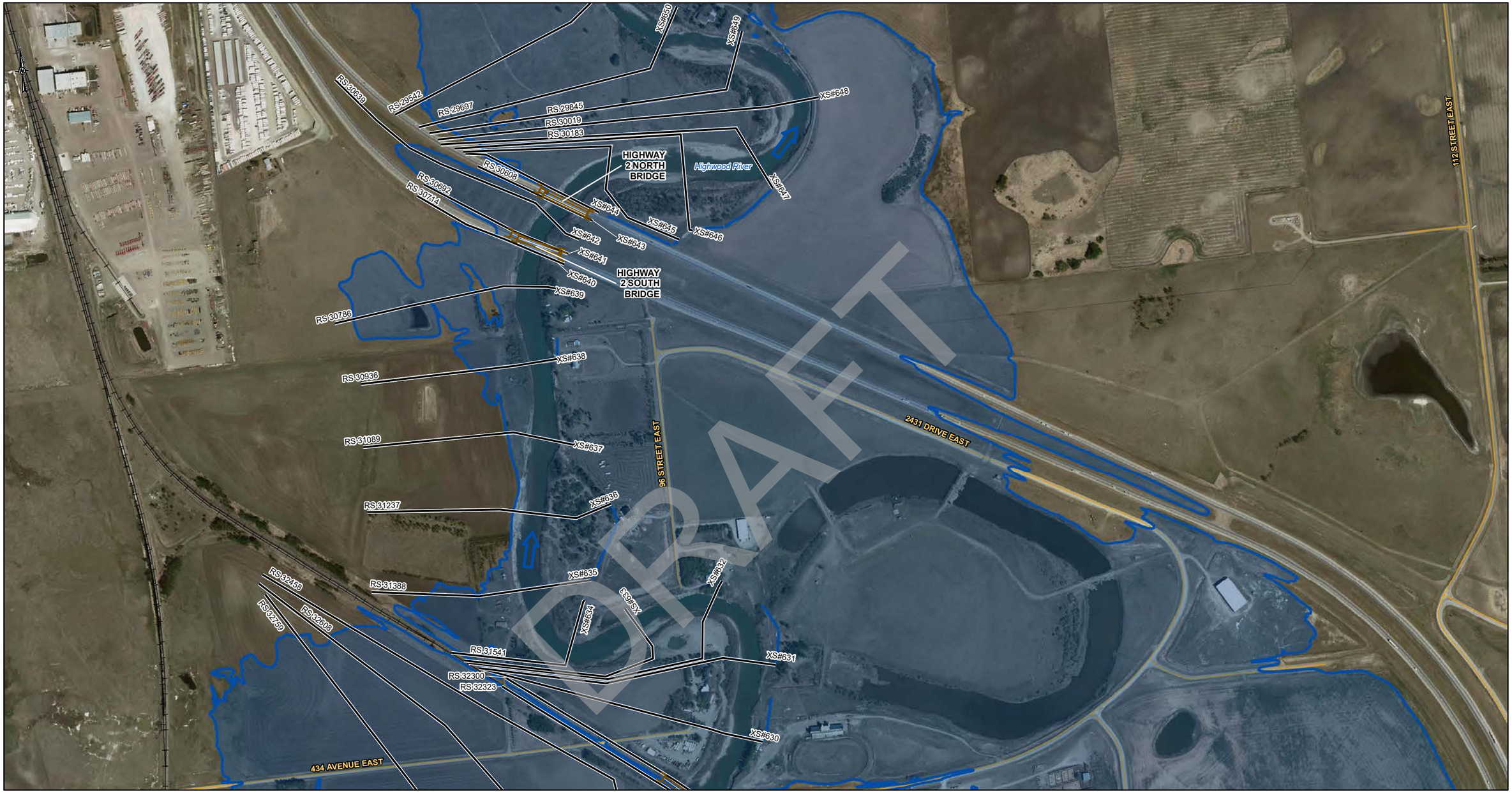
Classification: Public

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

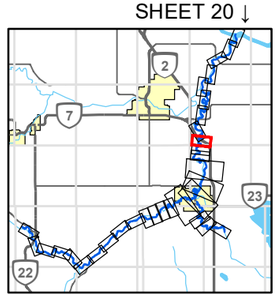
- CULVERT
- WEIR
- BRIDGE

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 ↓



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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
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
0
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

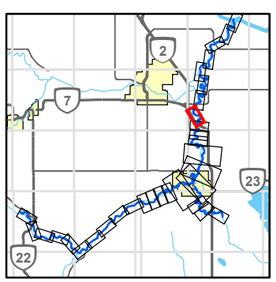
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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Alberta Government

CONSULTANT

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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

1000 YEAR INUNDATION EXTENT

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

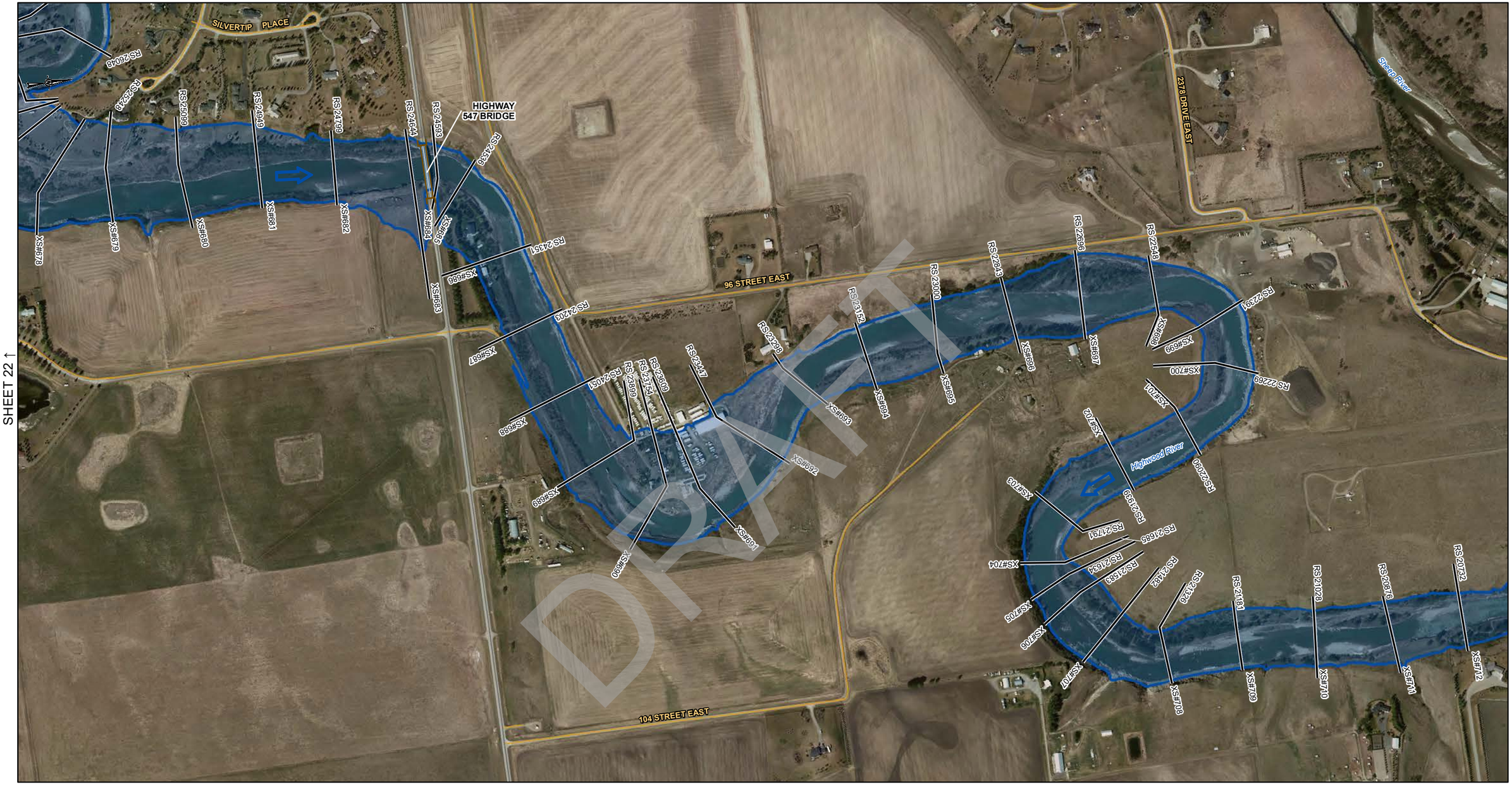
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

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

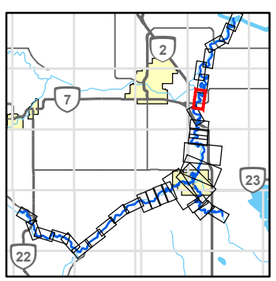
- CULVERT
- WEIR
- BRIDGE

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



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YYYY-MM-DD	2022-03-31
DESIGNED	PT
PREPARED	NB
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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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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_100y-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

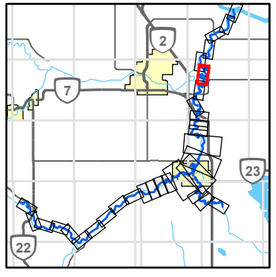
- CULVERT
- WEIR
- BRIDGE

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



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ALBERTA ENVIRONMENT AND PARKS

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CONSULTANT
GOLDER
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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
1000 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_1000y-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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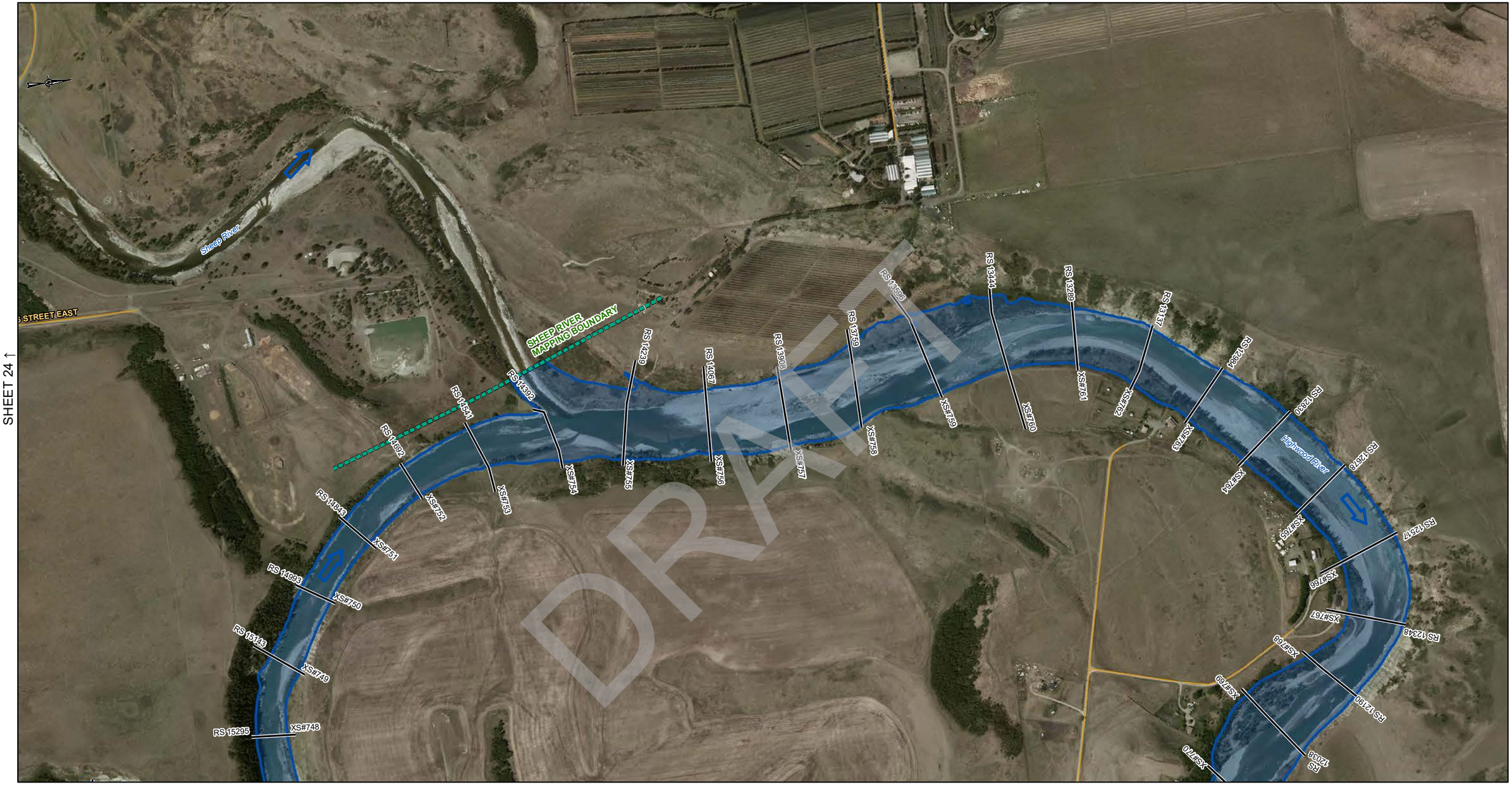
Classification: Public

SHEET 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

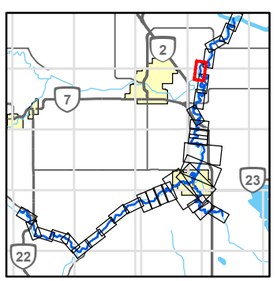
- CULVERT
- WEIR
- BRIDGE

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 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 25 of 33

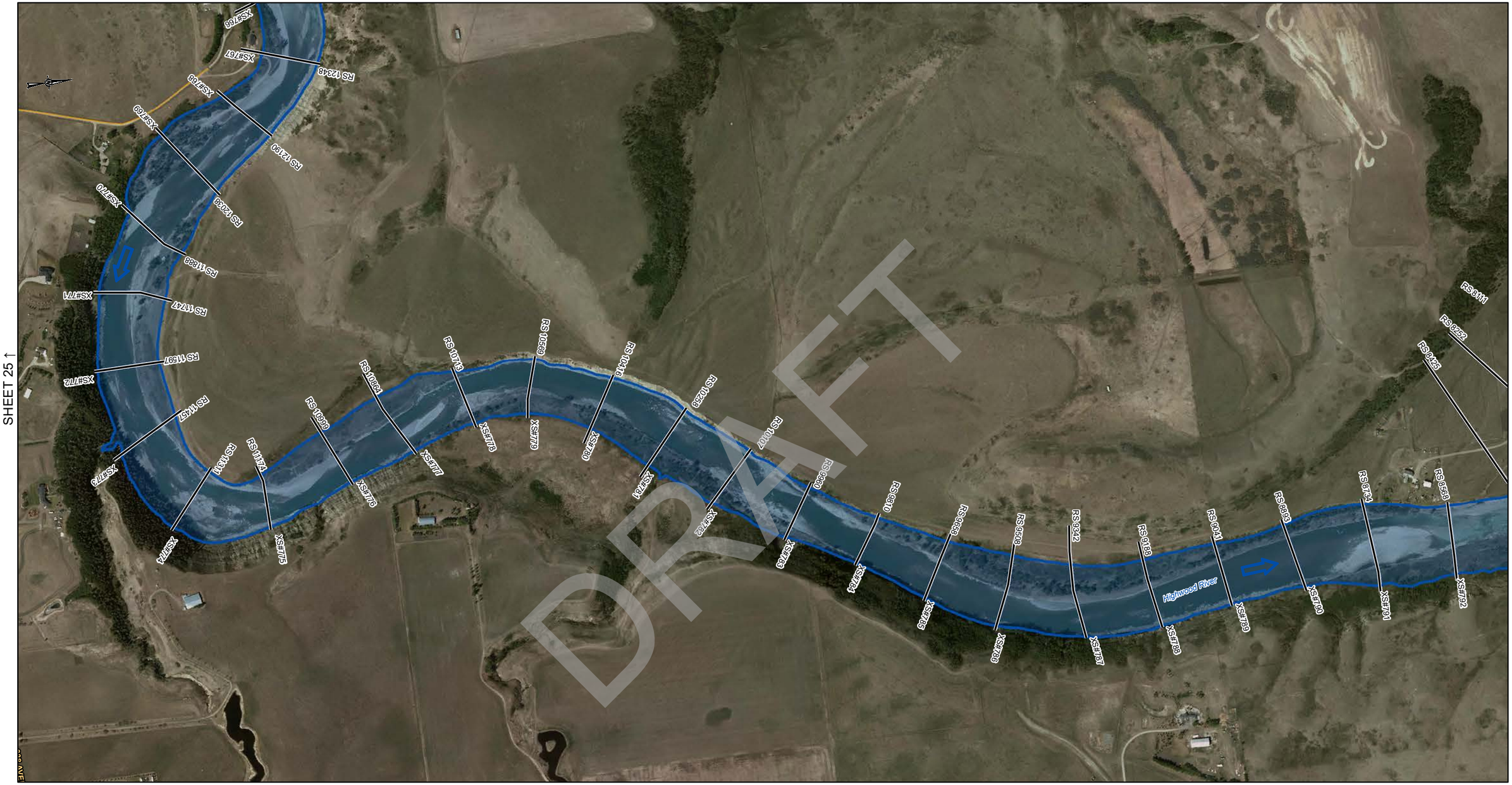
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_1000y-Inundation_Rev0.mxd

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

Classification: Public

SHEET 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

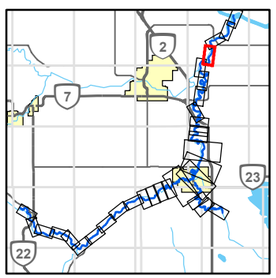
- CULVERT
- WEIR
- BRIDGE

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



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Alberta Government

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GOLDER
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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
1000 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_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 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

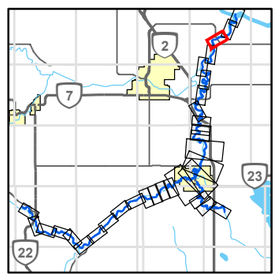
- CULVERT
- WEIR
- BRIDGE

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



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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 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

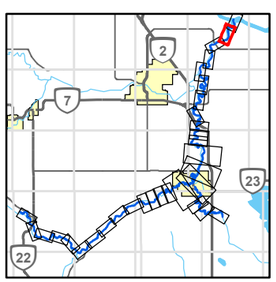
- CULVERT
- WEIR
- BRIDGE

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



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1:7500 METRES

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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 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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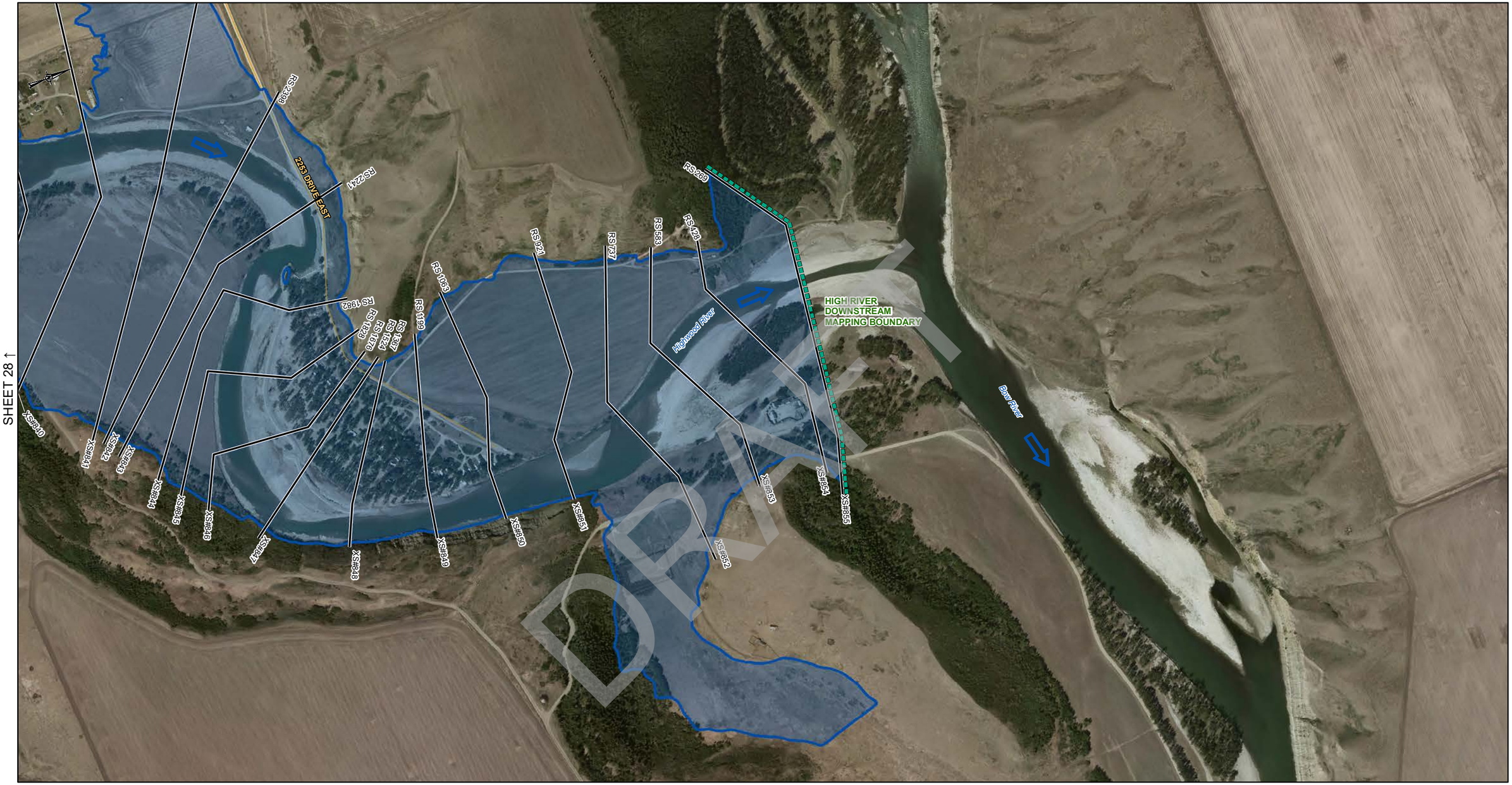
Classification: Public

SHEET 28 ↑



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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

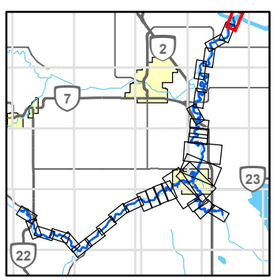
- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DESIGN DISCHARGE

HIGHWOOD RIVER DOWNSTREAM OF SHEEP RIVER = 5619 M^3/S



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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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PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Products\1536669_1000y-Inundation_Rev0.mxd

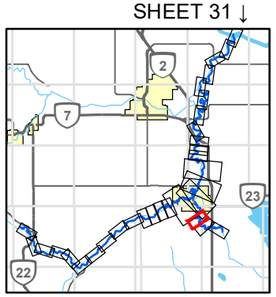
Classification: Public

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

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PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 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_1000y-Inundation_Rev0.mxd

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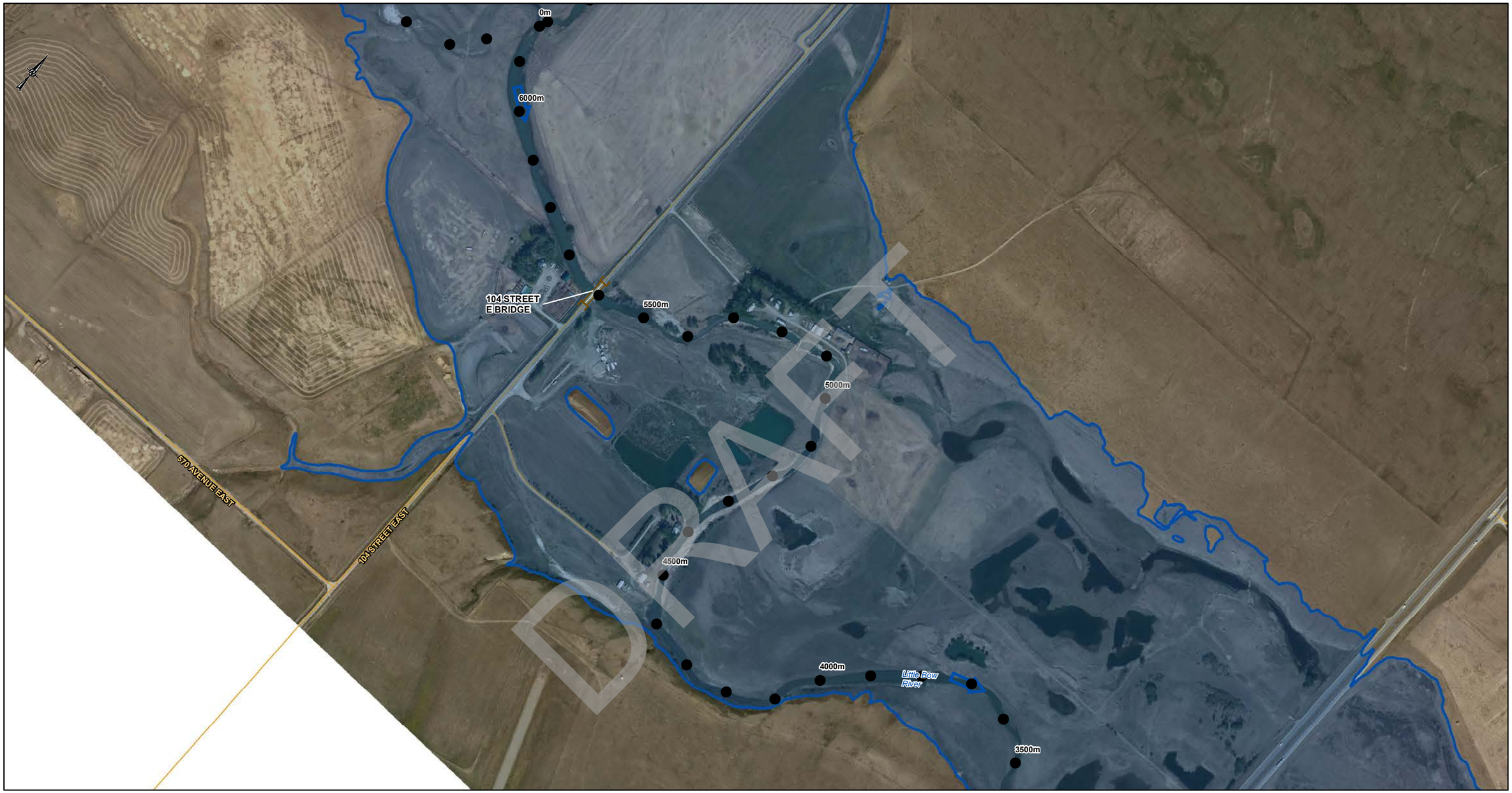
Classification: Public

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

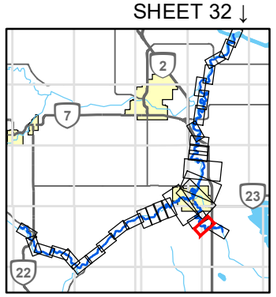
1000-YEAR FLOOD INUNDATION EXTENT

- 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 ↓



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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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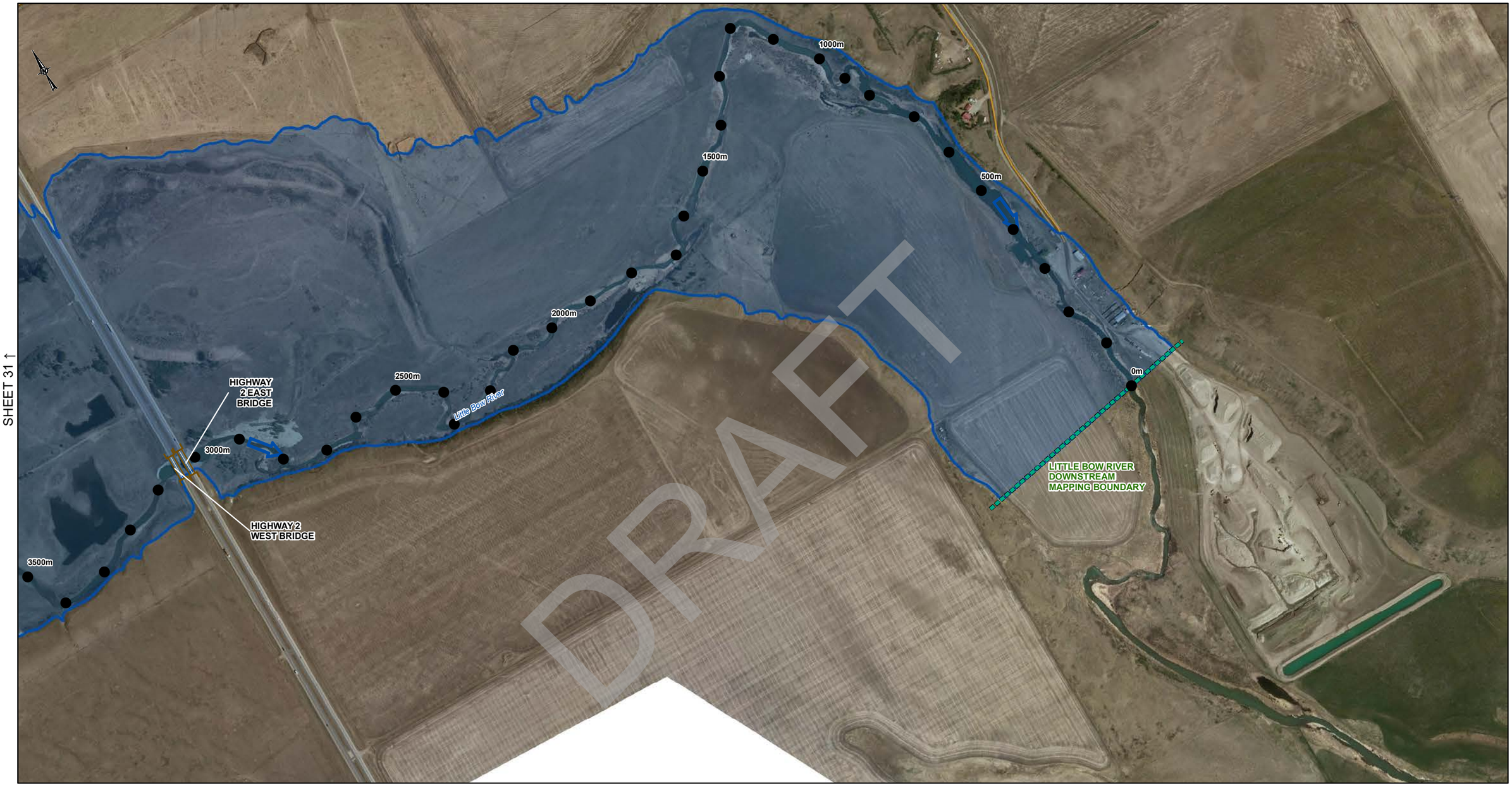
Classification: Public

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

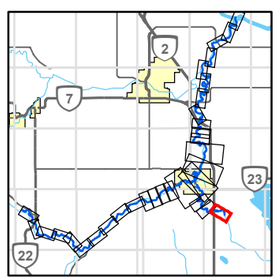
HYDRAULIC STRUCTURES

- 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



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Alberta Government

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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

PATH: I:\CLIENT\$\GOVERNMENT_OF_ALBERTA\21452576_Highwood\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\1536669_1000y-Inundation_Rev0.mxd

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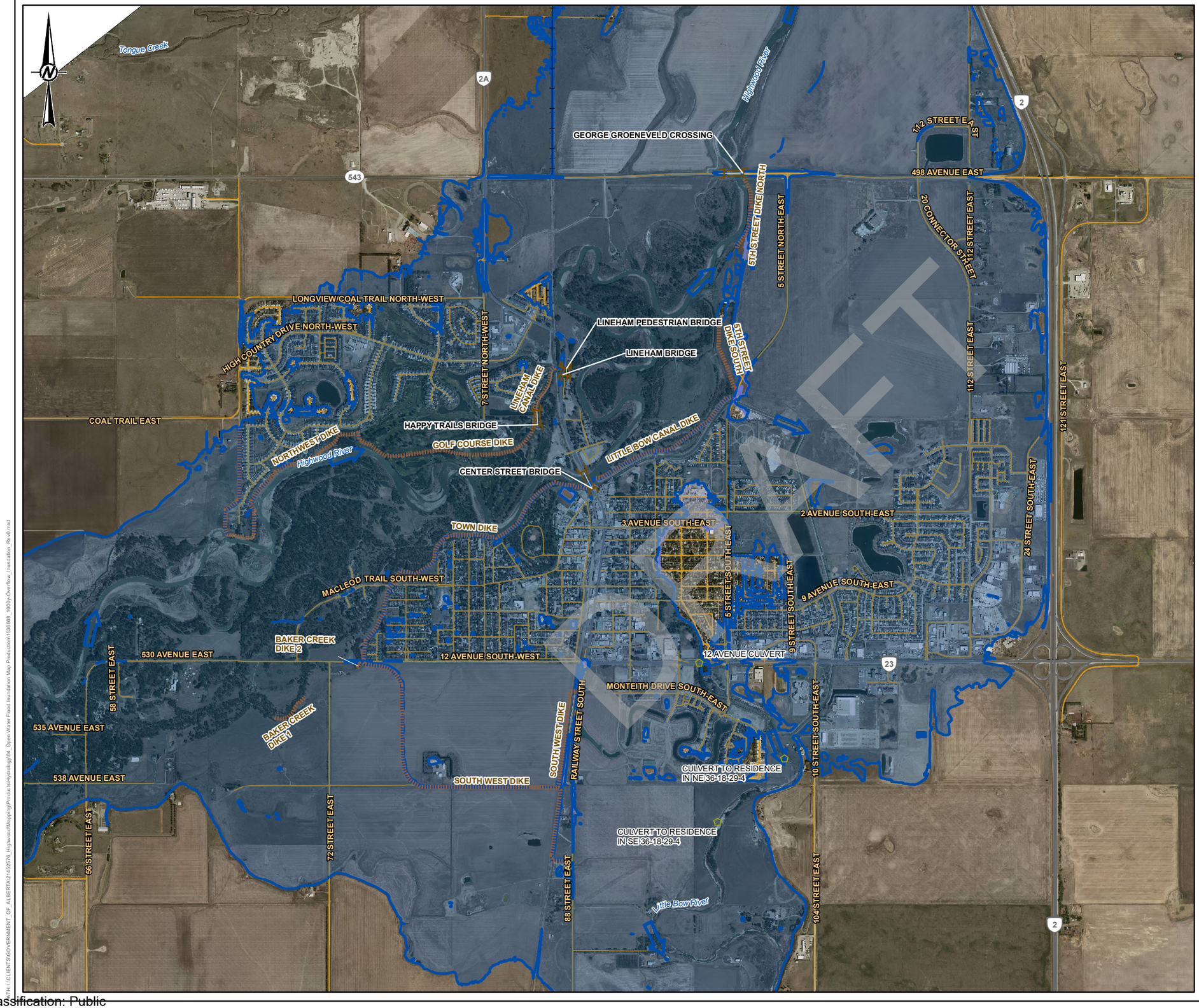


LEGEND

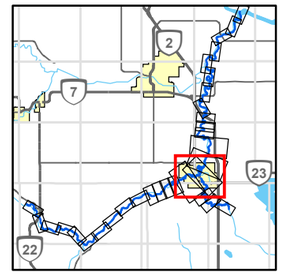
- FLOW DIRECTION
- LOCAL ROAD
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)



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Alberta Government

PROJECT
HIGHWOOD RIVER HAZARD STUDY

TITLE
1000 YEAR INUNDATION EXTENT OVERFLOW AREA AT HIGH RIVER

CONSULTANT
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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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South America	+ 56 2 2616 2000

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