June 2022

BOW AND ELBOW 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: 1536673_R0003

Distribution:

5 Paper Copies - Alberta Environment and Parks
1 Digital Copy – Alberta Environment and Parks

Classification: Public

Table of Contents

2-Year Flood Inundation Extent

5-Year Flood Inundation Extent

10-Year Flood Inundation Extent

20-Year Flood Inundation Extent

35-Year Flood Inundation Extent

50-Year Flood Inundation Extent

75-Year Flood Inundation Extent

100-Year Flood Inundation Extent

200-Year Flood Inundation Extent

350-Year Flood Inundation Extent

500-Year Flood Inundation Extent

750-Year Flood Inundation Extent

1000-Year Flood Inundation Extent

DRAFT

Classification: Public

2-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

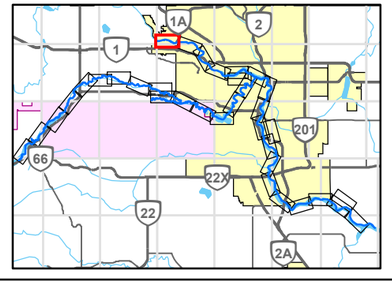
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 12:57:40 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

Bow River

67 STREET NORTH-WEST
51 AVENUE NORTH-WEST
SILVERVIEW DRIVE NORTH-WEST
49 AVENUE NORTH-WEST
47 AVENUE NORTH-WEST
44 AVENUE NORTH-WEST
43 AVENUE NORTH-WEST
41 AVENUE NORTH-WEST
39 AVENUE NORTH-WEST
37 AVENUE NORTH-WEST
36 AVENUE NORTH-WEST
35 AVENUE NORTH-WEST
34 AVENUE NORTH-WEST
33 AVENUE NORTH-WEST
29 AVENUE NORTH-WEST
BOWGLEN ROAD NORTH-WEST
PALM WAY NORTH-WEST
APPLE WAY NORTH-WEST
WILLOW WAY NORTH-WEST
ASPEN WAY NORTH-WEST
CEDAR WAY NORTH-WEST
ASPEN DRIVE NORTH-WEST
88 STREET NORTH-WEST
86 STREET NORTH-WEST
85 STREET NORTH-WEST
83 STREET NORTH-WEST
81 STREET NORTH-WEST
80 STREET NORTH-WEST
79 STREET NORTH-WEST
77 STREET NORTH-WEST
75 STREET NORTH-WEST
73 STREET NORTH-WEST
72 STREET NORTH-WEST
70 STREET NORTH-WEST
69 STREET NORTH-WEST
67 STREET NORTH-WEST

RS 63720, RS 63573, RS 63403, RS 63162, RS 62952, RS 62746, RS 62477, RS 62156, RS 61879, RS 64212, RS 63795, RS 64750, RS 64915, RS 65103, RS 65296, RS 65467, RS 65687, RS 64557, RS 64528, RS 64410

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

201 1

LEGEND

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

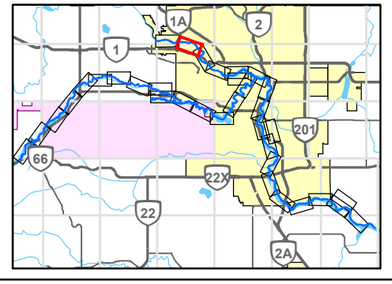
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

25mm

0

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 12:58:45 PM

Classification: Public

SHEET 2 ↑

SHEET 4 ↓

5660000

-10000

NORTHWEST

VARSITY ROA

MONTALBAN DRIVE NORTH-WEST

23 AVENUE NORTH-WEST

MACKAY ROAD NORTH-WEST

22 AVENUE NORTH-WEST

21 AVENUE NORTH-WEST

VETERANS WAY NORTH-WEST

HARRY BOOTHMAN BRIDGE

MACLEOD TRAIL NORTH-WEST

MONTGOMERY BERM

HEXTALL BRIDGE

SHOULDICE BRIDGE

TSUU T'INA TRAIL

68 STREET NORTH-WEST

13 AVENUE NORTH-WEST

Bow River

TRANS-CANADA HIGHWAY BRIDGE

67 STREET NORTH-WEST

SARCEE TRAIL SOUTH-WEST

29 AVENUE NORTH-WEST

PATINA DRIVE SOUTH-WEST

RS 60668 RS 61423 RS 60698 RS 60670 RS 60582 RS 60250 RS 61402 RS 59651 RS 59489 RS 59392 RS 59231 RS 59074 RS 58789 RS 58702 RS 58630 RS 58335 RS 58097 RS 57831 RS 57610 RS 57490 RS 57219 RS 57049 RS 57081 RS 56912 RS 56731 RS 56529 RS 56353

XS#41 XS#42 XS#43 XS#49 XS#52 XS#SX XS#54 XS#55 XS#56 XS#57 XS#58 XS#59 XS#60 XS#61 XS#62 XS#63 XS#64 XS#65 XS#66 XS#67 XS#68 XS#69 XS#70 XS#72

5660000

-10000

LEGEND

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

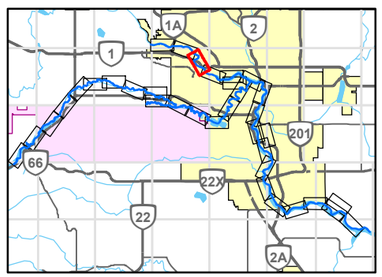
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:00:24 PM

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST HILLHURST BERM

WESTMOUNT ROAD NORTH-WEST

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:02:10 PM

Classification: Public

LEGEND

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

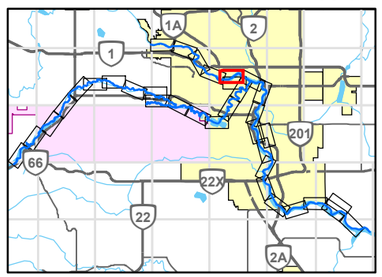
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:03:21 PM

Classification: Public

SHEET 5 ↑

SHEET 7 ↓

NEW LANGEVIN (EDMONTON TRAIL) BRIDGE
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE ON ZOO SIDE CHANNEL
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE
ZOO SERVICE BRIDGE
ZOO ISLAND FLOODWALL
BRIDGELAND BERM
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM
LANGEVIN BRIDGE BERM
BAINES BRIDGE
ZOO ROAD NORTH-EAST
4TH AVENUE FLYOVER BRIDGE
HARRY KROEGER BRIDGE
RIVERWALK BERM
ELBOW RIVER TRAVERSE
WEST INGLEWOOD BERM
ST. GEORGE'S ISLAND BRIDGE
INGLEWOOD FLOOD BARRIER
NEW STREET SOUTH-EAST
9TH AVENUE SE BRIDGE
OLD LANGEVIN BRIDGE
CP RAIL BRIDGE
MACDONALD BRIDGE
WESTERN HEADWORKS WEIR
PEARCE ESTATE PARK BERM
CP RAIL BRIDGE
CUSHING BRIDGE
SOUTH INGLEWOOD BERM
Nose Creek
Bow River
Elbow River
EDMONTON TRAIL NORTH-EAST
4 AVENUE NORTH-EAST
5 STREET NORTH-EAST
7 STREET NORTH-EAST
9 STREET NORTH-EAST
10 STREET NORTH-EAST
11A STREET NORTH-EAST
CENTRE AVENUE NORTH-EAST
12 STREET NORTH-EAST
MEMORIAL DRIVE NORTH-EAST
3 AVENUE SOUTH-EAST
4 AVENUE SOUTH-EAST
16 AVENUE SOUTH-EAST
24 AVENUE SOUTH-EAST

LEGEND

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

HYDRAULIC STRUCTURES

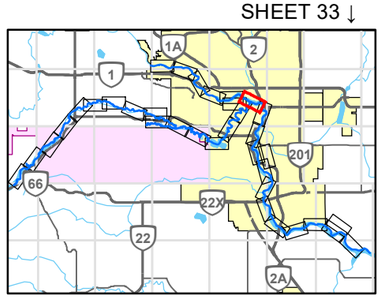
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 70 M^3/S
BOW RIVER BELOW ELBOW RIVER = 464 M^3/S
BOW RIVER BELOW NOSE CREEK = 465 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:04:49 PM

Classification: Public

SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

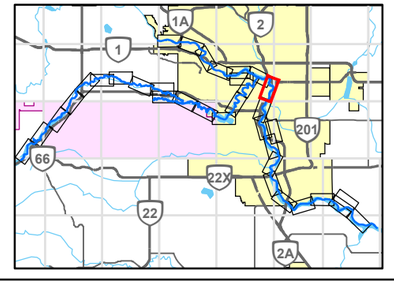
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

25mm

0

DRAFT

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:06:20 PM

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40513
RS 40788
RS 40663
RS 40378
RS 40254
RS 40065
RS 39997
RS 39942
RS 39886
RS 39767
RS 39697
RS 39436
RS 39313
RS 39262
RS 39120
RS 38865
RS 38775
RS 38682
RS 38519
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 37368
RS 37520
RS 37460
RS 37417
RS 37301
RS 37129
RS 36882
RS 36741
RS 36303

CALF ROBE BRIDGE
CN RAIL BRIDGE
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
18 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
10 STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

Bow River

560
2
8

XS#178 XS#179 XS#180 XS#181 XS#182 XS#183 XS#184 XS#185 XS#186 XS#187 XS#188 XS#189 XS#190 XS#191 XS#192 XS#193 XS#194 XS#195 XS#196 XS#197 XS#198 XS#199 XS#200 XS#201 XS#202 XS#203 XS#204 XS#205 XS#206 XS#207 XS#208 XS#209 XS#210 XS#211

5650000

LEGEND

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

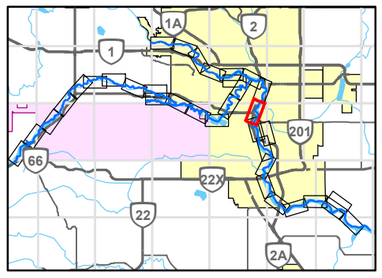
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:07:41 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

6654000

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

IVOR STRONG BRIDGE

QUARRY PARK BERM

Bow River

18 STREET SOUTH-EAST

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

560

RS 37689 RS 37630 RS 37480 RS 37364 RS 37029 RS 36682 RS 36474 RS 36303 RS 36008 RS 35723 RS 35602 RS 35419 RS 35275 RS 35139 RS 34869 RS 34780 RS 34758 RS 34557

XS#210 XS#211 XS#212 XS#213 XS#214 XS#215 XS#216 XS#217 XS#218 XS#219 XS#220 XS#221 XS#222 XS#223 XS#224 XS#225 XS#226 XS#227 XS#228 XS#229 XS#230 XS#231 XS#232

LEGEND

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

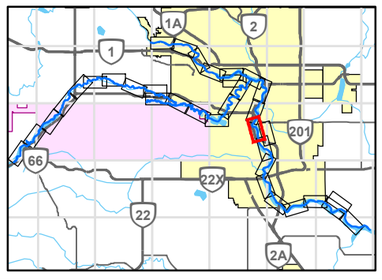
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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

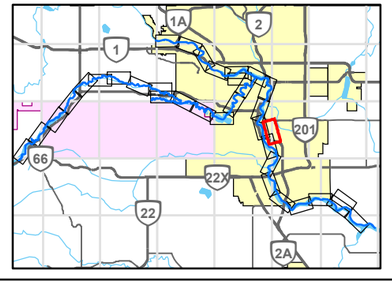
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:08:57 PM

Classification: Public

SHEET 9 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:10:03 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

DRAFT

LEGEND

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

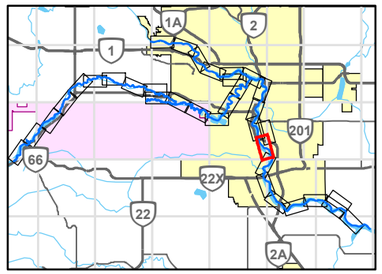
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:11:20 PM

Classification: Public

SHEET 10 ↑

SHEET 12 ↓

LEGEND

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

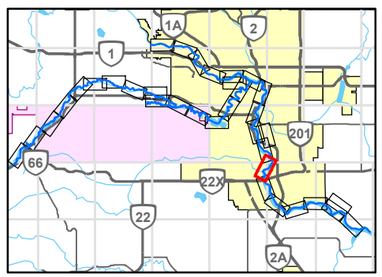
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 465 M^3/S
BOW RIVER BELOW FISH CREEK = 469 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:12:48 PM

Classification: Public

DRAFT

LEGEND

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

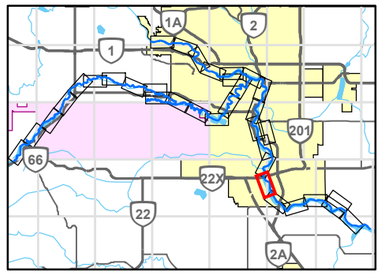
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 469 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:14:18 PM

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

DRAFT

LEGEND

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

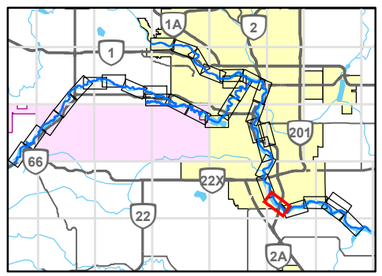
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 469 M^3/S
BOW RIVER BELOW PINE CREEK = 472 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:15:58 PM

Classification: Public

SHEET 13 ↑

SHEET 15 ↓

DRAFT

LEGEND

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

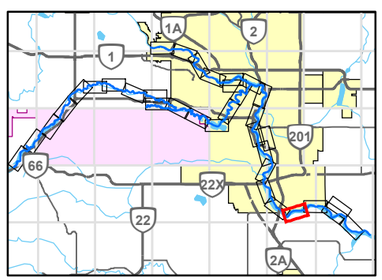
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 472 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

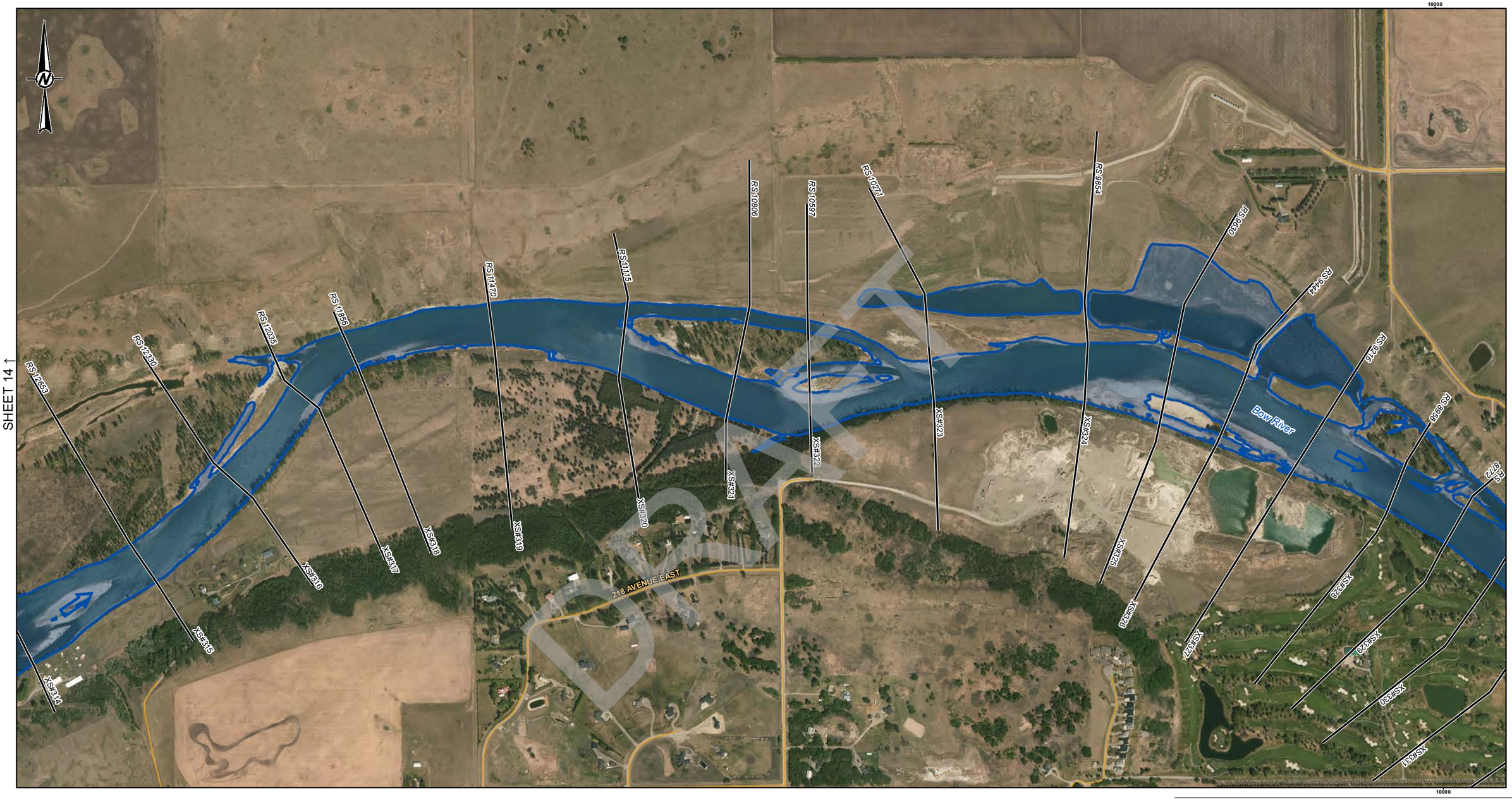
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:17:08 PM

Classification: Public



SHEET 14 ↑

SHEET 16 ↓

DRAFT

LEGEND

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

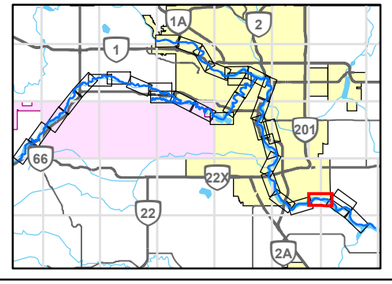
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 472 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 478 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:18:05 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

FLOOD CONTROL STRUCTURE

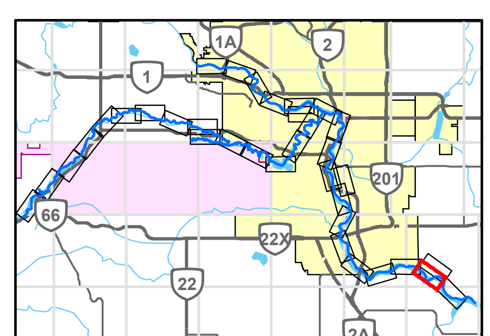
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 478 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

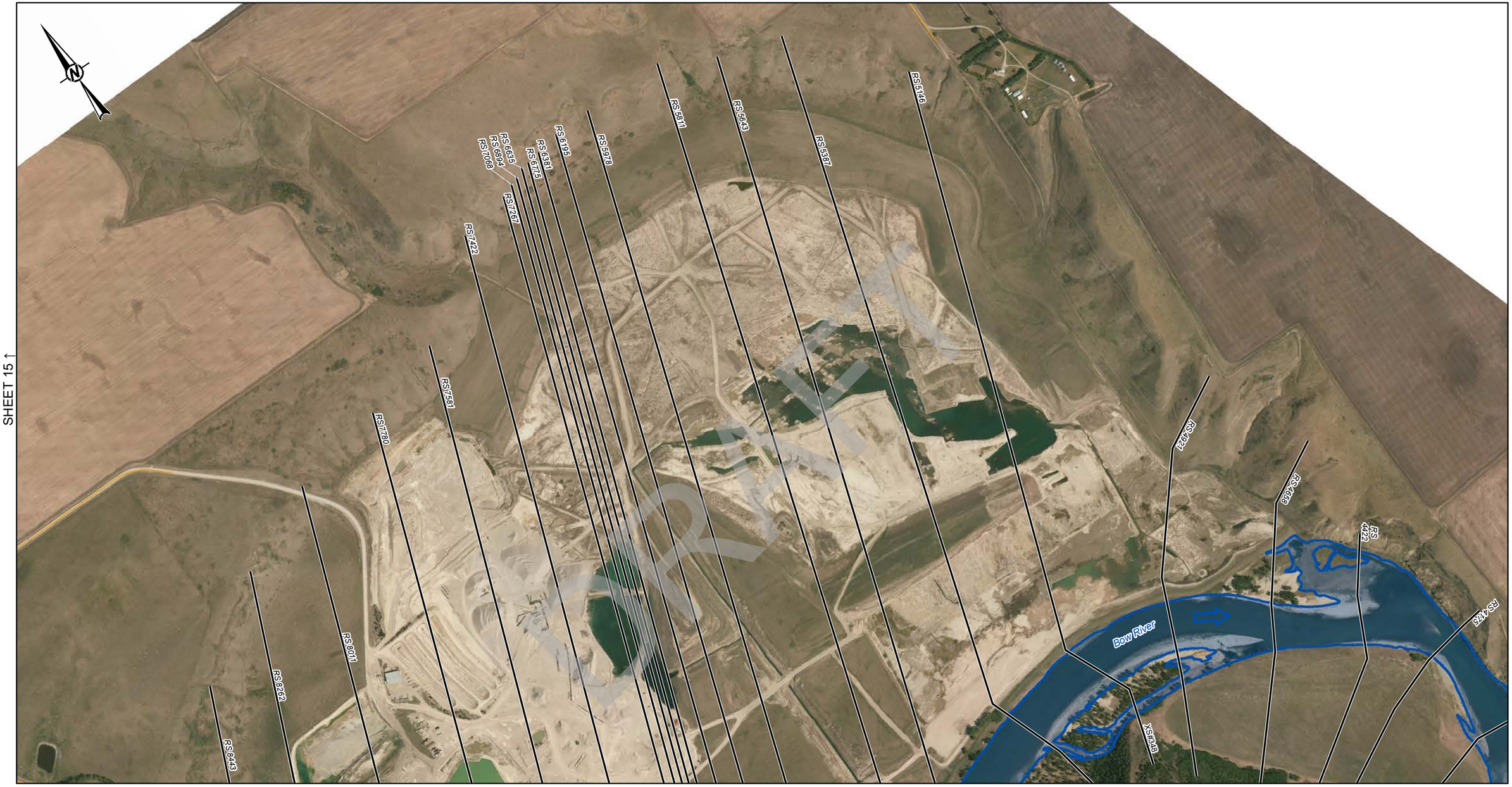
TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:19:22 PM

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

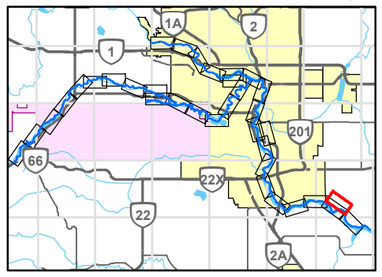
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 478 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:20:27 PM

Classification: Public

LEGEND

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

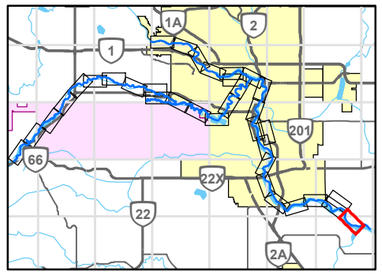
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 478 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:21:31 PM

Classification: Public

LEGEND

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

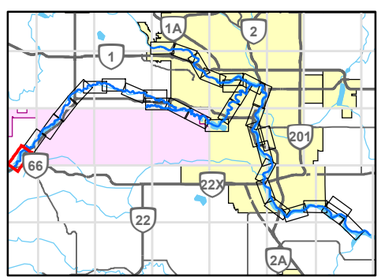
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

SHEET 20 ↓

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

25mm

0

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:23:17 PM

Classification: Public

LEGEND

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

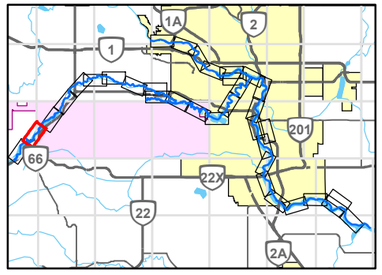
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S
BRAGG CREEK = 5.59 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:34:47 PM

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:26:27 PM

SHEET 20 ↑

SHEET 22 ↓

5650000

REDWOOD MEADOWS GOLF & COUNTRY CLUB BERM

REDWOOD MEADOWS BERM

Elbow River

TSUU T'INA TRAIL

REDWOOD MEADOWS DRIVE

WOLF CRESCENT

WOLF DRIVE

22

66

22X

2A

1

1A

2

201

5650000

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S

0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

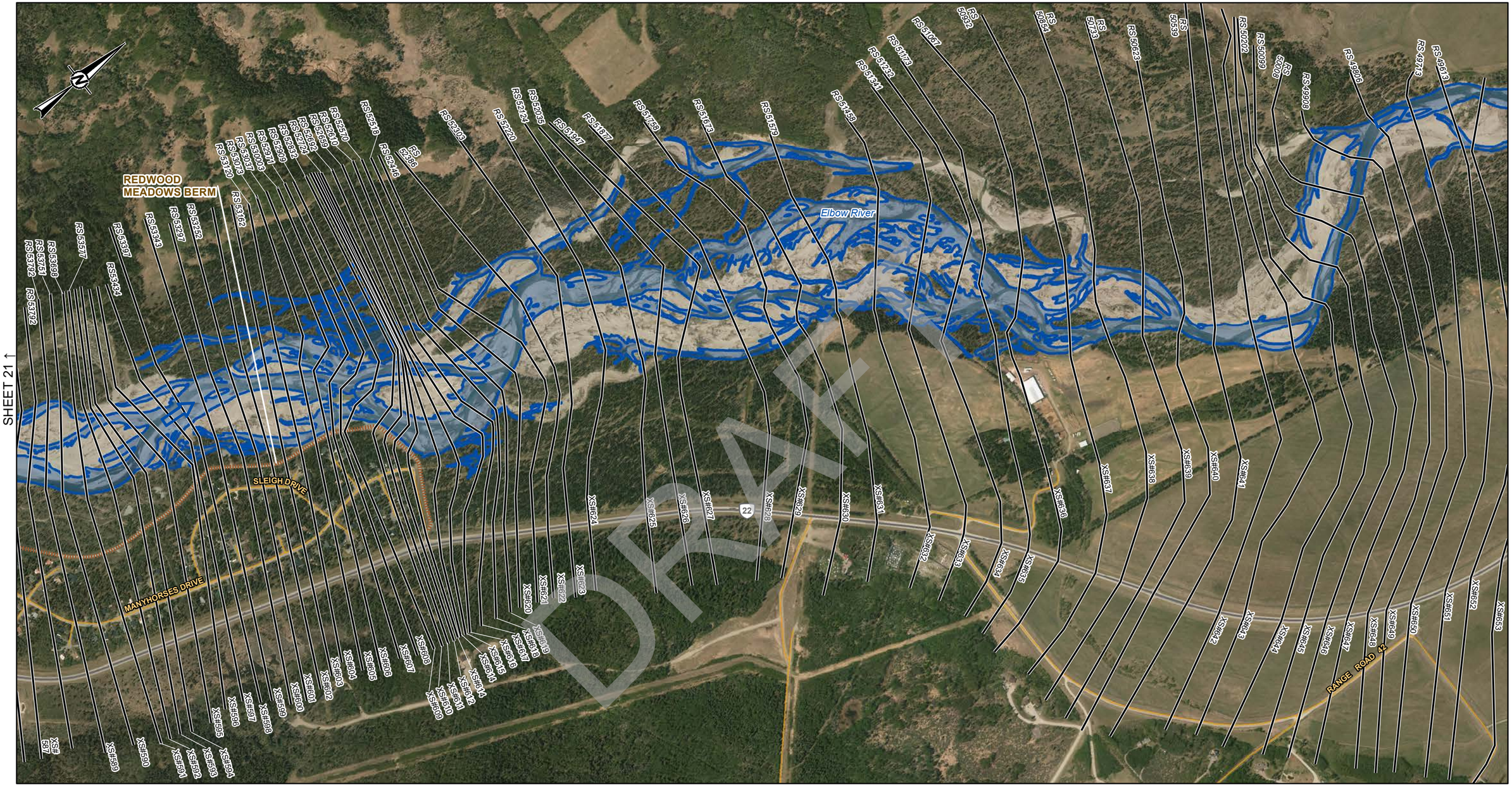
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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

25mm

0

Classification: Public



DRAFT

LEGEND

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

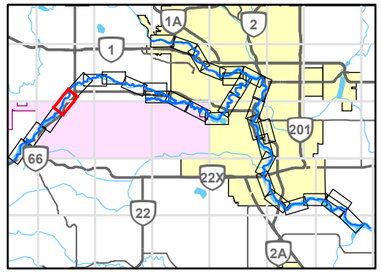
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

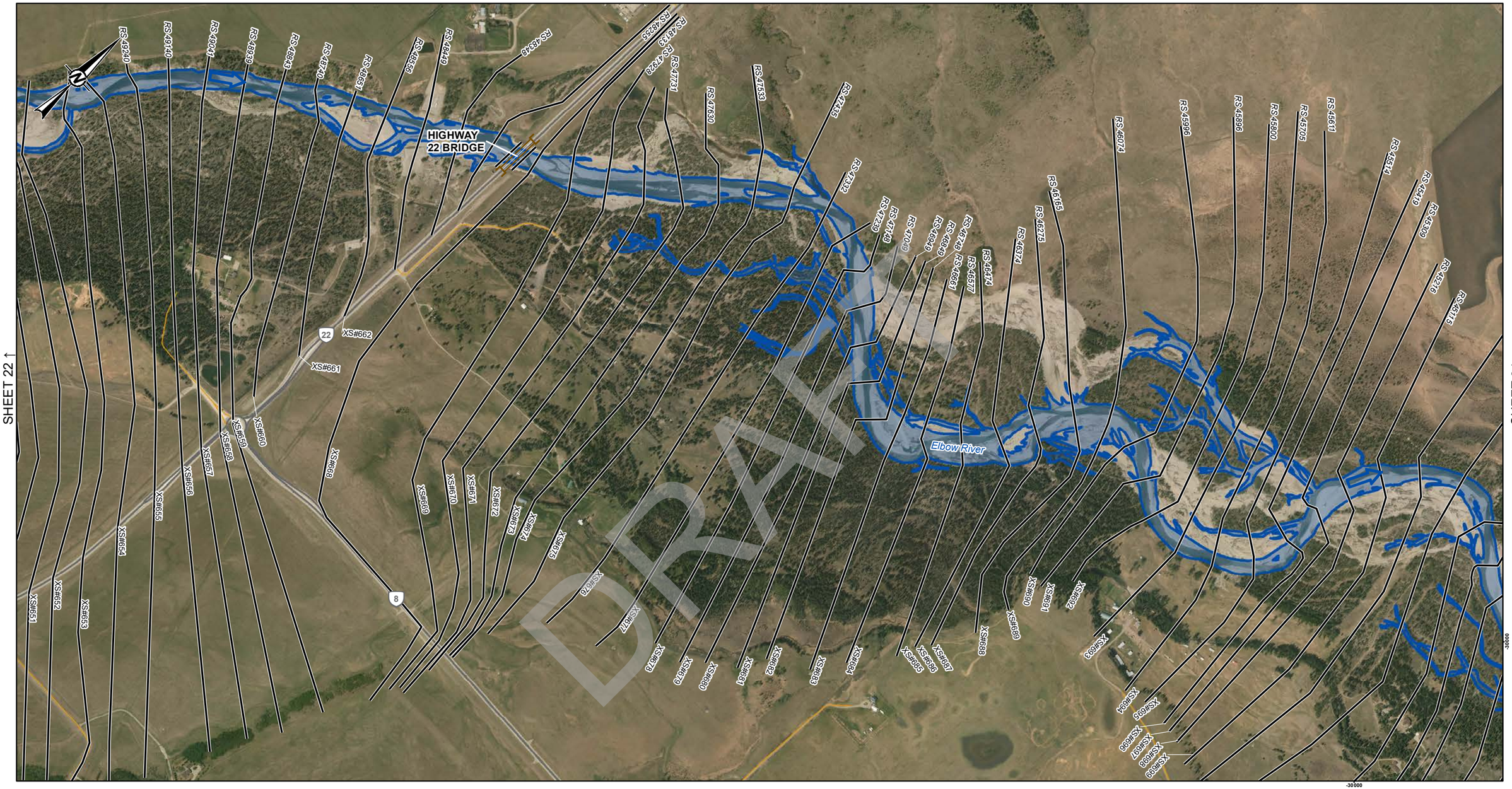
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:28:04 PM

Classification: Public



DRAFT

SHEET 22 ↑

SHEET 24 ↓

LEGEND

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

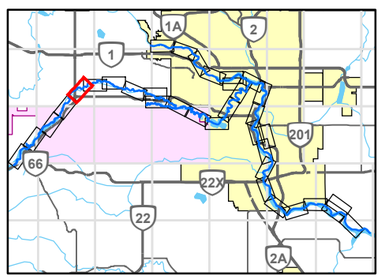
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:40 PM

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:30:52 PM

DRAFT

LEGEND

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

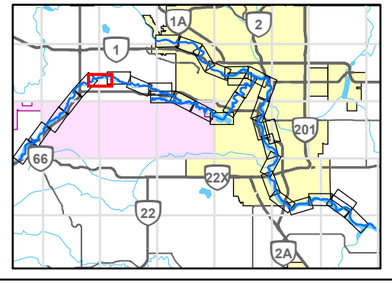
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

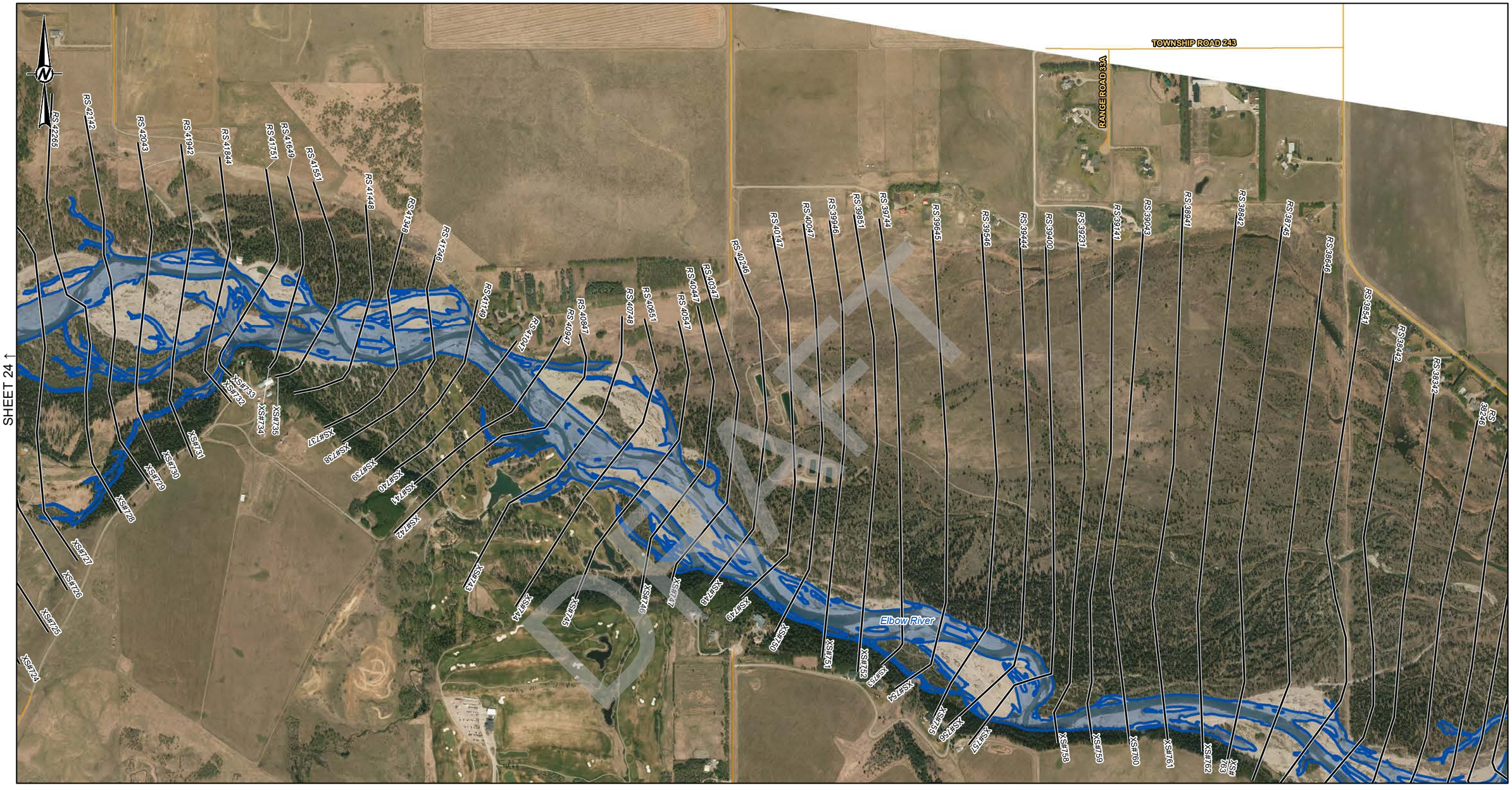
TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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

0 25mm

Classification: Public



LEGEND

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

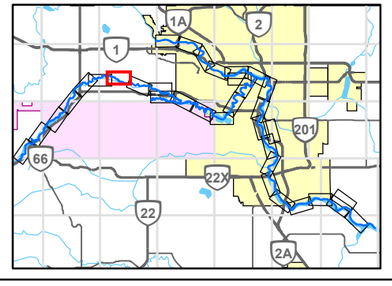
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

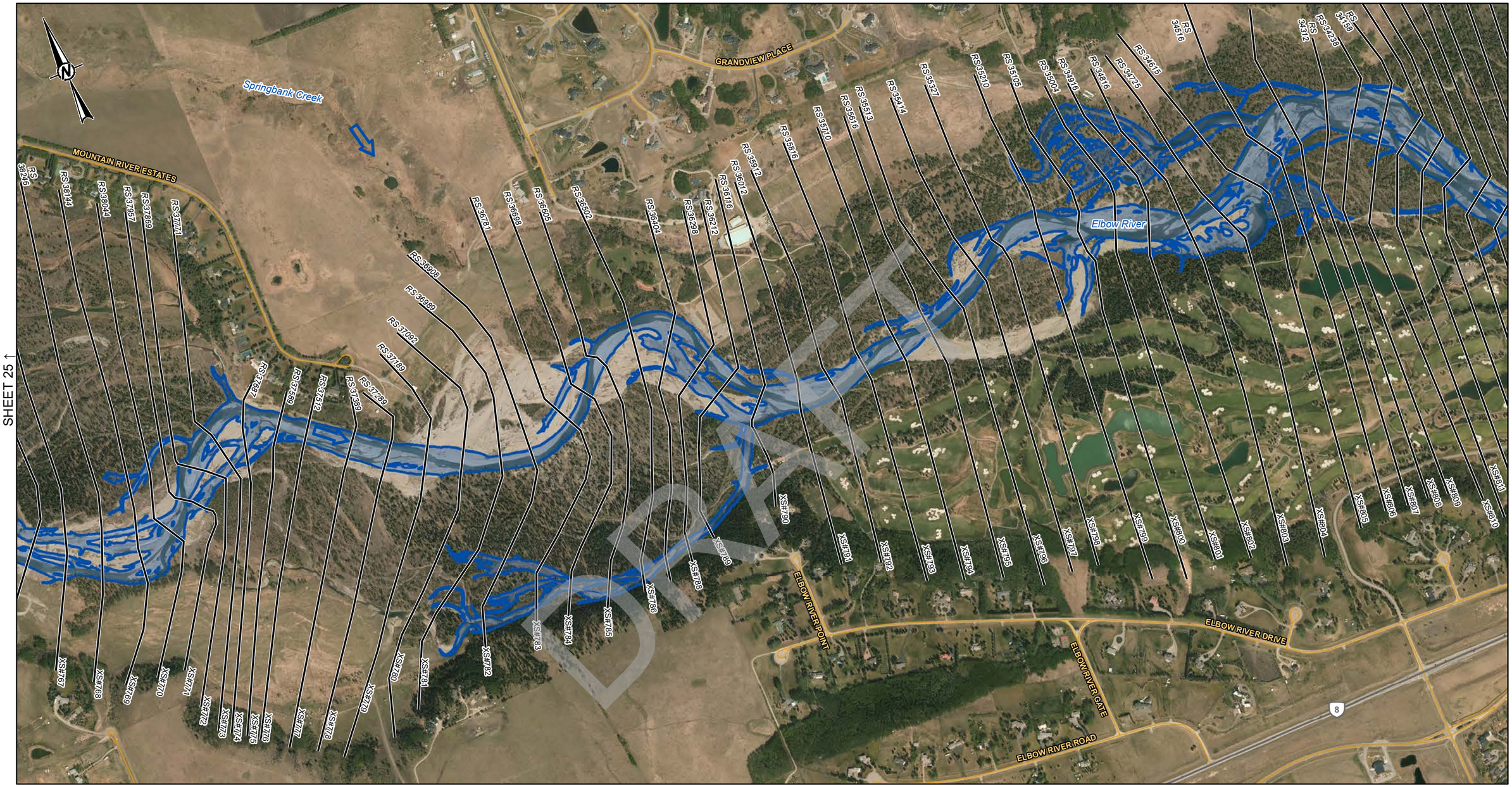
TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:31:54 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

LEGEND

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

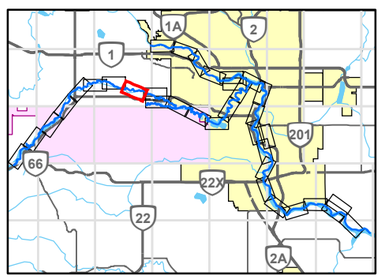
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 67.5 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

25mm 0

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:33:46 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓

-20000

RS 34238 RS 34156 RS 34080 RS 33920 RS 33840 RS 33760 RS 33681 RS 33603 RS 33521 RS 33442 RS 33363 RS 33280 RS 33200 RS 33124 RS 32961 RS 32883 RS 32808 RS 32729 RS 32650 RS 32570 RS 32488 RS 32329 RS 32249 RS 32167 RS 32088 RS 32008 RS 31927 RS 31850 RS 31769 RS 31688 RS 31615 RS 31523 RS 31450 RS 31377 RS 31283 RS 31208 RS 31123 RS 31047 RS 30967 RS 30884 RS 30728 RS 30648 RS 30568 RS 30478 RS 30319 RS 30237 RS 30170 RS 30087 RS 30012 RS 29936 RS 29859 RS 29776 RS 29746 RS 29647

XS#810 XS#811 XS#812 XS#813 XS#814 XS#815 XS#816 XS#817 XS#818 XS#819 XS#820 XS#821 XS#822 XS#823 XS#824 XS#825 XS#826 XS#827 XS#828 XS#829 XS#830 XS#831 XS#832 XS#833 XS#834 XS#835 XS#836 XS#837 XS#838 XS#839 XS#840 XS#841 XS#842 XS#843 XS#844 XS#845 XS#846 XS#847 XS#848 XS#849 XS#850 XS#851 XS#852 XS#853 XS#854 XS#855 XS#856 XS#857 XS#858 XS#859 XS#860 XS#861 XS#862 XS#863 XS#864

STONEPINE COVE
STONEPINE DRIVE
GRANITE RIDGE
WHISPERING WATER TRAIL
WHISPERING WATER BEND
WHISPERING WAY
ELBOW RIDGE BLUFFS
PINERIDGE WAY SOUTHWEST
Elbow River
8

-20000

LEGEND

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

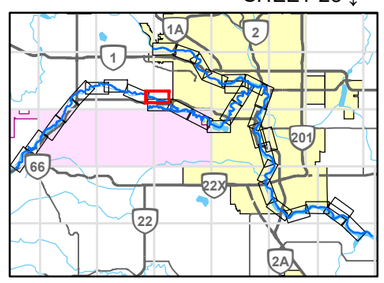
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S
LOTT CREEK = 2.45 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

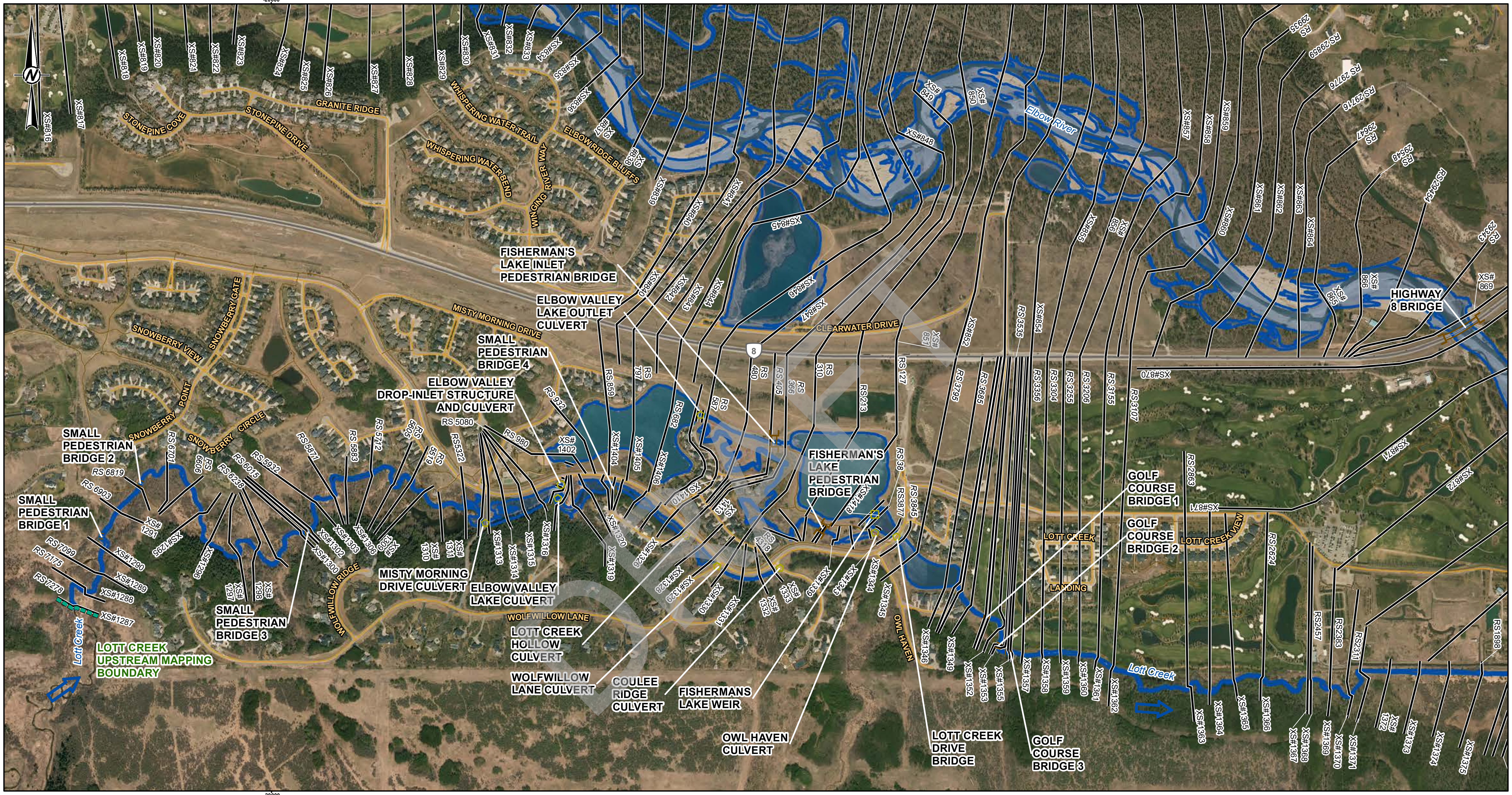
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:36:38 PM

Classification: Public

SHEET 27 ↑



SHEET 29 ↓

LEGEND

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

FLOOD CONTROL STRUCTURE

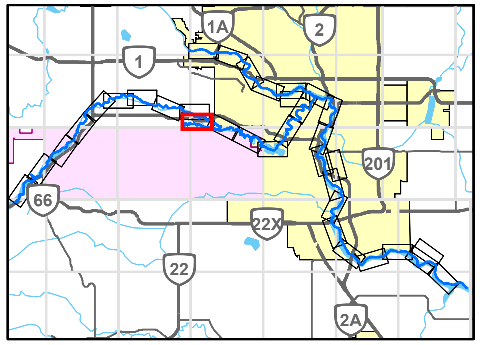
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S
LOTT CREEK = 2.45 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:37:36 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

LEGEND

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

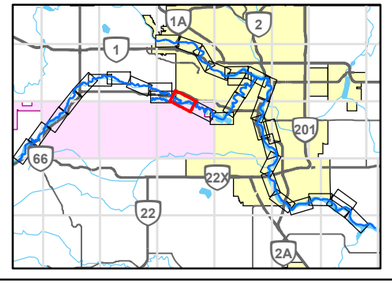
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S
LOTT CREEK = 2.45 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

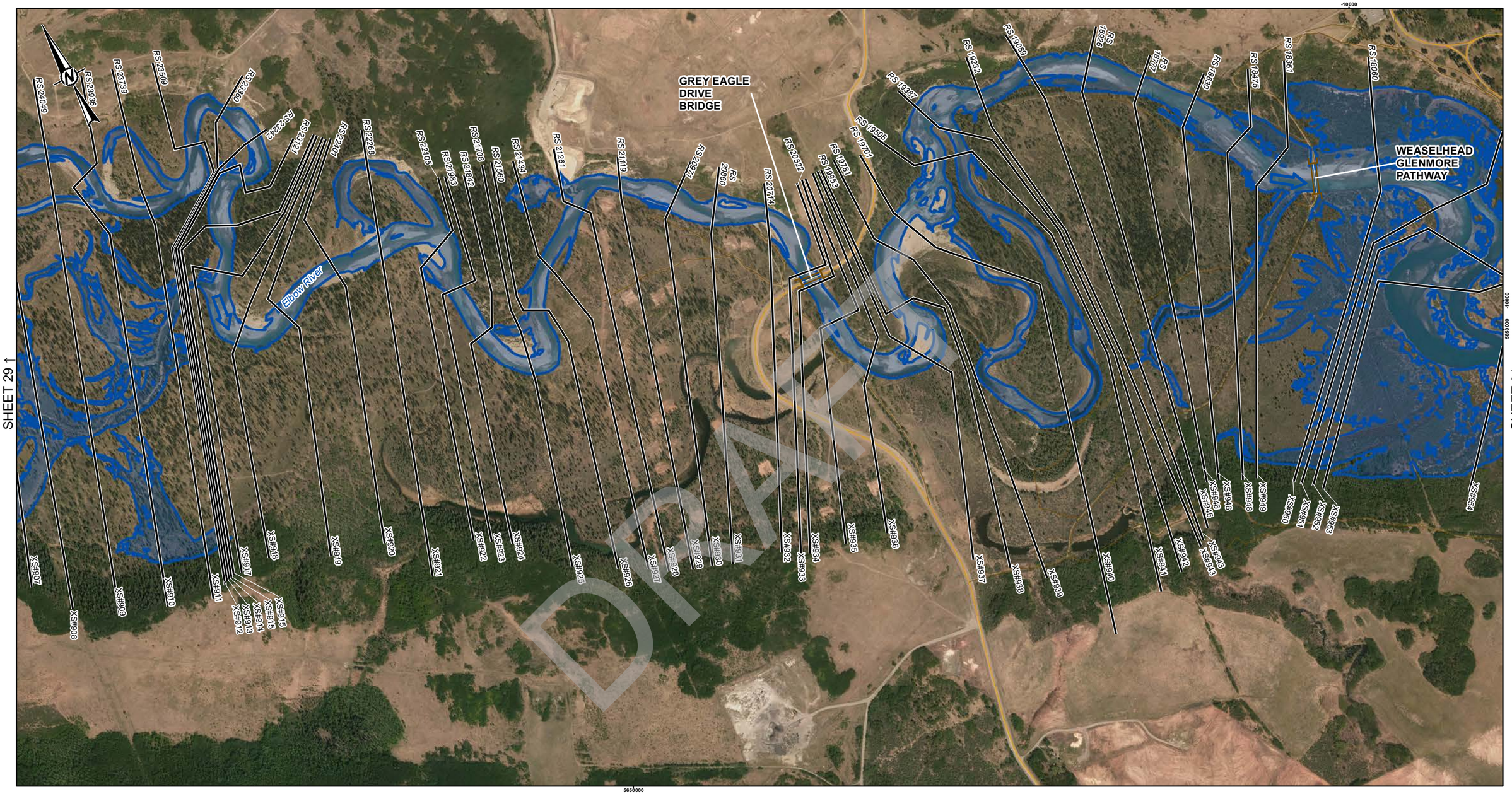
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:40:07 PM

Classification: Public



DRAFT

LEGEND

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

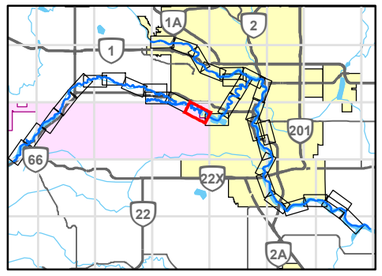
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

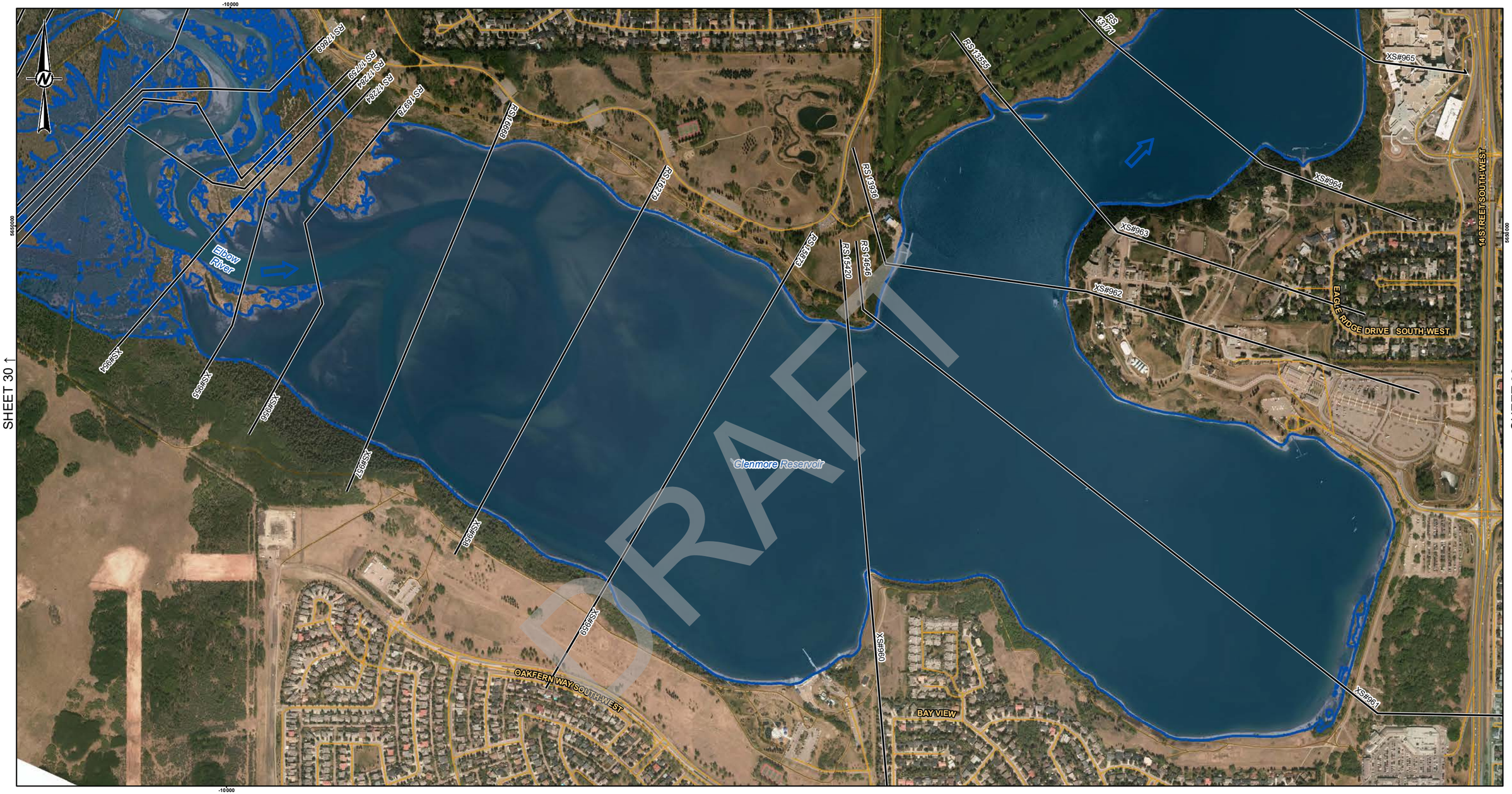
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:42:28 PM

Classification: Public



DRAFT

LEGEND

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

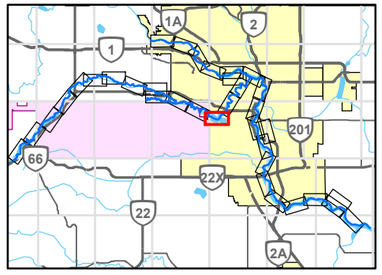
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 70.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:44:14 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓

LEGEND

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

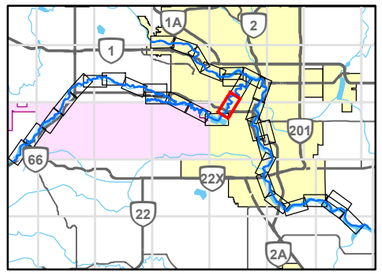
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 70 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm

0

DRAFT

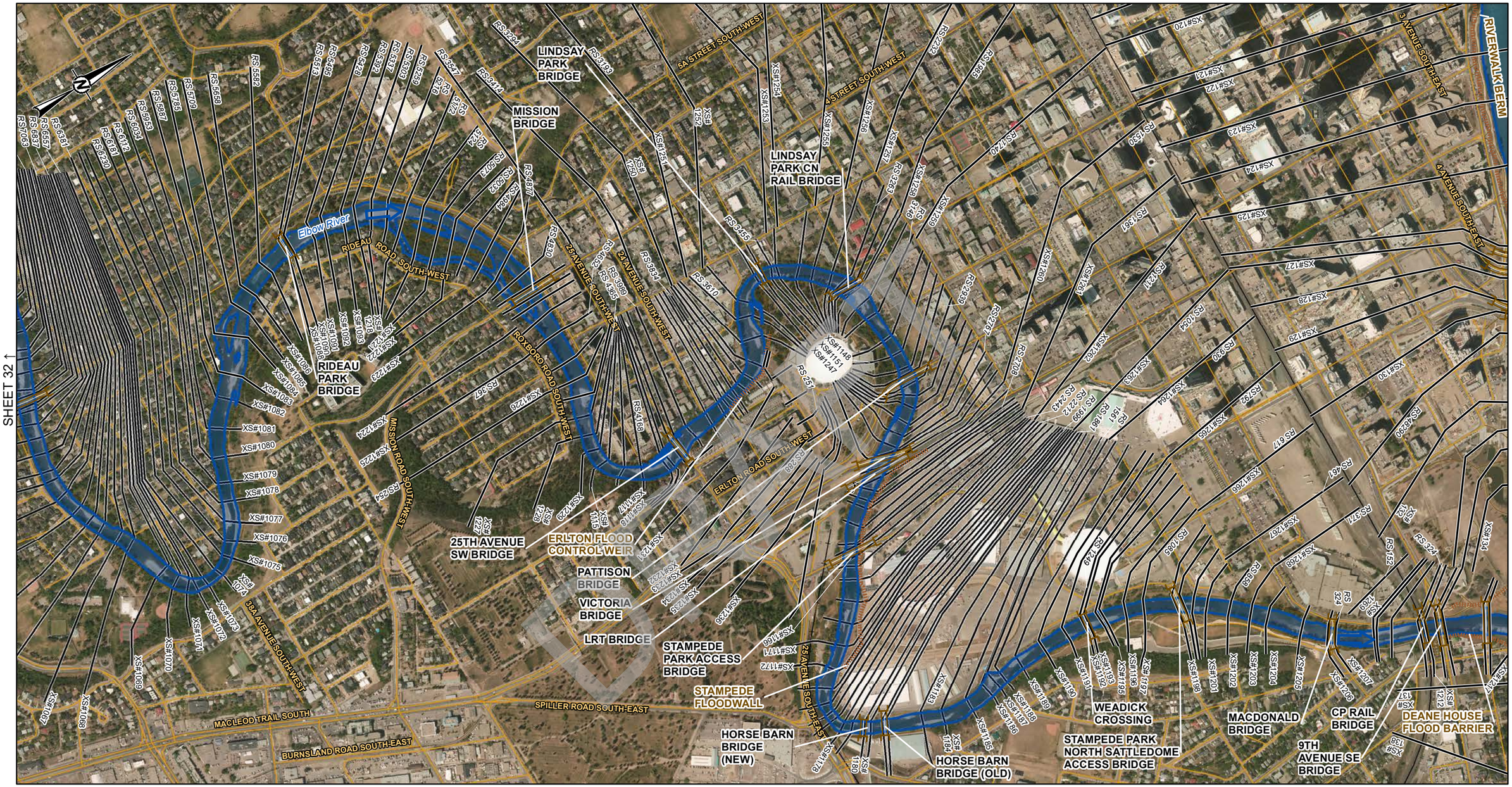
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:46:46 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

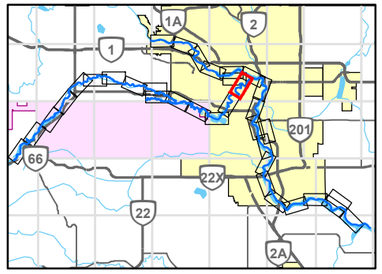
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 70 M^3/S
BOW RIVER BELOW ELBOW RIVER = 464 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

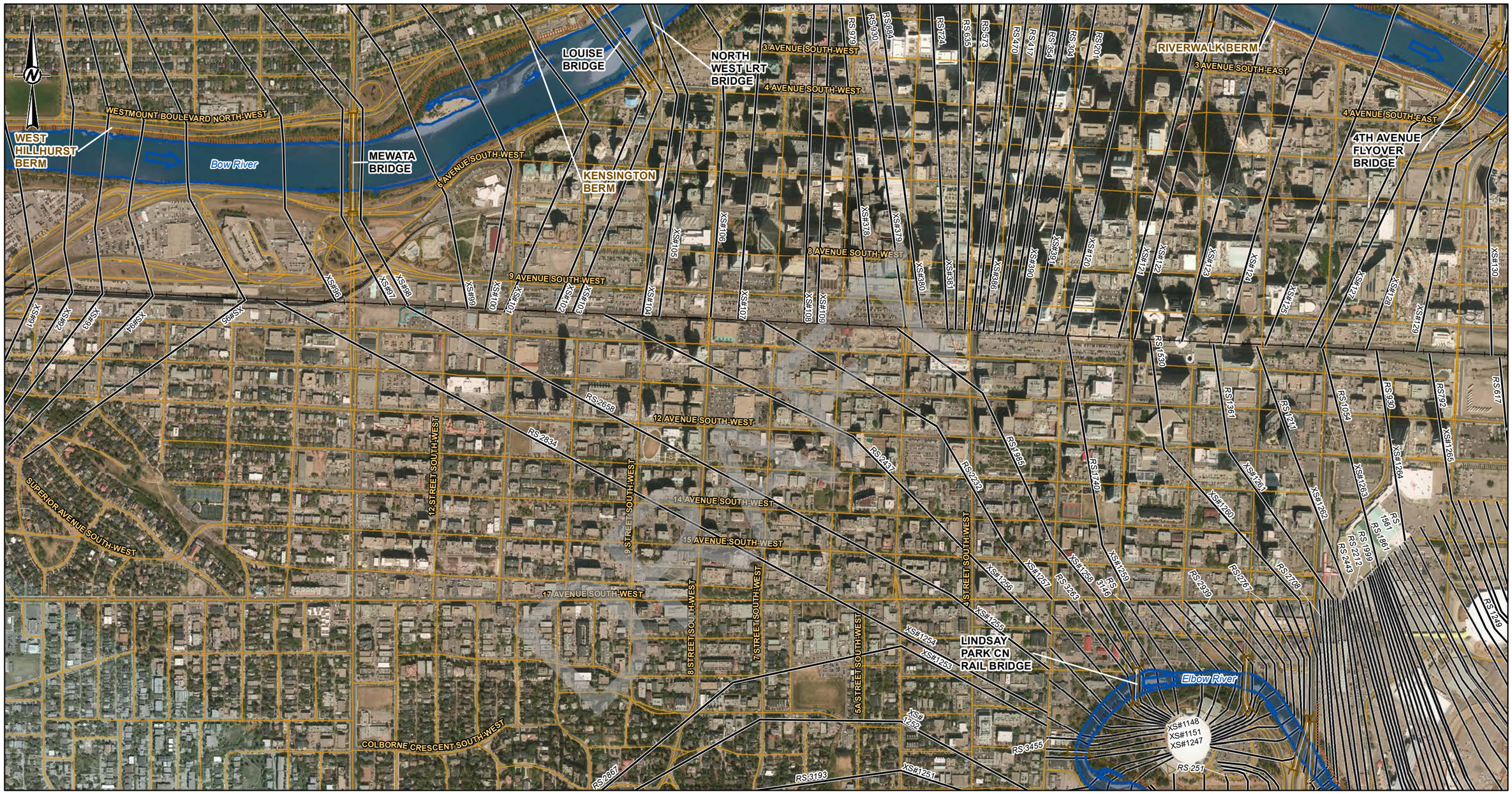
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:48:33 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

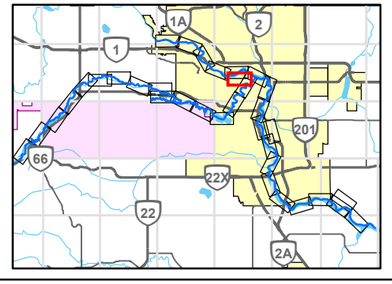
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

2-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 401 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 70 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
2-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:51:16 PM
Classification: Public

5-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

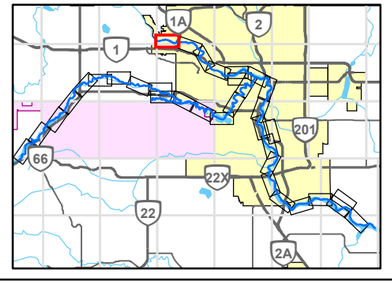
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 12:57:32 PM

SHEET 1 ↑

SHEET 3 ↓

LEGEND

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

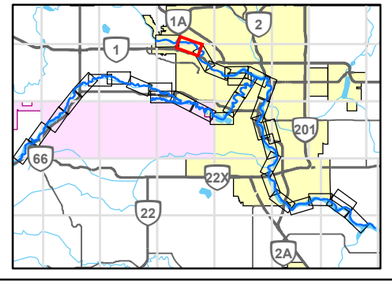
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

0 25mm

Classification: Public

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 12:58:45 PM

SHEET 2 ↑

SHEET 4 ↓

5660000

-10000

VARSITY ROAD NORTHWEST

MONTALBAN DRIVE NORTH-WEST

23 AVENUE NORTH-WEST

MACKAY ROAD NORTH-WEST

22 AVENUE NORTH-WEST

21 AVENUE NORTH-WEST

VETERANS WAY NORTH-WEST

HARRY BOOTHMAN BRIDGE

68 STREET NORTH-WEST

HEXTALL BRIDGE

SHOULDICE BRIDGE

MONTGOMERY BERM

Bow River

13 AVENUE NORTH-WEST

TRANS-CANADA HIGHWAY BRIDGE

67 STREET NORTH-WEST

SARCEE TRAIL SOUTH-WEST

29 AVENUE NORTH-WEST

PATINA DRIVE SOUTH-WEST

RS 60668 RS 61423 RS 60698 RS 60670 RS 60582 RS 60250 RS 59651 RS 59489 RS 59392 RS 59231 RS 59074 RS 58789 RS 58702 RS 58335 RS 58091 RS 57831 RS 57610 RS 57490 RS 57219 RS 57081 RS 57049 RS 56912 RS 56731 RS 56529 RS 56353 RS 61402

XS#41 XS#42 XS#43 XS#49 XS#52 XS#53 XS#54 XS#55 XS#56 XS#57 XS#58 XS#59 XS#60 XS#61 XS#62 XS#63 XS#64 XS#65 XS#66 XS#67 XS#68 XS#69 XS#70 XS#71 XS#72

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:00:24 PM

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST HILLHURST BERM

WESTMOUNT ROAD NORTH-WEST

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

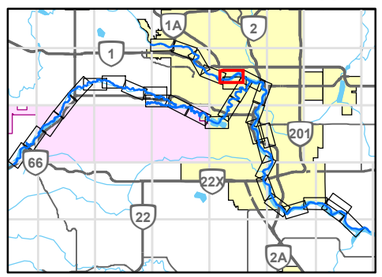
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:02:43 PM

Classification: Public

SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:04:19 PM

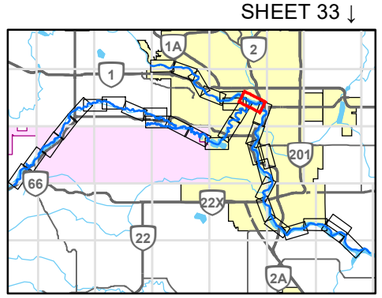
Classification: Public

SHEET 5 ↑

SHEET 7 ↓

NEW LANGEVIN (EDMONTON TRAIL) BRIDGE
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE ON ZOO SIDE CHANNEL
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE
ZOO SERVICE BRIDGE
WESTERN HEADWORKS WEIR
PEARCE ESTATE PARK BERM
CP RAIL BRIDGE
ZOO ISLAND FLOODWALL
BRIDGELAND BERM
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM
LANGEVIN BRIDGE BERM
BAINES BRIDGE
4TH AVENUE FLYOVER BRIDGE
HARRY KROEGER BRIDGE
RIVERWALK BERM
ELBOW RIVER TRAVERSE
WEST INGLEWOOD BERM
ST. GEORGE'S ISLAND BRIDGE
INGLEWOOD FLOOD BARRIER
CUSHING BRIDGE
SOUTH INGLEWOOD BERM
9TH AVENUE SE BRIDGE
OLD LANGEVIN BRIDGE
CP RAIL BRIDGE
MACDONALD BRIDGE
Nose Creek
Bow River
Elbow River
EDMONTON TRAIL NORTH-EAST
CENTRE AVENUE NORTH-EAST
MEMORIAL DRIVE NORTH-EAST
ZOO ROAD NORTH-EAST
NEW STREET SOUTH-EAST
1 STREET NORTH-EAST
3 STREET NORTH-EAST
4 AVENUE NORTH-EAST
7 STREET NORTH-EAST
9 STREET NORTH-EAST
10 STREET NORTH-EAST
11A STREET NORTH-EAST
12 STREET NORTH-EAST
3 AVENUE SOUTH-EAST
4 AVENUE SOUTH-EAST
16 AVENUE SOUTH-EAST
24 AVENUE SOUTH-EAST

SHEET 33 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 157 M^3/S
BOW RIVER BELOW ELBOW RIVER = 739 M^3/S
BOW RIVER BELOW NOSE CREEK = 746 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

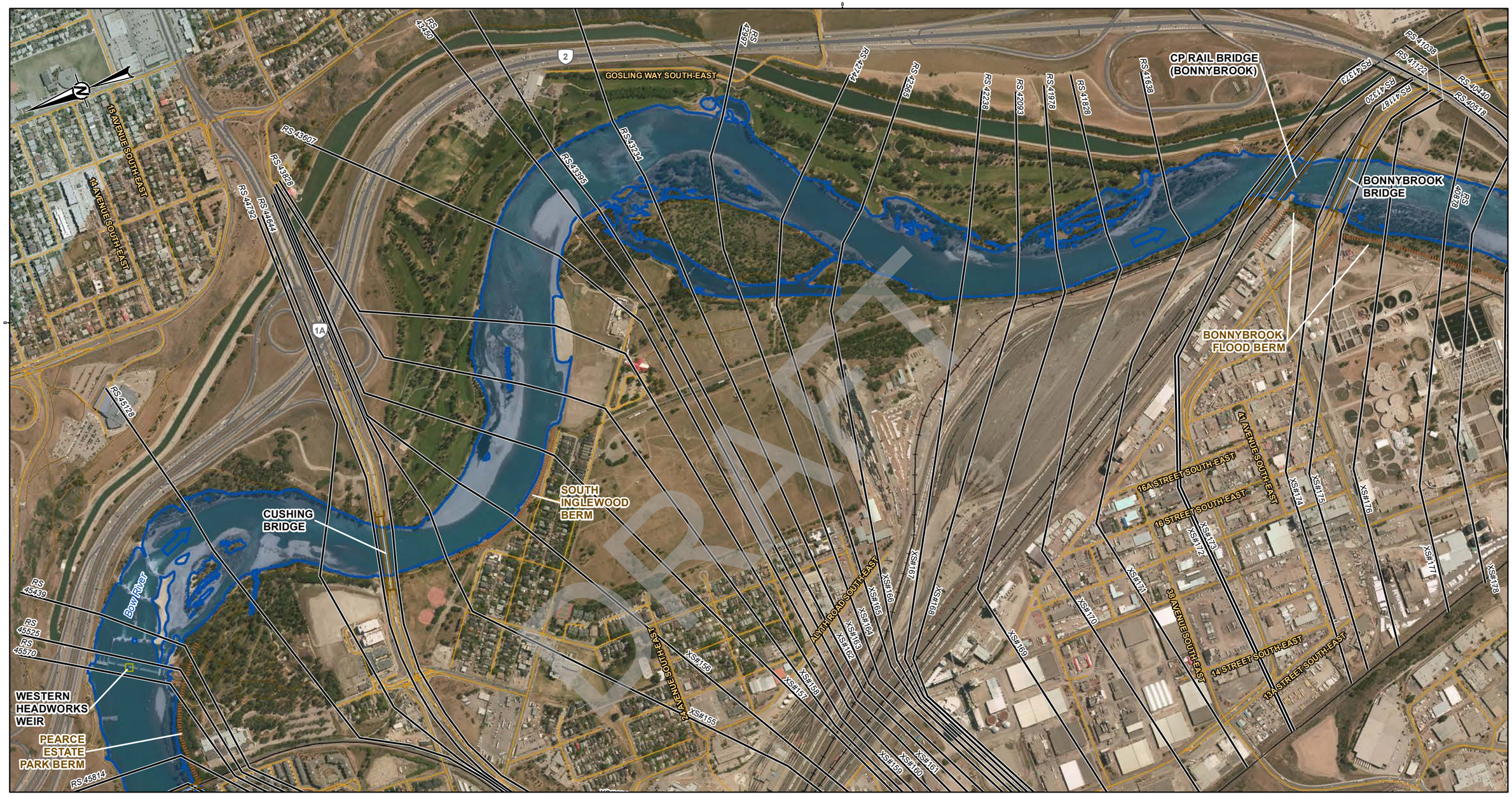
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f06y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:06:35 PM

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

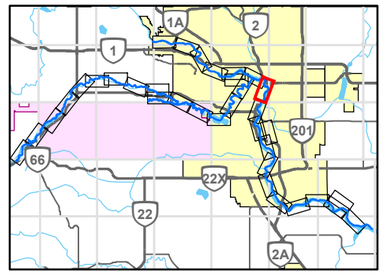
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S

SHEET 5 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

25mm

0

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:06:57 PM

Classification: Public

SHEET 7 →

SHEET 6 →

5650000

5650000

RS 40440
RS 40513
RS 40788
RS 40663
RS 40371
RS 40254
RS 40065
RS 39997
RS 39942
RS 39878
RS 39636
RS 39597
RS 39567
RS 39436
RS 39313
RS 39262
RS 39120
RS 38865
RS 38775
RS 38662
RS 38519
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 37368
RS 37530
RS 37460
RS 37417
RS 37304
RS 37129
RS 36882
RS 36714
RS 36303

CALF ROBE BRIDGE
CN RAIL BRIDGE
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
19 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
10 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S

1A 1 2 201 66 22X 22 2A

0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:08:01 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↓

SHEET 10 ↓

5650000

5649000

RS 37689
RS 37630
RS 37480
RS 37371
RS 37304
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35739
RS 35715
RS 35419
RS 35602
RS 35723
RS 34889
RS 34760
RS 34758
RS 34557

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

18 STREET SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTH LANNIGDON DRIVE SOUTH-EAST

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

Bow River

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

2

LEGEND

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

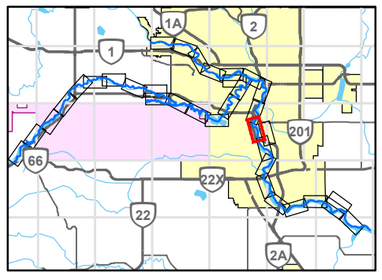
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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

25mm

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:09:03 PM

Classification: Public

LEGEND

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

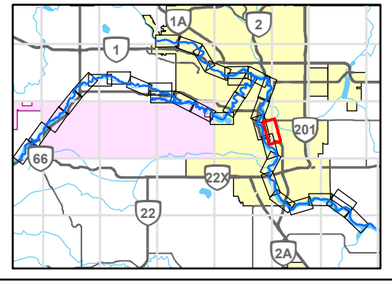
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:10:03 PM

Classification: Public

LEGEND

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

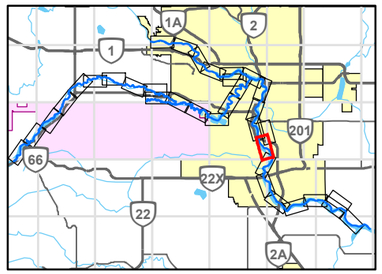
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:11:20 PM

Classification: Public

SHEET 10 ↑

SHEET 12 ↓

LEGEND

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

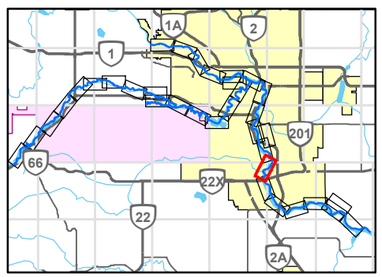
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 746 M^3/S
BOW RIVER BELOW FISH CREEK = 762 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:12:48 PM

Classification: Public

LEGEND

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

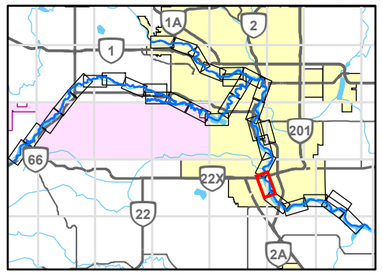
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 762 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:14:18 PM

DRAFT

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

DRAFT

LEGEND

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

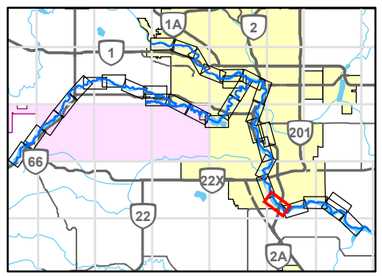
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 762 M^3/S
BOW RIVER BELOW PINE CREEK = 770 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:15:59 PM

Classification: Public

DRAFT

LEGEND

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

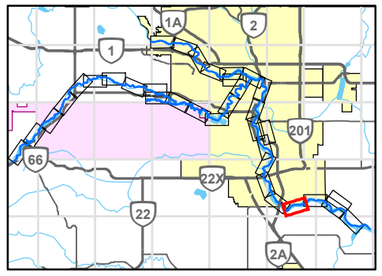
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 770 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

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

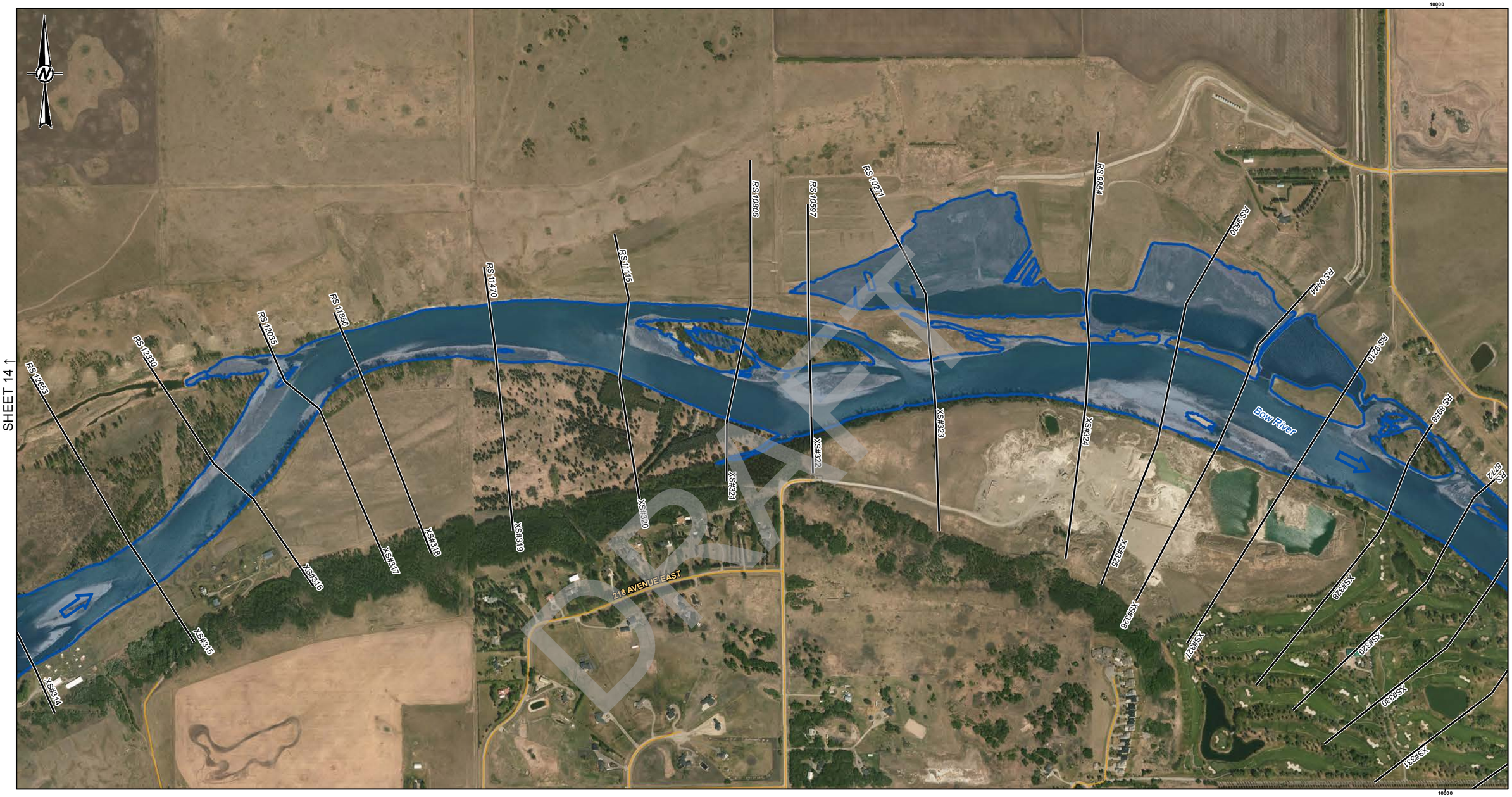
25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f06y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:17:08 PM

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



DRAFT

LEGEND

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

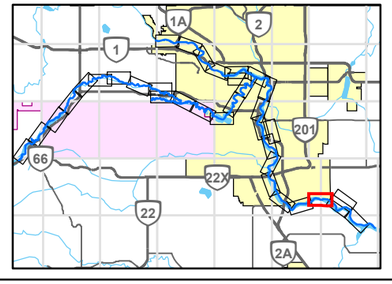
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 770 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 780 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:18:05 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

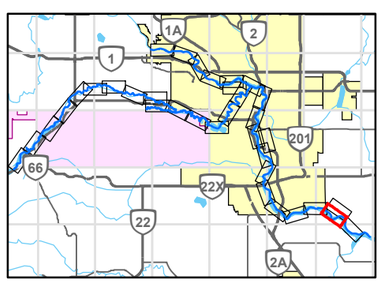
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 780 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

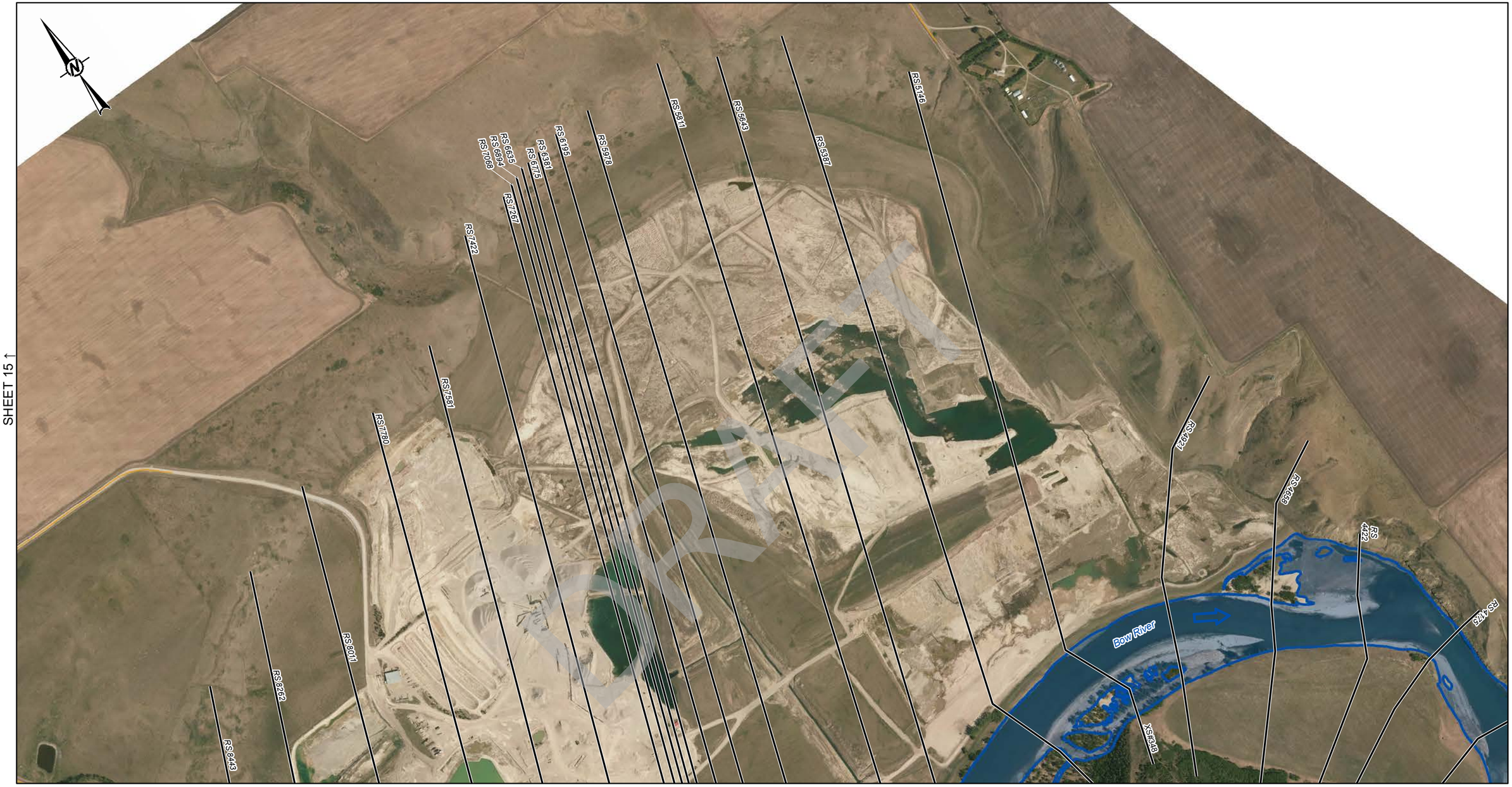
DRAFT

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:19:26 PM

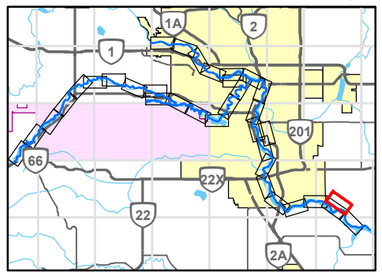
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 780 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:20:28 PM

Classification: Public

SHEET 16 & 17 ↑

RS 473
RS 3900
RS 3711
RS 3529
RS 3275
RS 3097
RS 2906
RS 2673
RS 2501
RS 2336
RS 2111
RS 1871
RS 1506
RS 1150
RS 946
RS 721
RS 491
RS 335
RS 138
RS 133

XS#556
XS#555
XS#547
XS#546
XS#550
XS#360
XS#361
XS#362
XS#363
XS#364
XS#366
XS#367
XS#368
XS#369
XS#370
XS#371

BOW RIVER
DOWNSTREAM
MAPPING BOUNDARY

Highwood River

Bow River

DRAFT

LEGEND

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

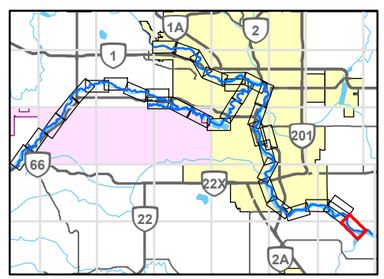
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 780 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

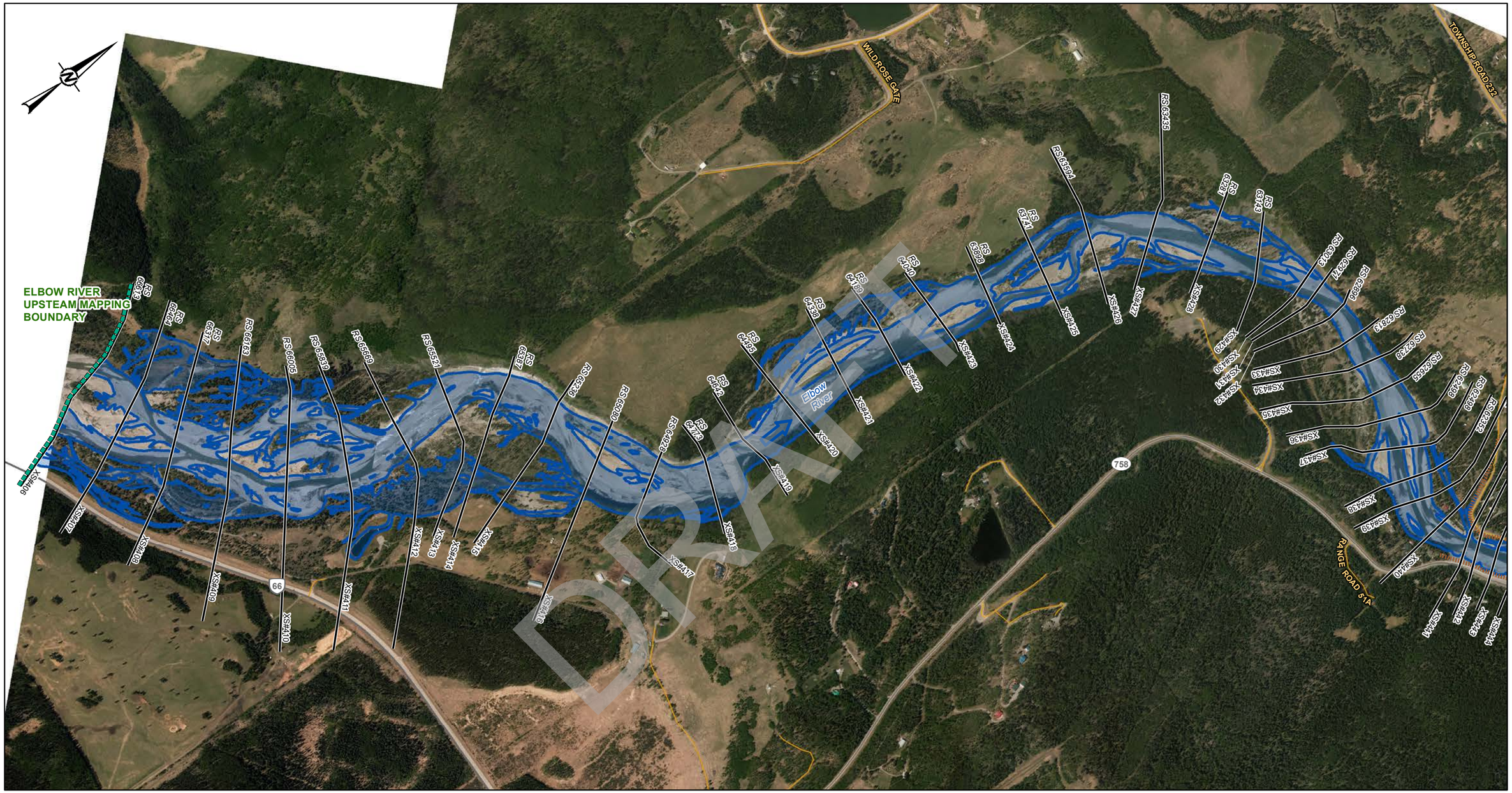
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:21:34 PM

Classification: Public



SHEET 20 ↓

LEGEND

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

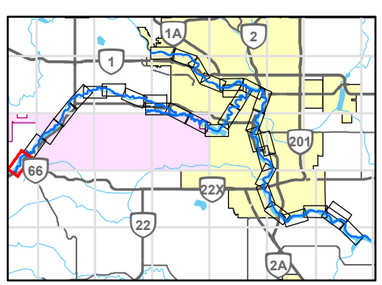
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

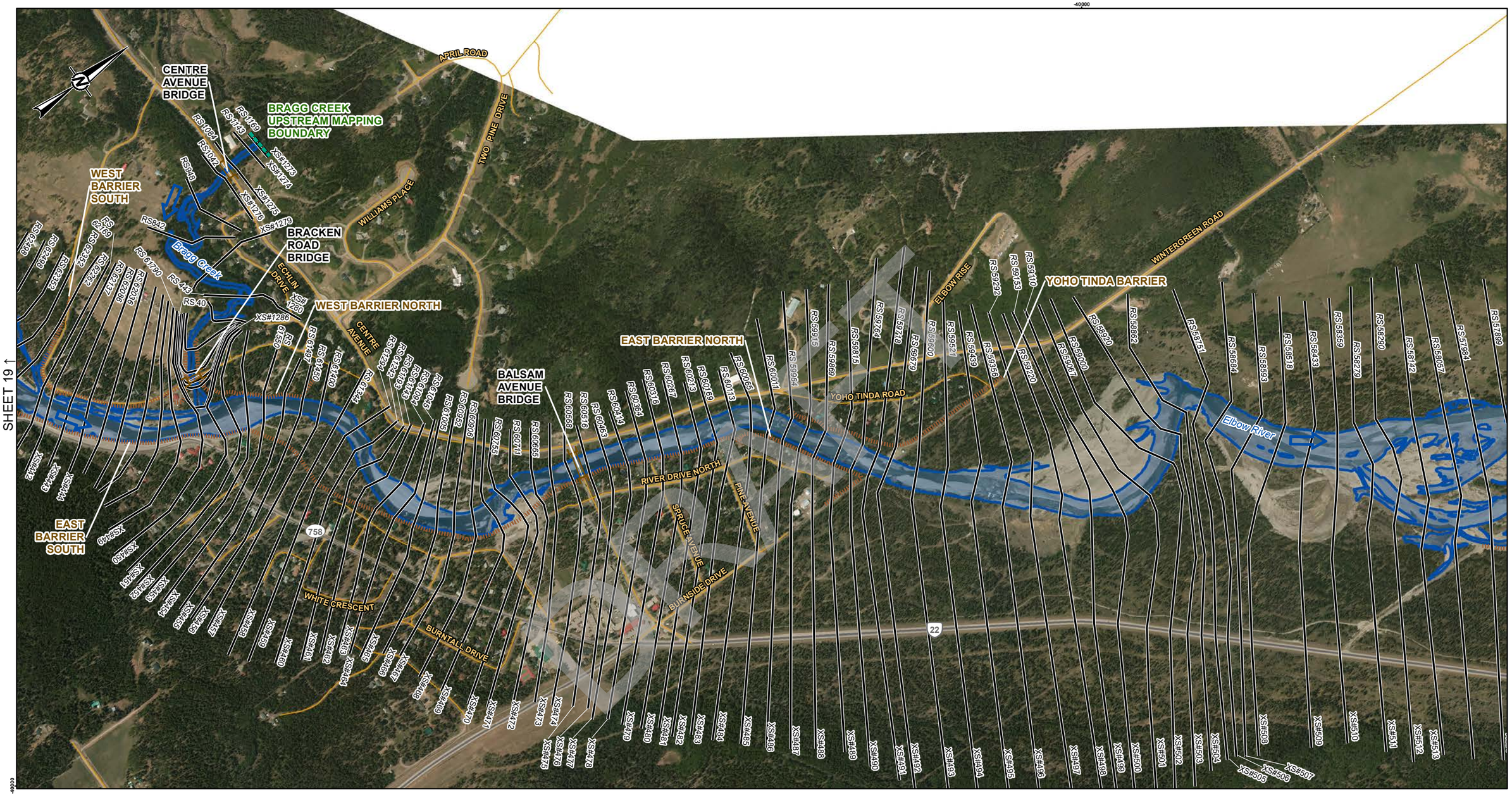
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:34:25 PM

Classification: Public



LEGEND

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

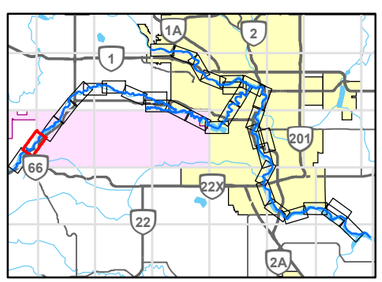
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S
BRAGG CREEK = 12 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

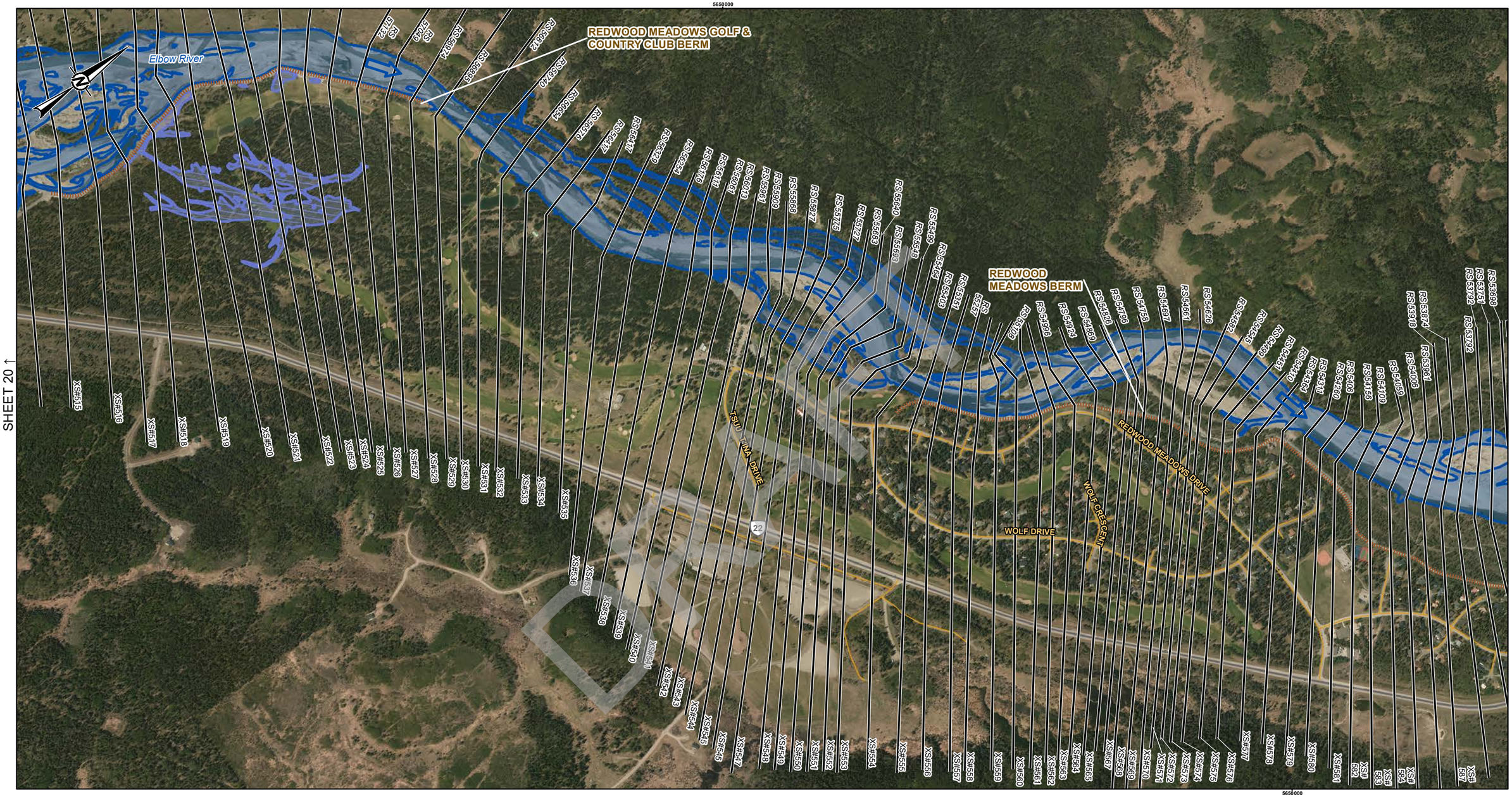
TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:27:10 PM

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

Classification: Public



LEGEND

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

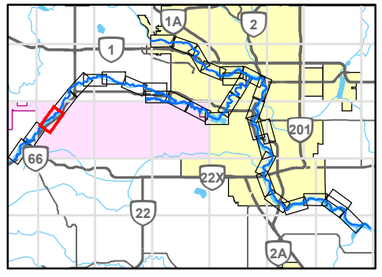
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

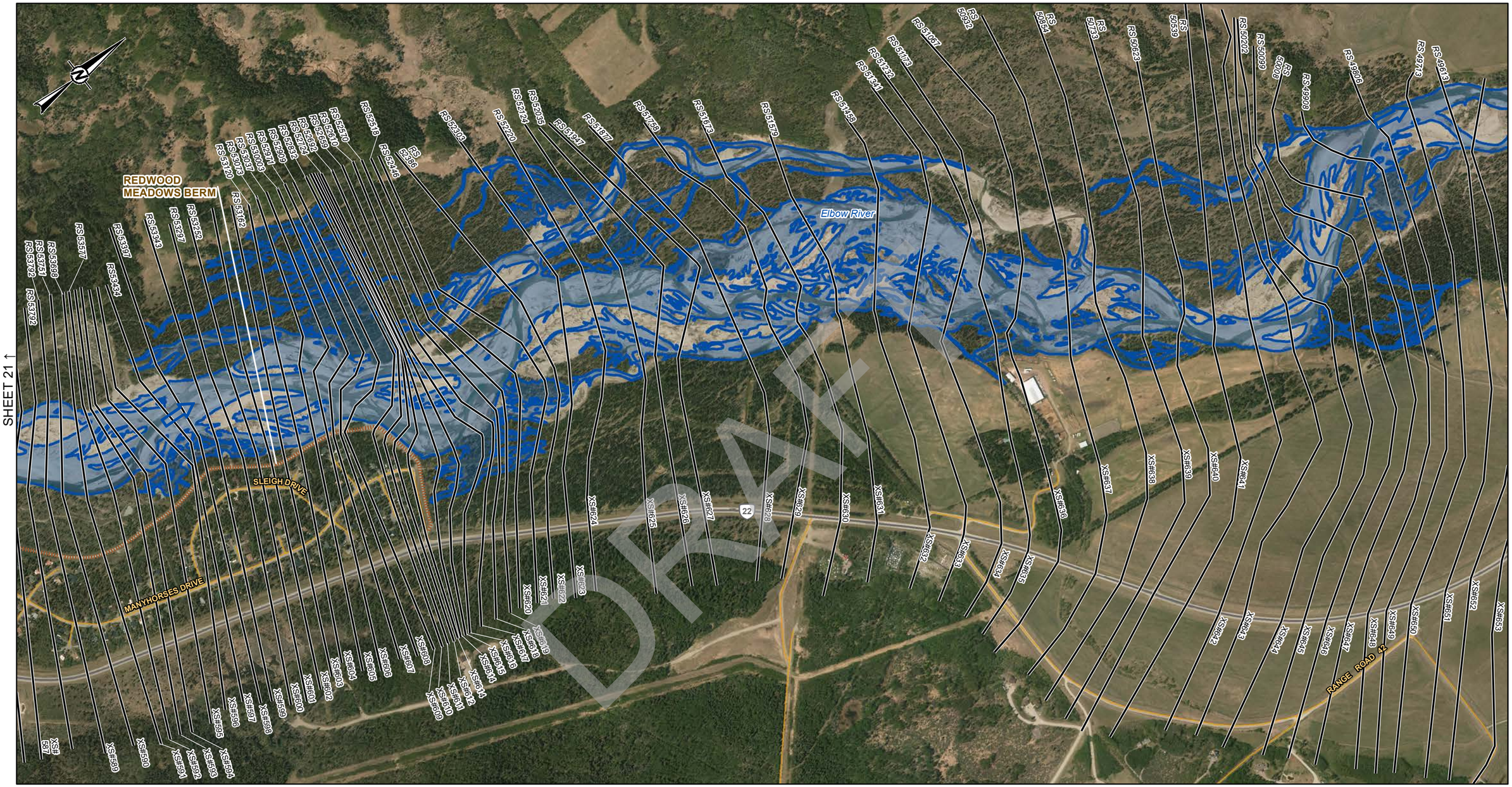
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:56 PM

Classification: Public



DRAFT

LEGEND

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

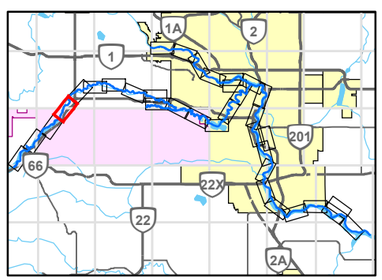
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

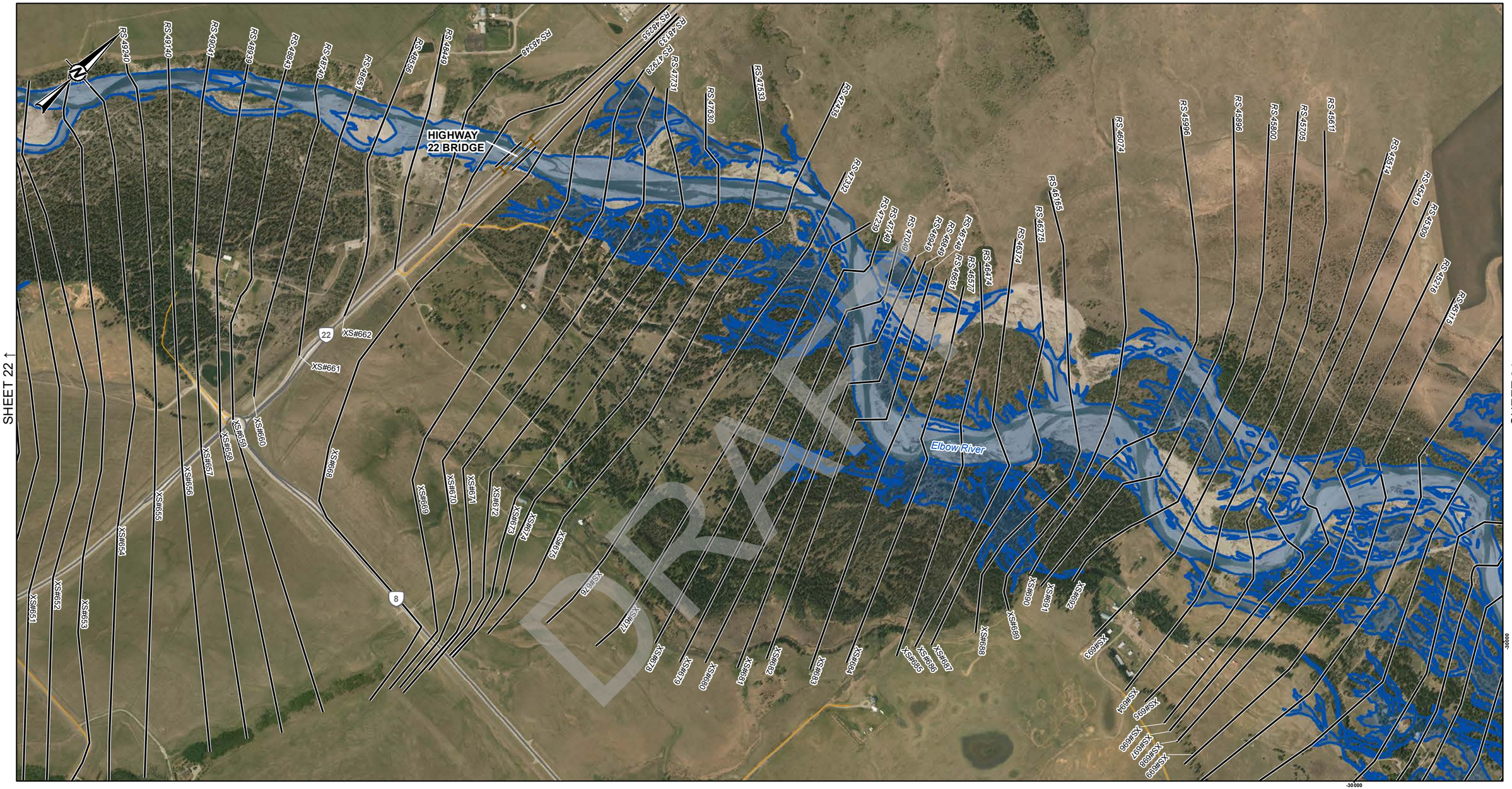
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:32:48 PM



DRAFT

LEGEND

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

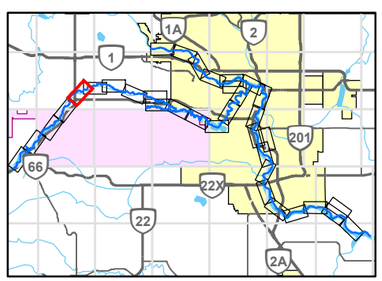
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

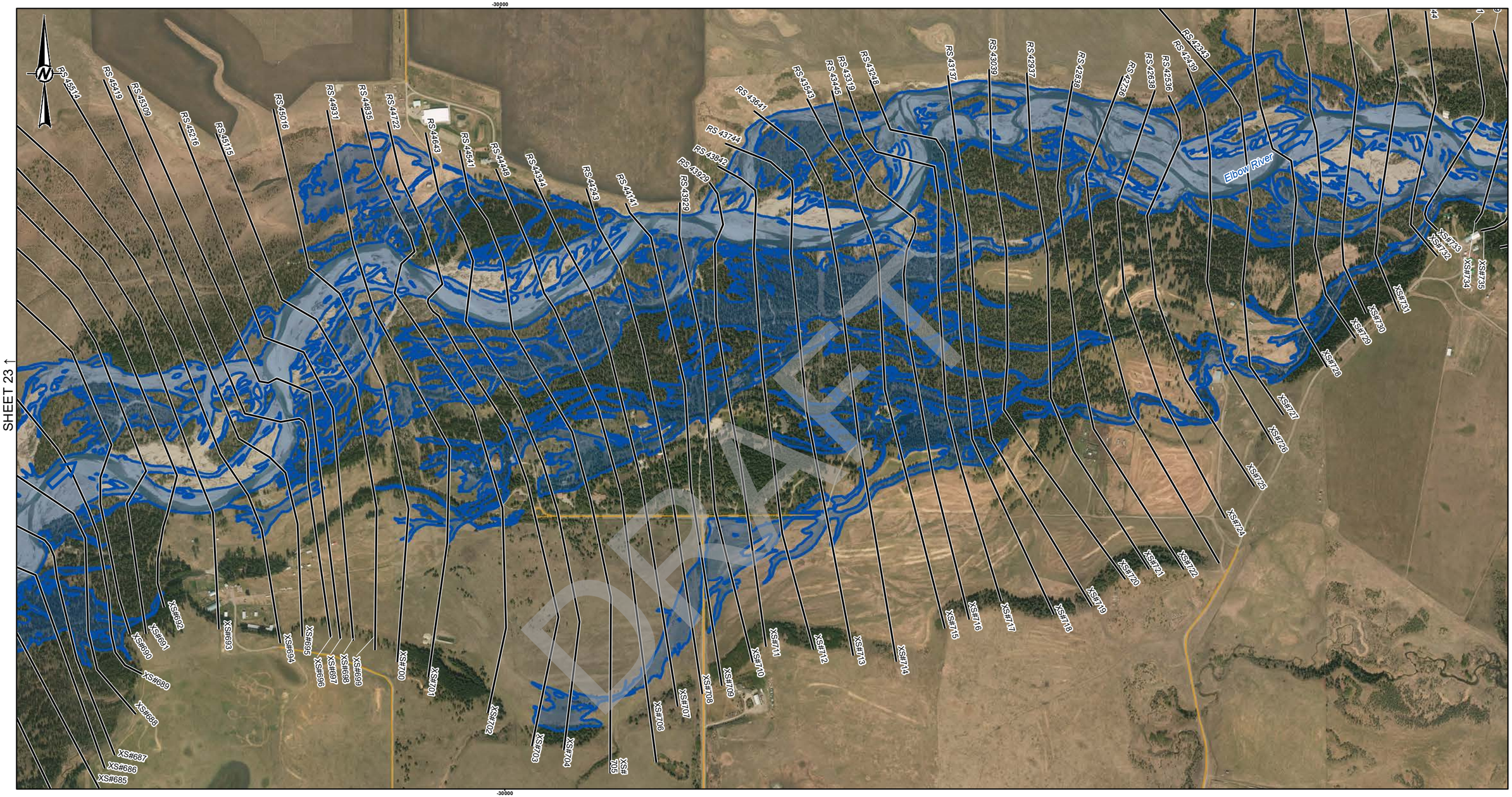
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:35:42 PM

Classification: Public



LEGEND

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

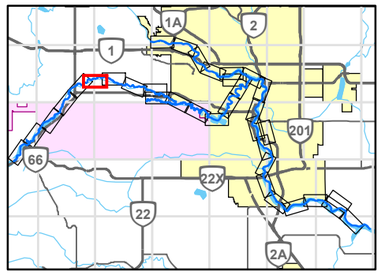
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

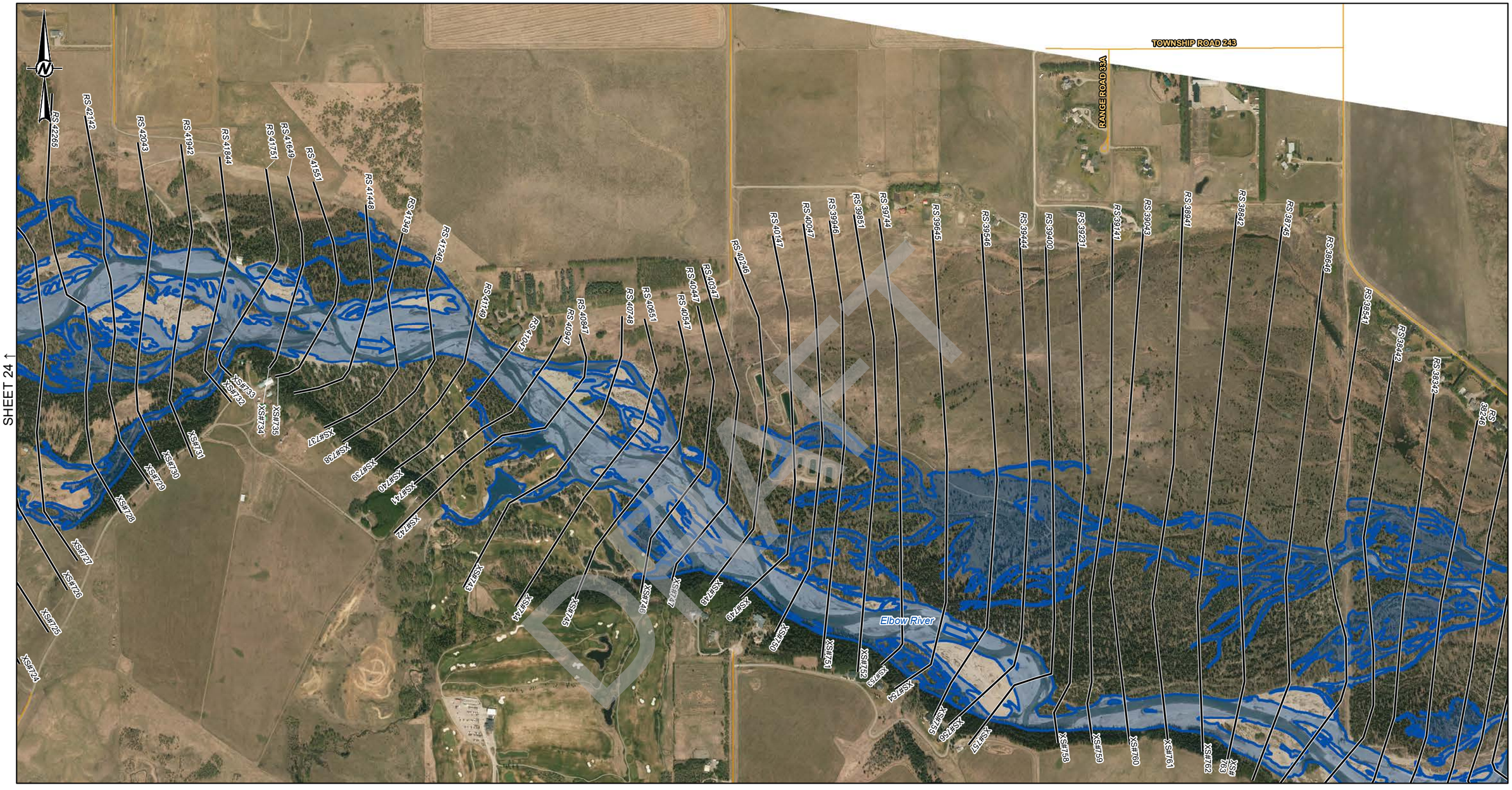
TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:38:16 PM

Classification: Public



LEGEND

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

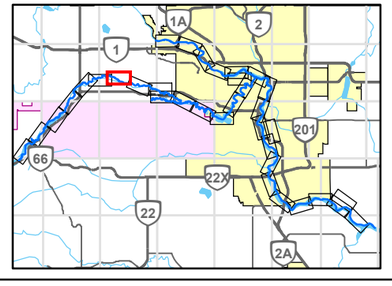
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:40:21 PM

Classification: Public

DRAFT

SHEET 25 ↑

SHEET 27 ↓

Springbank Creek

MOUNTAIN RIVER ESTATES

GRANDVIEW PLACE

Elbow River

ELBOW RIVER POINT

ELBOW RIVER GATE

ELBOW RIVER DRIVE

ELBOW RIVER ROAD

8

RS 38245 RS 38144 RS 38044 RS 37957 RS 37869 RS 37771 RS 37687 RS 37589 RS 37512 RS 37389 RS 37289 RS 37189 RS 37092 RS 36989 RS 36908 RS 36781 RS 36698 RS 36603 RS 36502 RS 36404 RS 36298 RS 36212 RS 36116 RS 36012 RS 35912 RS 35816 RS 35710 RS 35616 RS 35513 RS 35414 RS 35327 RS 35210 RS 35103 RS 35001 RS 34916 RS 34816 RS 34725 RS 34615 RS 34516 RS 34412 RS 34312 RS 34236 RS 34158

XS#67 XS#68 XS#69 XS#70 XS#71 XS#72 XS#73 XS#74 XS#75 XS#76 XS#77 XS#78 XS#79 XS#80 XS#81 XS#82 XS#83 XS#84 XS#85 XS#86 XS#87 XS#88 XS#89 XS#90 XS#91 XS#92 XS#93 XS#94 XS#95 XS#96 XS#97 XS#98 XS#99 XS#800 XS#801 XS#802 XS#803 XS#804 XS#805 XS#806 XS#807 XS#808 XS#809 XS#810 XS#811

LEGEND

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

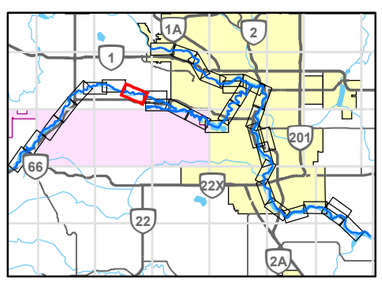
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 155 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

25mm

0

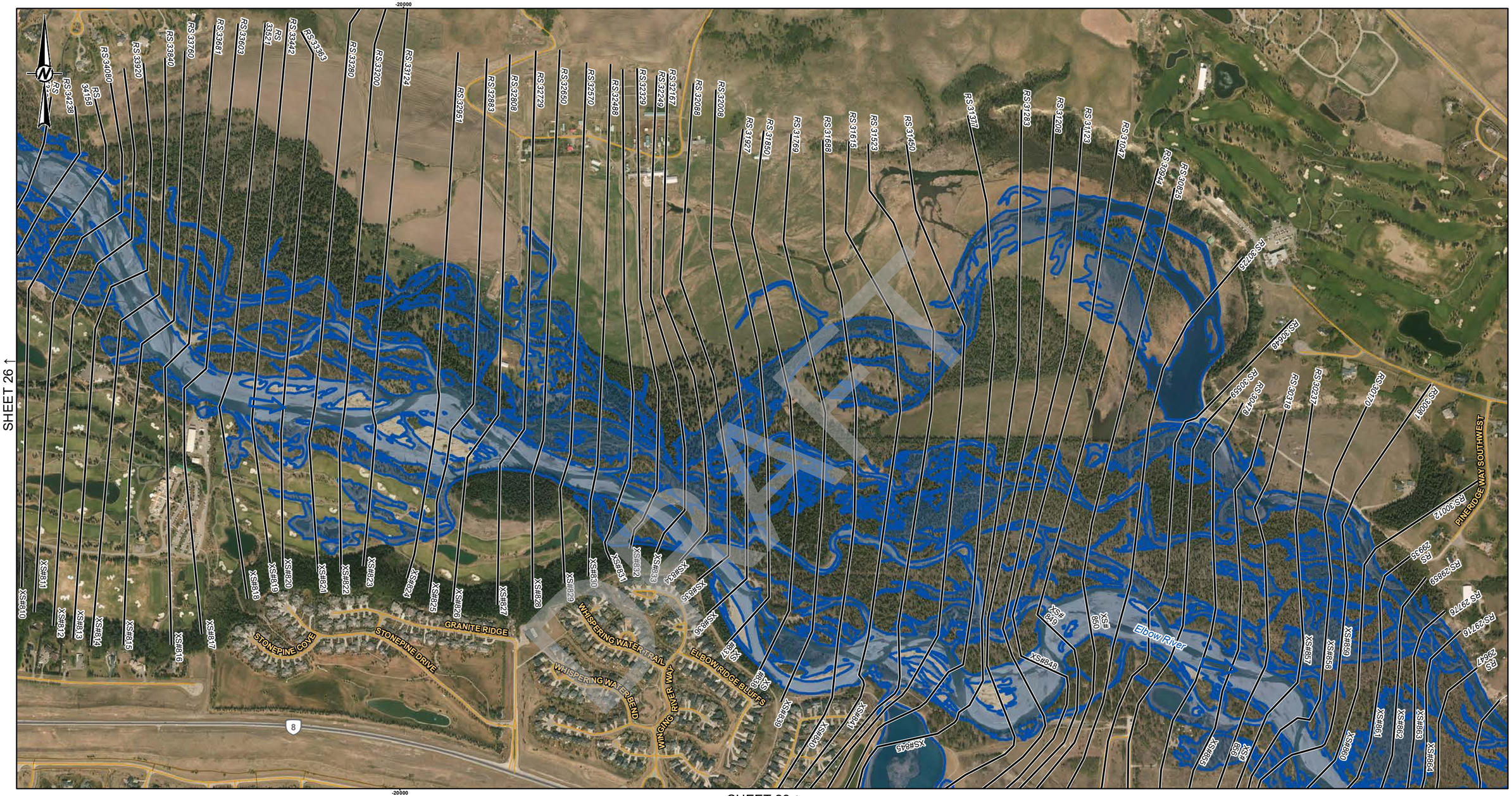
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:43:08 PM

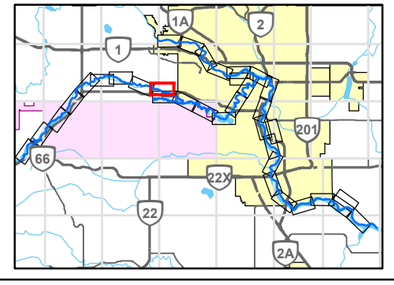
Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓





LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S
LOTT CREEK = 7.14 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

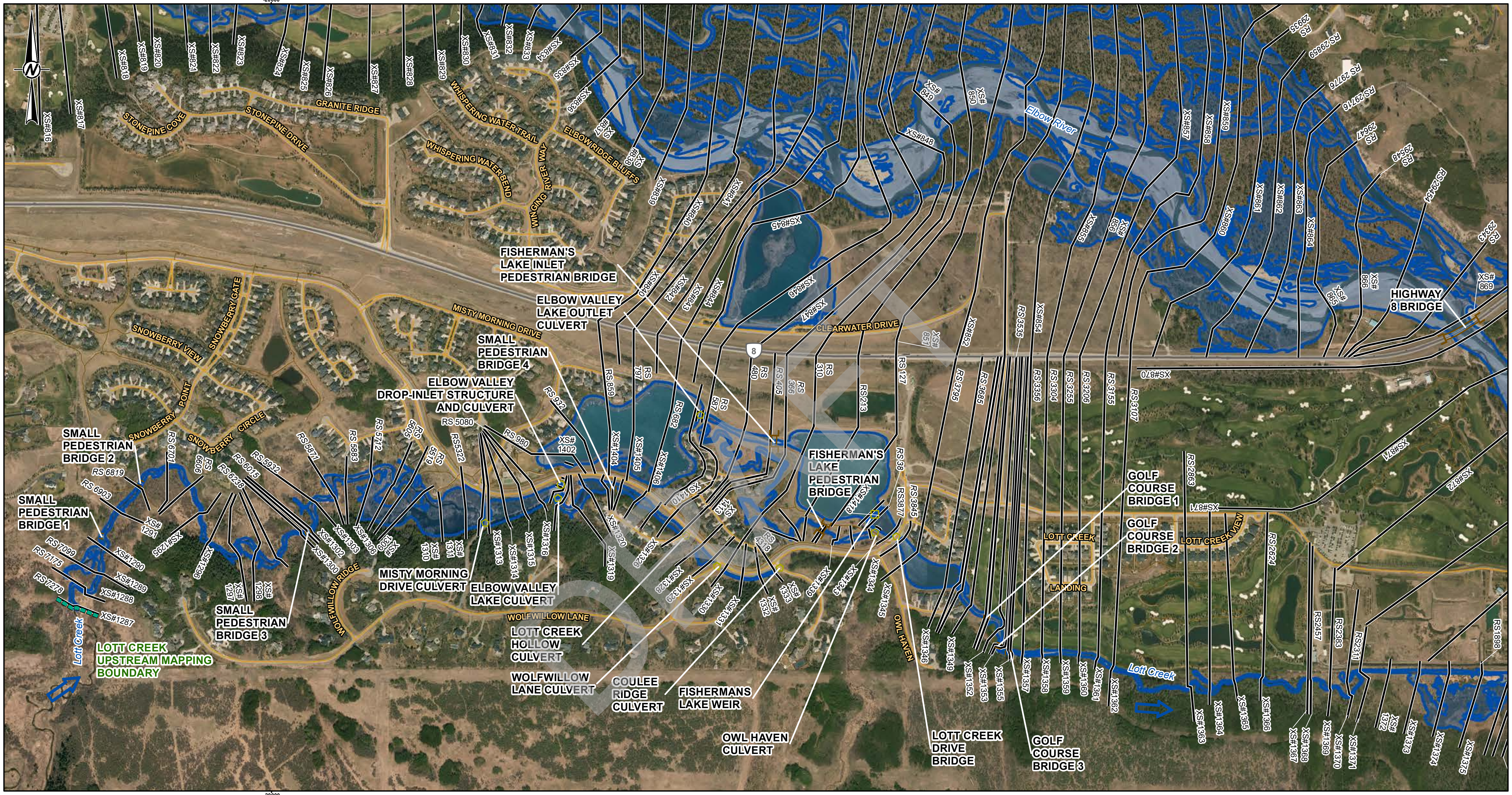
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 ON: 2022-04-29 AT: 1:46:15 PM

Classification: Public

SHEET 27 ↑



LEGEND

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

FLOOD CONTROL STRUCTURE

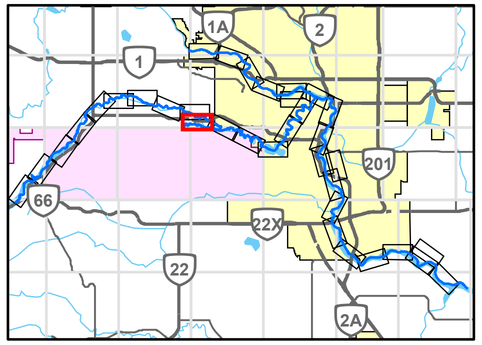
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S
LOTT CREEK = 7.14 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:50:05 PM

Classification: Public

LEGEND

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

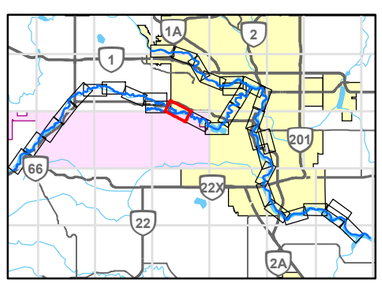
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S
LOTT CREEK = 7.14 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

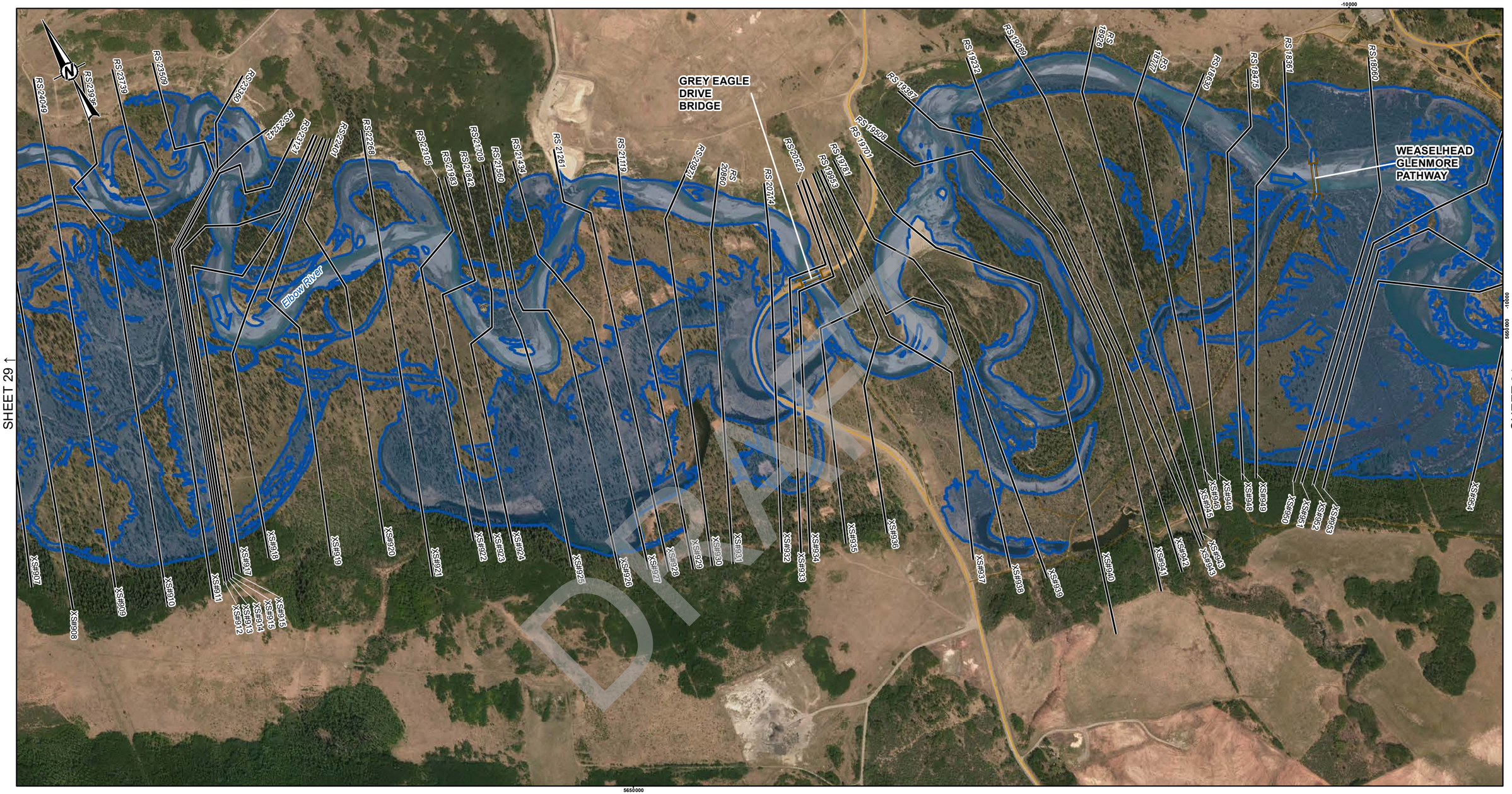
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:54:17 PM

Classification: Public



DRAFT

LEGEND

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

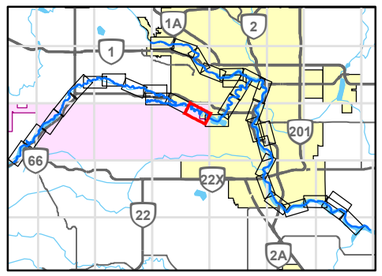
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

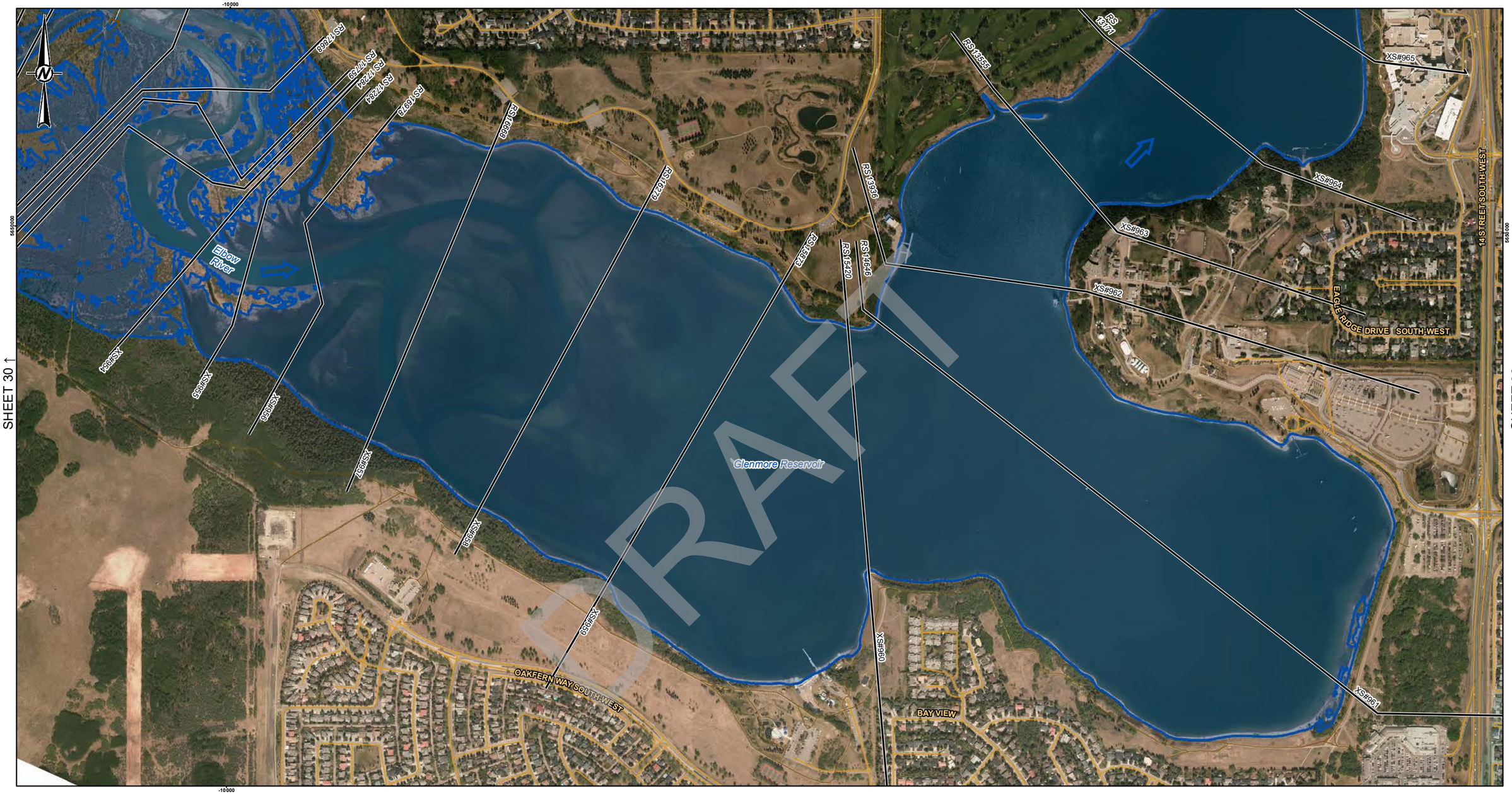
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 11:57:51 PM

Classification: Public



DRAFT

LEGEND

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

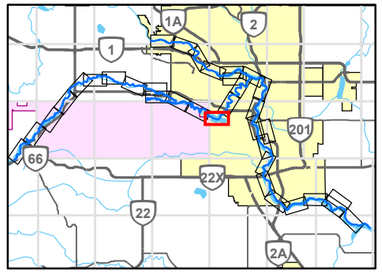
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 157 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:00:48 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓

Glenmore Reservoir

Elbow River

GLENMORE TRAIL BRIDGE

GLENMORE DAM

SANDY BEACH BRIDGE

RIVERDALE AVENUE BRIDGE

ELBOYA BRIDGE

BRITANNIA DRIVE SOUTH-WEST

IMPERIAL WAY SOUTH-WEST

CRESCENT BOULEVARD SOUTH-WEST

50 AVENUE SOUTH-WEST

14A STREET SOUTH-WEST

LONGRIDGE DRIVE SOUTH-WEST

MASSEY PLACE SOUTH-WEST

BEVERLEY BOULEVARD SOUTH-WEST

BALDWIN CRESCENT SOUTH-WEST

BEL-AIRE DRIVE SOUTH-WEST

MALIBOU ROAD SOUTH-WEST

KLONDIKE AVENUE SOUTH-WEST

GLENMORE TRAIL SOUTH-WEST

14 STREET SOUTH-WEST

ELBOW DRIVE SOUTH-WEST

55 AVENUE SOUTH-WEST

56 AVENUE SOUTH-WEST

6 STREET SOUTH-WEST

52 AVENUE SOUTH-WEST

51 AVENUE SOUTH-WEST

49 AVENUE SOUTH-WEST

47 AVENUE SOUTH-WEST

4A STREET SOUTH-WEST

5650000

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 157 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm

0

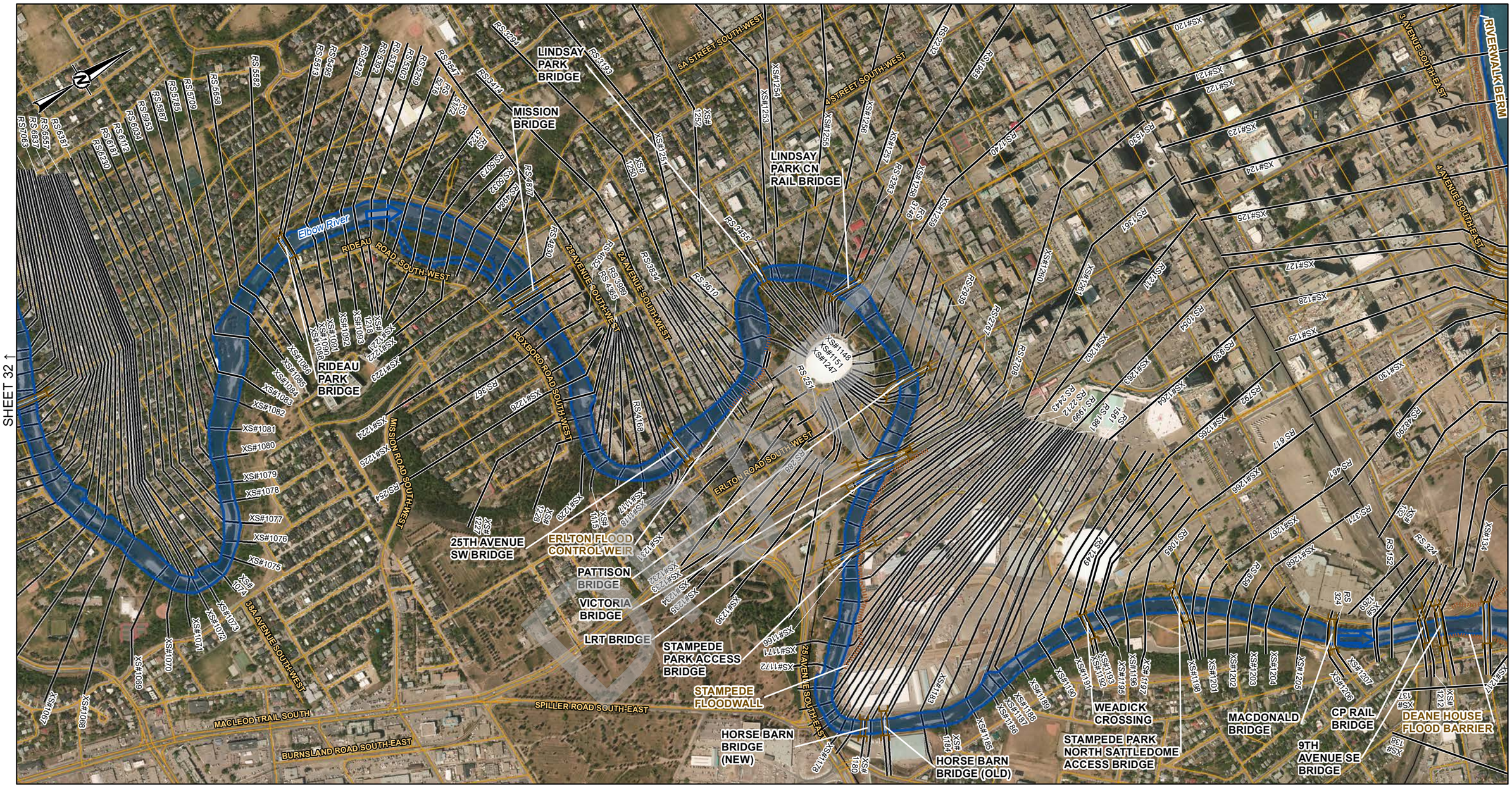
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:04:03 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

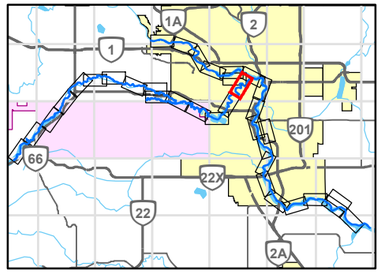
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 157 M^3/S
BOW RIVER BELOW ELBOW RIVER = 739 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

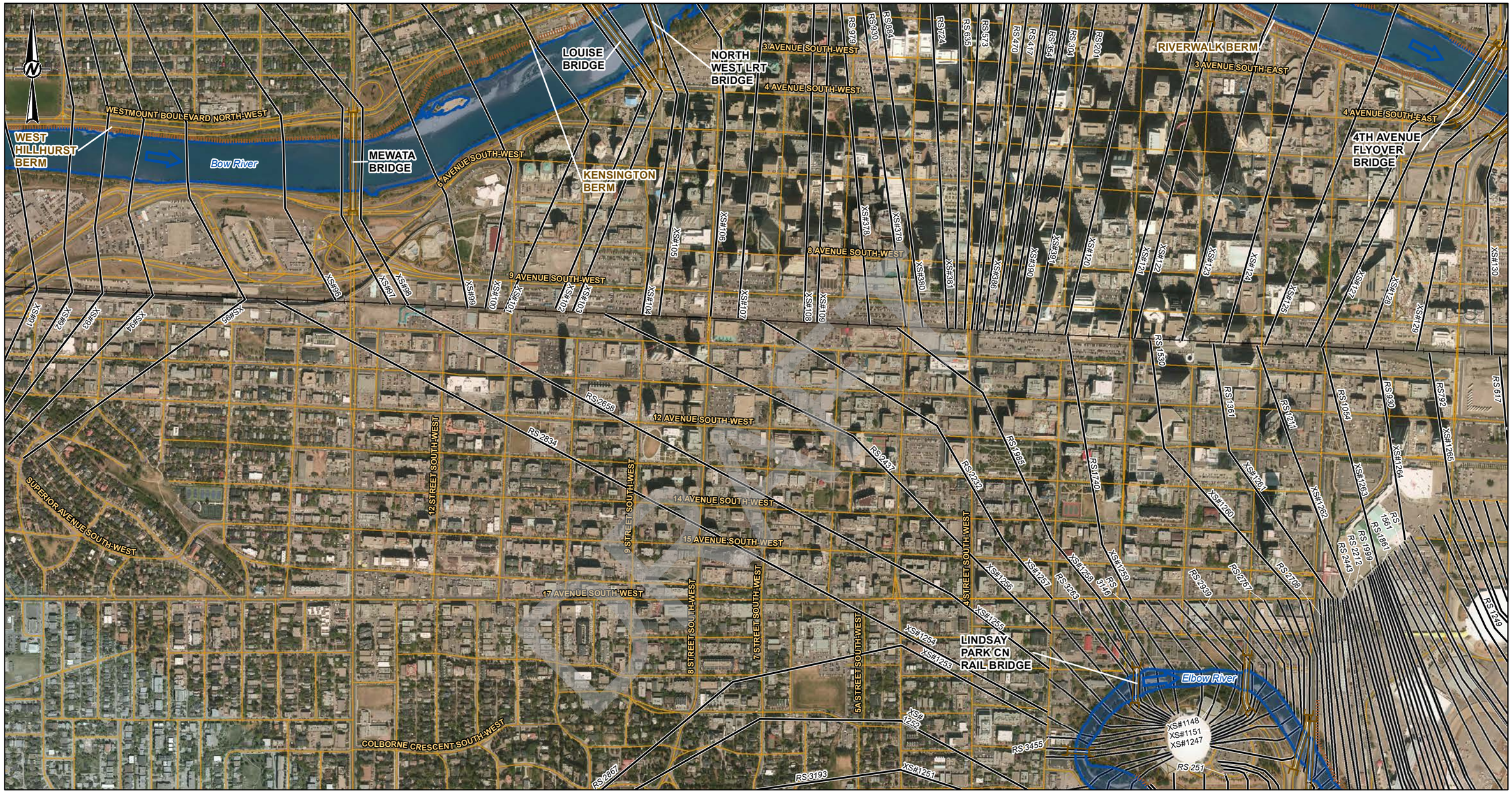
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:05:43 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

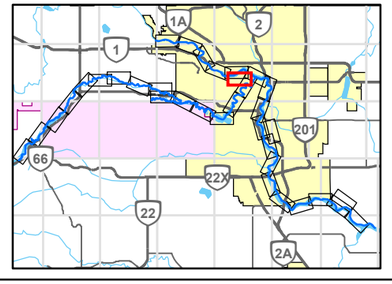
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

5-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 627 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 157 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
5-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:08:34 PM

Classification: Public

10-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

LEGEND

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

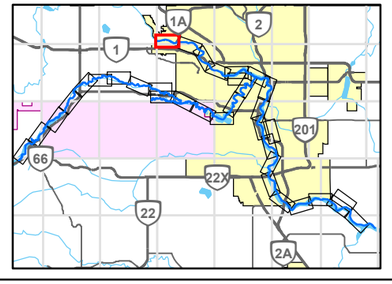
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:03:14 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

Bow River

67 STREET NORTH-WEST
51 AVENUE NORTH-WEST
SILVERVIEW DRIVE NORTH-WEST
49 AVENUE NORTH-WEST
47 AVENUE NORTH-WEST
44 AVENUE NORTH-WEST
43 AVENUE NORTH-WEST
41 AVENUE NORTH-WEST
39 AVENUE NORTH-WEST
37 AVENUE NORTH-WEST
36 AVENUE NORTH-WEST
35 AVENUE NORTH-WEST
34 AVENUE NORTH-WEST
33 AVENUE NORTH-WEST
29 AVENUE NORTH-WEST
BOWGLEN ROAD NORTH-WEST
PALM WAY NORTH-WEST
APPLE WAY NORTH-WEST
WILLOW WAY NORTH-WEST
ASPEN WAY NORTH-WEST
CEDAR WAY NORTH-WEST
ASPEN DRIVE NORTH-WEST
88 STREET NORTH-WEST
86 STREET NORTH-WEST
85 STREET NORTH-WEST
83 STREET NORTH-WEST
81 STREET NORTH-WEST
80 STREET NORTH-WEST
79 STREET NORTH-WEST
77 STREET NORTH-WEST
75 STREET NORTH-WEST
73 STREET NORTH-WEST
72 STREET NORTH-WEST
70 STREET NORTH-WEST
69 STREET NORTH-WEST
67 STREET NORTH-WEST
201
1

RS 63720
RS 63573
RS 63403
RS 63162
RS 62954
RS 62746
RS 62477
RS 62156
RS 61879
RS 64915
RS 64750
RS 64528
RS 64557
RS 64410
RS 63795
RS 64212
RS 66103
RS 65766
RS 66467
RS 66687

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

LEGEND

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

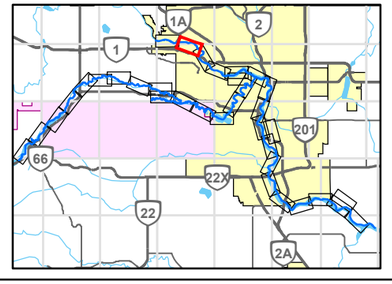
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

25mm

0

Classification: Public

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:04:55 PM

SHEET 2 ↑

SHEET 4 ↓

5660000

-10000

VARSITY ROAD NORTHWEST

MONTALBAN DRIVE NORTH-WEST

23 AVENUE NORTH-WEST

MACKAY ROAD NORTH-WEST

22 AVENUE NORTH-WEST

21 AVENUE NORTH-WEST

VETERANS WAY NORTH-WEST

HARRY BOOTHMAN BRIDGE

TEST NORTHLINE RS57490

MONTGOMERY BERM

HEXTALL BRIDGE

SHOULDICE BRIDGE

TRANS-CANADA HIGHWAY BRIDGE

68 STREET NORTH-WEST

67 STREET NORTH-WEST

29 AVENUE NORTH-WEST

13 AVENUE NORTH-WEST

Bow River

SARCEE TRAIL SOUTH-WEST

PATINA DRIVE SOUTH-WEST

RS 60468 RS 61423 RS 60698 RS 60402 RS 60520 RS 60382 RS 60250 RS 59651 RS 59489 RS 59392 RS 59231 RS 59074 RS 58789 RS 58702 RS 56630 RS 58335 RS 58097 RS 57831 RS 57610 RS 57219 RS 57049 RS 57081 RS 56912 RS 56731 RS 56529 RS 56353

XS#41 XS#42 XS#43 XS#49 XS#52 XS#SX XS#54 XS#55 XS#56 XS#57 XS#58 XS#59 XS#60 XS#61 XS#62 XS#63 XS#64 XS#65 XS#66 XS#67 XS#68 XS#69 XS#70 XS#72

5660000

-10000

LEGEND

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

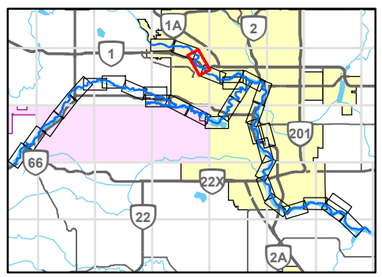
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:07:10 PM

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

-10000

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST HILLHURST BERM

WESTMOUNT ROAD NORTH-WEST

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

-10000

LEGEND

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

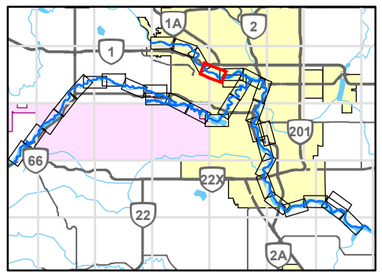
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:10:22 PM

Classification: Public

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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

25mm

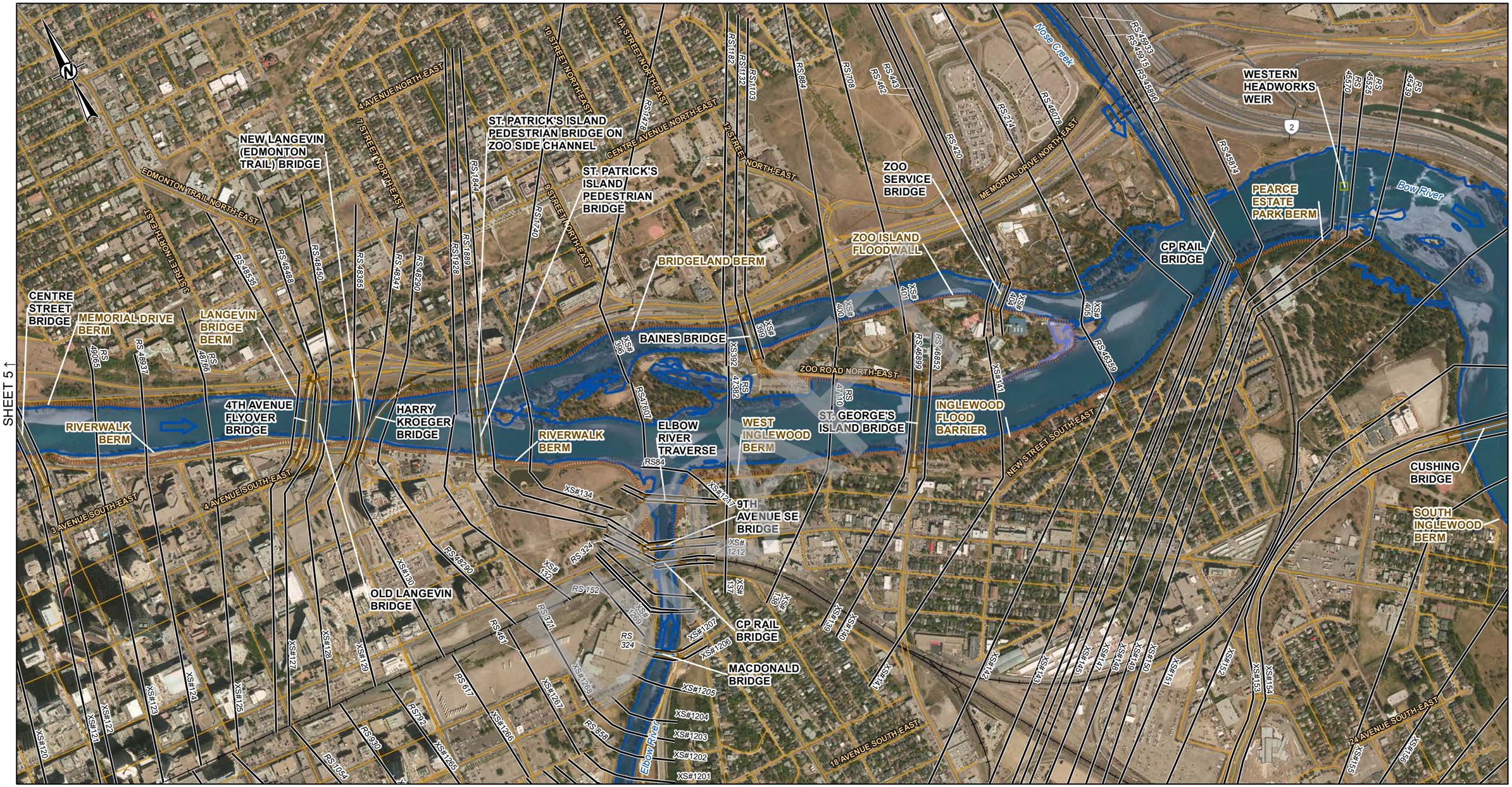
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:12:33 PM

Classification: Public

SHEET 5 ↑

SHEET 7 ↓



LEGEND

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

HYDRAULIC STRUCTURES

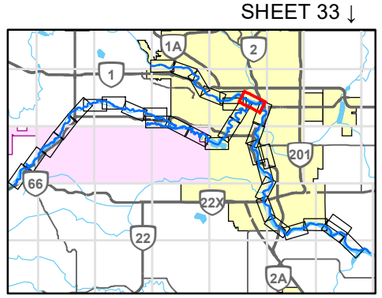
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 253 M^3/S
BOW RIVER BELOW ELBOW RIVER = 996 M^3/S
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

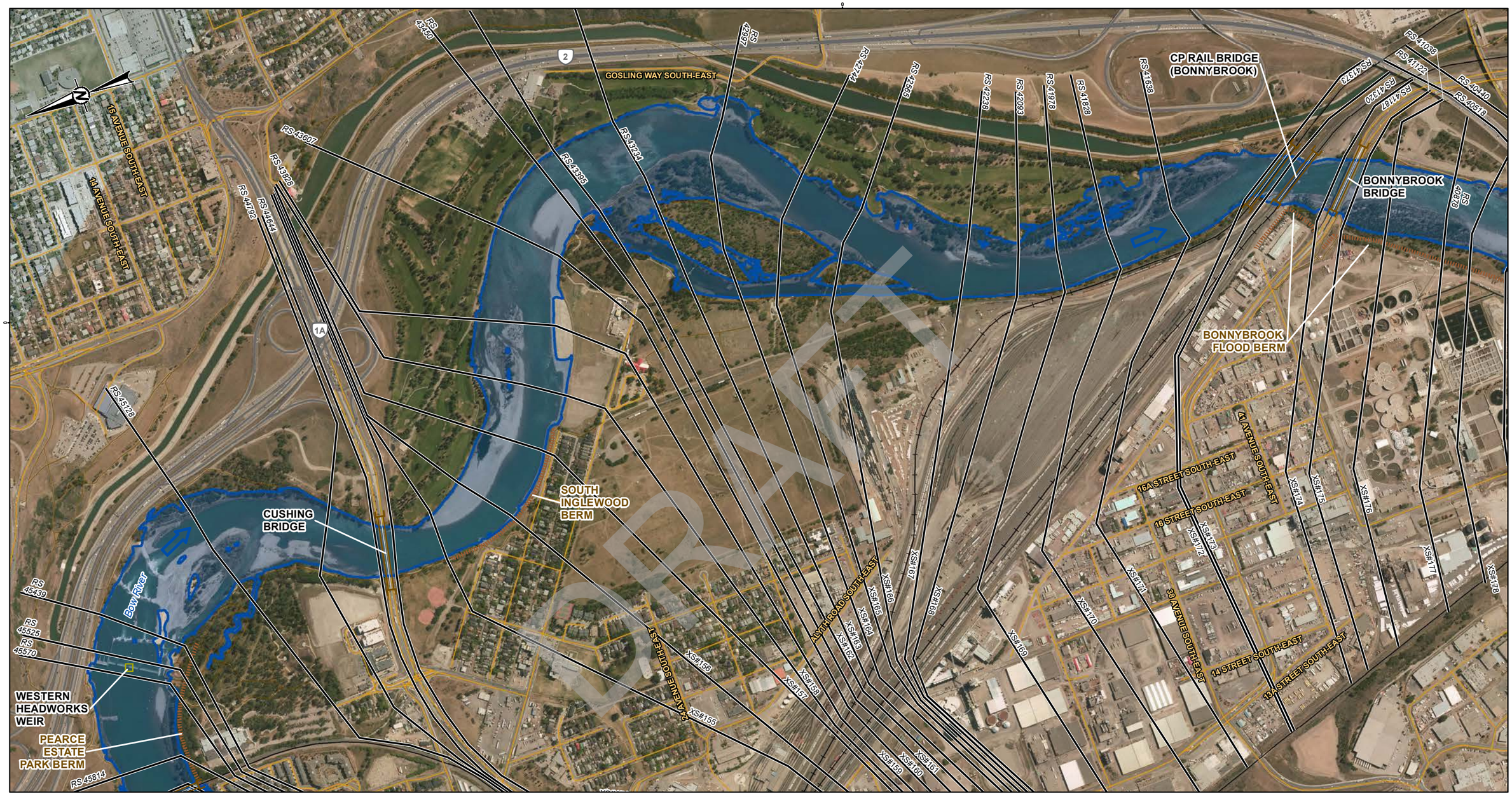
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 010-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:14:56 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

25mm

0

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:17:06 PM

Classification: Public

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40516
RS 40788
RS 40663
RS 40378
RS 40371
RS 40254
RS 40065
RS 39997
RS 39942
RS 39634
RS 39597
RS 39577
RS 39436
RS 39313
RS 39262
RS 39120
RS 38965
RS 38775
RS 38662
RS 38519
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 37663
RS 37530
RS 37447
RS 37260
RS 37047
RS 36829
RS 36741
RS 36303

CALF ROBE BRIDGE
CN RAIL BRIDGE
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
59A AVENUE SOUTH-EAST
19 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
10 STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

Bow River

560
2
8

XS#178 XS#179 XS#180 XS#181 XS#182 XS#183 XS#184 XS#185 XS#186 XS#187 XS#188 XS#189 XS#190 XS#191 XS#192 XS#193 XS#194 XS#195 XS#196 XS#197 XS#198 XS#199 XS#200 XS#201 XS#202 XS#203 XS#204 XS#205 XS#206 XS#207 XS#208 XS#209 XS#210 XS#211

5650000

LEGEND

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

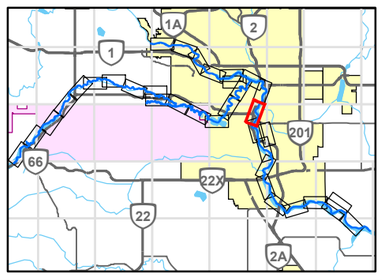
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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

25mm

0

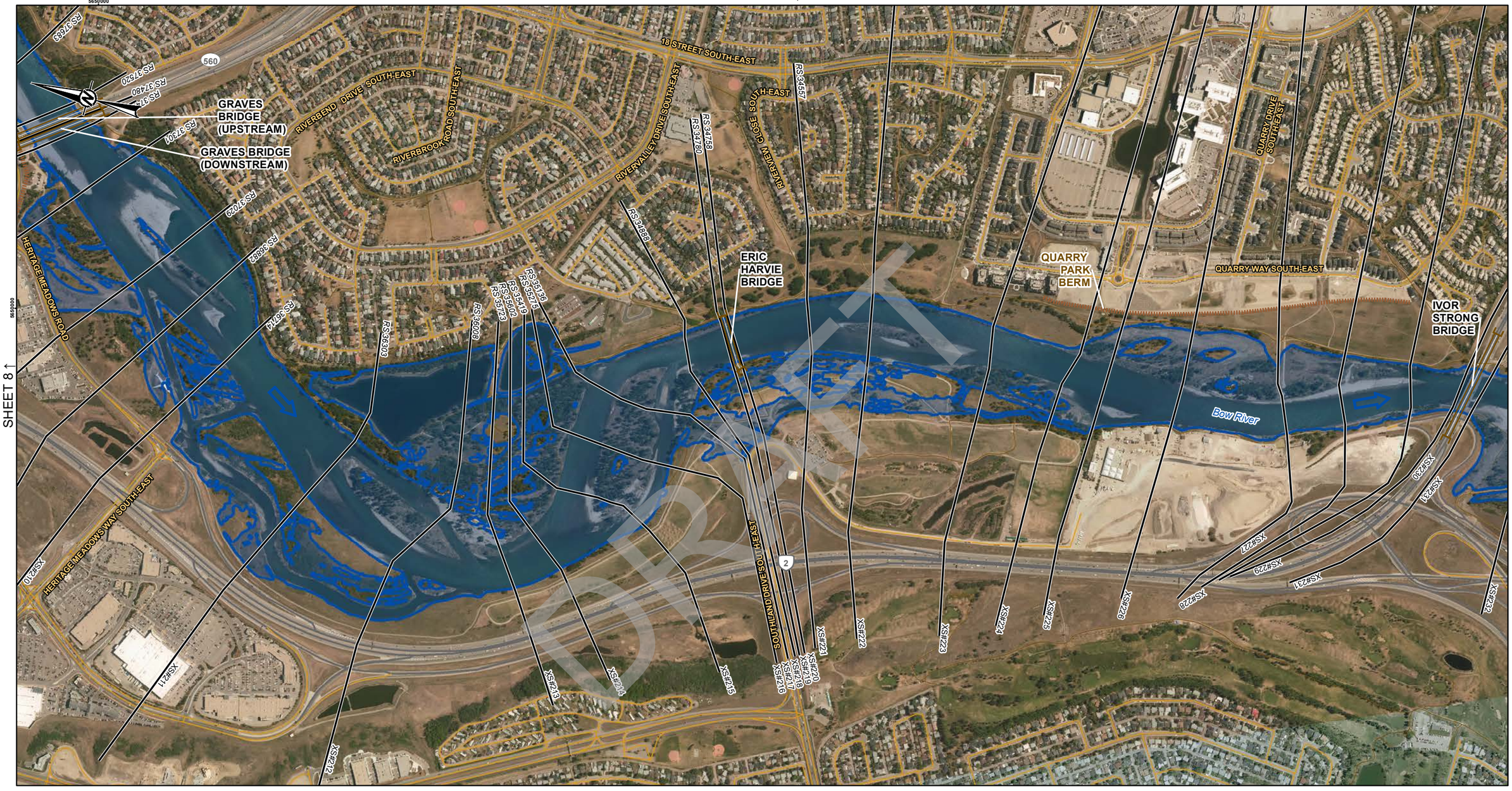
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:19:14 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓



LEGEND

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

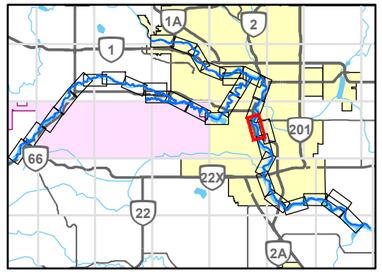
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:21:10 PM

Classification: Public

SHEET 8 ↑

SHEET 10 ↓

SHEPARD ROAD SOUTH-EAST

24 STREET SOUTH-EAST

29 STREET SOUTH-EAST

18 STREET SOUTH-EAST

QUARRY PARK BOULEVARD SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

RS:34956
RS:34957
RS:34758
RS:34780
RS:34071
RS:33853
RS:33754
RS:33547
RS:33286
RS:33171
RS:32929
RS:32797
RS:32729
RS:31629
RS:31279
RS:31186
RS:31220
RS:31348

SHEET 9 ↓

LEGEND

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

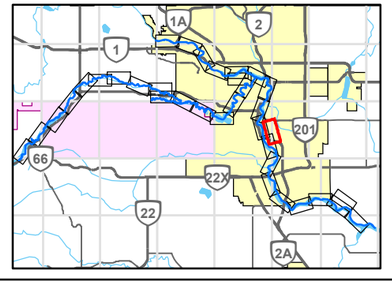
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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

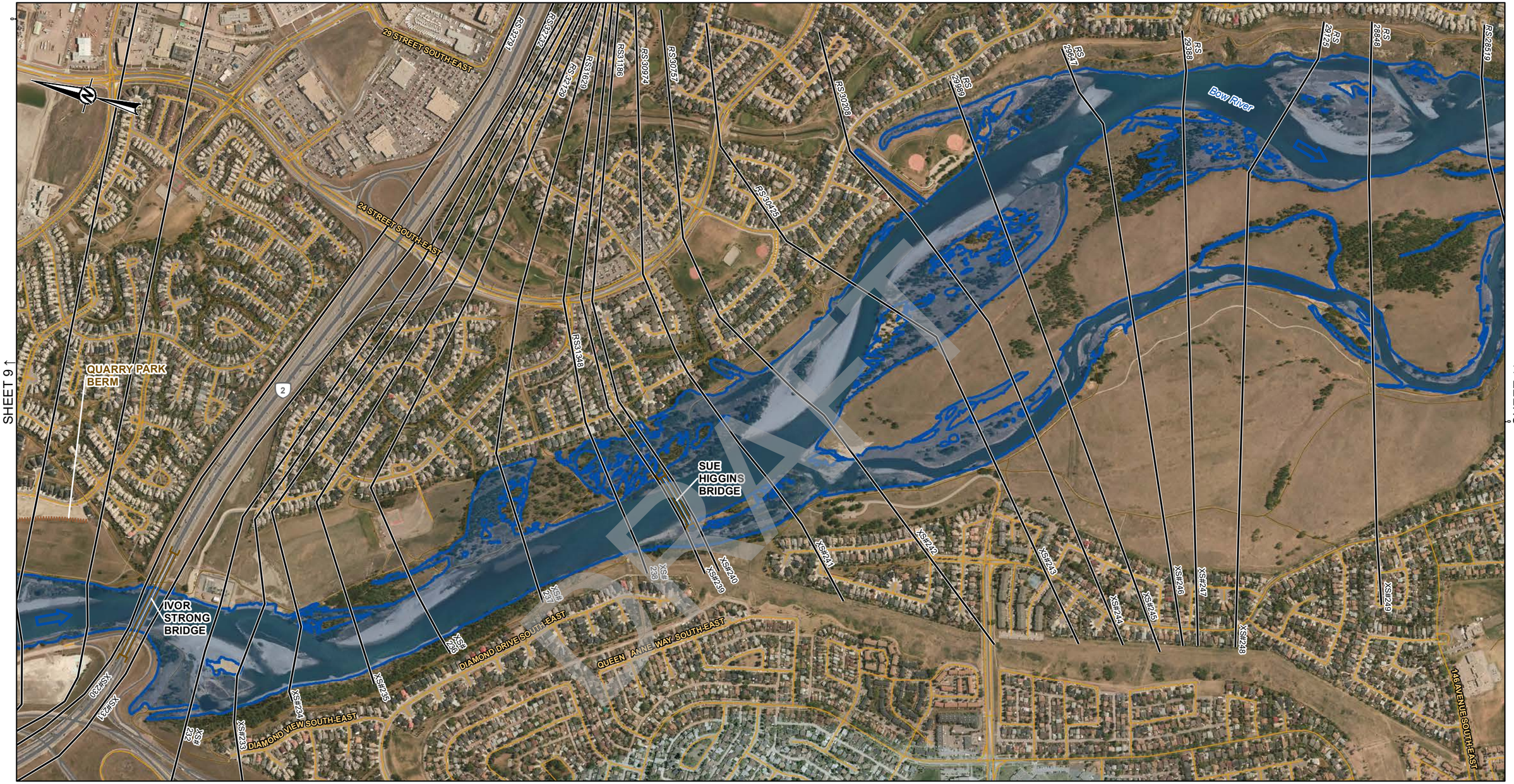
25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:23:01 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓



LEGEND

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

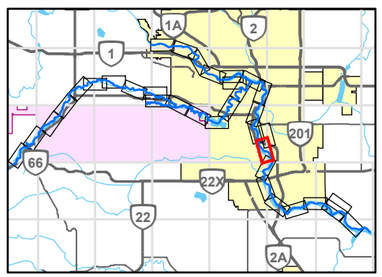
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

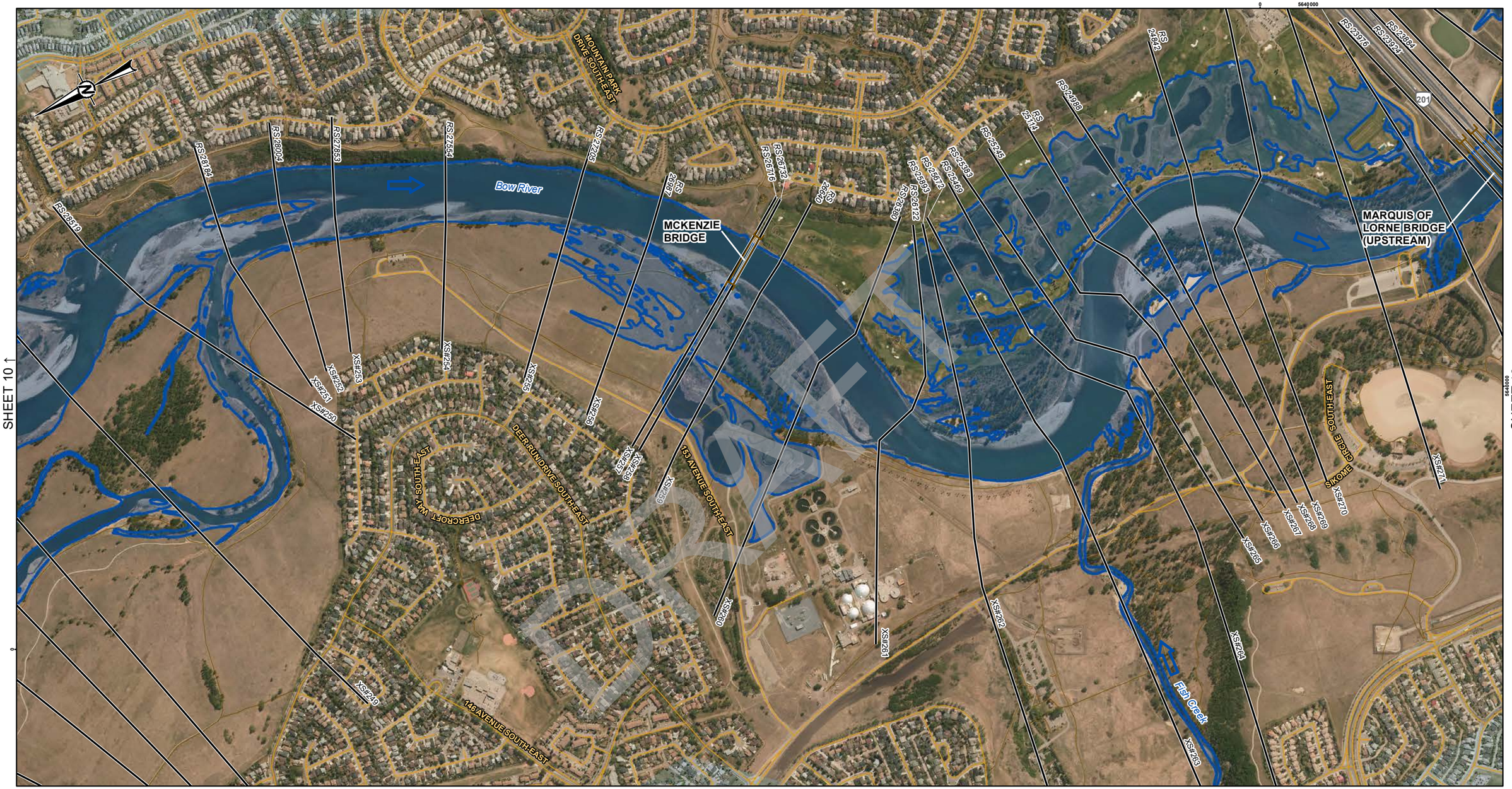
TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:24:55 PM

Classification: Public



LEGEND

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

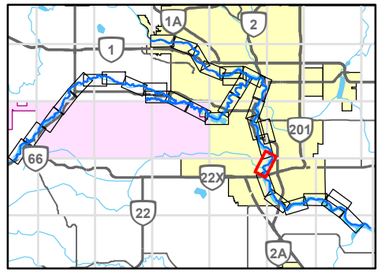
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1010 M^3/S
BOW RIVER BELOW FISH CREEK = 1040 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:27:16 PM

Classification: Public

DRAFT

LEGEND

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

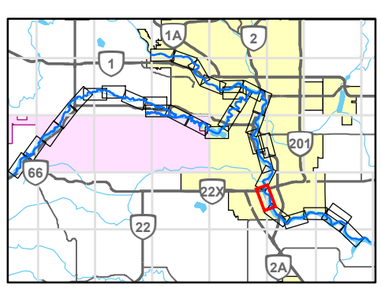
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1040 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:32 PM

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

DRAFT

LEGEND

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

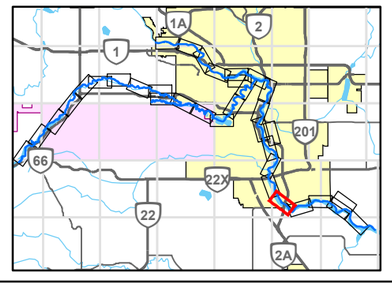
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1040 M^3/S
BOW RIVER BELOW PINE CREEK = 1050 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:32:11 PM

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

Classification: Public

SHEET 13 ↑

SHEET 15 ↓

DRAFT

LEGEND

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

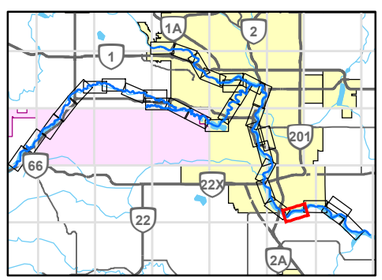
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1050 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

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

25mm

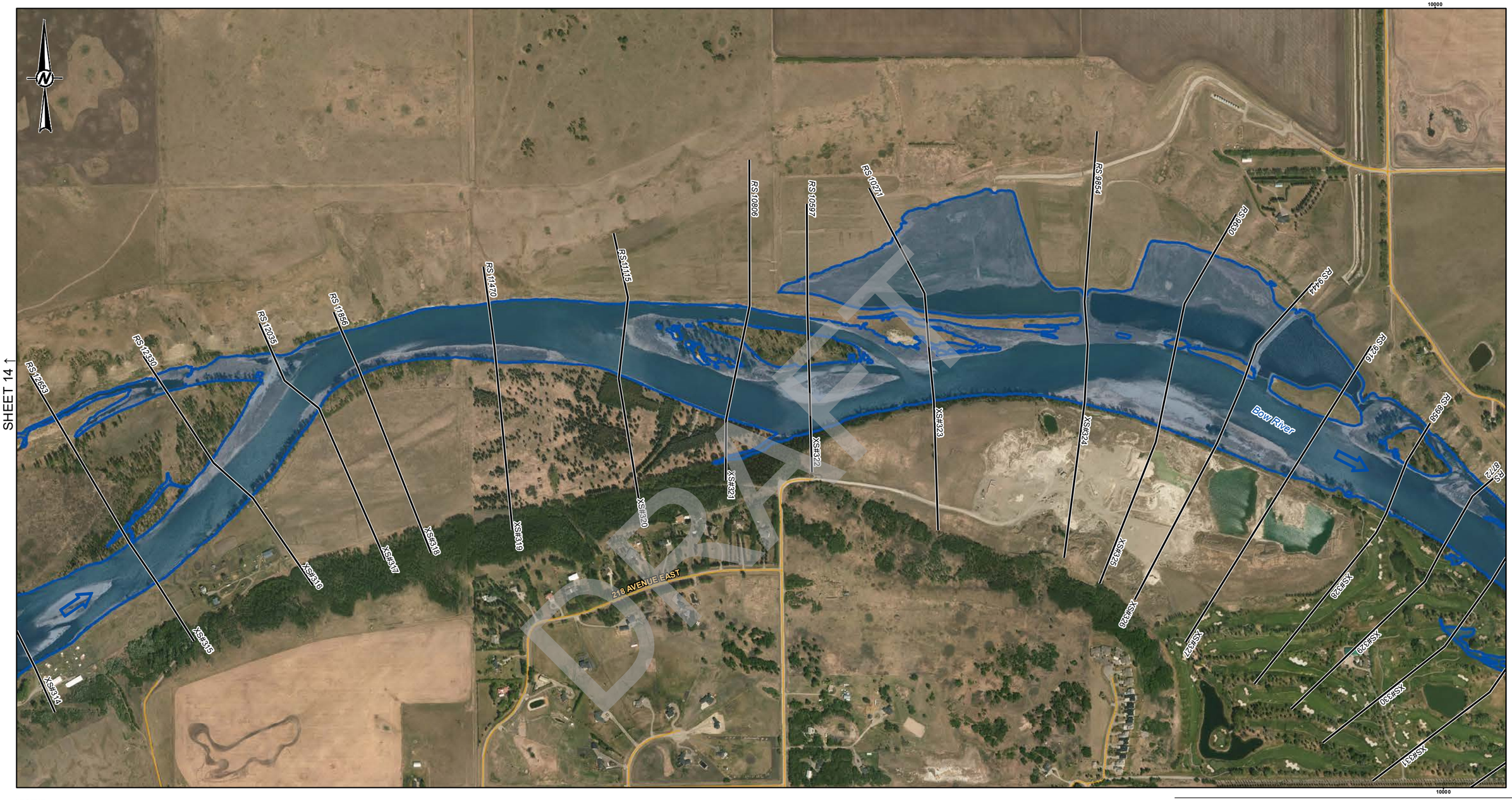
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:34:38 PM

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



LEGEND

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

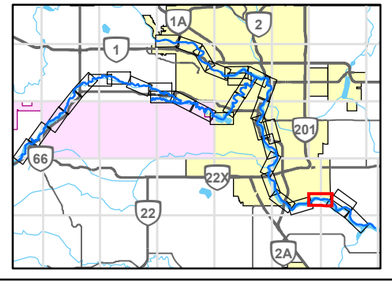
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1050 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 1070 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:36:05 PM

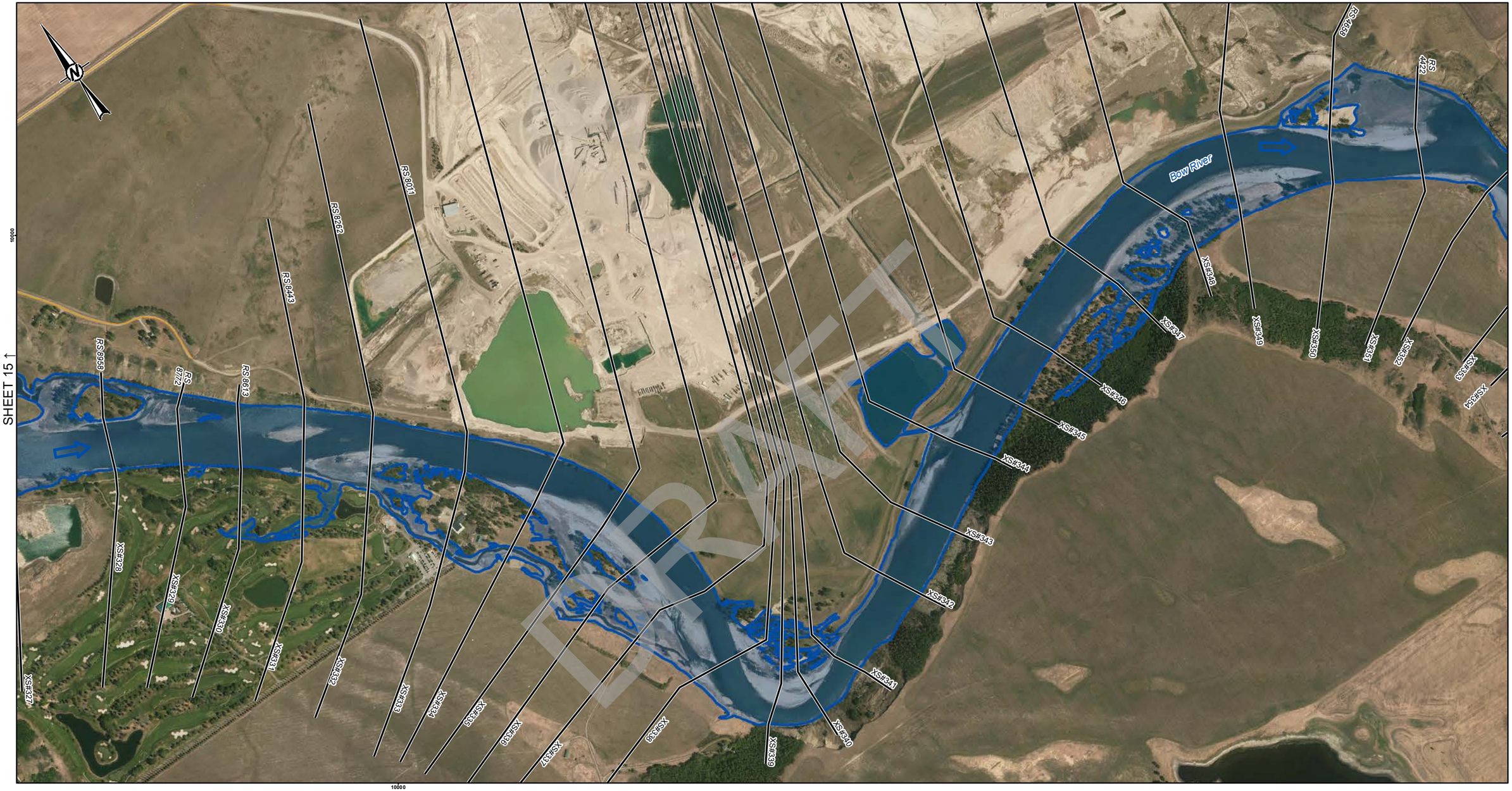
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓



DRAFT

LEGEND

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

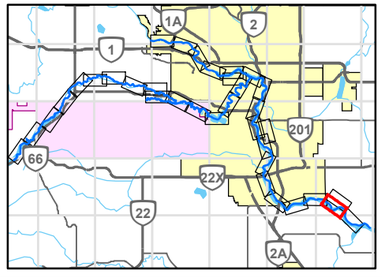
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1070 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

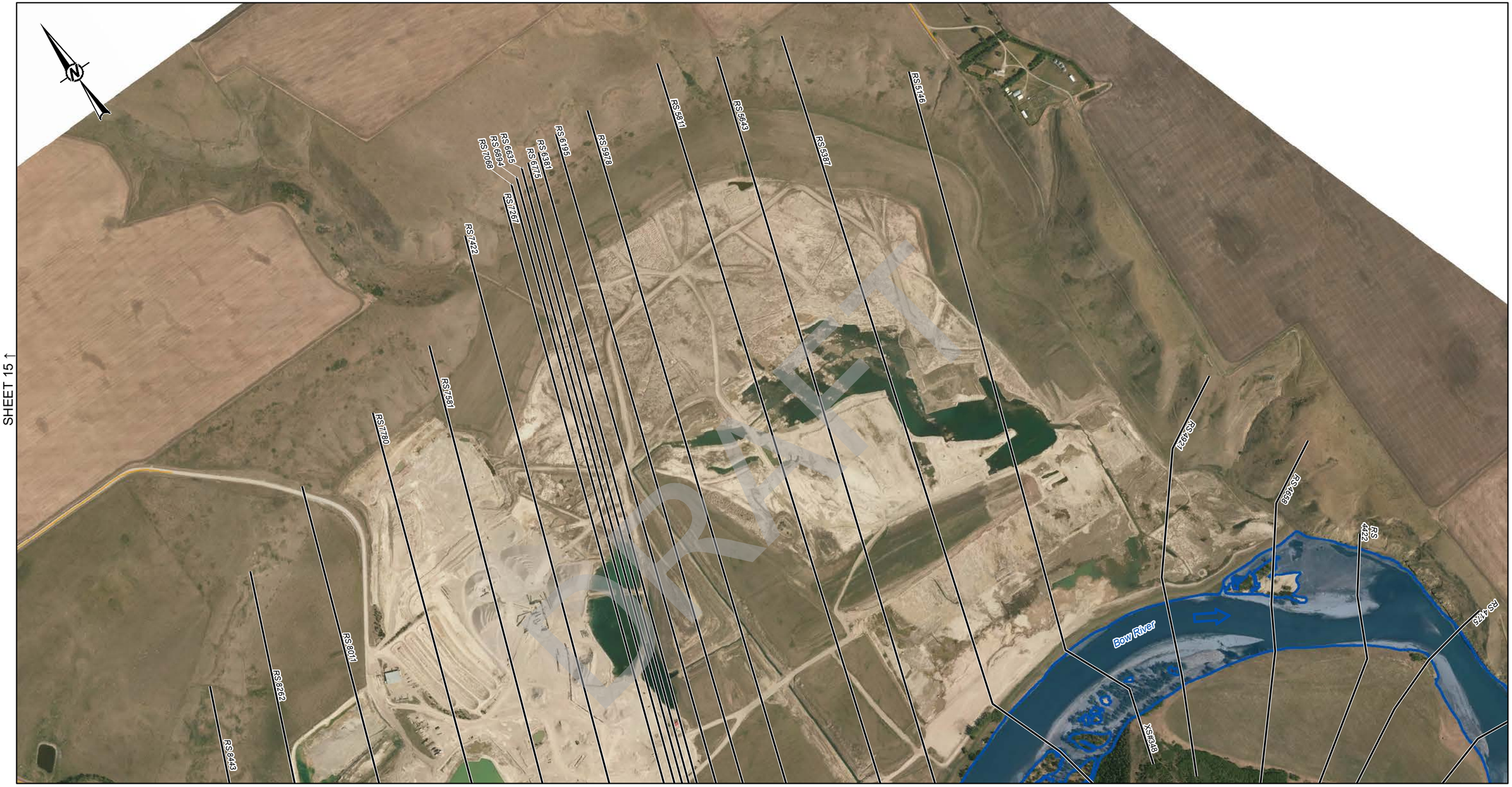
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-v-hundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:38:29 PM

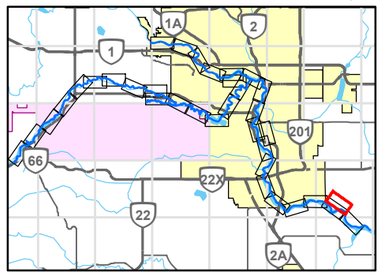
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1070 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:40:38 PM

Classification: Public

DRAFT

LEGEND

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

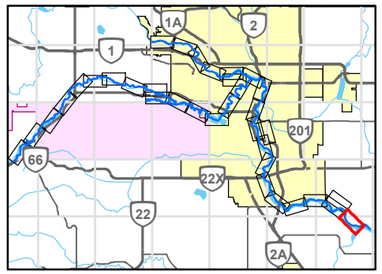
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1070 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

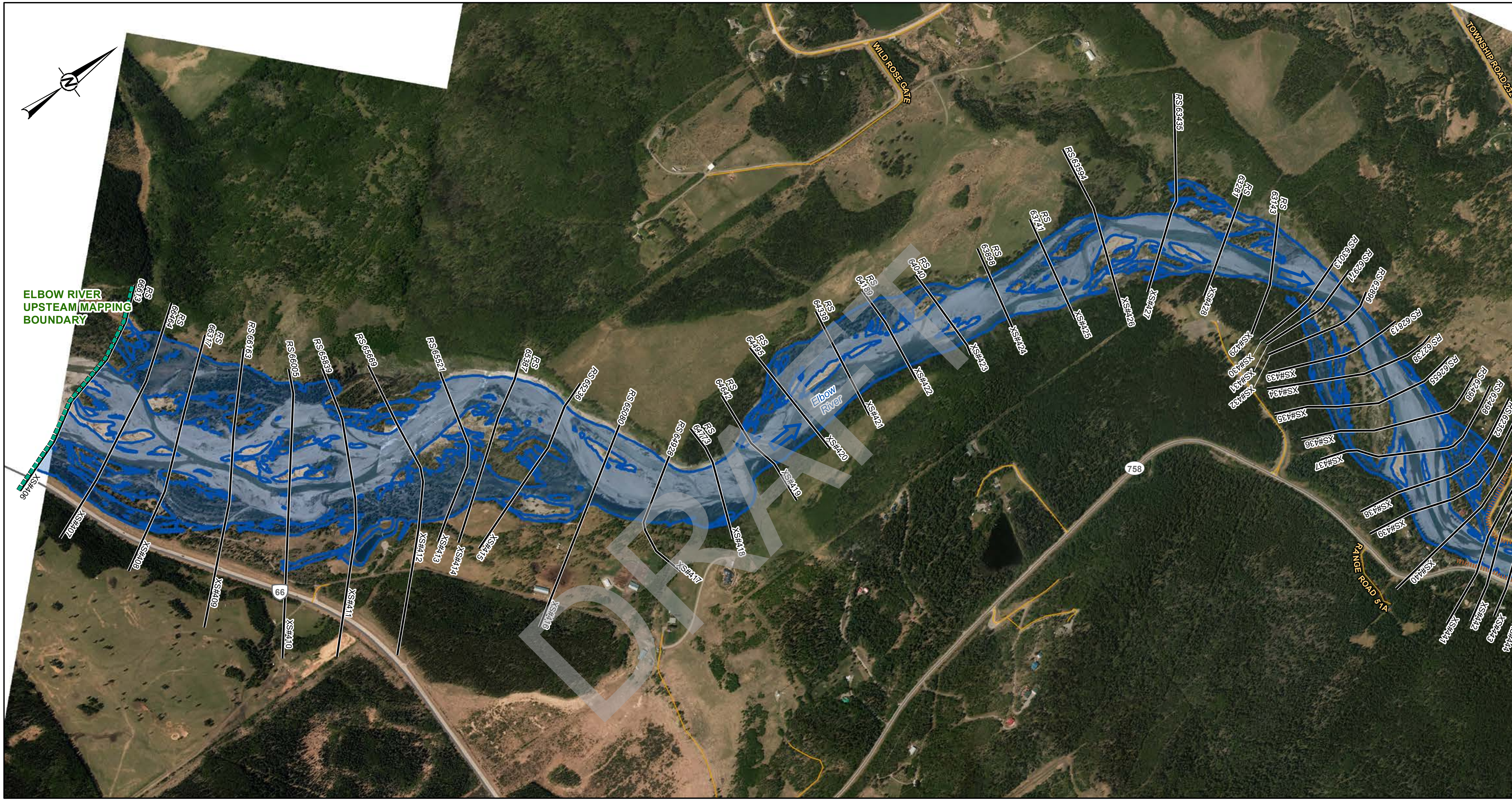
PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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

Classification: Public



LEGEND

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

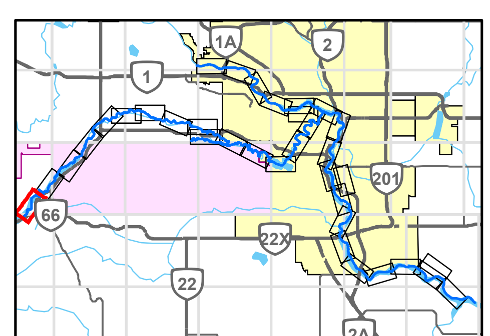
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

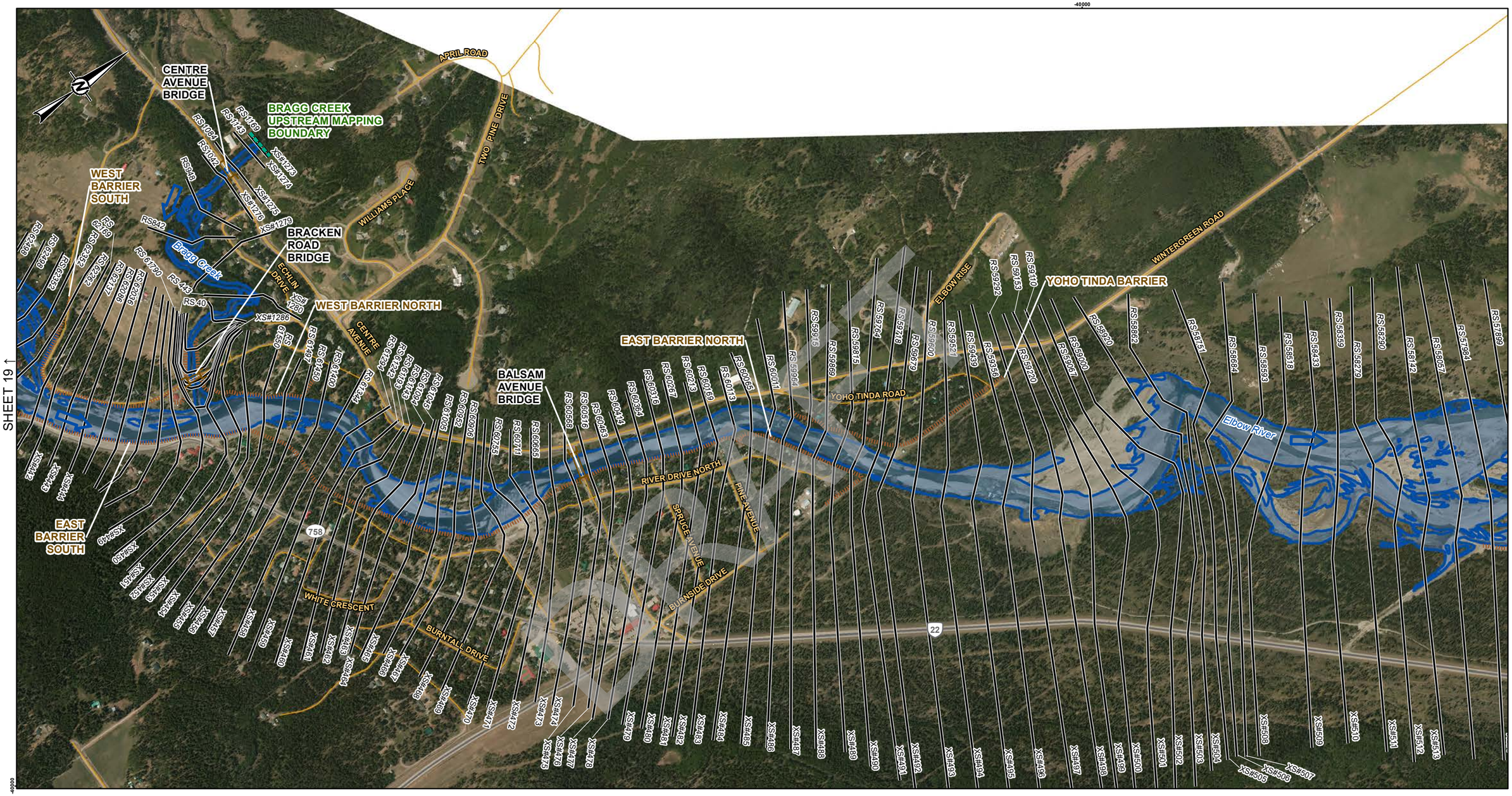
TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:47:23 PM

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

Classification: Public



LEGEND

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

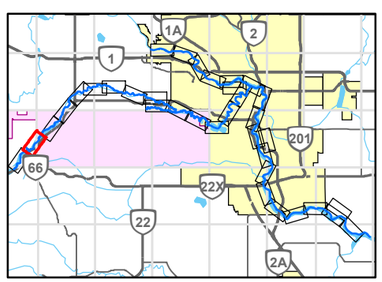
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S
BRAGG CREEK = 18 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 010-y-Inundation_ Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:51:45 PM

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

25mm 0

Classification: Public

SHEET 20 ↑

SHEET 22 ↓

5650000

Elbow River

REDWOOD MEADOWS GOLF & COUNTRY CLUB BERM

REDWOOD MEADOWS BERM

TSUU T'INA DRIVE

REDWOOD MEADOWS DRIVE

WOLF CRESCENT

WOLF DRIVE

22

66

22X

2A

1A

1

2

201

5650000

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_010-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:55:54 PM

Classification: Public

SHEET 21 ↑

SHEET 23 ↓

REDWOOD MEADOWS BERM

Elbow River

SLEIGH DRIVE

MANYHORSES DRIVE

RANGE ROAD 42

DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:59:37 PM

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

Classification: Public

LEGEND

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

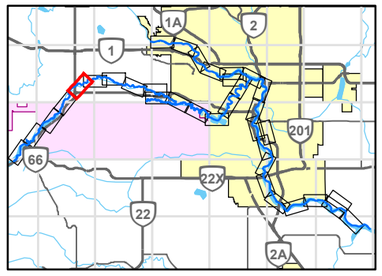
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

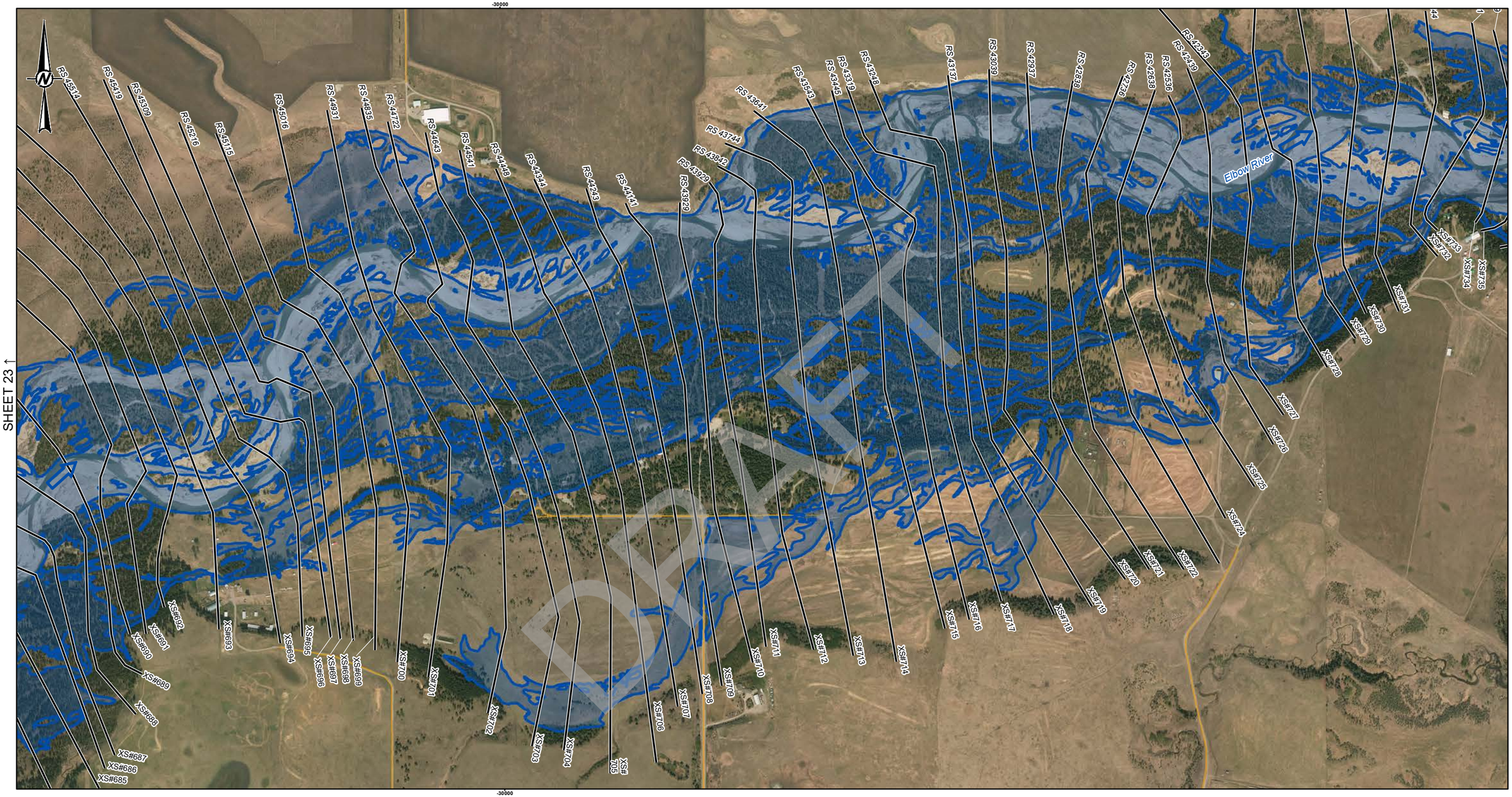
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:03:20 PM

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

Classification: Public



LEGEND

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

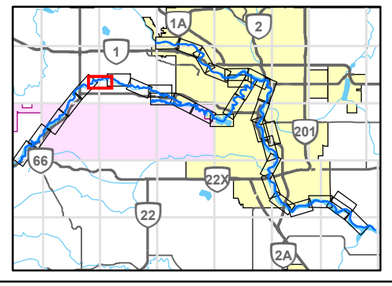
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

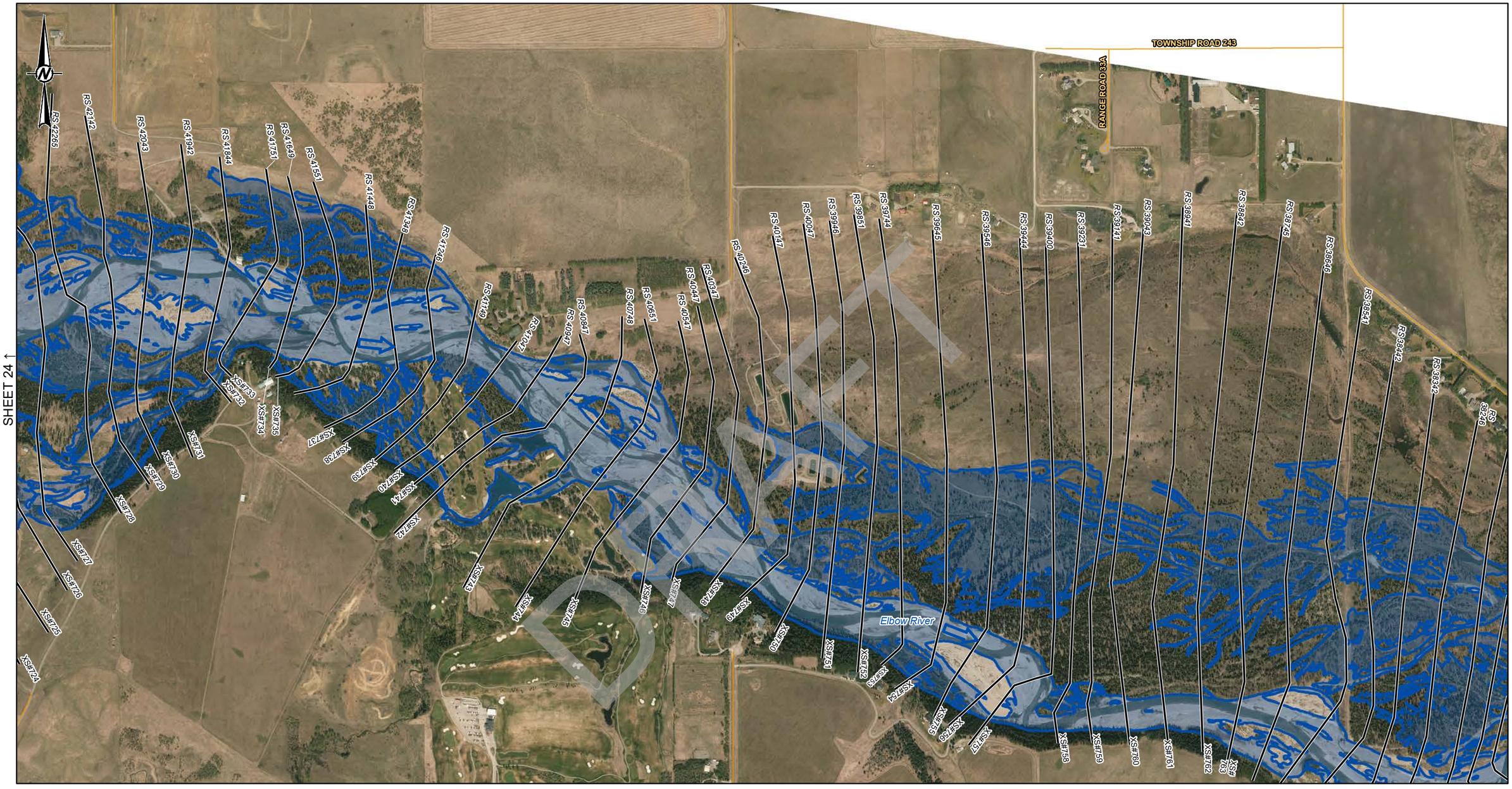
TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:06:18 PM

Classification: Public



LEGEND

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

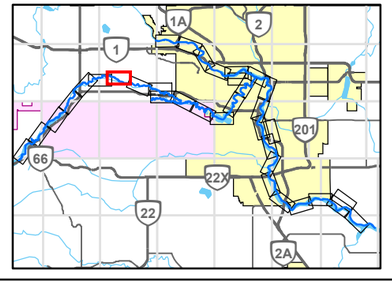
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:08:37 PM

Classification: Public

SHEET 25 ↑

SHEET 27 ↓

Springbank Creek

MOUNTAIN RIVER ESTATES

GRANDVIEW PLACE

Elbow River

ELBOW RIVER POINT

ELBOW RIVER GATE

ELBOW RIVER DRIVE

ELBOW RIVER ROAD

8

RS 38245 RS 38144 RS 38044 RS 37957 RS 37869 RS 37771 RS 37687 RS 37589 RS 37512 RS 37389 RS 37289 RS 37189 RS 37092 RS 36989 RS 36908 RS 36781 RS 36698 RS 36603 RS 36502 RS 36404 RS 36298 RS 36212 RS 36116 RS 36012 RS 35912 RS 35816 RS 35710 RS 35616 RS 35513 RS 35414 RS 35327 RS 35210 RS 35103 RS 35001 RS 34916 RS 34816 RS 34725 RS 34615 RS 34516 RS 34412 RS 34312 RS 34236 RS 34158

XS#767 XS#768 XS#769 XS#770 XS#771 XS#772 XS#773 XS#774 XS#775 XS#776 XS#777 XS#778 XS#779 XS#780 XS#781 XS#782 XS#783 XS#784 XS#785 XS#786 XS#787 XS#788 XS#789 XS#790 XS#791 XS#792 XS#793 XS#794 XS#795 XS#796 XS#797 XS#798 XS#799 XS#800 XS#801 XS#802 XS#803 XS#804 XS#805 XS#806 XS#807 XS#808 XS#809 XS#810 XS#811

DRAFT

LEGEND

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

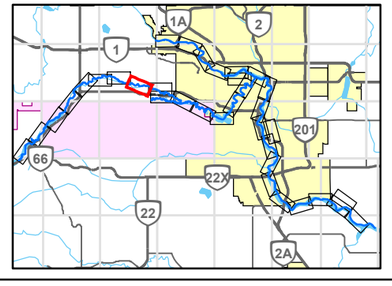
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 250 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

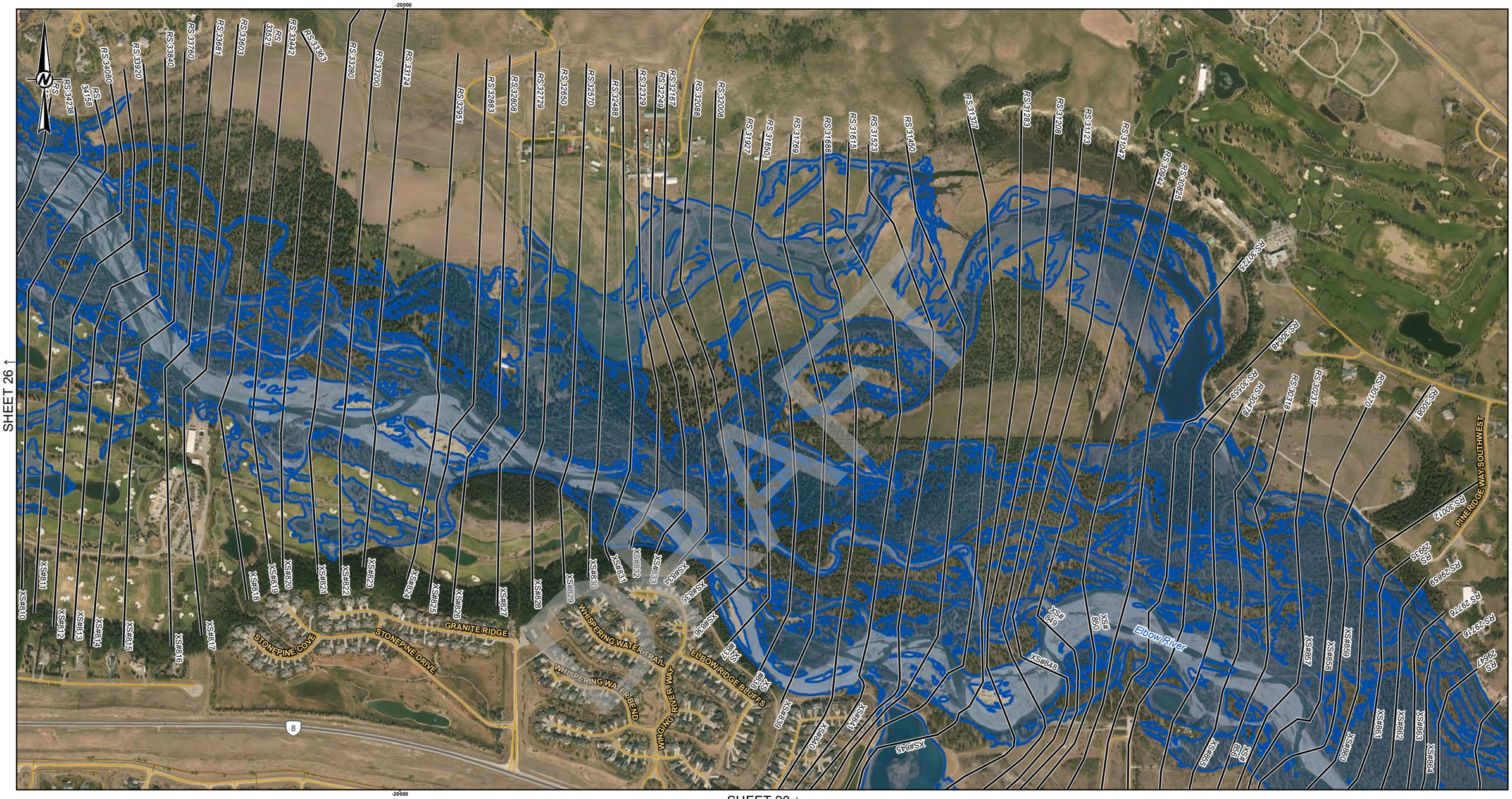
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:11:50 PM

Classification: Public



LEGEND

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

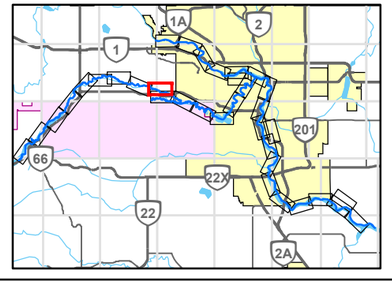
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S
LOTT CREEK = 11.6 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

25mm

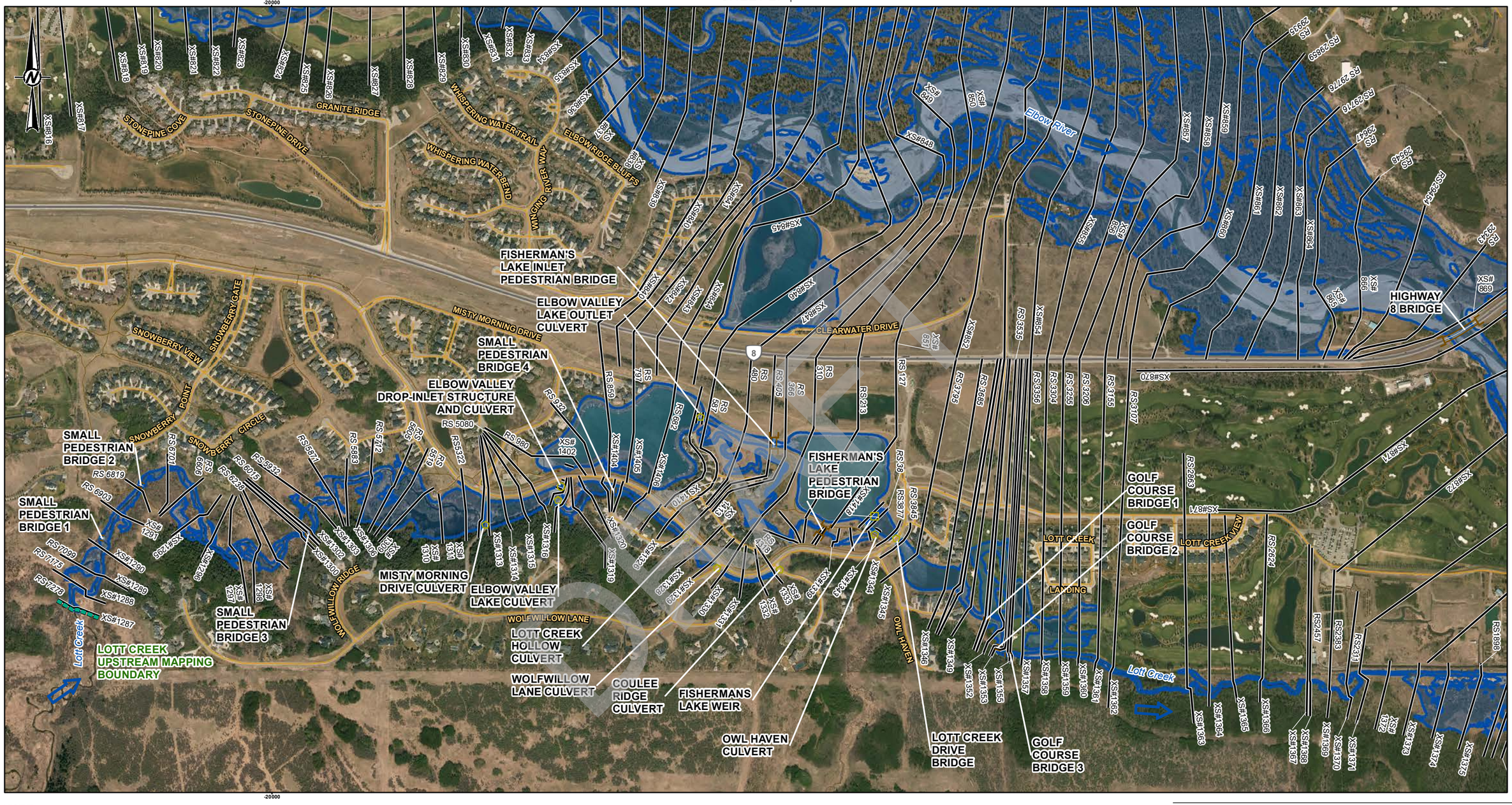
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:15:12 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

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

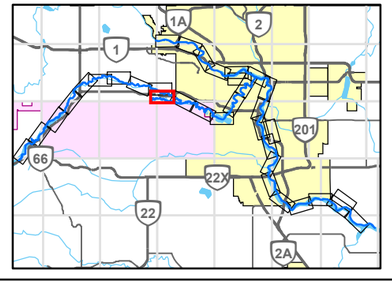
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S
LOTT CREEK = 11.6 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:18:38 PM

Classification: Public

LEGEND

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

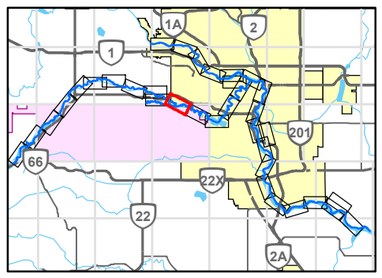
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S
LOTT CREEK = 11.6 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

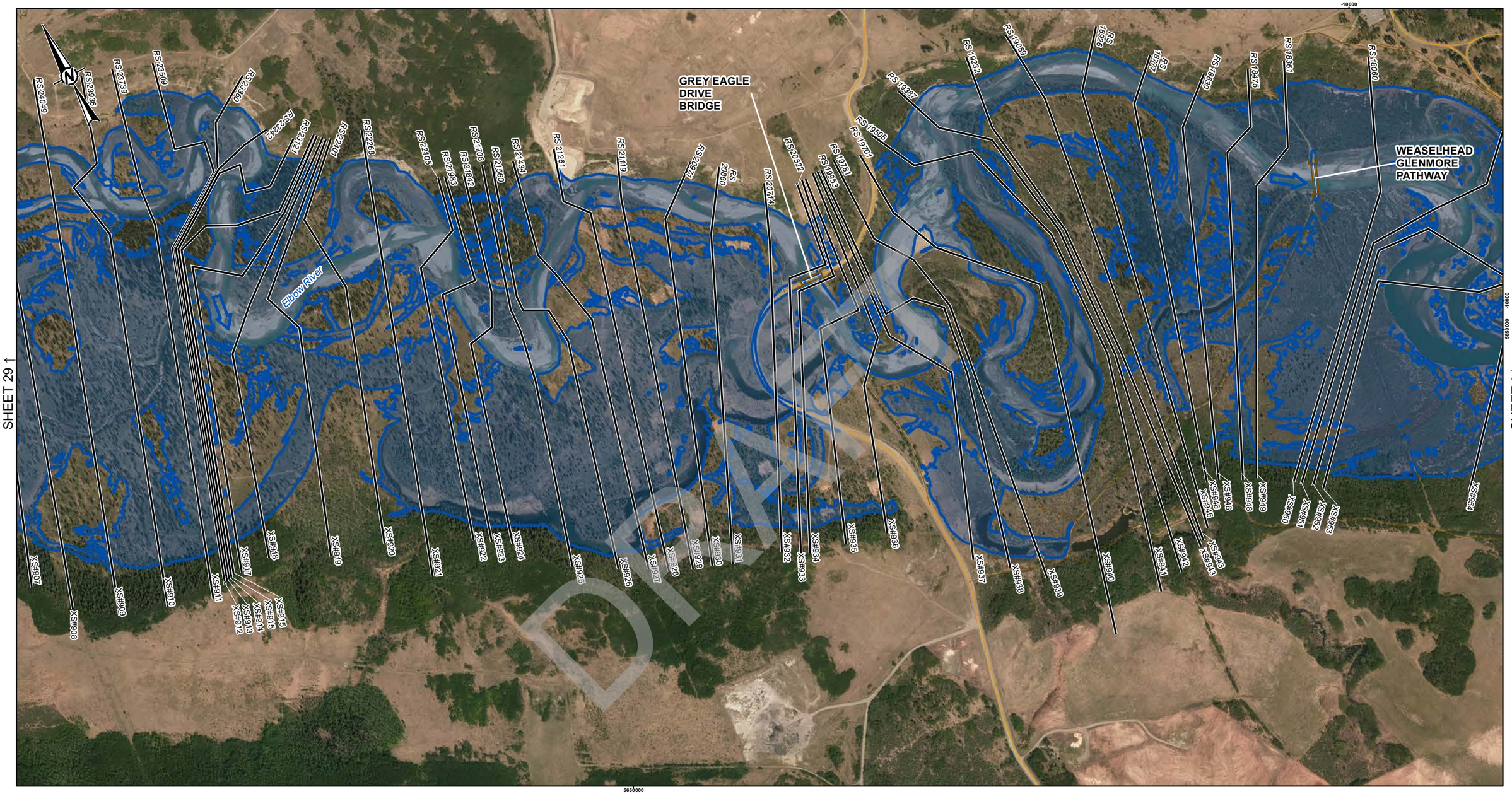
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:23:37 PM

Classification: Public



LEGEND

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

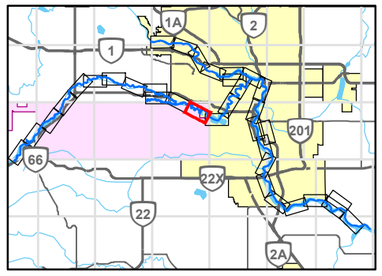
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

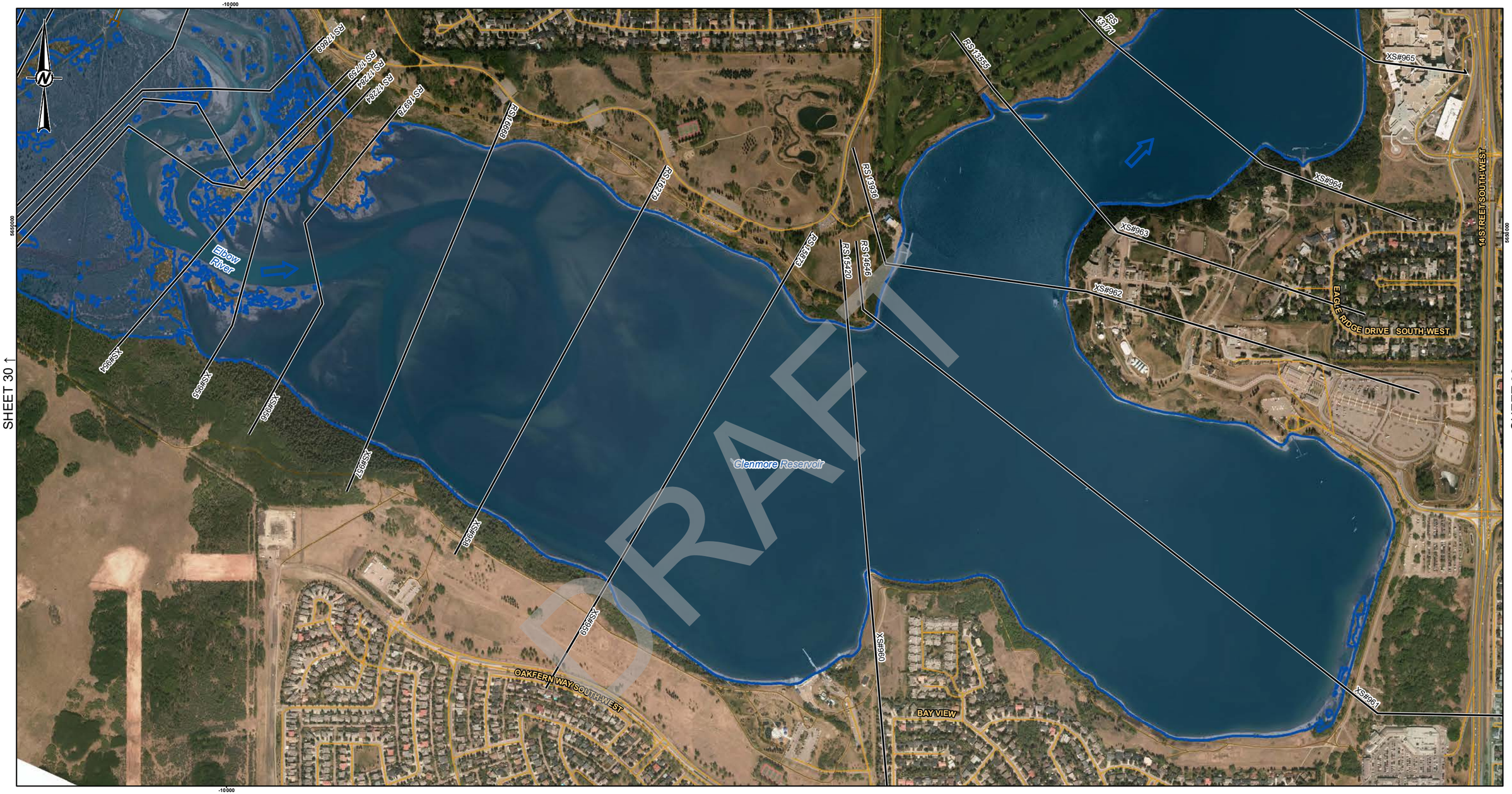
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 010-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:26:32 PM

Classification: Public



DRAFT

LEGEND

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

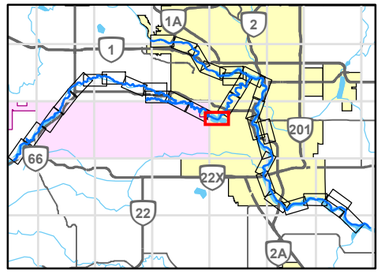
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 253 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:29:46 PM

Classification: Public

LEGEND

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

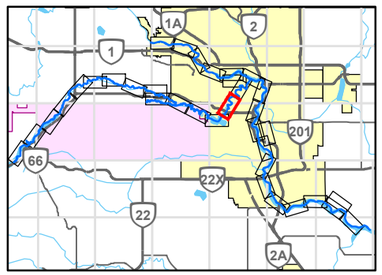
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 253 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:33:39 PM

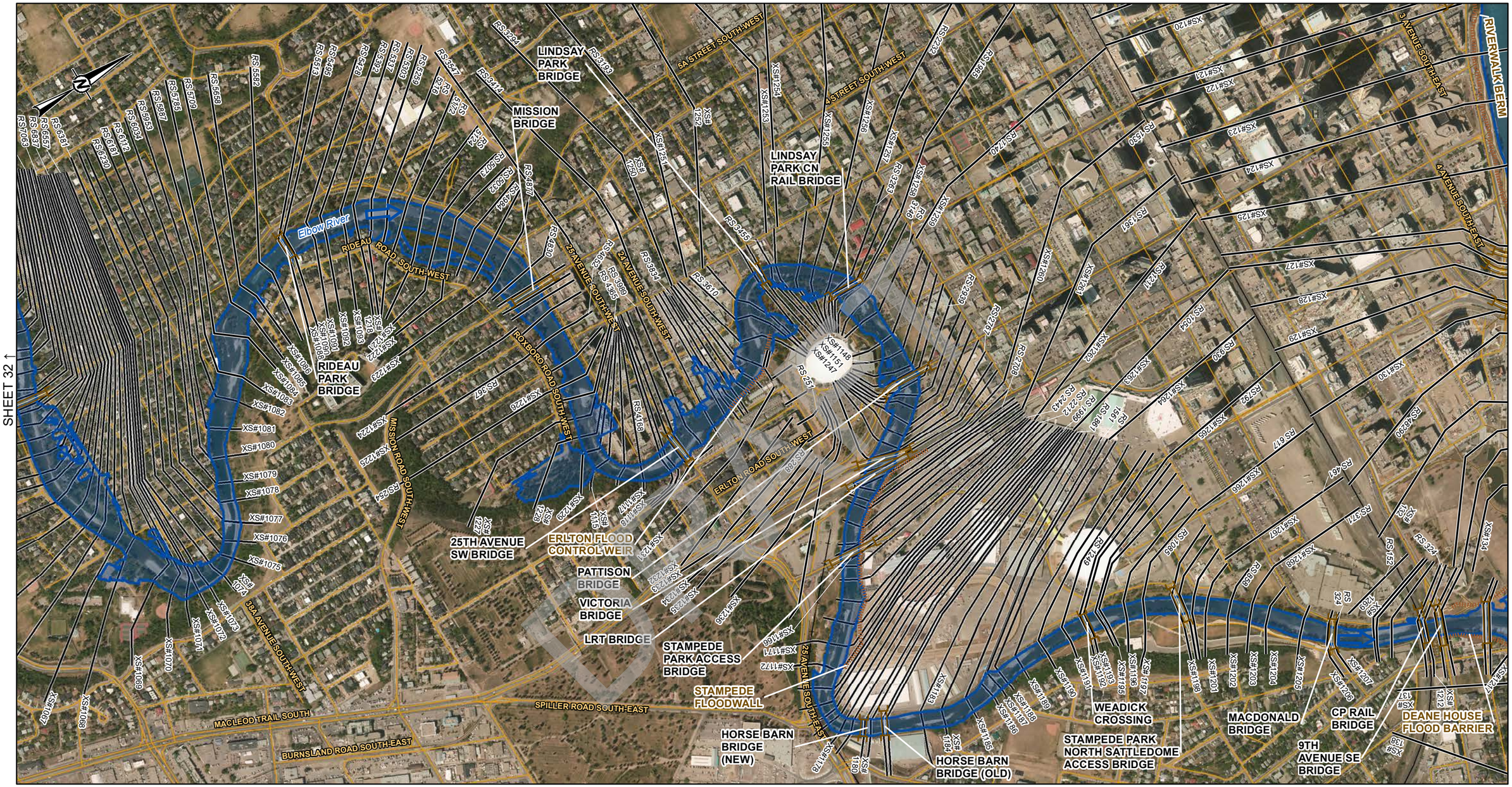
DRAFT

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

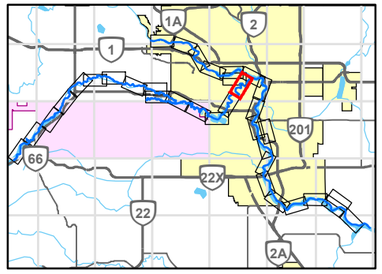
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 253 M^3/S
BOW RIVER BELOW ELBOW RIVER = 996 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

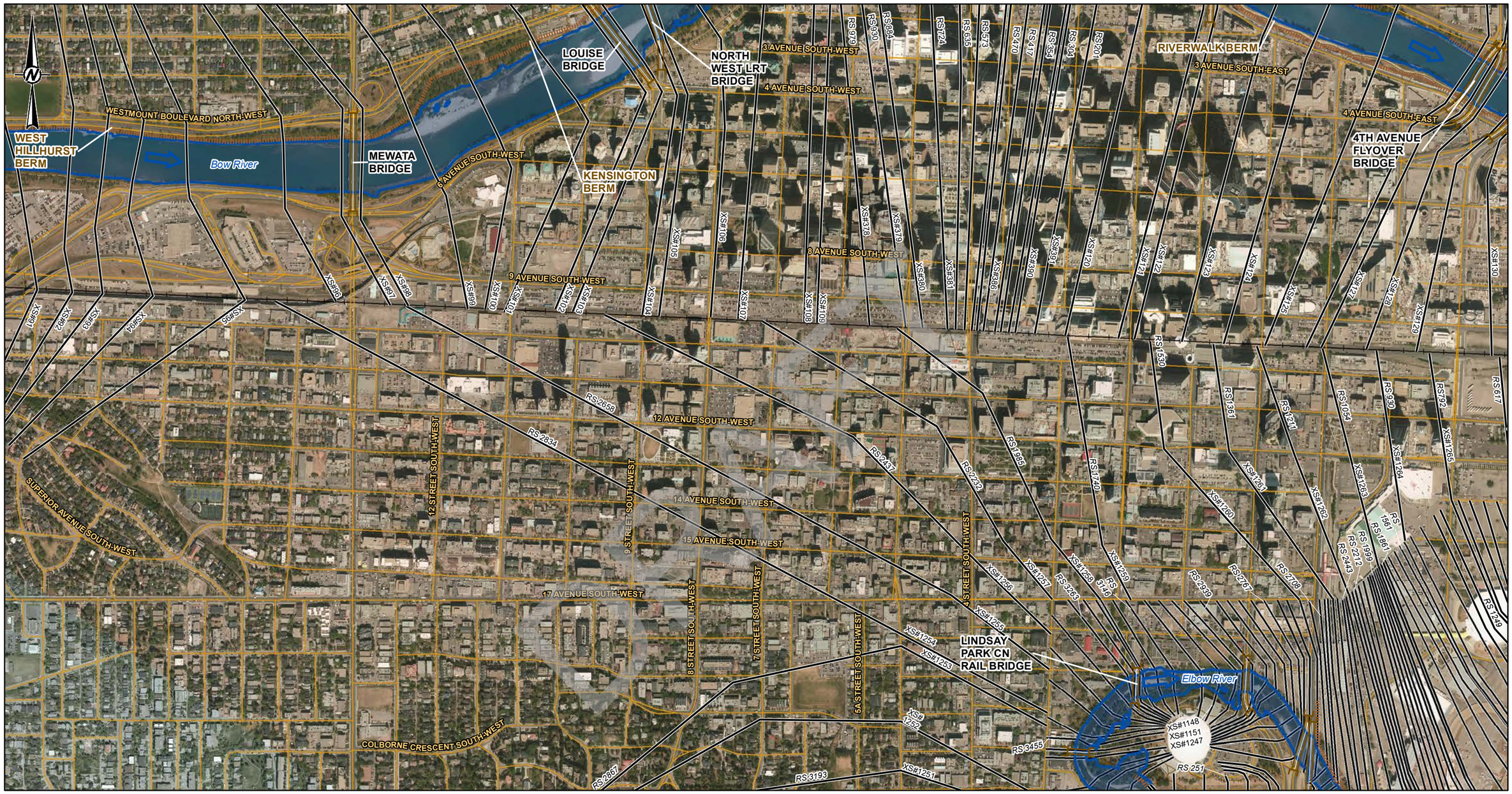
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:35:41 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

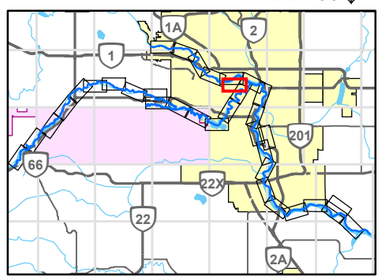
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

10-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 845 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 253 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
10-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:38:51 PM
Classification: Public

20-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

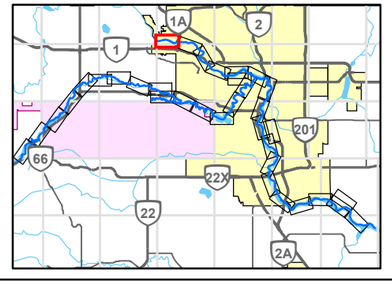
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:13:20 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

LEGEND

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

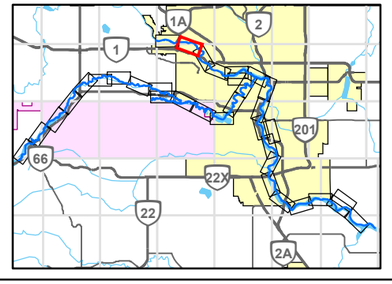
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

25mm

0

Classification: Public

C:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_003y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:15:00 PM

SHEET 2 ↑

SHEET 4 ↓

5660000

-10000

VARSITY ROAD NORTHWEST

MONTALBAN DRIVE NORTH-WEST

23 AVENUE NORTH-WEST

MACKAY ROAD NORTH-WEST

22 AVENUE NORTH-WEST

21 AVENUE NORTH-WEST

VETERANS WAY NORTH-WEST

HARRY BOOTHMAN BRIDGE

68 STREET NORTH-WEST

HEXTALL BRIDGE

SHOULDICE BRIDGE

MONTGOMERY BERM

13 AVENUE NORTH-WEST

Bow River

TRANS-CANADA HIGHWAY BRIDGE

67 STREET NORTH-WEST

29 AVENUE NORTH-WEST

SARCEE TRAIL SOUTH-WEST

PATINA DRIVE SOUTH-WEST

RS 60468 RS 61423 RS 60698 RS 60470 RS 60362 RS 60250 RS 61402 RS 59651 RS 59489 RS 59392 RS 59231 RS 59074 RS 58789 RS 58702 RS 58630 RS 58335 RS 58097 RS 57831 RS 57610 RS 57490 RS 57219 RS 57049 RS 57081 RS 56912 RS 56731 RS 56529 RS 56353

XS#41 XS#42 XS#43 XS#49 XS#52 XS#SX XS#54 XS#55 XS#56 XS#57 XS#58 XS#59 XS#60 XS#61 XS#62 XS#63 XS#64 XS#65 XS#66 XS#67 XS#68 XS#69 XS#70 XS#71 XS#72

5660000

LEGEND

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

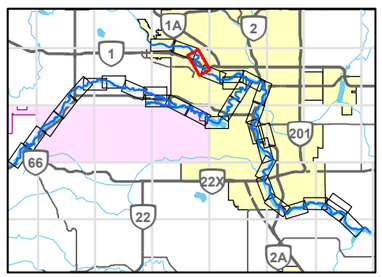
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:16:51 PM

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

-10000

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WESTMOUNT ROAD NORTH-WEST

WEST HILLHURST BERM

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

RS 57219 RS 57087 RS 57049 RS 56917 RS 56727 RS 56563 RS 56529 RS 55902 RS 55676 RS 55434 RS 55322 RS 54971 RS 54672 RS 54403 RS 54141 RS 53940 RS 53650 RS 53573 RS 53476 RS 53263 RS 53127 RS 53299 RS 52941 RS 52701 RS 52614 RS 52491 RS 52228 RS 52076 RS 52022

XS#70 XS#71 XS#72 XS#73 XS#74 XS#75 XS#76 XS#77 XS#78 XS#79 XS#80 XS#81 XS#82 XS#83 XS#84 XS#85 XS#86 XS#87 XS#88 XS#89 XS#90

-10000

DRAFT

LEGEND

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

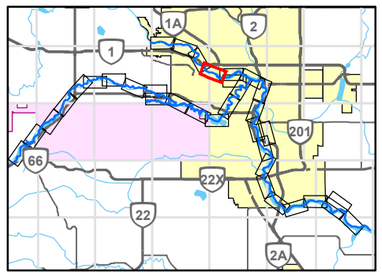
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

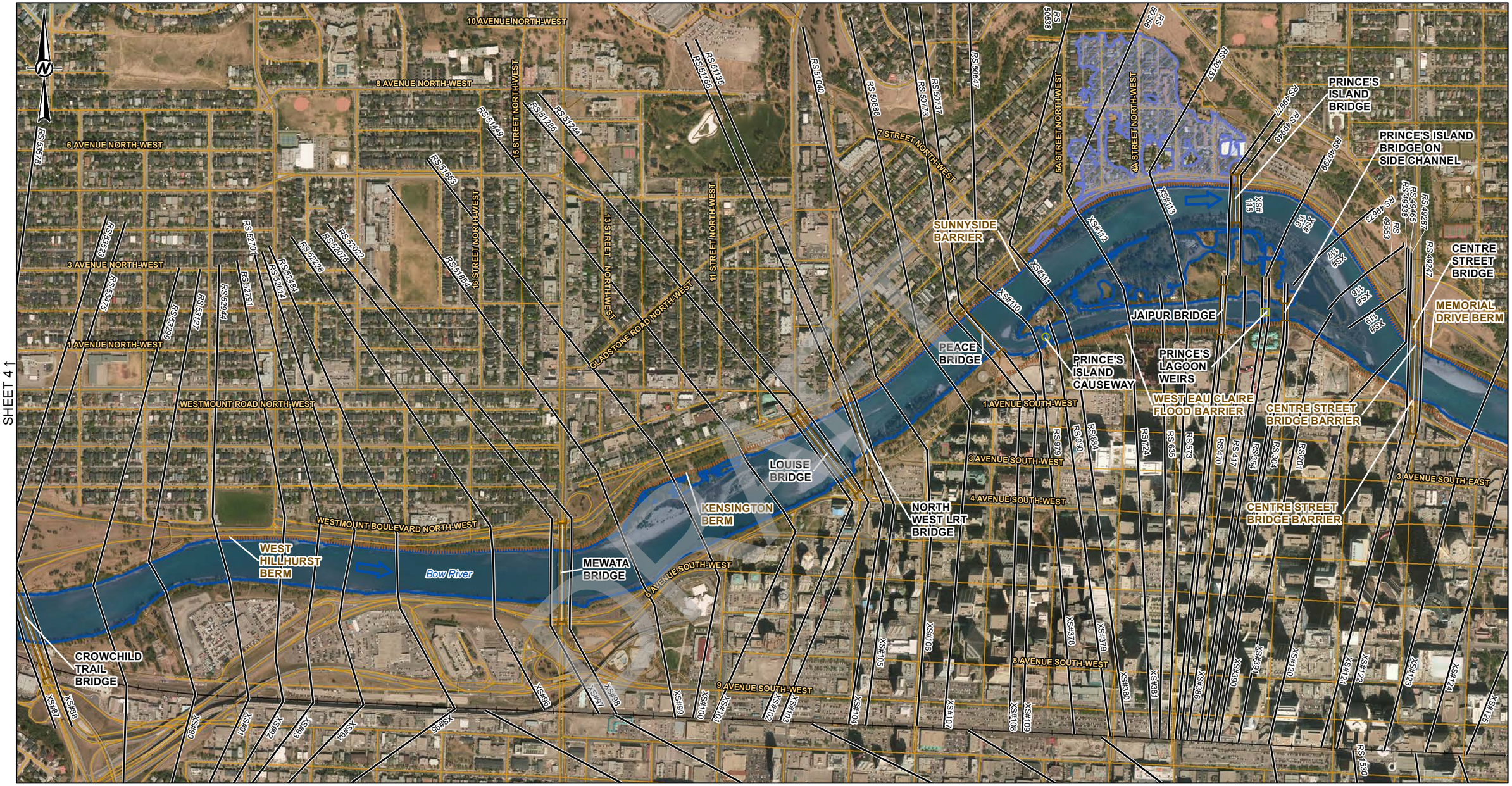
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

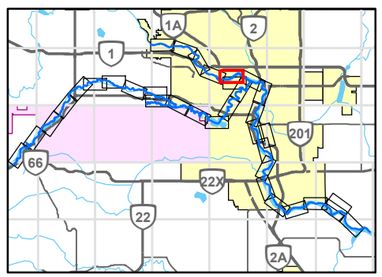
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:20:02 PM

Classification: Public



SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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

25mm

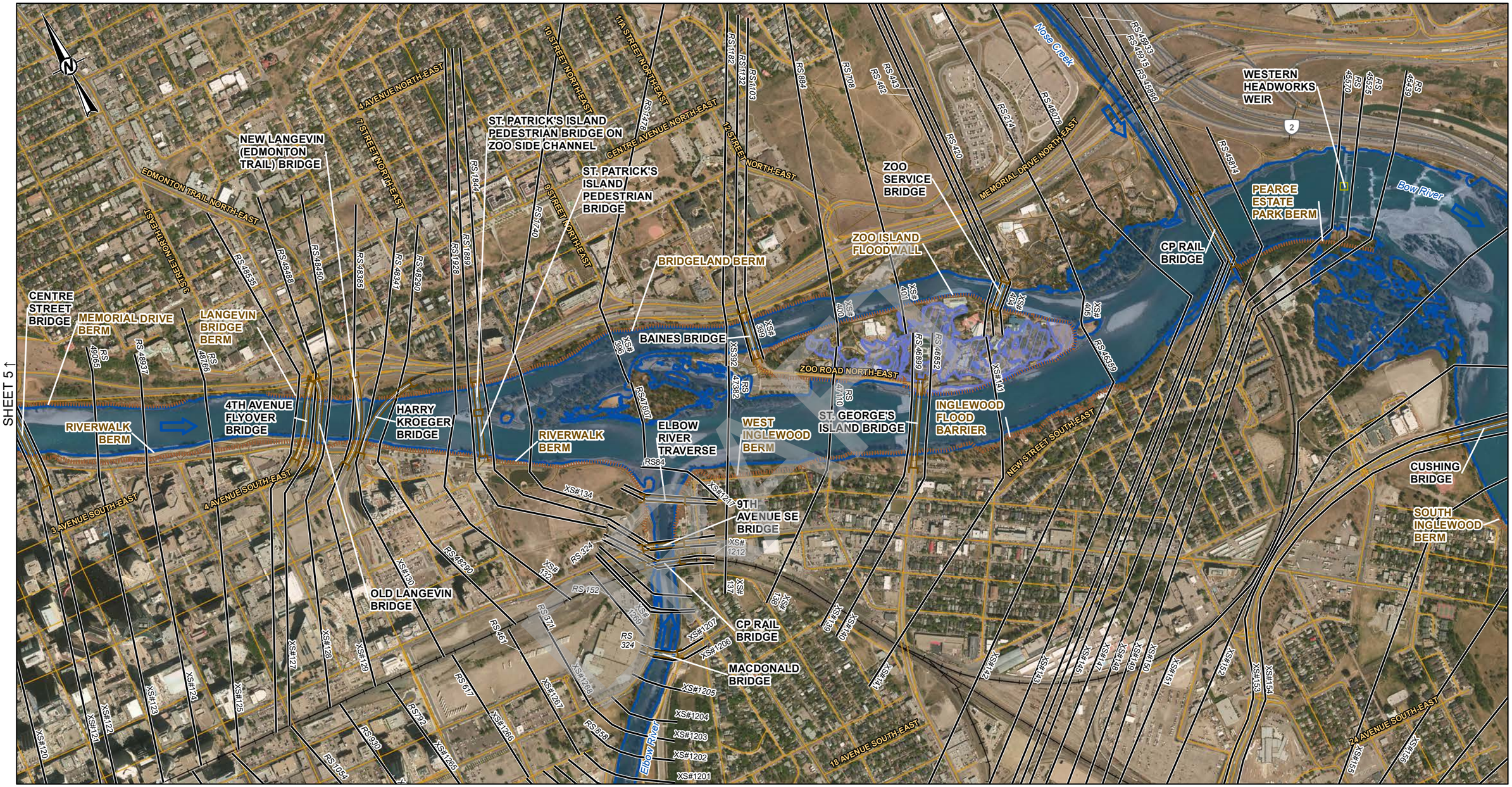
0

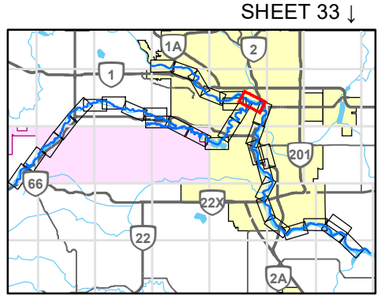
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:22:22 PM

Classification: Public

SHEET 5 ↑

SHEET 7 ↓





LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 379 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1310 M^3/S
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

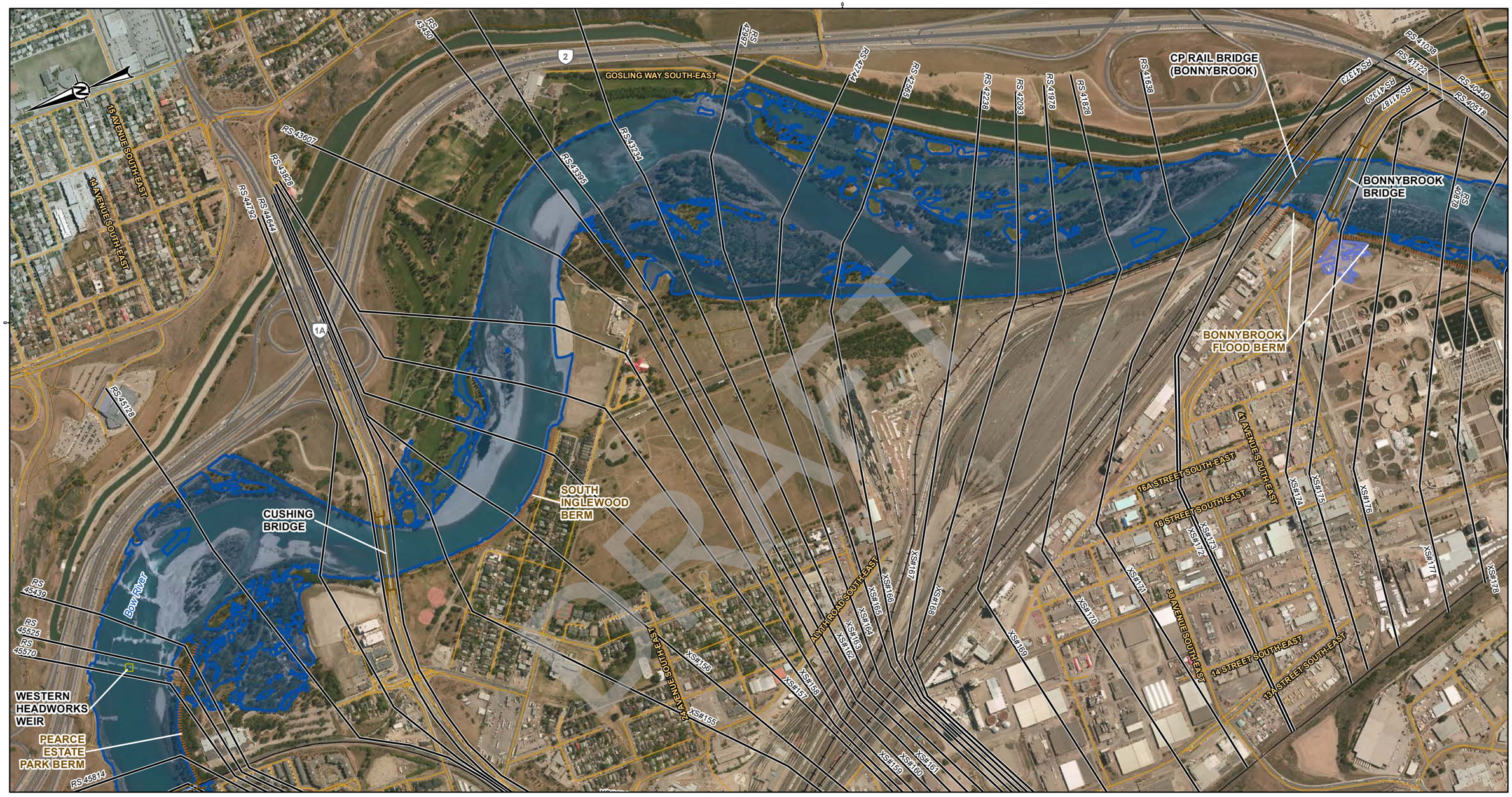
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f020-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:24:13 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

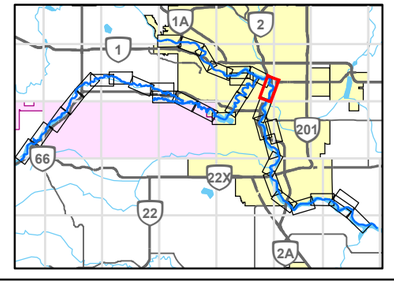
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

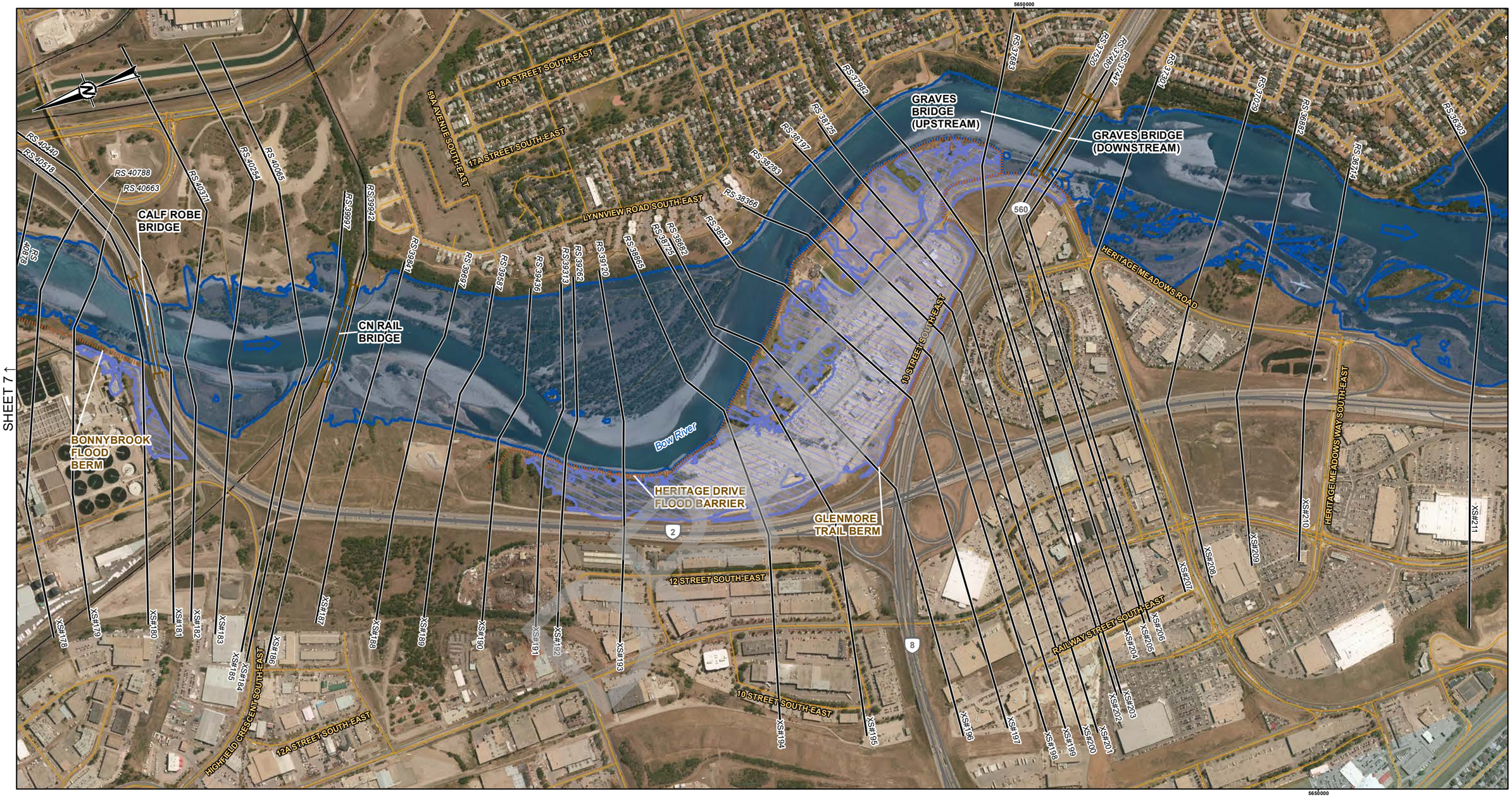
25mm

0

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:25:57 PM

Classification: Public



LEGEND

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

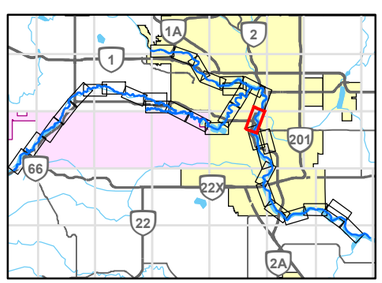
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ (20)y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:27:42 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RS 37689

RS 37620

RS 37480

RS 37364

RS 37029

RS 36892

RS 36714

RS 36303

RS 36008

RS 35723

RS 35602

RS 35419

RS 35275

RS 35139

RS 34869

RS 34780

RS 34758

RS 34557

RIVERBEND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

ELVEWEW CLOSE SOUTH-EAST

18 STREET SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTH INNER RING ROAD

ERIC HARVIE BRIDGE

QUARRY PARK BERM

QUARRY WAY SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

IVOR STRONG BRIDGE

Bow River

XS#210

XS#211

XS#212

XS#213

XS#214

XS#215

XS#216

XS#217

XS#218

XS#219

XS#220

XS#221

XS#222

XS#223

XS#224

XS#225

XS#226

XS#227

XS#228

XS#229

XS#230

XS#231

XS#232

2

LEGEND

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

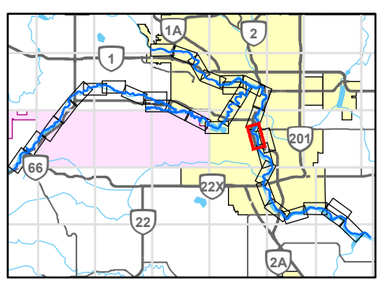
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:28 PM

Classification: Public

LEGEND

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

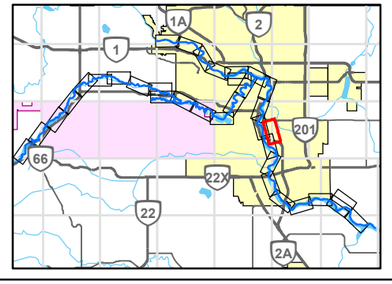
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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

25mm

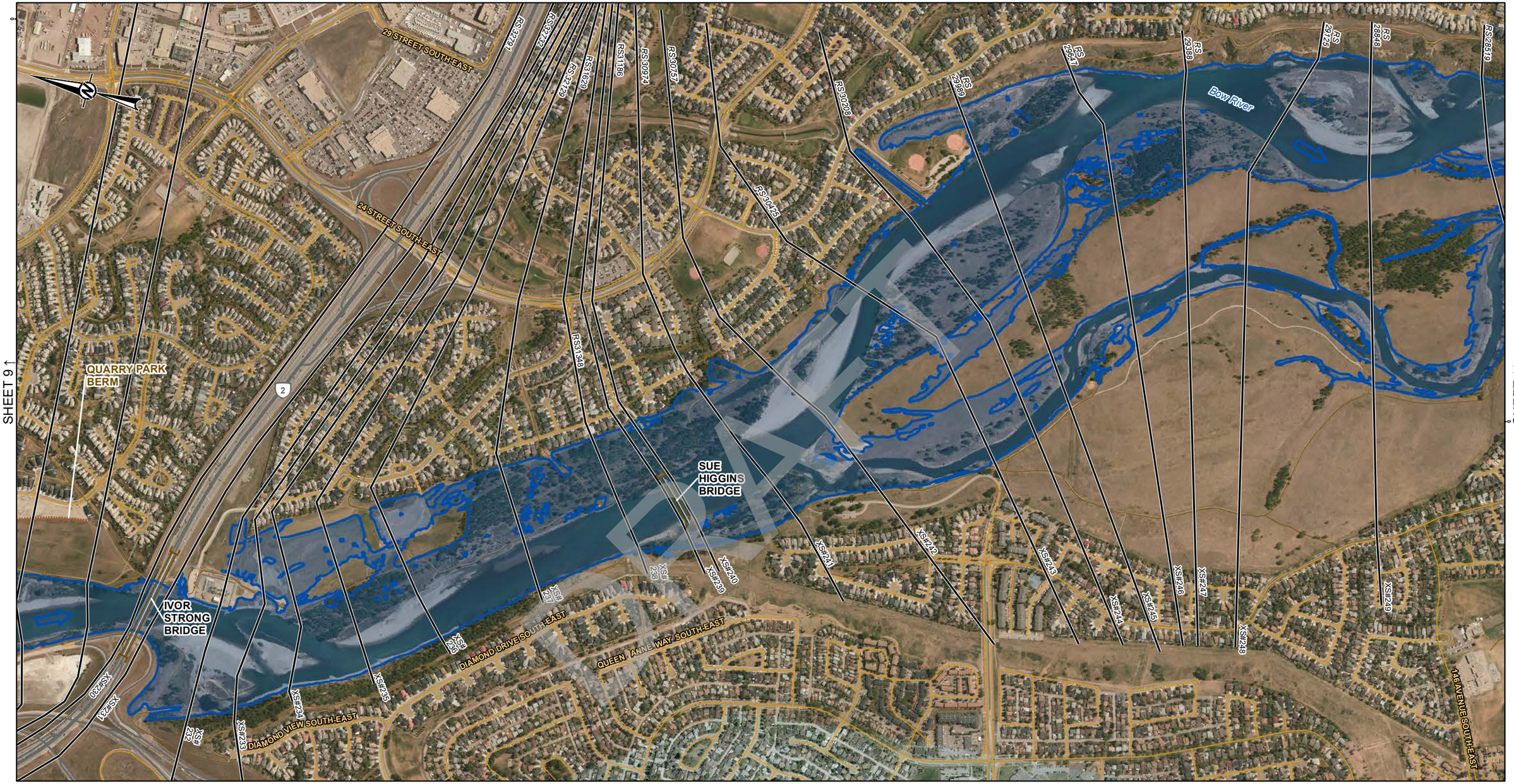
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:31:03 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓



LEGEND

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

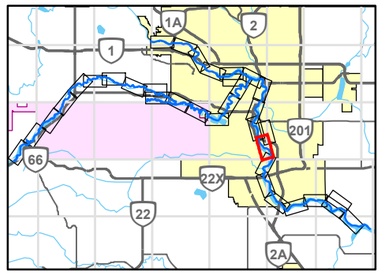
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

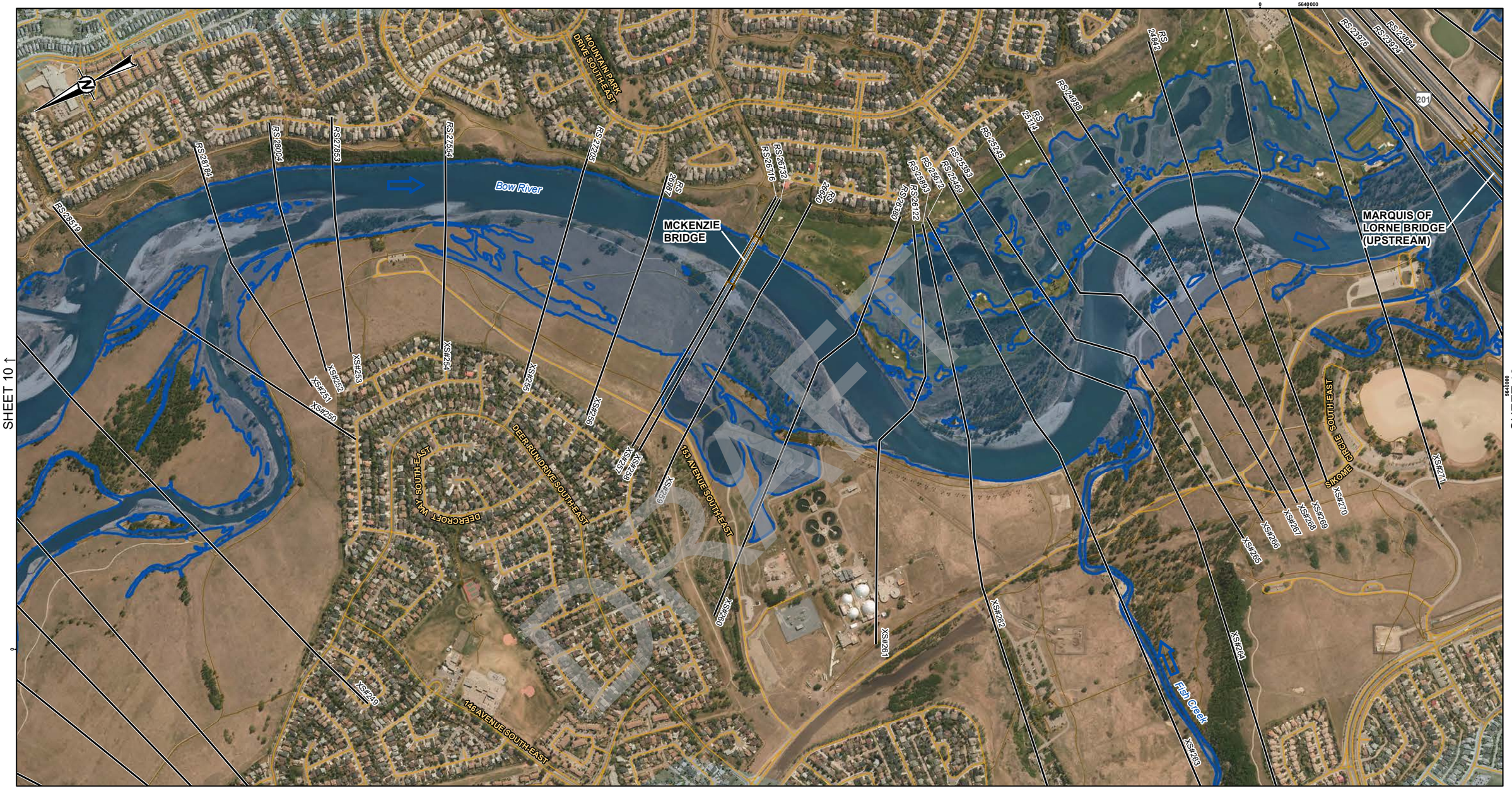
TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:32:48 PM

Classification: Public



SHEET 10 ↑

SHEET 12 ↓

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1330 M^3/S
BOW RIVER BELOW FISH CREEK = 1380 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

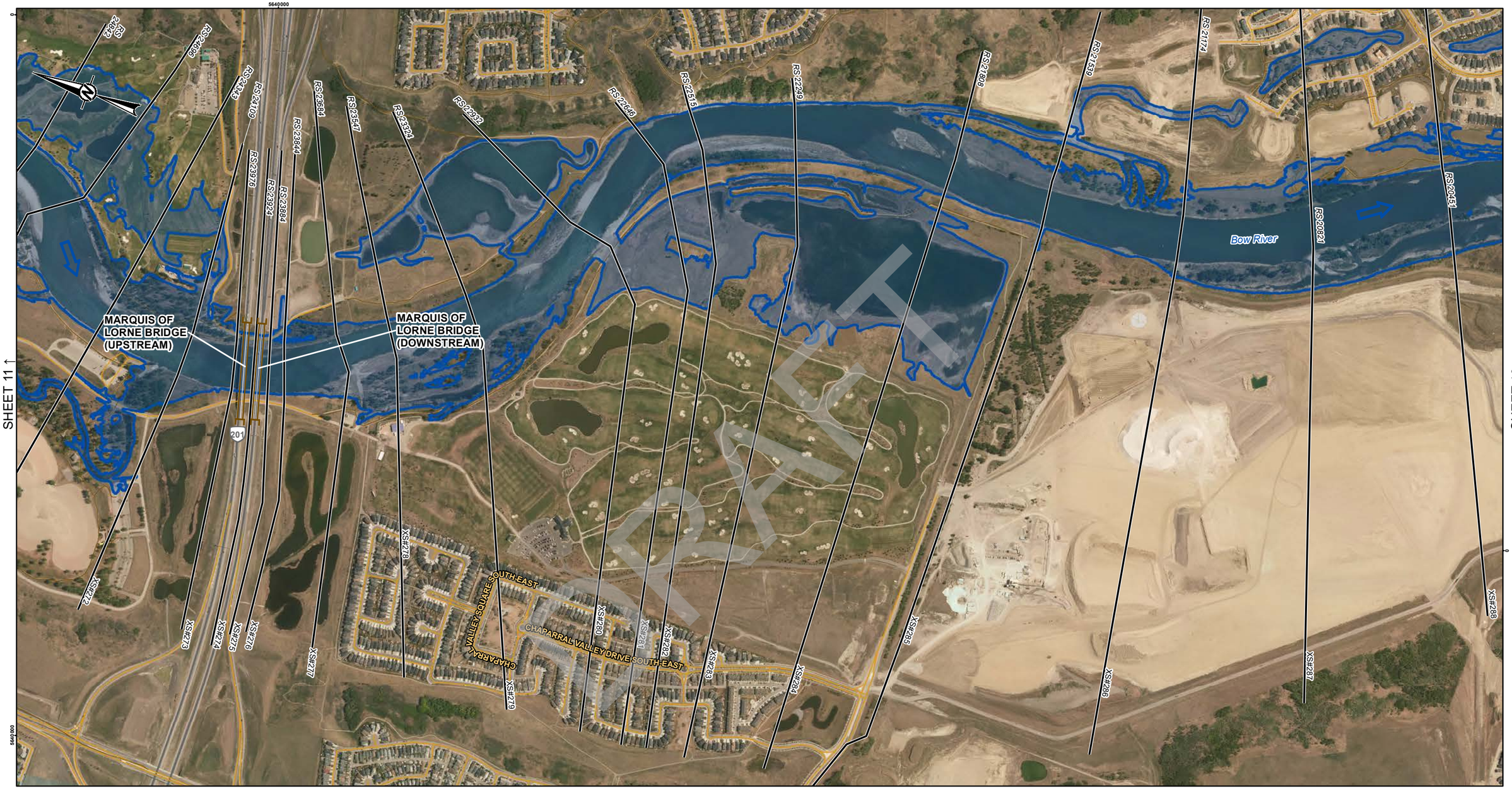
YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:34:41 PM

Classification: Public



DRAFT

LEGEND

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

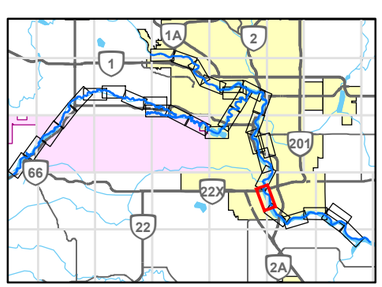
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1380 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:36:31 PM

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

DRAFT

LEGEND

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

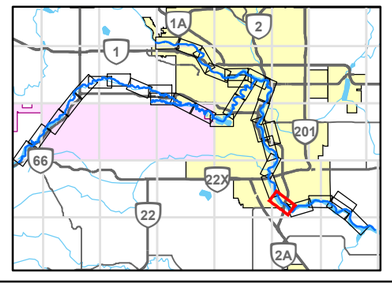
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1380 M^3/S
BOW RIVER BELOW PINE CREEK = 1400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:38:22 PM

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

Classification: Public

LEGEND

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

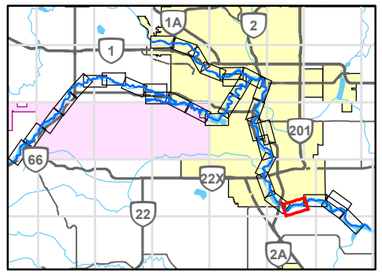
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

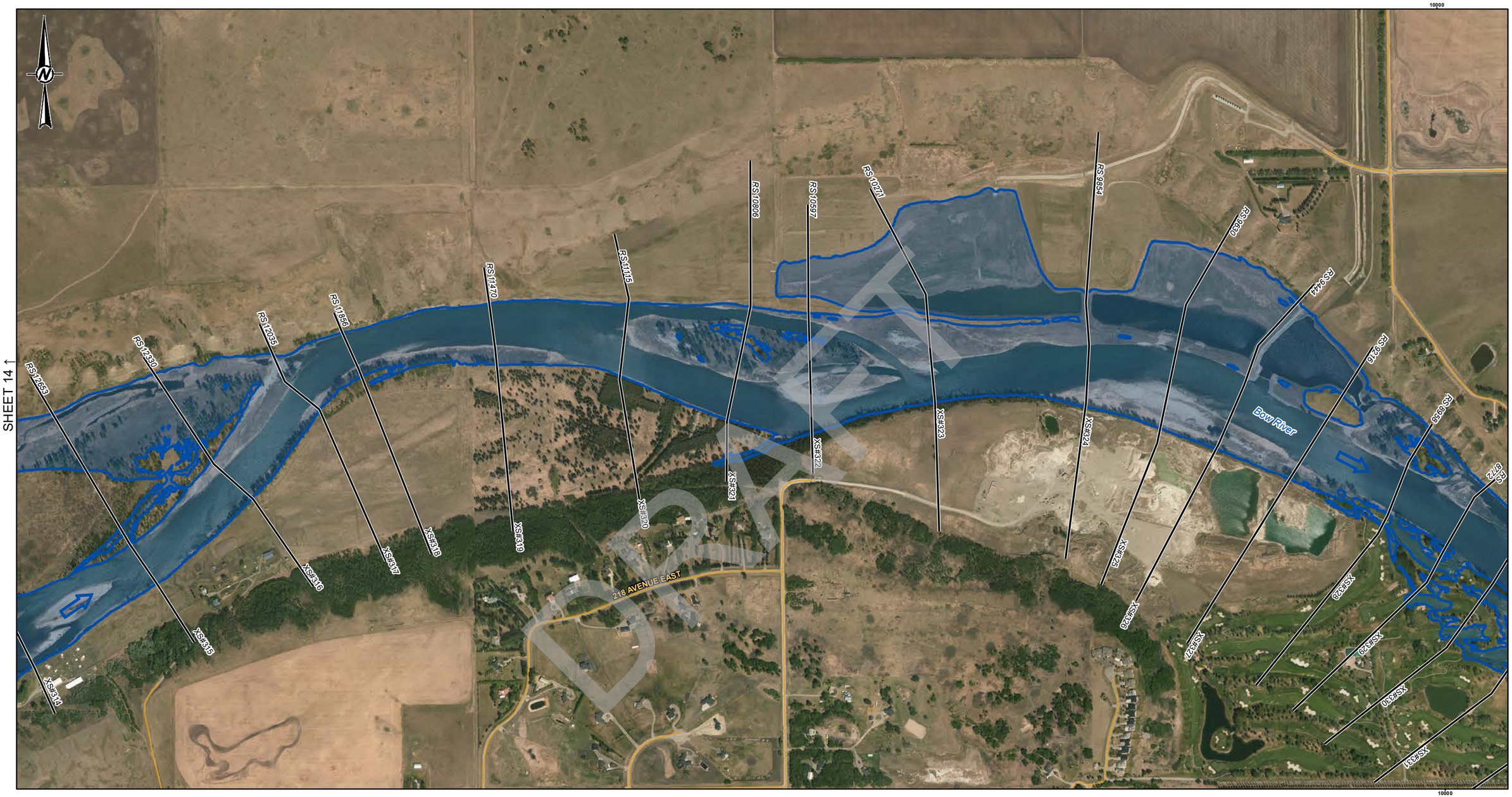
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_t20y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:39:58 PM

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



DRAFT

LEGEND

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

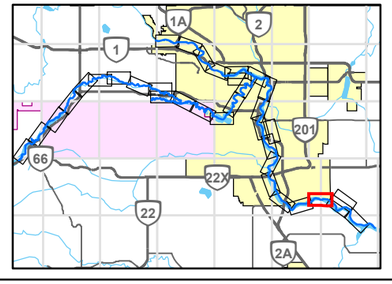
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1400 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 1420 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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

25mm

0

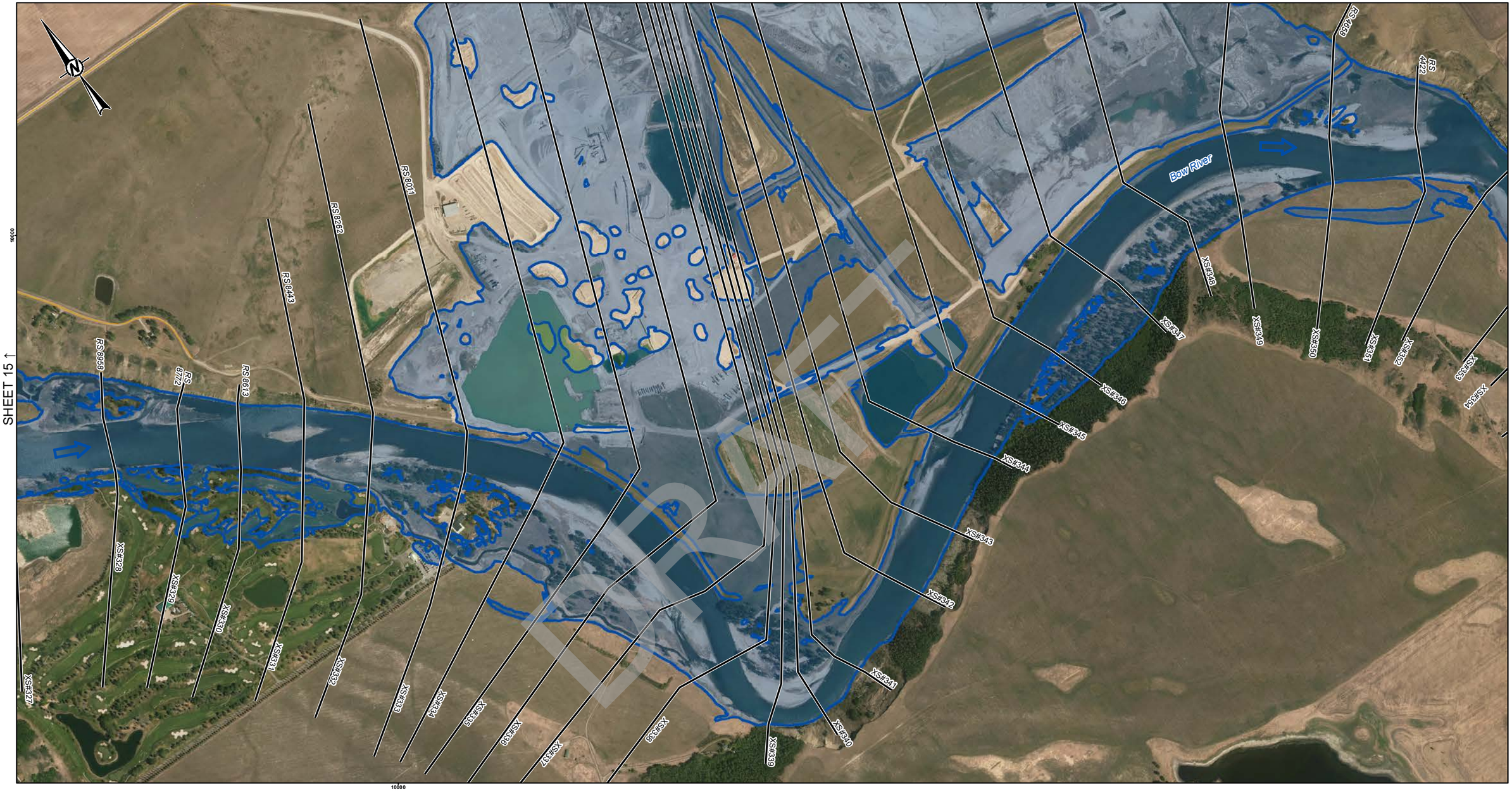
Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:41:14 PM

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓



DRAFT

LEGEND

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

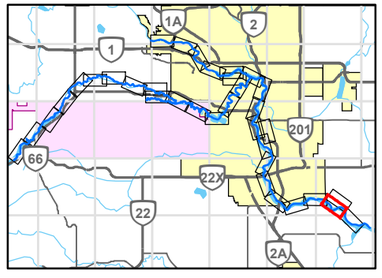
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1420 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

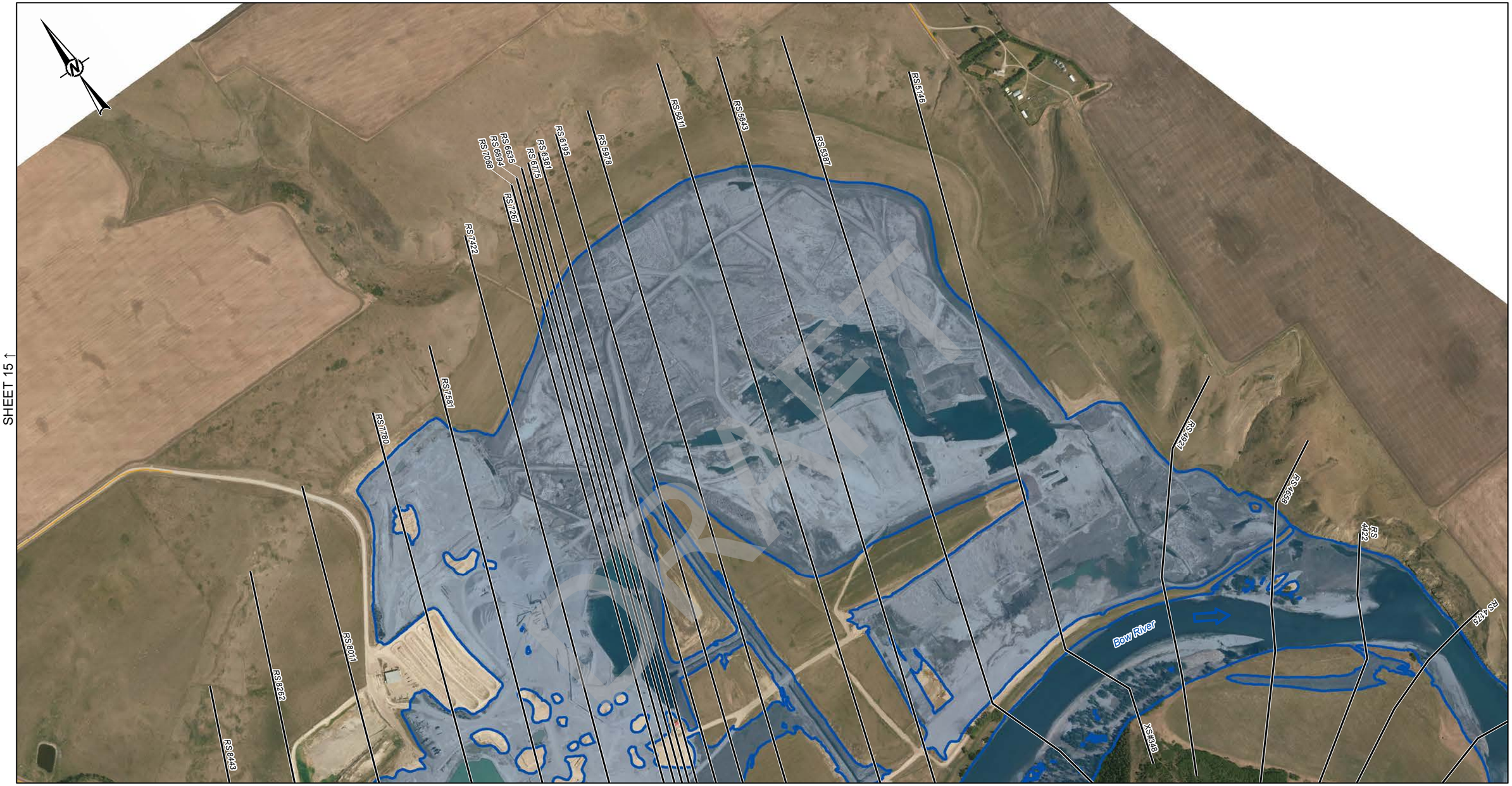
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:42:53 PM

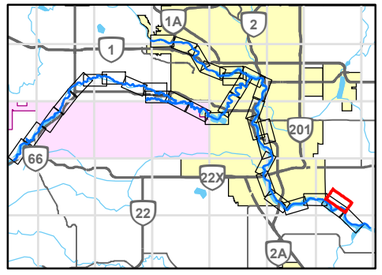
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1420 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:44:25 PM

Classification: Public

LEGEND

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

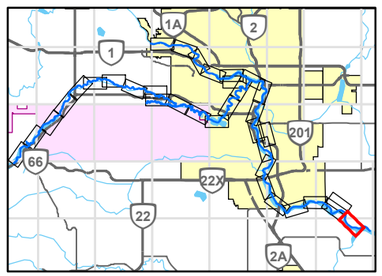
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1420 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

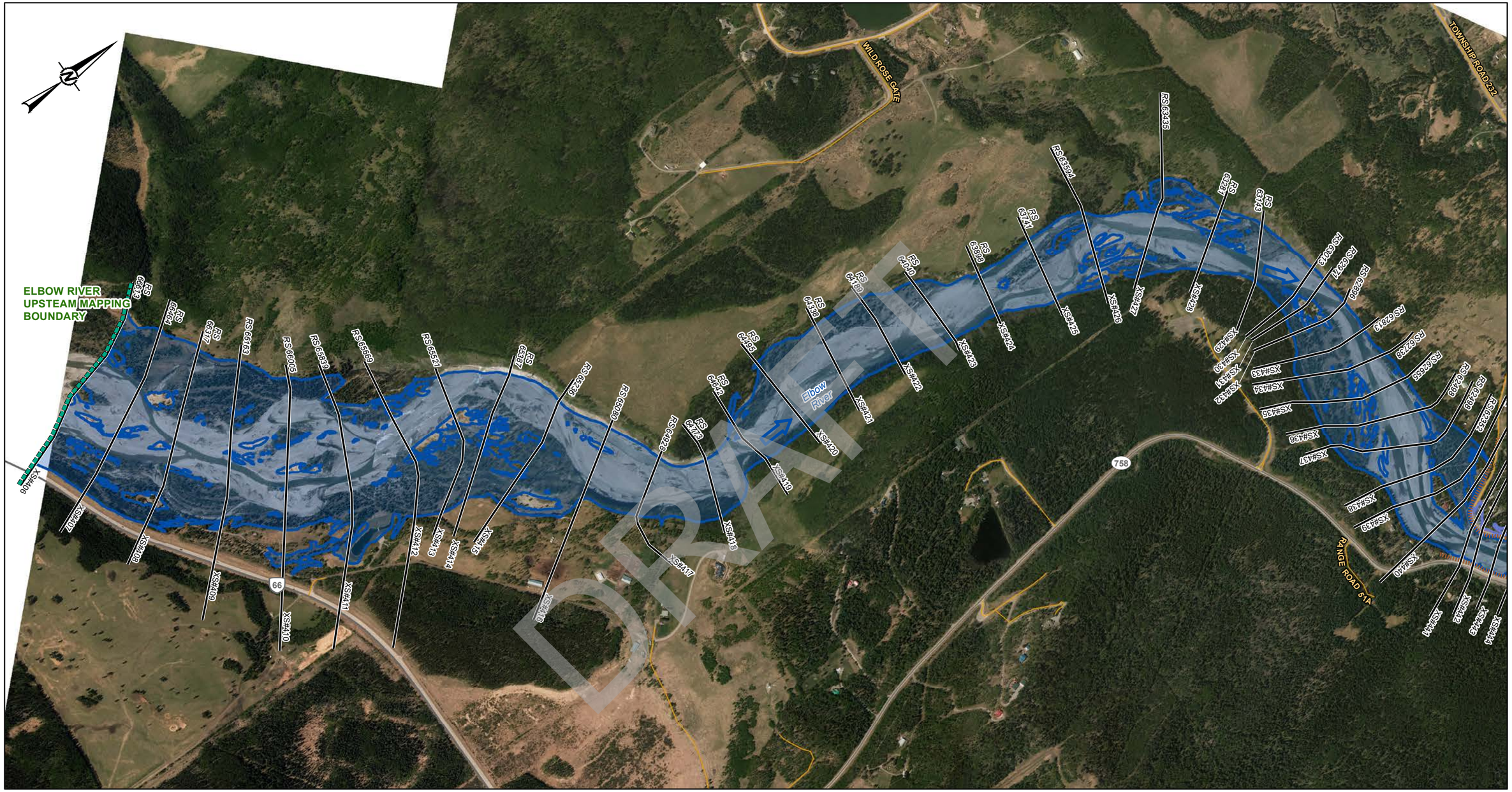
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02Oy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:45:56 PM

Classification: Public



LEGEND

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

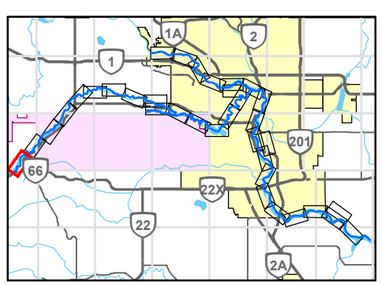
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

SHEET 20 ↓

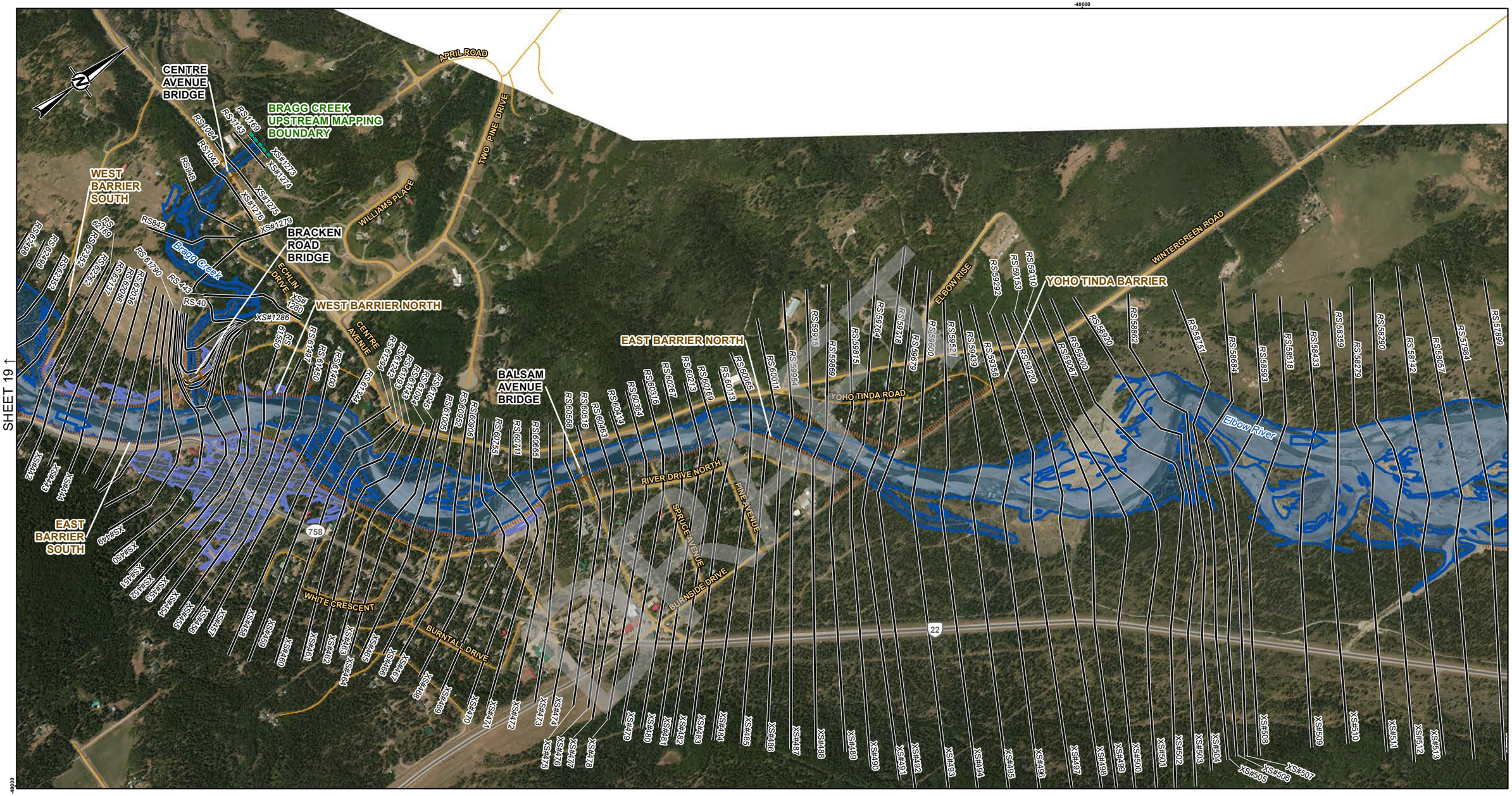
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:49:41 PM

Classification: Public



LEGEND

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

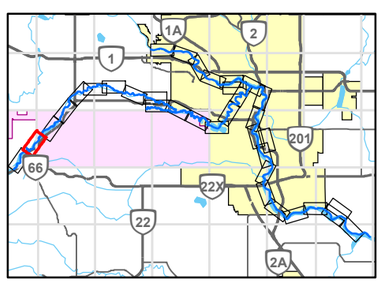
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S
BRAGG CREEK = 25.2 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

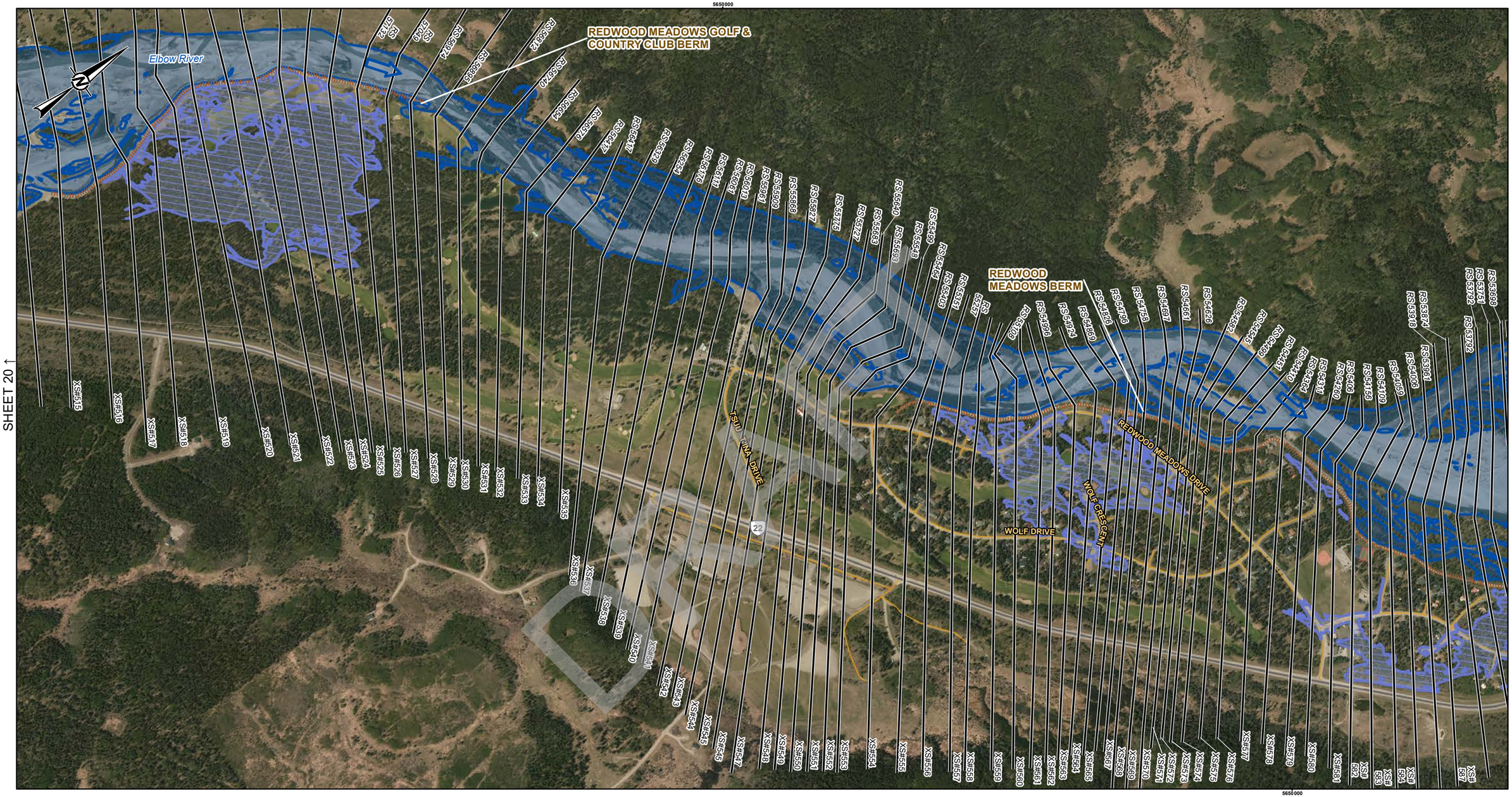
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_(20)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:53:33 PM

Classification: Public



LEGEND

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

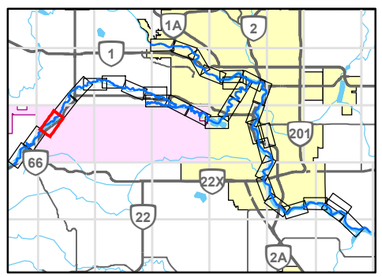
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_(20)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:56:42 PM

Classification: Public

SHEET 21 ↑

SHEET 23 ↓

REDWOOD MEADOWS BERM

SLEIGH DRIVE

MANYHORSES DRIVE

RANGE ROAD 42

Elbow River

RS 55557 RS 55397 RS 55444 RS 55369 RS 55761 RS 55782 RS 55392 RS 53420 RS 53162 RS 53227 RS 53272 RS 53343 RS 53057 RS 53003 RS 52971 RS 52909 RS 52838 RS 52724 RS 52692 RS 52659 RS 52640 RS 52570 RS 52516 RS 52446 RS 52396 RS 52269 RS 52220 RS 52124 RS 52055 RS 51947 RS 51877 RS 51759 RS 51679 RS 51579 RS 51459 RS 51341 RS 51232 RS 51173 RS 51067 RS 50932 RS 50854 RS 50739 RS 50623 RS 50539 RS 50202 RS 50099 RS 50000 RS 49908 RS 49818 RS 49713

XS#637 XS#589 XS#590 XS#591 XS#592 XS#593 XS#594 XS#595 XS#596 XS#597 XS#598 XS#599 XS#600 XS#600M XS#602 XS#603 XS#604 XS#605 XS#606 XS#607 XS#608 XS#609 XS#610 XS#611 XS#612 XS#614M XS#615 XS#616 XS#617 XS#618 XS#619 XS#620 XS#621 XS#622 XS#623 XS#624 XS#625 XS#626 XS#627 XS#628 XS#629 XS#630 XS#631 XS#632 XS#633 XS#634 XS#635 XS#636 XS#637 XS#638 XS#639 XS#640 XS#641 XS#642 XS#643 XS#644 XS#645 XS#646 XS#647 XS#648 XS#649 XS#650 XS#651 XS#652 XS#653

DRAFT

LEGEND

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

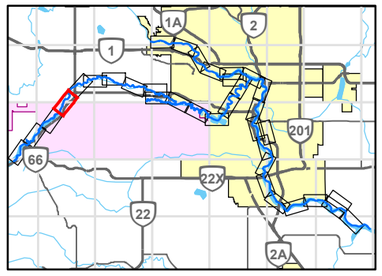
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

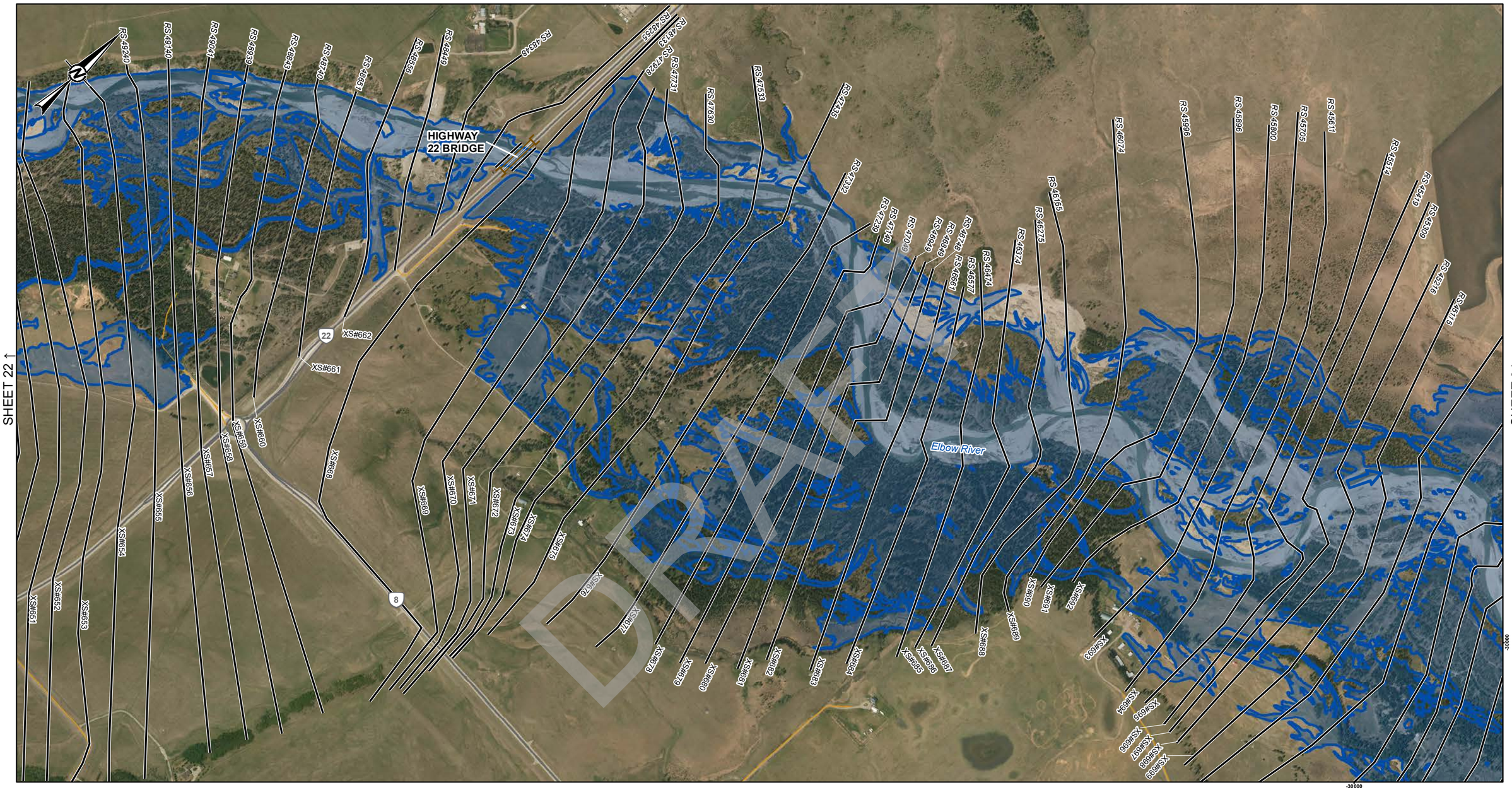
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:59:37 PM

Classification: Public



DRAFT

LEGEND

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

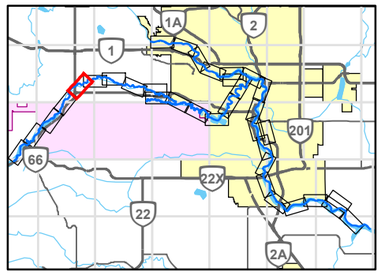
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

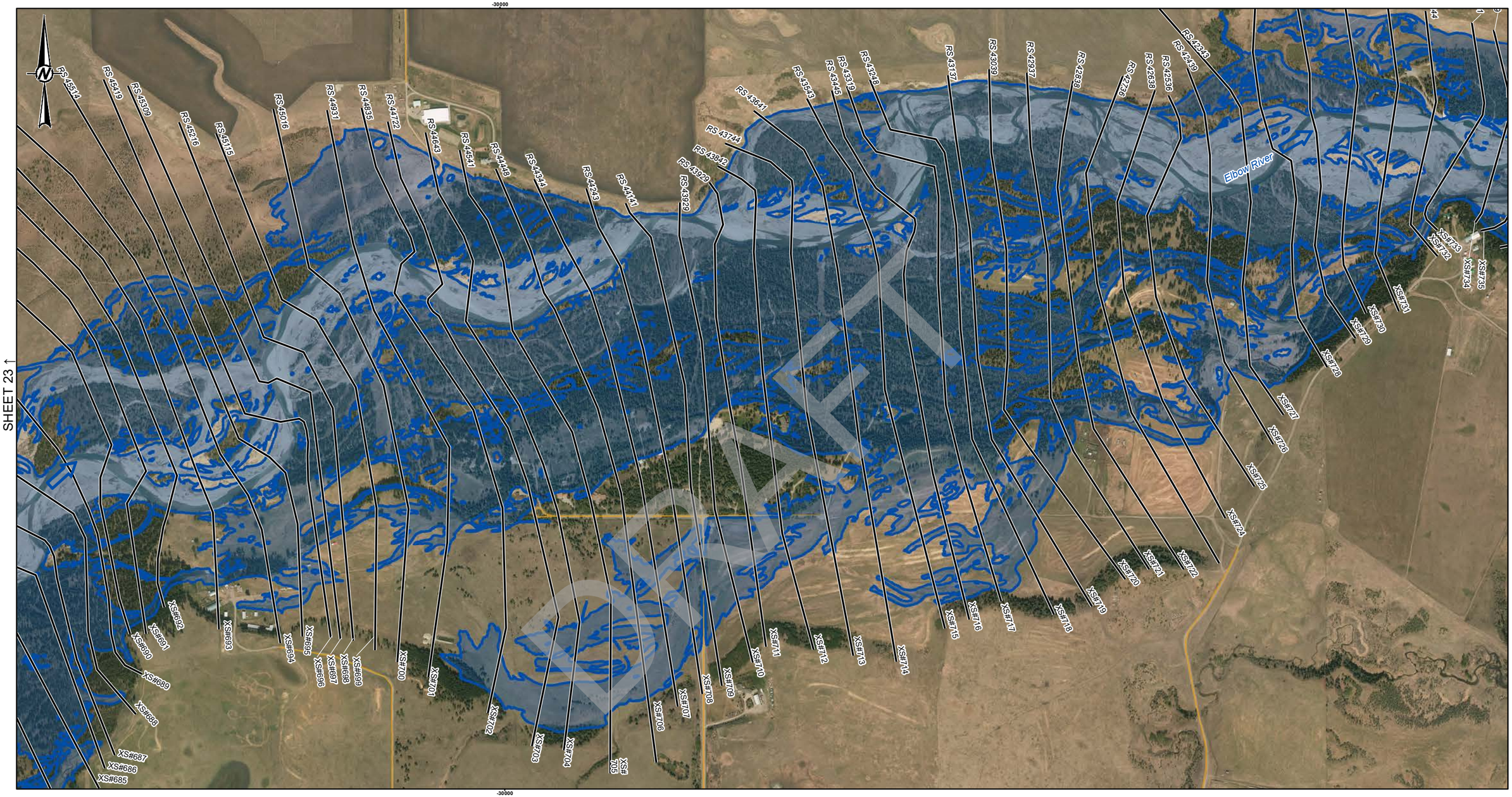
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:02:34 PM

Classification: Public



LEGEND

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

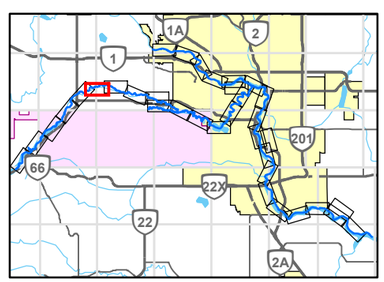
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

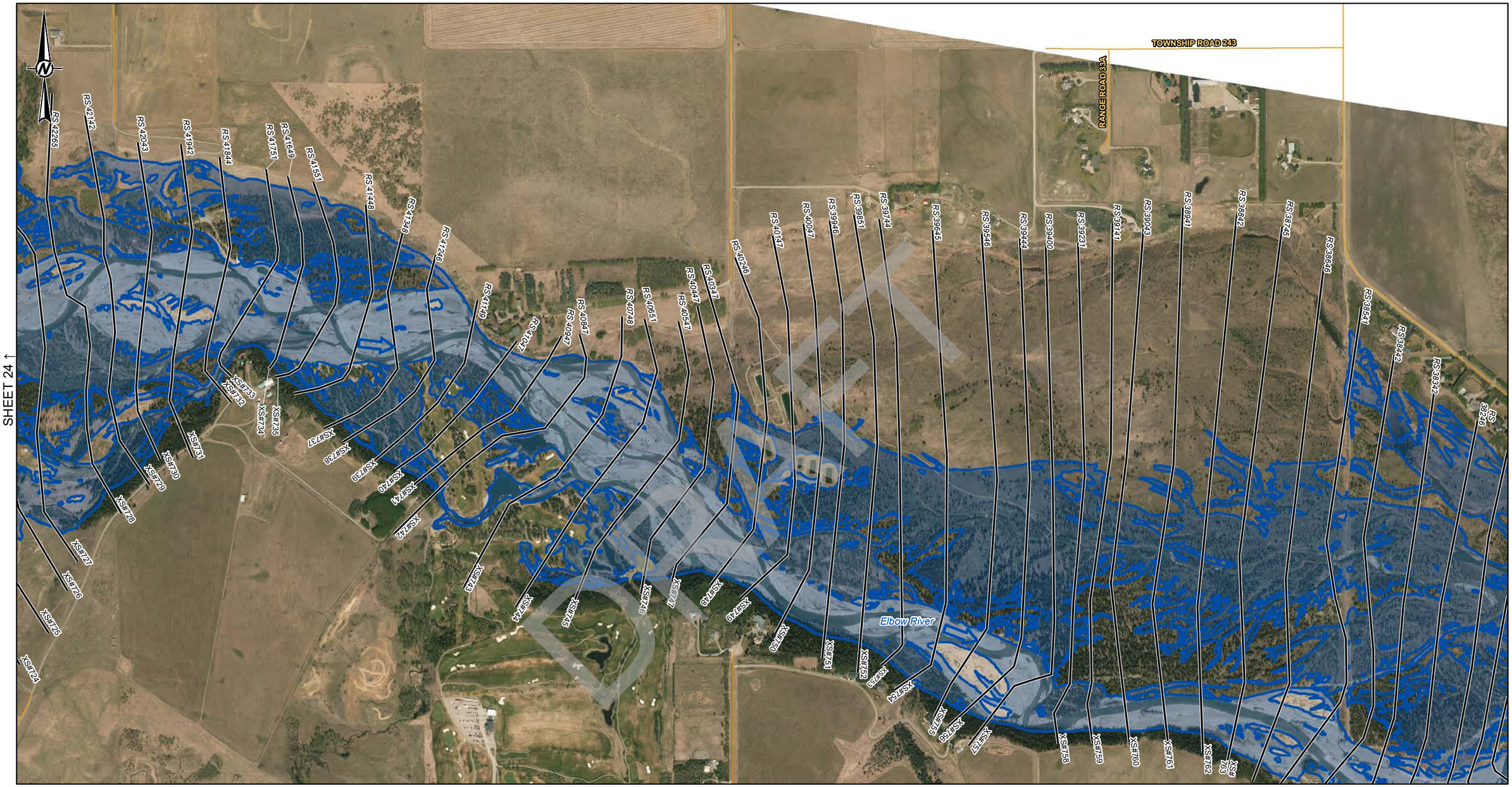
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:05:16 PM

Classification: Public



LEGEND

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

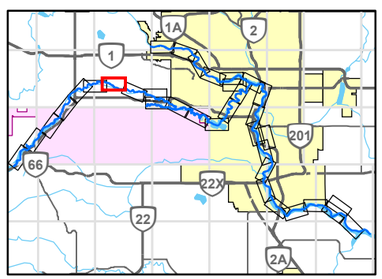
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

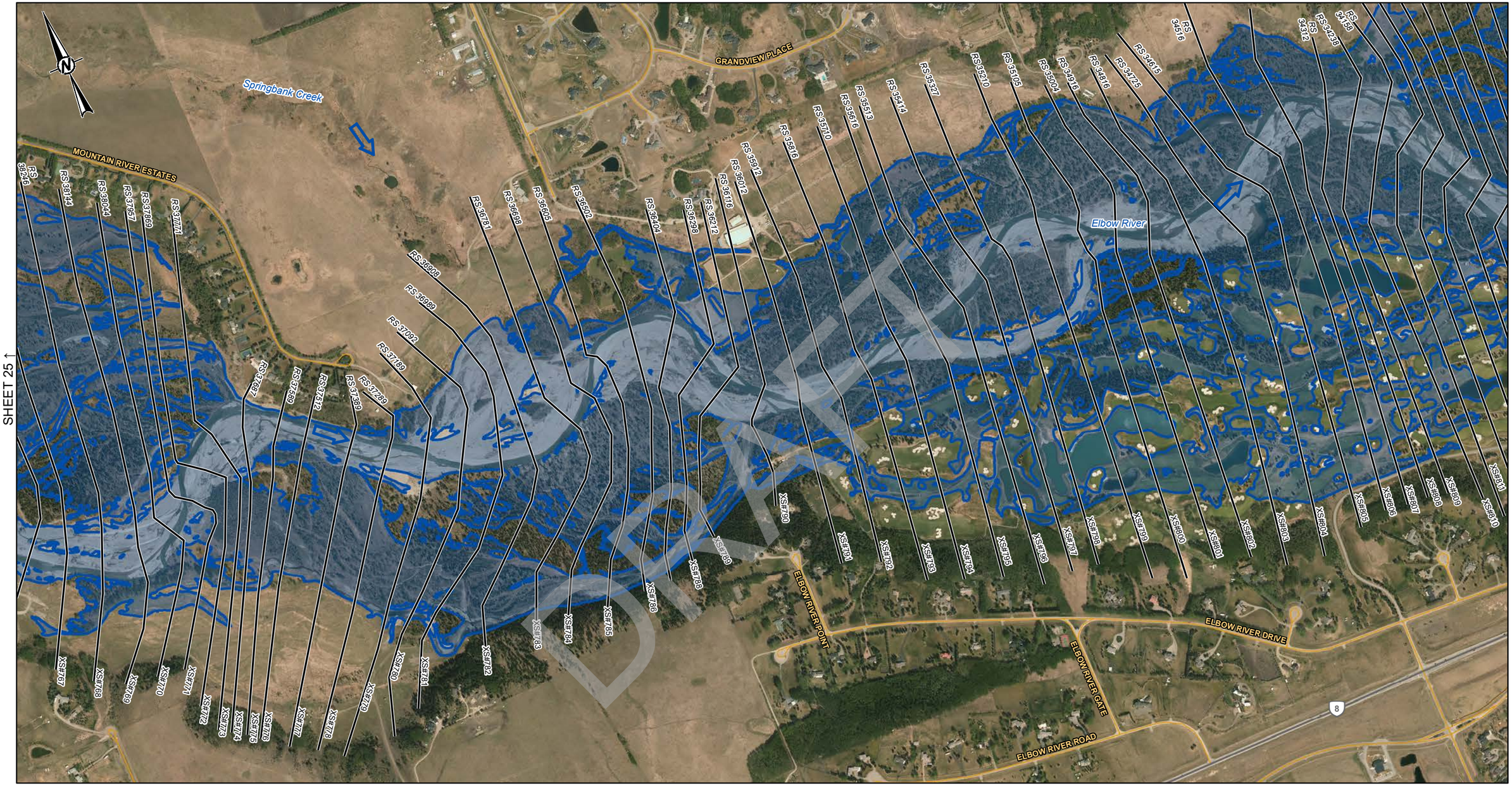
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:07:23 PM

Classification: Public



DRAFT

LEGEND

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

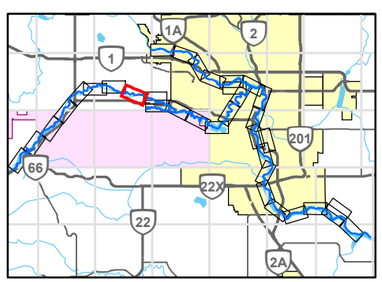
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 377 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

25mm

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-x-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:09:56 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓

-20000

RS 34238
RS 34156
RS 34080
RS 33920
RS 33840
RS 33760
RS 33681
RS 33603
RS 33521
RS 33442
RS 33363
RS 33280
RS 33200
RS 33124
RS 32961
RS 32883
RS 32808
RS 32729
RS 32650
RS 32570
RS 32488
RS 32329
RS 32249
RS 32167
RS 32088
RS 32008
RS 31927
RS 31850
RS 31769
RS 31688
RS 31615
RS 31523
RS 31450
RS 31377
RS 31283
RS 31208
RS 31123
RS 31047
RS 30944
RS 30828
RS 30728
RS 30648
RS 30558
RS 30478
RS 30319
RS 30237
RS 30170
RS 30087
RS 30012
RS 29936
RS 29859
RS 29776
RS 29743
RS 29647

XS#810 XS#811 XS#812 XS#813 XS#814 XS#815 XS#816 XS#817 XS#818 XS#819 XS#820 XS#821 XS#822 XS#823 XS#824 XS#825 XS#826 XS#827 XS#828 XS#829 XS#830 XS#831 XS#832 XS#833 XS#834 XS#835 XS#836 XS#837 XS#838 XS#839 XS#840 XS#841 XS#842 XS#843 XS#844 XS#845 XS#846 XS#847 XS#848 XS#849 XS#850 XS#851 XS#852 XS#853 XS#854 XS#855 XS#856 XS#857 XS#858 XS#859 XS#860 XS#861 XS#862 XS#863 XS#864

STONEPINE COVE
STONEPINE DRIVE
GRANITE RIDGE
WHISPERING WATER TRAIL
WHISPERING WATER BEND
WINGING RIVER WAY
ELBOW RIDGE BLUFFS
PINERIDGE WAY SOUTHWEST
Elbow River
8

LEGEND

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

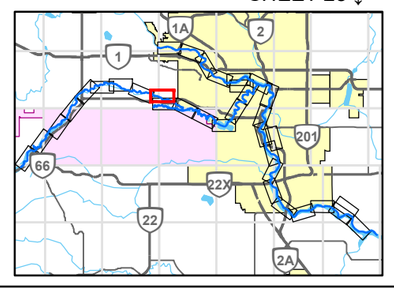
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S
LOTT CREEK = 16.7 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

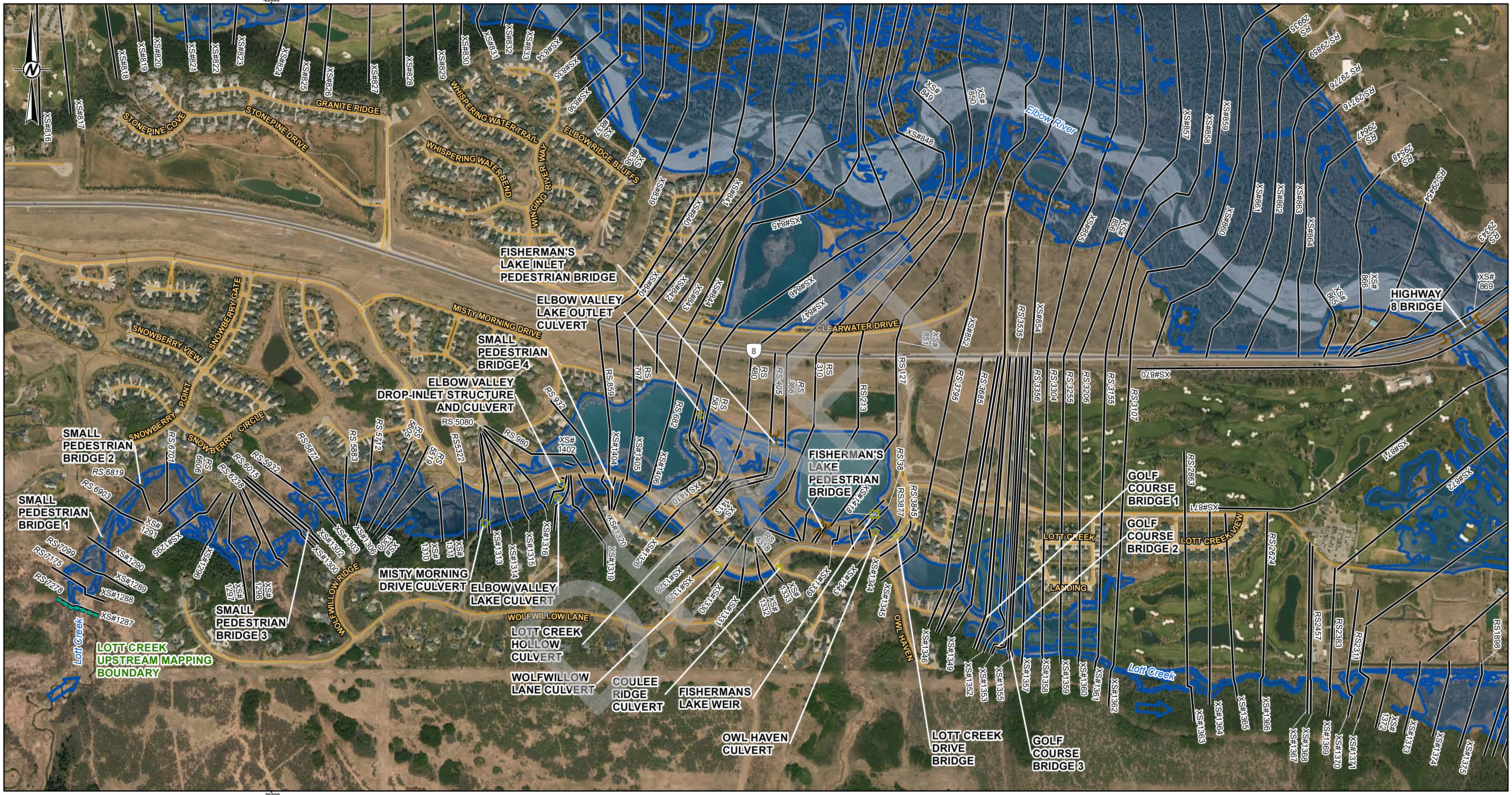
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:13:06 PM

Classification: Public

SHEET 27 ↑



SHEET 29 ↓

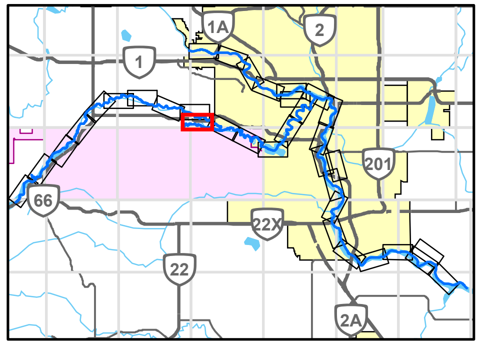
LEGEND

CROSS SECTION	FLOOD CONTROL STRUCTURE
XS#100 CROSS SECTION NUMBER	**HYDRAULIC STRUCTURES**
RS 304 RIVER STATION (M)	CULVERT
STUDY BOUNDARY	DAM
FLOW DIRECTION	OTHER
LOCAL ROAD	WEIR
PATHWAY	BRIDGE
PRIMARY HIGHWAY	
SECONDARY HIGHWAY	
RAILWAY	

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S
LOTT CREEK = 16.7 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:16:11 PM

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

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

Elbow River

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

RS 28664 RS 28610 RS 28380 RS 28113 RS 27993 RS 27871 RS 27712 RS 27540 RS 27385 RS 27226 RS 27003 RS 26904 RS 26810 RS 26672 RS 26530 RS 26419 RS 26235 RS 26088 RS 25697 RS 25556 RS 25370 RS 25223 RS 24997 RS 24824 RS 24669 RS 24527 RS 24414 RS 24343 RS 24138 RS 24049

XS#879 XS#872 XS#873 XS#874 XS#875 XS#876 XS#877 XS#878 XS#880 XS#882 XS#883 XS#884 XS#885 XS#886 XS#887 XS#888 XS#889 XS#890 XS#891 XS#892 XS#893 XS#894 XS#895 XS#896 XS#897 XS#898 XS#899 XS#900 XS#901 XS#902 XS#903 XS#904 XS#905 XS#906 XS#907 XS#908

RS 1502 RS 1503 RS 1504 RS 65 RS 1099 RS 1098 RS 1097 RS 1096 RS 1095 RS 1094 RS 1093 RS 1092 RS 1091 RS 1090 RS 1089 RS 1088 RS 1087 RS 1086 RS 1085 RS 1084 RS 1083 RS 1082 RS 1081 RS 1080 RS 1079 RS 1078 RS 1077 RS 1076 RS 1075 RS 1074 RS 1073 RS 1072 RS 1071 RS 1070 RS 1069 RS 1068 RS 1067 RS 1066 RS 1065 RS 1064 RS 1063 RS 1062 RS 1061 RS 1060 RS 1059 RS 1058 RS 1057 RS 1056 RS 1055 RS 1054 RS 1053 RS 1052 RS 1051 RS 1050 RS 1049 RS 1048 RS 1047 RS 1046 RS 1045 RS 1044 RS 1043 RS 1042 RS 1041 RS 1040 RS 1039 RS 1038 RS 1037 RS 1036 RS 1035 RS 1034 RS 1033 RS 1032 RS 1031 RS 1030 RS 1029 RS 1028 RS 1027 RS 1026 RS 1025 RS 1024 RS 1023 RS 1022 RS 1021 RS 1020 RS 1019 RS 1018 RS 1017 RS 1016 RS 1015 RS 1014 RS 1013 RS 1012 RS 1011 RS 1010 RS 1009 RS 1008 RS 1007 RS 1006 RS 1005 RS 1004 RS 1003 RS 1002 RS 1001 RS 1000 RS 999 RS 998 RS 997 RS 996 RS 995 RS 994 RS 993 RS 992 RS 991 RS 990 RS 989 RS 988 RS 987 RS 986 RS 985 RS 984 RS 983 RS 982 RS 981 RS 980 RS 979 RS 978 RS 977 RS 976 RS 975 RS 974 RS 973 RS 972 RS 971 RS 970 RS 969 RS 968 RS 967 RS 966 RS 965 RS 964 RS 963 RS 962 RS 961 RS 960 RS 959 RS 958 RS 957 RS 956 RS 955 RS 954 RS 953 RS 952 RS 951 RS 950 RS 949 RS 948 RS 947 RS 946 RS 945 RS 944 RS 943 RS 942 RS 941 RS 940 RS 939 RS 938 RS 937 RS 936 RS 935 RS 934 RS 933 RS 932 RS 931 RS 930 RS 929 RS 928 RS 927 RS 926 RS 925 RS 924 RS 923 RS 922 RS 921 RS 920 RS 919 RS 918 RS 917 RS 916 RS 915 RS 914 RS 913 RS 912 RS 911 RS 910 RS 909 RS 908 RS 907 RS 906 RS 905 RS 904 RS 903 RS 902 RS 901 RS 900 RS 899 RS 898 RS 897 RS 896 RS 895 RS 894 RS 893 RS 892 RS 891 RS 890 RS 889 RS 888 RS 887 RS 886 RS 885 RS 884 RS 883 RS 882 RS 881 RS 880 RS 879 RS 878 RS 877 RS 876 RS 875 RS 874 RS 873 RS 872 RS 871 RS 870 RS 869 RS 868 RS 867 RS 866 RS 865 RS 864 RS 863 RS 862 RS 861 RS 860 RS 859 RS 858 RS 857 RS 856 RS 855 RS 854 RS 853 RS 852 RS 851 RS 850 RS 849 RS 848 RS 847 RS 846 RS 845 RS 844 RS 843 RS 842 RS 841 RS 840 RS 839 RS 838 RS 837 RS 836 RS 835 RS 834 RS 833 RS 832 RS 831 RS 830 RS 829 RS 828 RS 827 RS 826 RS 825 RS 824 RS 823 RS 822 RS 821 RS 820 RS 819 RS 818 RS 817 RS 816 RS 815 RS 814 RS 813 RS 812 RS 811 RS 810 RS 809 RS 808 RS 807 RS 806 RS 805 RS 804 RS 803 RS 802 RS 801 RS 800 RS 799 RS 798 RS 797 RS 796 RS 795 RS 794 RS 793 RS 792 RS 791 RS 790 RS 789 RS 788 RS 787 RS 786 RS 785 RS 784 RS 783 RS 782 RS 781 RS 780 RS 779 RS 778 RS 777 RS 776 RS 775 RS 774 RS 773 RS 772 RS 771 RS 770 RS 769 RS 768 RS 767 RS 766 RS 765 RS 764 RS 763 RS 762 RS 761 RS 760 RS 759 RS 758 RS 757 RS 756 RS 755 RS 754 RS 753 RS 752 RS 751 RS 750 RS 749 RS 748 RS 747 RS 746 RS 745 RS 744 RS 743 RS 742 RS 741 RS 740 RS 739 RS 738 RS 737 RS 736 RS 735 RS 734 RS 733 RS 732 RS 731 RS 730 RS 729 RS 728 RS 727 RS 726 RS 725 RS 724 RS 723 RS 722 RS 721 RS 720 RS 719 RS 718 RS 717 RS 716 RS 715 RS 714 RS 713 RS 712 RS 711 RS 710 RS 709 RS 708 RS 707 RS 706 RS 705 RS 704 RS 703 RS 702 RS 701 RS 700 RS 699 RS 698 RS 697 RS 696 RS 695 RS 694 RS 693 RS 692 RS 691 RS 690 RS 689 RS 688 RS 687 RS 686 RS 685 RS 684 RS 683 RS 682 RS 681 RS 680 RS 679 RS 678 RS 677 RS 676 RS 675 RS 674 RS 673 RS 672 RS 671 RS 670 RS 669 RS 668 RS 667 RS 666 RS 665 RS 664 RS 663 RS 662 RS 661 RS 660 RS 659 RS 658 RS 657 RS 656 RS 655 RS 654 RS 653 RS 652 RS 651 RS 650 RS 649 RS 648 RS 647 RS 646 RS 645 RS 644 RS 643 RS 642 RS 641 RS 640 RS 639 RS 638 RS 637 RS 636 RS 635 RS 634 RS 633 RS 632 RS 631 RS 630 RS 629 RS 628 RS 627 RS 626 RS 625 RS 624 RS 623 RS 622 RS 621 RS 620 RS 619 RS 618 RS 617 RS 616 RS 615 RS 614 RS 613 RS 612 RS 611 RS 610 RS 609 RS 608 RS 607 RS 606 RS 605 RS 604 RS 603 RS 602 RS 601 RS 600 RS 599 RS 598 RS 597 RS 596 RS 595 RS 594 RS 593 RS 592 RS 591 RS 590 RS 589 RS 588 RS 587 RS 586 RS 585 RS 584 RS 583 RS 582 RS 581 RS 580 RS 579 RS 578 RS 577 RS 576 RS 575 RS 574 RS 573 RS 572 RS 571 RS 570 RS 569 RS 568 RS 567 RS 566 RS 565 RS 564 RS 563 RS 562 RS 561 RS 560 RS 559 RS 558 RS 557 RS 556 RS 555 RS 554 RS 553 RS 552 RS 551 RS 550 RS 549 RS 548 RS 547 RS 546 RS 545 RS 544 RS 543 RS 542 RS 541 RS 540 RS 539 RS 538 RS 537 RS 536 RS 535 RS 534 RS 533 RS 532 RS 531 RS 530 RS 529 RS 528 RS 527 RS 526 RS 525 RS 524 RS 523 RS 522 RS 521 RS 520 RS 519 RS 518 RS 517 RS 516 RS 515 RS 514 RS 513 RS 512 RS 511 RS 510 RS 509 RS 508 RS 507 RS 506 RS 505 RS 504 RS 503 RS 502 RS 501 RS 500 RS 499 RS 498 RS 497 RS 496 RS 495 RS 494 RS 493 RS 492 RS 491 RS 490 RS 489 RS 488 RS 487 RS 486 RS 485 RS 484 RS 483 RS 482 RS 481 RS 480 RS 479 RS 478 RS 477 RS 476 RS 475 RS 474 RS 473 RS 472 RS 471 RS 470 RS 469 RS 468 RS 467 RS 466 RS 465 RS 464 RS 463 RS 462 RS 461 RS 460 RS 459 RS 458 RS 457 RS 456 RS 455 RS 454 RS 453 RS 452 RS 451 RS 450 RS 449 RS 448 RS 447 RS 446 RS 445 RS 444 RS 443 RS 442 RS 441 RS 440 RS 439 RS 438 RS 437 RS 436 RS 435 RS 434 RS 433 RS 432 RS 431 RS 430 RS 429 RS 428 RS 427 RS 426 RS 425 RS 424 RS 423 RS 422 RS 421 RS 420 RS 419 RS 418 RS 417 RS 416 RS 415 RS 414 RS 413 RS 412 RS 411 RS 410 RS 409 RS 408 RS 407 RS 406 RS 405 RS 404 RS 403 RS 402 RS 401 RS 400 RS 399 RS 398 RS 397 RS 396 RS 395 RS 394 RS 393 RS 392 RS 391 RS 390 RS 389 RS 388 RS 387 RS 386 RS 385 RS 384 RS 383 RS 382 RS 381 RS 380 RS 379 RS 378 RS 377 RS 376 RS 375 RS 374 RS 373 RS 372 RS 371 RS 370 RS 369 RS 368 RS 367 RS 366 RS 365 RS 364 RS 363 RS 362 RS 361 RS 360 RS 359 RS 358 RS 357 RS 356 RS 355 RS 354 RS 353 RS 352 RS 351 RS 350 RS 349 RS 348 RS 347 RS 346 RS 345 RS 344 RS 343 RS 342 RS 341 RS 340 RS 339 RS 338 RS 337 RS 336 RS 335 RS 334 RS 333 RS 332 RS 331 RS 330 RS 329 RS 328 RS 327 RS 326 RS 325 RS 324 RS 323 RS 322 RS 321 RS 320 RS 319 RS 318 RS 317 RS 316 RS 315 RS 314 RS 313 RS 312 RS 311 RS 310 RS 309 RS 308 RS 307 RS 306 RS 305 RS 304 RS 303 RS 302 RS 301 RS 300 RS 299 RS 298 RS 297 RS 296 RS 295 RS 294 RS 293 RS 292 RS 291 RS 290 RS 289 RS 288 RS 287 RS 286 RS 285 RS 284 RS 283 RS 282 RS 281 RS 280 RS 279 RS 278 RS 277 RS 276 RS 275 RS 274 RS 273 RS 272 RS 271 RS 270 RS 269 RS 268 RS 267 RS 266 RS 265 RS 264 RS 263 RS 262 RS 261 RS 260 RS 259 RS 258 RS 257 RS 256 RS 255 RS 254 RS 253 RS 252 RS 251 RS 250 RS 249 RS 248 RS 247 RS 246 RS 245 RS 244 RS 243 RS 242 RS 241 RS 240 RS 239 RS 238 RS 237 RS 236 RS 235 RS 234 RS 233 RS 232 RS 231 RS 230 RS 229 RS 228 RS 227 RS 226 RS 225 RS 224 RS 223 RS 222 RS 221 RS 220 RS 219 RS 218 RS 217 RS 216 RS 215 RS 214 RS 213 RS 212 RS 211 RS 210 RS 209 RS 208 RS 207 RS 206 RS 205 RS 204 RS 203 RS 202 RS 201 RS 200 RS 199 RS 198 RS 197 RS 196 RS 195 RS 194 RS 193 RS 192 RS 191 RS 190 RS 189 RS 188 RS 187 RS 186 RS 185 RS 184 RS 183 RS 182 RS 181 RS 180 RS 179 RS 178 RS 177 RS 176 RS 175 RS 174 RS 173 RS 172 RS 171 RS 170 RS 169 RS 168 RS 167 RS 166 RS 165 RS 164 RS 163 RS 162 RS 161 RS 160 RS 159 RS 158 RS 157 RS 156 RS 155 RS 154 RS 153 RS 152 RS 151 RS 150 RS 149 RS 148 RS 147 RS 146 RS 145 RS 144 RS 143 RS 142 RS 141 RS 140 RS 139 RS 138 RS 137 RS 136 RS 135 RS 134 RS 133 RS 132 RS 131 RS 130 RS 129 RS 128 RS 127 RS 126 RS 125 RS 124 RS 123 RS 122 RS 121 RS 120 RS 119 RS 118 RS 117 RS 116 RS 115 RS 114 RS 113 RS 112 RS 111 RS 110 RS 109 RS 108 RS 107 RS 106 RS 105 RS 104 RS 103 RS 102 RS 101 RS 100 RS 99 RS 98 RS 97 RS 96 RS 95 RS 94 RS 93 RS 92 RS 91 RS 90 RS 89 RS 88 RS 87 RS 86 RS 85 RS 84 RS 83 RS 82 RS 81 RS 80 RS 79 RS 78 RS 77 RS 76 RS 75 RS 74 RS 73 RS 72 RS 71 RS 70 RS 69 RS 68 RS 67 RS 66 RS 65 RS 64 RS 63 RS 62 RS 61 RS 60 RS 59 RS 58 RS 57 RS 56 RS 55 RS 54 RS 53 RS 52 RS 51 RS 50 RS 49 RS 48 RS 47 RS 46 RS 45 RS 44 RS 43 RS 42 RS 41 RS 40 RS 39 RS 38 RS 37 RS 36 RS 35 RS 34 RS 33 RS 32 RS 31 RS 30 RS 29 RS 28 RS 27 RS 26 RS 25 RS 24 RS 23 RS 22 RS 21 RS 20 RS 19 RS 18 RS 17 RS 16 RS 15 RS 14 RS 13 RS 12 RS 11 RS 10 RS 9 RS 8 RS 7 RS 6 RS 5 RS 4 RS 3 RS 2 RS 1 RS 0

LEGEND

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

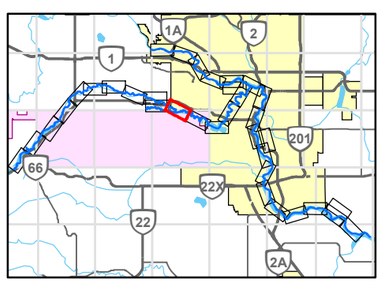
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S
LOTT CREEK = 16.7 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

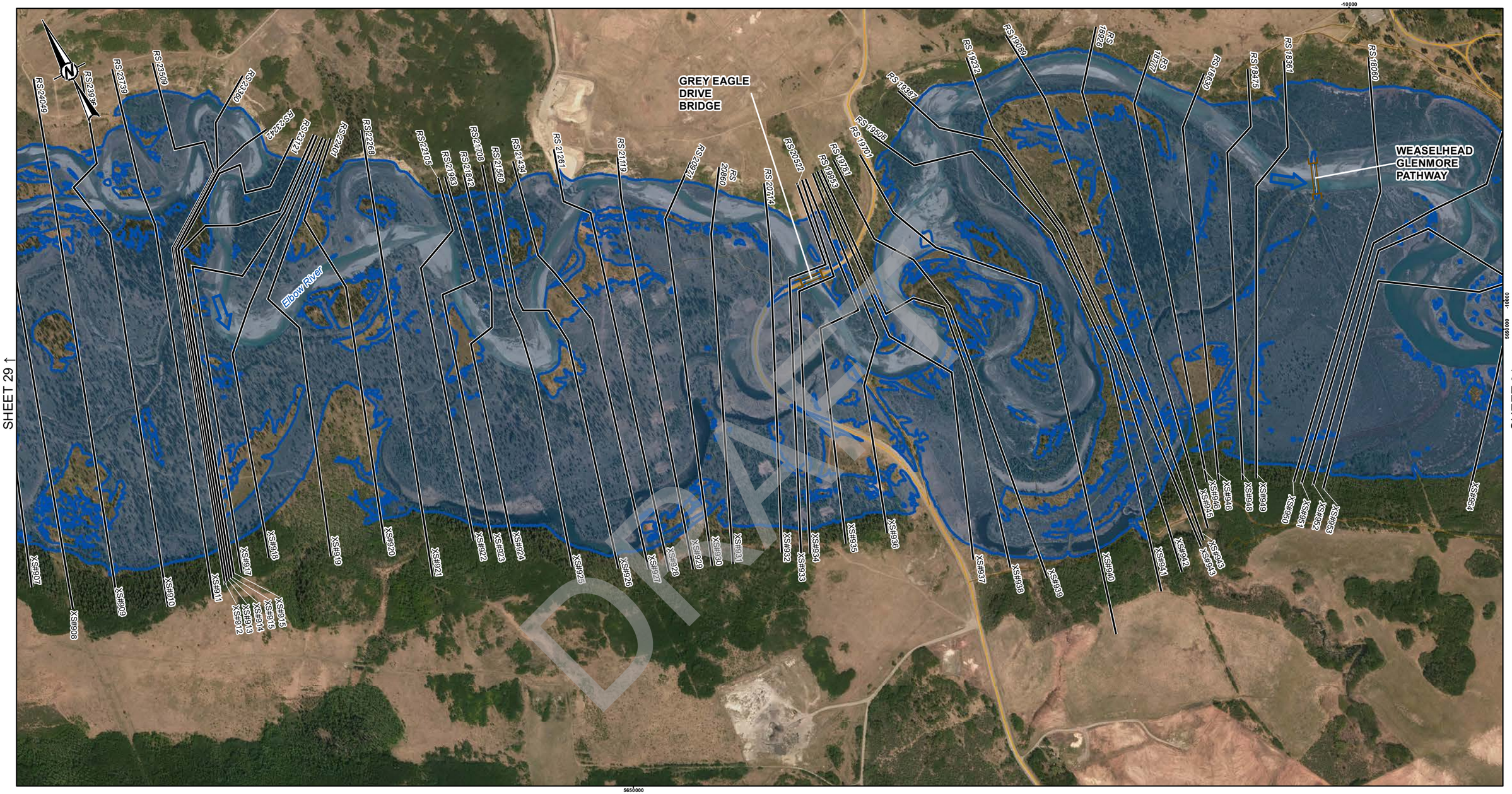
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:19:43 PM

Classification: Public



LEGEND

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

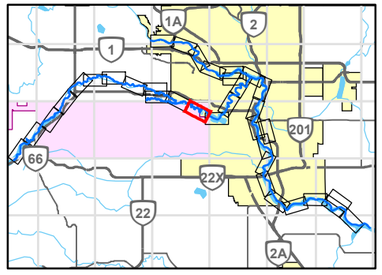
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

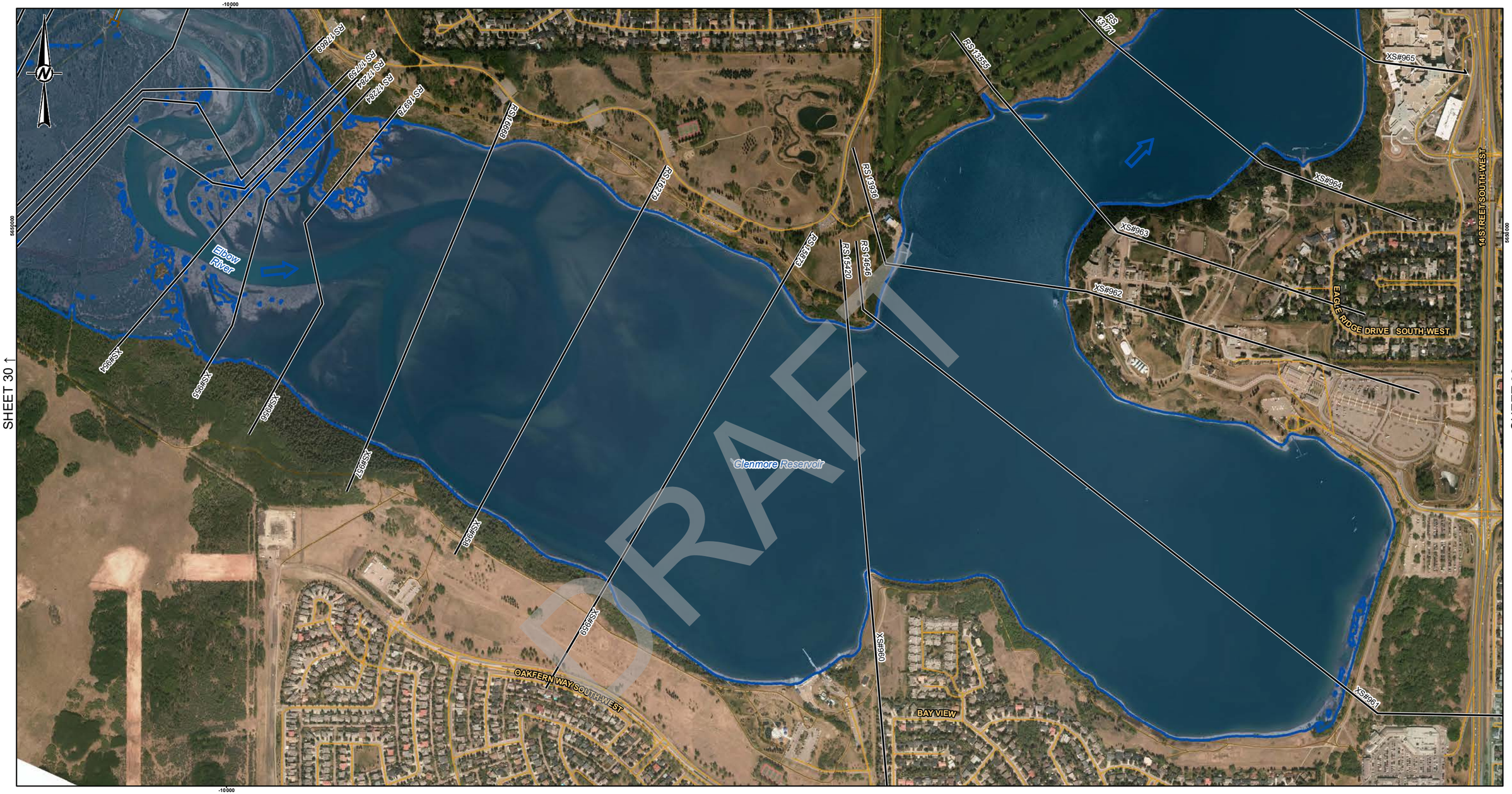
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

© 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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:22:46 PM

Classification: Public



LEGEND

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

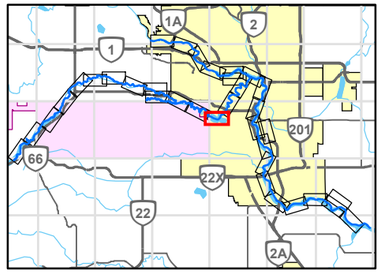
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 379 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:25:42 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓

DRAFT

LEGEND

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

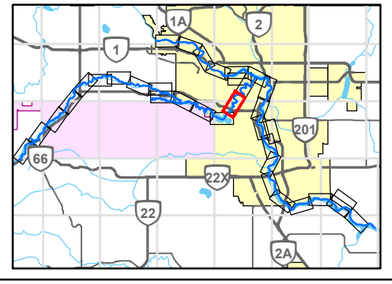
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 379 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm 0

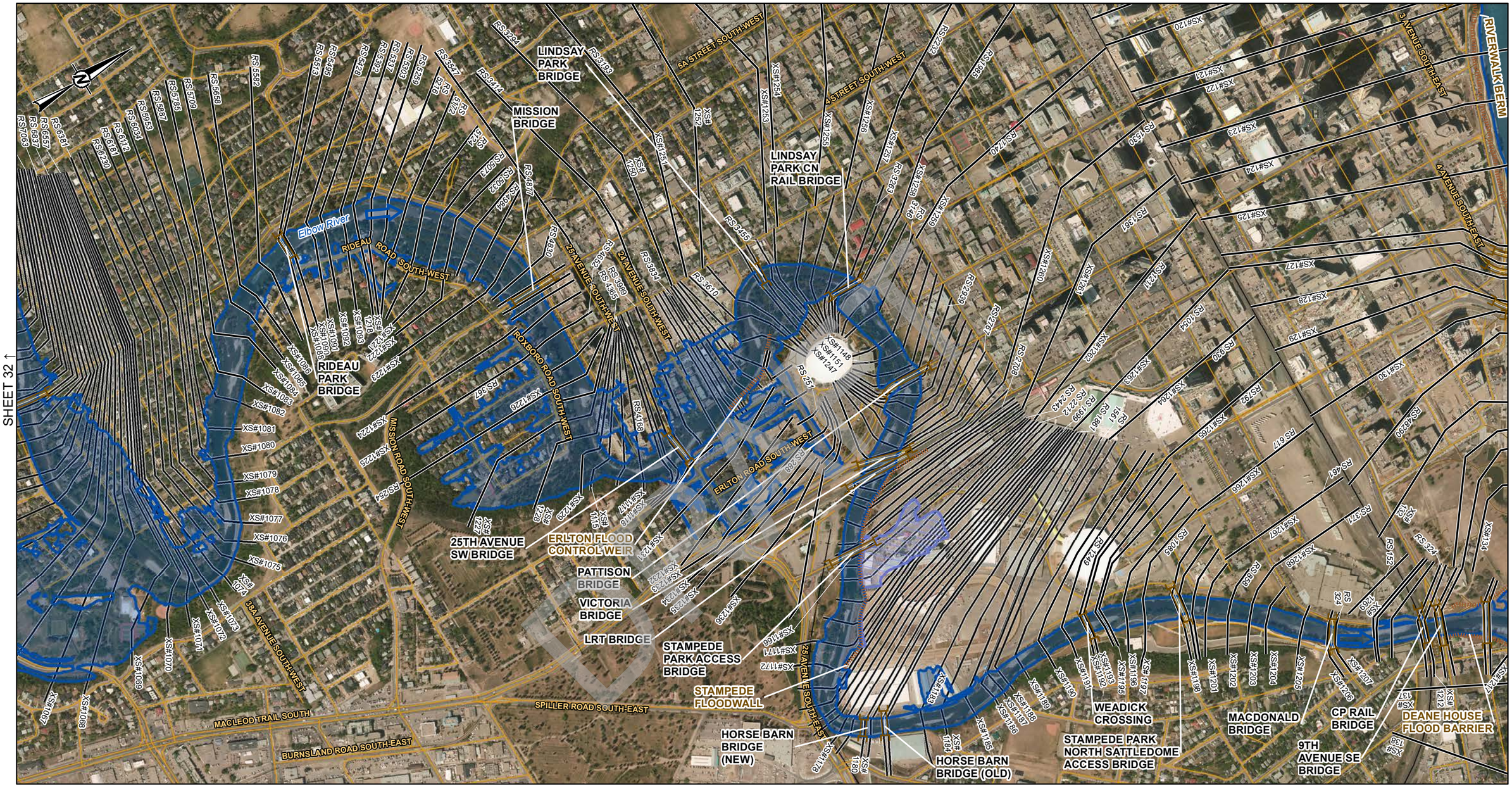
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:28:48 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

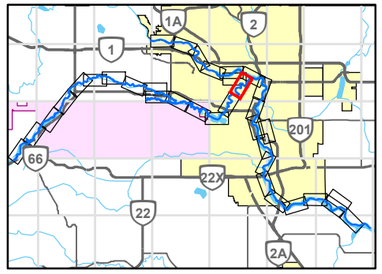
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 379 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1310 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

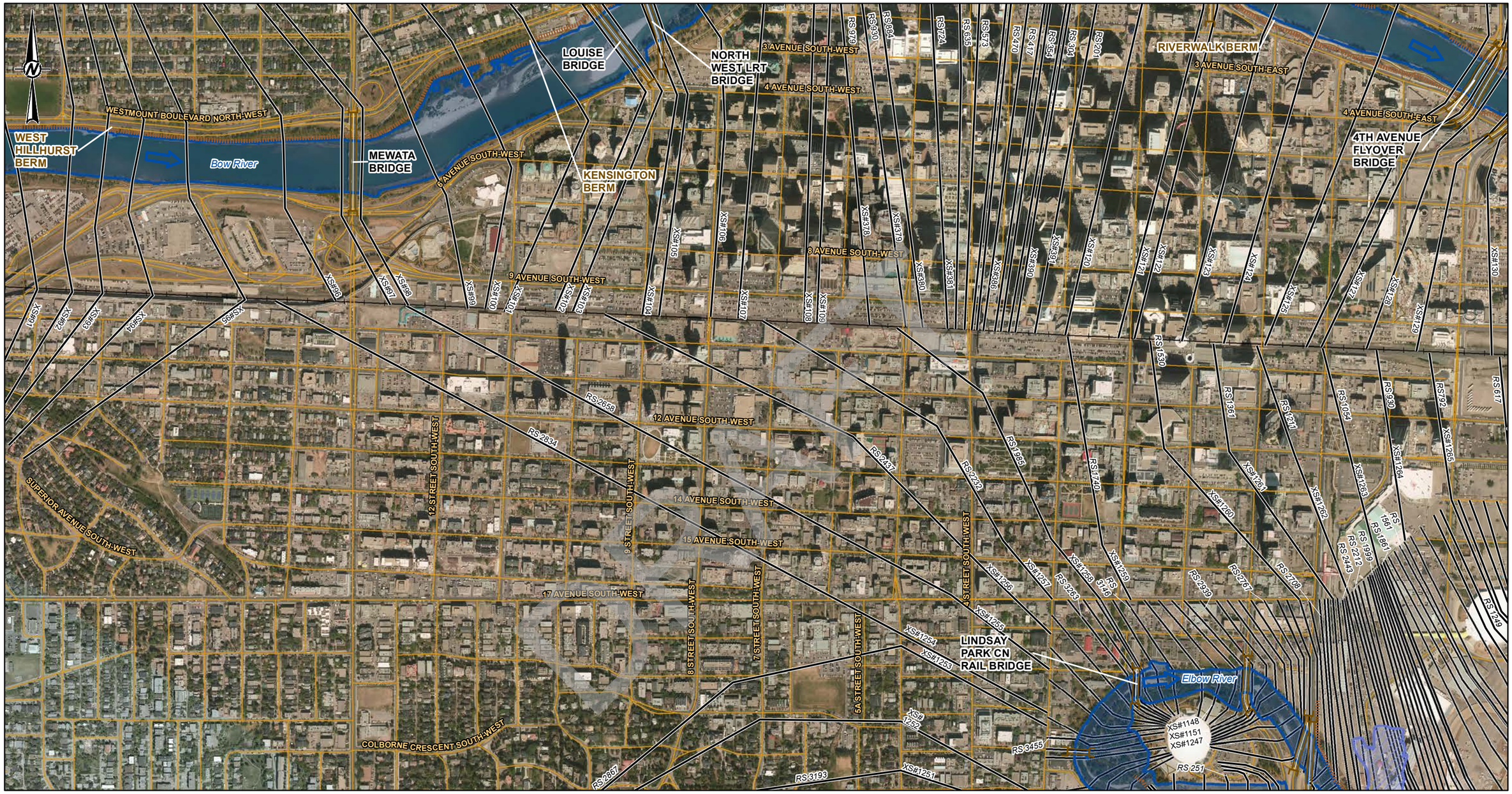
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:30:22 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

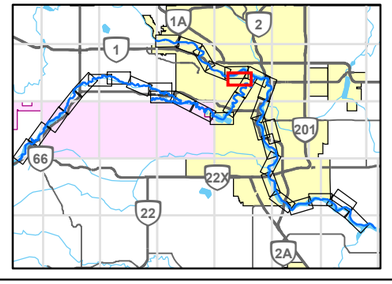
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

20-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1120 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 379 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
20-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:33:29 PM
Classification: Public

35-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

BOW RIVER UPSTEAM MAPPING BOUNDARY

BEARSPAW DAM

RS 69677
RS 69470
RS 69224
RS 69034
RS 68801
RS 68607
RS 68262
RS 67838
RS 67524
RS 67197
RS 66720
RS 66484
RS 66280
RS 66062
RS 65837
RS 65148
RS 65024

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

NOSE HILL DRIVE NORTH-WEST

BEARSPAW DAM ROAD NORTH-WEST

VALLEY WOODS WAY NORTH-WEST

VALLEY RIDGE BOULEVARD NORTH-WEST

VALLEY RIDGE GREEN NORTH-WEST

VALLEY SPRINGS ROAD NORTH-WEST

Bow River

201

STONEY TRAIL BRIDGE

SHEET 2 ↓

DRAFT

LEGEND

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

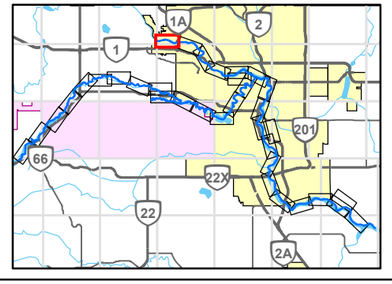
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:18:55 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

Bow River

67 STREET NORTH-WEST

51 AVENUE NORTH-WEST

SILVERVIEW DRIVE NORTH-WEST

49 AVENUE NORTH-WEST

47 AVENUE NORTH-WEST

44 AVENUE NORTH-WEST

43 AVENUE NORTH-WEST

41 AVENUE NORTH-WEST

39 AVENUE NORTH-WEST

37 AVENUE NORTH-WEST

36 AVENUE NORTH-WEST

35 AVENUE NORTH-WEST

34 AVENUE NORTH-WEST

33 AVENUE NORTH-WEST

29 AVENUE NORTH-WEST

BOWGLEN ROAD NORTH-WEST

PALM WAY NORTH-WEST

APPLE WAY NORTH-WEST

WILLOW WAY NORTH-WEST

CEDAR WAY NORTH-WEST

ASPEN WAY NORTH-WEST

ASPEN DRIVE NORTH-WEST

88 STREET NORTH-WEST

86 STREET NORTH-WEST

85 STREET NORTH-WEST

83 STREET NORTH-WEST

81 STREET NORTH-WEST

80 STREET NORTH-WEST

79 STREET NORTH-WEST

77 STREET NORTH-WEST

75 STREET NORTH-WEST

73 STREET NORTH-WEST

72 STREET NORTH-WEST

70 STREET NORTH-WEST

69 STREET NORTH-WEST

67 STREET NORTH-WEST

RS 63795

RS 64212

RS 63720

RS 63573

RS 63403

RS 63162

RS 62954

RS 62746

RS 62477

RS 62155

RS 61879

RS 64750

RS 64915

RS 65103

RS 65296

RS 65467

RS 65687

RS 64528

RS 64557

RS 64410

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

201 1 66 22X 22 2A

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S

0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

0 25mm

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:20:31 PM

Classification: Public

SHEET 2 ↑

SHEET 4 ↓

5660000

-10000

VARSITY ROAD NORTHWEST

MONTALBAN DRIVE NORTH-WEST

23 AVENUE NORTH-WEST

MACKAY ROAD NORTH-WEST

22 AVENUE NORTH-WEST

21 AVENUE NORTH-WEST

VETERANS WAY NORTH-WEST

HARRY BOOTHMAN BRIDGE

MONTGOMERY BERM

HEXTALL BRIDGE

SHOULDICE BRIDGE

TRANS-CANADA HIGHWAY BRIDGE

Bow River

13 AVENUE NORTH-WEST

67 STREET NORTH-WEST

69 STREET NORTH-WEST

29 AVENUE NORTH-WEST

SARCEE TRAIL SOUTH-WEST

PATINA DRIVE SOUTH-WEST

RS 60668, RS 61423, RS 61402, RS 60696, RS 60670, RS 60582, RS 60250, RS 59651, RS 59489, RS 59392, RS 59231, RS 59074, RS 58789, RS 58702, RS 58630, RS 58335, RS 58097, RS 57831, RS 57610, RS 57490, RS 57219, RS 57049, RS 57081, RS 56912, RS 56731, RS 56529, RS 56353

XS#41, XS#42, XS#43, XS#49, XS#52, XS#53, XS#54, XS#55, XS#56, XS#57, XS#58, XS#59, XS#60, XS#61, XS#62, XS#63, XS#64, XS#65, XS#66, XS#67, XS#68, XS#69, XS#70, XS#71, XS#72

LEGEND

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

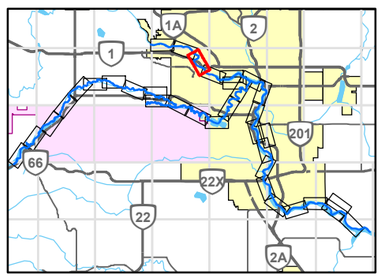
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:22:22 PM

Classification: Public

LEGEND

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

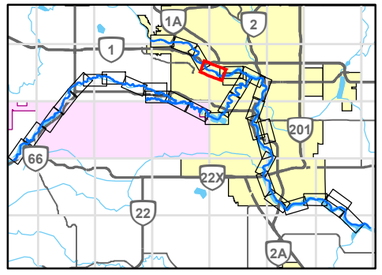
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:25:19 PM

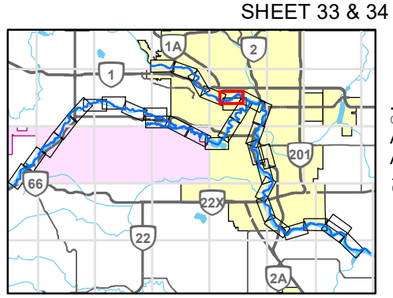
Classification: Public

SHEET 4 ↑

SHEET 6 ↓

10 AVENUE NORTH-WEST
8 AVENUE NORTH-WEST
6 AVENUE NORTH-WEST
3 AVENUE NORTH-WEST
1 AVENUE NORTH-WEST
WESTMOUNT ROAD NORTH-WEST
WESTMOUNT BOULEVARD NORTH-WEST
15 STREET NORTH-WEST
16 STREET NORTH-WEST
13 STREET NORTH-WEST
11 STREET NORTH-WEST
GLADSTONE ROAD NORTH-WEST
7 STREET NORTH-WEST
5A STREET NORTH-WEST
4A STREET NORTH-WEST
1 AVENUE SOUTH-WEST
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
6 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
3 AVENUE SOUTH-EAST
SUNNYSIDE BARRIER
PEACE BRIDGE
PRINCE'S ISLAND CAUSEWAY
PRINCE'S ISLAND BRIDGE
PRINCE'S ISLAND BRIDGE ON SIDE CHANNEL
PRINCE'S LAGOON WEIRS
JAIPUR BRIDGE
WEST EAU CLAIRE FLOOD BARRIER
CENTRE STREET BRIDGE
CENTRE STREET BRIDGE BARRIER
MEMORIAL DRIVE BERM
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
WEST HILLHURST BERM
MEWATA BRIDGE
CROWCHILD TRAIL BRIDGE
Bow River

SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

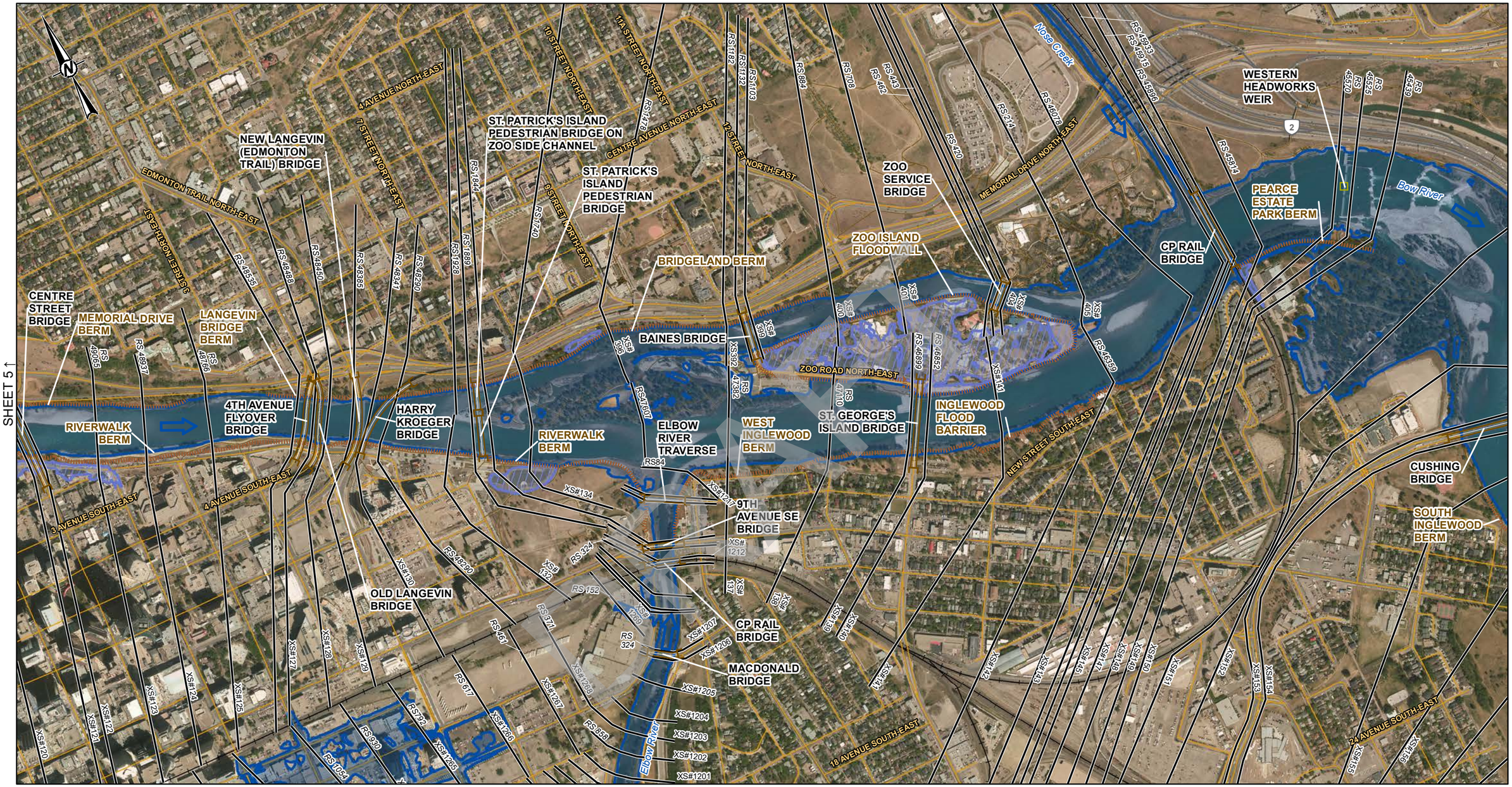
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:27:35 PM



LEGEND

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

HYDRAULIC STRUCTURES

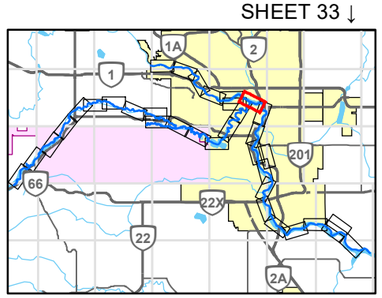
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 509 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1630 M^3/S
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

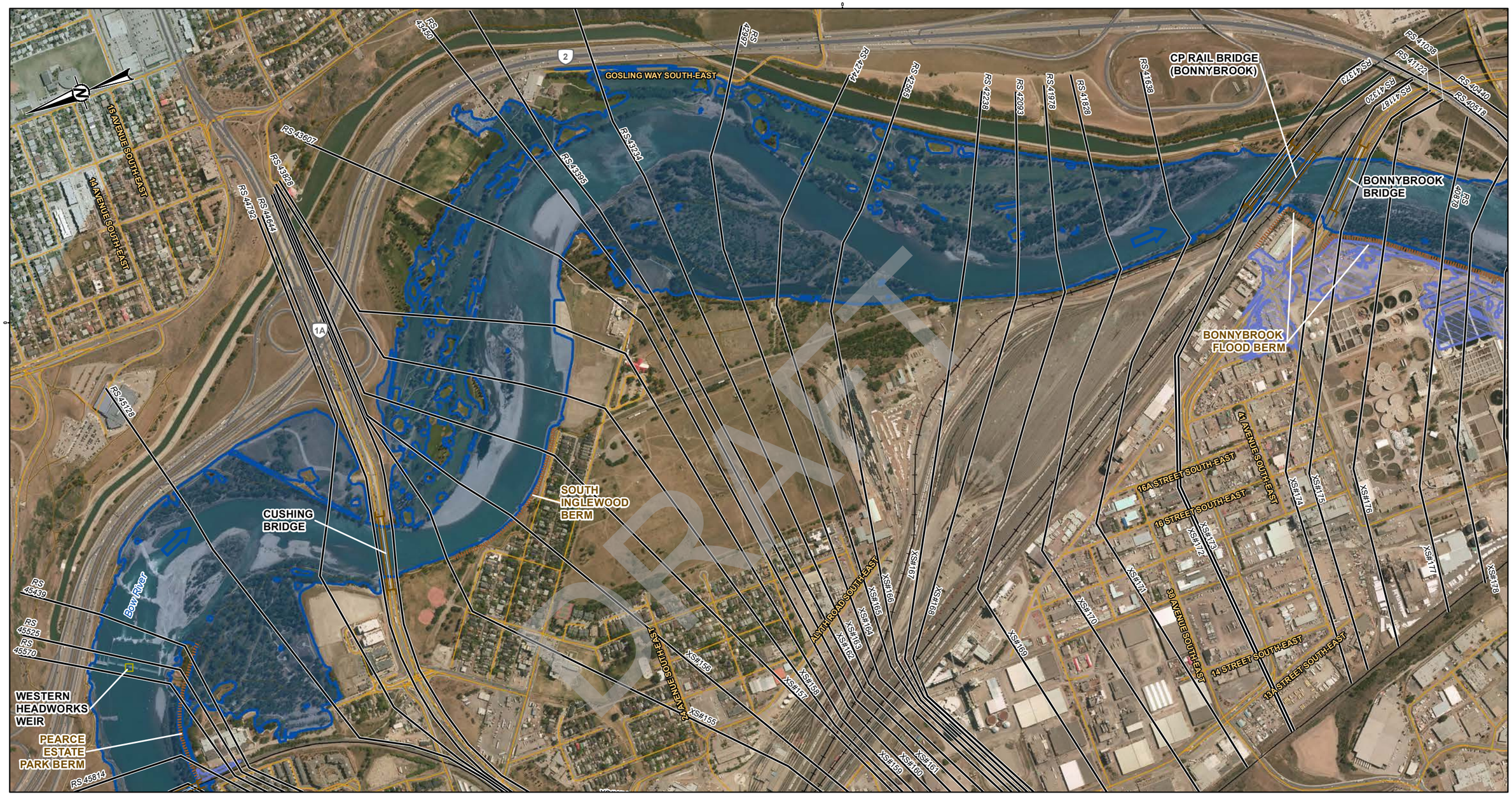
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f035v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:39 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

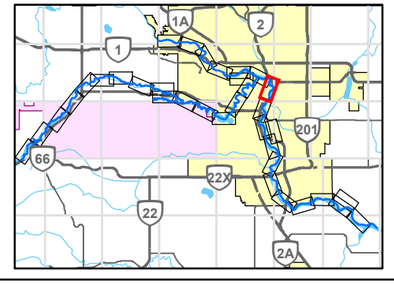
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

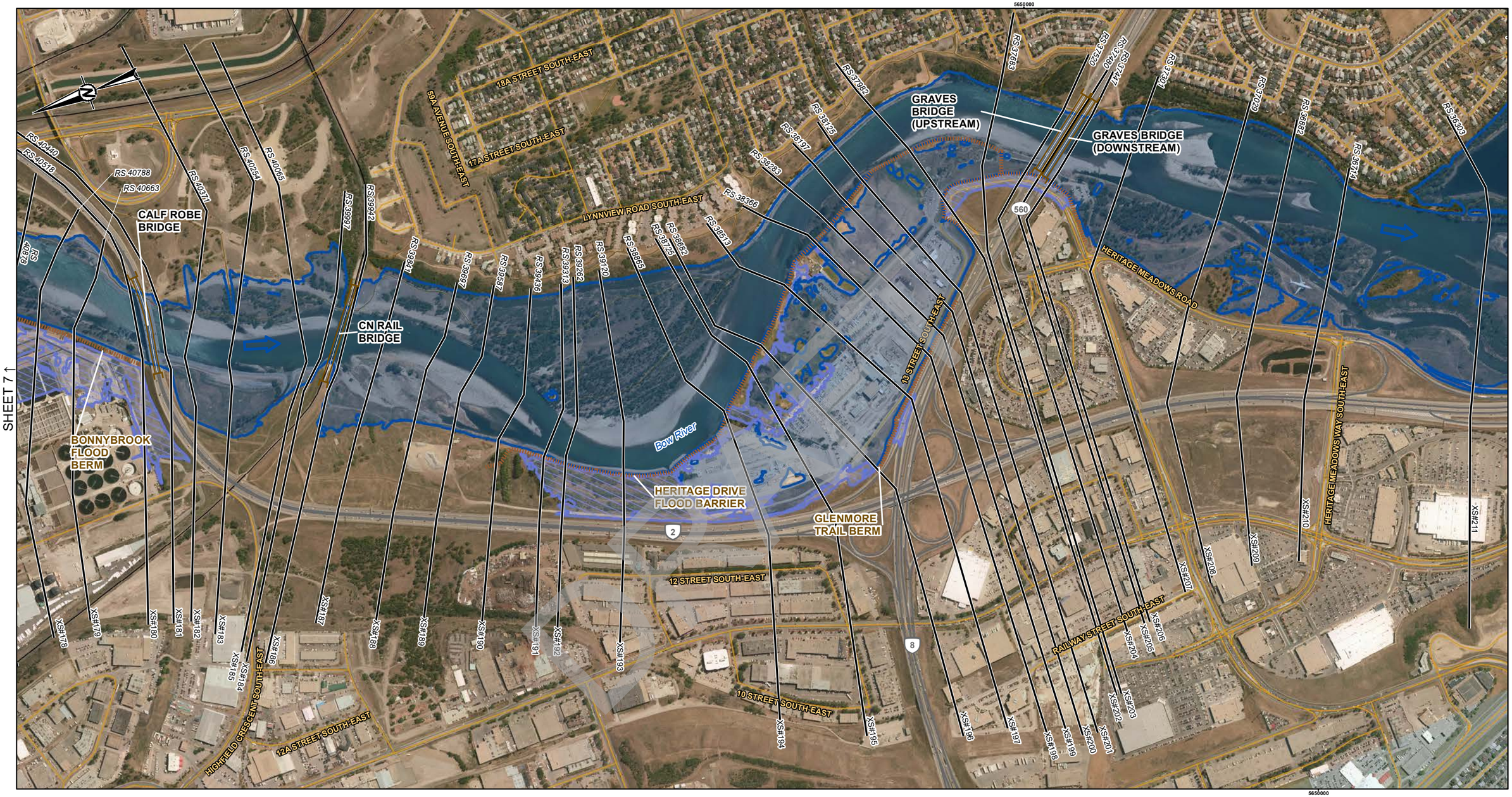
25mm

0

DRAFT

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:31:29 PM

Classification: Public



SHEET 7 ↑

SHEET 9 ↓

LEGEND

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

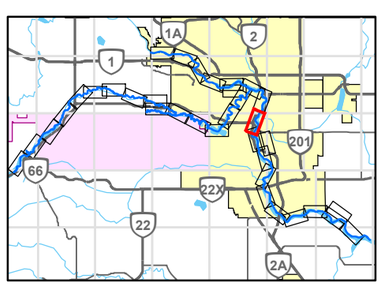
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:33:23 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RS 37639

RS 37630

RS 37480

RS 37364

RS 37029

RS 36892

RS 36714

RS 36303

RS 36008

RS 35723

RS 35602

RS 35419

RS 35275

RS 35139

RS 34889

RS 34780

RS 34758

RS 34557

RIVERBEND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

LAKEVIEW CLOSE SOUTH-EAST

18 STREET SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

ERIC HARVIE BRIDGE

QUARRY PARK BERM

QUARRY WAY SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

IVOR STRONG BRIDGE

Bow River

XS#10

XS#11

XS#12

XS#13

XS#14

XS#15

XS#16

XS#17

XS#18

XS#19

XS#20

XS#21

XS#22

XS#23

XS#24

XS#25

XS#26

XS#27

XS#28

XS#29

XS#30

XS#31

XS#32

2

1

1A

66

22X

22

2A

201

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:35:14 PM

Classification: Public

SHEET 8 ↑

SHEET 10 ↓

SHEET 9 ↓

LEGEND

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

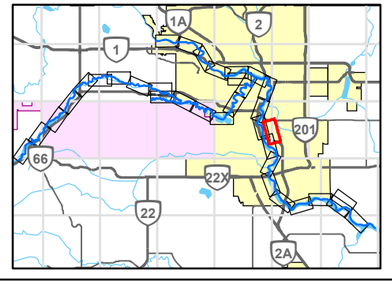
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:36:55 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

LEGEND

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

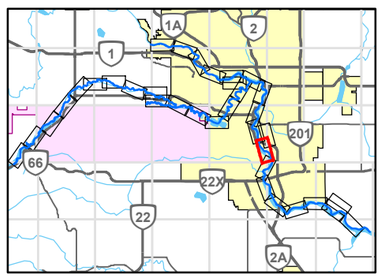
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

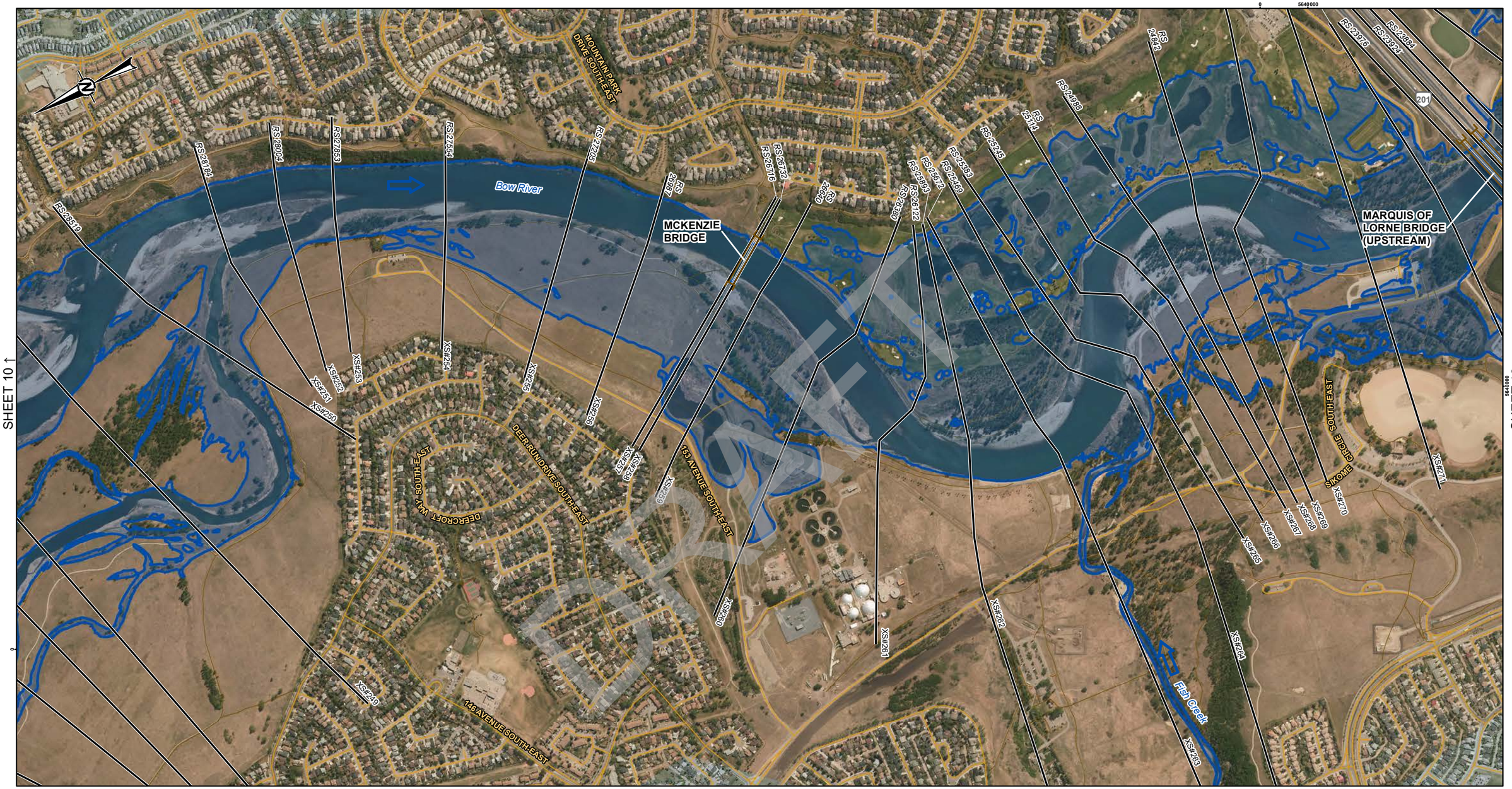
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:38:35 PM

Classification: Public



LEGEND

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

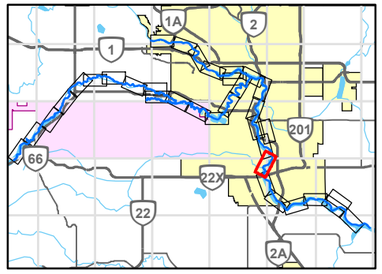
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1650 M^3/S
BOW RIVER BELOW FISH CREEK = 1730 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

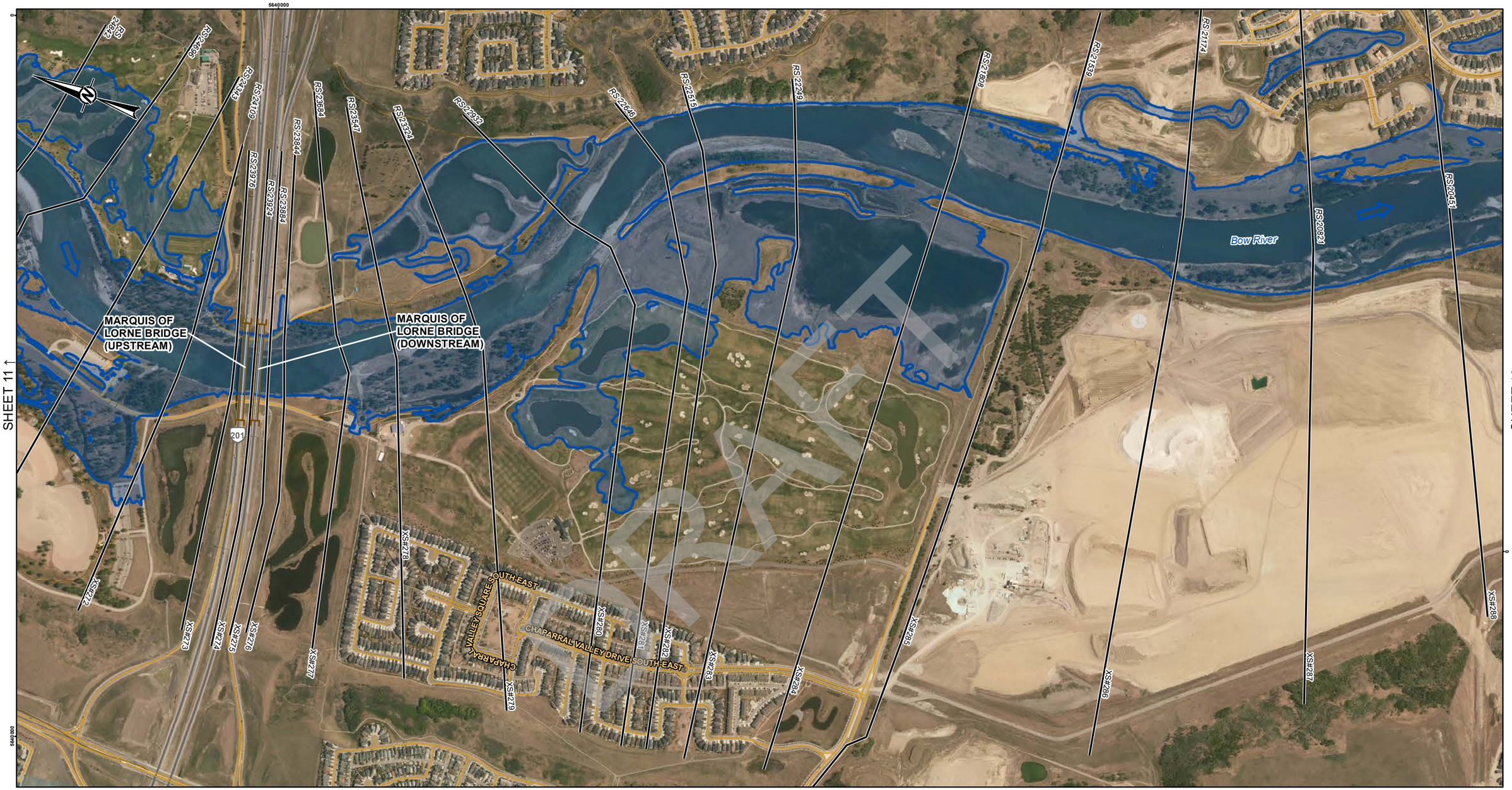
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:40:23 PM

Classification: Public



LEGEND

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

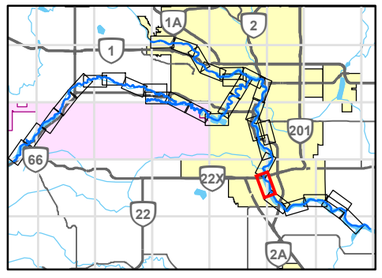
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1730 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

DRAFT

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:42:06 PM

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

LEGEND

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

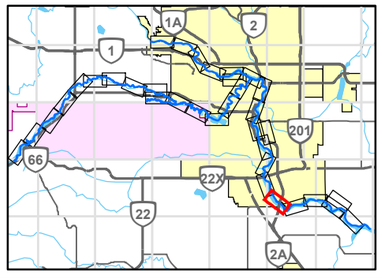
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1730 M^3/S
BOW RIVER BELOW PINE CREEK = 1760 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:43:58 PM

DRAFT

Classification: Public

SHEET 13 ↑

SHEET 15 ↓

RS 17496
RS 17276
RS 16920
RS 16436
RS 16202
RS 15672
RS 15472
RS 15202
RS 14936
RS 14680
RS 14372
RS 14047
RS 13661
RS 13385
RS 13036
RS 12653

XS#303
XS#304
XS#305
XS#306
XS#307
XS#308
XS#309
XS#310
XS#311
XS#312
XS#313
XS#314

Bow River

BOW RIVER BOTTOM TRAIL EAST
232 AVENUE EAST
230 AVENUE EAST

DRAFT

LEGEND

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

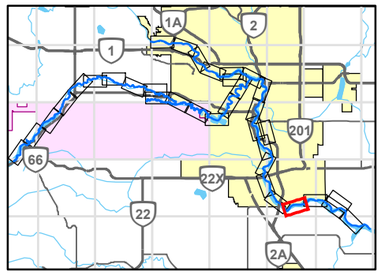
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1760 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

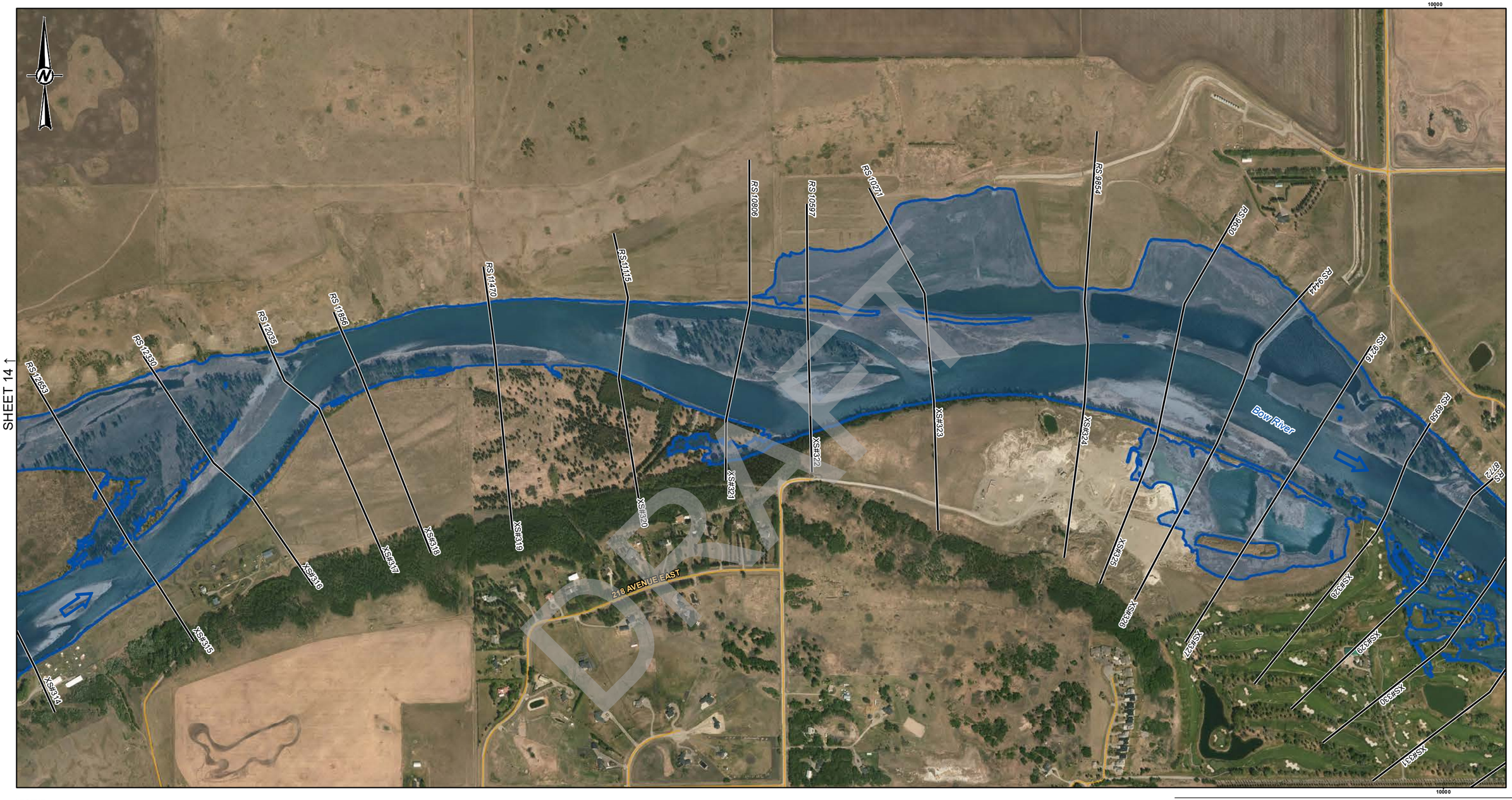
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:45:32 PM

Classification: Public



DRAFT

LEGEND

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

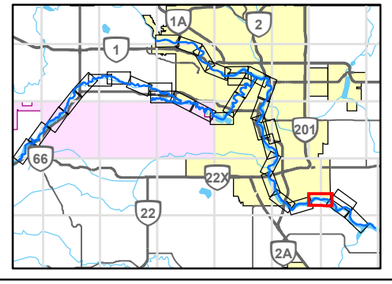
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 1760 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 1780 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:47:00 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

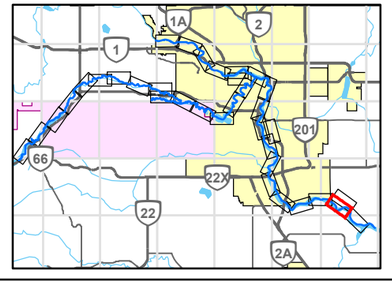
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1780 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

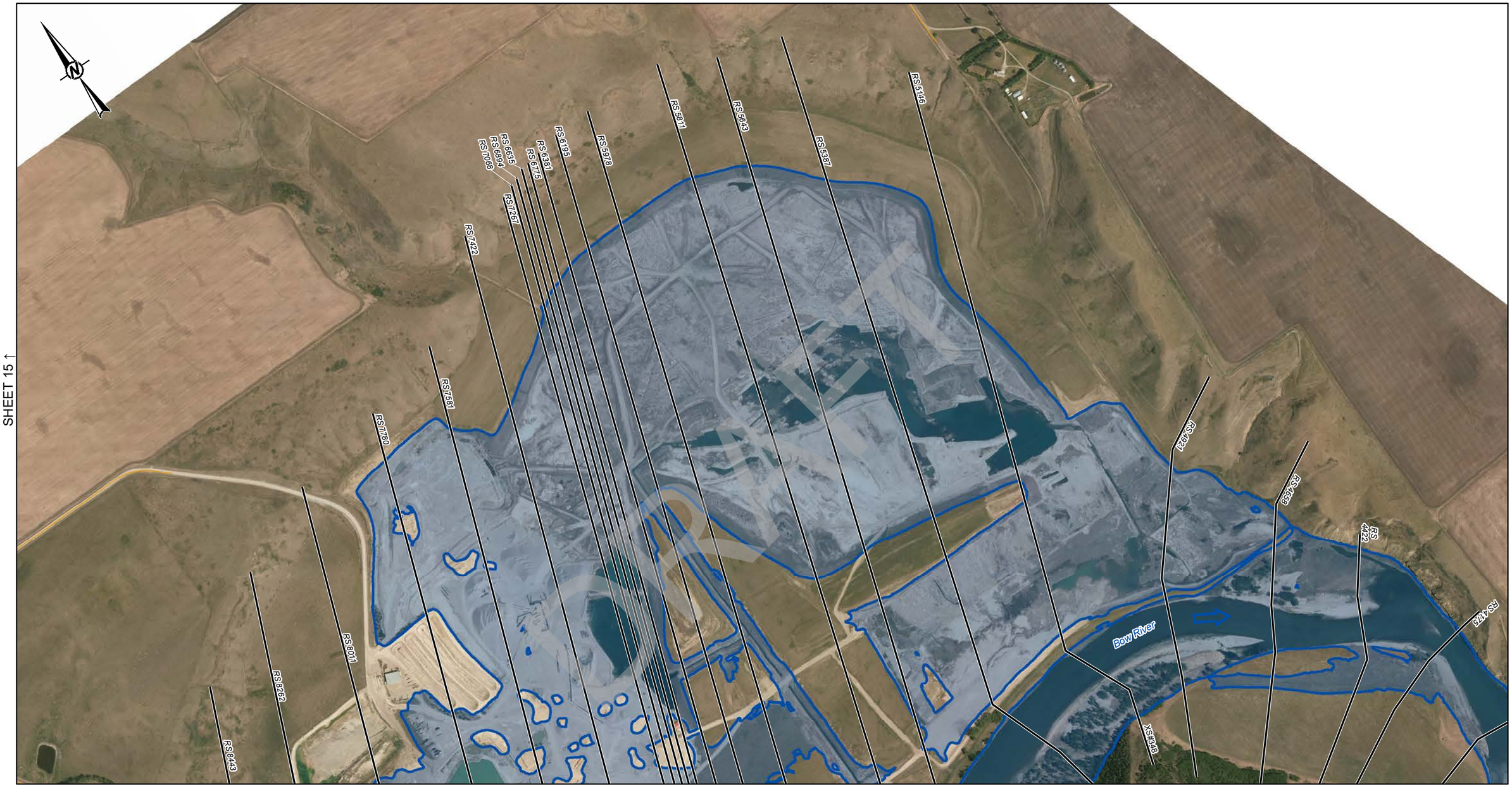
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:48:50 PM

Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓

LEGEND

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

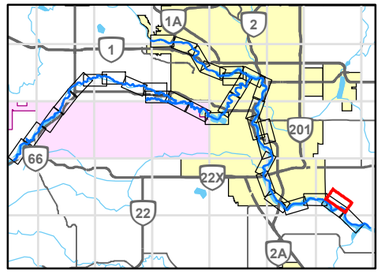
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1780 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:50:55 PM

Classification: Public

DRAFT

LEGEND

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

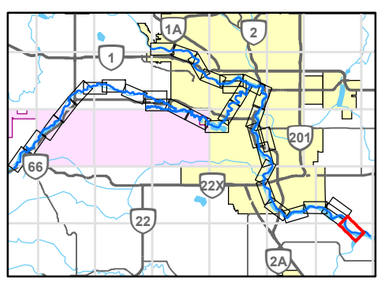
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 1780 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

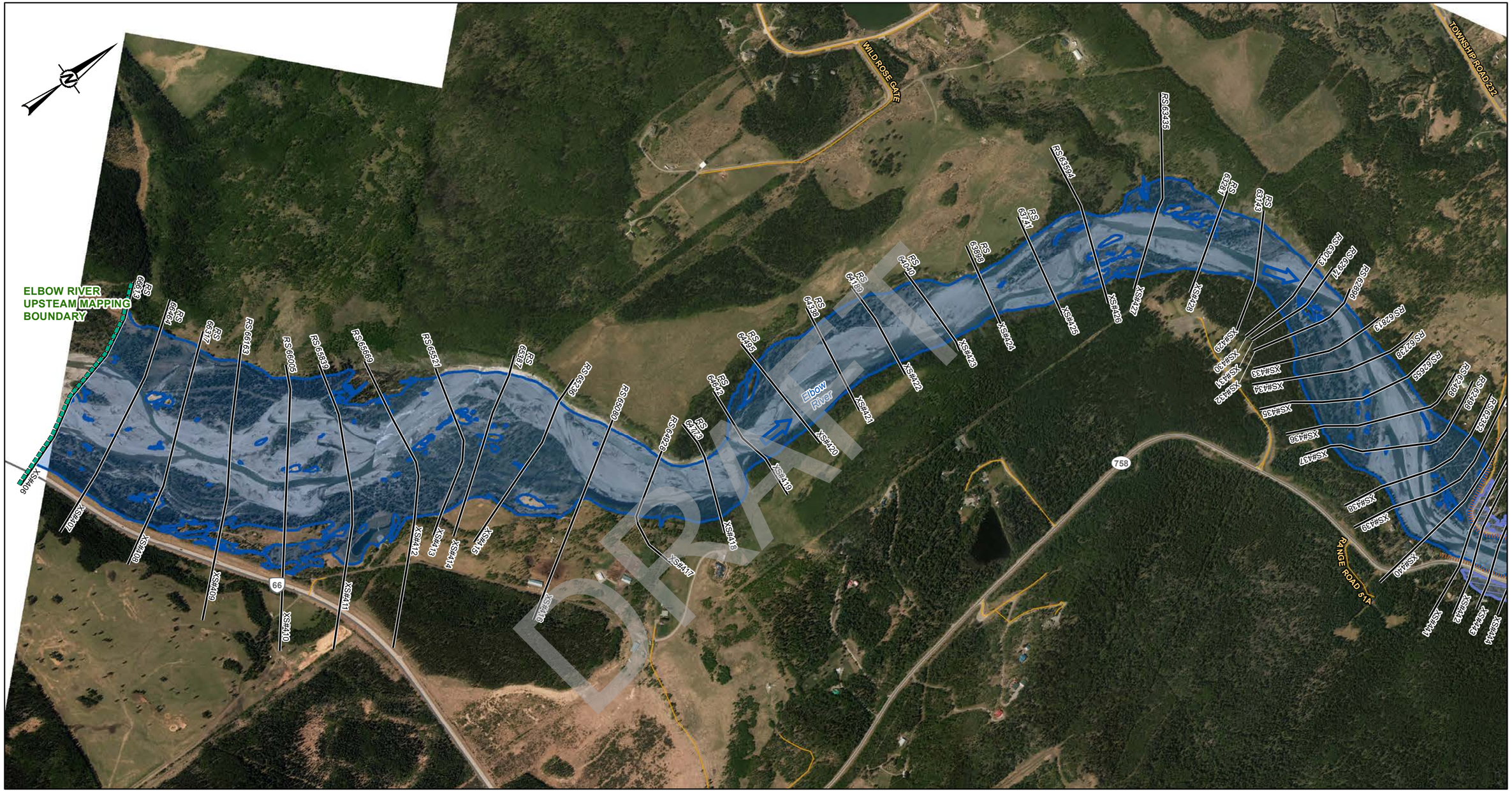
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:52:37 PM

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



LEGEND

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

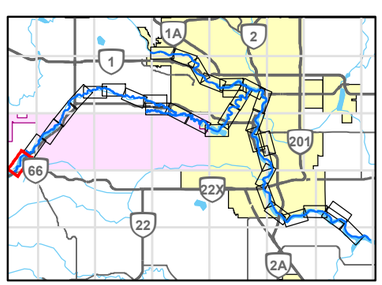
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

SHEET 20 →

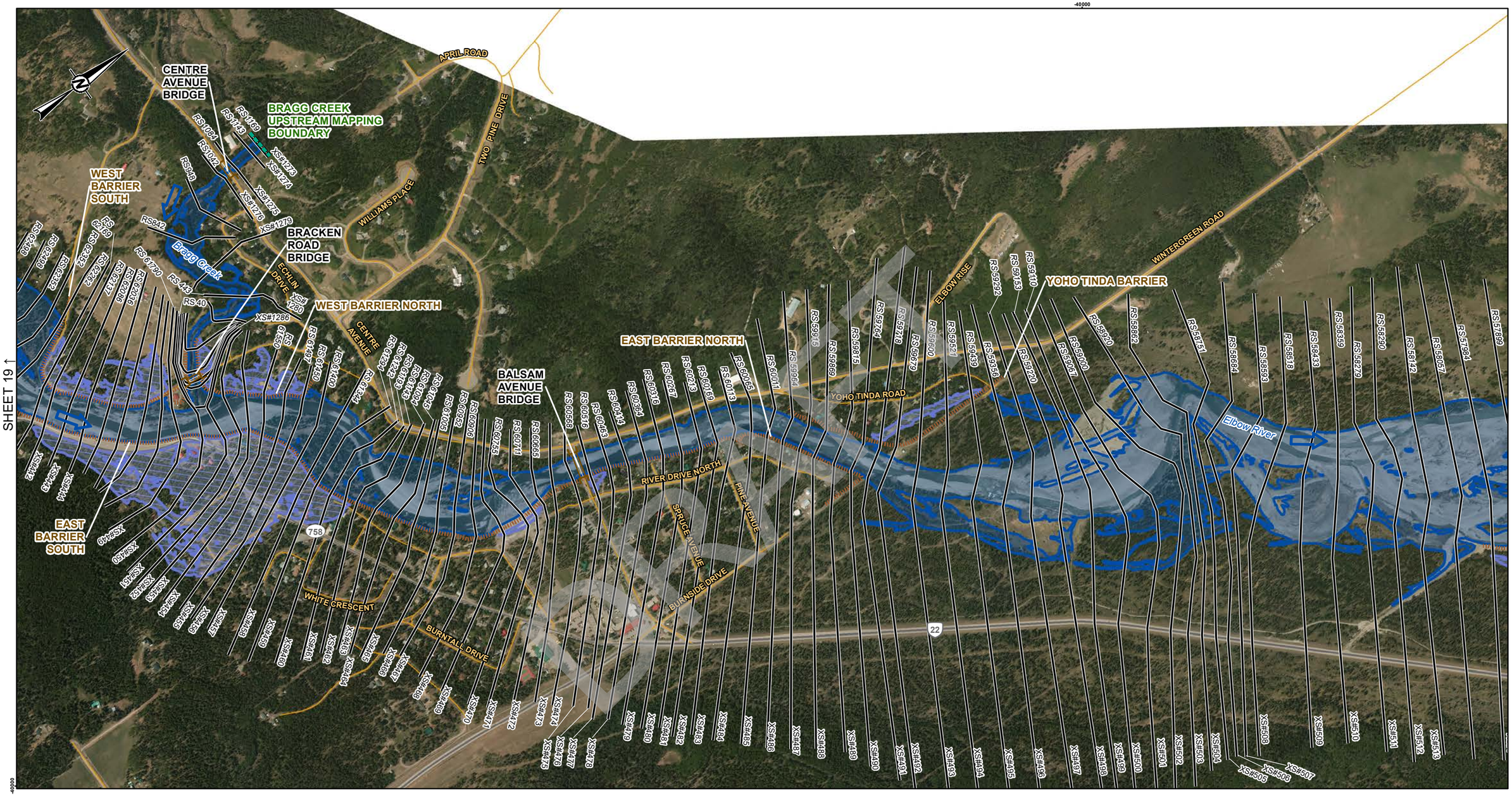
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:55:44 PM

Classification: Public



LEGEND

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

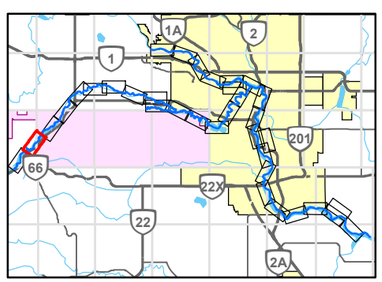
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S
BRAGG CREEK = 32 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

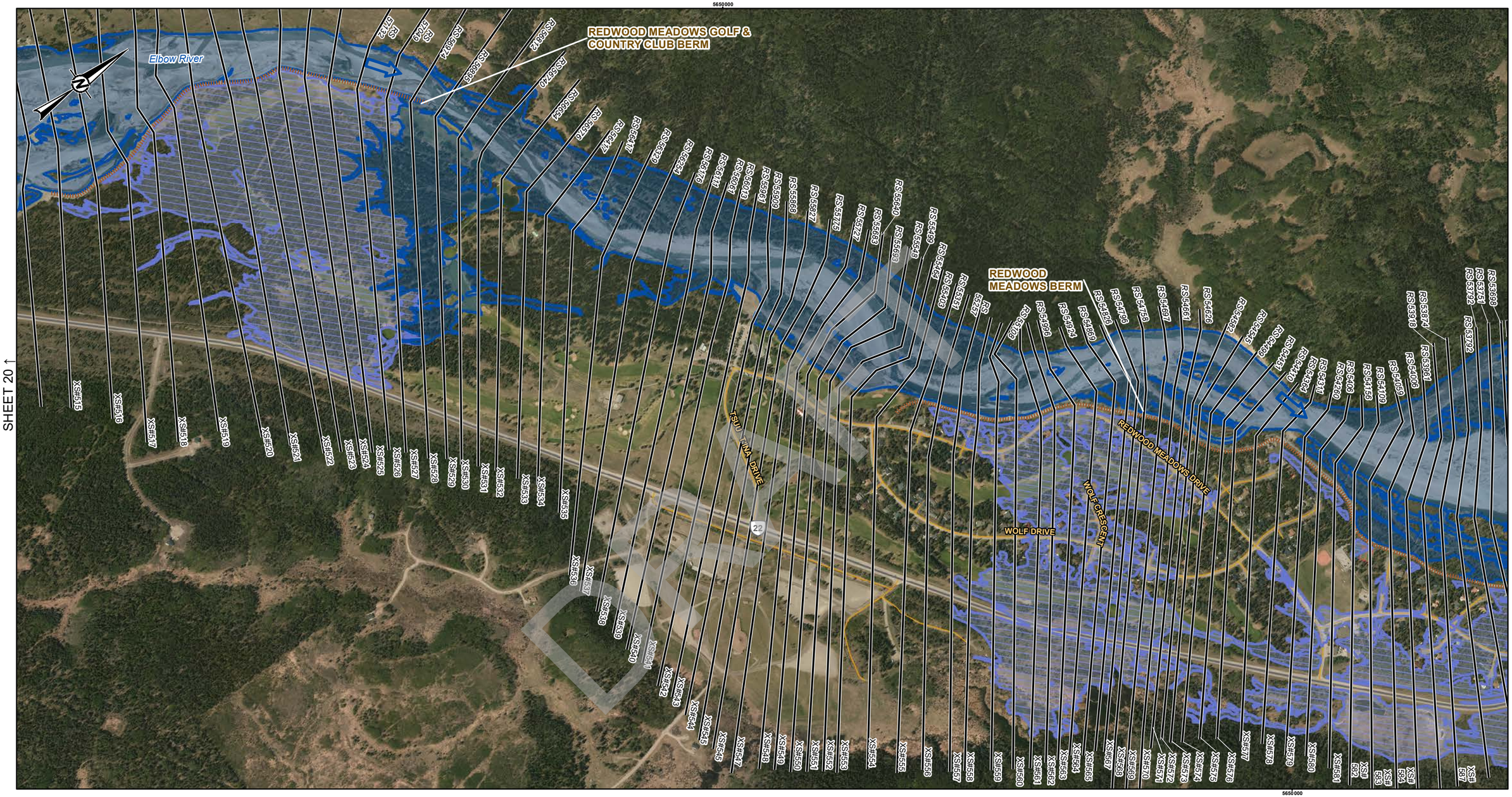
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:58:21 PM

Classification: Public



LEGEND

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

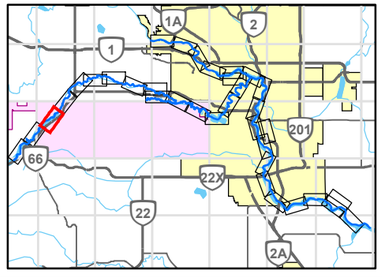
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

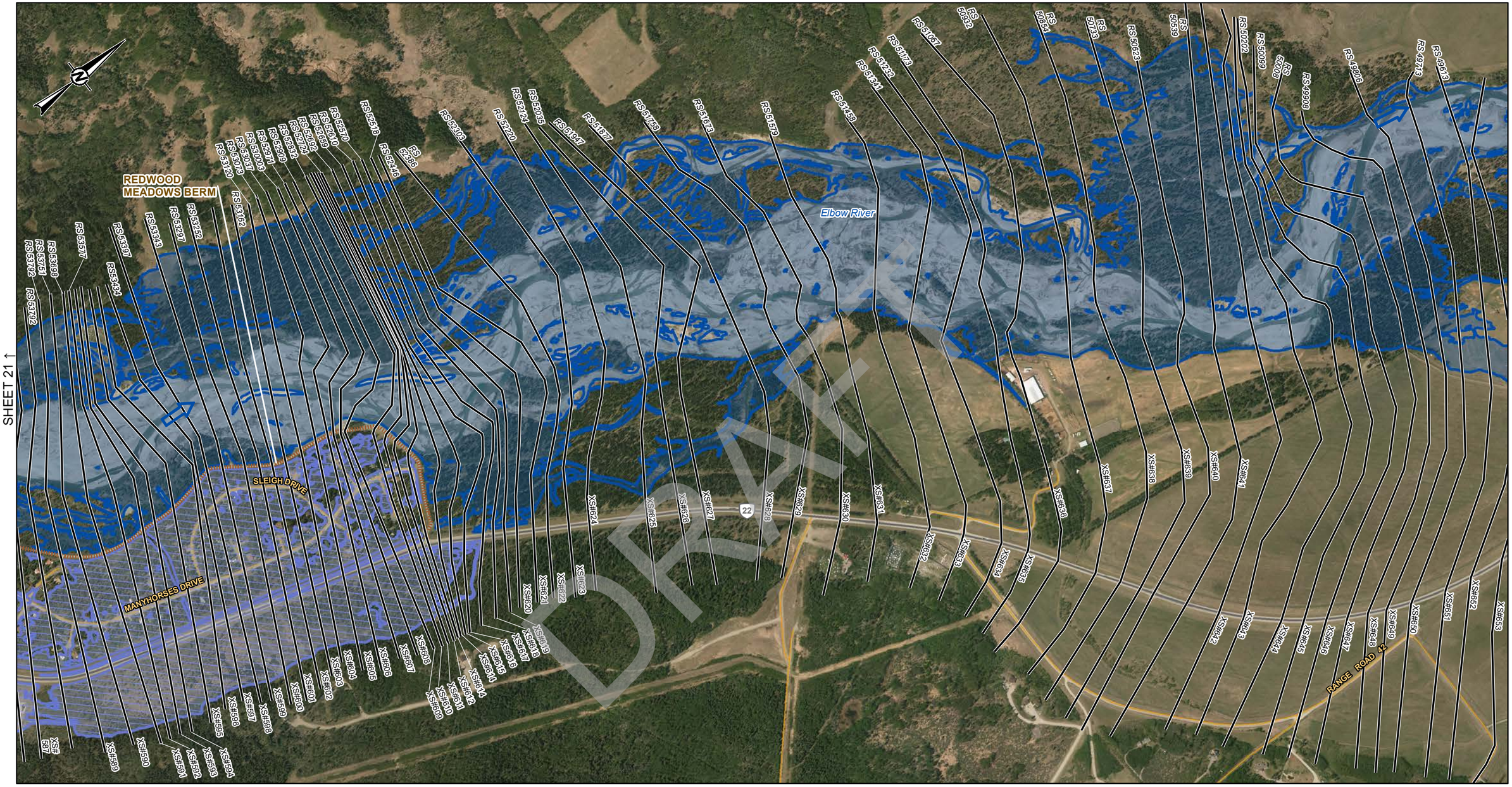
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_035-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:00:55 PM

Classification: Public



DRAFT

LEGEND

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

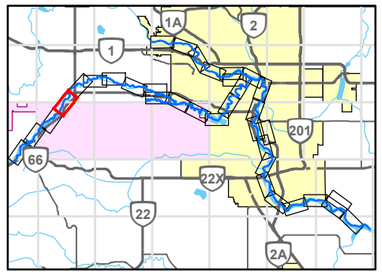
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:03:31 PM

Classification: Public

SHEET 22 ↑

SHEET 24 ↓

HIGHWAY 22 BRIDGE

Elbow River

DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S

1:10,000 METRES (0 200 400)

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

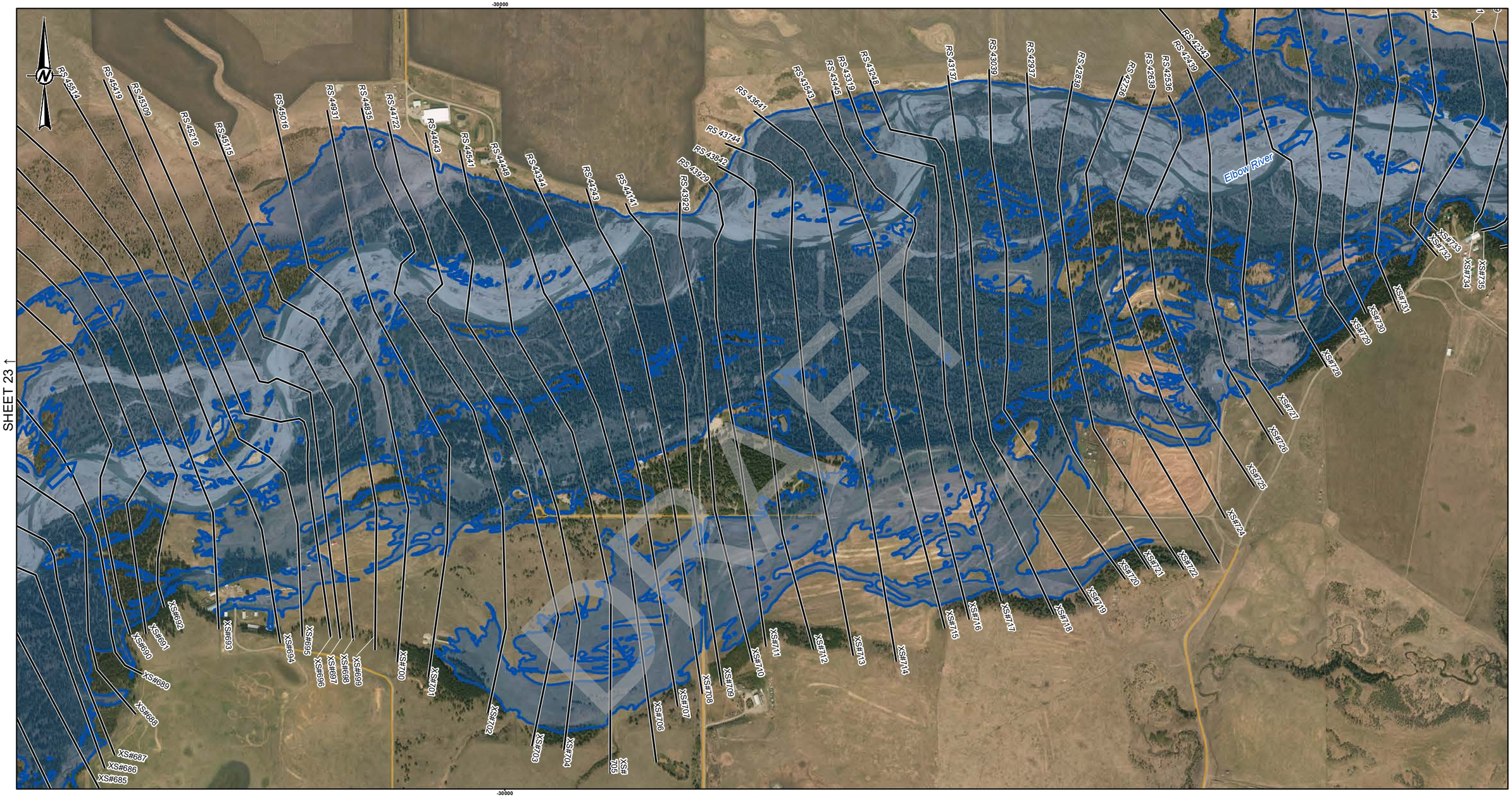
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:06:00 PM

Classification: Public



LEGEND

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

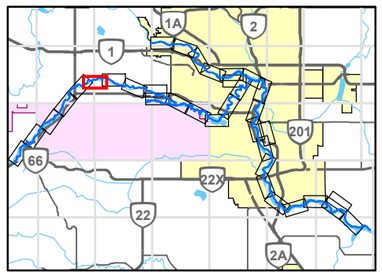
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

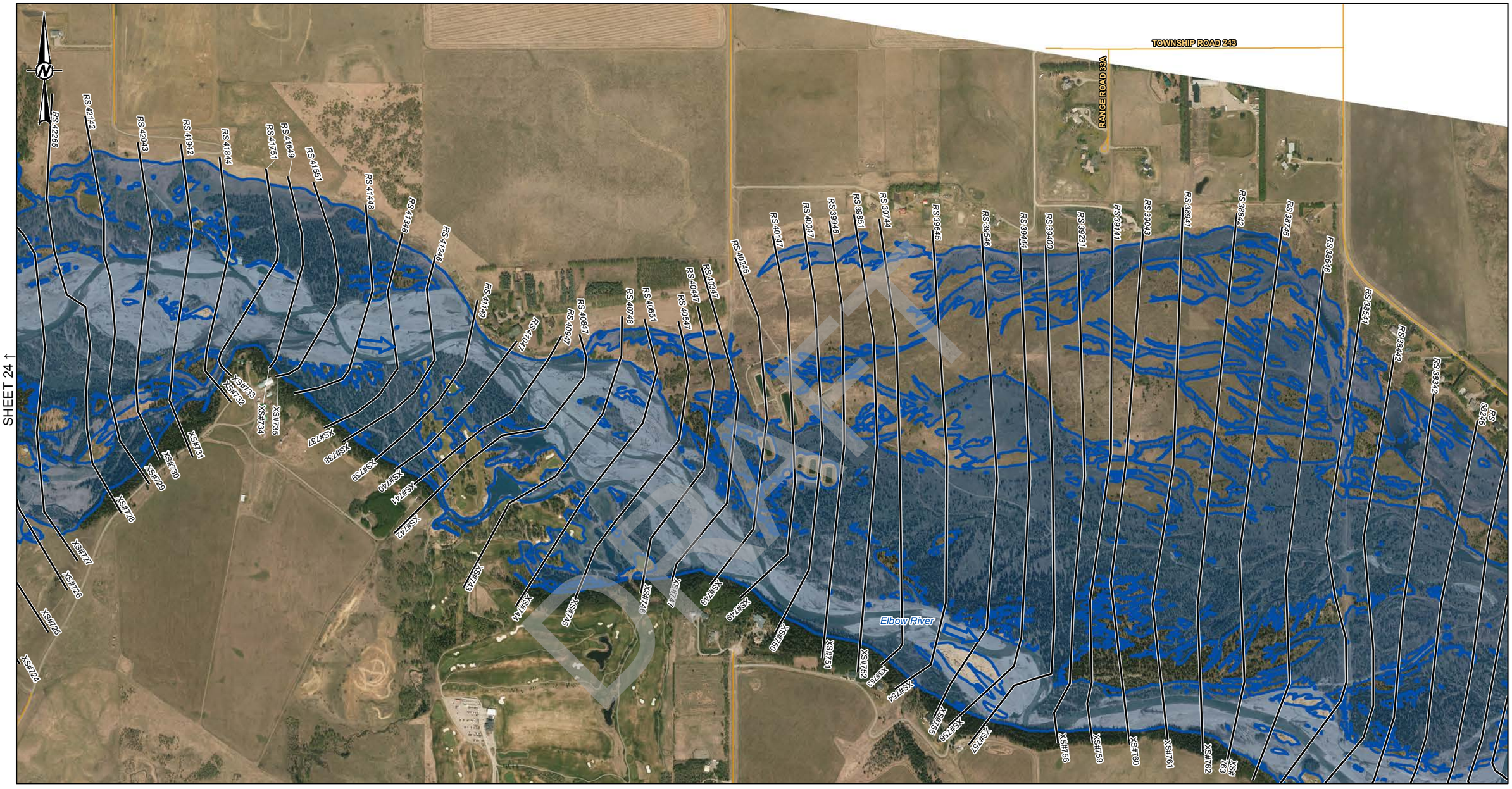
TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:08:05 PM

Classification: Public



LEGEND

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

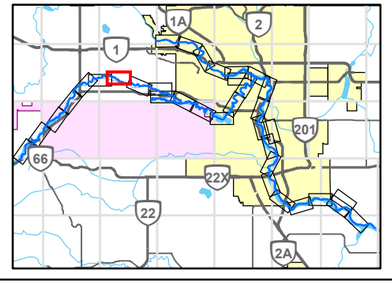
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

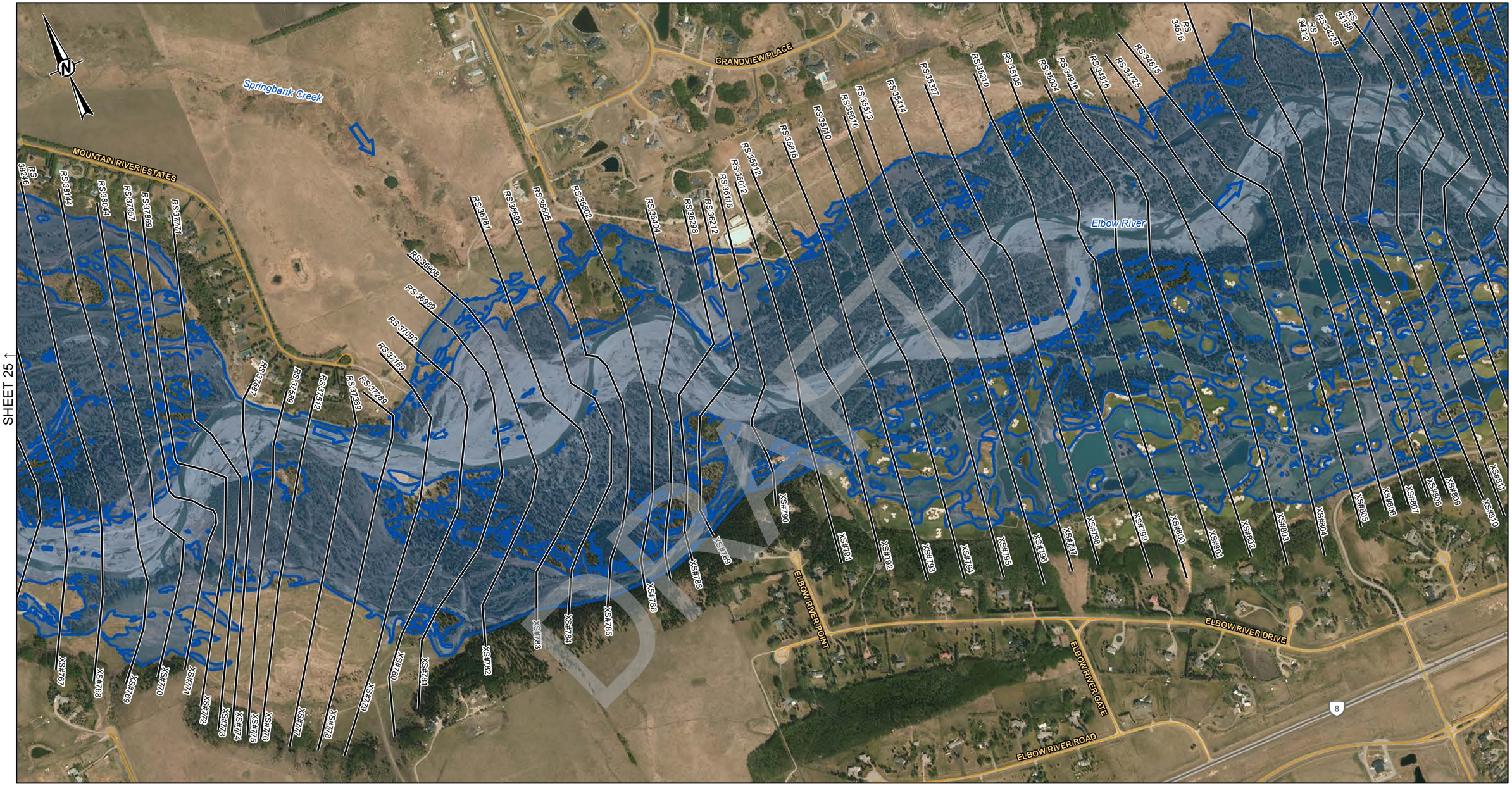
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:09:47 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

LEGEND

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

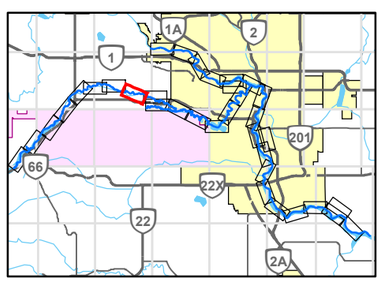
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 508 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

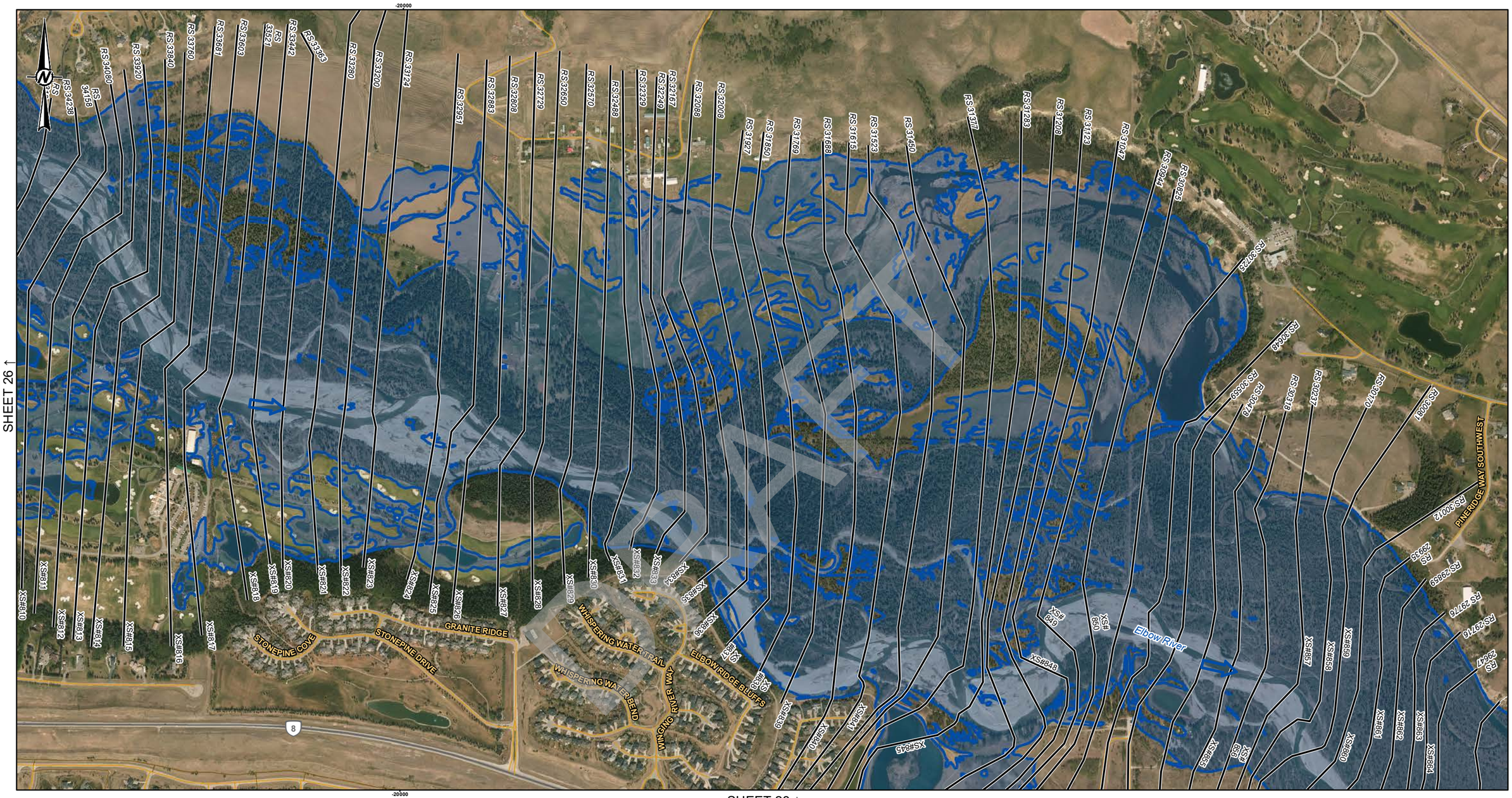
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:11:56 PM

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

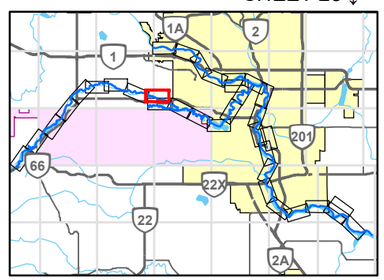
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S
LOTT CREEK = 21.3 M^3/S

SHEET 28 ↓



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

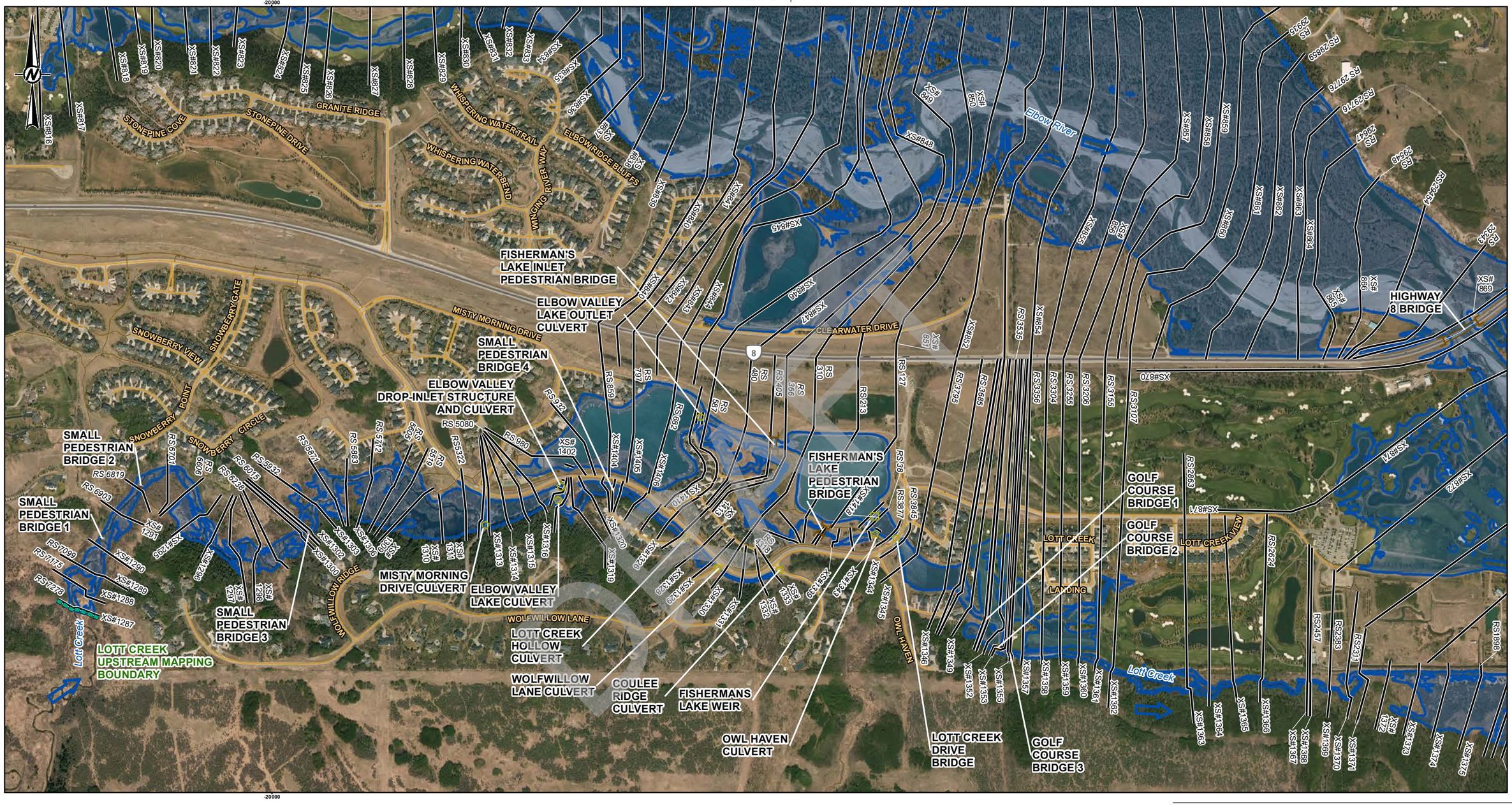
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:14:45 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

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

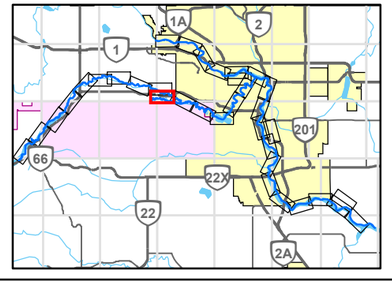
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S
LOTT CREEK = 21.3 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:17:31 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

Elbow River

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

RS 25556

RS 25697

RS 25370

RS 25223

RS 24624

RS 24527

RS 24414

RS 24343

RS 24138

RS 24049

RS 24997

RS 25076

RS 24669

RS 24432

RS 25923

RS 25619

RS 26088

RS 26235

RS 26419

RS 26630

RS 26672

RS 26810

RS 27003

RS 26984

RS 27226

RS 27385

RS 27540

RS 27712

RS 27871

RS 27993

RS 28113

RS 28169

RS 28338

RS 28497

RS 28664

RS 28810

RS 28980

RS 29143

RS 29157

RS 29393

RS 29511

RS 29679

RS 29846

RS 30012

RS 30179

RS 30346

RS 30513

RS 30680

RS 30847

RS 31014

RS 31181

RS 31348

RS 31515

RS 31682

RS 31849

RS 32016

RS 32183

RS 32350

RS 32517

RS 32684

RS 32851

RS 33018

RS 33185

RS 33352

RS 33519

RS 33686

RS 33853

RS 34020

RS 34187

RS 34354

RS 34521

RS 34688

RS 34855

RS 35022

RS 35189

RS 35356

RS 35523

RS 35690

RS 35857

RS 36024

RS 36191

RS 36358

RS 36525

RS 36692

RS 36859

RS 37026

RS 37193

RS 37360

RS 37527

RS 37694

RS 37861

RS 38028

RS 38195

RS 38362

RS 38529

RS 38696

RS 38863

RS 39030

RS 39197

RS 39364

RS 39531

RS 39698

RS 39865

RS 40032

RS 40199

RS 40366

RS 40533

RS 40700

RS 40867

RS 41034

RS 41201

RS 41368

RS 41535

RS 41702

RS 41869

RS 42036

RS 42203

RS 42370

RS 42537

RS 42704

RS 42871

RS 43038

RS 43205

RS 43372

RS 43539

RS 43706

RS 43873

RS 44040

RS 44207

RS 44374

RS 44541

RS 44708

RS 44875

RS 45042

RS 45209

RS 45376

RS 45543

RS 45710

RS 45877

RS 46044

RS 46211

RS 46378

RS 46545

RS 46712

RS 46879

RS 47046

RS 47213

RS 47380

RS 47547

RS 47714

RS 47881

RS 48048

RS 48215

RS 48382

RS 48549

RS 48716

RS 48883

RS 49050

RS 49217

RS 49384

RS 49551

RS 49718

RS 49885

RS 50052

RS 50219

RS 50386

RS 50553

RS 50720

RS 50887

RS 51054

RS 51221

RS 51388

RS 51555

RS 51722

RS 51889

RS 52056

RS 52223

RS 52390

RS 52557

RS 52724

RS 52891

RS 53058

RS 53225

RS 53392

RS 53559

RS 53726

RS 53893

RS 54060

RS 54227

RS 54394

RS 54561

RS 54728

RS 54895

RS 55062

RS 55229

RS 55396

RS 55563

RS 55730

RS 55897

RS 56064

RS 56231

RS 56398

RS 56565

RS 56732

RS 56899

RS 57066

RS 57233

RS 57400

RS 57567

RS 57734

RS 57901

RS 58068

RS 58235

RS 58402

RS 58569

RS 58736

RS 58903

RS 59070

RS 59237

RS 59404

RS 59571

RS 59738

RS 59905

RS 60072

RS 60239

RS 60406

RS 60573

RS 60740

RS 60907

RS 61074

RS 61241

RS 61408

RS 61575

RS 61742

RS 61909

RS 62076

RS 62243

RS 62410

RS 62577

RS 62744

RS 62911

RS 63078

RS 63245

RS 63412

RS 63579

RS 63746

RS 63913

RS 64080

RS 64247

RS 64414

RS 64581

RS 64748

RS 64915

RS 65

RS 1502

RS 1699

RS 1083

RS 704

XS#1379

XS#1378

XS#1377

XS#1376

XS#1375

XS#1374

XS#1373

XS#1372

XS#1371

XS#1370

XS#1369

XS#1368

XS#1367

XS#1366

XS#1365

XS#1364

XS#1363

XS#1362

XS#1361

XS#1360

XS#1359

XS#1358

XS#1357

XS#1356

XS#1355

XS#1354

XS#1353

XS#1352

XS#1351

XS#1350

XS#1349

XS#1348

XS#1347

XS#1346

XS#1345

XS#1344

XS#1343

XS#1342

XS#1341

XS#1340

XS#1339

XS#1338

XS#1337

XS#1336

XS#1335

XS#1334

XS#1333

XS#1332

XS#1331

XS#1330

XS#1329

XS#1328

XS#1327

XS#1326

XS#1325

XS#1324

XS#1323

XS#1322

XS#1321

XS#1320

XS#1319

XS#1318

XS#1317

XS#1316

XS#1315

XS#1314

XS#1313

XS#1312

XS#1311

XS#1310

XS#1309

XS#1308

XS#1307

XS#1306

XS#1305

XS#1304

XS#1303

XS#1302

XS#1301

XS#1300

XS#1299

XS#1298

XS#1297

XS#1296

XS#1295

XS#1294

XS#1293

XS#1292

XS#1291

XS#1290

XS#1289

XS#1288

XS#1287

XS#1286

XS#1285

XS#1284

XS#1283

XS#1282

XS#1281

XS#1280

XS#1279

XS#1278

XS#1277

XS#1276

XS#1275

XS#1274

XS#1273

XS#1272

XS#1271

XS#1270

XS#1269

XS#1268

XS#1267

XS#1266

XS#1265

XS#1264

XS#1263

XS#1262

XS#1261

XS#1260

XS#1259

XS#1258

XS#1257

XS#1256

XS#1255

XS#1254

XS#1253

XS#1252

XS#1251

XS#1250

XS#1249

XS#1248

XS#1247

XS#1246

XS#1245

XS#1244

XS#1243

XS#1242

XS#1241

XS#1240

XS#1239

XS#1238

XS#1237

XS#1236

XS#1235

XS#1234

XS#1233

XS#1232

XS#1231

XS#1230

XS#1229

XS#1228

XS#1227

XS#1226

XS#1225

XS#1224

XS#1223

XS#1222

XS#1221

XS#1220

XS#1219

XS#1218

XS#1217

XS#1216

XS#1215

XS#1214

XS#1213

XS#1212

XS#1211

XS#1210

XS#1209

XS#1208

XS#1207

XS#1206

XS#1205

XS#1204

XS#1203

XS#1202

XS#1201

XS#1200

XS#1199

XS#1198

XS#1197

XS#1196

XS#1195

XS#1194

XS#1193

XS#1192

XS#1191

XS#1190

XS#1189

XS#1188

XS#1187

XS#1186

XS#1185

XS#1184

XS#1183

XS#1182

XS#1181

XS#1180

XS#1179

XS#1178

XS#1177

XS#1176

XS#1175

XS#1174

XS#1173

XS#1172

XS#1171

XS#1170

XS#1169

XS#1168

XS#1167

XS#1166

XS#1165

XS#1164

XS#1163

XS#1162

XS#1161

XS#1160

XS#1159

XS#1158

XS#1157

XS#1156

XS#1155

XS#1154

XS#1153

XS#1152

XS#1151

XS#1150

XS#1149

XS#1148

XS#1147

XS#1146

XS#1145

XS#1144

XS#1143

XS#1142

XS#1141

XS#1140

XS#1139

XS#1138

XS#1137

XS#1136

XS#1135

XS#1134

XS#1133

XS#1132

XS#1131

XS#1130

XS#1129

XS#1128

XS#1127

XS#1126

XS#1125

XS#1124

XS#1123

XS#1122

XS#1121

XS#1120

XS#1119

XS#1118

XS#1117

XS#1116

XS#1115

XS#1114

XS#1113

XS#1112

XS#1111

XS#1110

XS#1109

XS#1108

XS#1107

XS#1106

XS#1105

XS#1104

XS#1103

XS#1102

XS#1101

XS#1100

XS#1099

XS#1098

XS#1097

XS#1096

XS#1095

XS#1094

XS#1093

XS#1092

XS#1091

XS#1090

XS#1089

XS#1088

XS#1087

XS#1086

XS#1085

XS#1084

XS#1083

XS#1082

XS#1081

XS#1080

XS#1079

XS#1078

XS#1077

XS#1076

XS#1075

XS#1074

XS#1073

XS#1072

XS#1071

XS#1070

XS#1069

XS#1068

XS#1067

XS#1066

XS#1065

XS#1064

XS#1063

XS#1062

XS#1061

XS#1060

XS#1059

XS#1058

XS#1057

XS#1056

XS#1055

XS#1054

XS#1053

XS#1052

XS#1051

XS#1050

XS#1049

XS#1048

XS#1047

XS#1046

XS#1045

XS#1044

XS#1043

XS#1042

XS#1041

XS#1040

XS#1039

XS#1038

XS#1037

XS#1036

XS#1035

XS#1034

XS#1033

XS#1032

XS#1031

XS#1030

XS#1029

XS#1028

XS#1027

XS#1026

XS#1025

XS#1024

XS#1023

XS#1022

XS#1021

XS#1020

XS#1019

XS#1018

XS#1017

XS#1016

XS#1015

XS#1014

XS#1013

XS#1012

XS#1011

XS#1010

XS#1009

XS#1008

XS#1007

XS#1006

XS#1005

XS#1004

XS#1003

XS#1002

XS#1001

XS#1000

XS#999

XS#998

XS#997

XS#996

XS#995

XS#994

XS#993

XS#992

XS#991

XS#990

XS#989

XS#988

XS#987

XS#986

XS#985

XS#984

XS#983

XS#982

XS#981

XS#980

XS#979

XS#978

XS#977

XS#976

XS#975

XS#974

XS#973

XS#972

XS#971

XS#970

XS#969

XS#968

XS#967

XS#966

XS#965

XS#964

XS#963

XS#962

XS#961

XS#960

XS#959

XS#958

XS#957

XS#956

XS#955

XS#954

XS#953

XS#952

XS#951

XS#950

XS#949

XS#948

XS#947

XS#946

XS#945

XS#944

XS#943

XS#942

XS#941

XS#940

XS#939

XS#938

XS#937

XS#936

XS#935

XS#934

XS#933

XS#932

XS#931

XS#930

XS#929

XS#928

XS#927

XS#926

XS#925

XS#924

XS#923

XS#922

XS#921

XS#920

XS#919

XS#918

XS#917

XS#916

XS#915

XS#914

XS#913

XS#912

XS#911

XS#910

XS#909

XS#908

XS#907

XS#906

XS#905

XS#904

XS#903

XS#902

XS#901

XS#900

XS#899

XS#898

XS#897

XS#896

XS#895

XS#894

XS#893

XS#892

XS#891

XS#890

XS#889

XS#888

XS#887

XS#886

XS#885

XS#884

XS#883

XS#882

XS#881

XS#880

XS#879

XS#878

XS#877

XS#876

XS#875

XS#874

XS#873

XS#872

XS#871

XS#870

XS#869

XS#868

XS#867

XS#866

XS#865

XS#864

XS#863

XS#862

XS#861

XS#860

XS#859

XS#858

XS#857

XS#856

XS#855

XS#854

XS#853

XS#852

XS#851

XS#850

XS#849

XS#848

XS#847

XS#846

XS#845

XS#844

XS#843

XS#842

XS#841

XS#840

XS#839

XS#838

XS#837

XS#836

XS#835

XS#834

XS#833

XS#832

XS#831

XS#830

XS#829

XS#828

XS#827

XS#826

XS#825

XS#824

XS#823

XS#822

XS#821

XS#820

XS#819

XS#818

XS#817

XS#816

XS#815

XS#814

XS#813

XS#812

XS#811

XS#810

XS#809

XS#808

XS#807

XS#806

XS#805

XS#804

XS#803

XS#802

XS#801

XS#800

XS#799

XS#798

XS#797

XS#796

XS#795

XS#794

XS#793

XS#792

XS#791

XS#790

XS#789

XS#788

XS#787

XS#786

XS#785

XS#784

XS#783

XS#782

XS#781

XS#780

XS#779

XS#778

XS#777

XS#776

XS#775

XS#774

XS#773

XS#772

XS#771

XS#770

XS#769

XS#768

XS#767

XS#766

XS#765

XS#764

XS#763

XS#762

XS#761

XS#760

XS#759

XS#758

XS#757

XS#756

XS#755

XS#754

XS#753

XS#752

XS#751

XS#750

XS#749

XS#748

XS#747

XS#746

XS#745

XS#744

XS#743

XS#742

XS#741

XS#740

XS#739

XS#738

XS#737

XS#736

XS#735

XS#734

XS#733

XS#732

XS#731

XS#730

XS#729

XS#728

XS#727

XS#726

XS#725

XS#724

XS#723

XS#722

XS#721

XS#720

XS#719

XS#718

XS#717

XS#716

XS#715

XS#714

XS#713

XS#712

XS#711

XS#710

XS#709

XS#708

XS#707

XS#706

XS#705

XS#704

XS#703

XS#702

XS#701

XS#700

XS#699

XS#698

XS#697

XS#696

XS#695

XS#694

XS#693

XS#692

XS#691

XS#690

XS#689

XS#688

XS#687

XS#686

XS#685

XS#684

XS#683

XS#682

XS#681

XS#680

XS#679

XS#678

XS#677

XS#676

XS#675

XS#674

XS#673

XS#672

XS#671

XS#670

XS#669

XS#668

XS#667

XS#666

XS#665

XS#664

XS#663

XS#662

XS#661

XS#660

XS#659

XS#658

XS#657

XS#656

XS#655

XS#654

XS#653

XS#652

XS#651

XS#650

XS#649

XS#648

XS#647

XS#646

XS#645

XS#644

XS#643

XS#642

XS#641

XS#640

XS#639

XS#638

XS#637

XS#636

XS#635

XS#634

XS#633

XS#632

XS#631

XS#630

XS#629

XS#628

XS#627

XS#626

XS#625

XS#624

XS#623

XS#622

XS#621

XS#620

XS#619

XS#618

XS#617

XS#616

XS#615

XS#614

XS#613

XS#612

XS#611

XS#610

XS#609

XS#608

XS#607

XS#606

XS#605

XS#604

XS#603

XS#602

XS#601

XS#600

XS#599

XS#598

XS#597

XS#596

XS#595

XS#594

XS#593

XS#592

XS#591

XS#590

XS#589

XS#588

XS#587

XS#586

XS#585

XS#584

XS#583

XS#582

XS#581

XS#580

XS#579

XS#578

XS#577

XS#576

XS#575

XS#574

XS#573

XS#572

XS#571

XS#570

XS#569

XS#568

XS#567

XS#566

XS#565

XS#564

XS#563

XS#562

XS#561

XS#560

XS#559

XS#558

XS#557

XS#556

XS#555

XS#554

XS#553

XS#552

XS#551

XS#550

XS#549

XS#548

XS#547

XS#546

XS#545

XS#544

XS#543

XS#542

XS#541

XS#540

XS#539

XS#538

XS#537

XS#536

XS#535

XS#534

XS#533

XS#532

XS#531

XS#530

XS#529

XS#528

XS#527

XS#526

XS#525

XS#524

XS#523

XS#522

XS#521

XS#520

XS#519

XS#518

XS#517

XS#516

XS#515

XS#514

XS#513

XS#512

XS#511

XS#510

XS#509

XS#508

XS#507

XS#506

XS#505

XS#504

XS#503

XS#502

XS#501

XS#500

XS#499

XS#498

XS#497

XS#496

XS#495

XS#494

XS#493

XS#492

XS#491

XS#490

XS#489

XS#488

XS#487

XS#486

XS#485

XS#484

XS#483

XS#482

XS#481

XS#480

XS#479

XS#478

XS#477

XS#476

XS#475

XS#474

XS#473

XS#472

XS#471

XS#470

XS#469

XS#468

XS#467

XS#466

XS#465

XS#464

XS#463

XS#462

XS#461

XS#460

XS#459

XS#458

XS#457

XS#456

XS#455

XS#454

XS#453

XS#452

XS#451

XS#450

XS#449

XS#448

XS#447

XS#446

XS#445

XS#444

XS#443

XS#442

XS#441

XS#440

XS#439

XS#438

XS#437

XS#436

XS#435

XS#434

XS#433

XS#432

XS#431

XS#430

XS#429

XS#428

XS#427

XS#426

XS#425

XS#424

XS#423

XS#422

XS#421

XS#420

XS#419

XS#418

XS#417

XS#416

XS#415

XS#414

XS#413

XS#412

XS#411

XS#410

XS#409

XS#408

XS#407

XS#406

XS#405

XS#404

XS#403

XS#402

XS#401

XS#400

XS#399

XS#398

XS#397

XS#396

XS#395

XS#394

XS#393

XS#392

XS#391

XS#390

XS#389

XS#388

XS#387

XS#386

XS#385

XS#384

XS#383

XS#382

XS#381

XS#380

XS#379

XS#378

XS#377

XS#376

XS#375

XS#374

XS#373

XS#372

XS#371

XS#370

XS#369

XS#368

XS#367

XS#366

XS#365

XS#364

XS#363

XS#362

XS#361

XS#360

XS#359

XS#358

XS#357

XS#356

XS#355

XS#354

XS#353

XS#352

XS#351

XS#350

XS#349

XS#348

XS#347

XS#346

XS#345

XS#344

XS#343

XS#342

XS#341

XS#340

XS#339

XS#338

XS#337

XS#336

XS#335

XS#334

XS#333

XS#332

XS#331

XS#330

XS#329

XS#328

XS#327

XS#326

XS#325

XS#324

XS#323

XS#322

XS#321

XS#320

XS#319

XS#318

XS#317

XS#316

XS#315

XS#314

XS#313

XS#312

XS#311

XS#310

XS#309

XS#308

XS#307

XS#306

XS#305

XS#304

XS#303

XS#302

XS#301

XS#300

XS#299

XS#298

XS#297

XS#296

XS#295

XS#294

XS#293

XS#292

XS#291

XS#290

XS#289

XS#288

XS#287

XS#286

XS#285

XS#284

XS#283

XS#282

XS#281

XS#280

XS#279

XS#278

XS#277

XS#276

XS#275

XS#274

XS#273

XS#272

XS#271

XS#270

XS#269

XS#268

XS#267

XS#266

XS#265

XS#264

XS#263

XS#262

XS#261

XS#260

XS#259

XS#258

XS#257

XS#256

XS#255

XS#254

XS#253

XS#252

XS#251

XS#250

XS#249

XS#248

XS#247

XS#246

XS#245

XS#244

XS#243

XS#242

XS#241

XS#240

XS#239

XS#238

XS#237

XS#236

XS#235

XS#234

XS#233

XS#232

XS#231

XS#230

XS#229

XS#228

XS#227

XS#226

XS#225

XS#224

XS#223

XS#222

XS#221

XS#220

XS#219

XS#218

XS#217

XS#216

XS#215

XS#214

XS#213

XS#212

XS#211

XS#210

XS#209

XS#208

XS#207

XS#206

XS#205

XS#204

XS#203

XS#202

XS#201

XS#200

XS#199

XS#198

XS#197

XS#196

XS#195

XS#194

XS#193

XS#192

XS#191

XS#190

XS#189

XS#188

XS#187

XS#186

XS#185

XS#184

XS#183

XS#182

XS#181

XS#180

XS#179

XS#178

XS#177

XS#176

XS#175

XS#174

XS#173

XS#172

XS#171

XS#170

XS#169

XS#168

XS#167

XS#166

XS#165

XS#164

XS#163

XS#162

XS#161

XS#160

XS#159

XS#158

XS#157

XS#156

XS#155

XS#154

XS#153

XS#152

XS#151

XS#150

XS#149

XS#148

XS#147

XS#146

XS#145

XS#144

XS#143

XS#142

XS#141

XS#140

XS#139

XS#138

XS#137

XS#136

XS#135

XS#134

XS#133

XS#132

XS#131

XS#130

XS#129

XS#128

XS#127

XS#126

XS#125

XS#124

XS#123

XS#122

XS#121

XS#120

XS#119

XS#118

XS#117

XS#116

XS#115

XS#114

XS#113

XS#112

XS#111

XS#110

XS#109

XS#108

XS#107

XS#106

XS#105

XS#104

XS#103

XS#102

XS#101

XS#100

XS#99

XS#98

XS#97

XS#96

XS#95

XS#94

XS#93

XS#92

XS#91

XS#90

XS#89

XS#88

XS#87

XS#86

XS#85

XS#84

XS#83

XS#82

XS#81

XS#80

XS#79

XS#78

XS#77

XS#76

XS#75

XS#74

XS#73

XS#72

XS#71

XS#70

XS#69

XS#68

XS#67

XS#66

XS#65

XS#64

XS#63

XS#62

XS#61

XS#60

XS#59

XS#58

XS#57

XS#56

XS#55

XS#54

XS#53

XS#52

XS#51

XS#50

XS#49

XS#48

XS#47

XS#46

XS#45

XS#44

XS#43

XS#42

XS#41

XS#40

XS#39

XS#38

XS#37

XS#36

XS#35

XS#34

XS#33

XS#32

XS#31

XS#30

XS#29

XS#28

XS#27

XS#26

XS#25

XS#24

XS#23

XS#22

XS#21

XS#20

XS#19

XS#18

XS#17

XS#16

XS#15

XS#14

XS#13

XS#12

XS#11

XS#10

XS#9

XS#8

XS#7

XS#6

XS#5

XS#4

XS#3

XS#2

XS#1

LEGEND

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

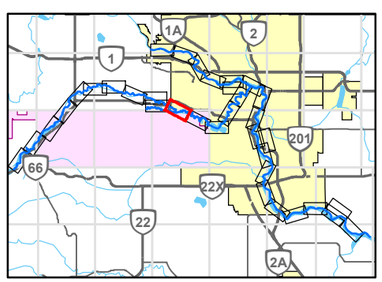
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S
LOTT CREEK = 21.3 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

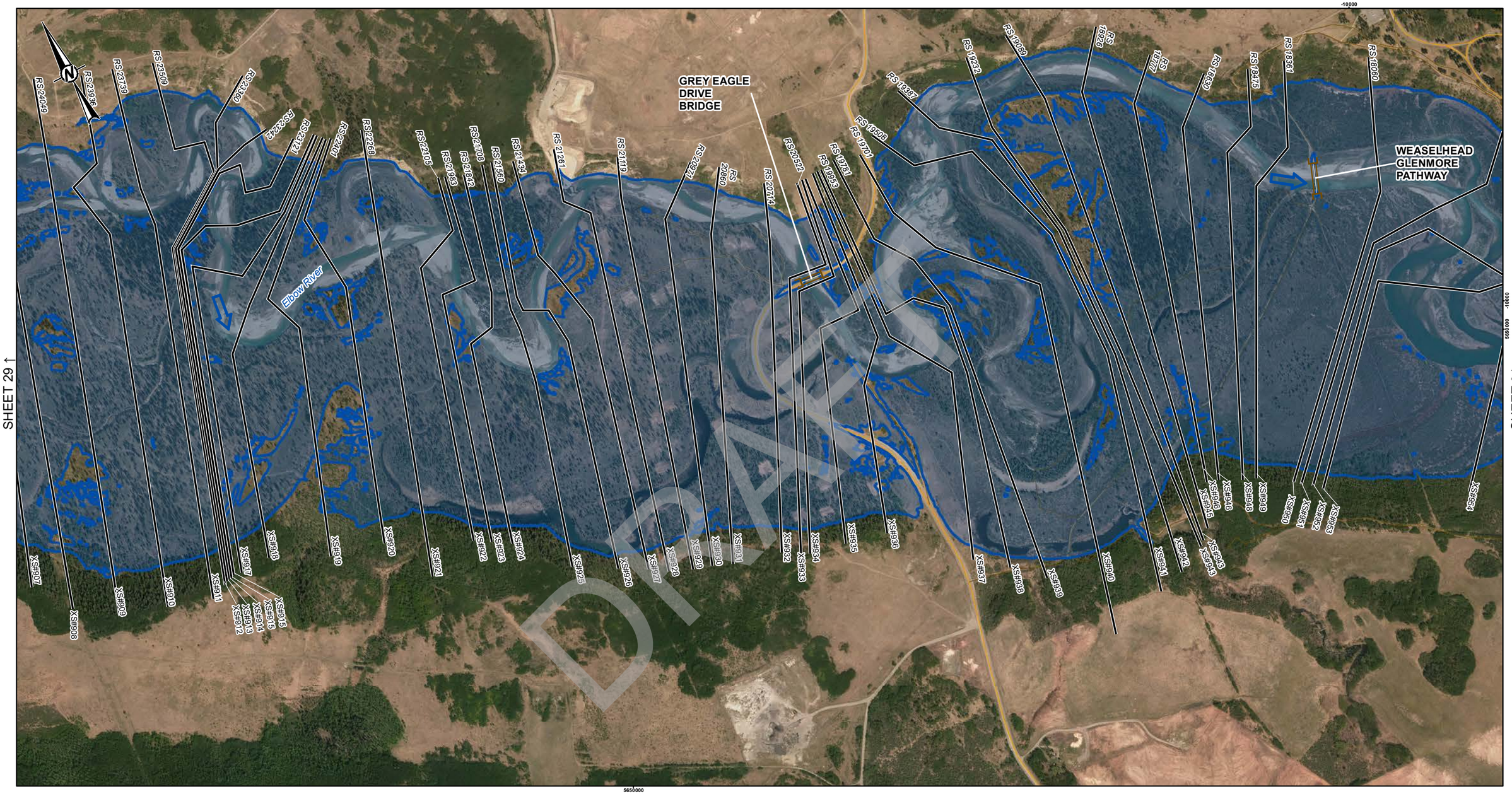
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:20:43 PM

Classification: Public



SHEET 29 ↑

SHEET 31 ↓

LEGEND

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

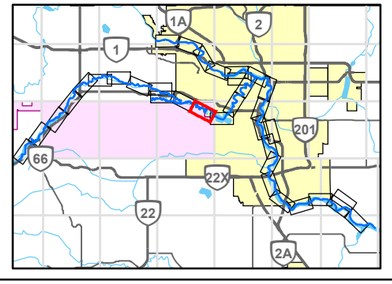
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

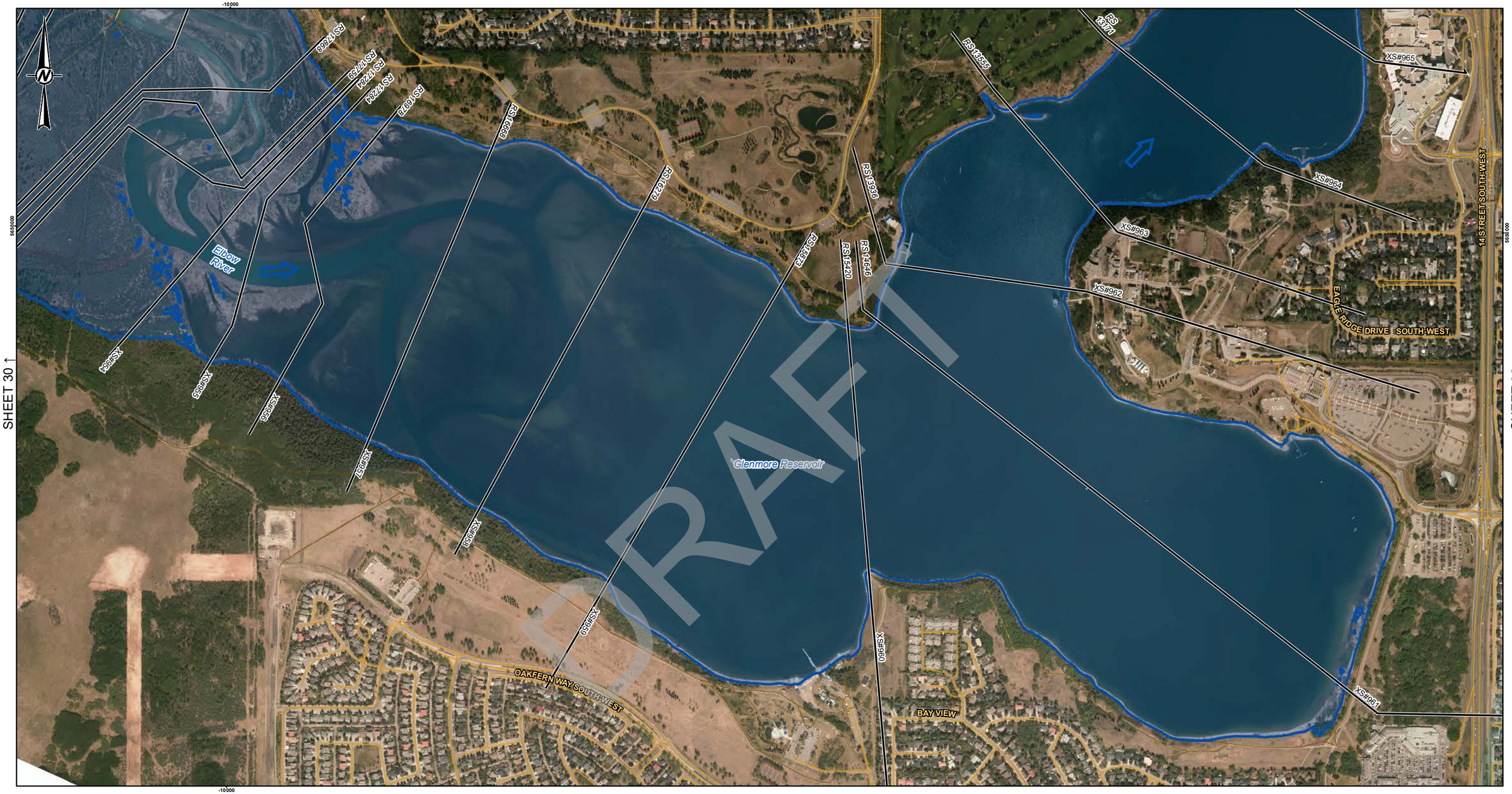
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:23:35 PM

Classification: Public



LEGEND

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

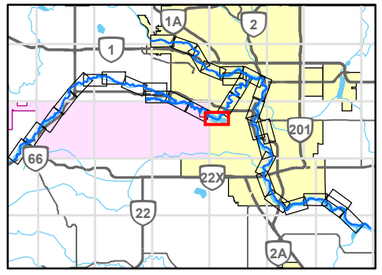
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 509 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:26:14 PM
Classification: Public

SHEET 31 ↑

SHEET 33 ↓

LEGEND

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

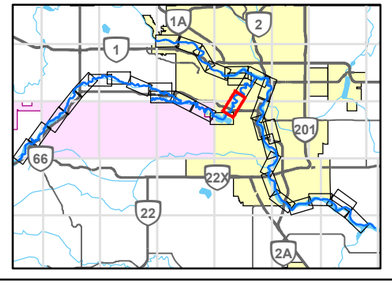
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 509 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm 0

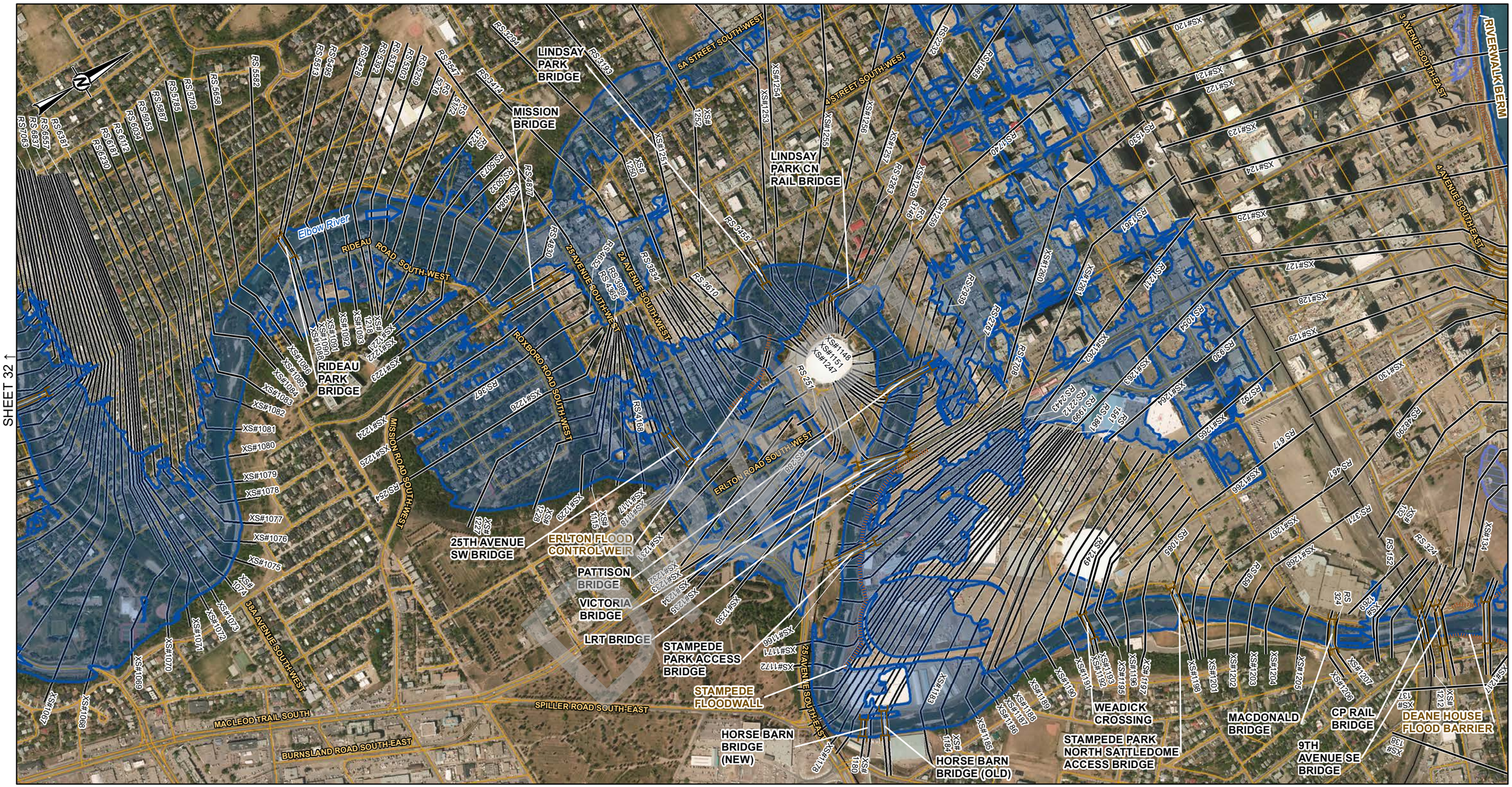
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_03\s-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:29:08 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

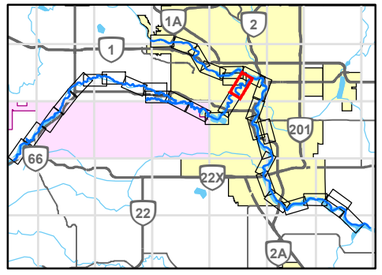
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 509 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1630 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

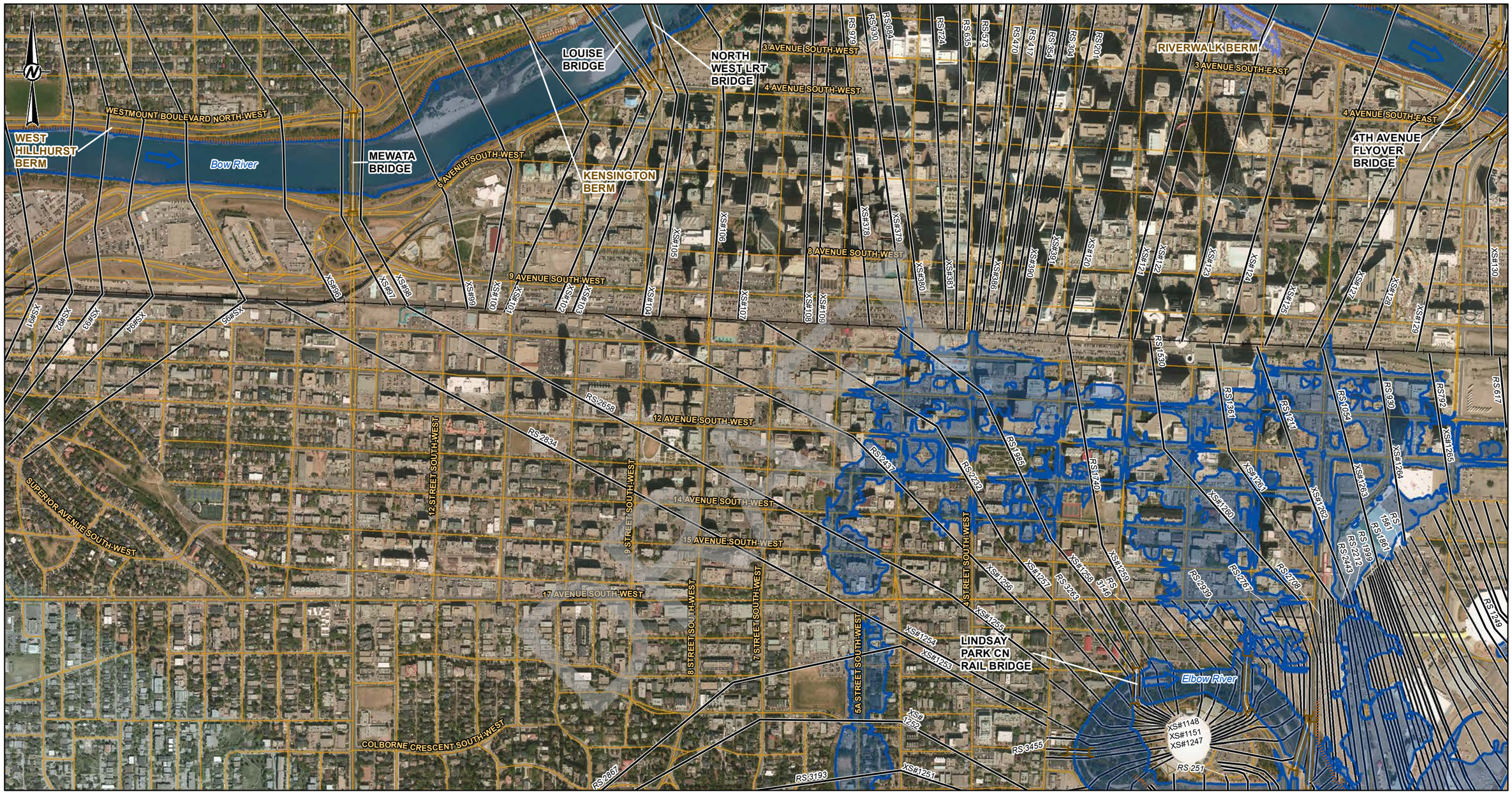
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:30:43 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

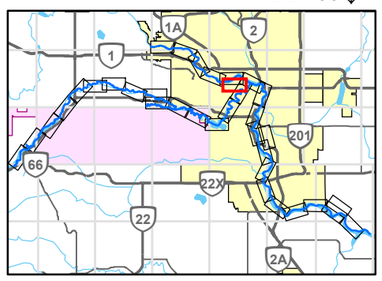
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

35-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 509 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
35-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:33:33 PM

Classification: Public

50-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

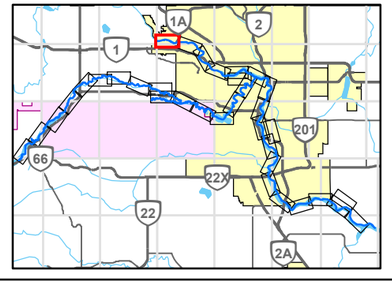
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

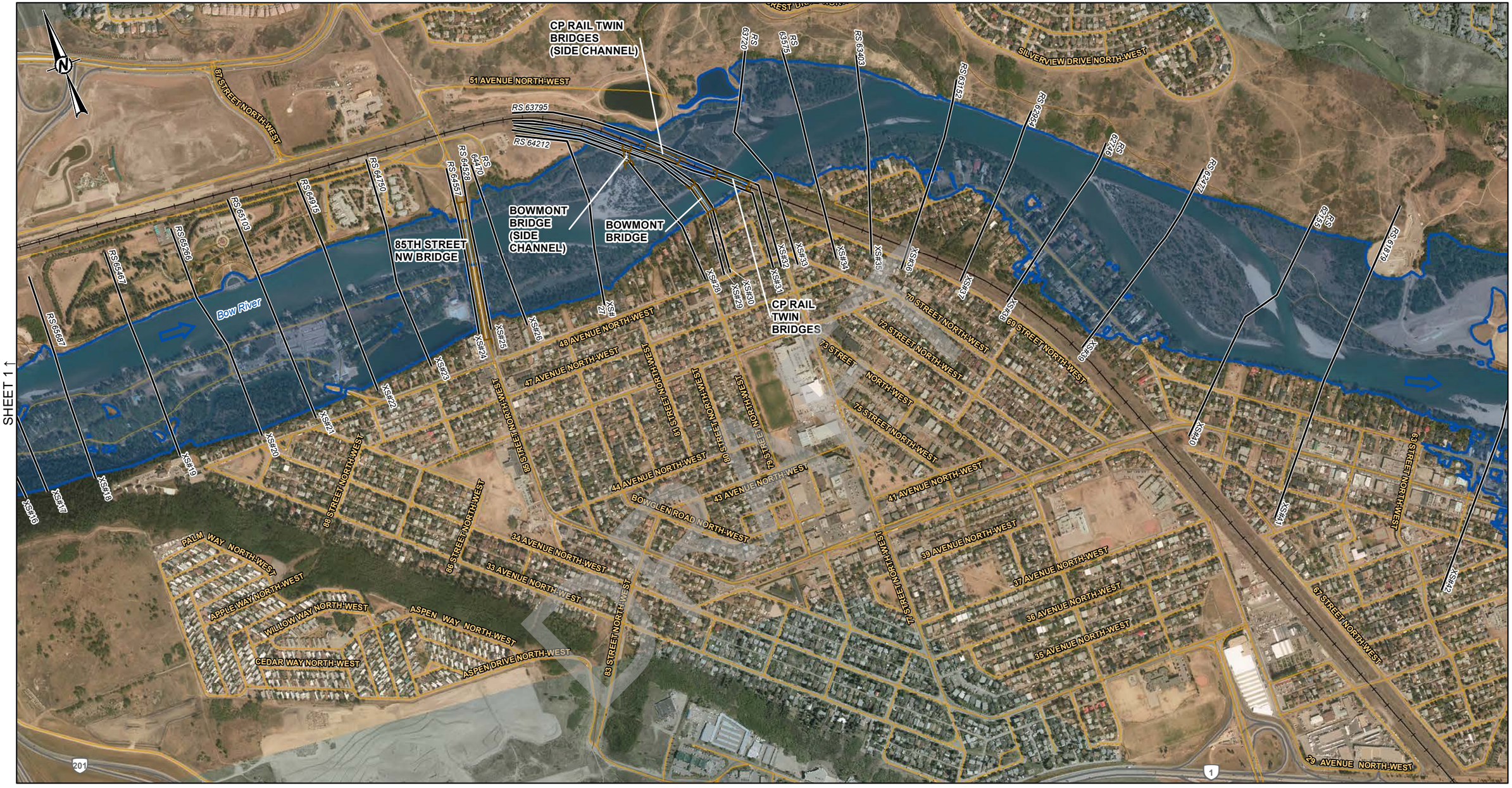
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:07:29 PM

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

LEGEND

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

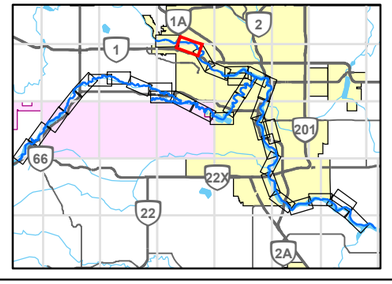
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

0 25mm

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:08:51 PM

LEGEND

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

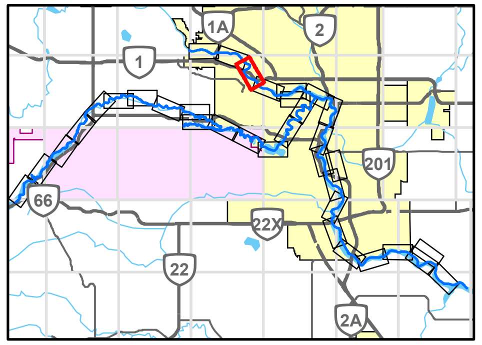
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M³/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

-10000

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST MOUNT ROAD NORTH-WEST

WEST HILLHURST BERM

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

XS#70 XS#71 XS#72 XS#73 XS#74 XS#75 XS#76 XS#77 XS#78 XS#79 XS#80 XS#81 XS#82 XS#83 XS#84 XS#85 XS#86 XS#87 XS#88 XS#89 XS#90

RS 67219 RS 57067 RS 57049 RS 56917 RS 56727 RS 56563 RS 56529 RS 56076 RS 55902 RS 55691 RS 55434 RS 55392 RS 54971 RS 54672 RS 54403 RS 54141 RS 53940 RS 53650 RS 53573 RS 53476 RS 53263 RS 53127 RS 53041 RS 52701 RS 52491 RS 52414 RS 52228 RS 52076 RS 52022

-10000

LEGEND

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

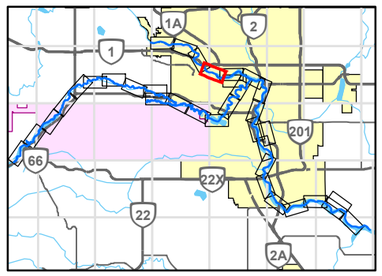
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:12:46 PM

Classification: Public

SHEET 4 ↑

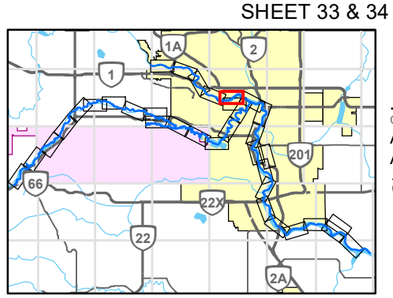
SHEET 6 ↓

10 AVENUE NORTH-WEST
8 AVENUE NORTH-WEST
6 AVENUE NORTH-WEST
3 AVENUE NORTH-WEST
1 AVENUE NORTH-WEST
WESTMOUNT ROAD NORTH-WEST
WESTMOUNT BOULEVARD NORTH-WEST
GLADSTONE ROAD NORTH-WEST
15 STREET NORTH-WEST
16 STREET NORTH-WEST
13 STREET NORTH-WEST
11 STREET NORTH-WEST
7 STREET NORTH-WEST
6A STREET NORTH-WEST
4A STREET NORTH-WEST
1 AVENUE SOUTH-WEST
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
6 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
3 AVENUE SOUTH-EAST

SUNNYSIDE BARRIER
PEACE BRIDGE
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
MEWATA BRIDGE
WEST HILLHURST BERM
CROWCHILD TRAIL BRIDGE
PRINCE'S ISLAND CAUSEWAY
PRINCE'S LAGOON WEIRS
JAIPUR BRIDGE
PRINCE'S ISLAND BRIDGE
PRINCE'S ISLAND BRIDGE ON SIDE CHANNEL
WEST EAU CLAIRE FLOOD BARRIER
CENTRE STREET BRIDGE BARRIER
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM

Bow River

SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

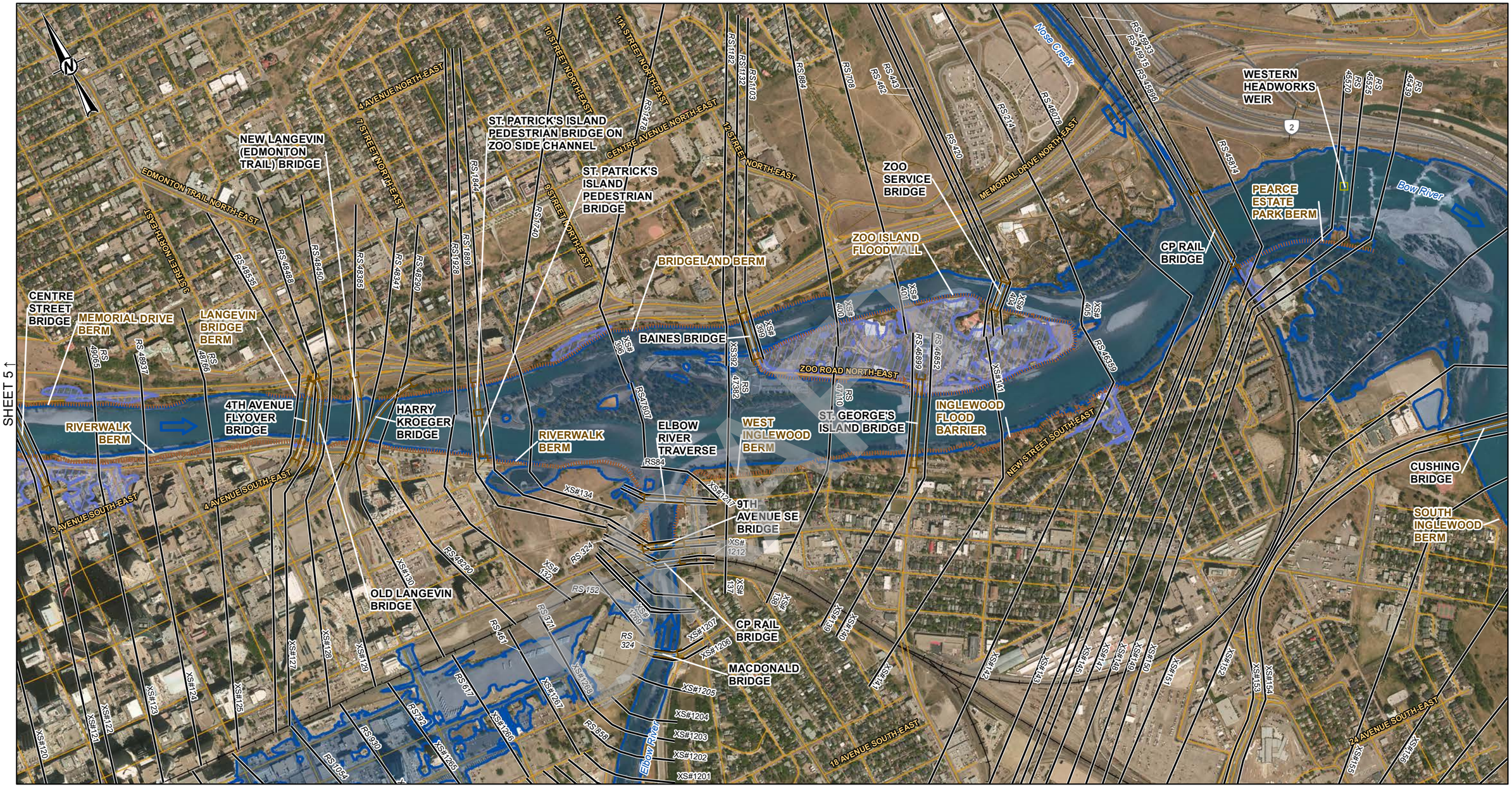
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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

25mm 0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:14:54 PM



LEGEND

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

HYDRAULIC STRUCTURES

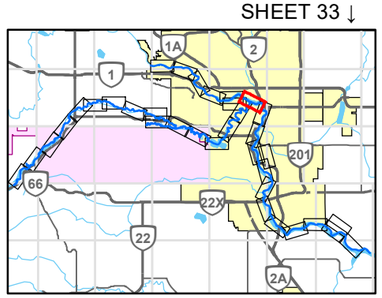
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 610 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1860 M^3/S
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

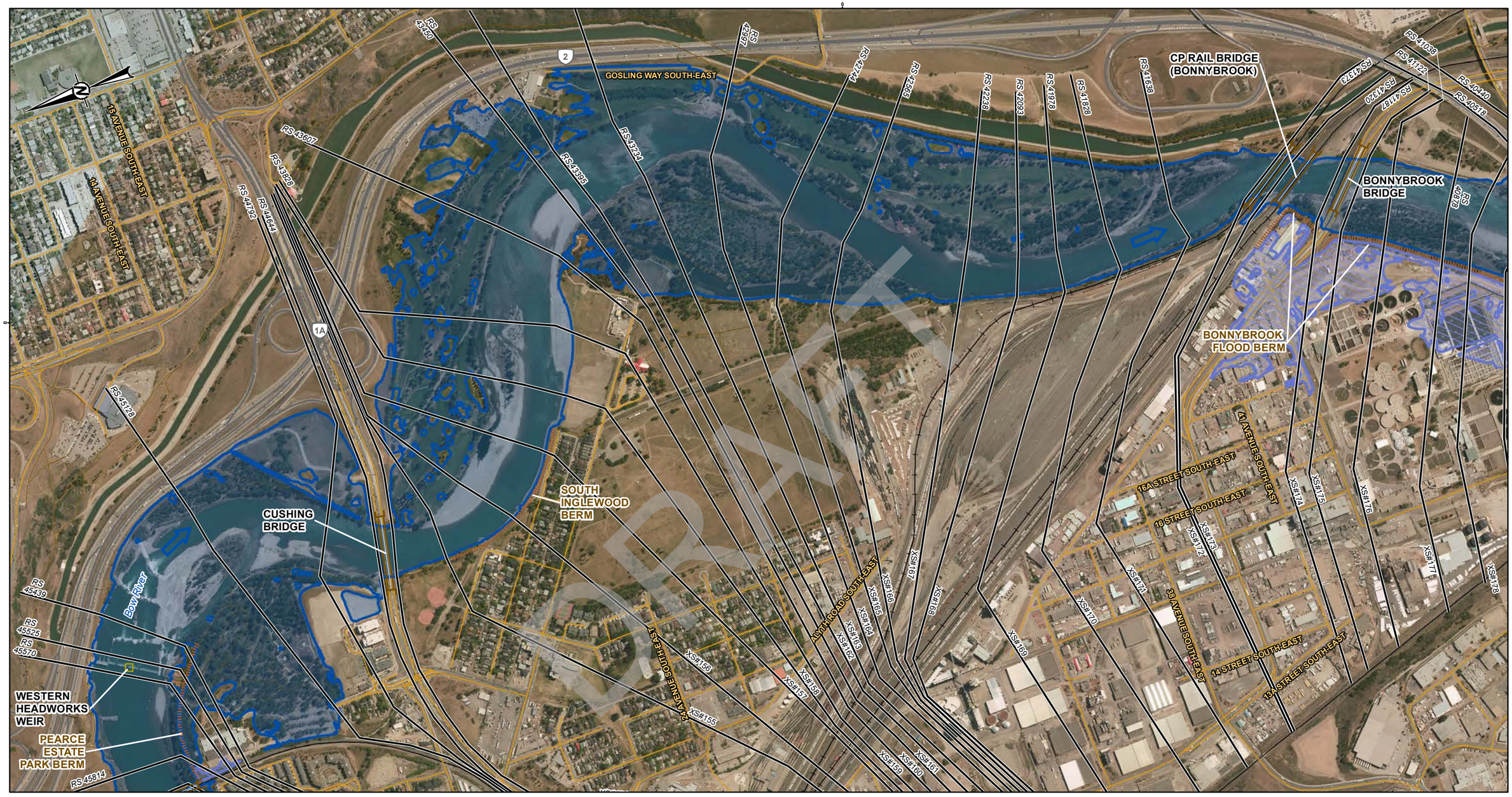
TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:16:46 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

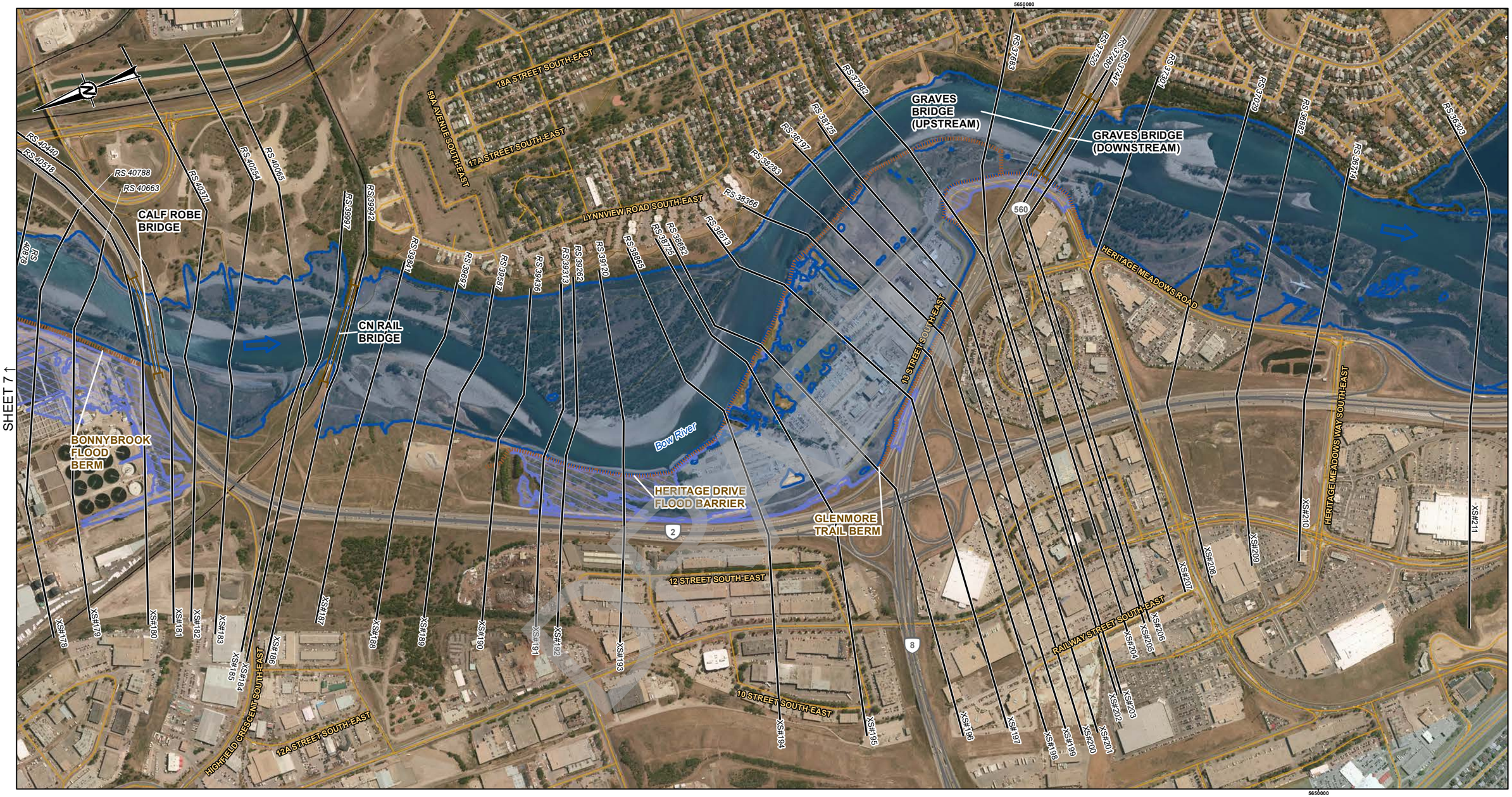
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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

0 25mm

DRAFT

Classification: Public



SHEET 7 ↑

SHEET 9 ↓

LEGEND

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

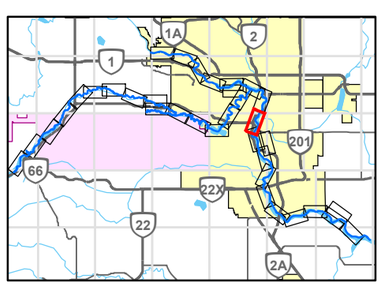
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:20:05 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

18 STREET SOUTH-EAST

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

2

Bow River

RS 37639
RS 37630
RS 37480
RS 37301
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35723
RS 35602
RS 35419
RS 35275
RS 35139
RS 34889
RS 34780
RS 34758
RS 34557

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

DRAFT

LEGEND

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

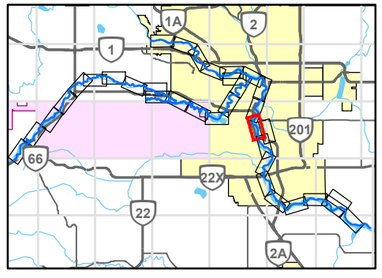
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05\0y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:21:42 PM

Classification: Public

LEGEND

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

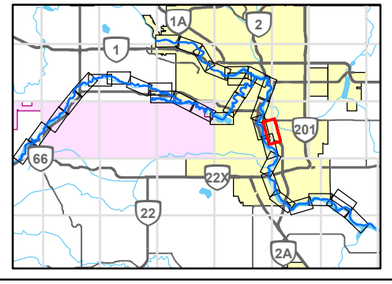
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:23:01 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

DRAFT

LEGEND

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

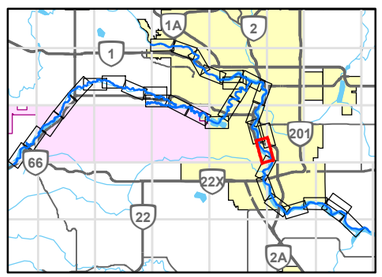
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

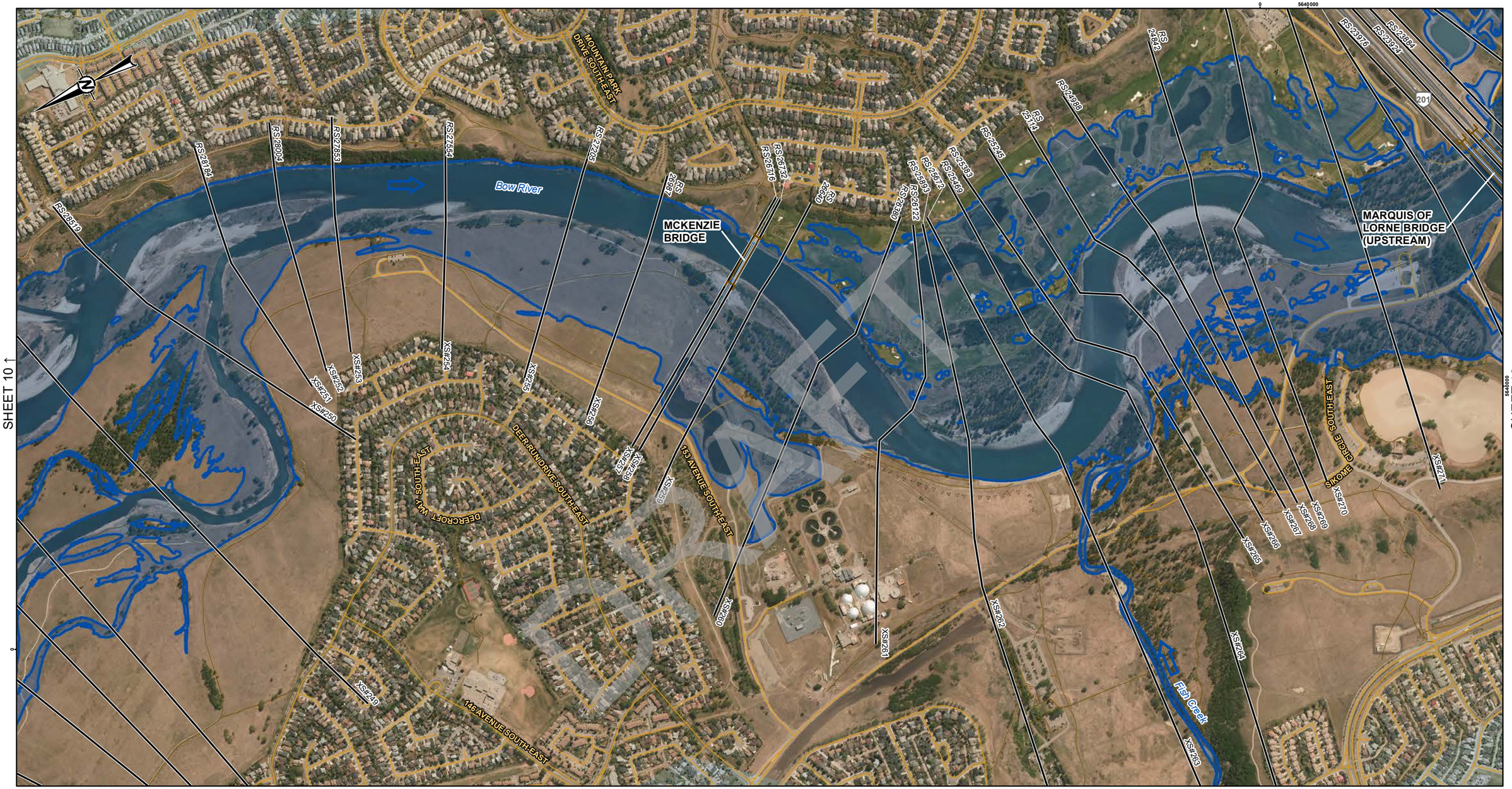
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ (50)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:24:33 PM

Classification: Public



LEGEND

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

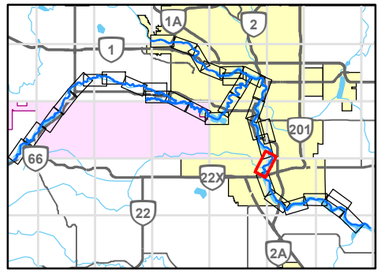
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 1890 M^3/S
BOW RIVER BELOW FISH CREEK = 1980 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

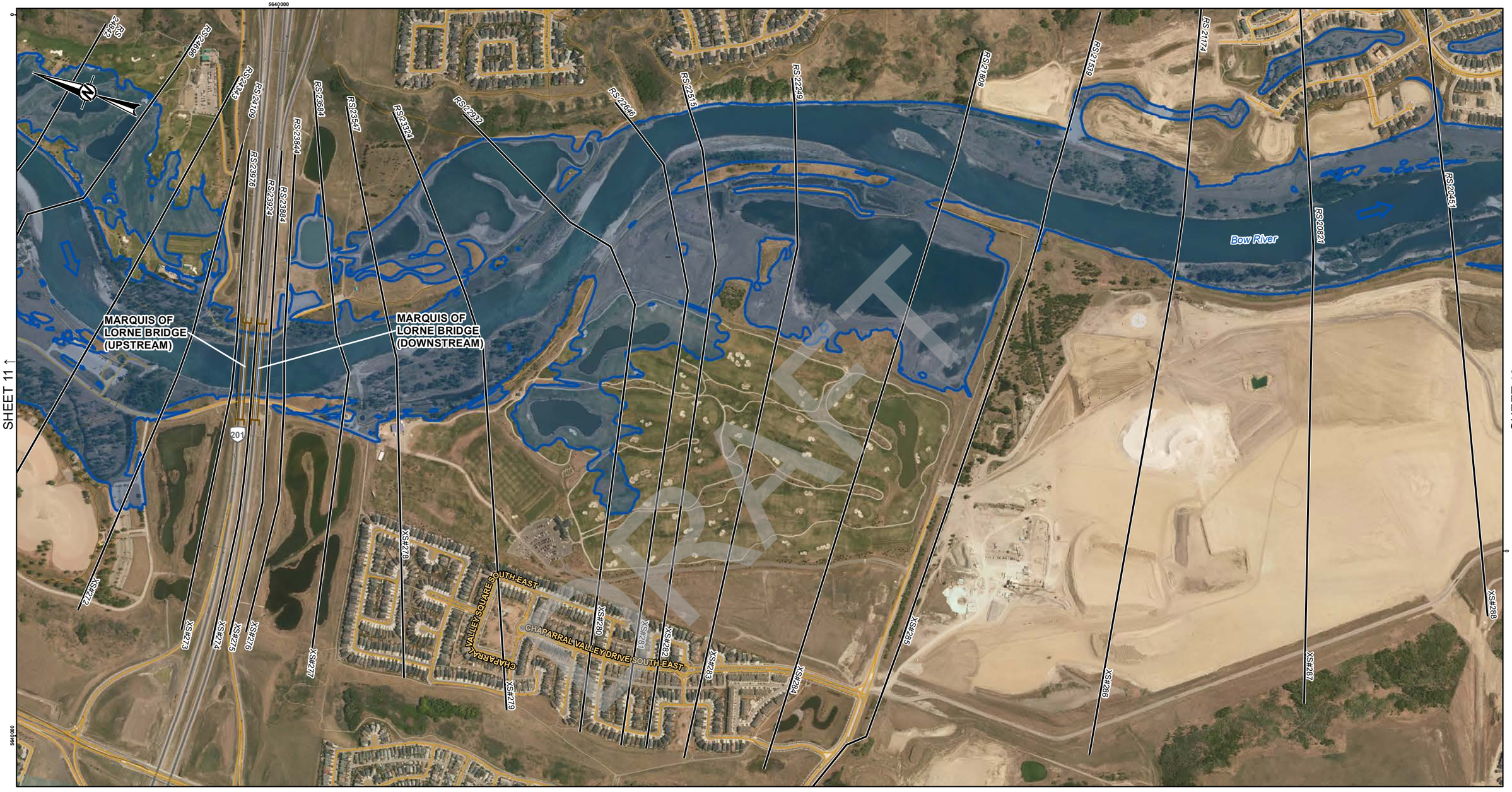
TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:26:13 PM

Classification: Public



LEGEND

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

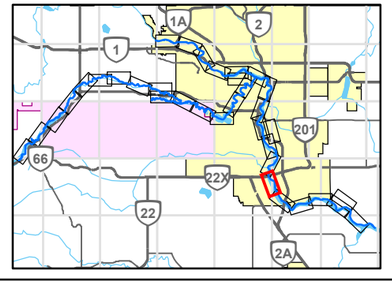
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1980 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

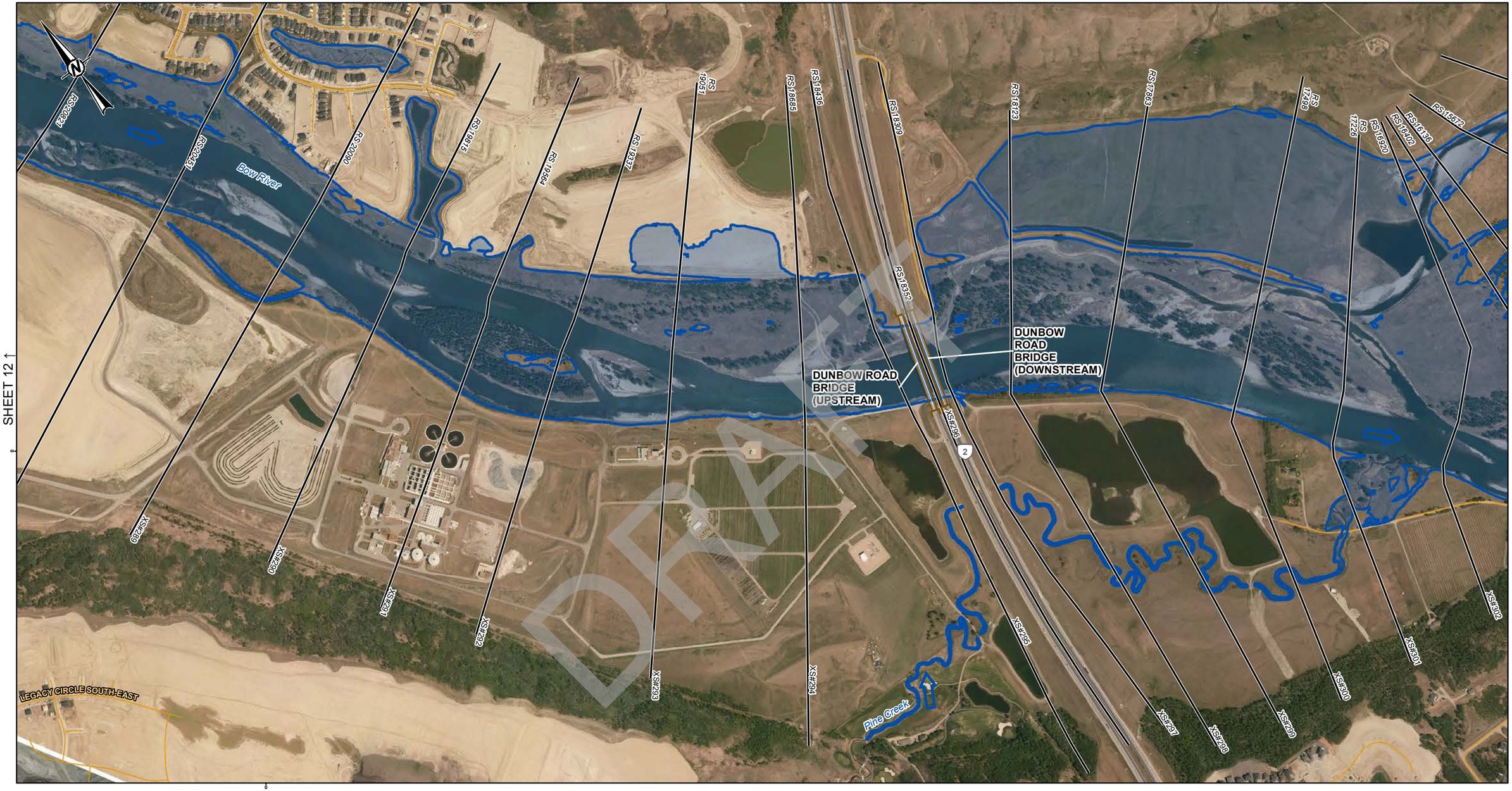
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:27:58 PM

DRAFT

Classification: Public



DRAFT

LEGEND

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

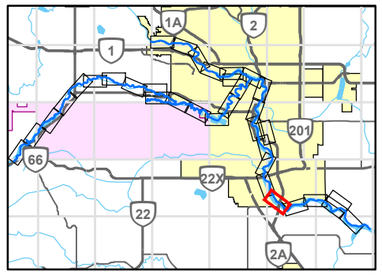
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 1980 M^3/S
BOW RIVER BELOW PINE CREEK = 2020 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

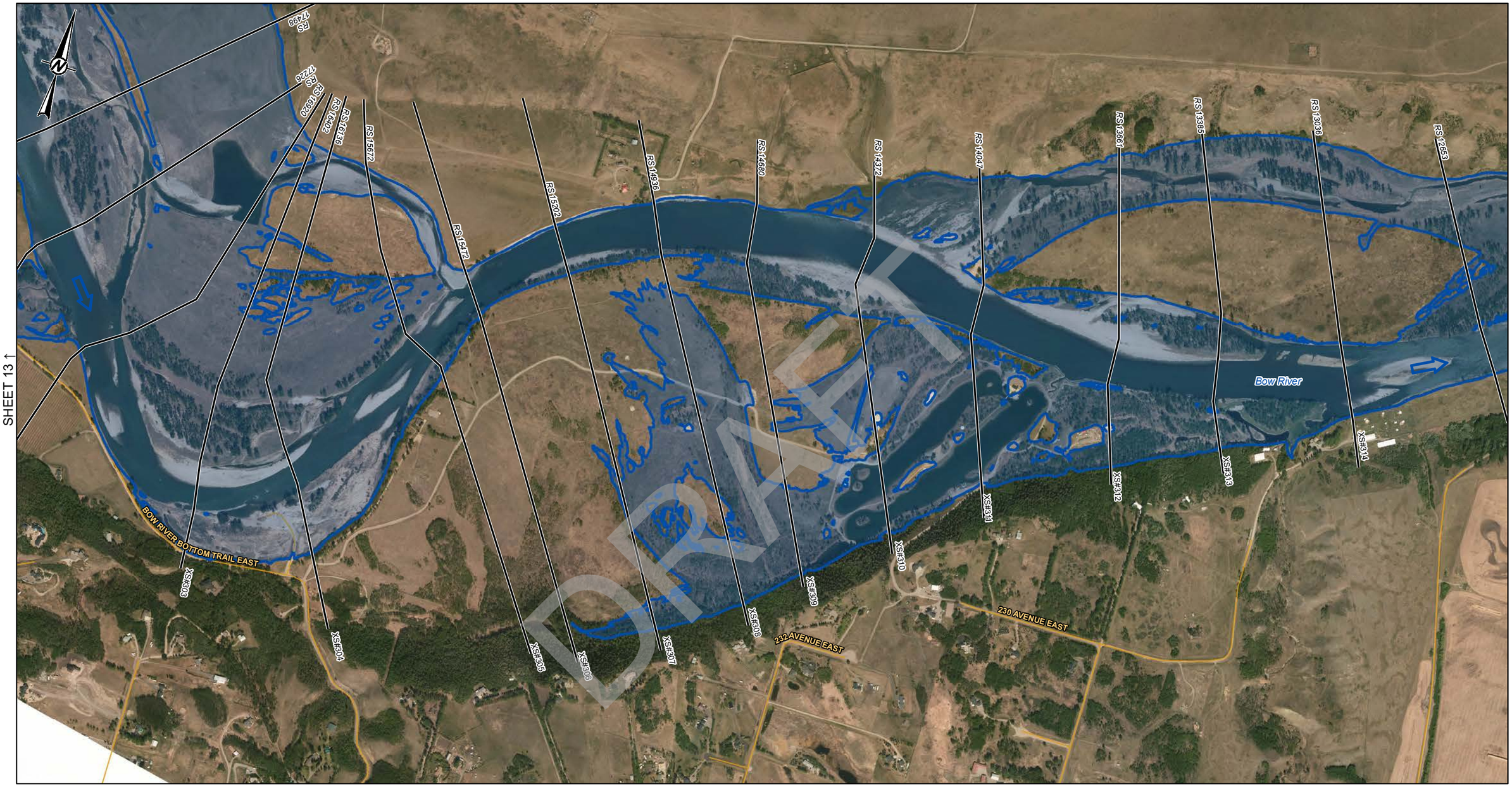
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 060-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:29:50 PM

Classification: Public



SHEET 13 ↑

SHEET 15 ↓

LEGEND

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

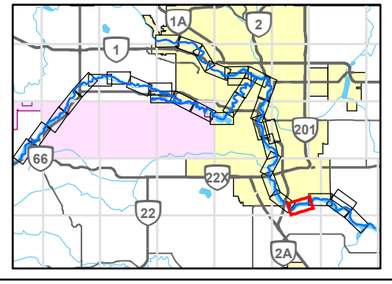
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2020 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

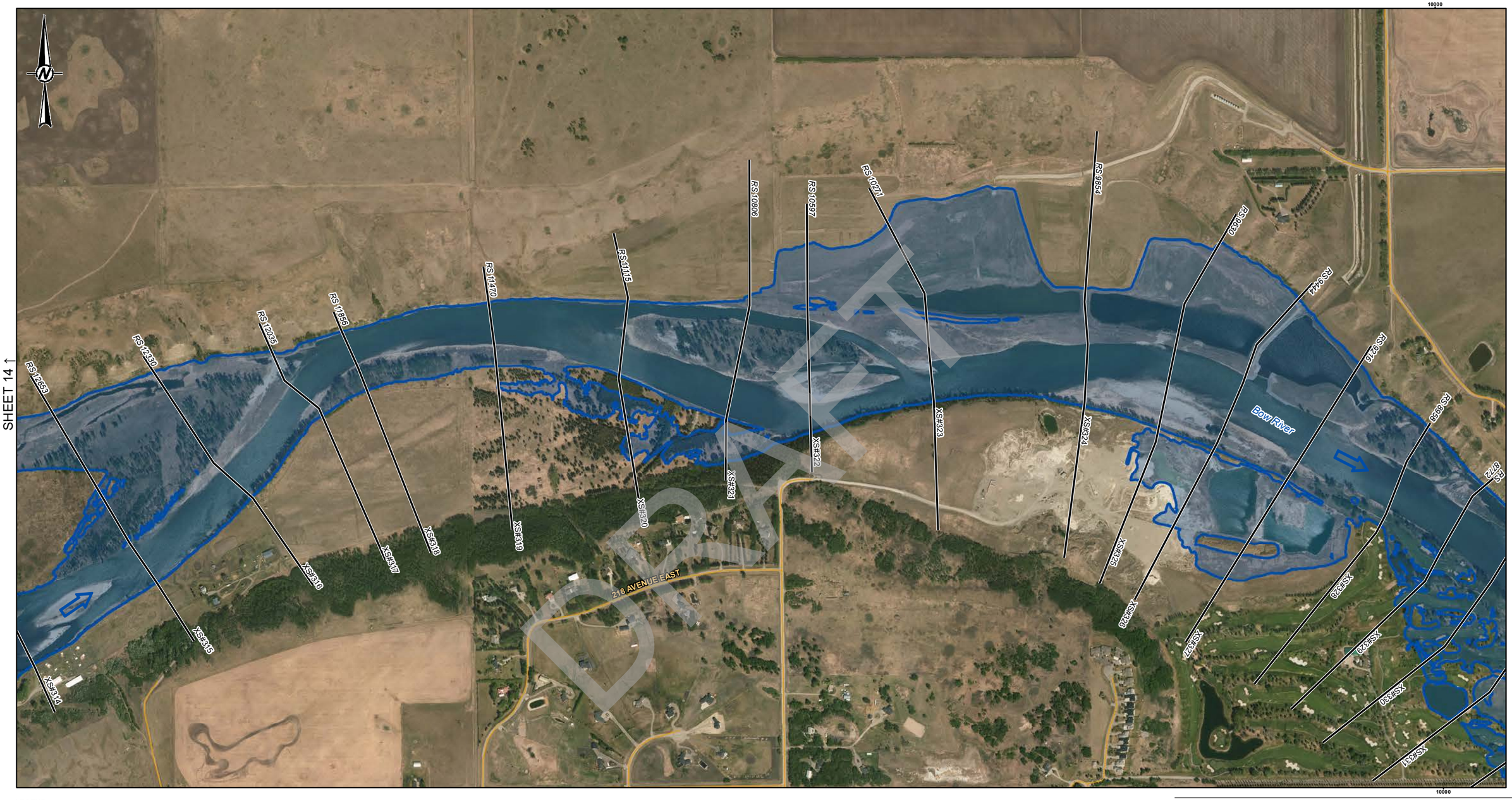
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 13:1:26 PM

Classification: Public



DRAFT

LEGEND

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

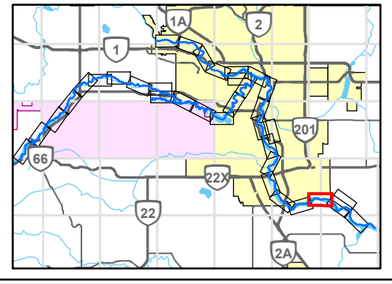
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2020 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 2040 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:32:50 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

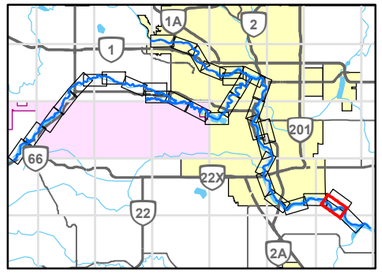
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2040 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

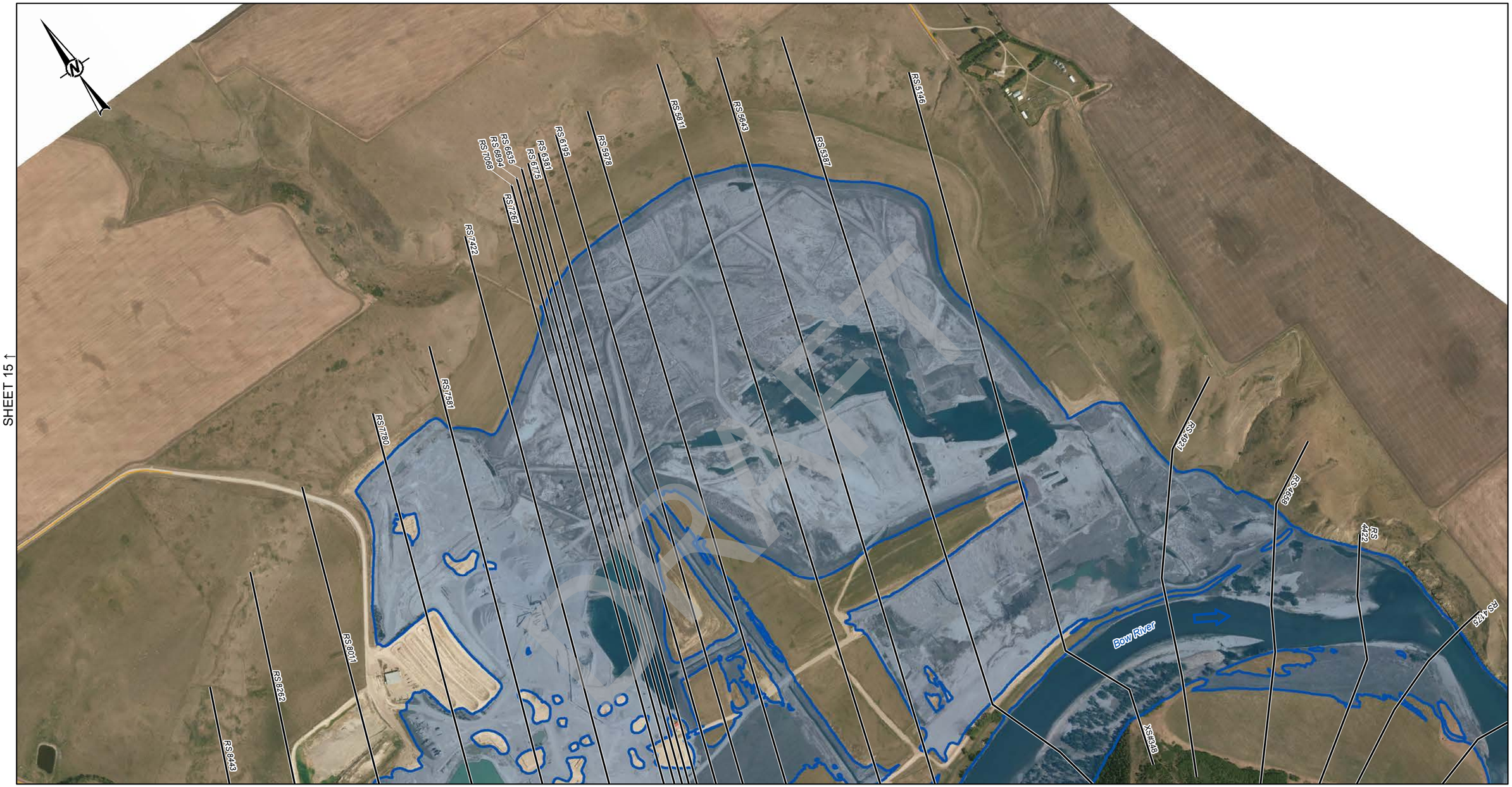
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:34:40 PM

Classification: Public



SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

HYDRAULIC STRUCTURES

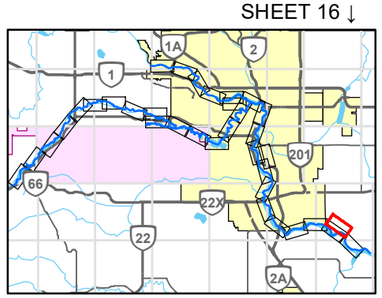
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2040 M^3/S

SHEET 16 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_(60)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:36:17 PM

Classification: Public

LEGEND

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

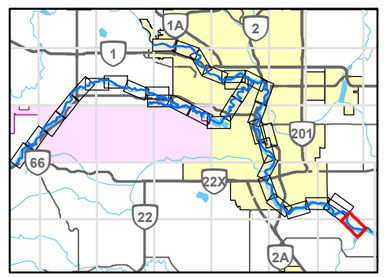
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2040 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

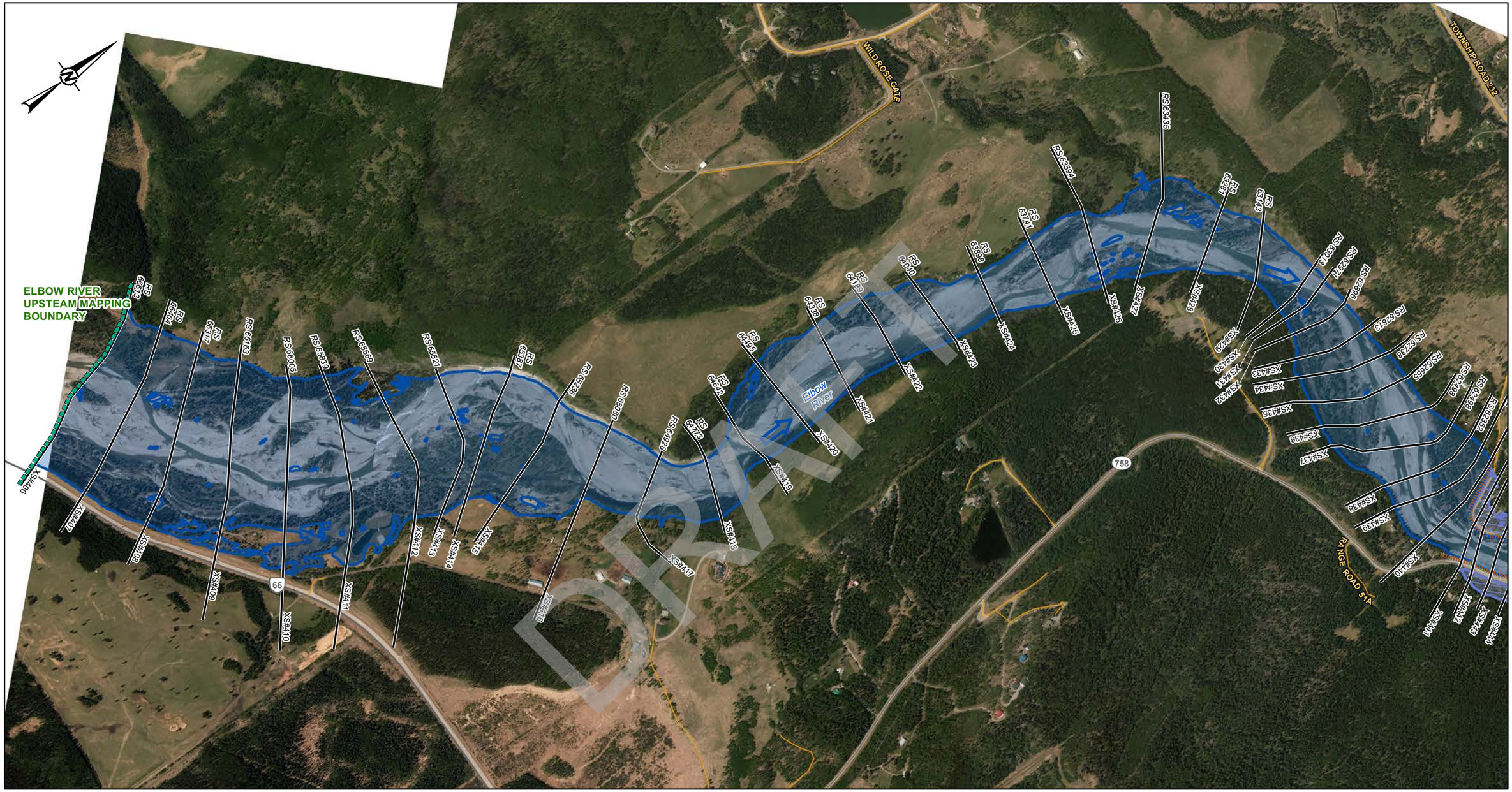
TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:37:54 PM



SHEET 20 ↓

LEGEND

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

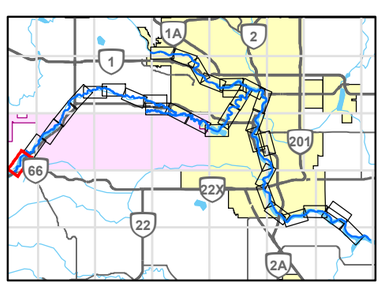
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

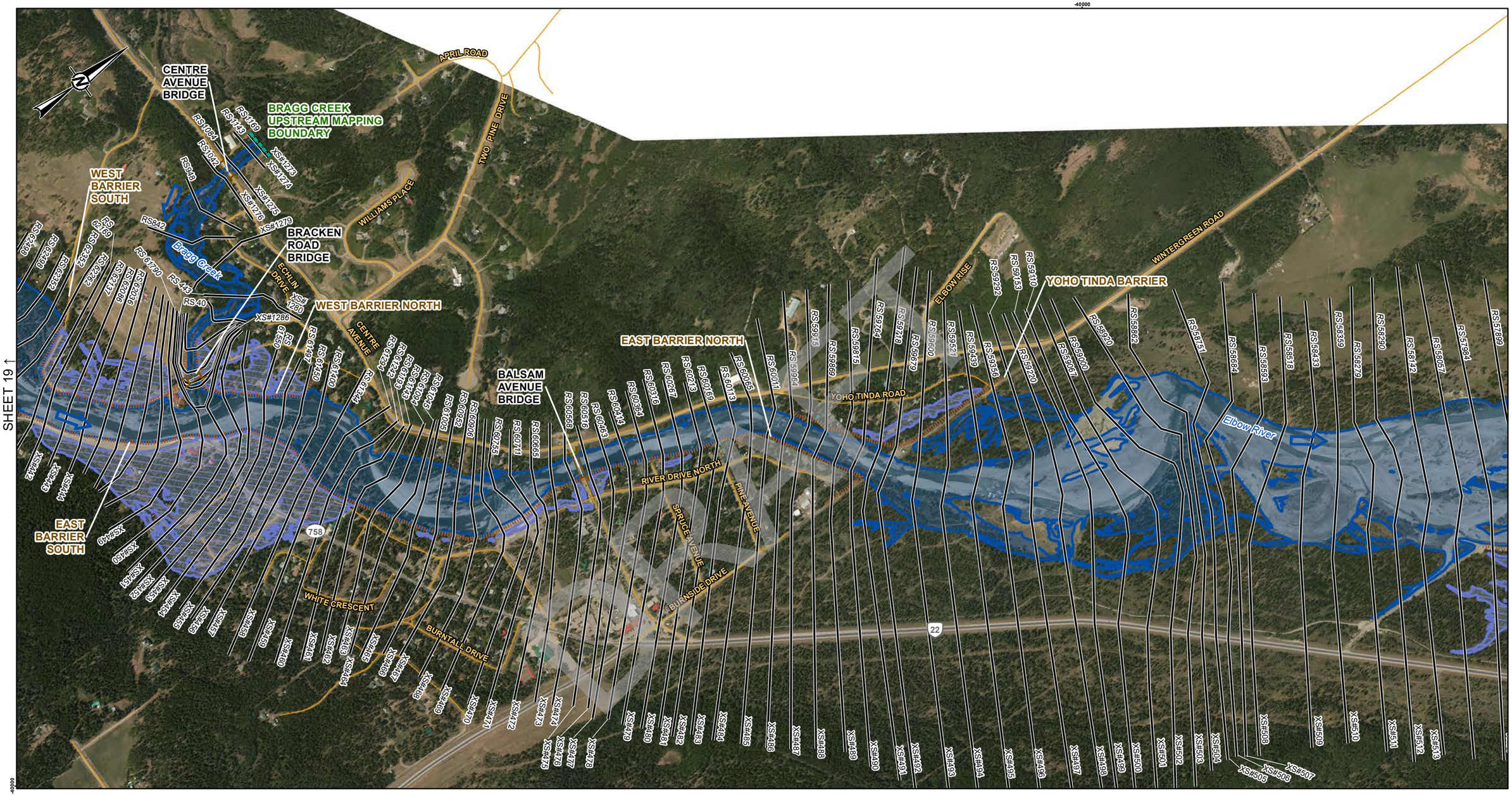
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:40:33 PM

Classification: Public



LEGEND

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

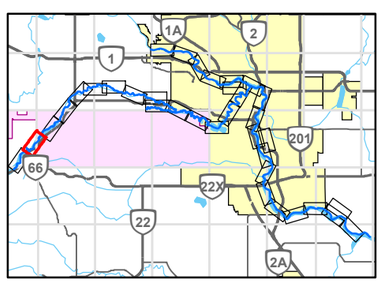
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S
BRAGG CREEK = 37 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

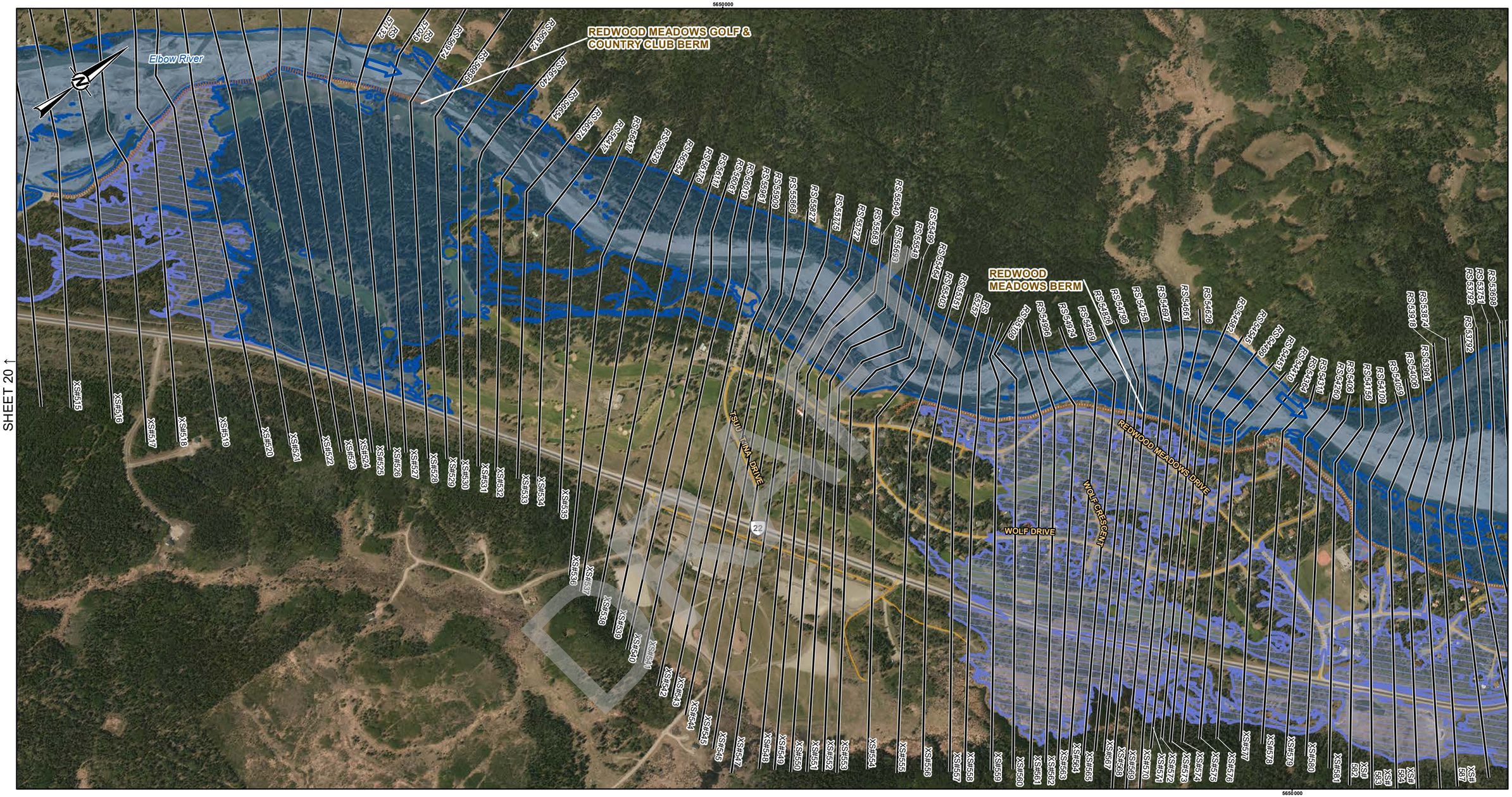
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:42:52 PM

Classification: Public



LEGEND

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

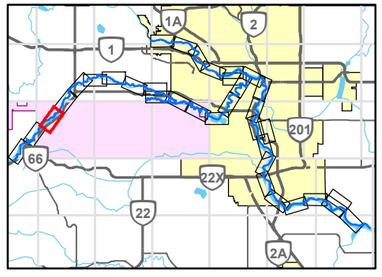
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

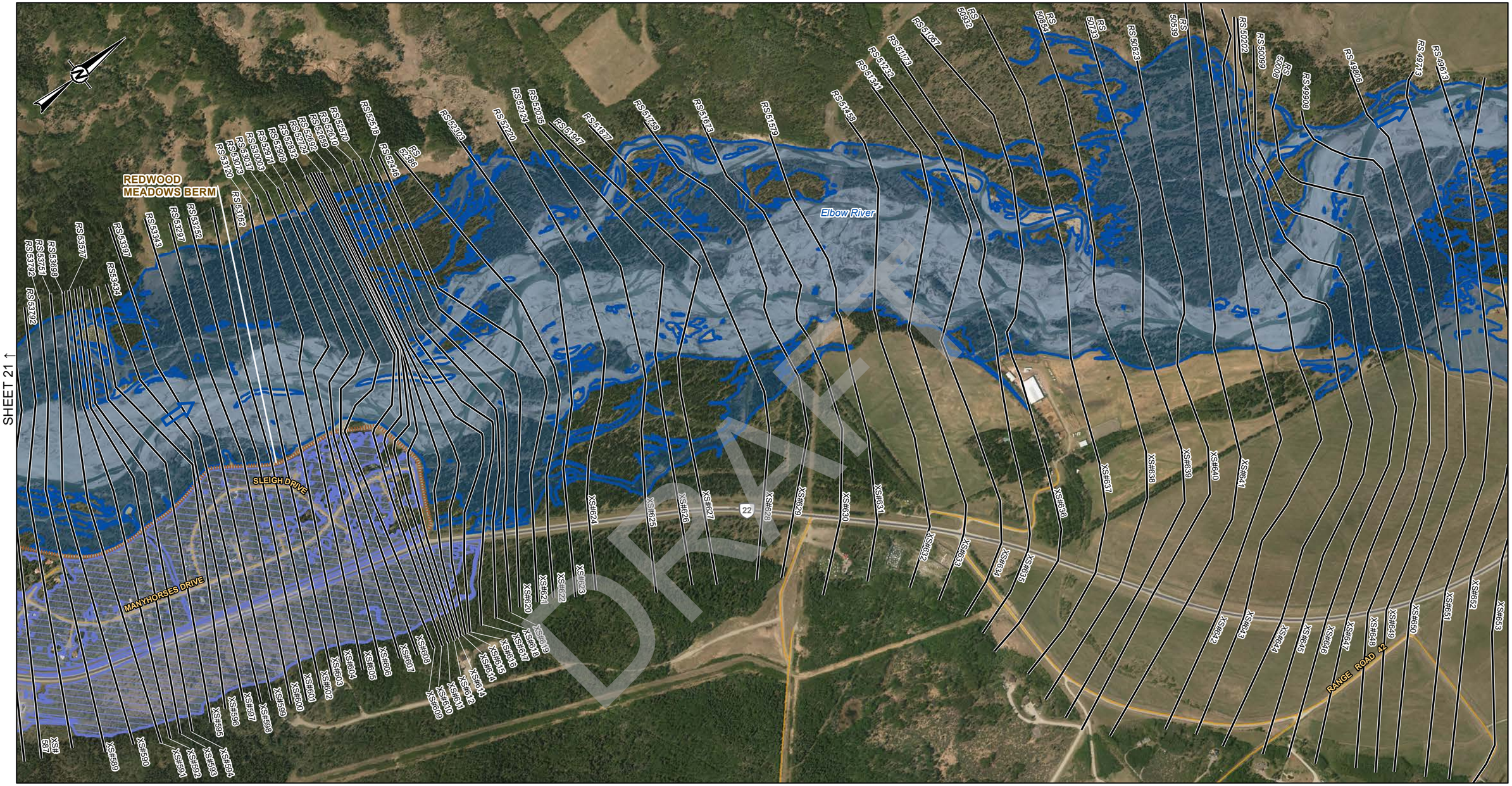
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ (50)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:45:20 PM

Classification: Public



DRAFT

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

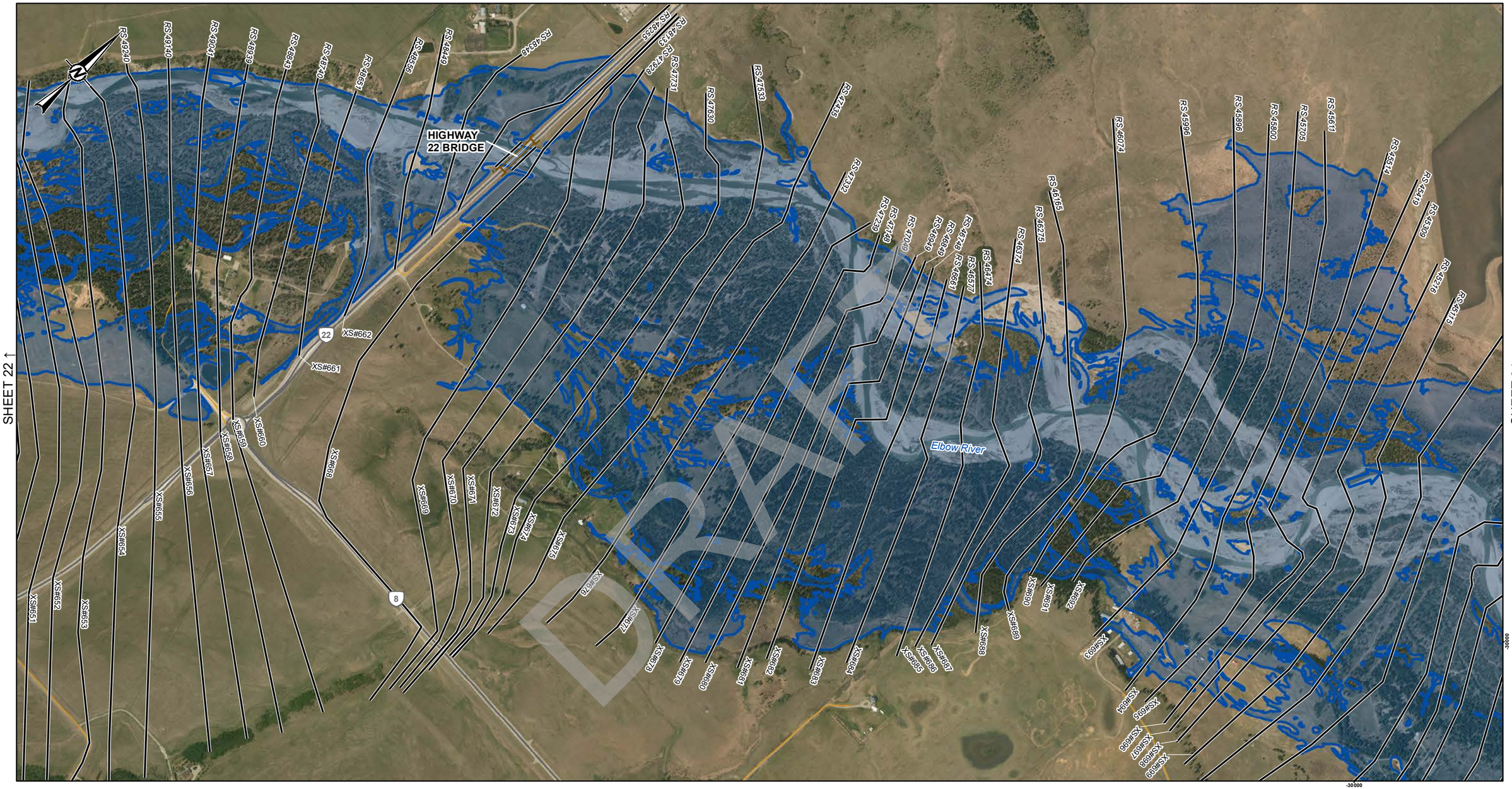
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:47:56 PM

Classification: Public



DRAFT

LEGEND

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

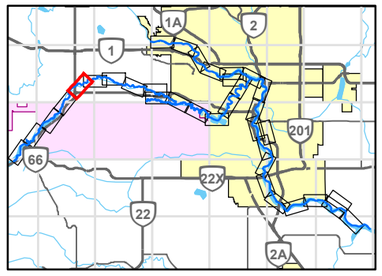
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

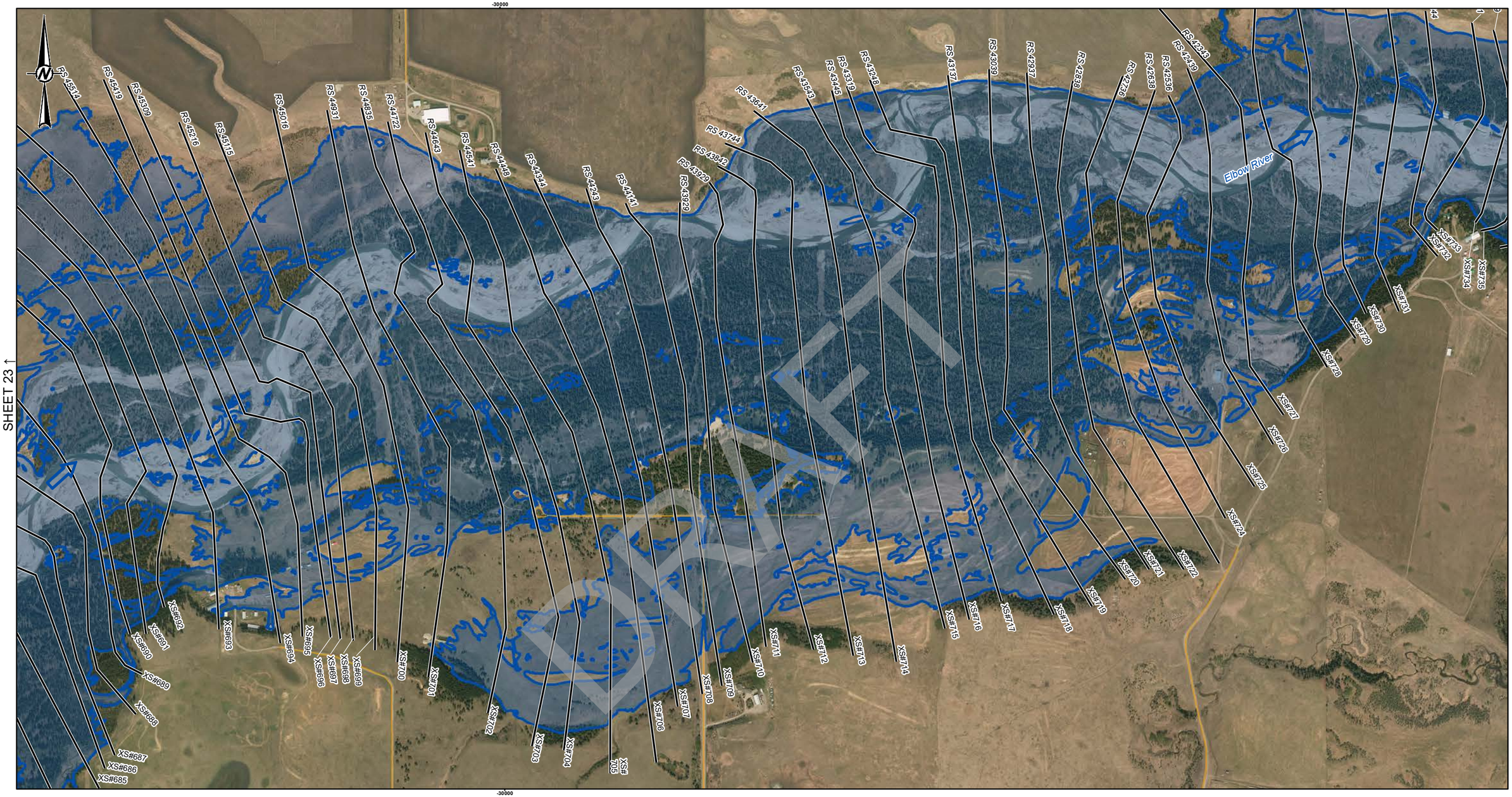
TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_060-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:50:45 PM

Classification: Public



LEGEND

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

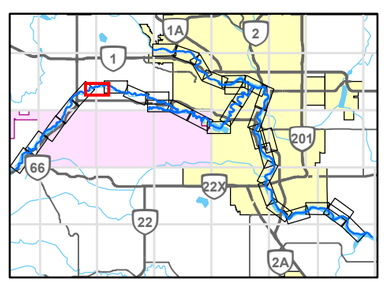
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

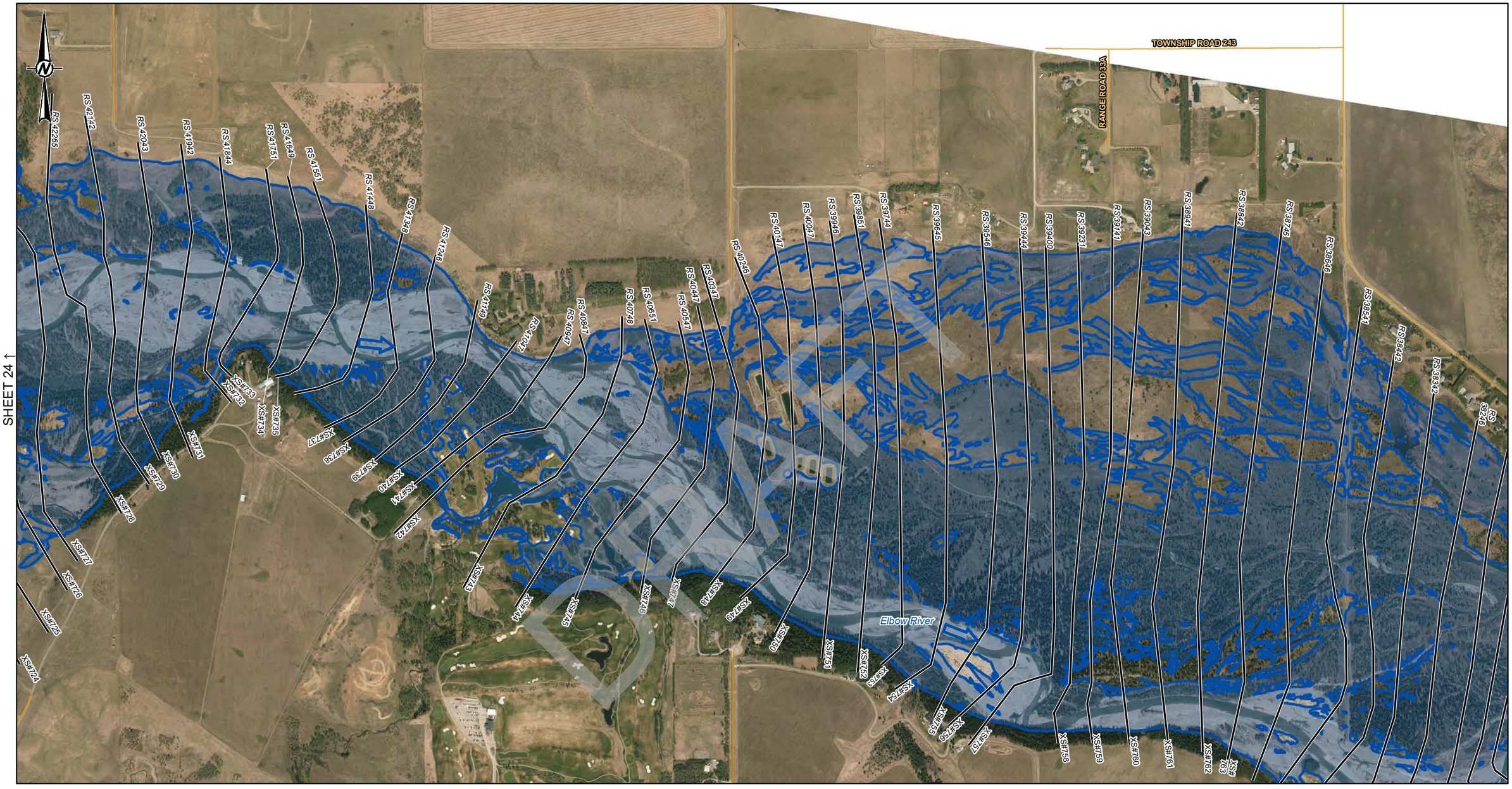
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:52:58 PM

Classification: Public



LEGEND

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

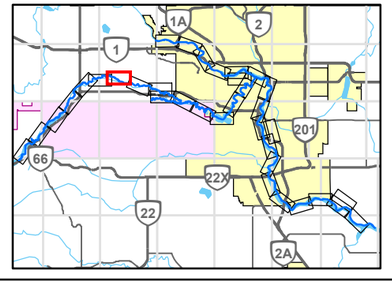
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

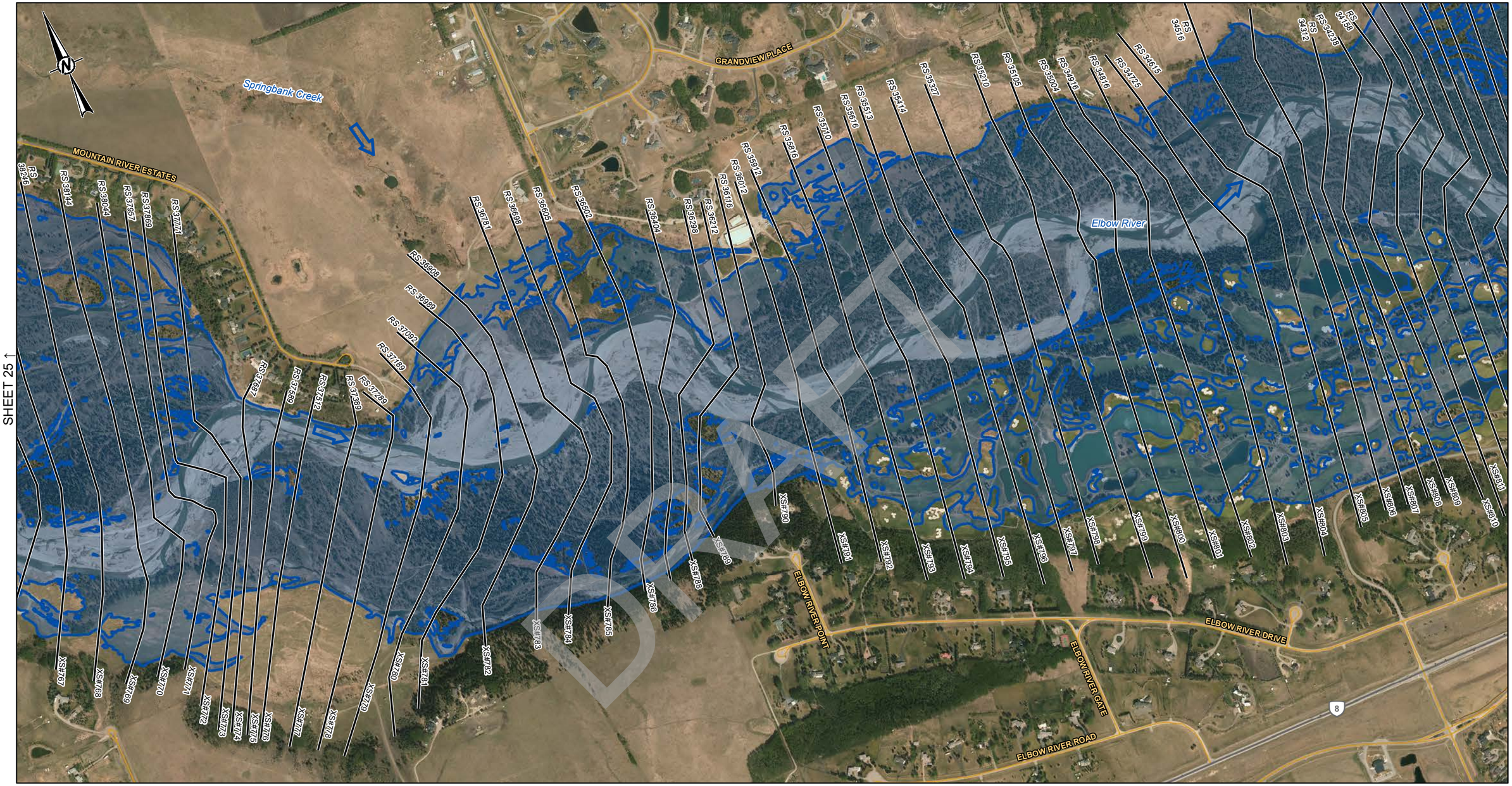
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:54:52 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

DRAFT

LEGEND

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

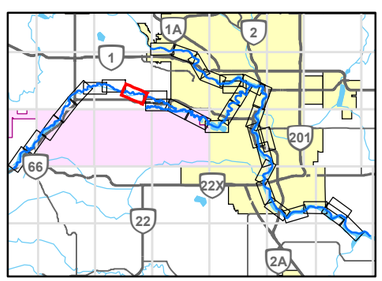
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 607 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

25mm

0

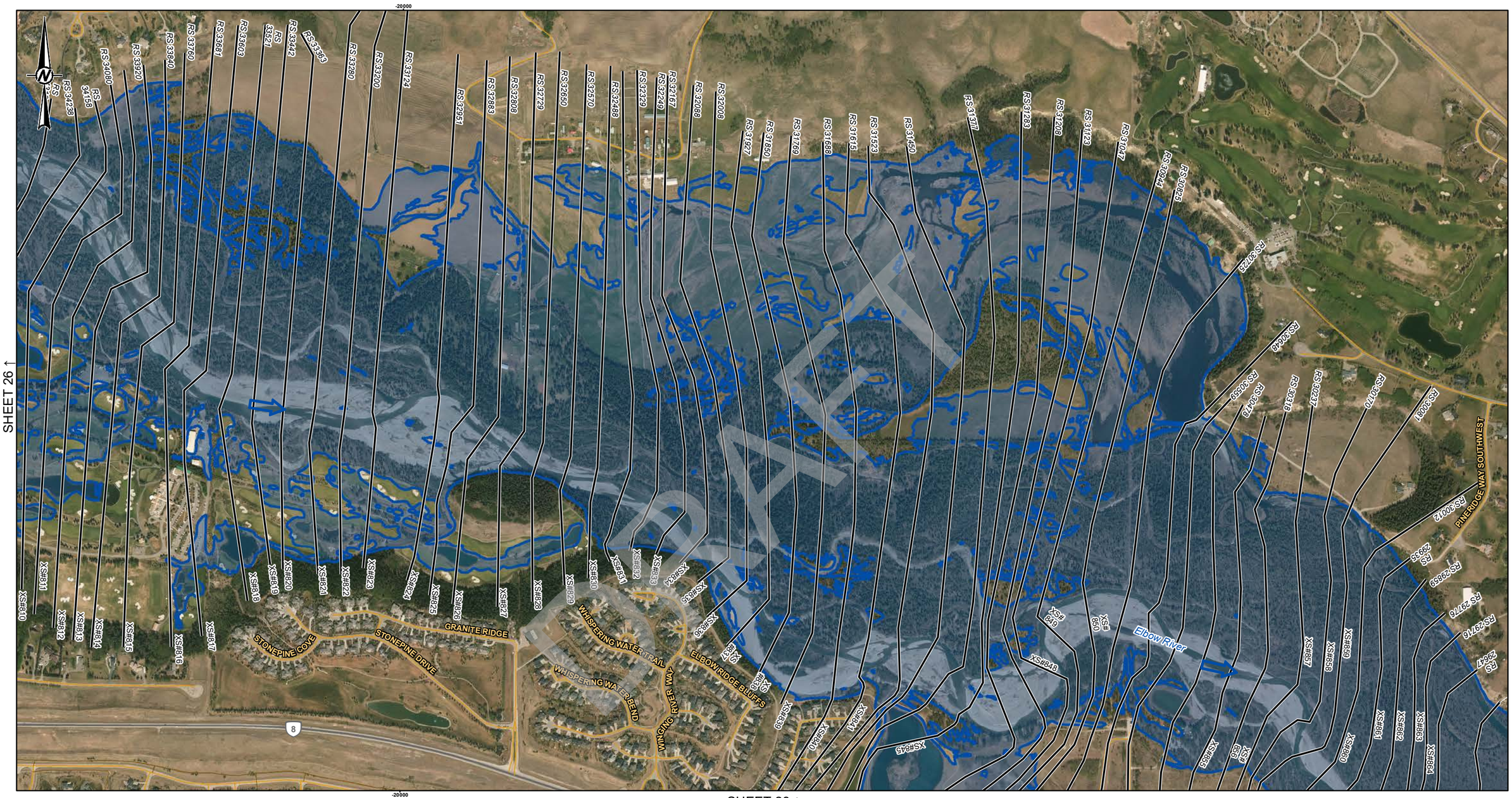
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_060-v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 1:57:19 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

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

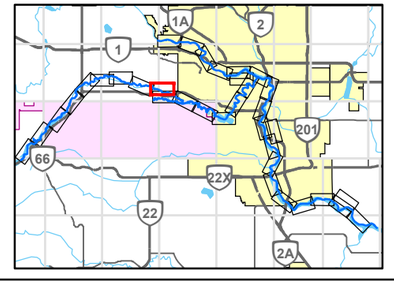
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S
LOTT CREEK = 24.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

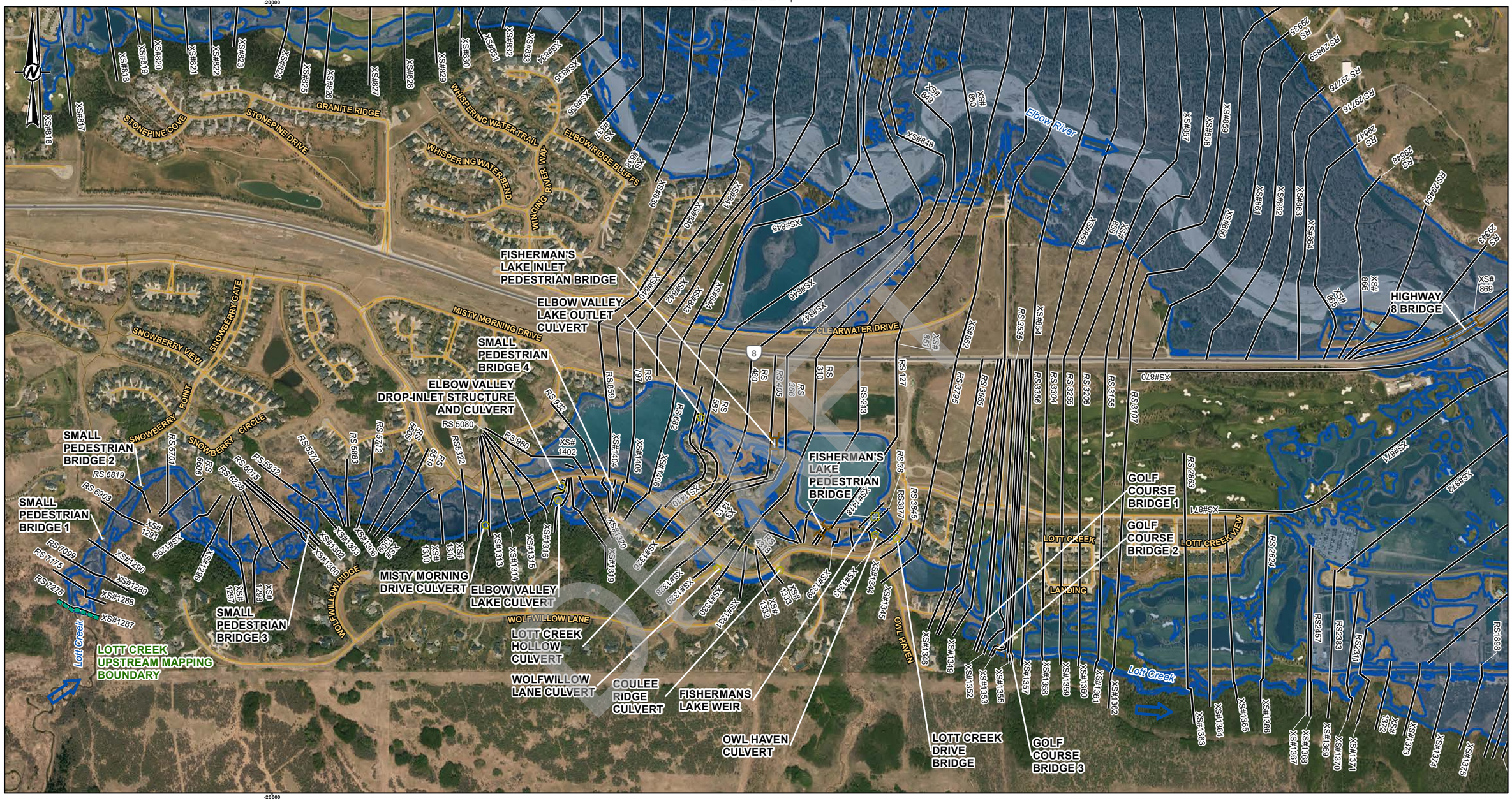
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:00:15 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

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

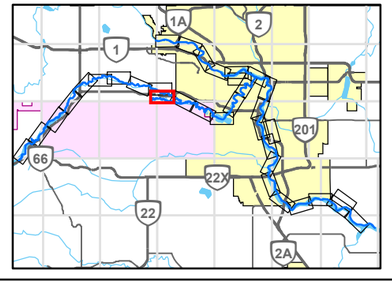
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S
LOTT CREEK = 24.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:03:10 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

Elbow River

RS 65

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S
LOTT CREEK = 24.4 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_060y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:06:30 PM

Classification: Public

SHEET 29 ↑

SHEET 31 ↓

-10000

8684000

5650000

GREY EAGLE DRIVE BRIDGE

WEASELHEAD GLENMORE PATHWAY

Elbow River

RS 24049 RS 23938 RS 23739 RS 23509 RS 23360 RS 23242 RS 23121 RS 22901 RS 22708 RS 22105 RS 21953 RS 21642 RS 21709 RS 21560 RS 21434 RS 21261 RS 21119 RS 20971 RS 20860 RS 20714 RS 20522 RS 19953 RS 19761 RS 19701 RS 19508 RS 19237 RS 19232 RS 19089 RS 18926 RS 18777 RS 18659 RS 18475 RS 18361 RS 18060

XS#907 XS#908 XS#909 XS#910 XS#911 XS#912 XS#913 XS#914 XS#915 XS#916 XS#917 XS#918 XS#919 XS#920 XS#921 XS#922 XS#923 XS#924 XS#925 XS#926 XS#927 XS#928 XS#929 XS#930 XS#931 XS#932 XS#933 XS#934 XS#935 XS#936 XS#937 XS#938 XS#939 XS#940 XS#941 XS#942 XS#943 XS#944 XS#945 XS#946 XS#947 XS#948 XS#949 XS#950 XS#951 XS#952 XS#953 XS#954

DRAFT

LEGEND

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

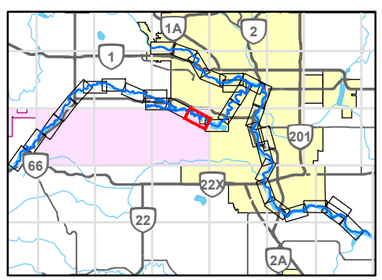
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

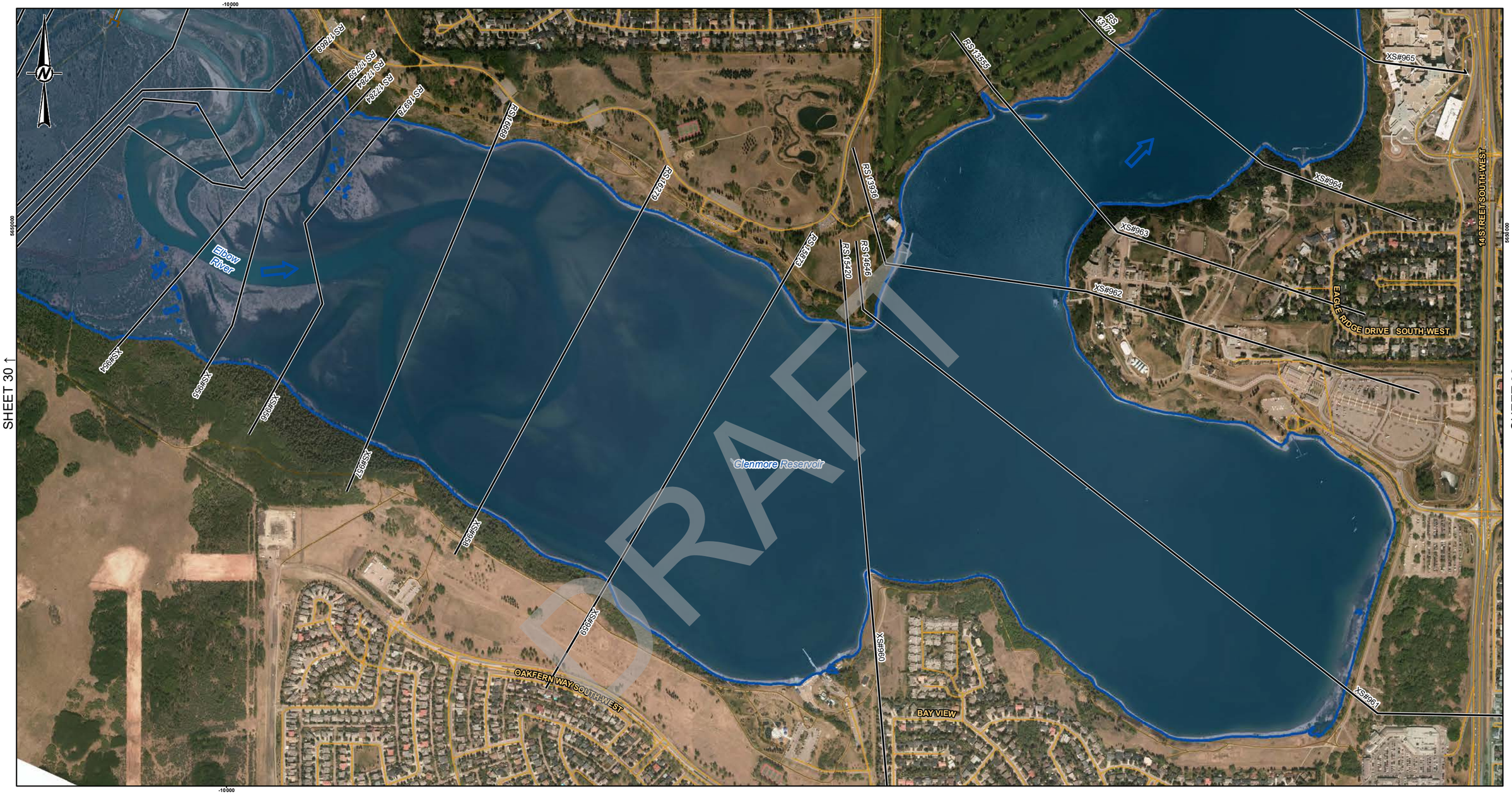
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050r-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:09:29 PM

Classification: Public



LEGEND

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

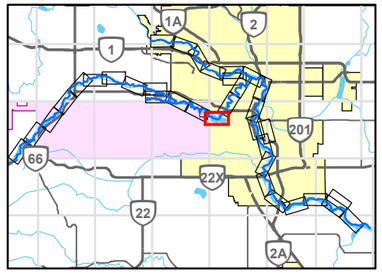
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 610 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i600-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:12:00 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓

Glenmore Reservoir

Elbow River

GLENMORE TRAIL BRIDGE

GLENMORE DAM

SANDY BEACH BRIDGE

RIVERDALE AVENUE BRIDGE

ELBOYA BRIDGE

LONGRIDGE DRIVE SOUTH-WEST

50 AVENUE SOUTH-WEST

14A STREET SOUTH-WEST

BRITANNIA DRIVE SOUTH-WEST

IMPERIAL WAY SOUTH-WEST

CRESCENT BOULEVARD SOUTH-WEST

BALDWIN CRESCENT SOUTH-WEST

MASSEY PLACE SOUTH-WEST

BEVERLEY BOULEVARD SOUTH-WEST

BEL-AIRE DRIVE SOUTH-WEST

MALIBOU ROAD SOUTH-WEST

KLONDIKE AVENUE SOUTH-WEST

GLENMORE TRAIL SOUTH-WEST

14 STREET SOUTH-WEST

ELBOW DRIVE SOUTH-WEST

55 AVENUE SOUTH-WEST

56 AVENUE SOUTH-WEST

6 STREET SOUTH-WEST

52 AVENUE SOUTH-WEST

51 AVENUE SOUTH-WEST

49 AVENUE SOUTH-WEST

47 AVENUE SOUTH-WEST

4A STREET SOUTH-WEST

5650000

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 610 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm

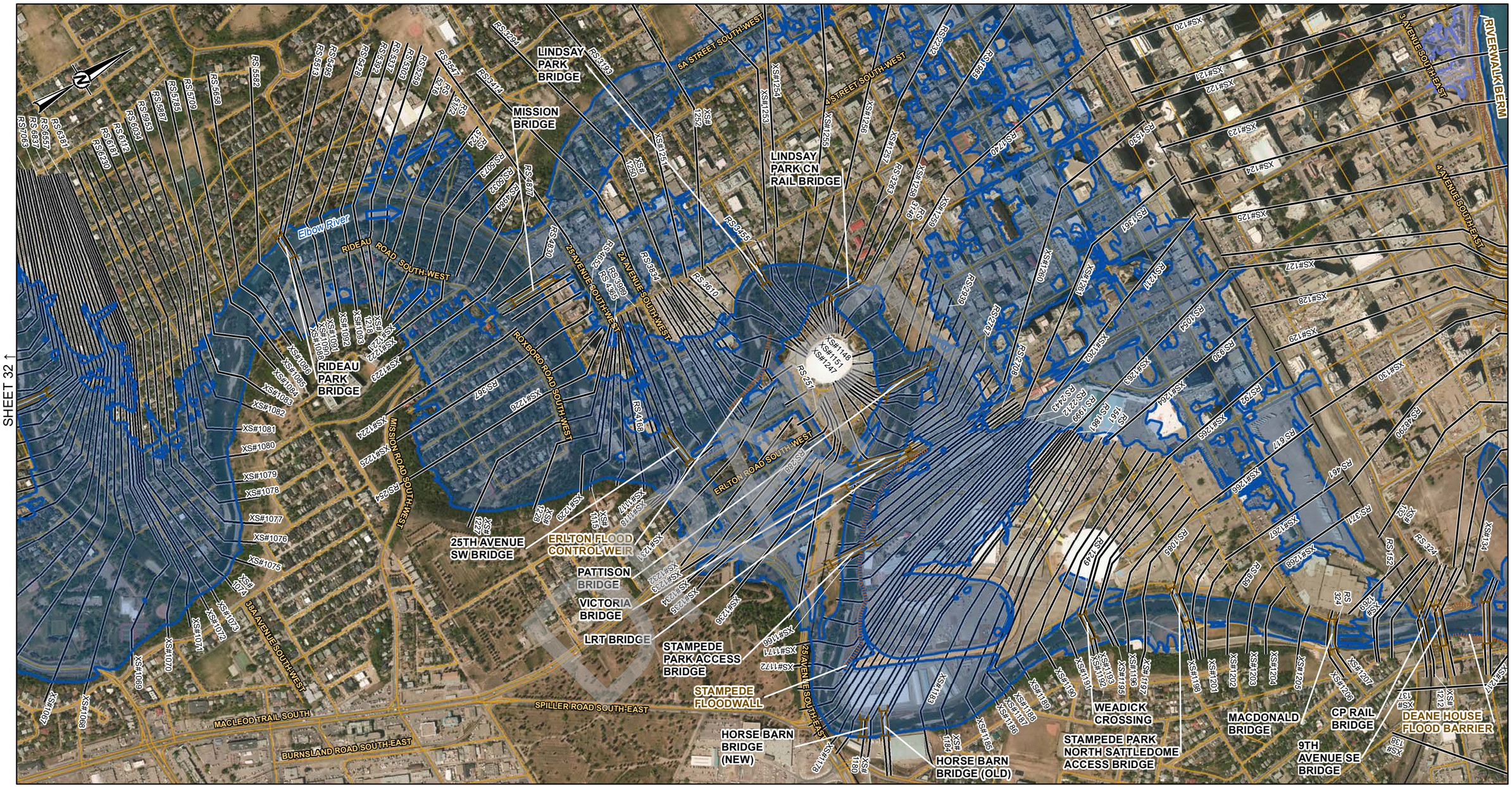
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i50yrInundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:14:51 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

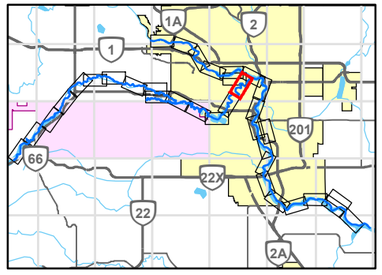
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 610 M^3/S
BOW RIVER BELOW ELBOW RIVER = 1860 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

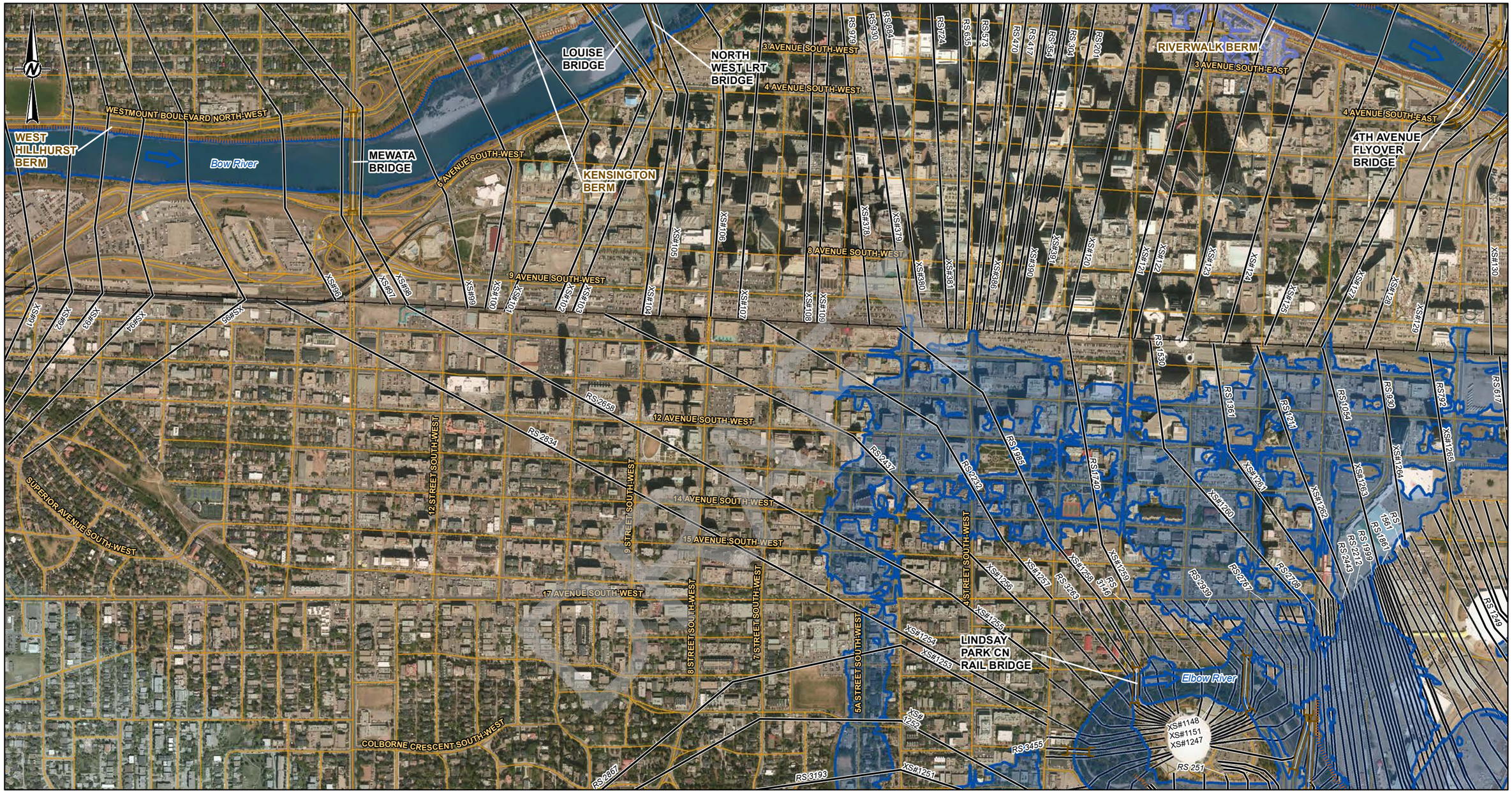
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:16:30 PM

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

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

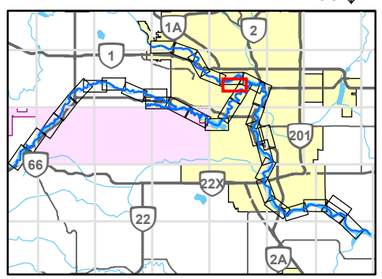
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

50-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1610 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 610 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
50-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i50yr-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:19:15 PM

Classification: Public

75-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

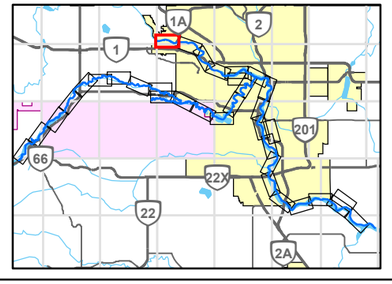
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_EBowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07Syr-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:53:49 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

Bow River

51 AVENUE NORTH-WEST

67 STREET NORTH-WEST

SILVERVIEW DRIVE NORTH-WEST

49 AVENUE NORTH-WEST

47 AVENUE NORTH-WEST

44 AVENUE NORTH-WEST

43 AVENUE NORTH-WEST

41 AVENUE NORTH-WEST

39 AVENUE NORTH-WEST

37 AVENUE NORTH-WEST

36 AVENUE NORTH-WEST

35 AVENUE NORTH-WEST

34 AVENUE NORTH-WEST

33 AVENUE NORTH-WEST

29 AVENUE NORTH-WEST

BOWGLEN ROAD NORTH-WEST

PALM WAY NORTH-WEST

APPLE WAY NORTH-WEST

WILLOW WAY NORTH-WEST

ASPEN WAY NORTH-WEST

CEDAR WAY NORTH-WEST

ASPEN DRIVE NORTH-WEST

88 STREET NORTH-WEST

86 STREET NORTH-WEST

85 STREET NORTH-WEST

83 STREET NORTH-WEST

81 STREET NORTH-WEST

80 STREET NORTH-WEST

79 STREET NORTH-WEST

75 STREET NORTH-WEST

72 STREET NORTH-WEST

70 STREET NORTH-WEST

69 STREET NORTH-WEST

RS 63720, RS 63573, RS 63493, RS 63162, RS 62954, RS 62740, RS 62477, RS 62153, RS 61879, RS 64212, RS 63795, RS 64410, RS 64528, RS 64557, RS 64750, RS 64915, RS 65103, RS 65266, RS 65467, RS 65667

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

201 1

LEGEND

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

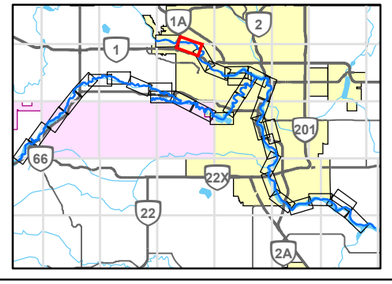
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:55:12 PM

LEGEND

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

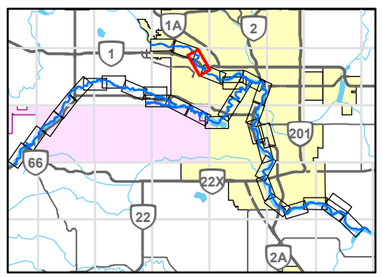
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:56:46 PM

Classification: Public

LEGEND

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

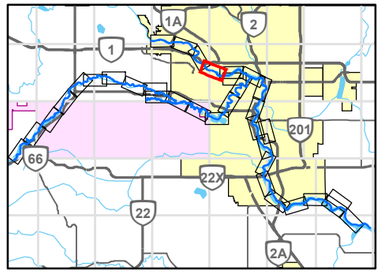
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

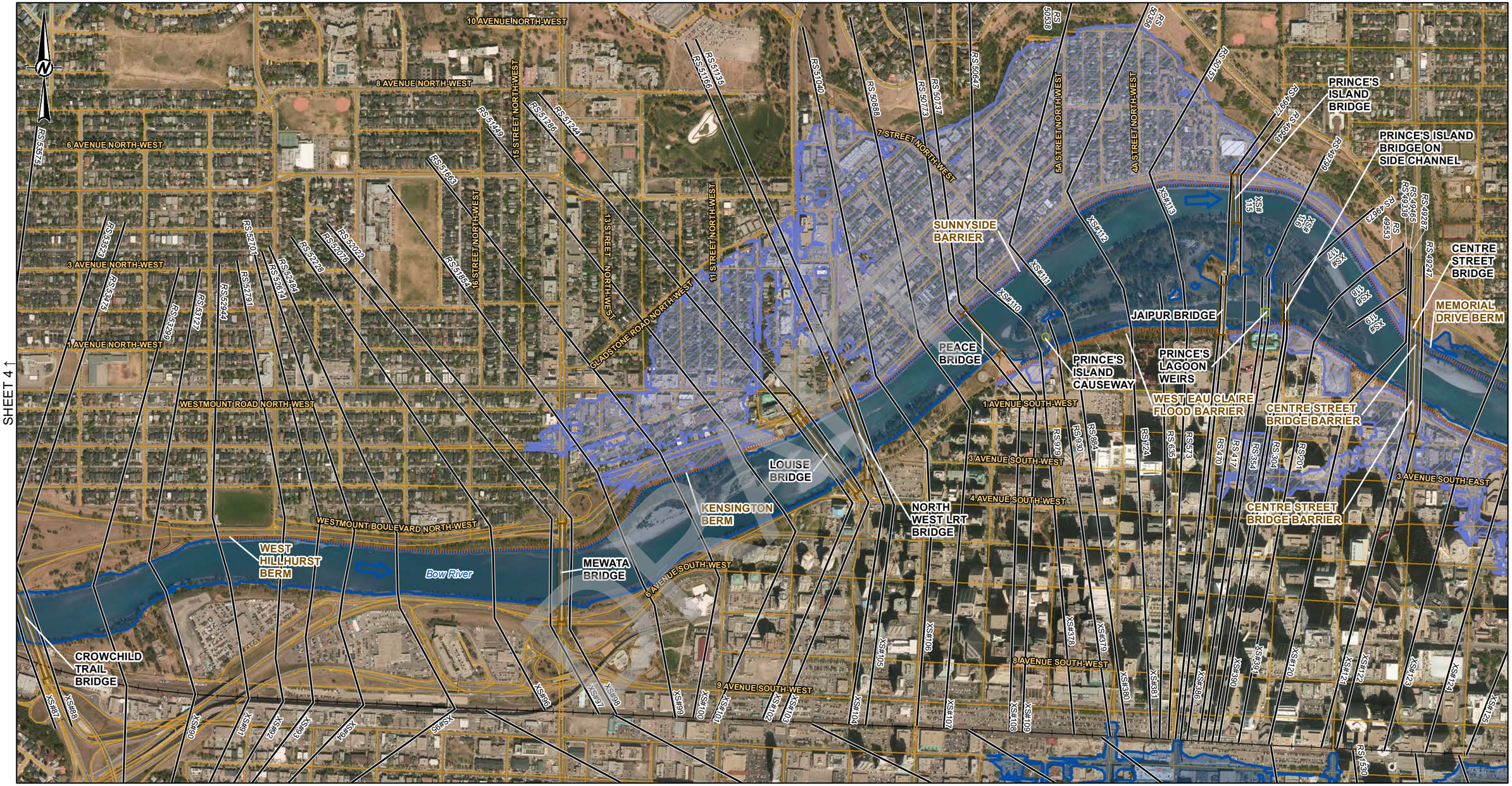
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

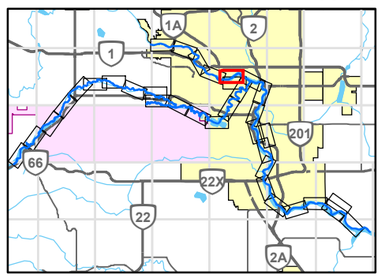
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:58:57 PM

Classification: Public



SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

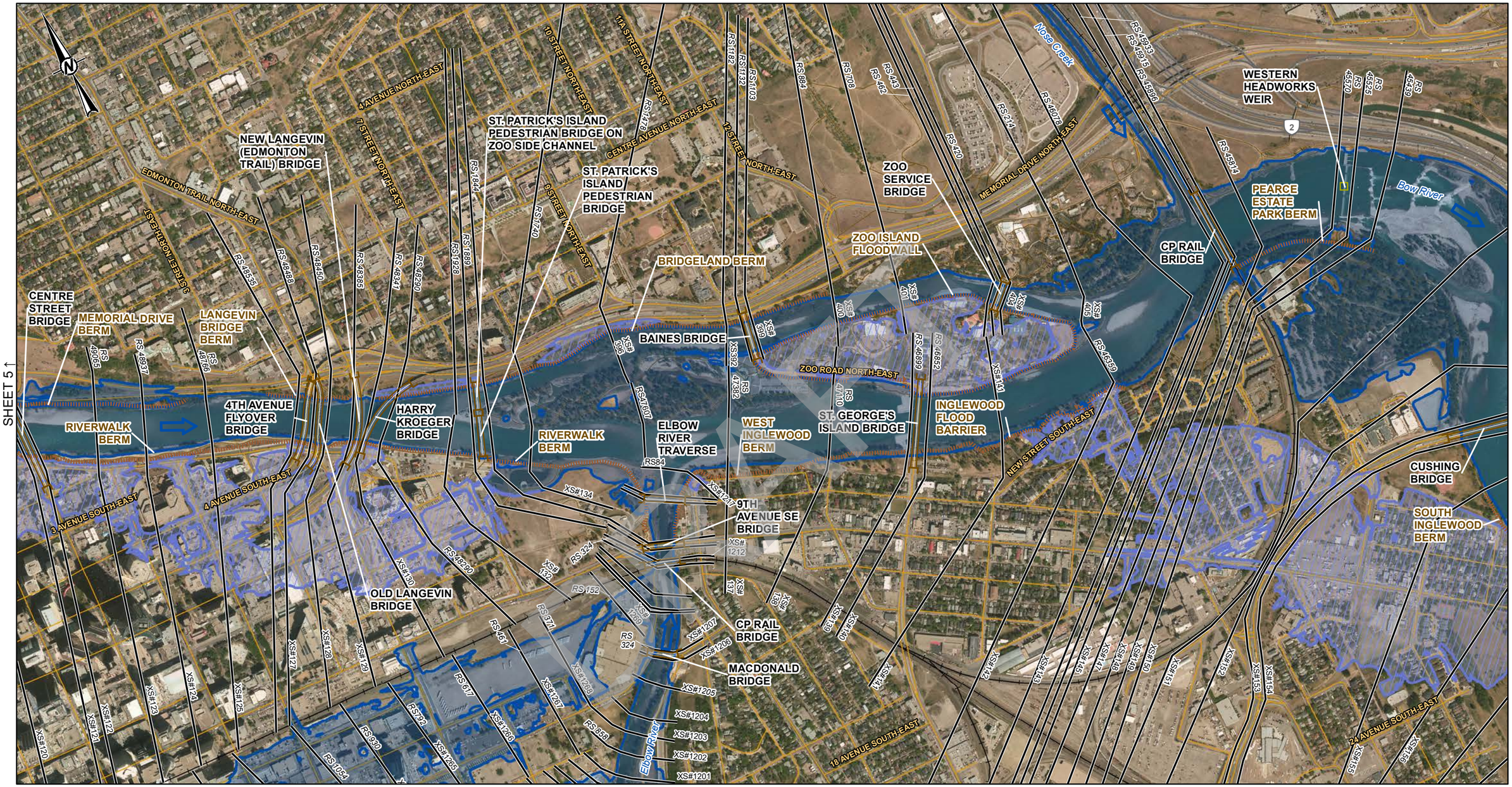
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:00:49 PM

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

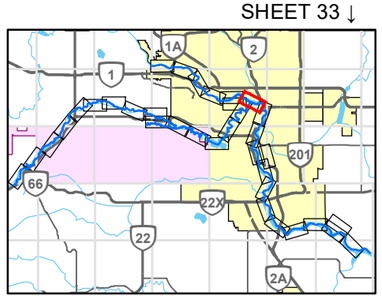
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 738 M^3/S
BOW RIVER BELOW ELBOW RIVER = 2150 M^3/S
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

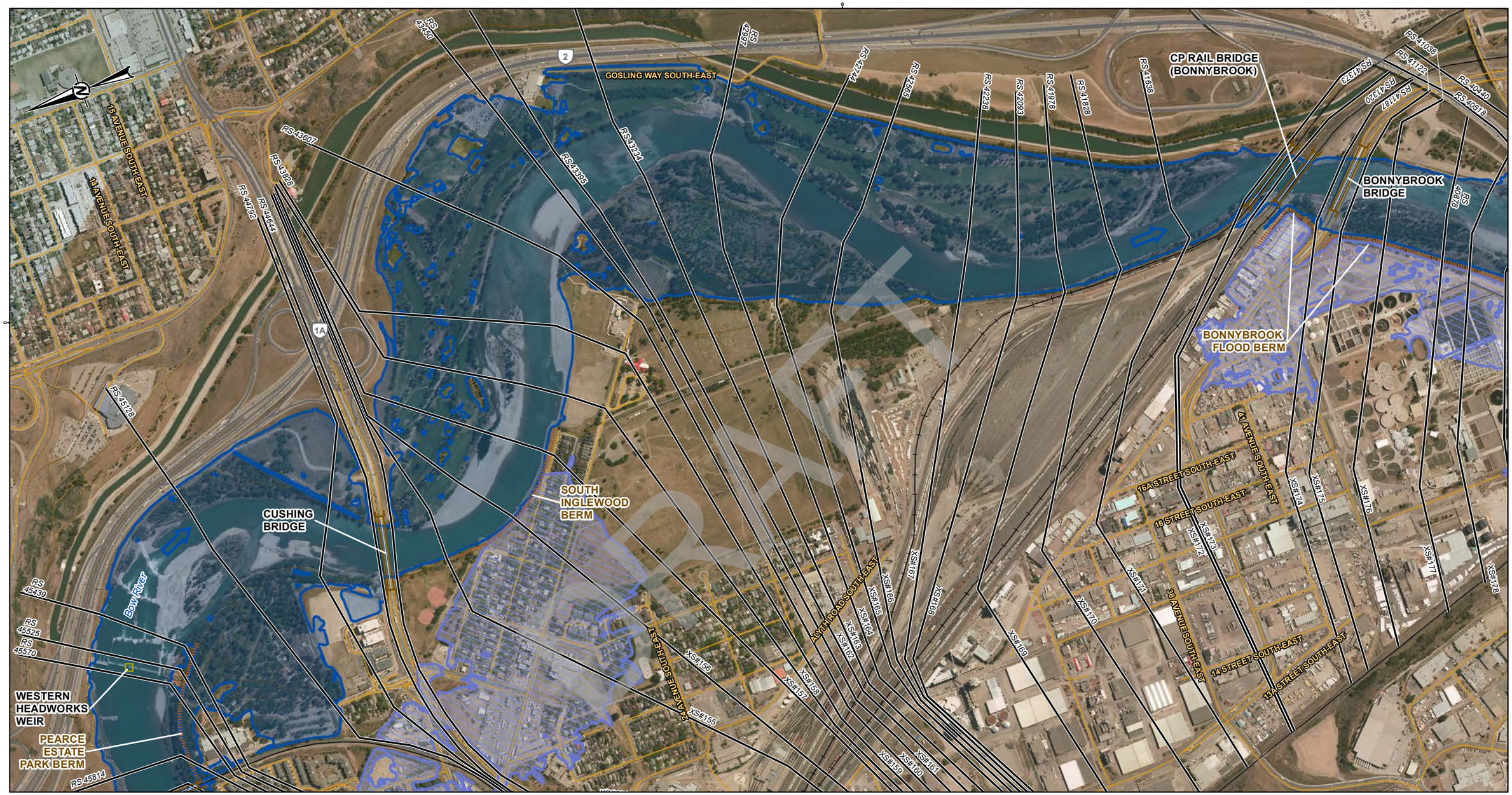
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075yr-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:02:35 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

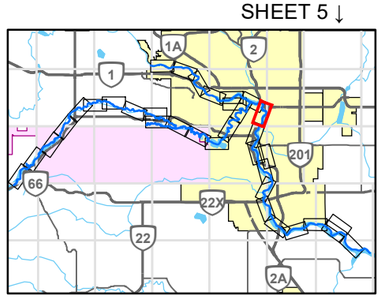
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

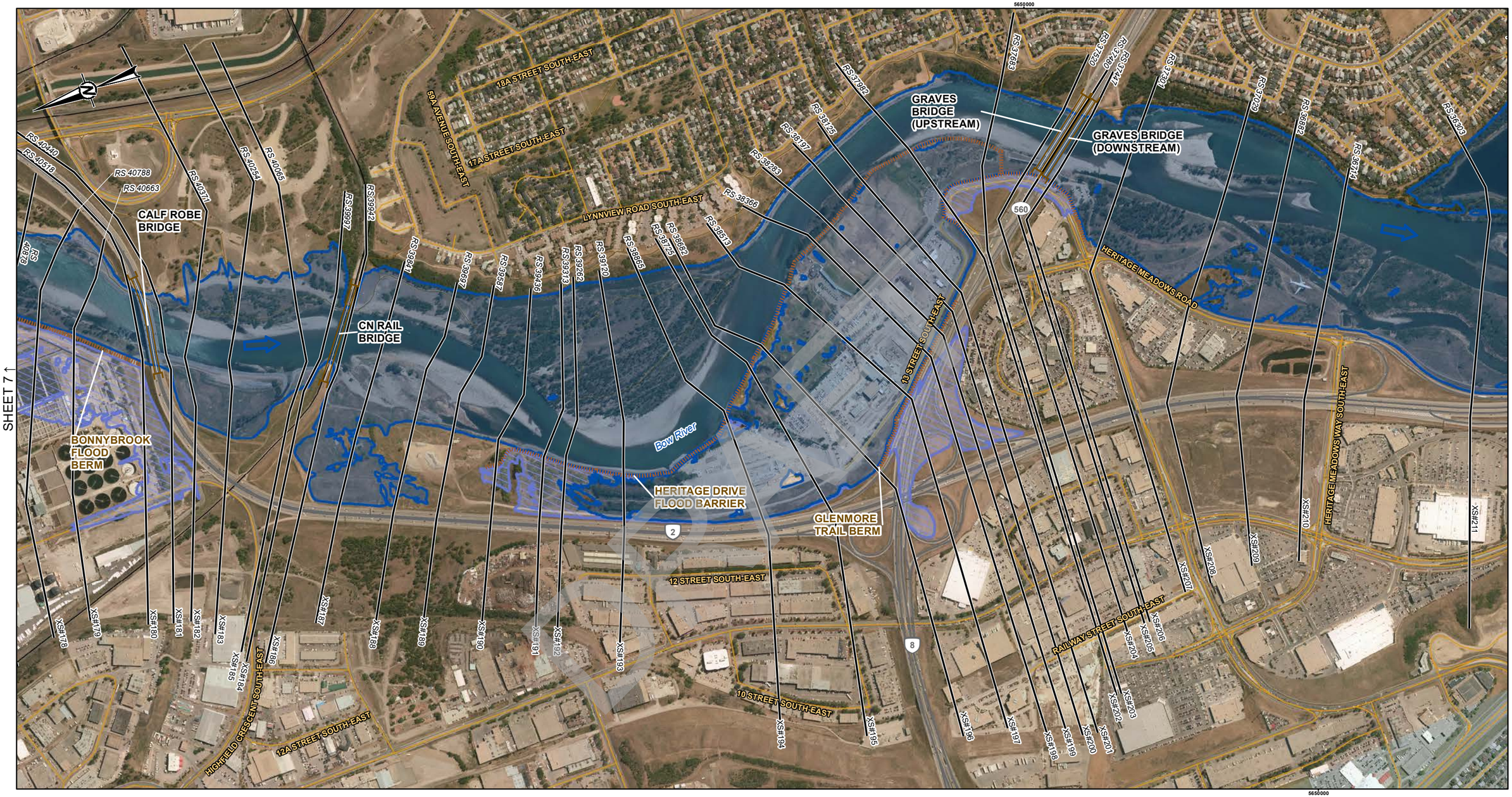
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:04:06 PM

Classification: Public



LEGEND

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

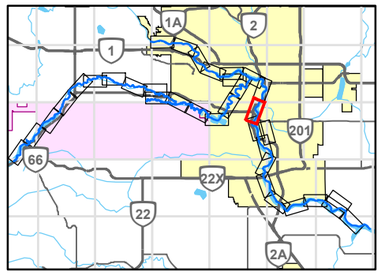
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075yrInundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:05:27 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

Bow River

18 STREET SOUTH-EAST

RIVERBEND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTH LANDSDOWNE STREET SOUTH-EAST

560

2

RS 37689
RS 37630
RS 37480
RS 37364
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35722
RS 35602
RS 35419
RS 35275
RS 35139
RS 34889
RS 34780
RS 34758
RS 34557

XS#10
XS#11
XS#12
XS#13
XS#14
XS#15
XS#16
XS#17
XS#18
XS#19
XS#20
XS#21
XS#22
XS#23
XS#24
XS#25
XS#26
XS#27
XS#28
XS#29
XS#30
XS#31
XS#32

DRAFT

LEGEND

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

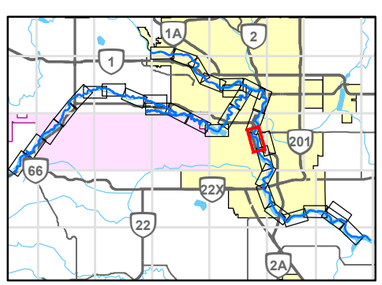
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 075-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:06:55 PM

Classification: Public

LEGEND

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

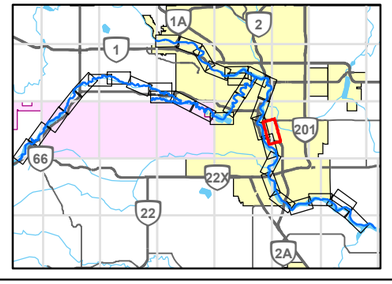
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:08:11 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

DRAFT

LEGEND

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

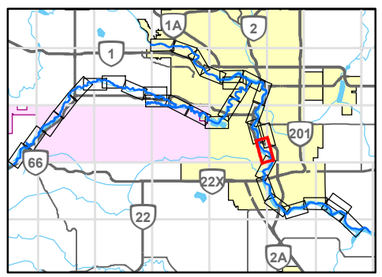
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

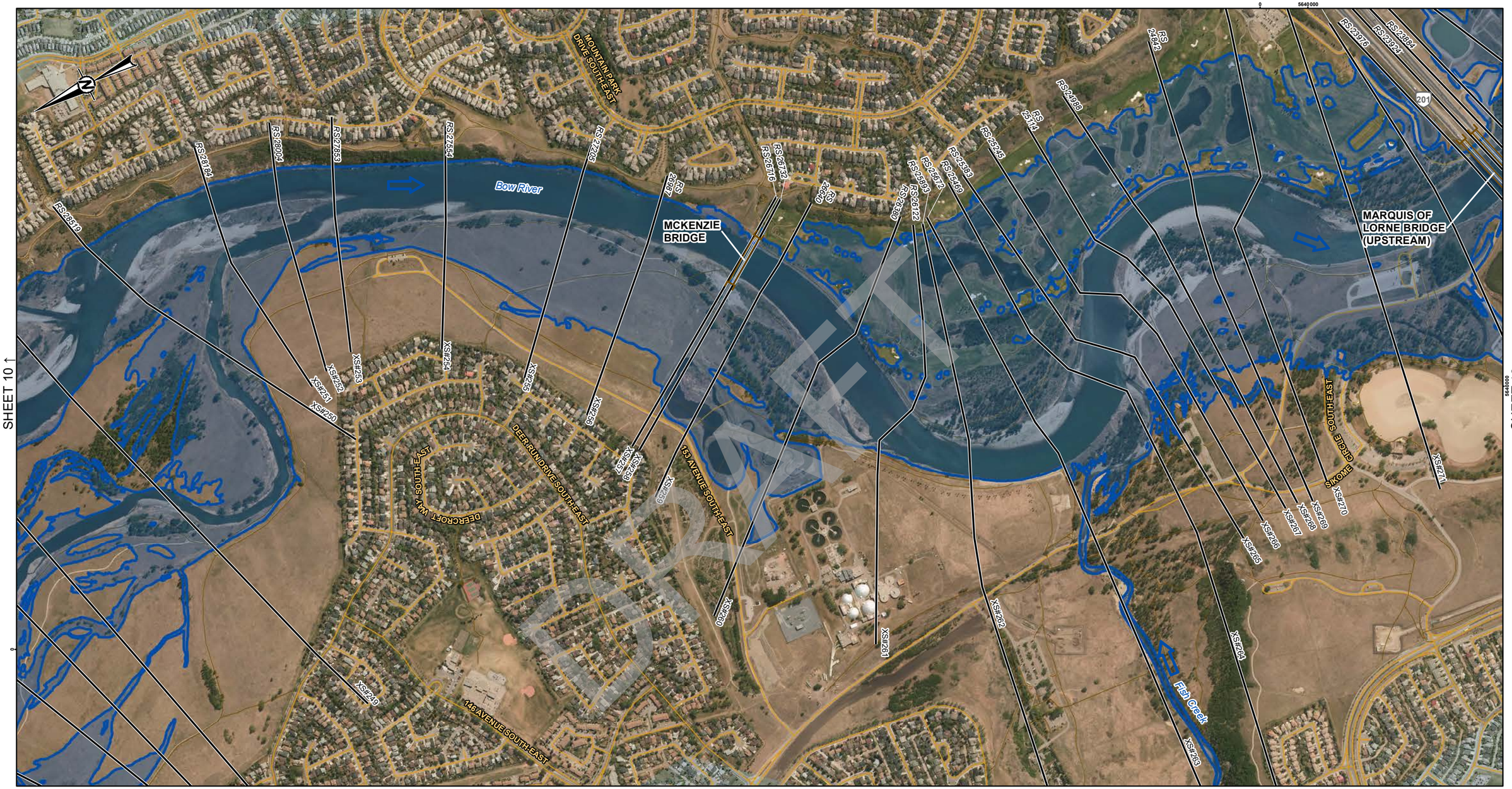
YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:09:35 PM



SHEET 10 ↑

SHEET 12 ↓

DRAFT

LEGEND

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

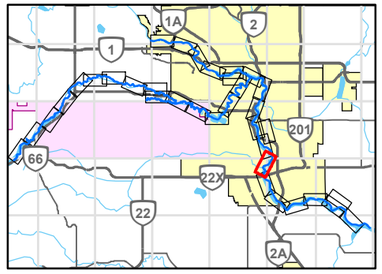
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2180 M^3/S
BOW RIVER BELOW FISH CREEK = 2310 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

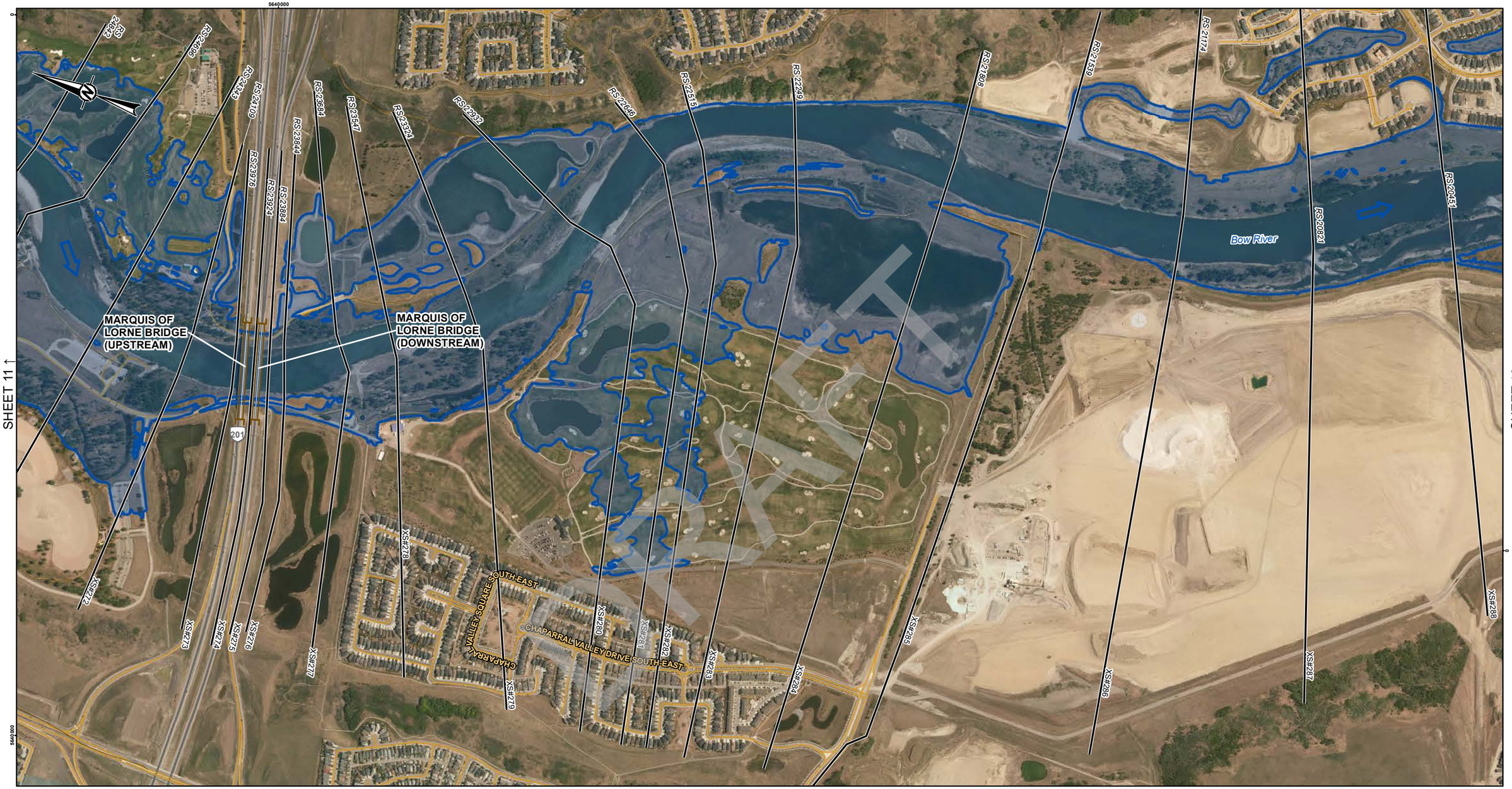
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:11:03 PM

Classification: Public



DRAFT

LEGEND

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

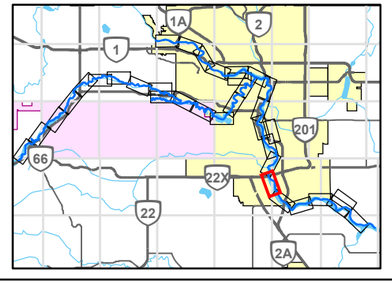
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 2310 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:12:15 PM

Classification: Public

DRAFT

LEGEND

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

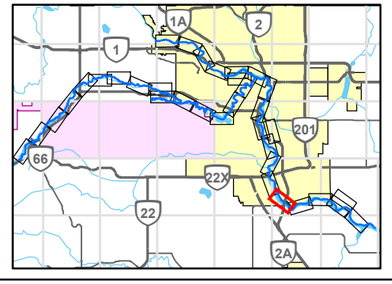
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 2310 M^3/S
BOW RIVER BELOW PINE CREEK = 2350 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

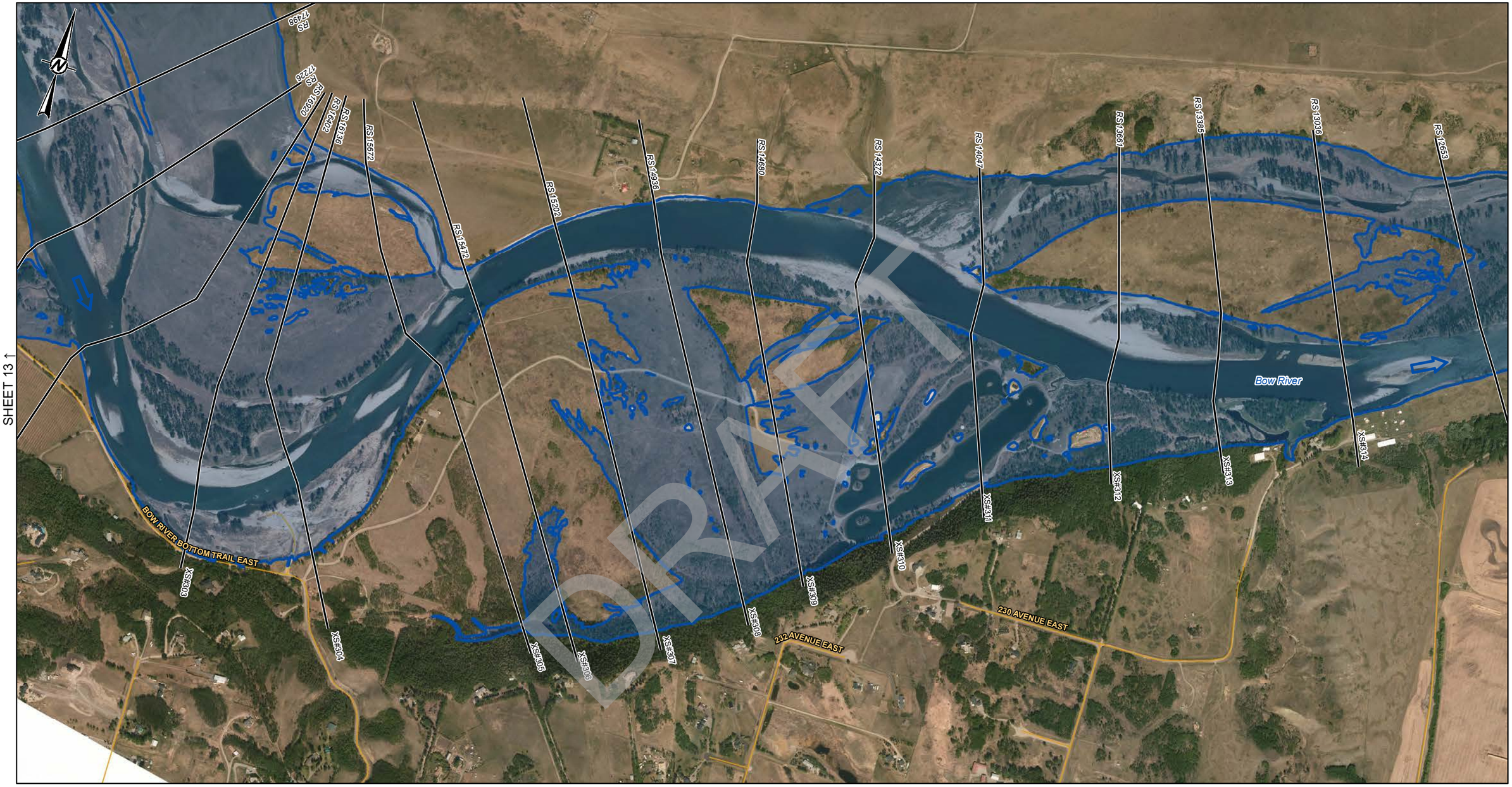
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 075y+Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:13:36 PM

Classification: Public



SHEET 13 ↑

SHEET 15 ↓

DRAFT

LEGEND

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

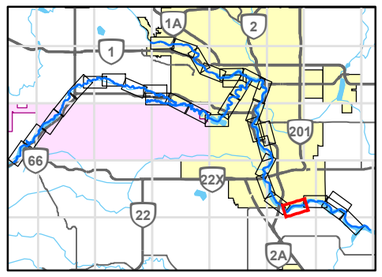
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2350 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

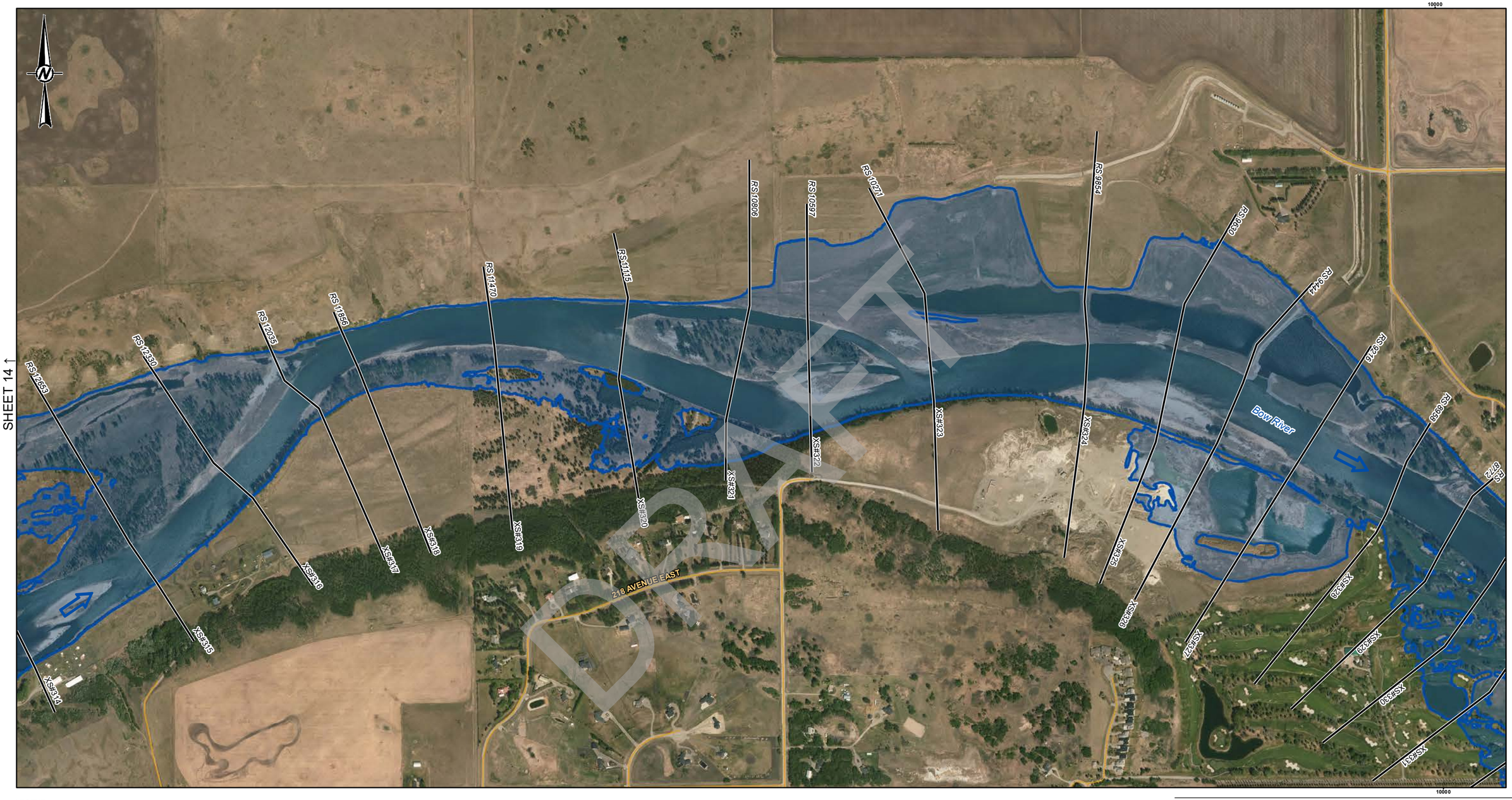
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:14:47 PM

Classification: Public



DRAFT

LEGEND

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

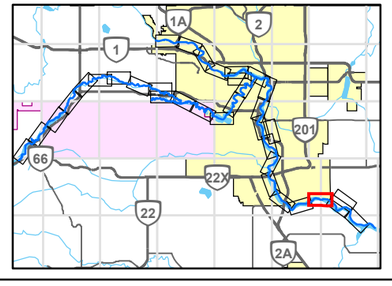
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2350 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 2380 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:16:07 PM

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

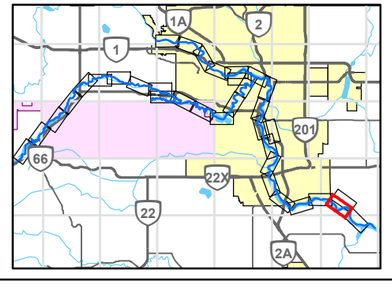
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2380 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

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

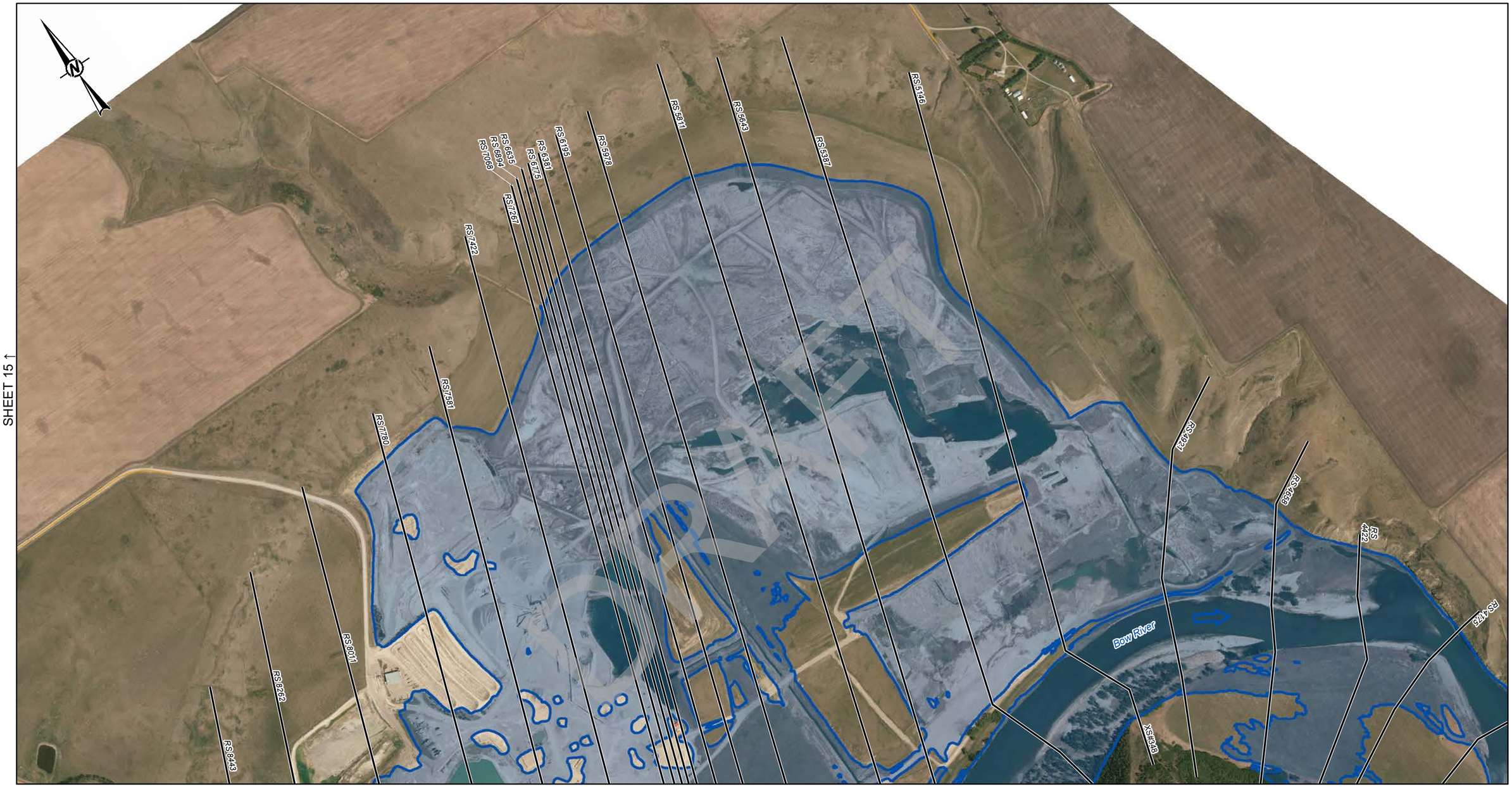
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:17:32 PM

DRAFT

Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓

LEGEND

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

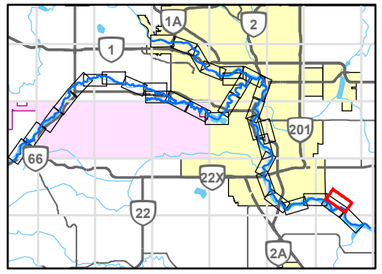
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2380 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07Sy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:18:41 PM

Classification: Public

LEGEND

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

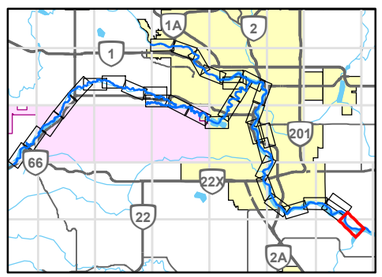
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2380 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:19:53 PM

Classification: Public

ELBOW RIVER
UPSTEAM MAPPING
BOUNDARY

WILD ROSE CAFE

TOWNSHIP ROAD 232

RANGE ROAD 51A

Elbow River

758

66

DRAFT

SHEET 20 →

LEGEND

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

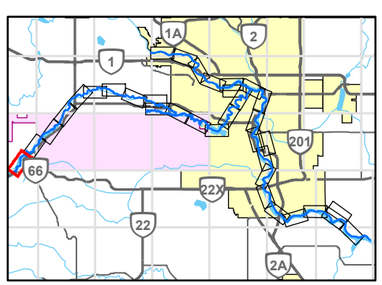
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

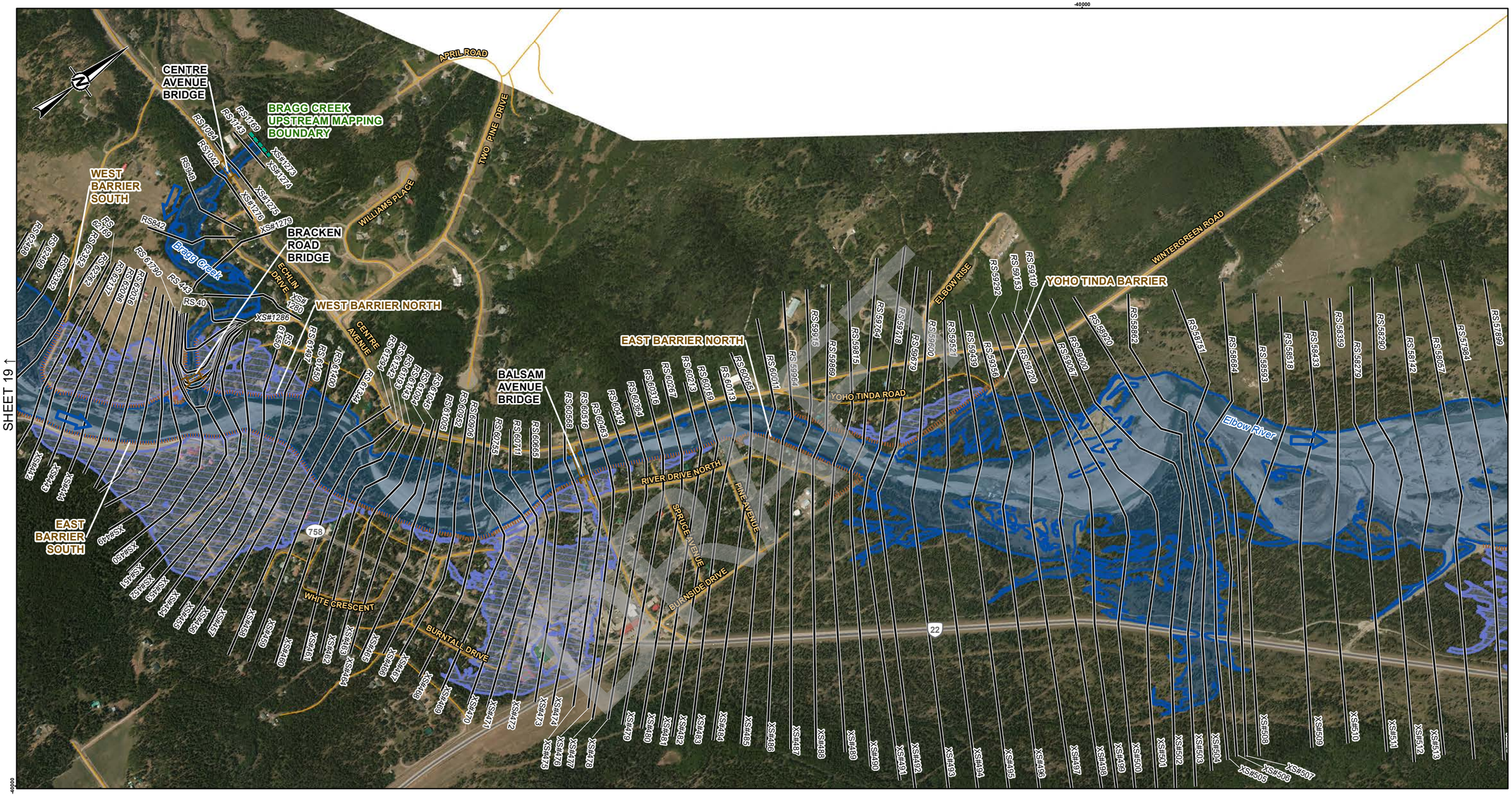
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:21:43 PM

Classification: Public



LEGEND

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

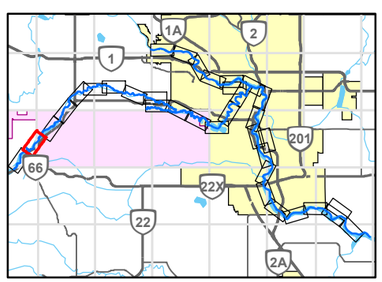
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S
BRAGG CREEK = 43.2 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

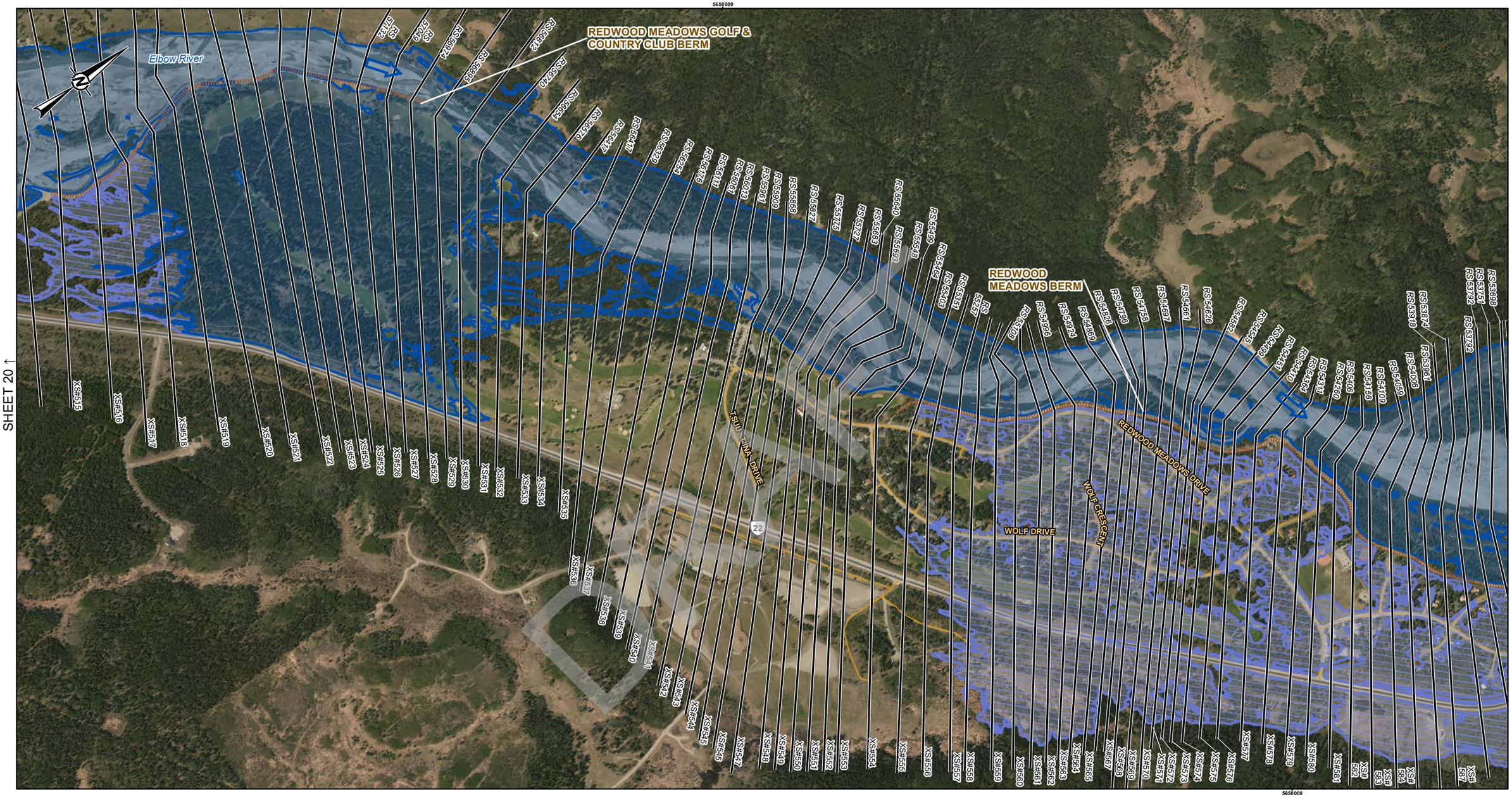
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 075-y-Inundation_ Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:23:21 PM

Classification: Public



LEGEND

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

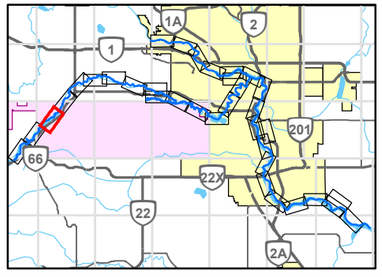
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

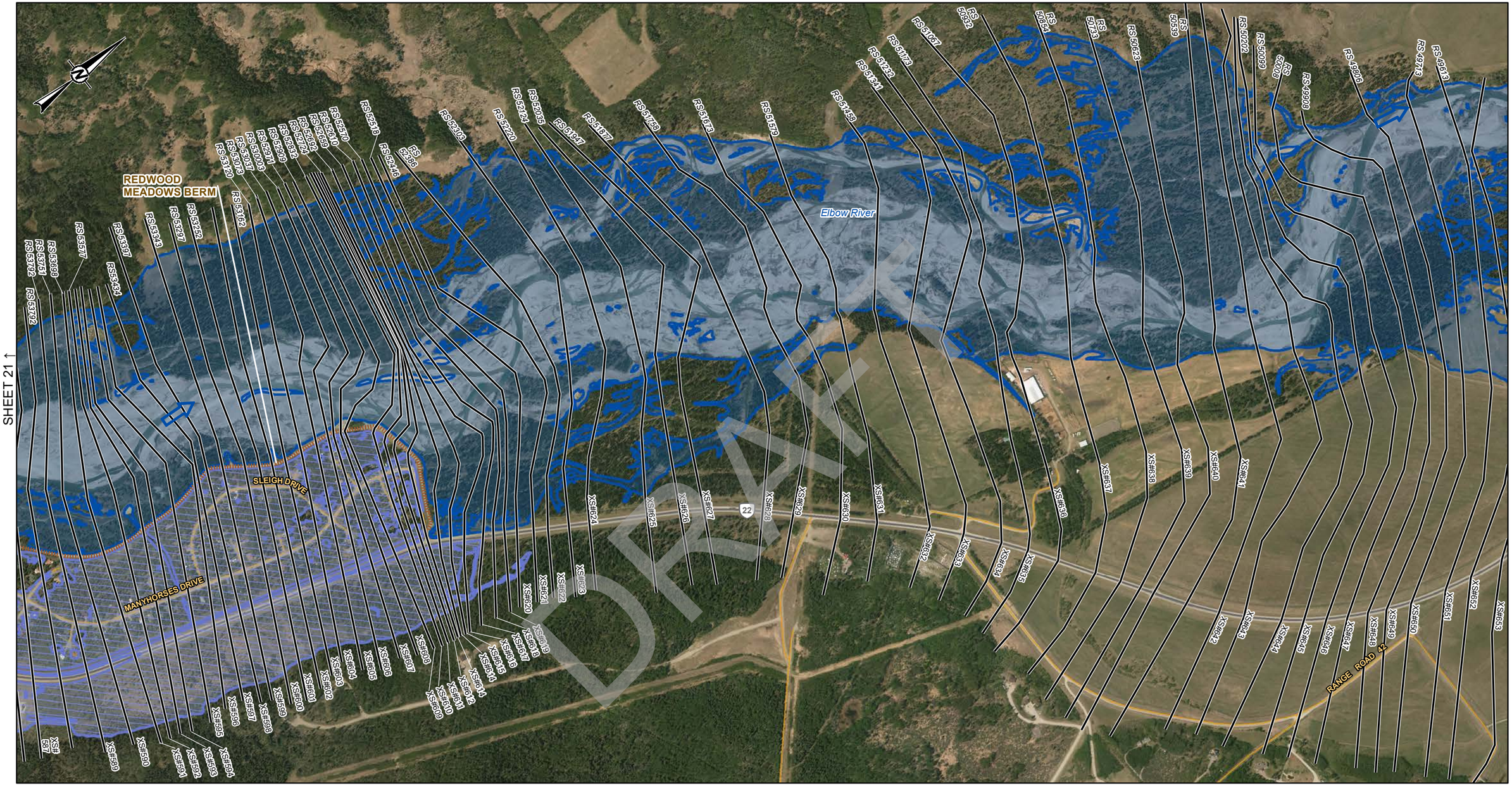
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_075-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:25:02 PM

Classification: Public



LEGEND

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

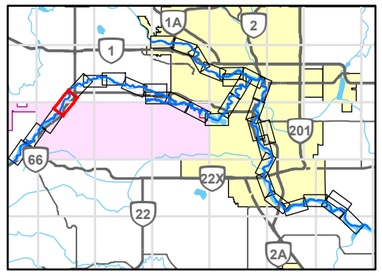
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

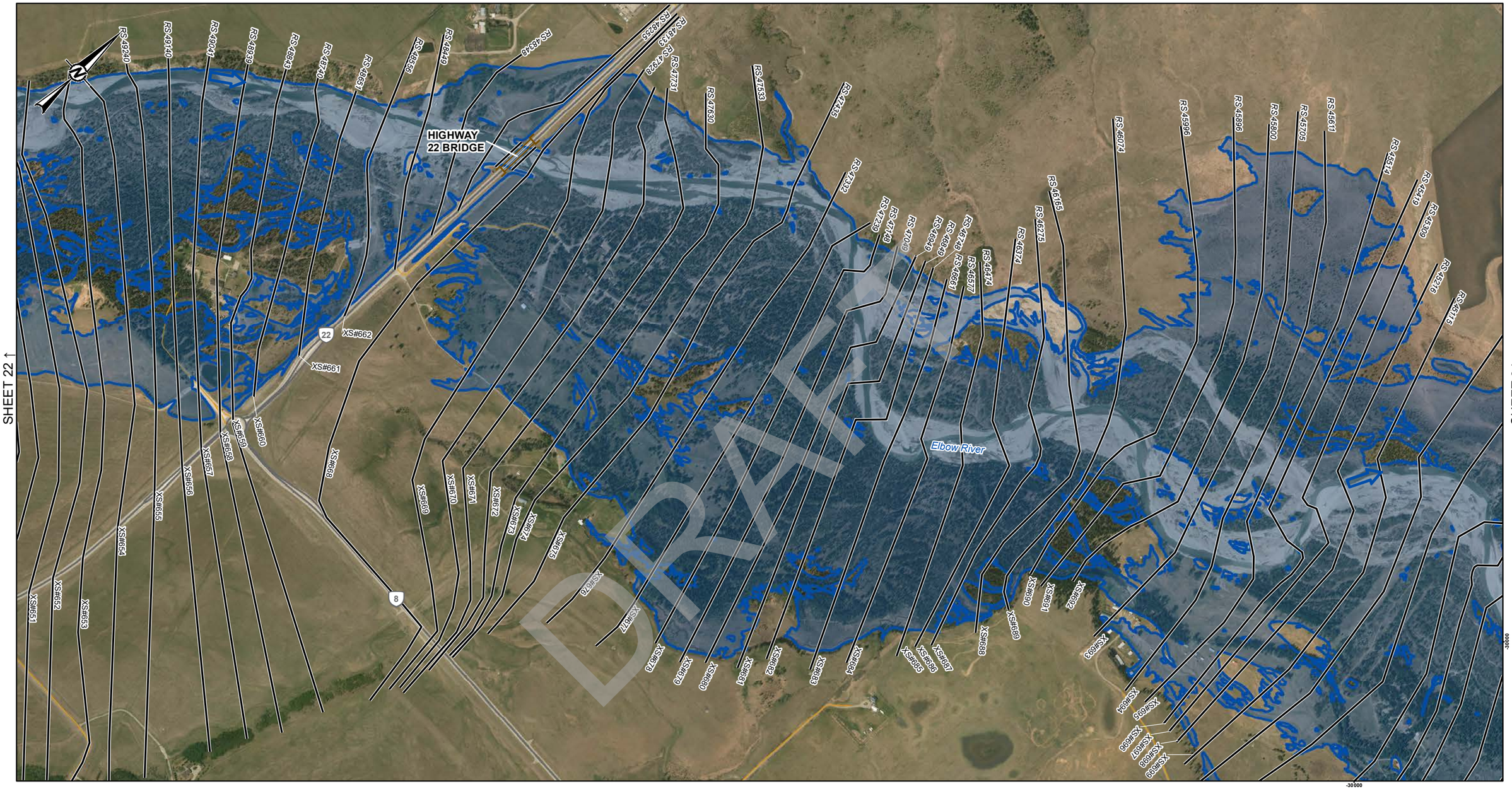
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:26:38 PM

Classification: Public



DRAFT

LEGEND

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

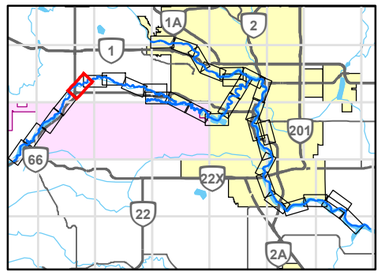
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:28:08 PM

Classification: Public

SHEET 23 ↑

SHEET 25 ↓

-30000

-30000

RS 45514 RS 45419 RS 45309 RS 45216 RS 45115 RS 45016 RS 44931 RS 44835 RS 44722 RS 44643 RS 44541 RS 44448 RS 44344 RS 44243 RS 44141 RS 43929 RS 43842 RS 43744 RS 43641 RS 43543 RS 43445 RS 43319 RS 43248 RS 43137 RS 43039 RS 42937 RS 42838 RS 42736 RS 42638 RS 42536 RS 42439 RS 42343

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 XS#713 XS#714 XS#715 XS#716 XS#717 XS#718 XS#719 XS#720 XS#721 XS#722 XS#723 XS#724 XS#725 XS#726 XS#727 XS#728 XS#729 XS#730 XS#731 XS#732 XS#733 XS#734 XS#735

Elbow River

DRAFT

LEGEND

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

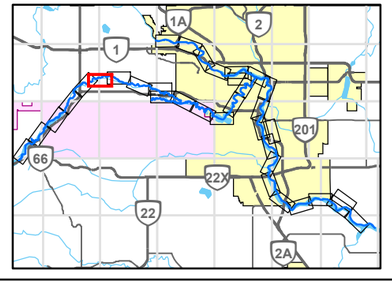
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

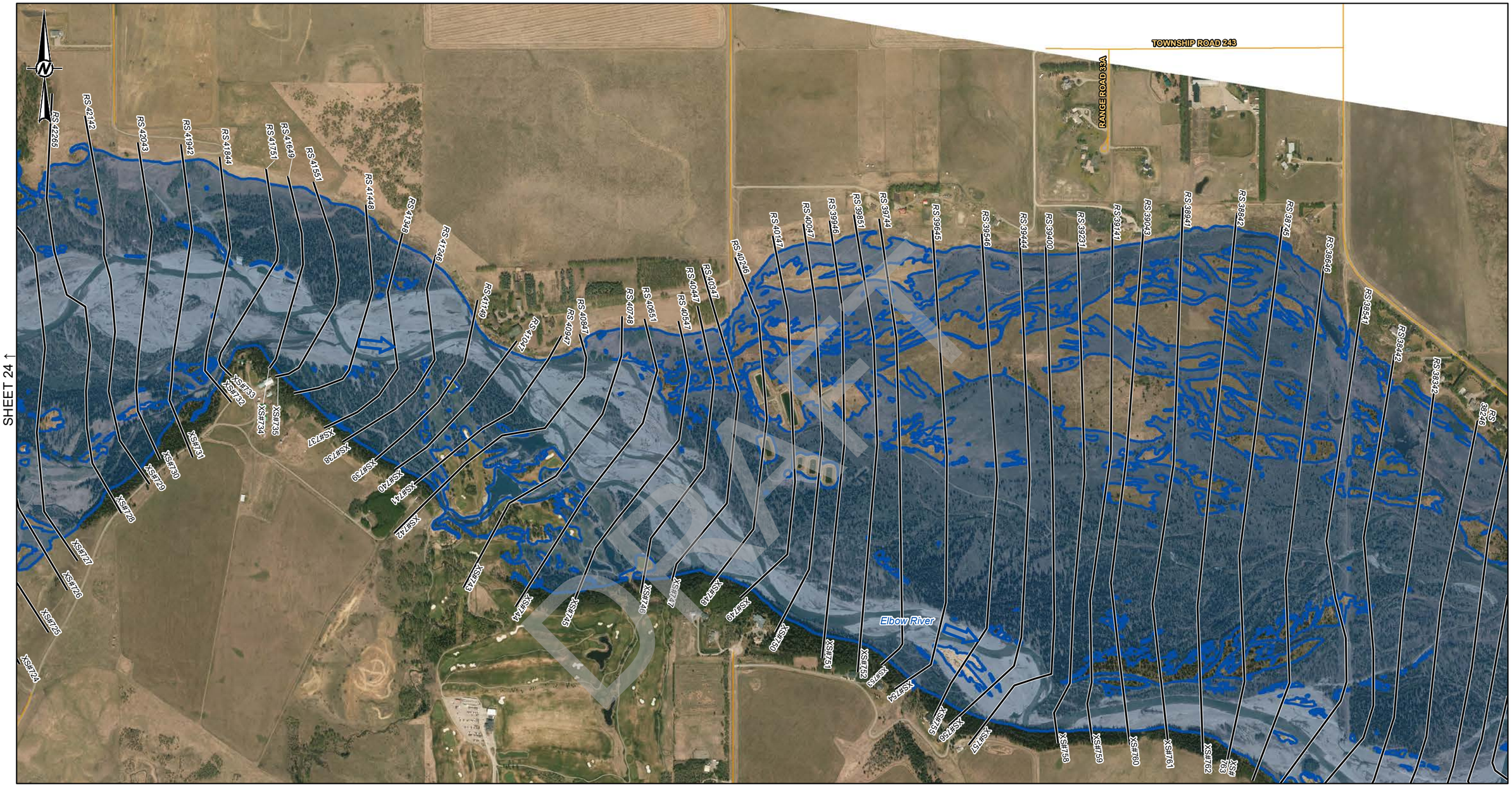
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:29:27 PM

Classification: Public



LEGEND

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

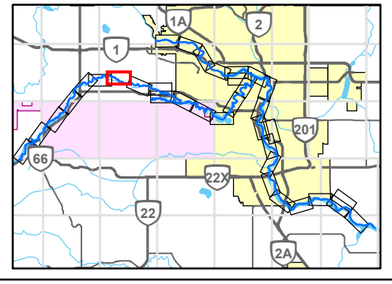
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

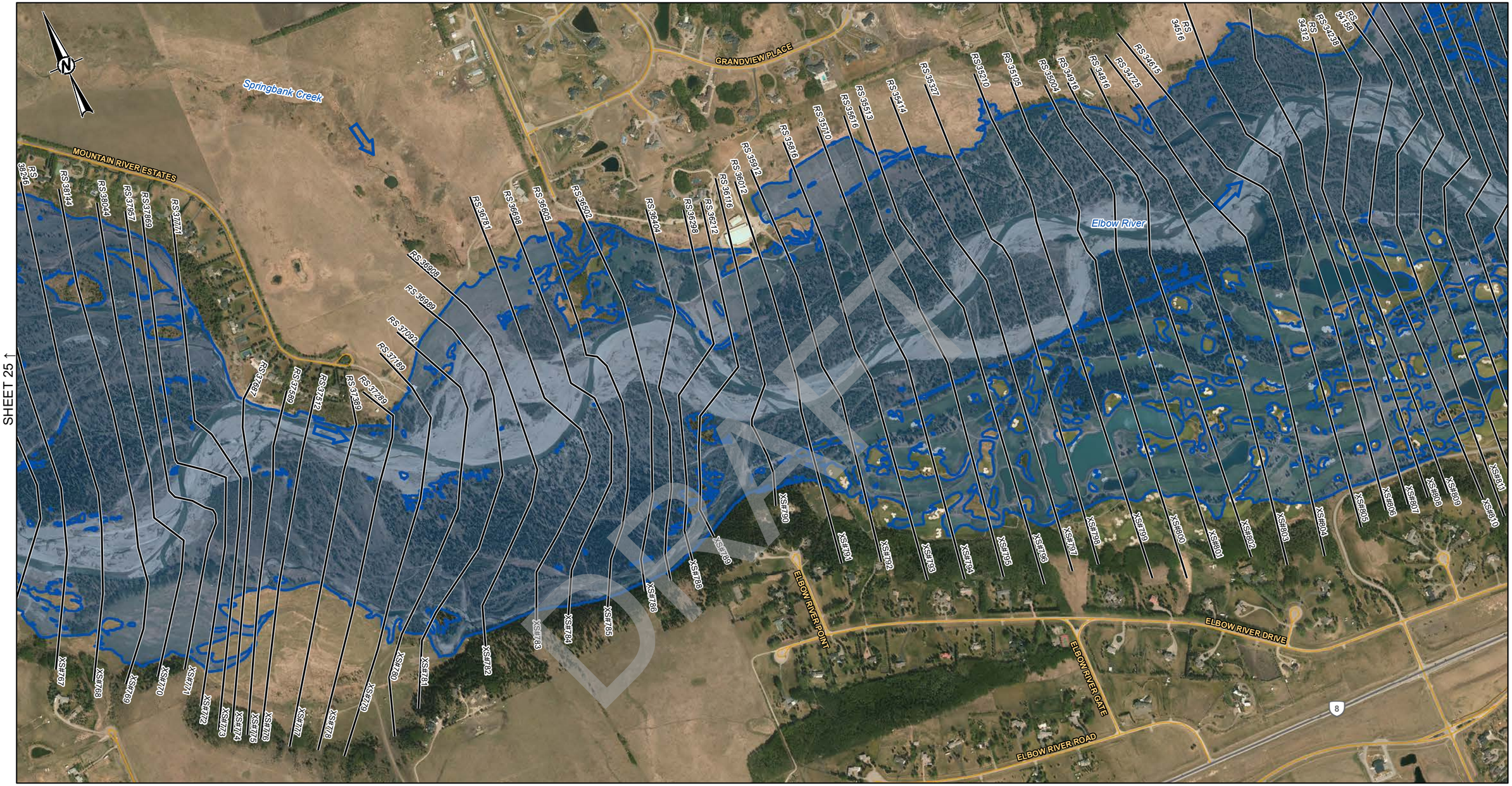
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:30:37 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

DRAFT

LEGEND

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

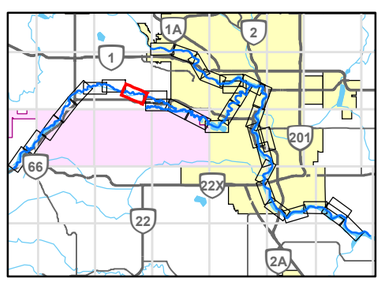
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 736 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

25mm

0

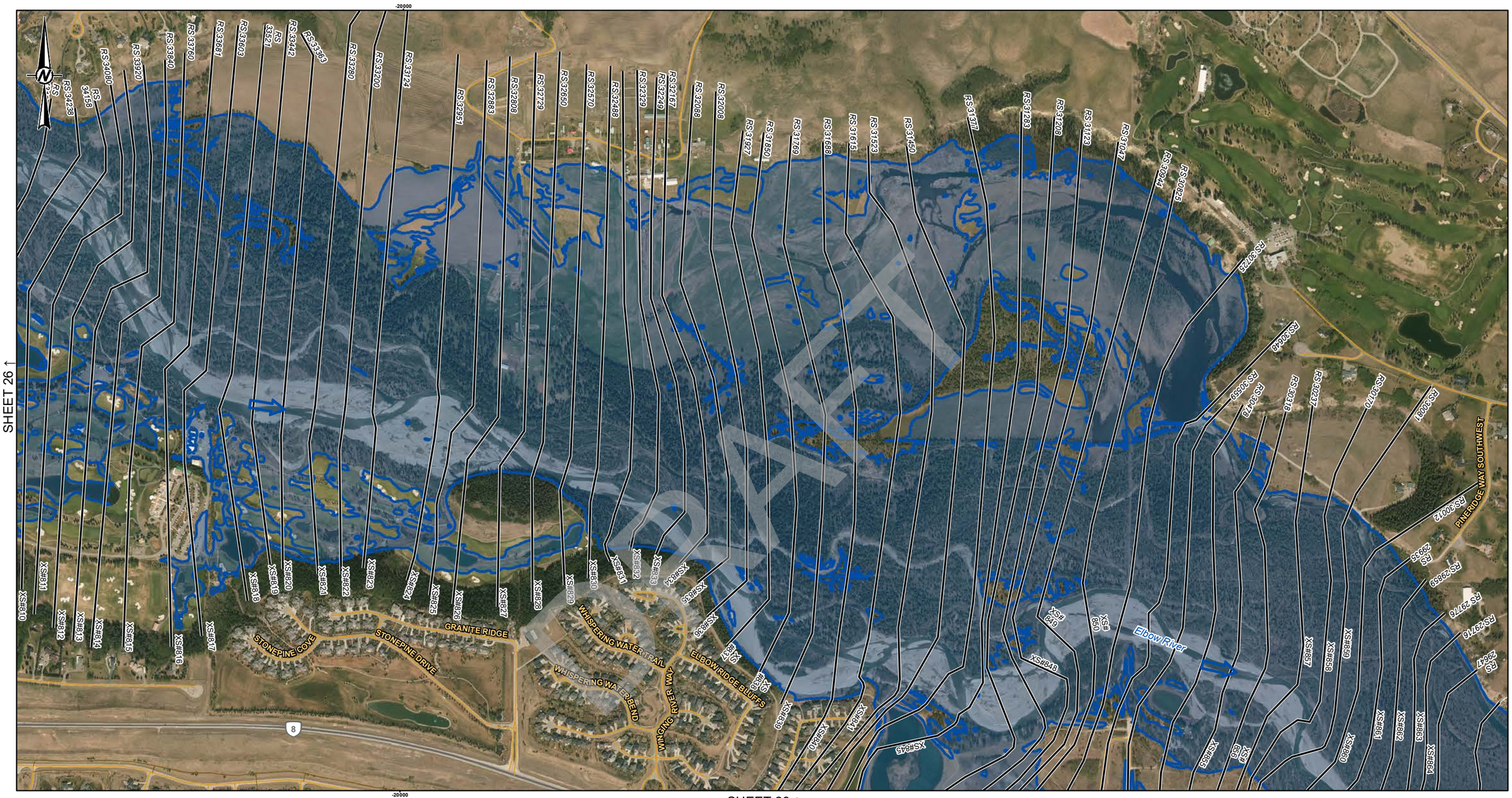
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075yrInundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:32:06 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

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

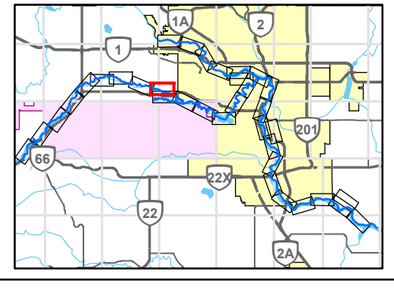
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S
LOTT CREEK = 28.1 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

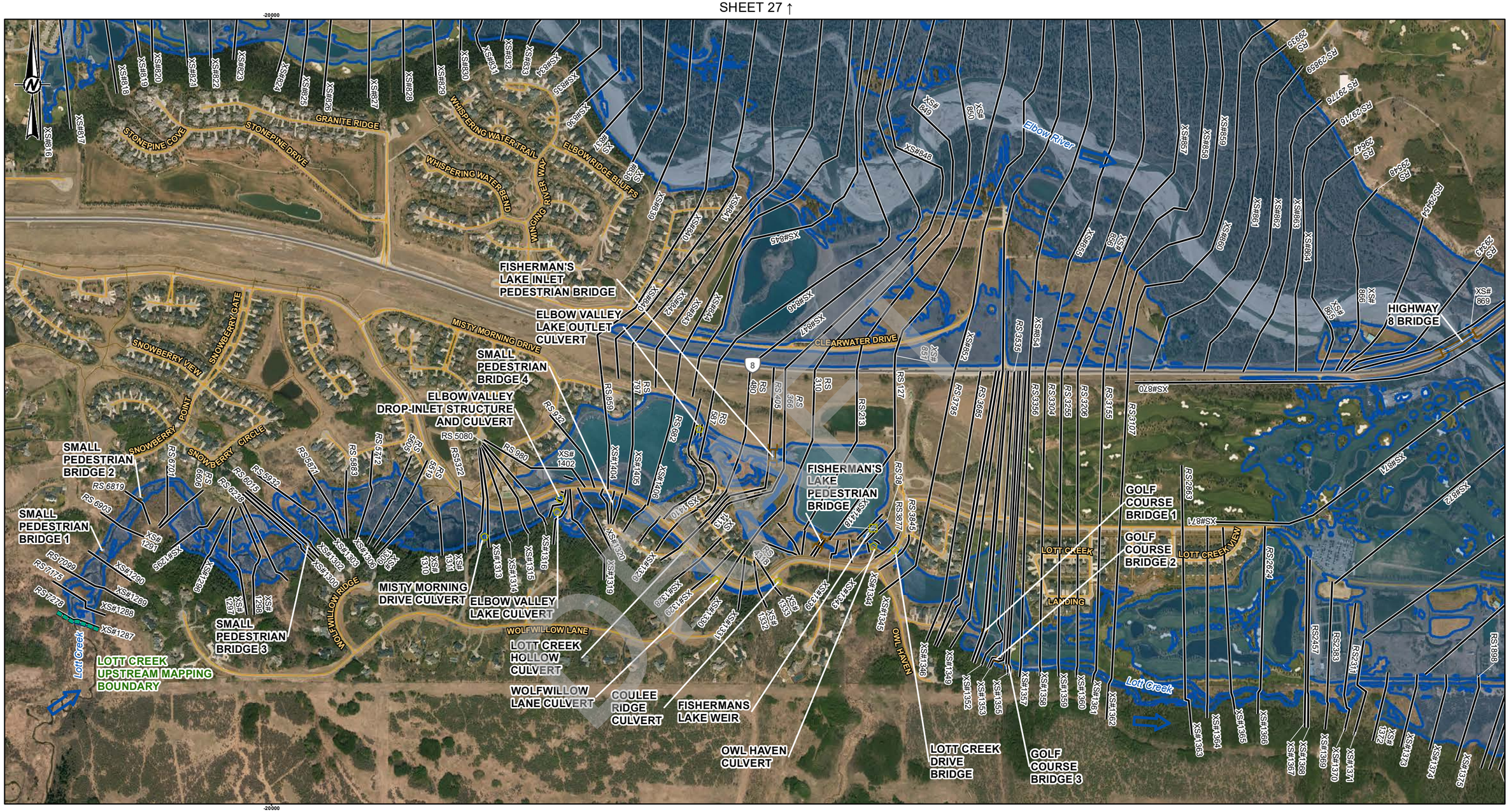
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:34:06 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

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

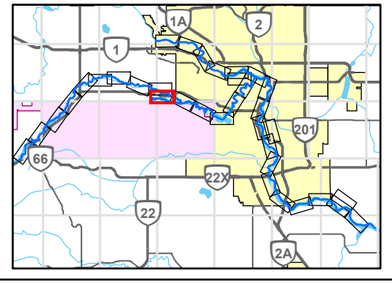
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S
LOTT CREEK = 28.1 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:36:10 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

Elbow River

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

RS 65

RS 704

RS 1502

RS 1699

RS 1688

RS 2457

RS 2933

RS 2611

RS 2680

RS 2664

RS 2497

RS 2369

RS 2638

RS 2811

RS 2787

RS 2771

RS 2754

RS 2738

RS 2722

RS 2706

RS 2690

RS 2672

RS 2630

RS 2619

RS 2603

RS 2588

RS 2572

RS 2556

RS 2544

RS 2537

RS 2523

RS 2507

RS 2490

RS 2474

RS 2458

RS 2441

RS 2427

RS 2414

RS 2399

RS 2383

RS 2369

RS 2343

RS 2327

RS 2311

RS 2297

RS 2283

RS 2268

RS 2252

RS 2236

RS 2223

RS 2207

RS 2191

RS 2176

RS 2160

RS 2144

RS 2128

RS 2113

RS 2097

RS 2081

RS 2066

RS 2049

XS#679

XS#680

XS#682

XS#683

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#1372

XS#1373

XS#1374

XS#1375

XS#1376

XS#1378

XS#1379

XS#1380

XS#1381

XS#1382

XS#1383

XS#1384

XS#1385

XS#1386

XS#1387

XS#1388

XS#1389

XS#1390

XS#1391

XS#1392

XS#1393

XS#1394

XS#1395

XS#1396

XS#1397

XS#1398

XS#1399

XS#1400

XS#1401

XS#1402

XS#1403

XS#1404

XS#1405

XS#1406

XS#1407

XS#1408

LEGEND

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

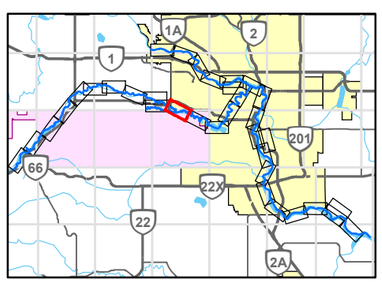
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S
LOTT CREEK = 28.1 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:38:43 PM

Classification: Public

SHEET 29 ↑

SHEET 31 ↓

-10000

5650000

8684000

-10000

RS 24049 RS 23938 RS 23739 RS 23509 XS#908 XS#907 XS#909 XS#910 XS#911 XS#912 XS#913 XS#914 XS#915 XS#916 XS#917 XS#918 XS#919 XS#920 XS#921 XS#922 XS#923 XS#924 XS#925 XS#926 XS#927 XS#928 XS#929 XS#930 XS#931 XS#932 XS#933 XS#934 XS#935 XS#936 XS#937 XS#938 XS#939 XS#940 XS#941 XS#942 XS#943 XS#944 XS#945 XS#946 XS#947 XS#948 XS#949 XS#950 XS#951 XS#952 XS#953 XS#954 RS 23360 RS 23242 RS 23121 RS 23001 RS 22768 RS 22705 RS 21953 RS 21842 RS 21709 RS 21560 RS 21434 RS 21261 RS 21119 RS 20971 RS 20860 RS 20714 RS 20522 RS 19953 RS 19761 RS 19603 RS 19701 RS 19237 RS 19232 RS 19089 RS 18926 RS 18777 RS 18659 RS 18475 RS 18361 RS 18060

GREY EAGLE DRIVE BRIDGE

WEASELHEAD GLENMORE PATHWAY

Elbow River

DRAFT

LEGEND

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

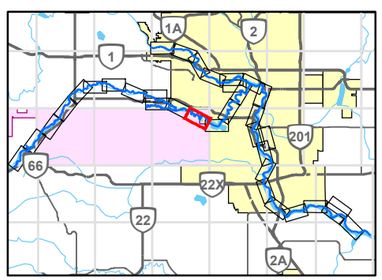
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

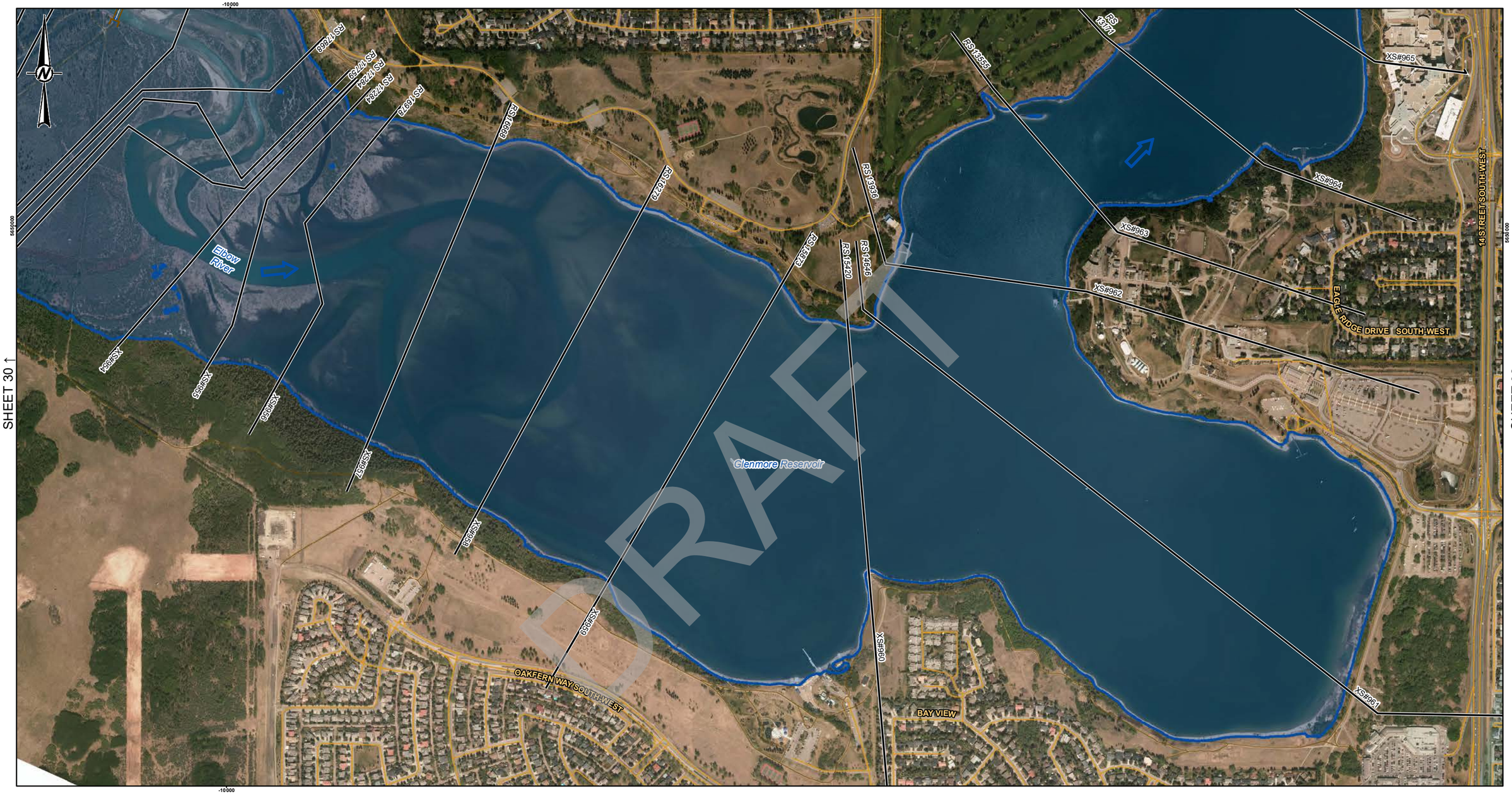
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:41:17 PM

Classification: Public



LEGEND

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

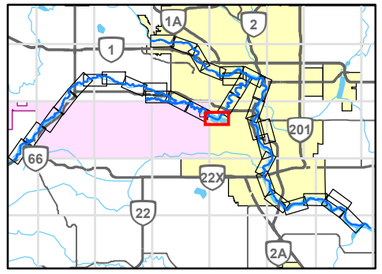
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 738 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

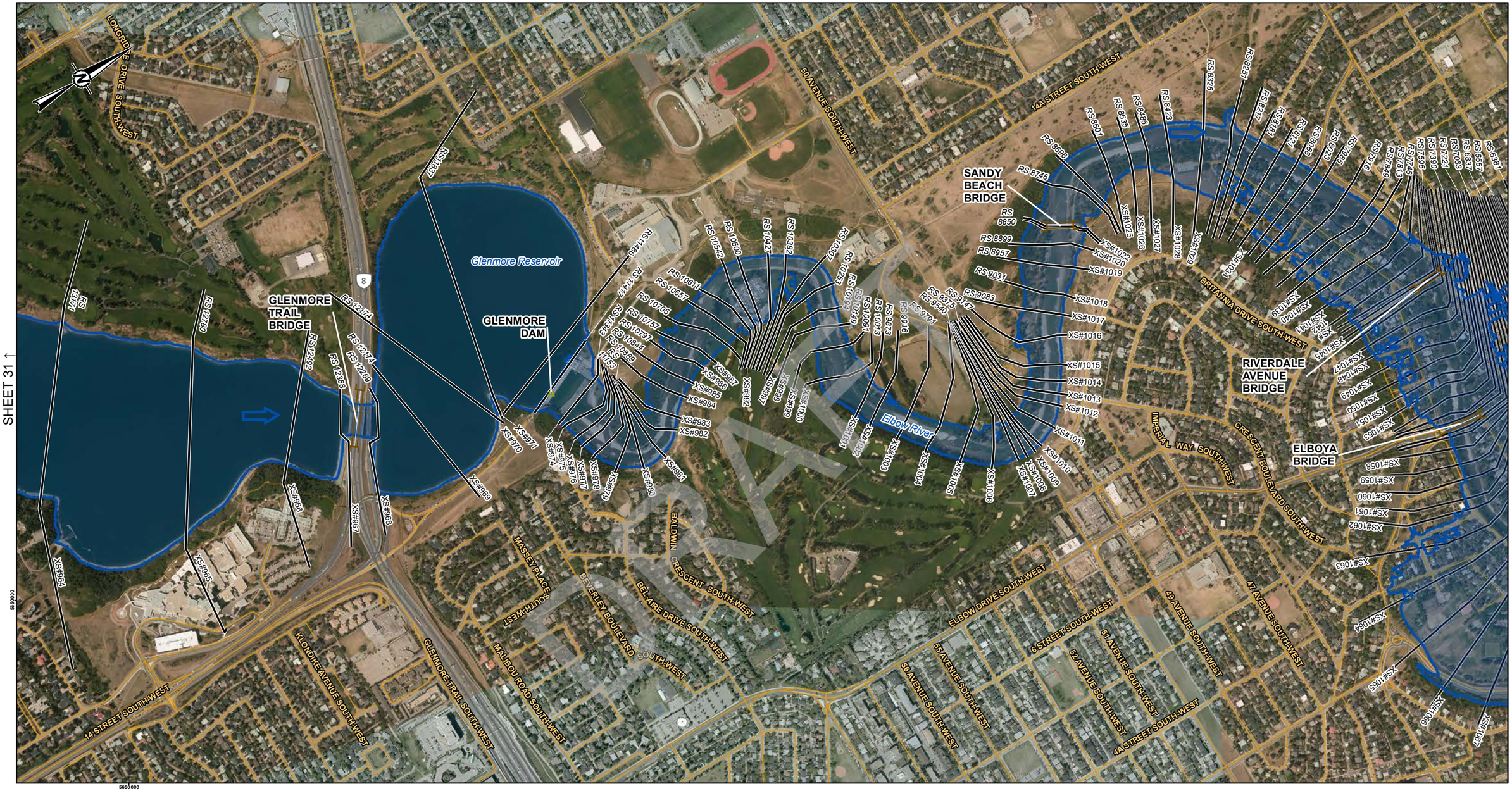
TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07Sy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:43:29 PM

Classification: Public



LEGEND

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

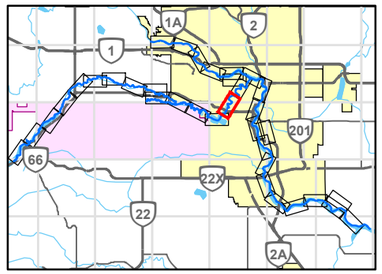
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 738 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

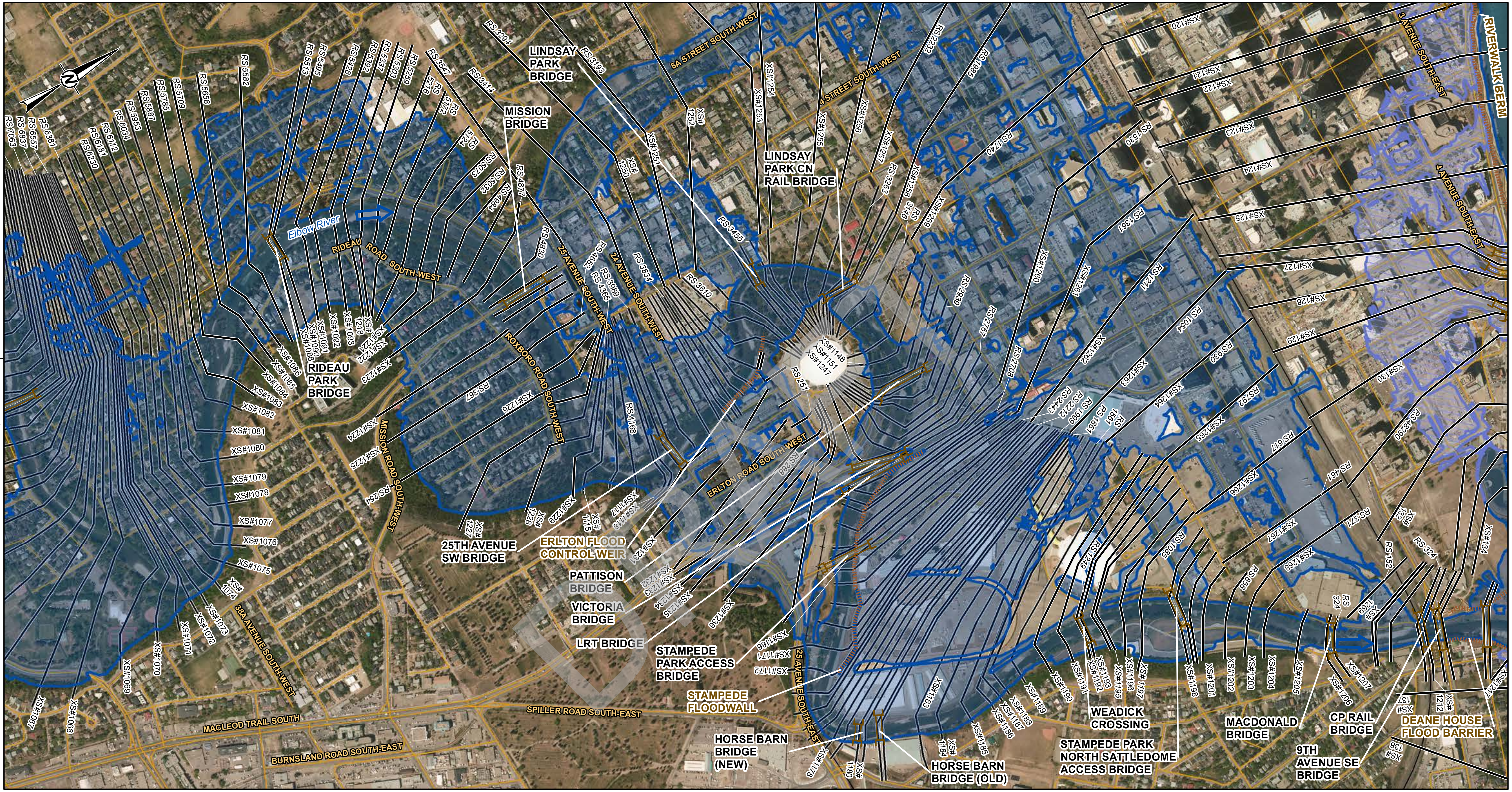
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ (075)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:46:03 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑



SHEET 9 ↓

LEGEND

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

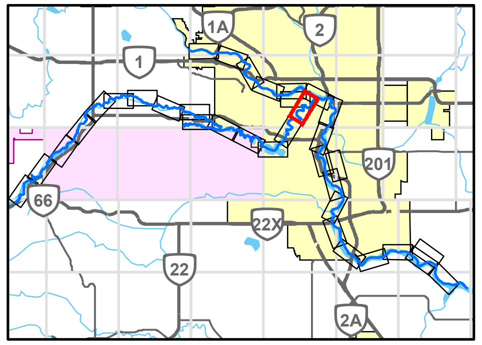
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 738 M^3/S
BOW RIVER BELOW ELBOW RIVER = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

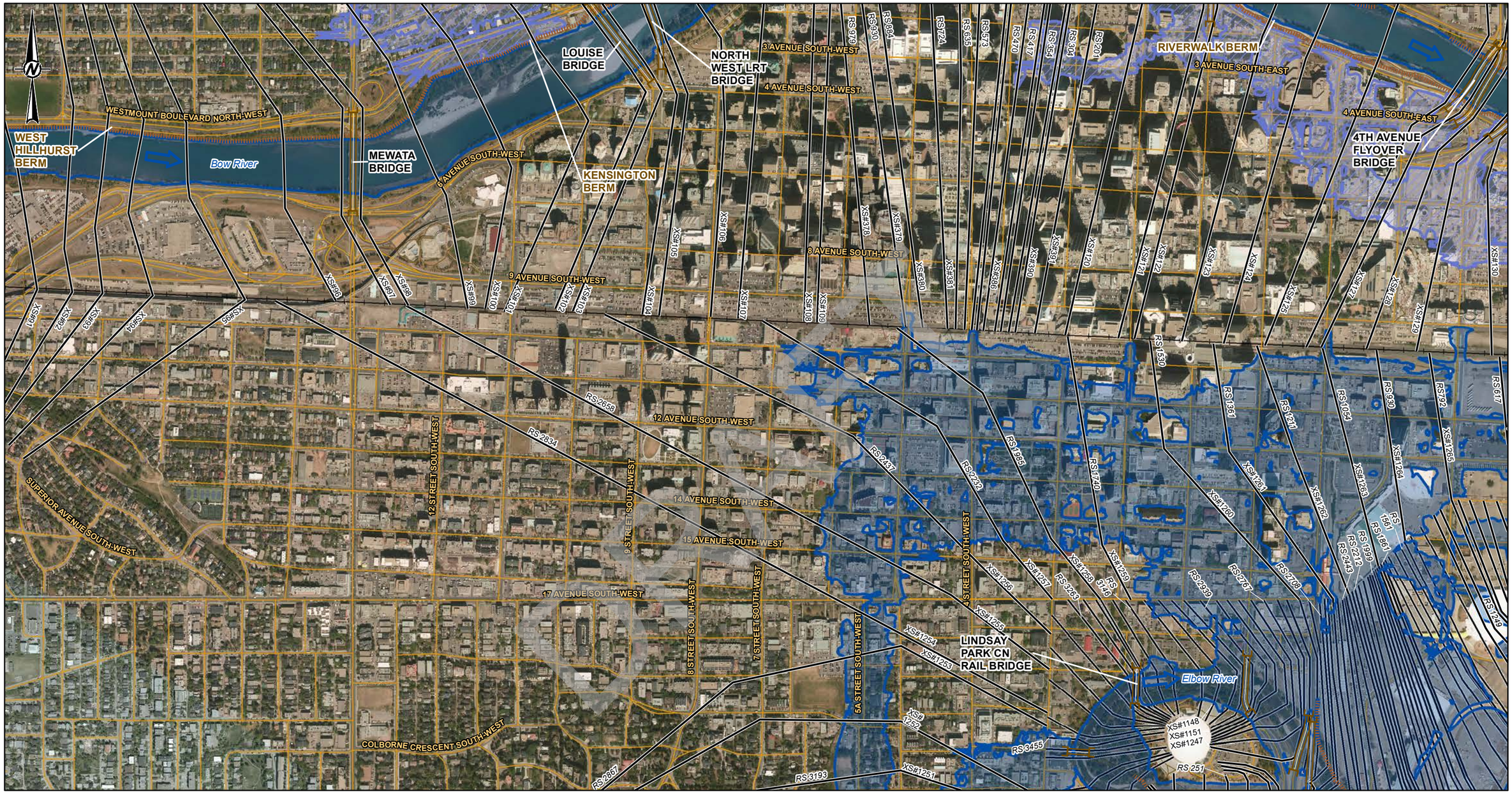
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:47:53 PM

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 33 ↓

LEGEND

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

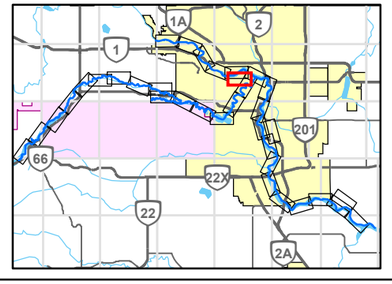
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

75-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 1880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 738 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
75-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075-y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:50:16 PM
Classification: Public

100-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

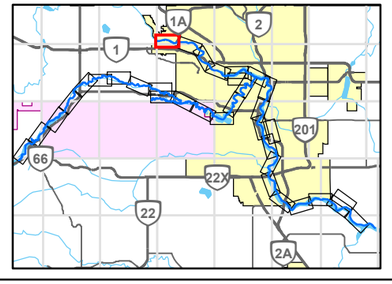
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

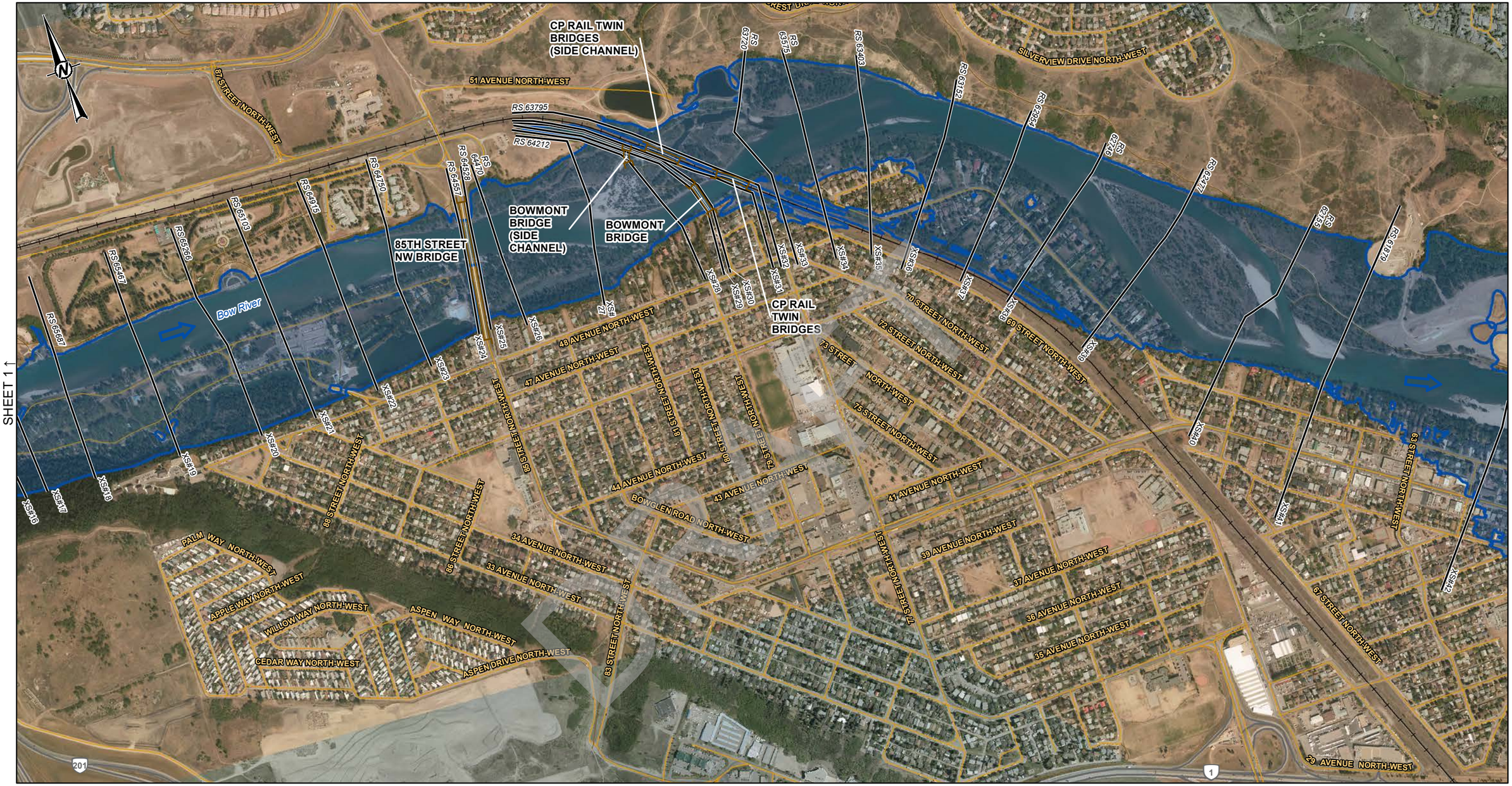
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010\0y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 2:54:10 PM

Classification: Public



LEGEND

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

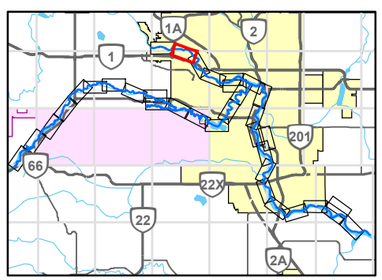
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 2:55:31 PM

Classification: Public

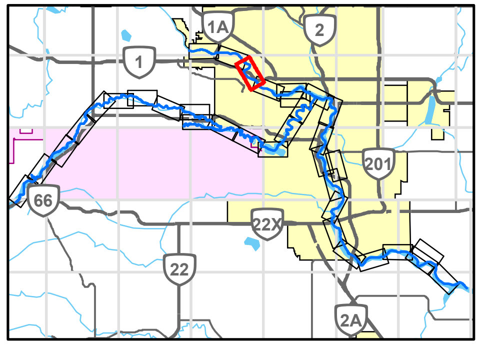
LEGEND

CROSS SECTION	FLOOD CONTROL STRUCTURE
XS#100 CROSS SECTION NUMBER	**HYDRAULIC STRUCTURES**
RS 304 RIVER STATION (M)	CULVERT
STUDY BOUNDARY	DAM
FLOW DIRECTION	OTHER
LOCAL ROAD	WEIR
PATHWAY	BRIDGE
PRIMARY HIGHWAY	
SECONDARY HIGHWAY	
RAILWAY	

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

-10000

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST MOUNT ROAD NORTH-WEST

WEST HILLHURST BERM

Bow River

WILDWOOD DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

RS 67219, RS 67207, RS 67049, RS 66917, RS 66427, RS 66329, RS 66163, RS 65902, RS 65076, RS 65591, RS 65434, RS 65322, RS 64799, RS 64672, RS 64403, RS 54971, RS 54141, RS 53940, RS 53650, RS 53573, RS 53476, RS 53299, RS 53127, RS 52941, RS 52701, RS 52614, RS 52491, RS 52228, RS 52076, RS 52022

XS#70, XS#71, XS#72, XS#73, XS#74, XS#75, XS#76, XS#77, XS#78, XS#79, XS#80, XS#81, XS#82, XS#83, XS#84, XS#85, XS#86, XS#87, XS#88, XS#89, XS#90

-10000

LEGEND

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

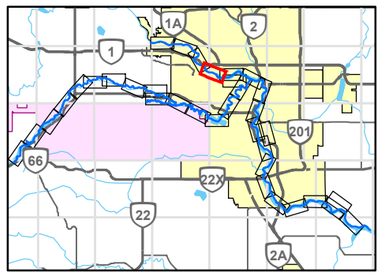
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0101y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 2:59:02 PM

Classification: Public

SHEET 4 ↑

SHEET 6 ↓

SHEET 33 & 34 ↓

10 AVENUE NORTH-WEST
8 AVENUE NORTH-WEST
6 AVENUE NORTH-WEST
3 AVENUE NORTH-WEST
1 AVENUE NORTH-WEST
WESTMOUNT ROAD NORTH-WEST
WESTMOUNT BOULEVARD NORTH-WEST
15 STREET NORTH-WEST
16 STREET NORTH-WEST
13 STREET NORTH-WEST
11 STREET NORTH-WEST
GLADSTONE ROAD NORTH-WEST
7 STREET NORTH-WEST
5A STREET NORTH-WEST
4A STREET NORTH-WEST
1 AVENUE SOUTH-WEST
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
6 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
3 AVENUE SOUTH-EAST

SUNNYSIDE BARRIER
PEACE BRIDGE
LOUISE BRIDGE
KENSINGTON BERM
WEST HILLHURST BERM
MEWATA BRIDGE
CROWCHILD TRAIL BRIDGE
NORTH WEST LRT BRIDGE
PRINCE'S ISLAND CAUSEWAY
PRINCE'S LAGOON WEIRS
JAIPUR BRIDGE
WEST EAU CLAIRE FLOOD BARRIER
CENTRE STREET BRIDGE BARRIER
PRINCE'S ISLAND BRIDGE
PRINCE'S ISLAND BRIDGE ON SIDE CHANNEL
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM

Bow River

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:10:47 PM

Classification: Public

SHEET 5 ↑

SHEET 7 ↓

NOSE CREEK
BOW RIVER
NEW LANGEVIN (EDMONTON TRAIL) BRIDGE
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE ON ZOO SIDE CHANNEL
ST. PATRICK'S ISLAND PEDESTRIAN BRIDGE
ZOO SERVICE BRIDGE
ZOO ISLAND FLOODWALL
WESTERN HEADWORKS WEIR
PEARCE ESTATE PARK BERM
CP RAIL BRIDGE
BRIDGELAND BERM
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM
LANGEVIN BRIDGE BERM
BAINES BRIDGE
ZOO ROAD NORTH-EAST
INGLEWOOD FLOOD BARRIER
ST. GEORGE'S ISLAND BRIDGE
4TH AVENUE FLYOVER BRIDGE
HARRY KROEGER BRIDGE
RIVERWALK BERM
ELBOW RIVER TRAVERSE
WEST INGLEWOOD BERM
CUSHING BRIDGE
SOUTH INGLEWOOD BERM
9TH AVENUE SE BRIDGE
OLD LANGEVIN BRIDGE
CP RAIL BRIDGE
MACDONALD BRIDGE
ELBOW RIVER
EDMONTON TRAIL NORTH-EAST
3 STREET NORTH-EAST
4 AVENUE NORTH-EAST
7 STREET NORTH-EAST
10 STREET NORTH-EAST
11A STREET NORTH-EAST
CENTRE AVENUE NORTH-EAST
9 STREET NORTH-EAST
12 STREET NORTH-EAST
MEMORIAL DRIVE NORTH-EAST
NEW STREET SOUTH-EAST
3 AVENUE SOUTH-EAST
4 AVENUE SOUTH-EAST
18 AVENUE SOUTH-EAST
24 AVENUE SOUTH-EAST

LEGEND

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

HYDRAULIC STRUCTURES

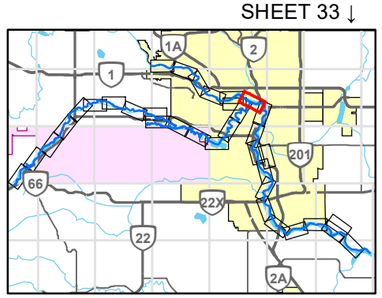
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 841 M^3/S
BOW RIVER BELOW ELBOW RIVER = 2390 M^3/S
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

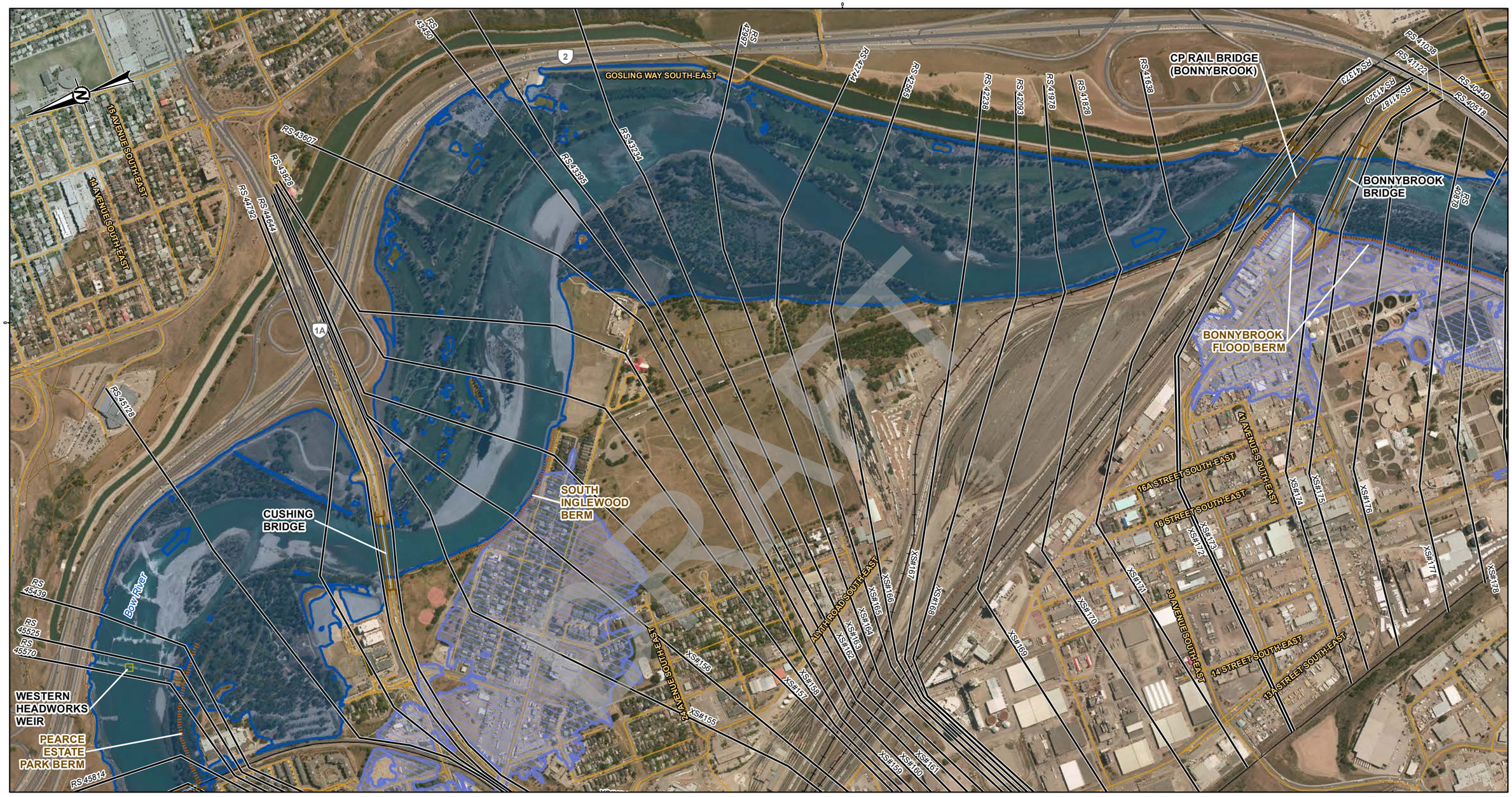
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:02:31 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

DRAFT

Classification: Public

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

C:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:04:01 PM

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40515
RS 40788
RS 40663
RS 40371
RS 40254
RS 40065
RS 39997
RS 39942
RS 39634
RS 39597
RS 39567
RS 39436
RS 39313
RS 39262
RS 39120
RS 38865
RS 38725
RS 38662
RS 38513
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 3166
RS 37530
RS 37460
RS 37417
RS 37301
RS 37029
RS 36882
RS 36741
RS 36303

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
13 STREET SOUTH-EAST
12 STREET SOUTH-EAST
10 STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST
RAILWAY STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST

CALF ROBE BRIDGE
CN RAIL BRIDGE
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

5650000

LEGEND

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

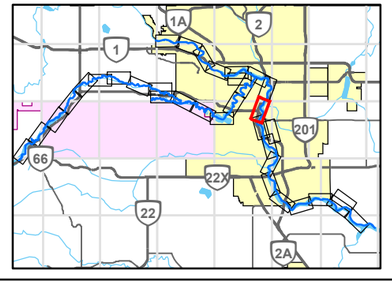
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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

0 25mm

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_010\0v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:05:28 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

IVOR STRONG BRIDGE

QUARRY PARK BERM

Bow River

18 STREET SOUTH-EAST

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

RS 37683
RS 37630
RS 37480
RS 37364
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35723
RS 35602
RS 35419
RS 35275
RS 35196
RS 34889
RS 34780
RS 34758
RS 34557

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

DRAFT

LEGEND

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

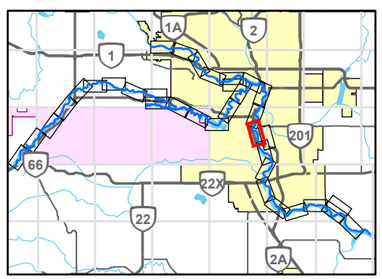
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0109y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:06:50 PM

Classification: Public

SHEET 8 ↑

SHEET 10 ↓

SHEPARD ROAD SOUTH-EAST
24 STREET SOUTH-EAST
29 STREET SOUTH-EAST
18 STREET SOUTH-EAST
QUARRY PARK BOULEVARD SOUTH-EAST
QUARRY DRIVE SOUTH-EAST
RIVERVALLEY DRIVE SOUTH-EAST
RIVERVIEW CLOSE SOUTH-EAST

RS 34496
RS 34759
RS 34780
RS 34557
RS 34071
RS 33853
RS 33764
RS 33547
RS 33266
RS 33171
RS 32929
RS 32727
RS 32729
RS 31629
RS 31236
RS 31186
RS 31220
RS 31348

2

LEGEND

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

HYDRAULIC STRUCTURES

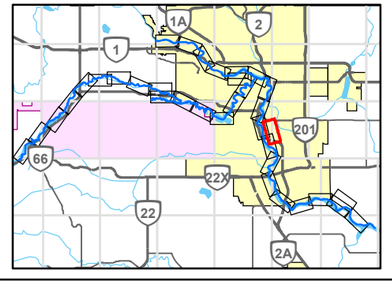
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S

SHEET 9 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:08:06 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

DRAFT

LEGEND

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

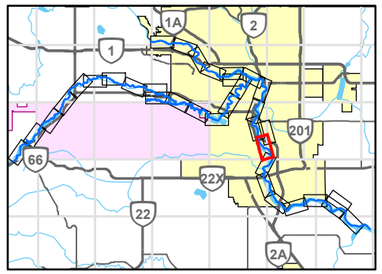
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

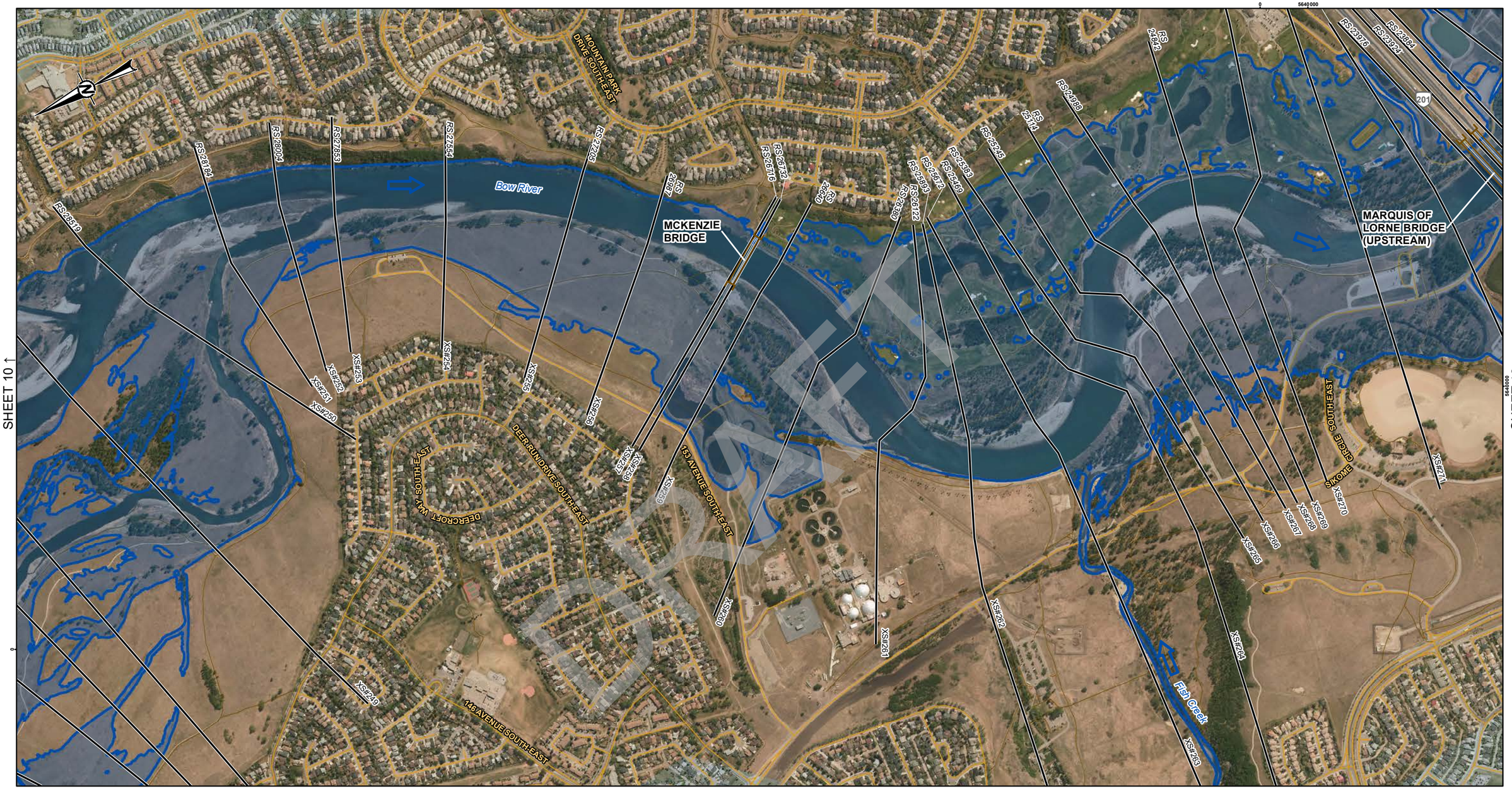
TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0101y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:09:28 PM



LEGEND

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

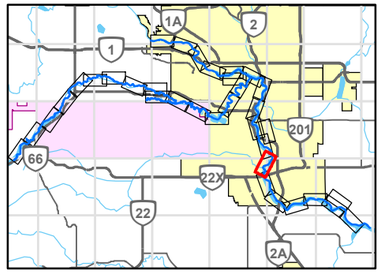
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 2420 M^3/S
BOW RIVER BELOW FISH CREEK = 2580 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

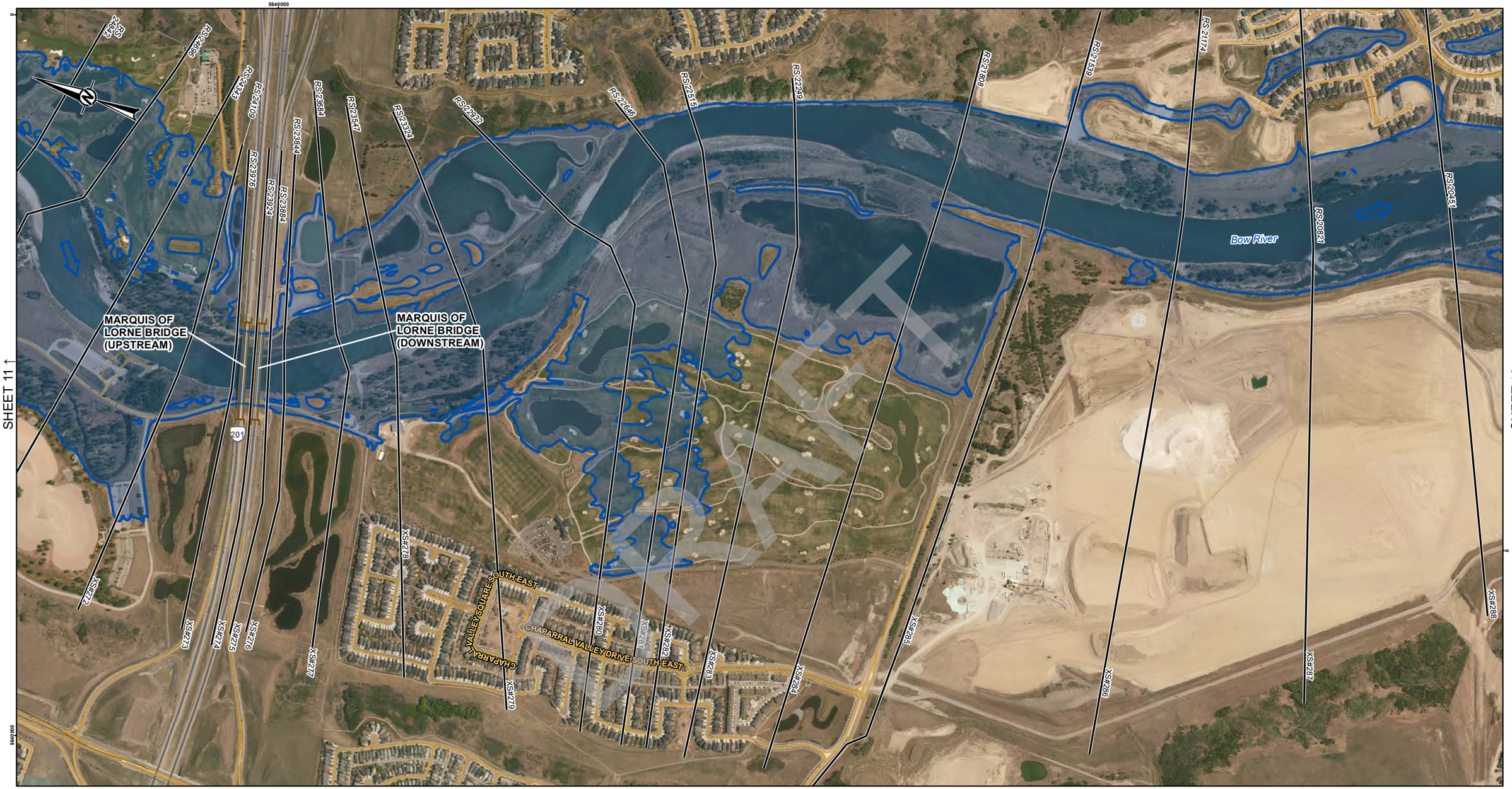
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0101y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:10:53 PM

DRAFT

Classification: Public



DRAFT

LEGEND

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

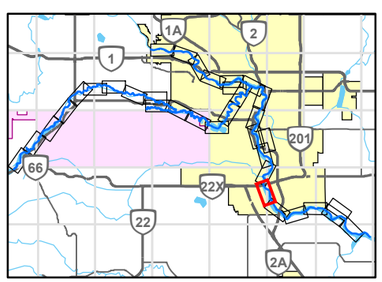
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 2580 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0103y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:12:07 PM

Classification: Public

SHEET 12 ↑

SHEET 14 ↓

RS 20827
RS 20437
RS 20090
RS 19815
RS 19564
RS 19337
RS 19057
RS 18685
RS 18436
RS 18309
RS 18123
RS 17863
RS 17408
RS 17226
RS 16920
RS 16402
RS 16136
RS 15672

XS#289
XS#290
XS#291
XS#292
XS#293
XS#294
XS#295
XS#296
XS#297
XS#298
XS#299
XS#300
XS#301
XS#302

Bow River
Pine Creek
LEGACY CIRCLE SOUTH-EAST
DUNBOW ROAD BRIDGE (UPSTREAM)
DUNBOW ROAD BRIDGE (DOWNSTREAM)
2

DRAFT

LEGEND

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

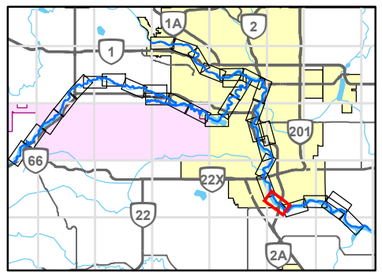
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 2580 M^3/S
BOW RIVER BELOW PINE CREEK = 2620 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

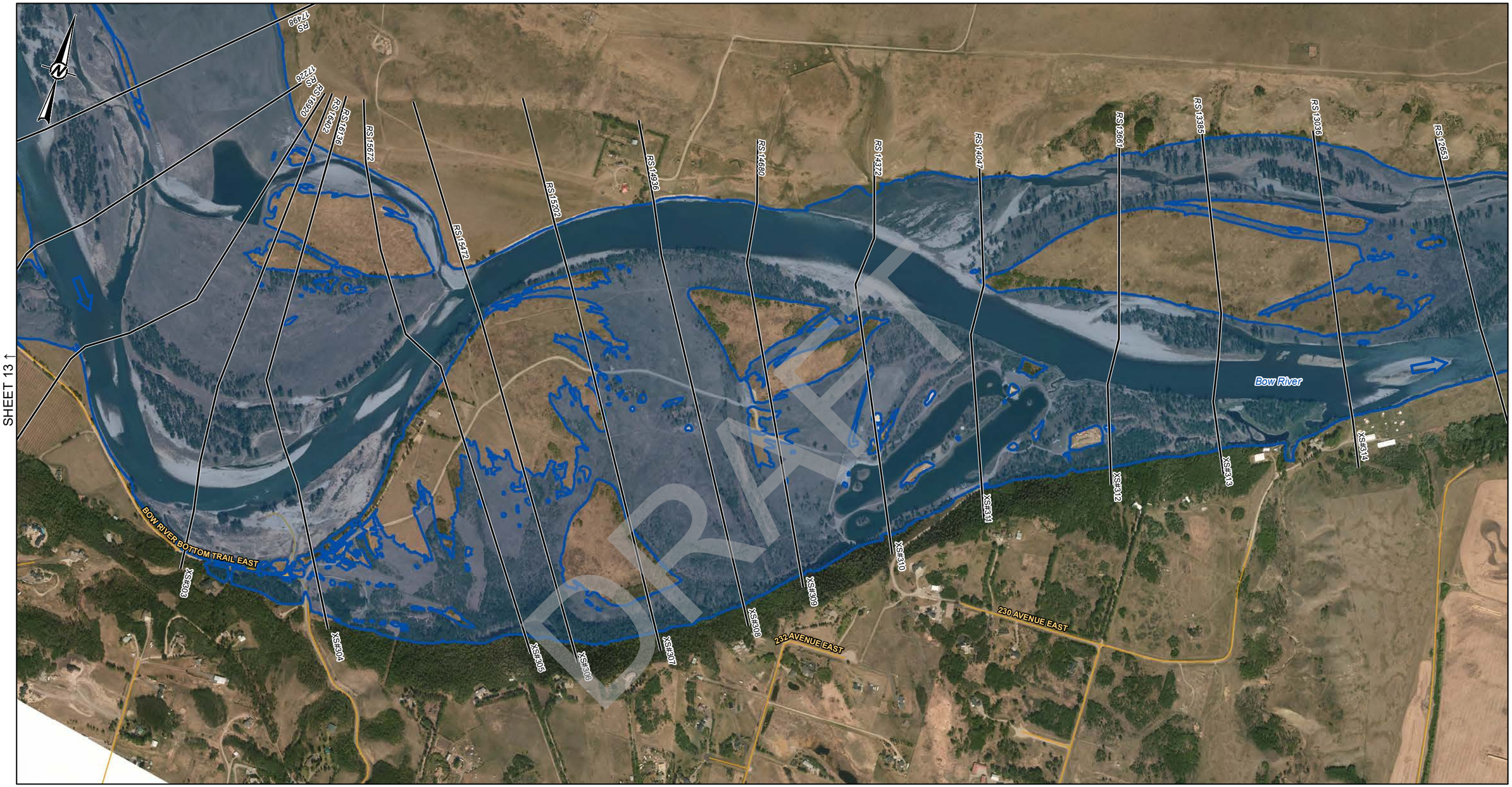
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:13:38 PM

Classification: Public



SHEET 13 ↑

SHEET 15 ↓

DRAFT

LEGEND

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

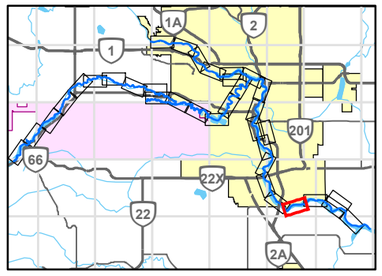
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2620 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

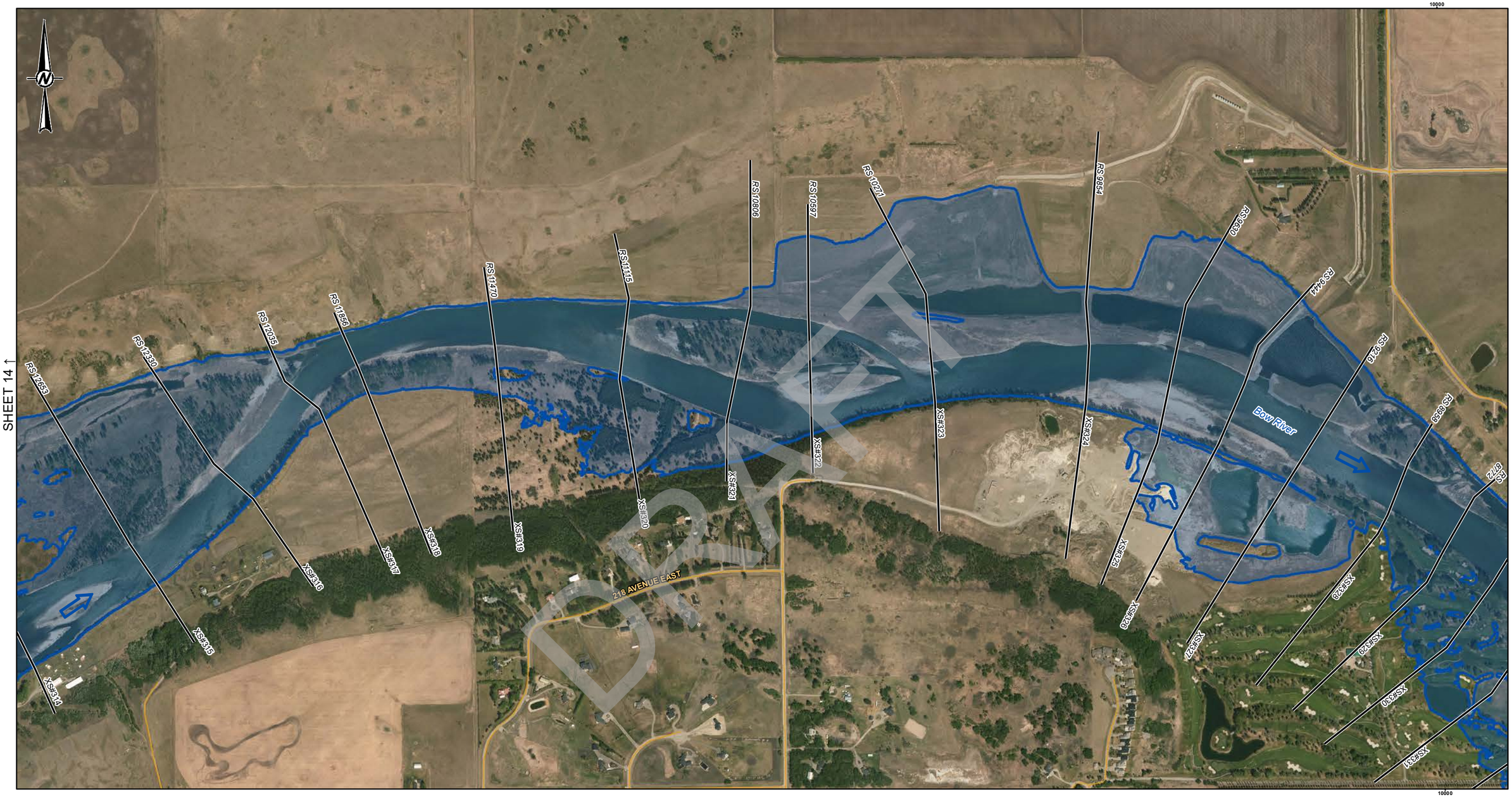
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:14:36 PM

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

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



DRAFT

LEGEND

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

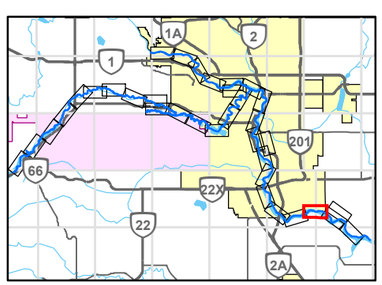
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 2620 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 2660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:15:44 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

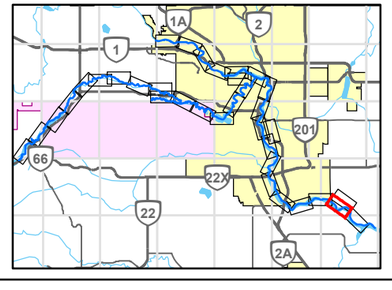
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2660 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

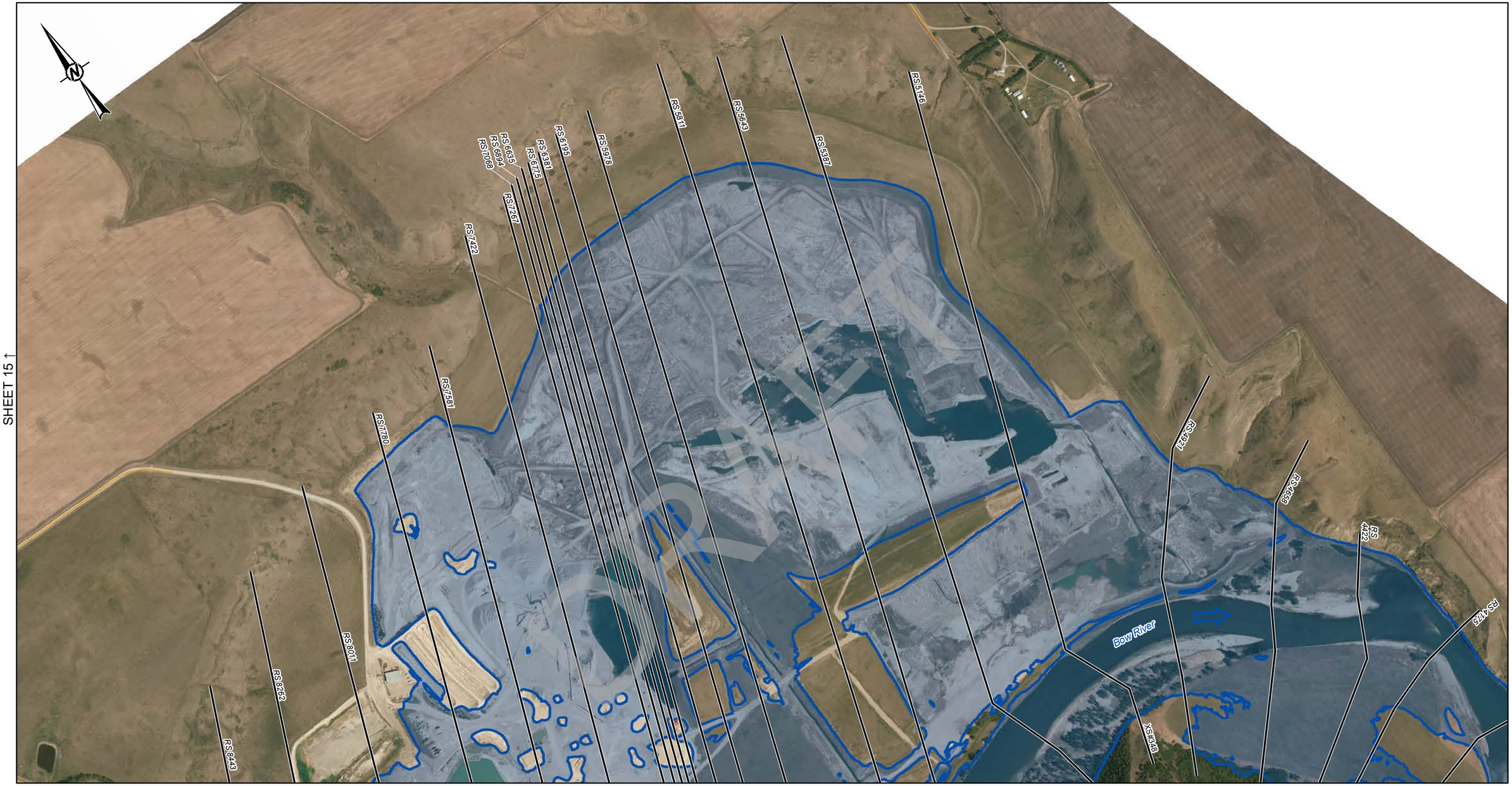
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

DRAFT

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:17:16 PM

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

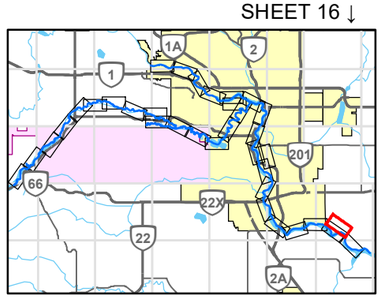
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2660 M^3/S

SHEET 16 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0103y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:18:24 PM

Classification: Public

LEGEND

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

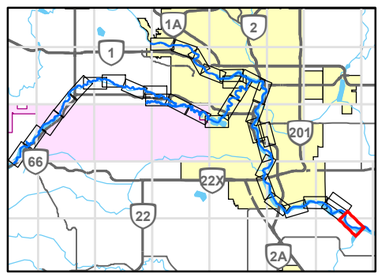
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 2660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:19:33 PM

Classification: Public

ELBOW RIVER
UPSTEAM MAPPING
BOUNDARY

WILD ROSE CAFE

TOWNSHIP ROAD 232

RANGE ROAD 51A

Elbow River

758

66

DRAFT

SHEET 20 ↓

LEGEND

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

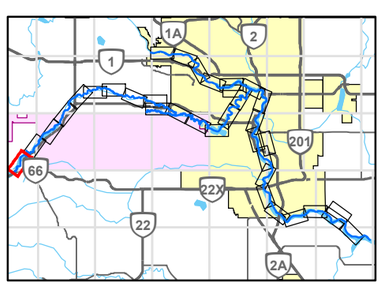
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

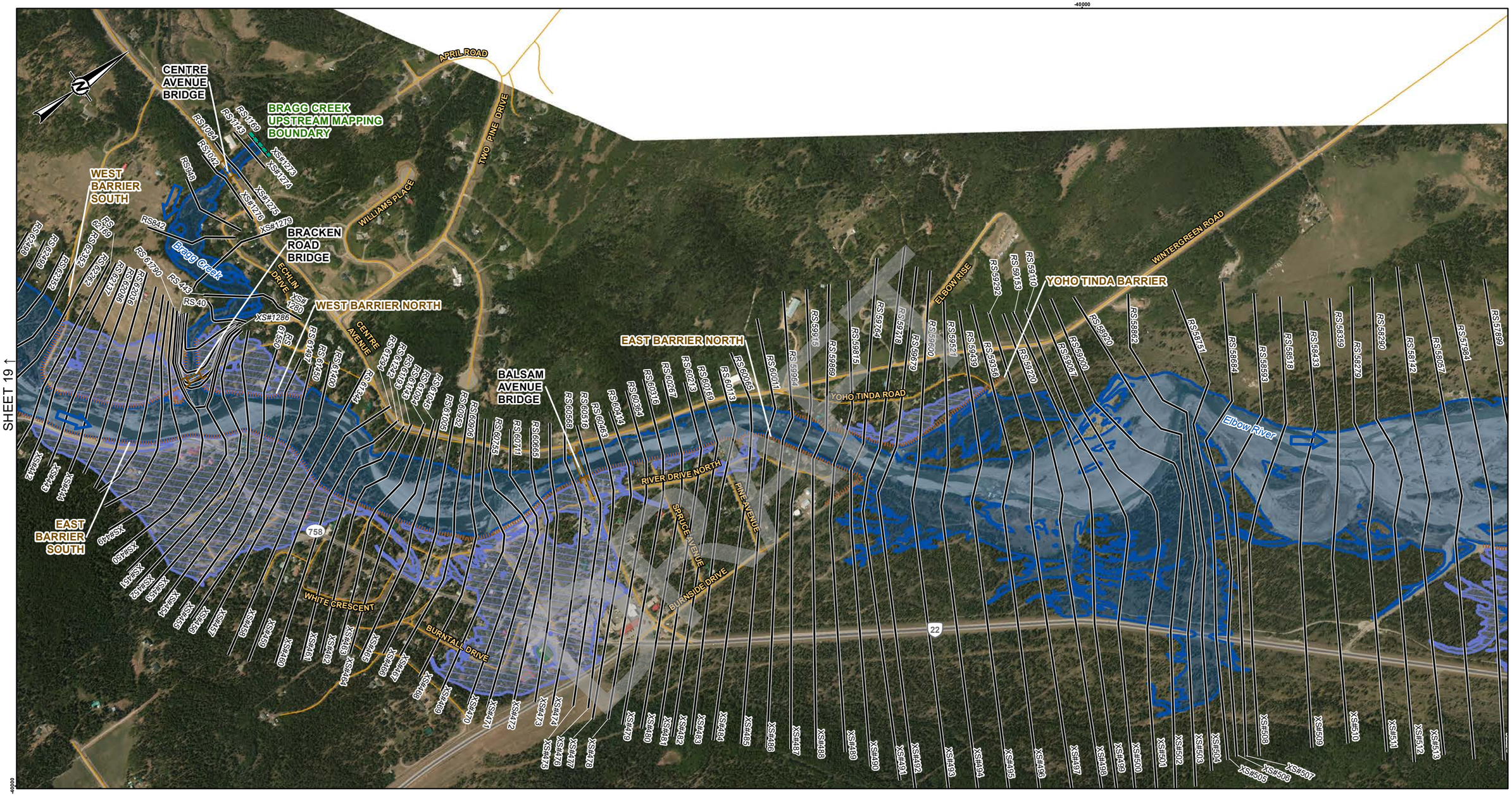
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0101y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:21:14 PM

Classification: Public



LEGEND

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

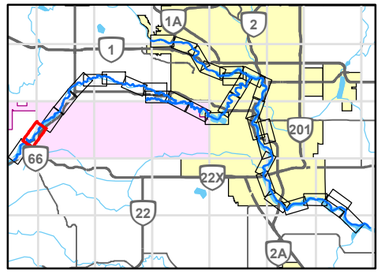
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S
BRAGG CREEK = 48.1 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

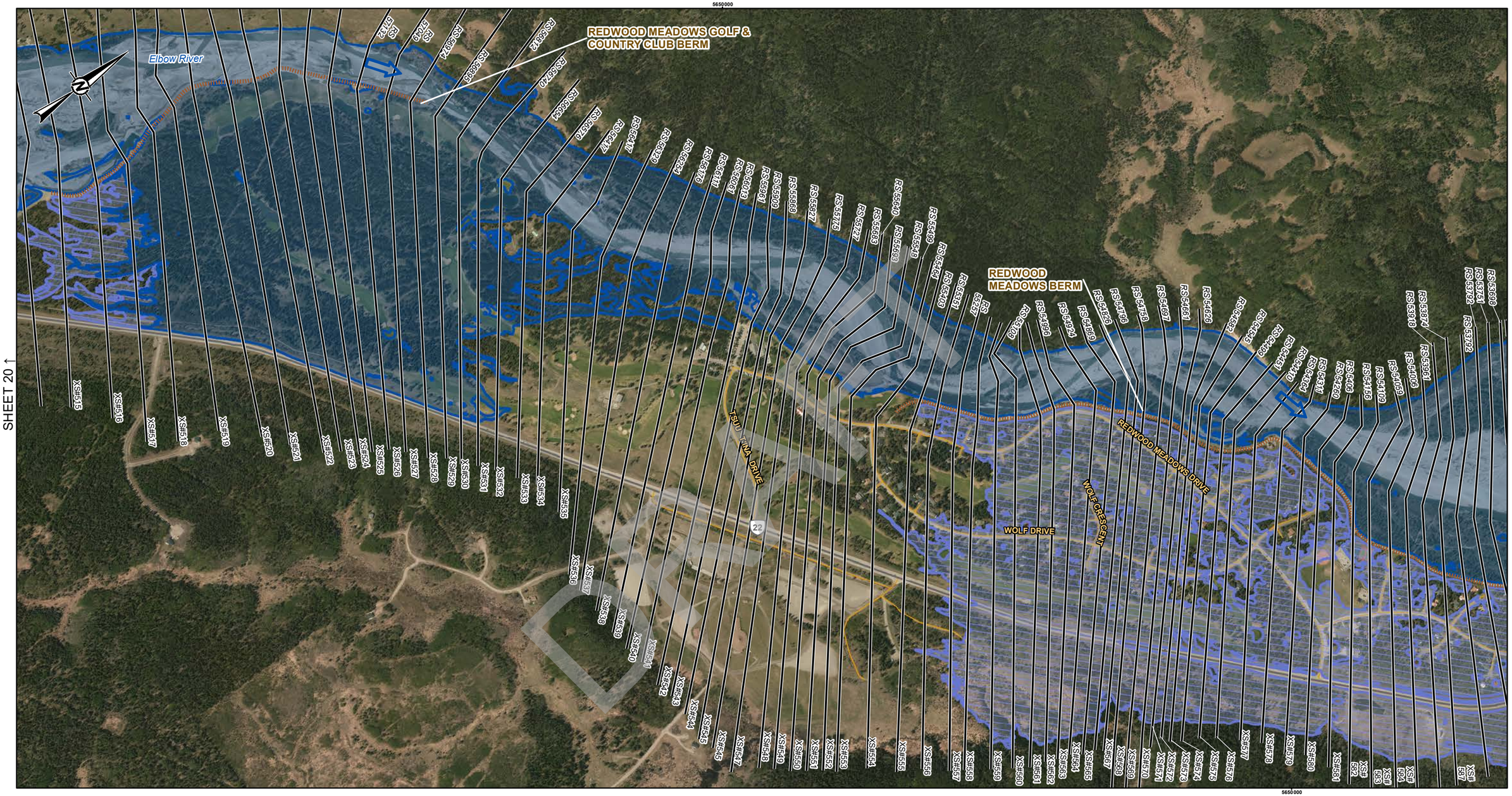
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:22:39 PM

Classification: Public



LEGEND

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

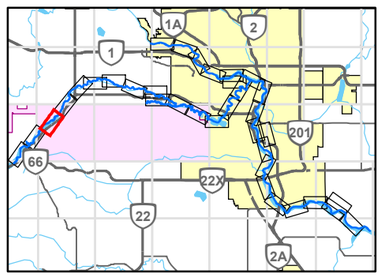
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

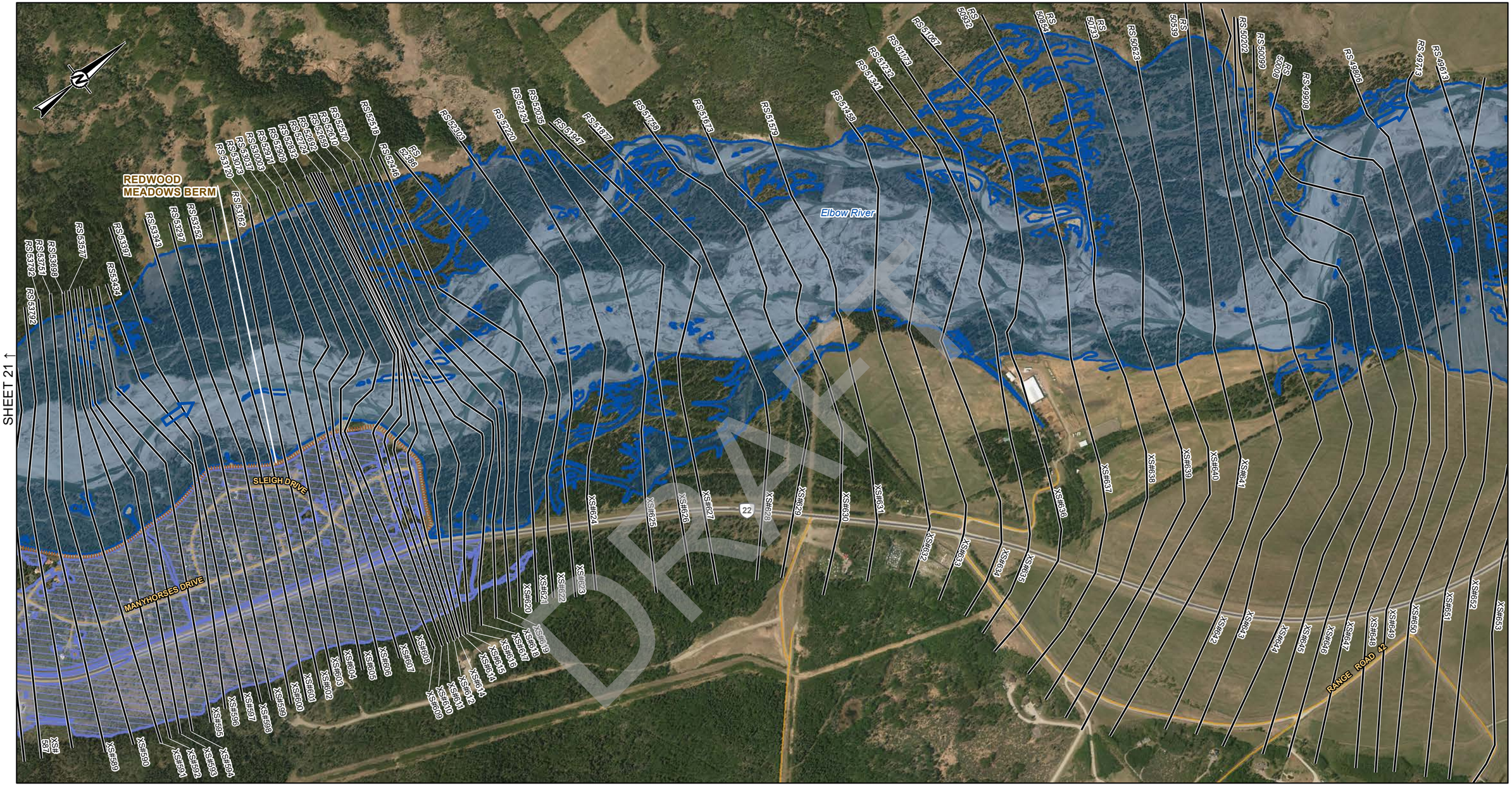
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:24:19 PM

Classification: Public



LEGEND

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

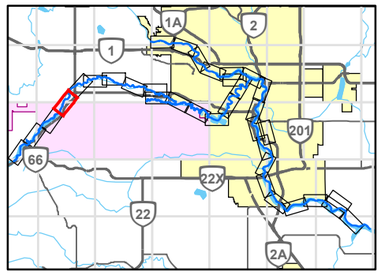
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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

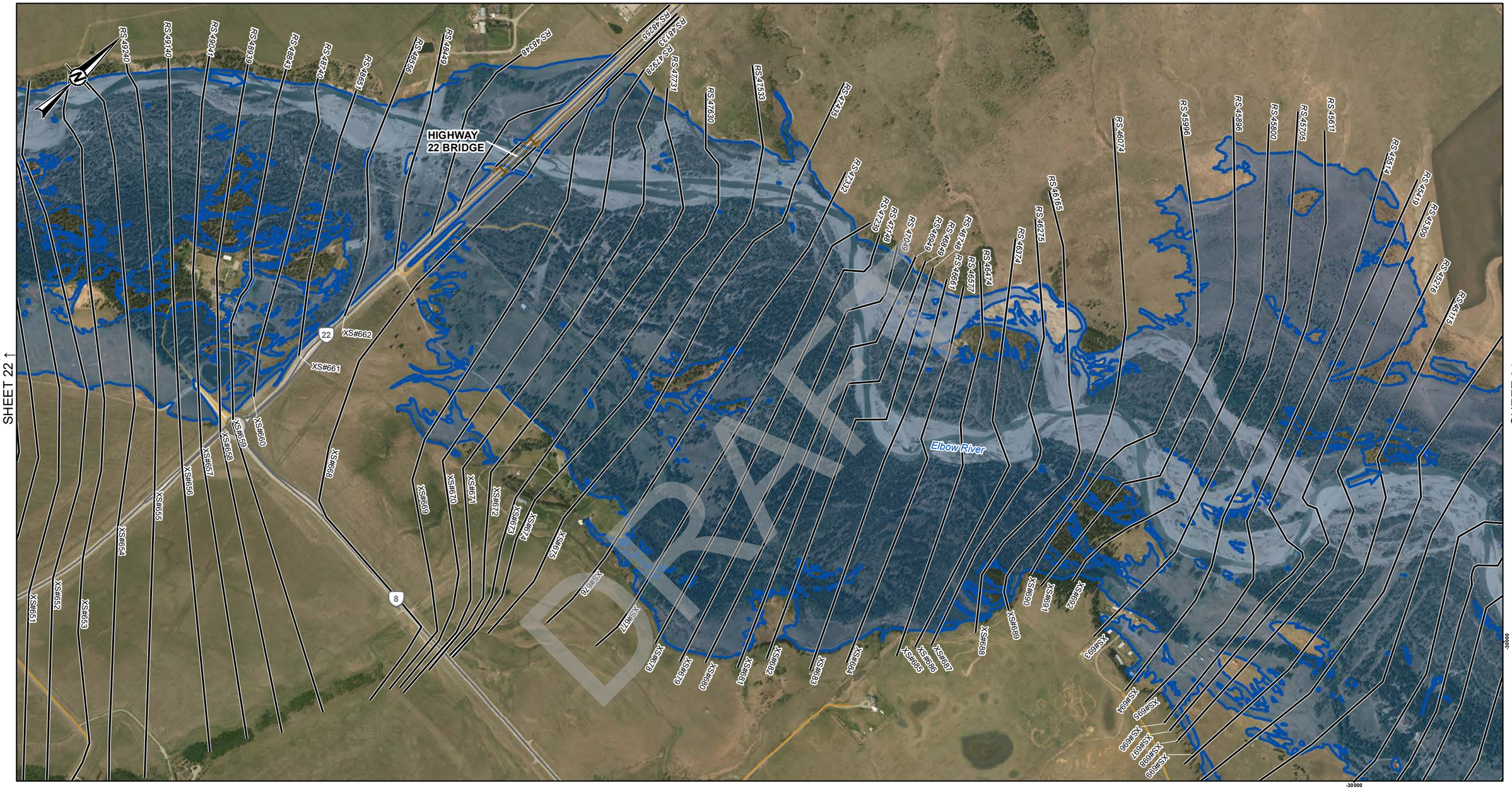
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:25:39 PM

DRAFT

Classification: Public



LEGEND

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

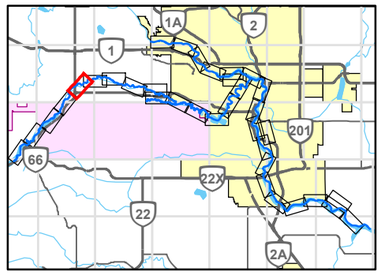
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

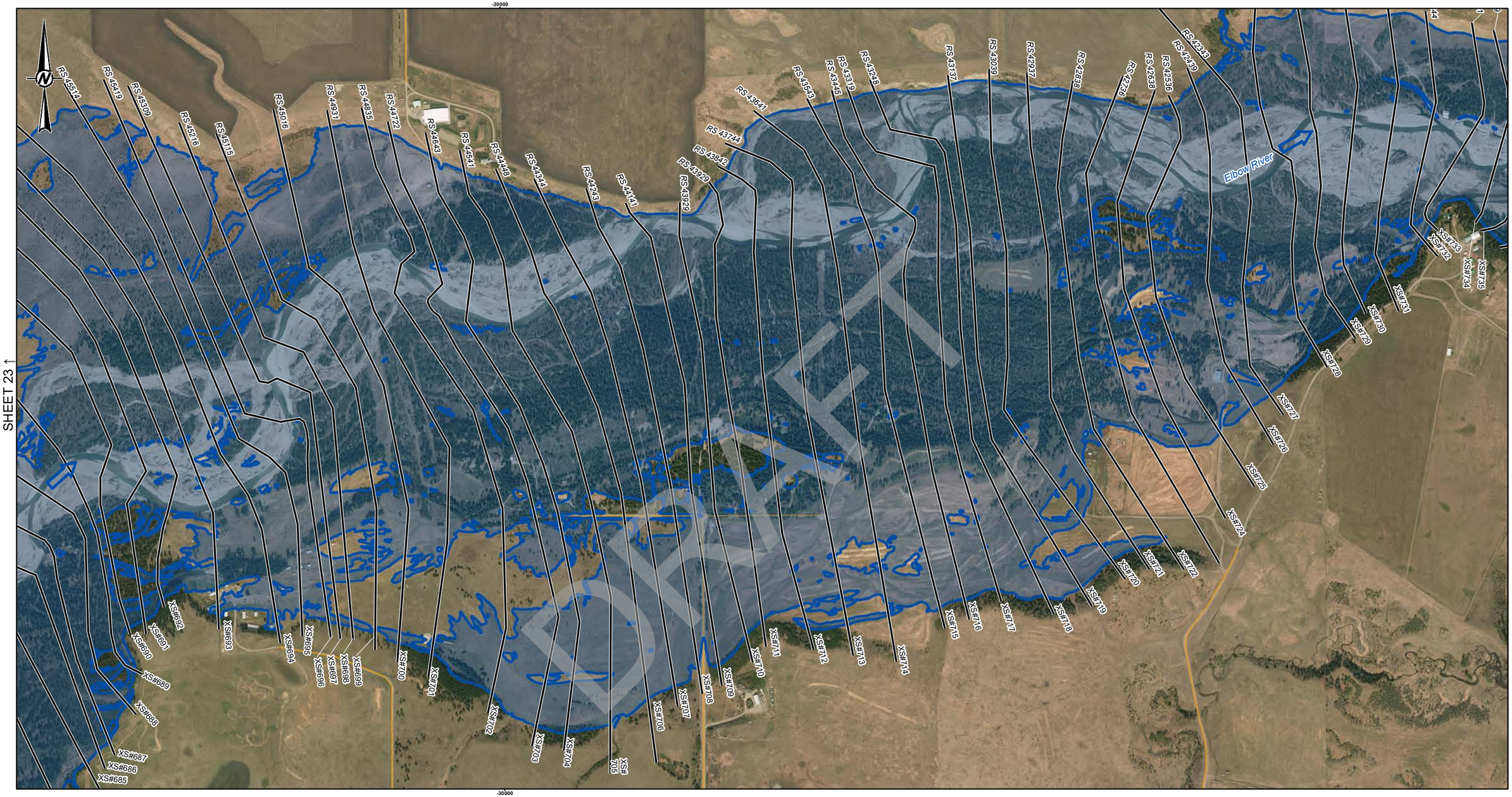
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:26:51 PM

Classification: Public



LEGEND

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

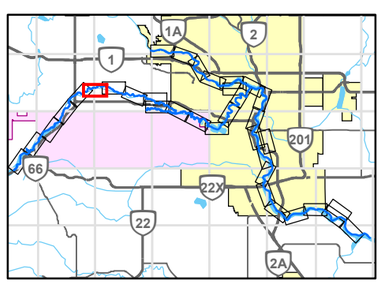
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

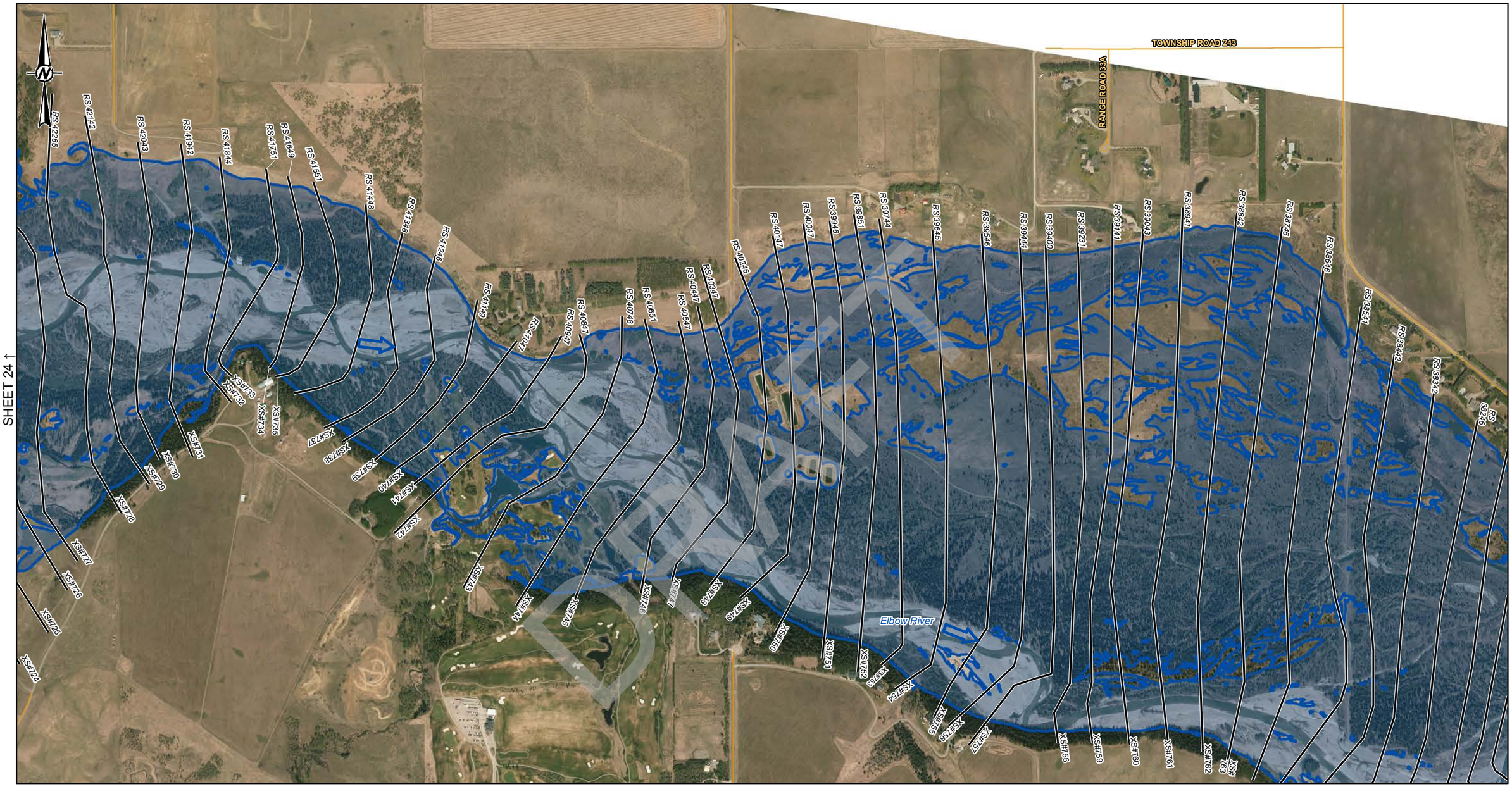
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0103y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:28:01 PM

Classification: Public



LEGEND

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

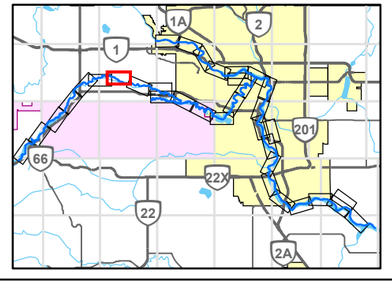
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

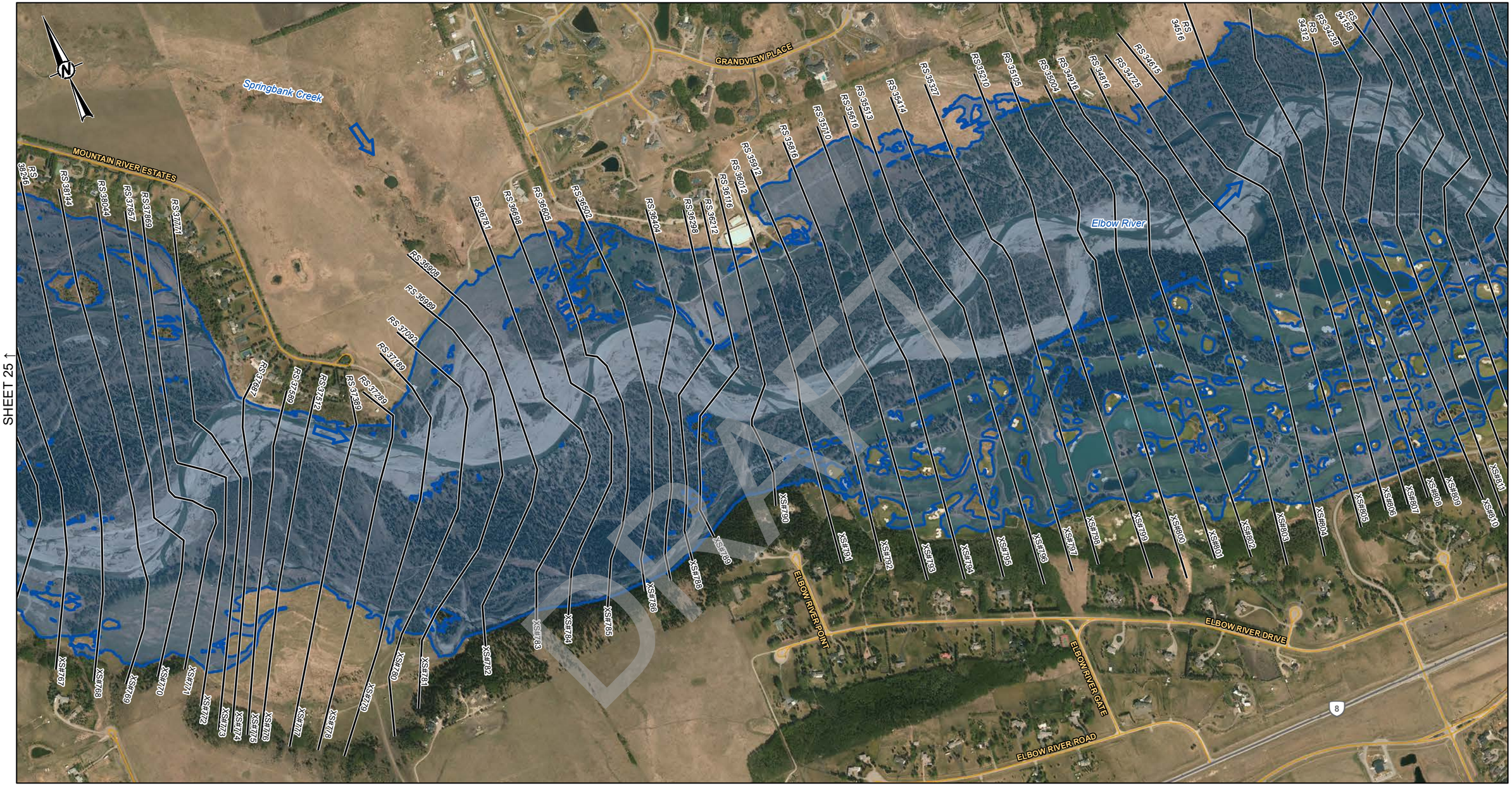
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

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

0 25mm

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:29:02 PM



SHEET 25 ↑

SHEET 27 ↓

DRAFT

LEGEND

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

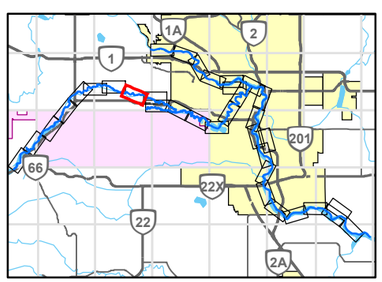
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 840 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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

0 25mm

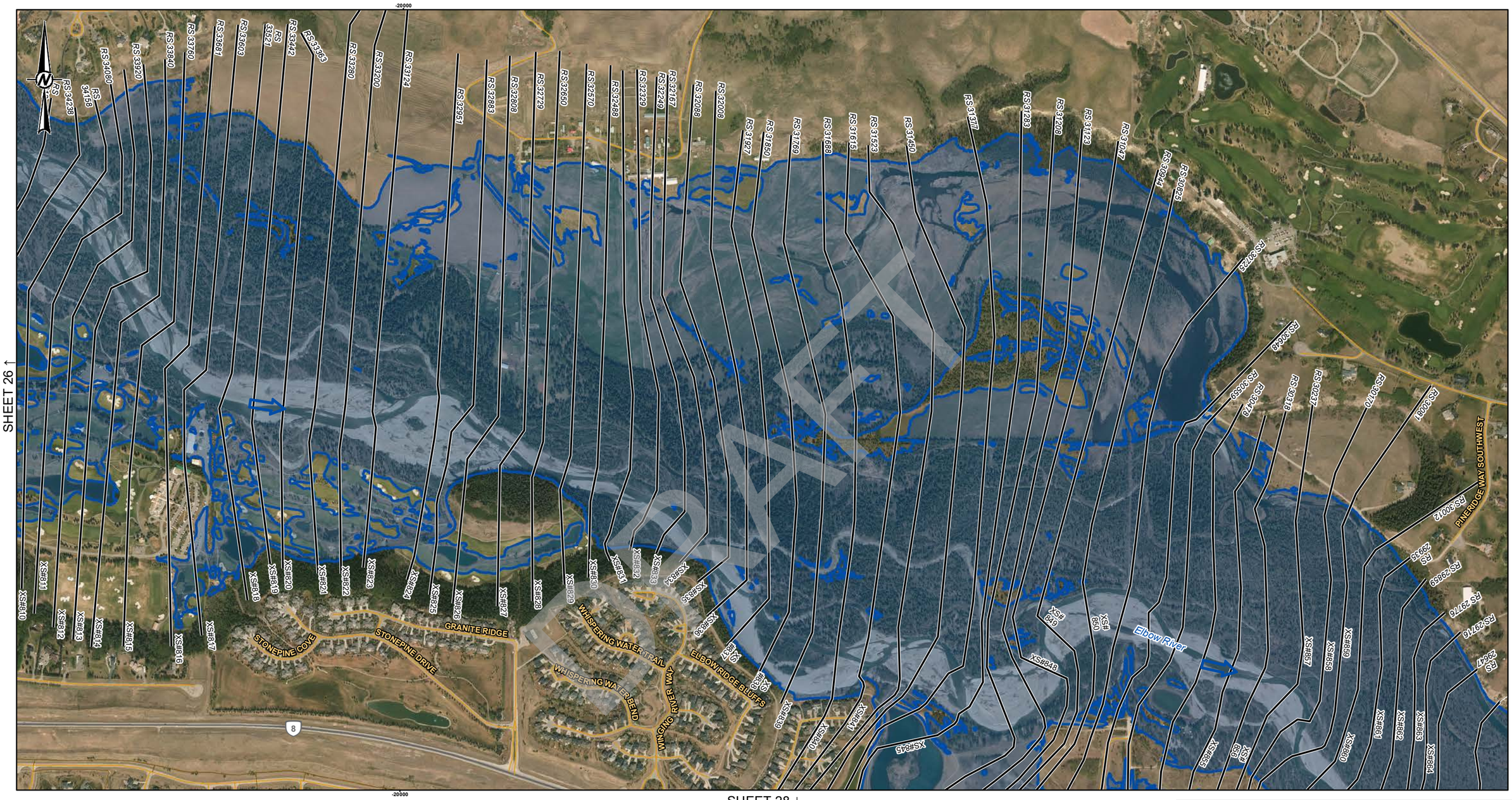
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:30:24 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

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

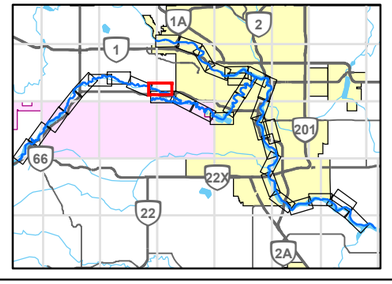
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S
LOTT CREEK = 30.8 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

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

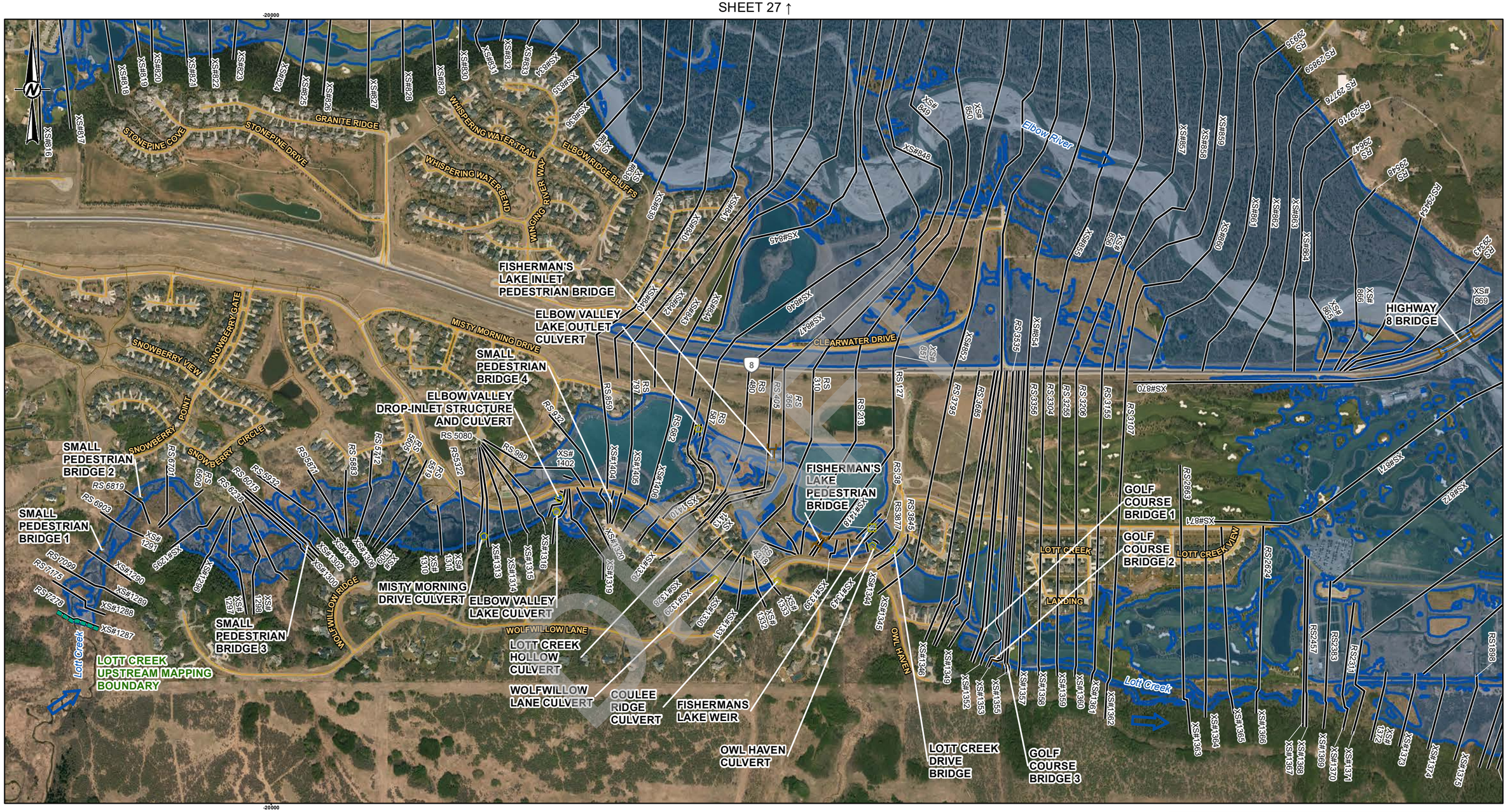
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMap.prjg\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:32:11 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

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

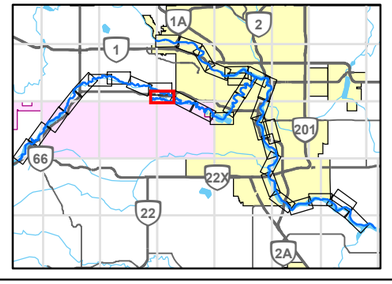
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S
LOTT CREEK = 30.8 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0103y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:34:02 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

Elbow River

RS 15262 RS 15169 RS 15020 RS 14857 RS 14699 RS 14571 RS 14457 RS 14393 RS 14211 RS 14099 RS 13979 RS 13874 RS 13769 RS 13704 RS 13633 RS 13576 RS 13540 RS 13385 RS 13299 RS 13113 RS 12993 RS 12871 RS 12712 RS 12540 RS 12385 RS 12226 RS 12083 RS 11984 RS 11810 RS 11672 RS 11630 RS 11419 RS 11235 RS 11088 RS 10907 RS 10697 RS 10556 RS 10432 RS 10370 RS 10223 RS 10076 RS 9997 RS 9824 RS 9669 RS 9527 RS 9414 RS 9343 RS 9138 RS 9049

XS#1489 XS#1472 XS#1376 XS#1374 XS#1373 XS#1372 XS#1379 XS#1378 XS#1380 XS#1381 XS#1382 XS#1383 XS#1384 XS#1385 XS#1386 XS#1388 XS#1389 XS#1390 XS#1391 XS#1392 XS#1394 XS#1395 XS#1396 XS#1397 XS#1398 XS#1399 XS#889 XS#890 XS#891 XS#892 XS#893 XS#894 XS#895 XS#896 XS#897 XS#899 XS#900 XS#901 XS#902 XS#903 XS#904 XS#905 XS#906 XS#907 XS#908 XS#879 XS#880 XS#882 XS#883 XS#884 XS#885 XS#886 XS#887 XS#888

RS 15262 RS 15020 RS 14857 RS 14699 RS 14571 RS 14457 RS 14393 RS 14211 RS 14099 RS 13979 RS 13874 RS 13769 RS 13704 RS 13633 RS 13576 RS 13540 RS 13385 RS 13299 RS 13113 RS 12993 RS 12871 RS 12712 RS 12540 RS 12385 RS 12226 RS 12083 RS 11984 RS 11810 RS 11672 RS 11630 RS 11419 RS 11235 RS 11088 RS 10907 RS 10697 RS 10556 RS 10432 RS 10370 RS 10223 RS 10076 RS 9997 RS 9824 RS 9669 RS 9527 RS 9414 RS 9343 RS 9138 RS 9049

RS 65

LEGEND

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

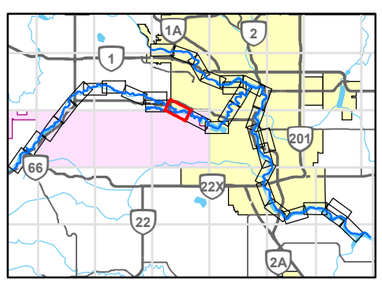
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S
LOTT CREEK = 30.8 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

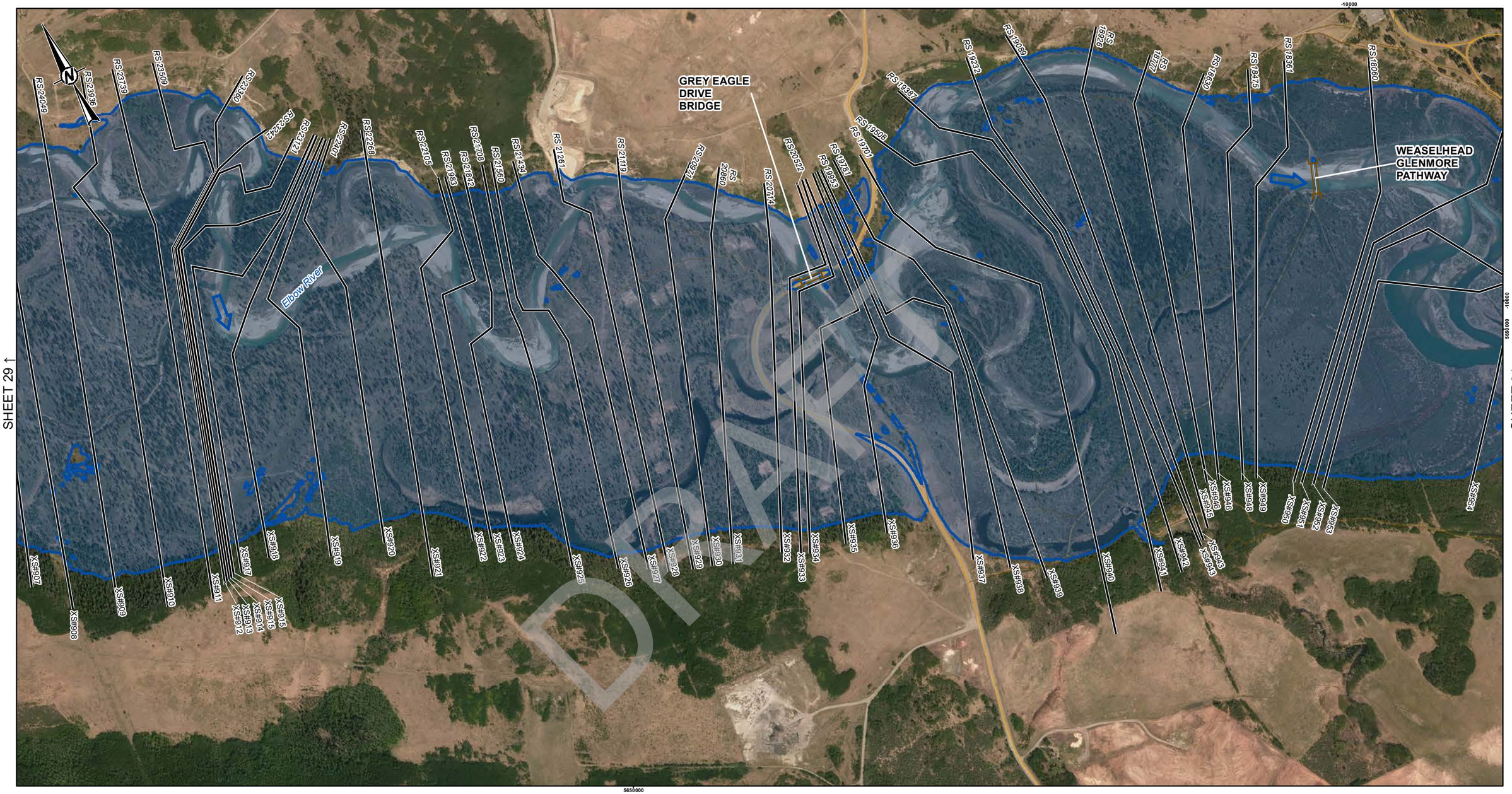
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:16:16 PM

Classification: Public



LEGEND

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

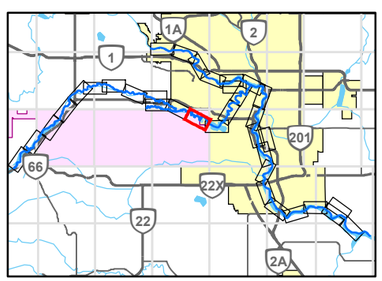
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

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

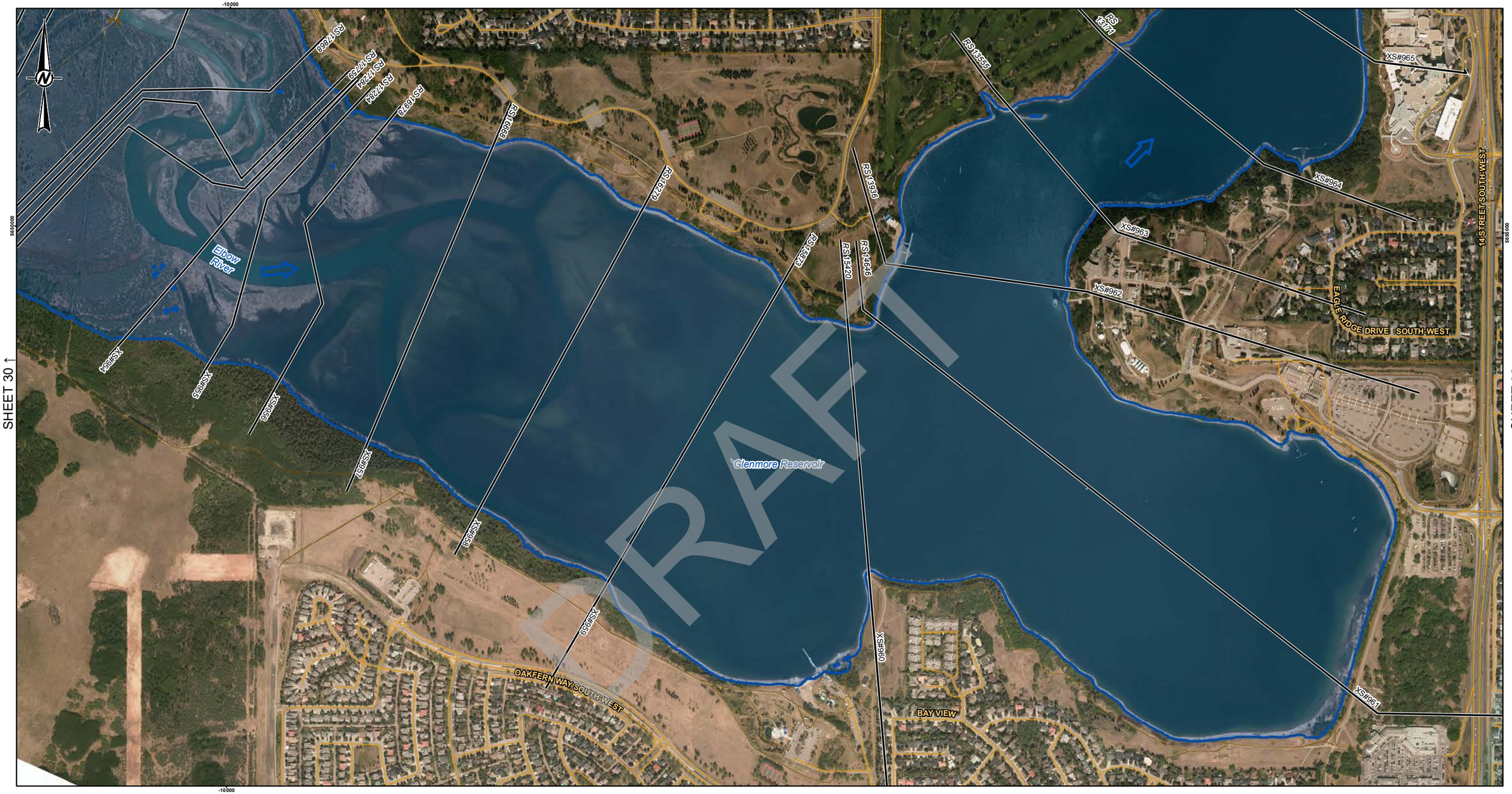
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:38:33 PM

DRAFT

Classification: Public



LEGEND

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

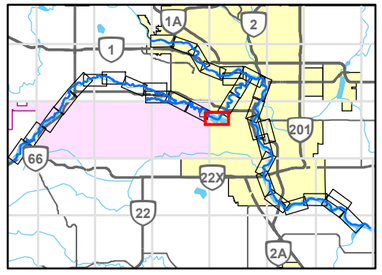
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 841 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

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

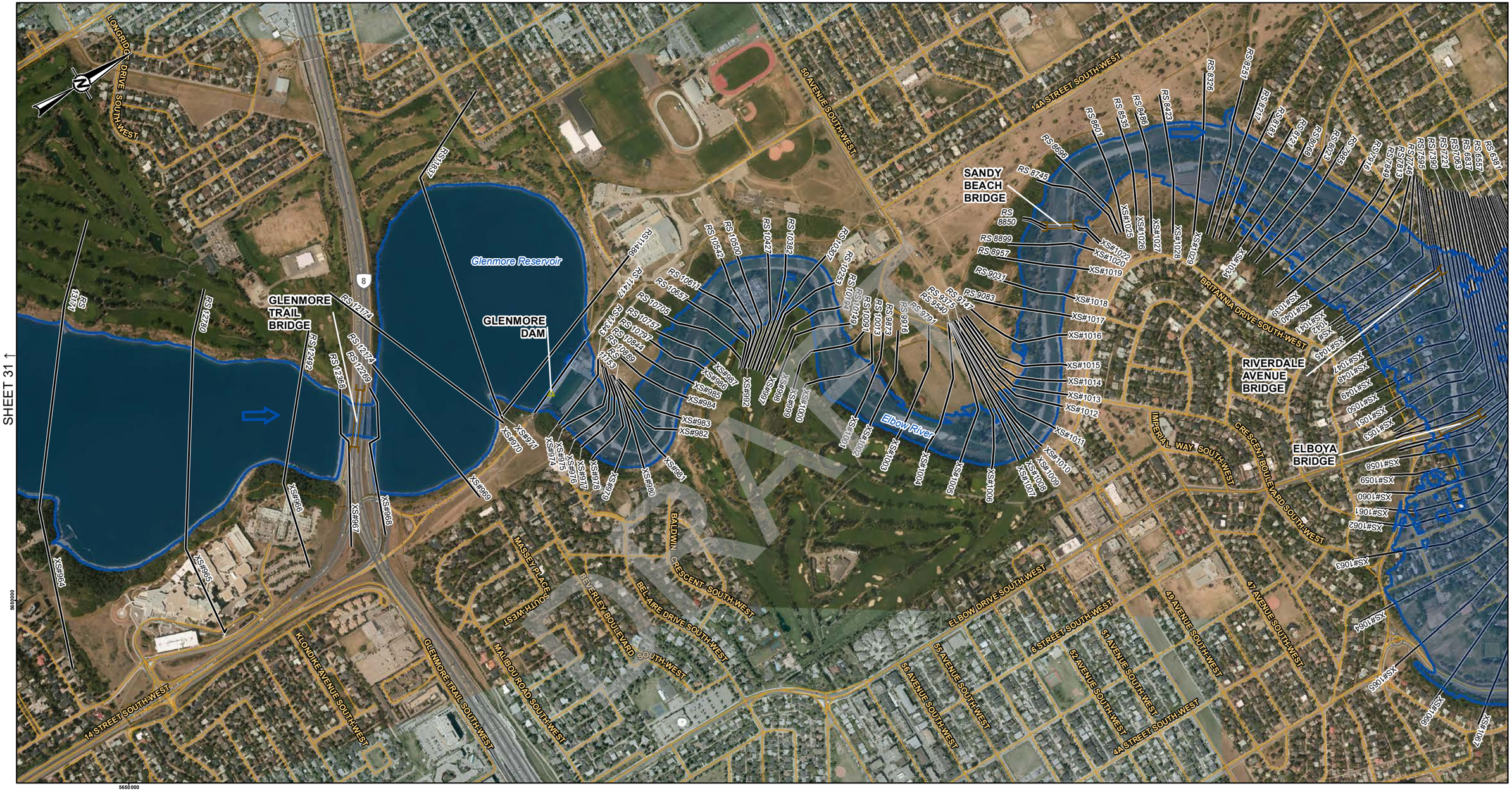
25mm 0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:40:33 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓



LEGEND

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

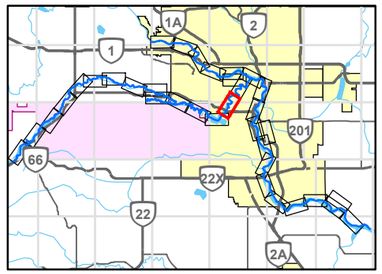
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 841 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

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

25mm

0

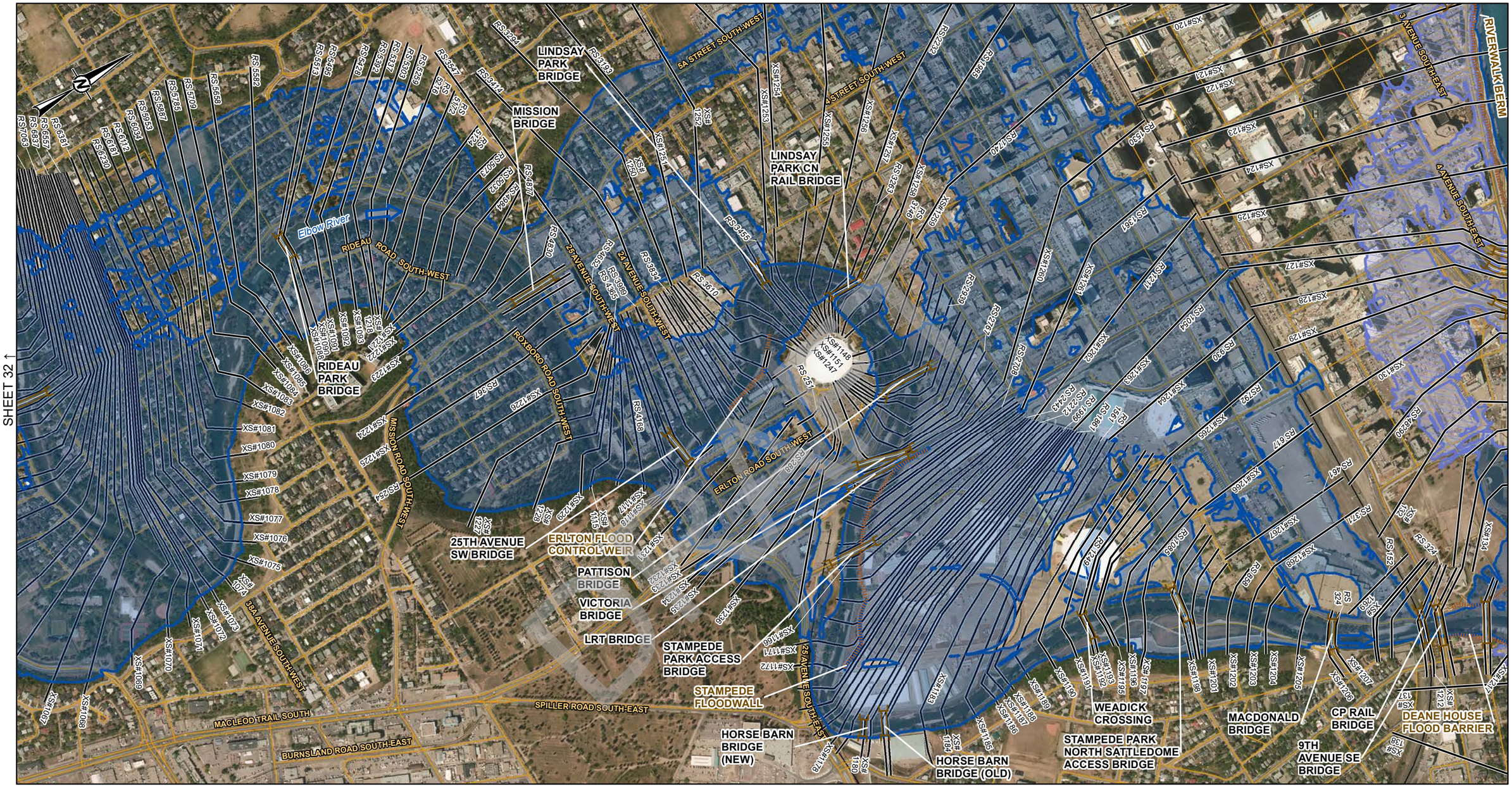
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:42:52 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

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

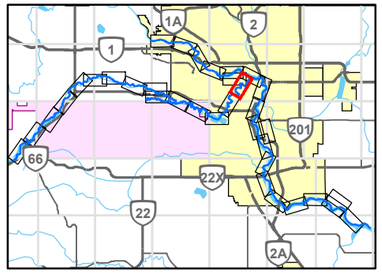
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 841 M^3/S
BOW RIVER BELOW ELBOW RIVER = 2390 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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

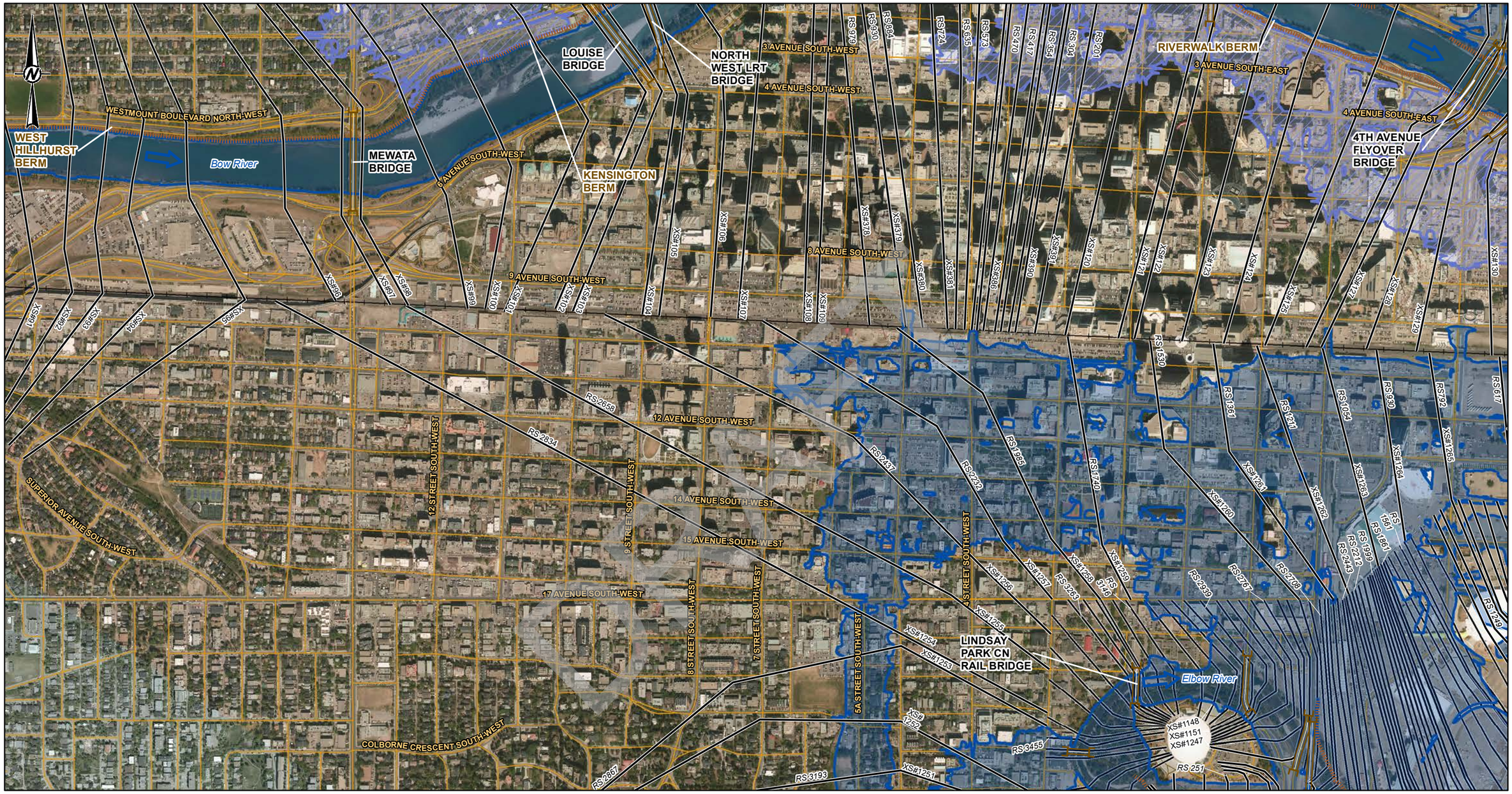
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0103y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:44:32 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

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

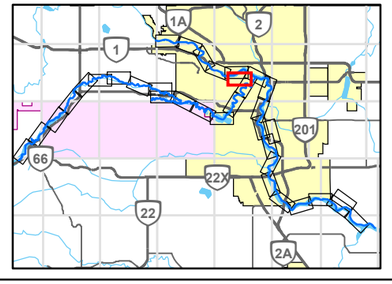
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

100-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2090 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 841 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
100-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

SHEET 33 ↓

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:46:55 PM
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
Classification: Public

200-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

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

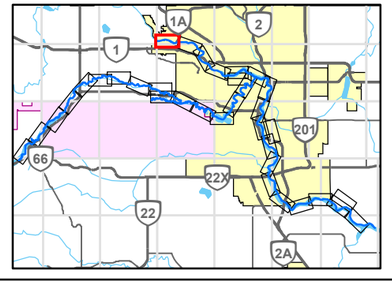
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020(b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 2:59:02 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

51 AVENUE NORTH-WEST

67 STREET NORTH-WEST

SILVERVIEW DRIVE NORTH-WEST

RS 63795

RS 64212

RS 63720

RS 63573

RS 63493

RS 63162

RS 62954

RS 62746

RS 62477

RS 62153

RS 61879

RS 64710

RS 64528

RS 64557

RS 64150

RS 64915

RS 66103

RS 65766

RS 66467

RS 66567

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

Bow River

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

49 AVENUE NORTH-WEST

47 AVENUE NORTH-WEST

44 AVENUE NORTH-WEST

43 AVENUE NORTH-WEST

41 AVENUE NORTH-WEST

39 AVENUE NORTH-WEST

37 AVENUE NORTH-WEST

36 AVENUE NORTH-WEST

35 AVENUE NORTH-WEST

34 AVENUE NORTH-WEST

33 AVENUE NORTH-WEST

29 AVENUE NORTH-WEST

BOWGLEN ROAD NORTH-WEST

70 STREET NORTH-WEST

72 STREET NORTH-WEST

73 STREET NORTH-WEST

75 STREET NORTH-WEST

69 STREET NORTH-WEST

81 STREET NORTH-WEST

83 STREET NORTH-WEST

85 STREET NORTH-WEST

86 STREET NORTH-WEST

88 STREET NORTH-WEST

PALM WAY NORTH-WEST

APPLE WAY NORTH-WEST

WILLOW WAY NORTH-WEST

CEDAR WAY NORTH-WEST

ASPEN WAY NORTH-WEST

ASPEN DRIVE NORTH-WEST

201

1

LEGEND

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

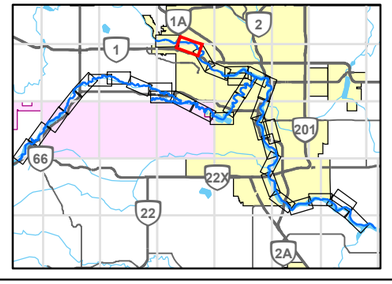
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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

25mm

0

Classification: Public

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:09:32 PM

LEGEND

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

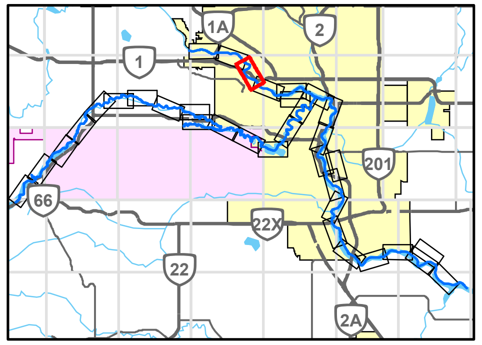
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M³/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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

25mm

Classification: Public

SHEET 3 ↑

SHEET 5 ↓

-10000

HARRY BOOTHMAN BRIDGE

VETERAN'S WAY NORTH-WEST

HOSPITAL DRIVE NORTH-WEST

11 AVENUE NORTH-WEST

TORONTO CRESCENT NORTH-WEST

6 AVENUE NORTH-WEST

3 AVENUE NORTH-WEST

1 AVENUE NORTH-WEST

5 AVENUE NORTH-WEST

WEST MOUNT ROAD NORTH-WEST

35A STREET NORTH-WEST

35 STREET NORTH-WEST

33 STREET NORTH-WEST

32 STREET NORTH-WEST

28 STREET NORTH-WEST

27 STREET NORTH-WEST

26 STREET NORTH-WEST

PARKDALE BOULEVARD NORTH-WEST

WEST HILLHURST BERM

Bow River

WILDWOOD DRIVE SOUTH-WEST

SPRUCE DRIVE SOUTH-WEST

CEDAR CRESCENT SOUTH-WEST

WIMBLEDON CRESCENT SOUTH-WEST

WHITE OAK CRESCENT SOUTH-WEST

42 STREET SOUTH-WEST

WATERLOO DRIVE SOUTH-WEST

HEMLOCK CRESCENT SOUTH-WEST

CROWCHILD TRAIL BRIDGE

RS 67219 RS 57087 RS 57049 RS 56927 RS 56729 RS 56563 RS 56397 RS 56076 RS 55902 RS 55691 RS 55434 RS 55392 RS 54971 RS 54672 RS 54403 RS 54141 RS 53940 RS 53650 RS 53573 RS 53476 RS 53263 RS 53127 RS 53059 RS 52941 RS 52701 RS 52614 RS 52491 RS 52228 RS 52076 RS 52022

XS#70 XS#71 XS#72 XS#73 XS#74 XS#75 XS#76 XS#77 XS#78 XS#79 XS#80 XS#81 XS#82 XS#83 XS#84 XS#85 XS#86 XS#87 XS#88 XS#89 XS#90

DRAFT

LEGEND

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

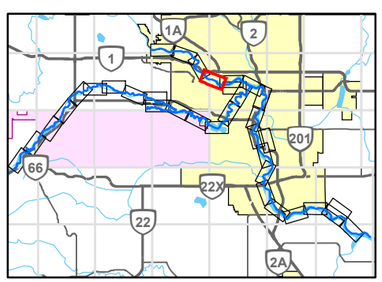
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

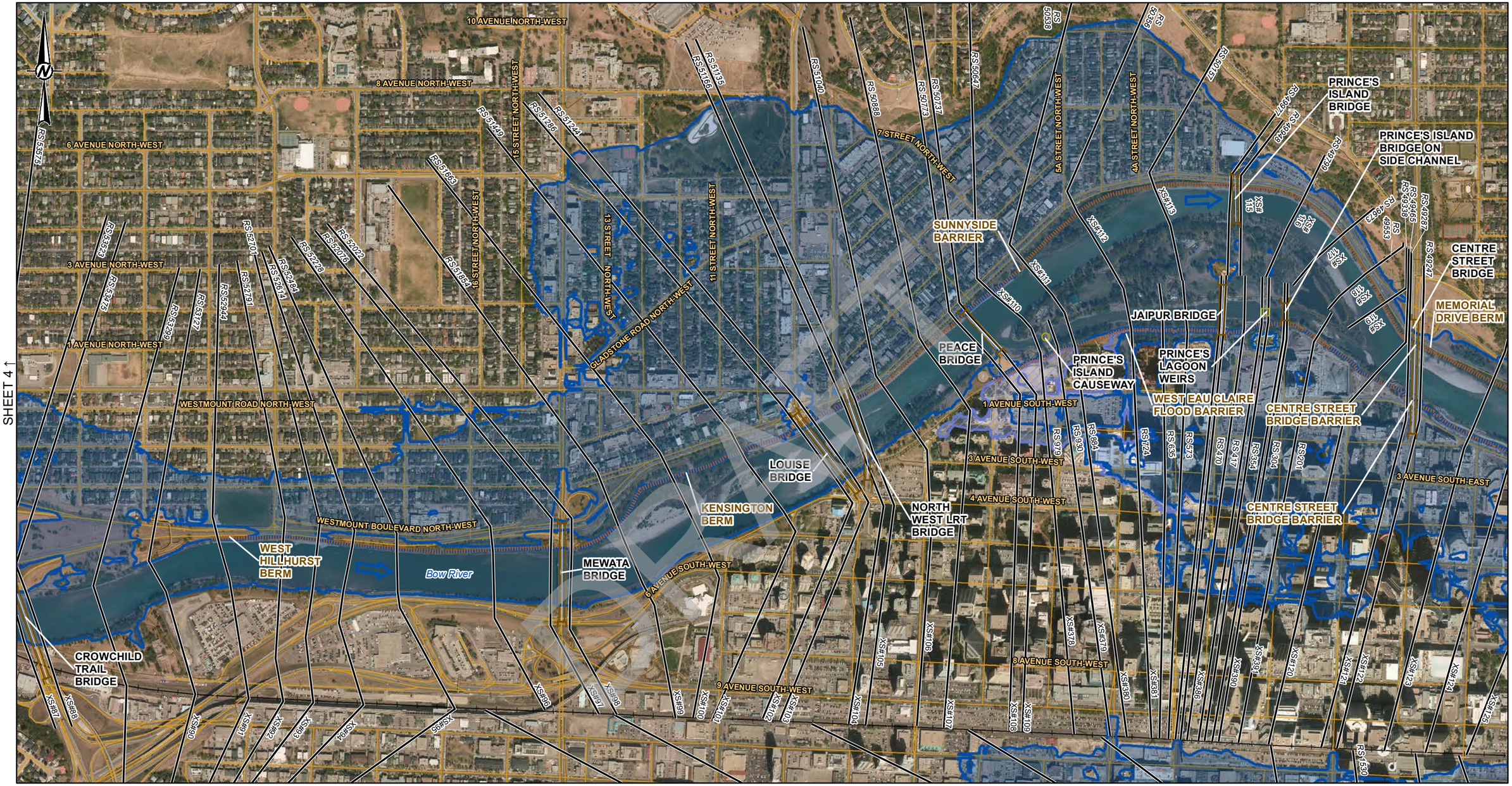
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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

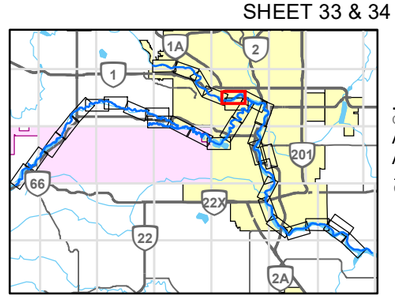
25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:04:12 PM

Classification: Public



SHEET 33 & 34 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

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

25mm

0

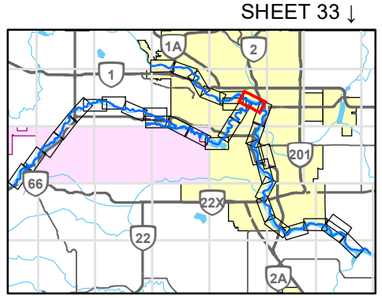
C:\GTH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020(b)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:05:48 PM

Classification: Public

SHEET 5 ↑

SHEET 7 ↓

SHEET 33 ↓



LEGEND

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

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1140 M^3/S
BOW RIVER BELOW ELBOW RIVER = 3050 M^3/S
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

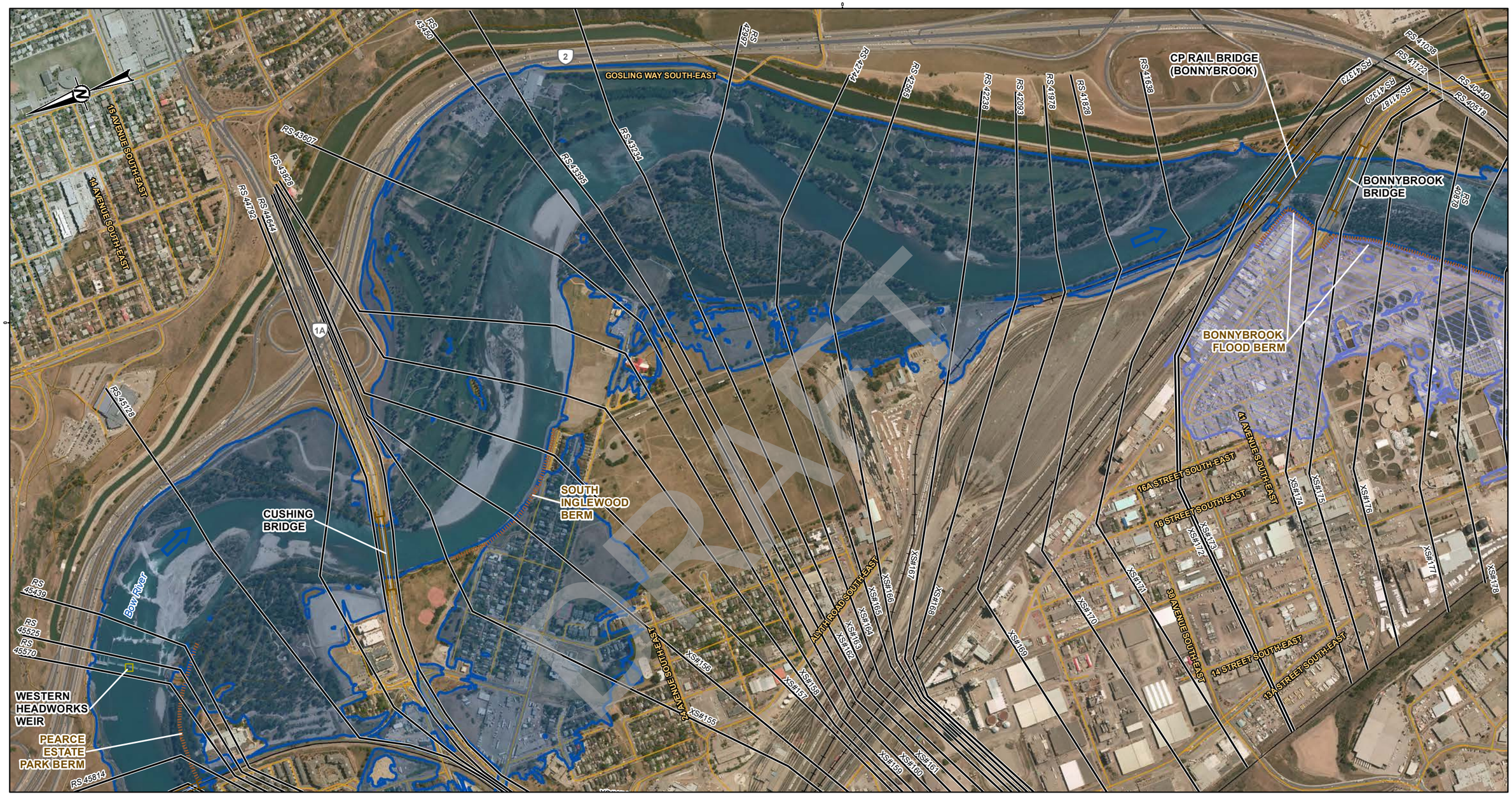
TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:07:33 PM

Classification: Public



SHEET 8 ↓

SHEET 5 ↓

LEGEND

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

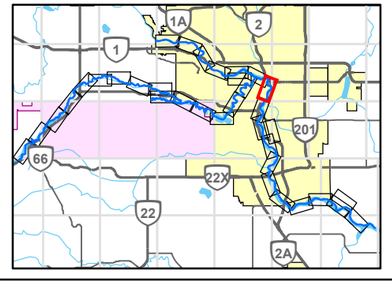
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0310v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:09:00 PM

Classification: Public

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40515
RS 40788
RS 40663
RS 40378
RS 40374
RS 40254
RS 40065
RS 39997
RS 39942
RS 39634
RS 39597
RS 39577
RS 39436
RS 39313
RS 39262
RS 39120
RS 38965
RS 38775
RS 38662
RS 38513
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 3166
RS 37530
RS 37460
RS 37417
RS 37301
RS 37029
RS 36882
RS 36741
RS 36303

CALF ROBE BRIDGE
CN RAIL BRIDGE
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
18 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
10 STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

5650000

LEGEND

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

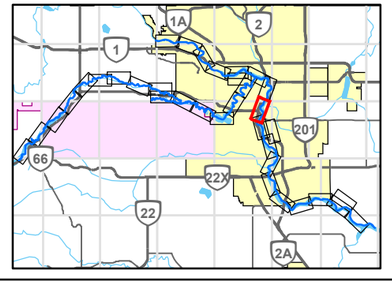
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_ElbowMapping\Products\Hydrology\04 _Open Water Flood Inundation Map Production\Rev0\21452576_ 02\0\y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:10:34 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

RS 37689

RS 37630

RS 37480

RS 37301

RS 37029

RS 36892

RS 36714

RS 36303

RS 36008

RS 35736

RS 35575

RS 35419

RS 35202

RS 35123

RS 34889

RS 34780

RS 34758

RS 34557

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

18 STREET SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

Bow River

XS#210

XS#211

XS#212

XS#213

XS#214

XS#215

XS#216

XS#217

XS#218

XS#219

XS#220

XS#221

XS#222

XS#223

XS#224

XS#225

XS#226

XS#227

XS#228

XS#229

XS#230

XS#231

XS#232

2

DRAFT

LEGEND

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

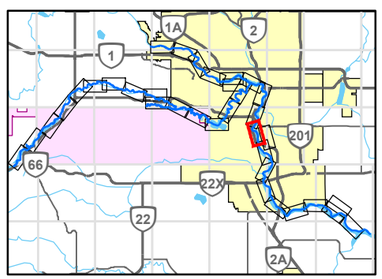
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:11:53 PM

Classification: Public

LEGEND

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

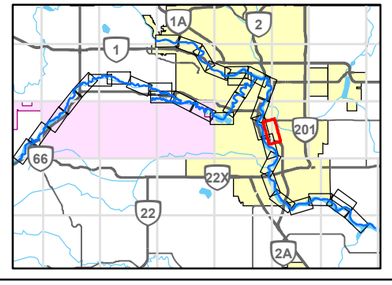
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:13:04 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

LEGEND

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

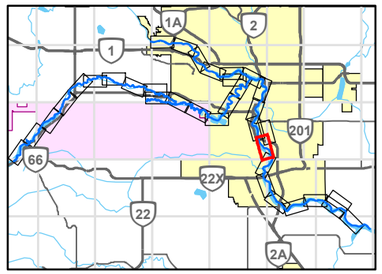
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

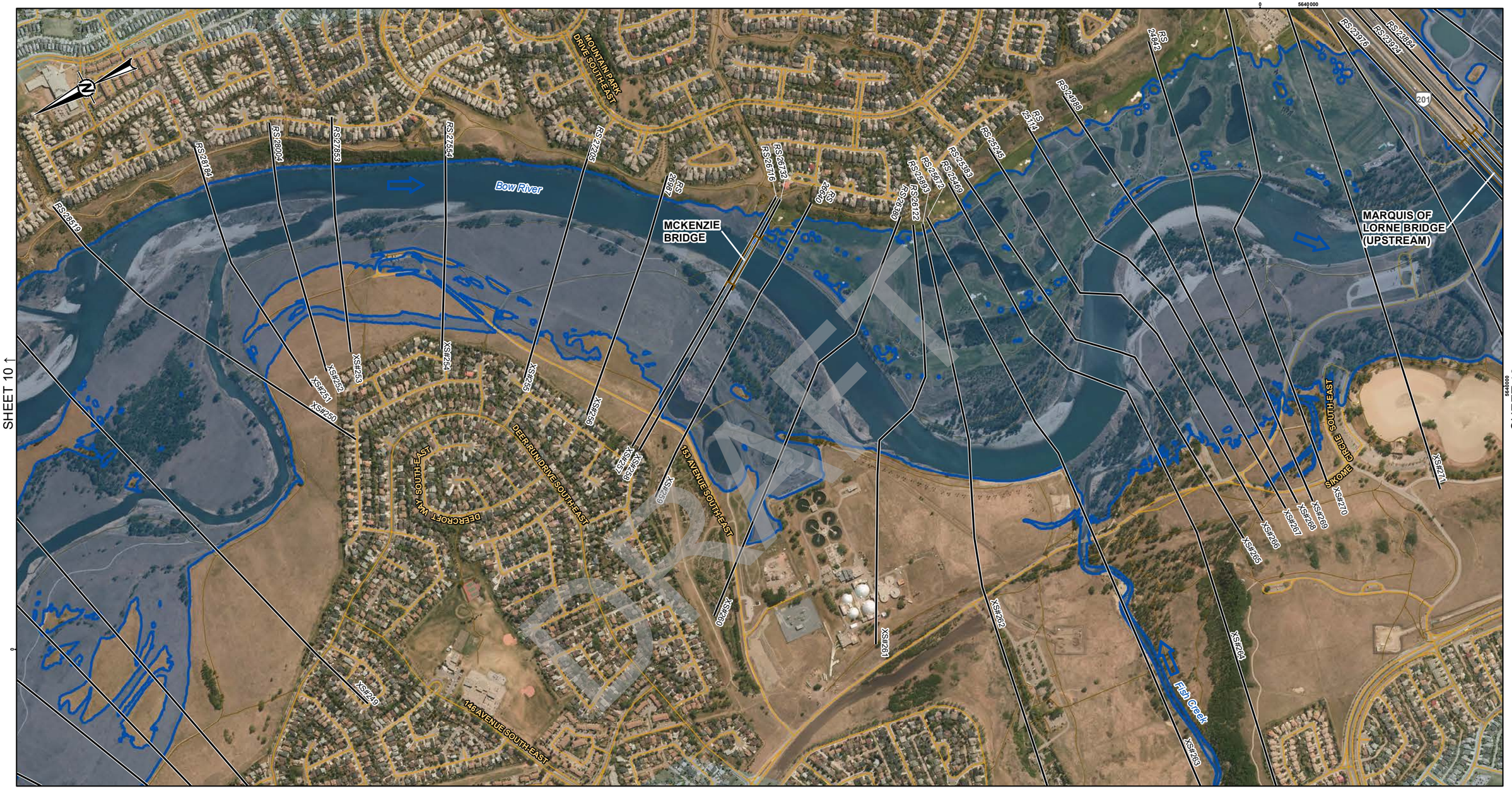
TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0201y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:14:18 PM

Classification: Public



SHEET 10 ↑

SHEET 12 ↓

DRAFT

LEGEND

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

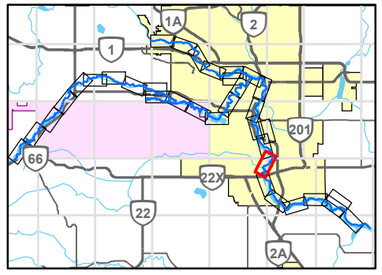
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3090 M^3/S
BOW RIVER BELOW FISH CREEK = 3340 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

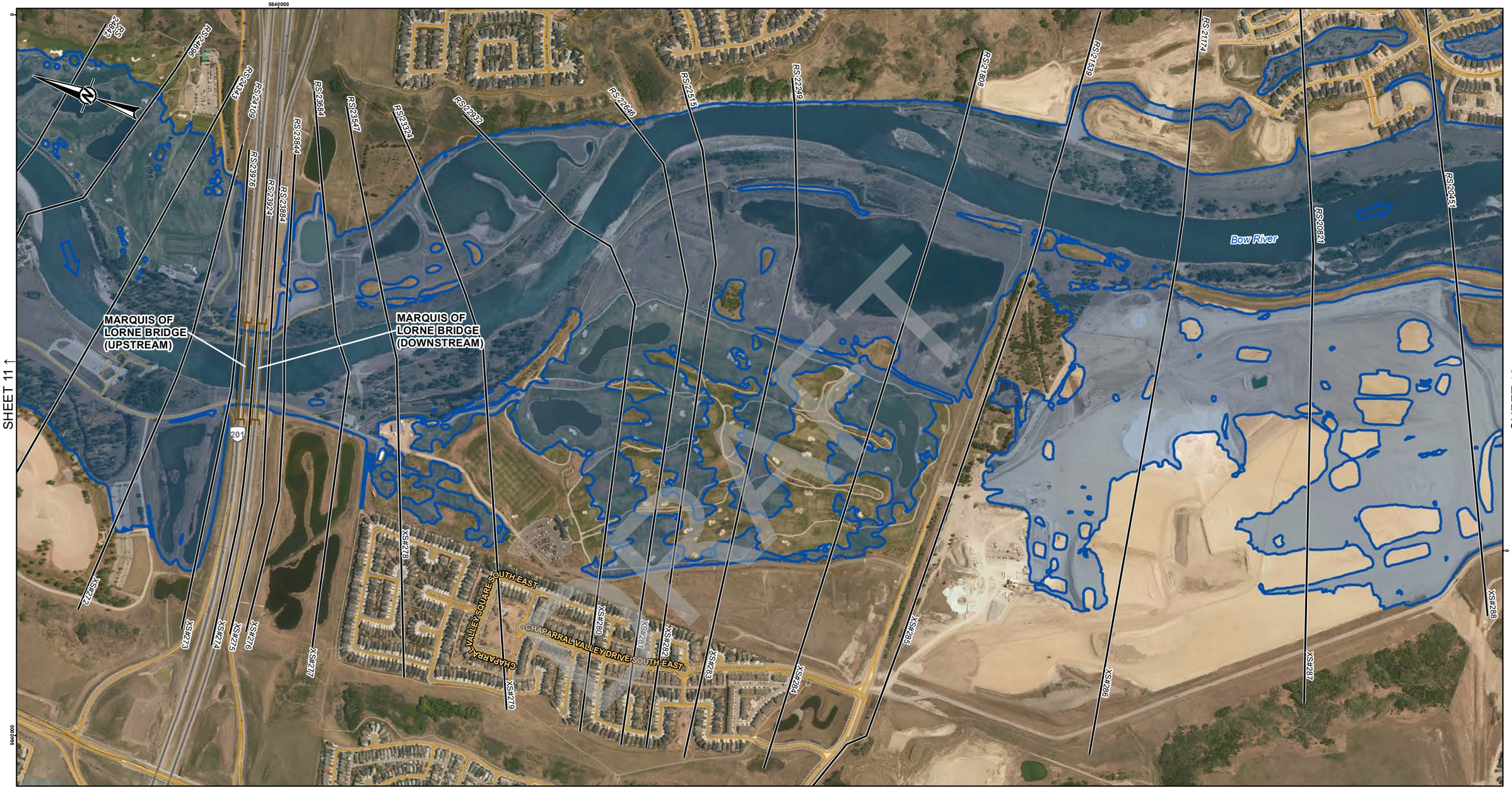
TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0201y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:15:56 PM

Classification: Public



SHEET 11 ↑

SHEET 13 ↓

LEGEND

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

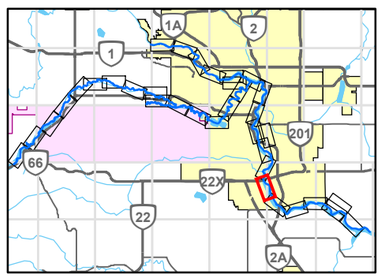
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 3340 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:17:27 PM

Classification: Public

LEGEND

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

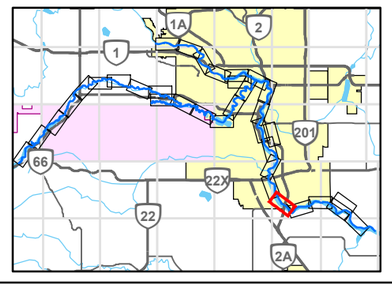
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW FISH CREEK = 3340 M^3/S
BOW RIVER BELOW PINE CREEK = 3390 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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

25mm

0

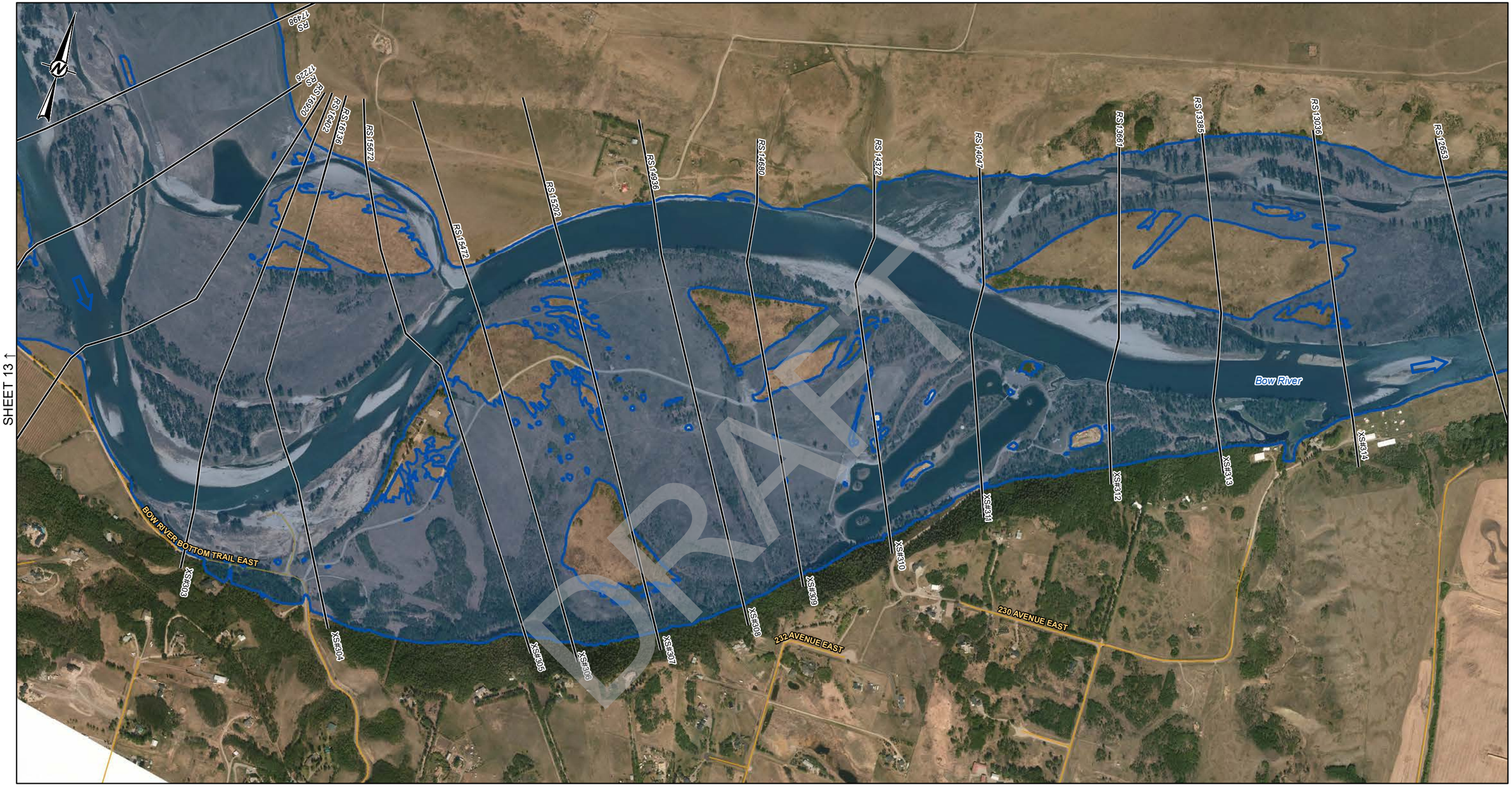
DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:18:53 PM

Classification: Public

SHEET 13 ↑

SHEET 15 ↓



DRAFT

LEGEND

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

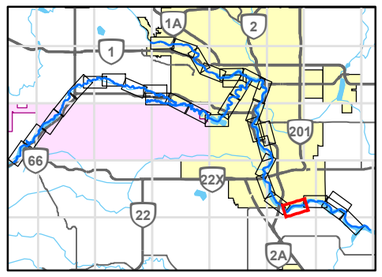
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 3390 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

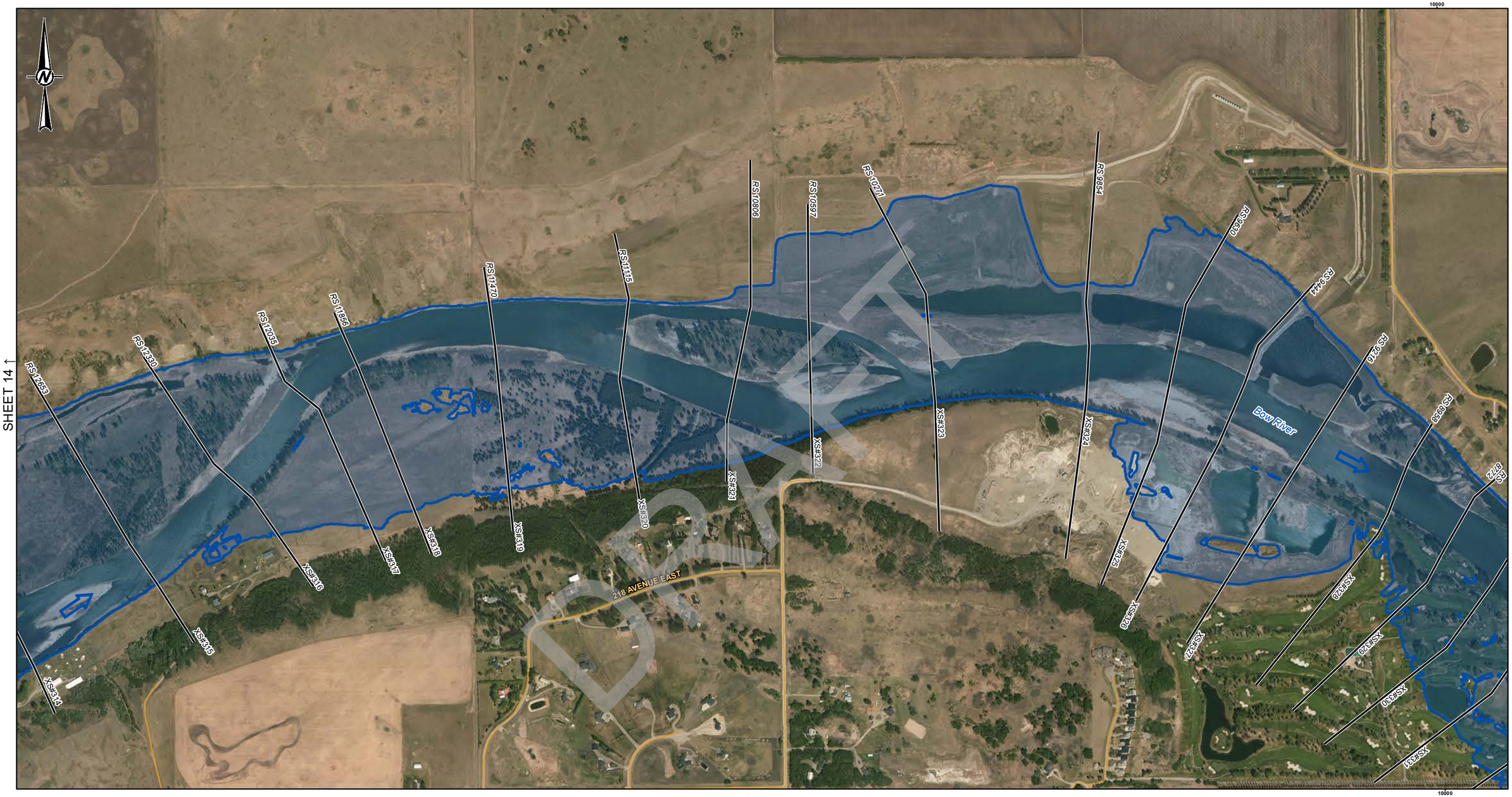
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:20:09 PM

Classification: Public



LEGEND

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

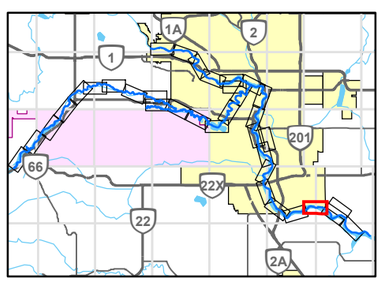
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER BELOW PINE CREEK = 3390 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 3440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0210v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:21:06 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

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

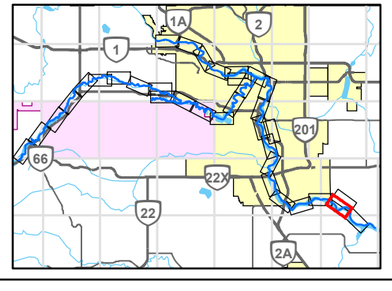
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 3440 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

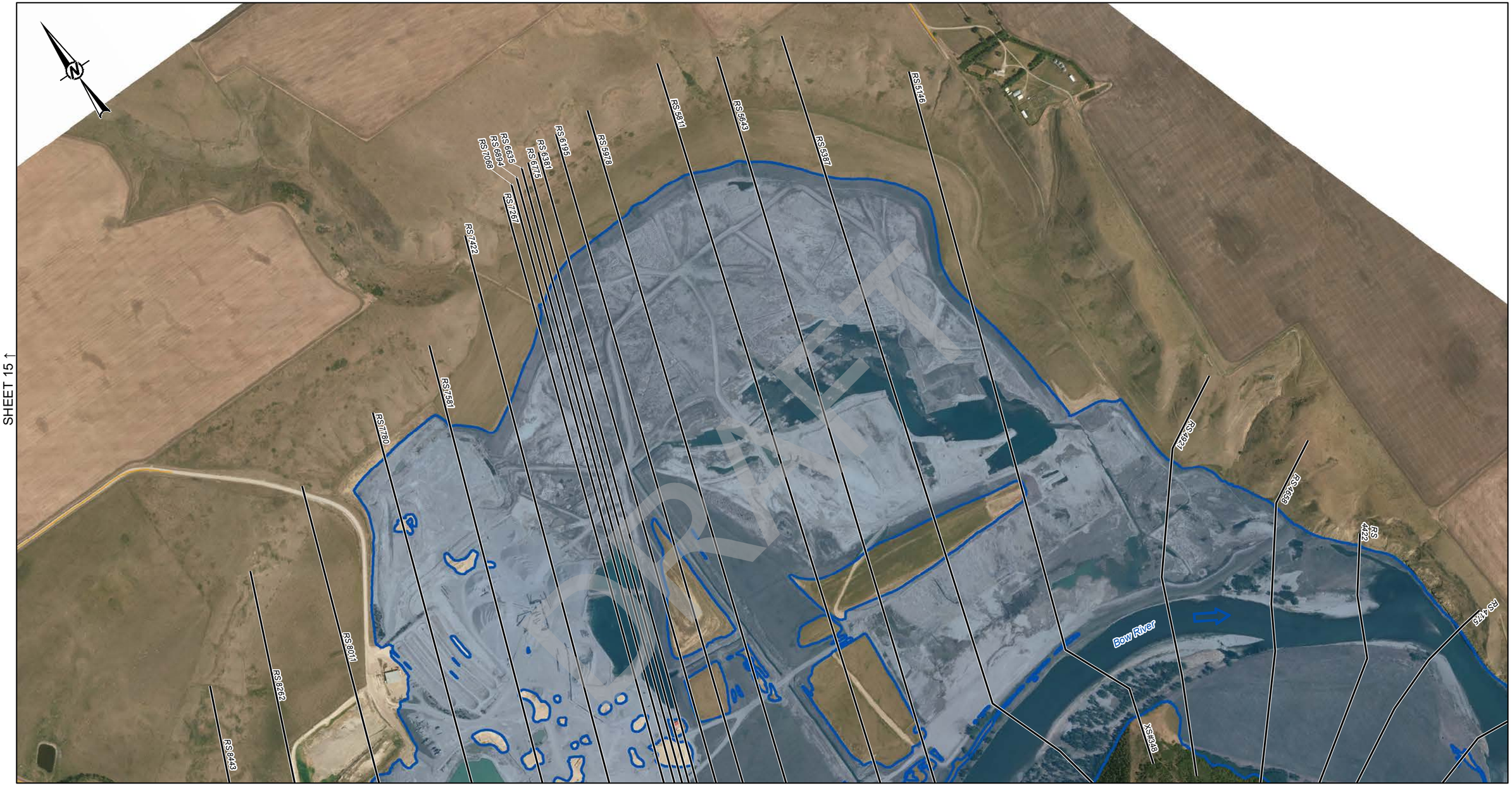
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02(0)y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:22:25 PM

Classification: Public



LEGEND

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

HYDRAULIC STRUCTURES

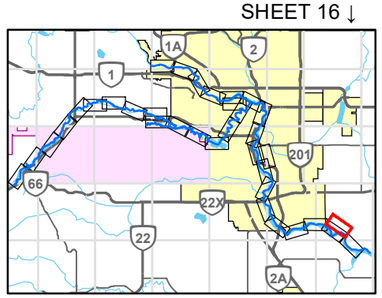
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 3440 M^3/S

SHEET 16 ↓



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_02(0)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:23:38 PM

Classification: Public

LEGEND

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

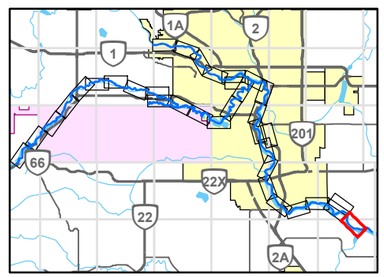
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 3440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

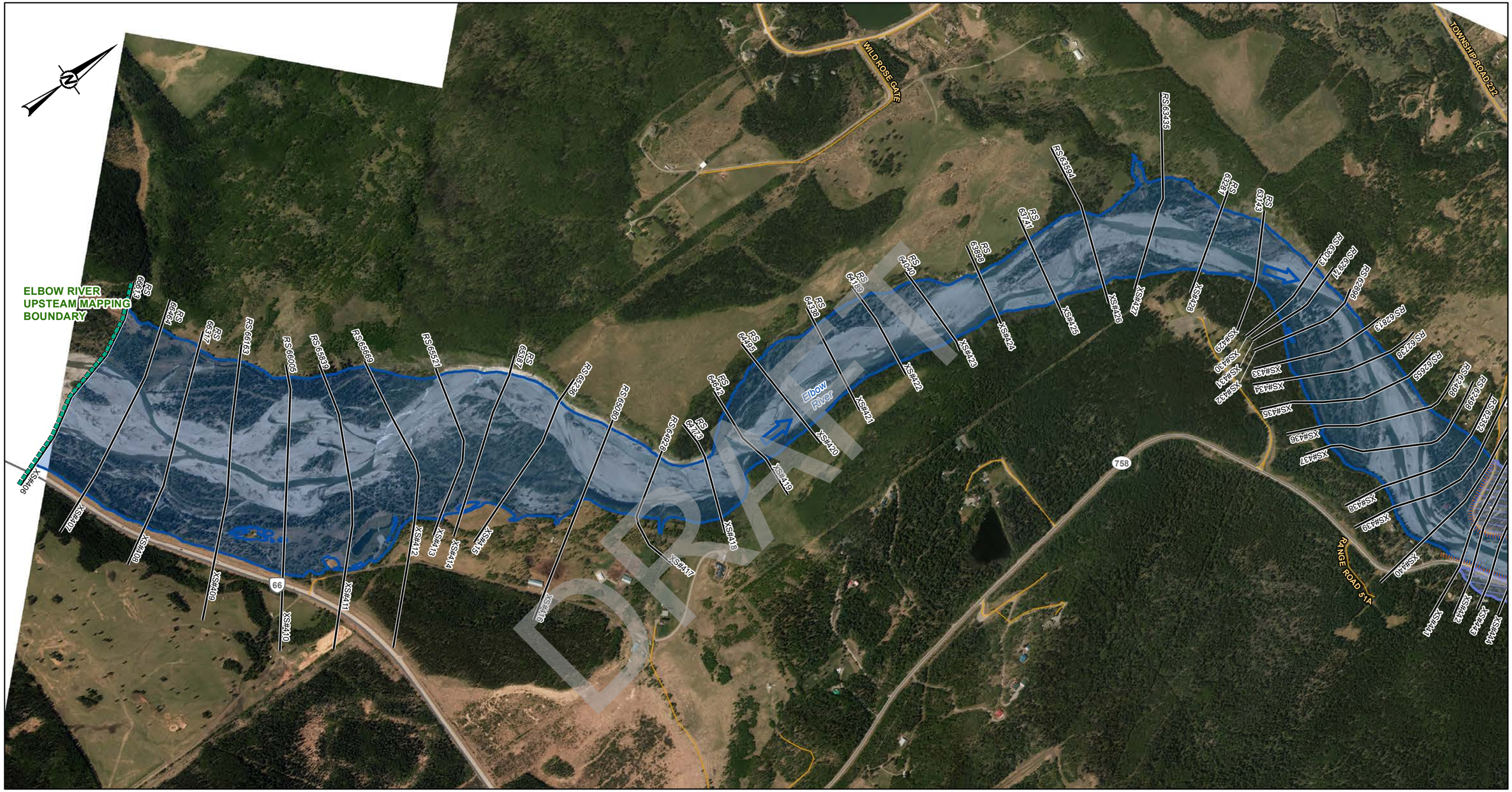
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02(b)y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:24:46 PM

Classification: Public



LEGEND

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

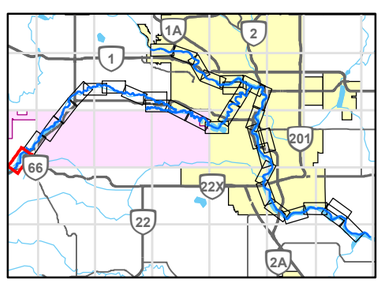
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

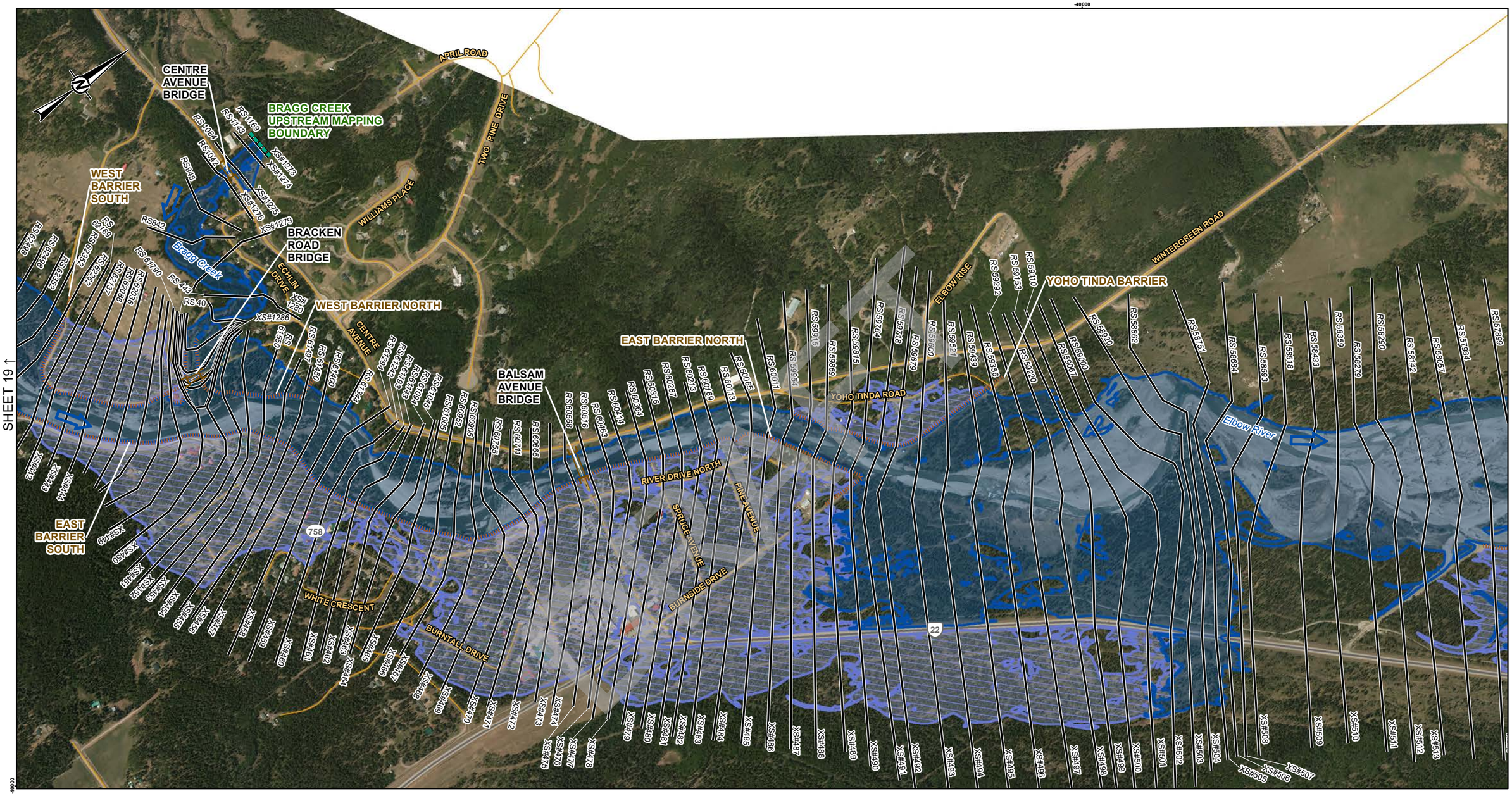
SHEET 20 →

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_02(0)y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:26:08 PM

Classification: Public



LEGEND

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

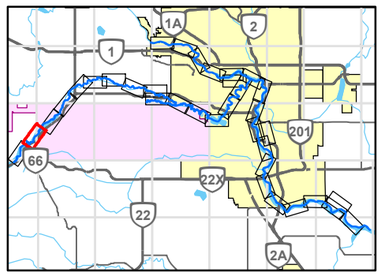
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S
BRAGG CREEK = 61.4 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

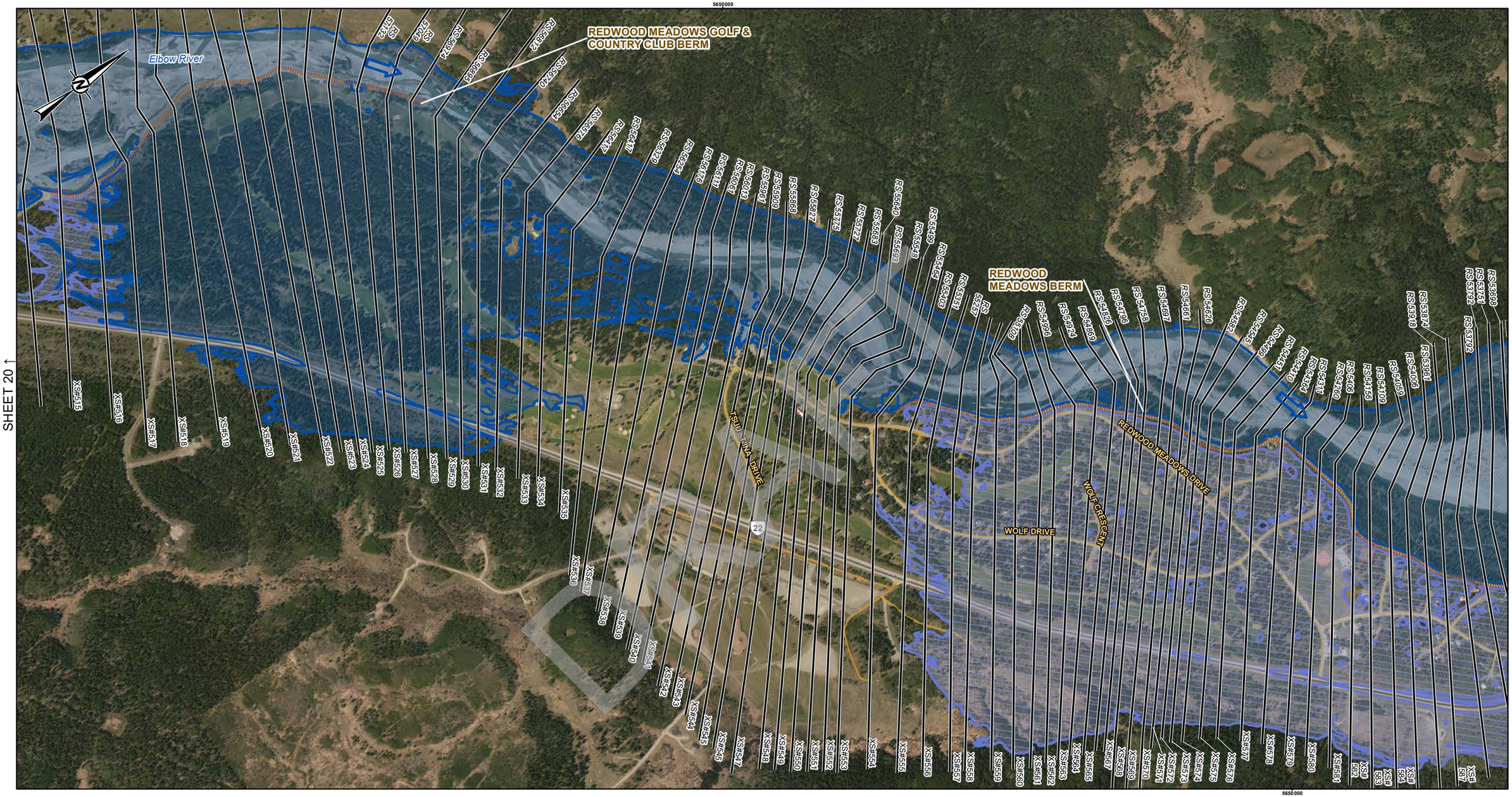
TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0201y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:27:22 PM

Classification: Public



LEGEND

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

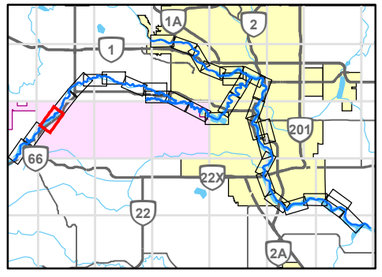
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0201y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:28:35 PM

Classification: Public

SHEET 21 ↑

SHEET 23 ↓

REDWOOD MEADOWS BERM

SLEIGH DRIVE

MANYHORSES DRIVE

RANGE ROAD 42

Elbow River

RS 55557 RS 55397 RS 55444 RS 55389 RS 55761 RS 55782 RS 55792 RS 63343 RS 55227 RS 63272 RS 53162 RS 53120 RS 53078 RS 55057 RS 53003 RS 52971 RS 52909 RS 52838 RS 52784 RS 52702 RS 52659 RS 52640 RS 52570 RS 52516 RS 52446 RS 52396 RS 52282 RS 52220 RS 52124 RS 52055 RS 51947 RS 51877 RS 51759 RS 51679 RS 51579 RS 51459 RS 51341 RS 51232 RS 51173 RS 51067 RS 50932 RS 50834 RS 50739 RS 50623 RS 50539 RS 50202 RS 50099 RS 50000 RS 49908 RS 49806 RS 49713 RS 49619

XS#597 XS#599 XS#600 XS#601 XS#602 XS#603 XS#604 XS#605 XS#606 XS#607 XS#608 XS#609 XS#610 XS#611 XS#612 XS#613 XS#614 XS#615 XS#616 XS#617 XS#618 XS#619 XS#620 XS#621 XS#622 XS#623 XS#624 XS#625 XS#626 XS#627 XS#628 XS#629 XS#630 XS#631 XS#632 XS#633 XS#634 XS#635 XS#636 XS#637 XS#638 XS#639 XS#640 XS#641 XS#642 XS#643 XS#644 XS#645 XS#646 XS#647 XS#648 XS#649 XS#650 XS#651 XS#652 XS#653

22 22X 2A

DRAFT

LEGEND

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

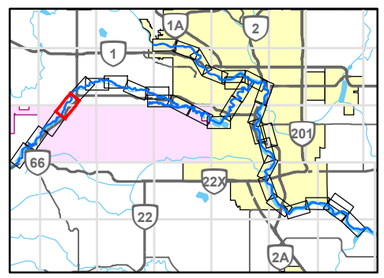
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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

25mm

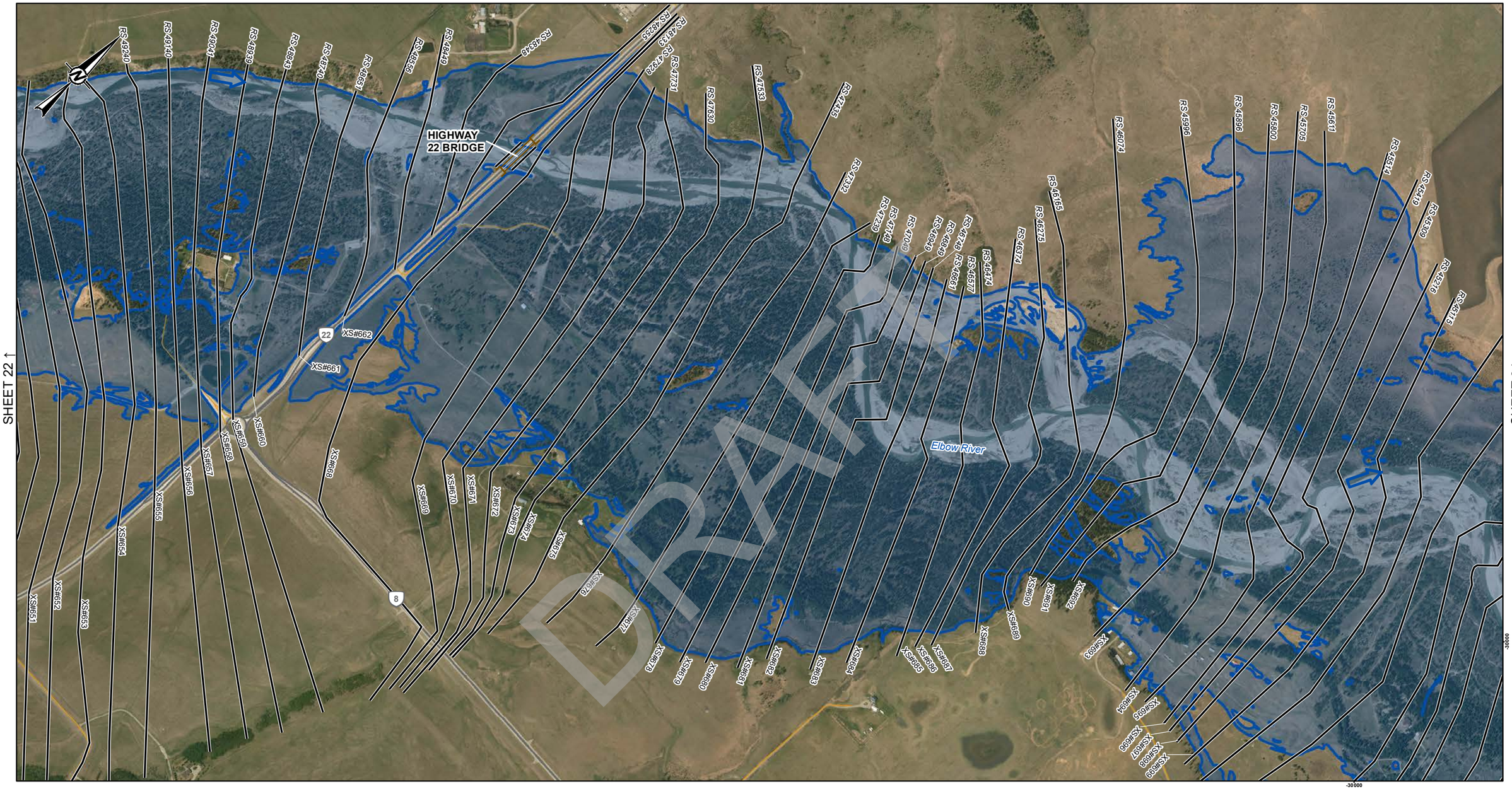
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:29:46 PM

Classification: Public

SHEET 22 ↑

SHEET 24 ↓



DRAFT

LEGEND

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

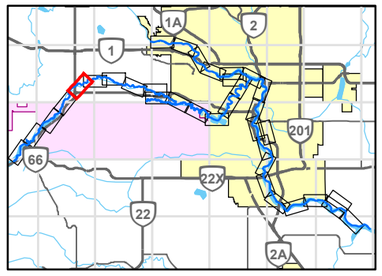
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

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

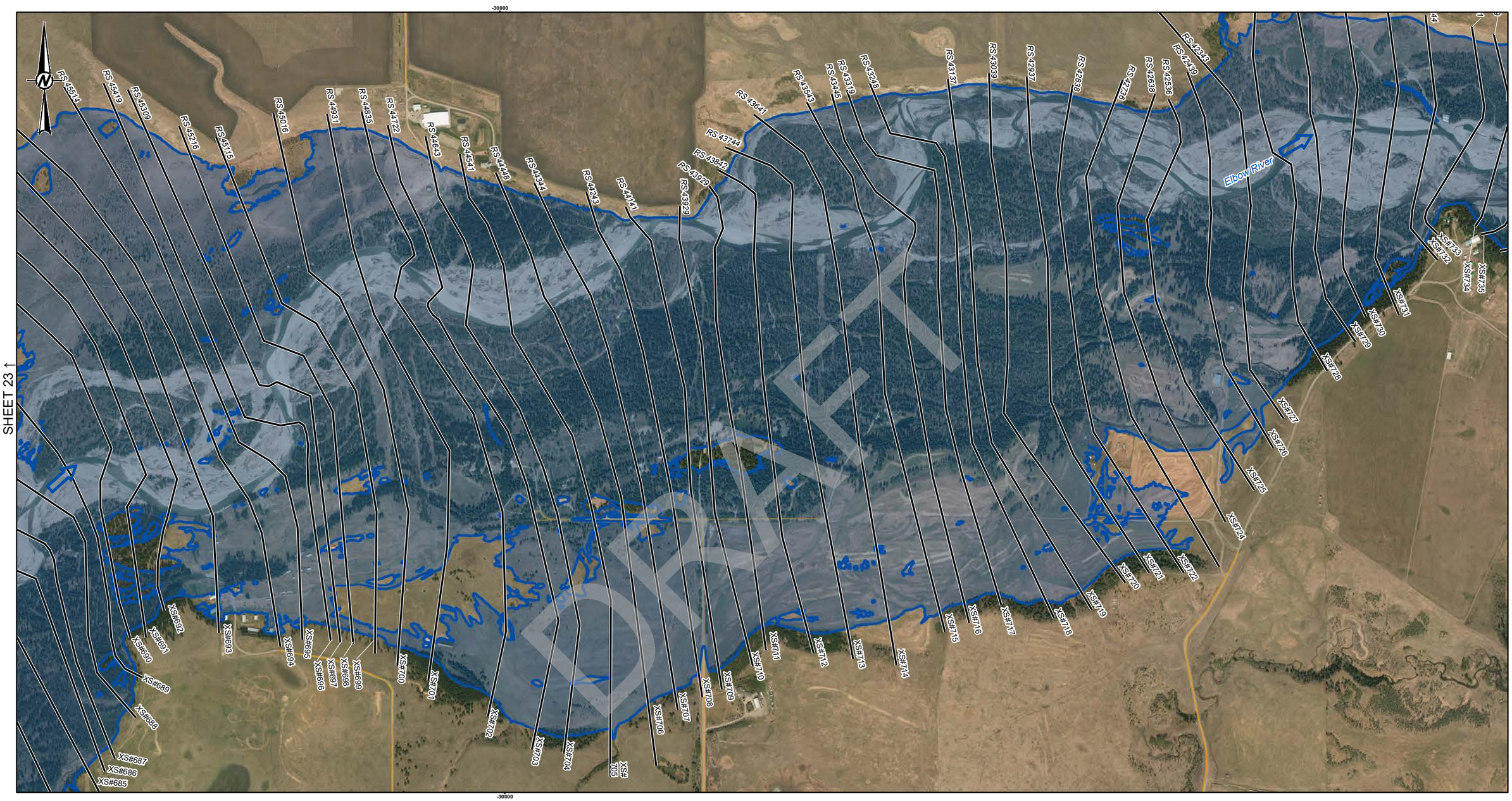
25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:39:53 PM

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMap.prjng\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:3 1:47 PM



DRAFT

LEGEND

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

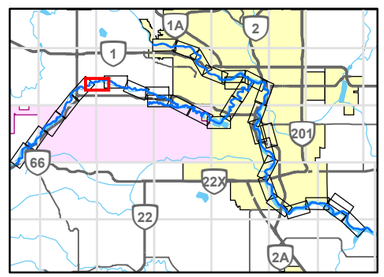
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

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

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

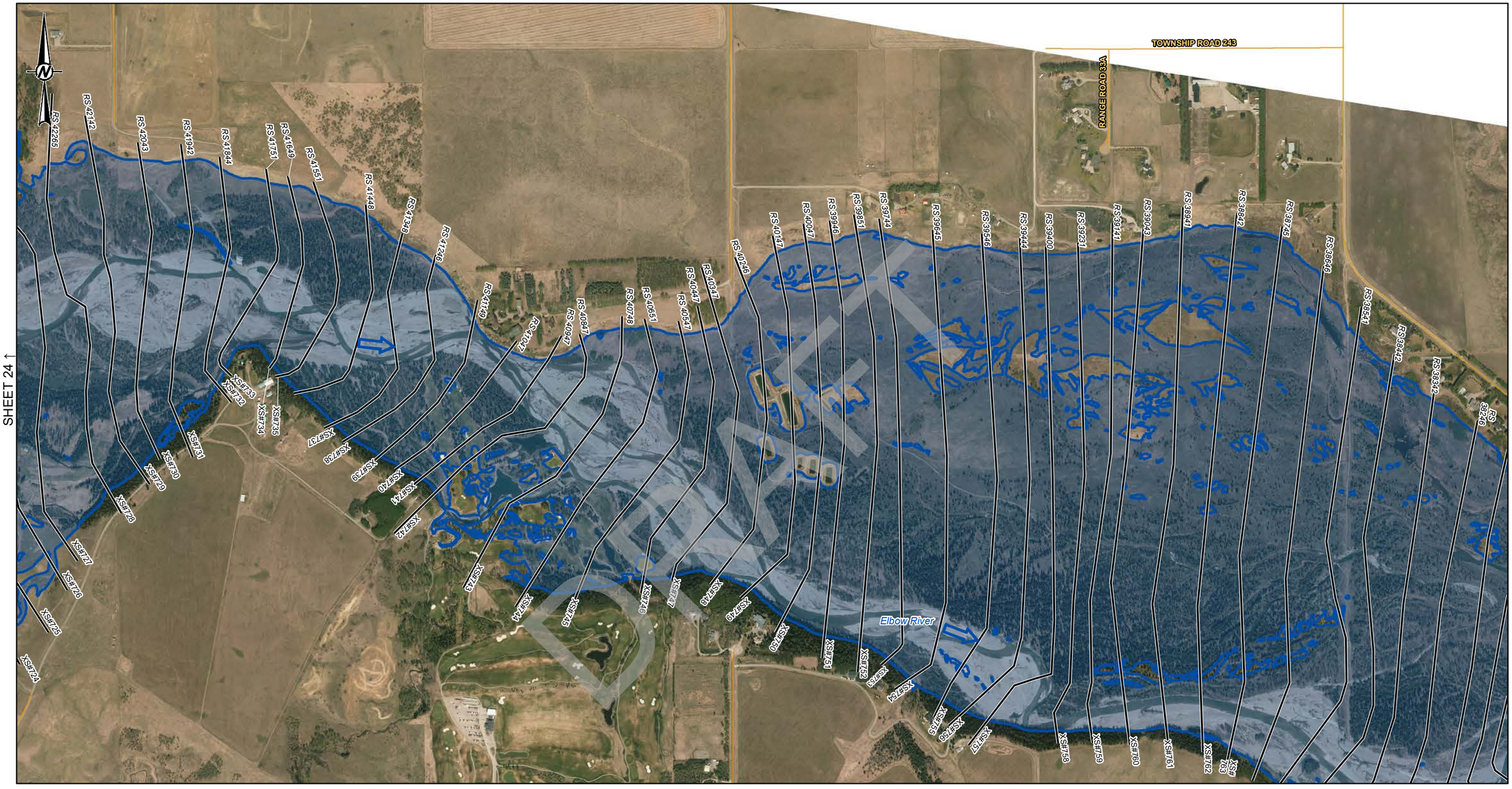
PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

0 25mm
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

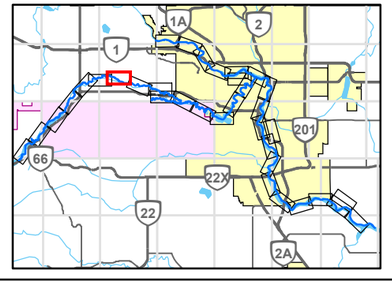
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

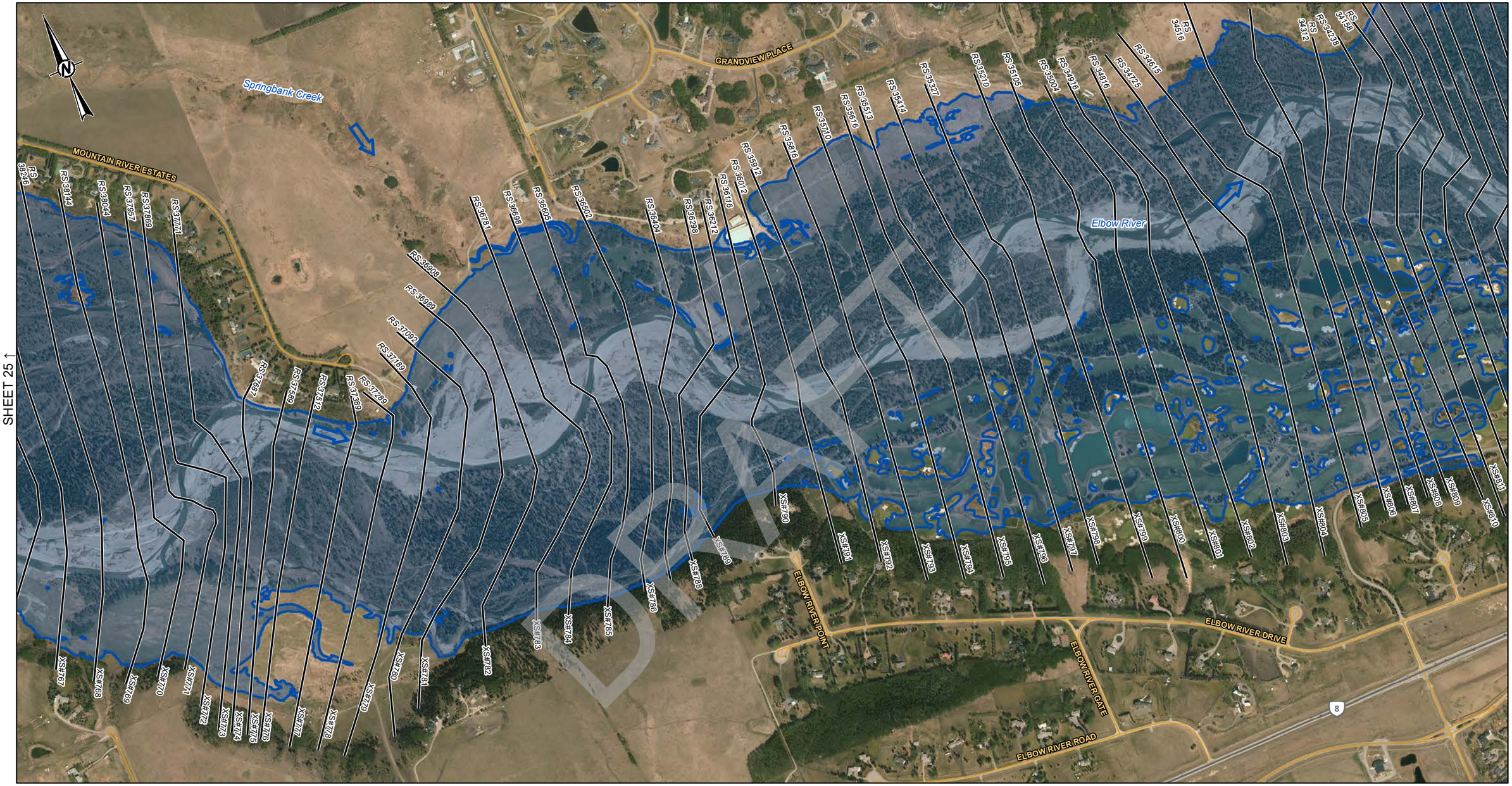
25mm

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:32:34 PM

SHEET 25 ↑

SHEET 27 ↓



DRAFT

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

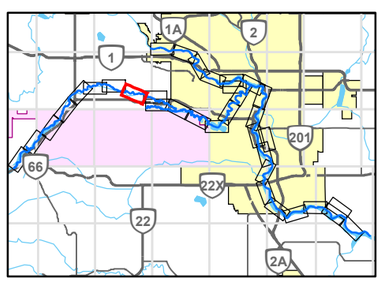
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1140 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

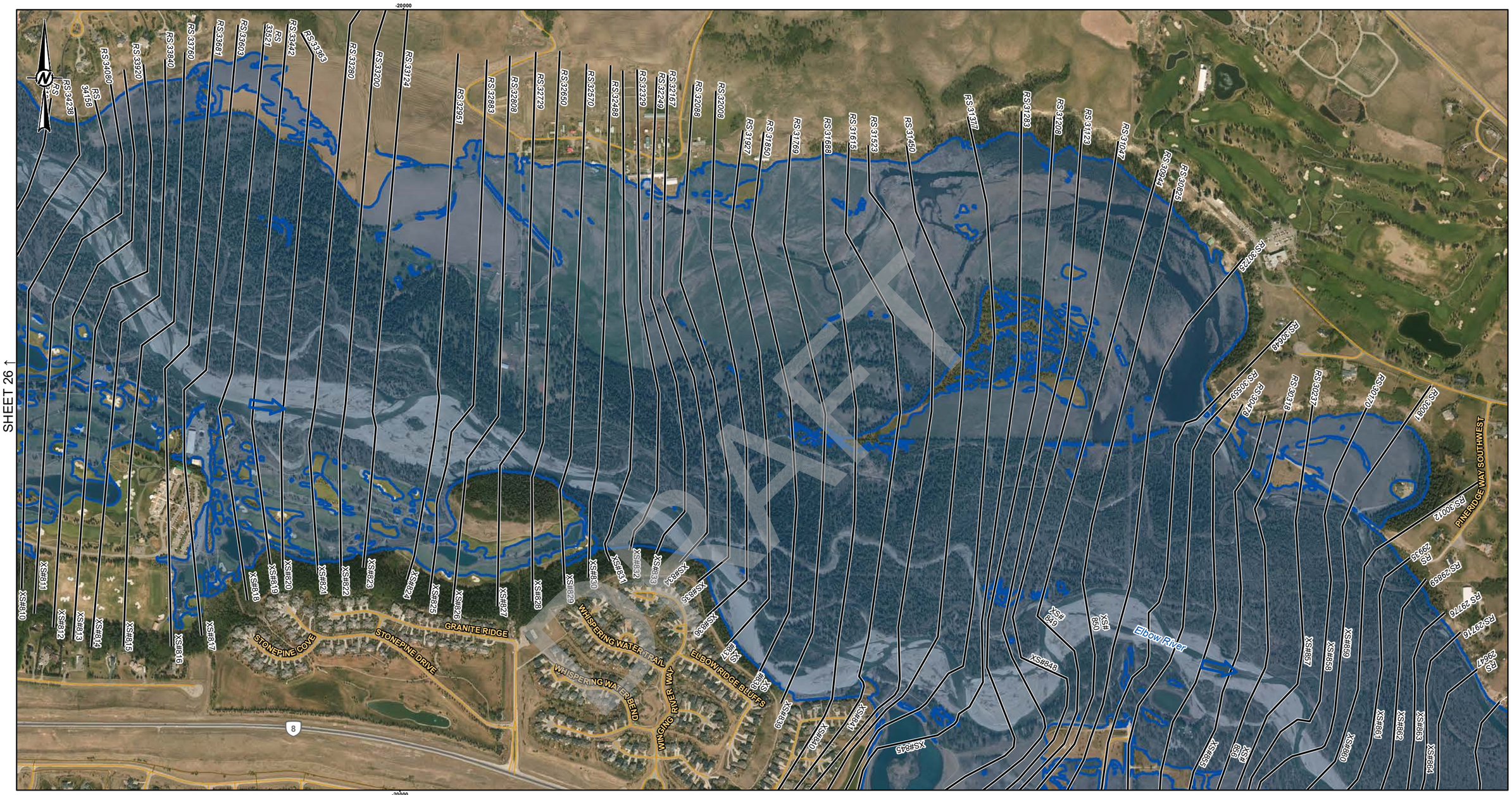
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_020b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:33:40 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

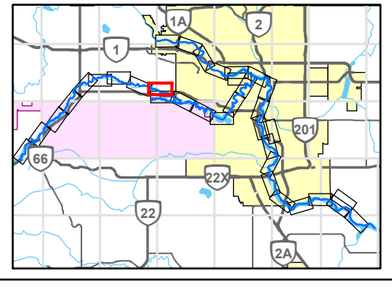
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S
LOTT CREEK = 37.7 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

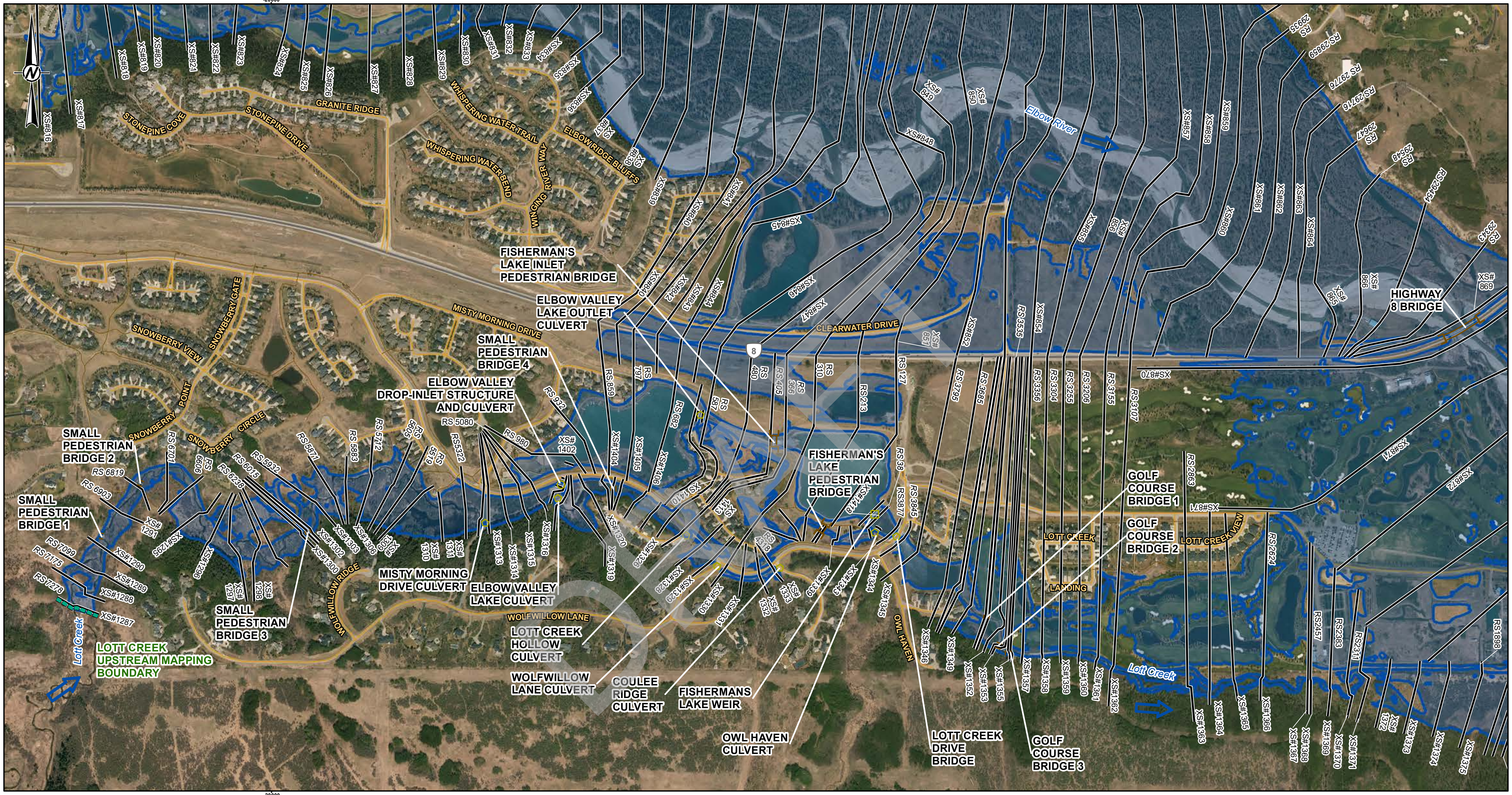
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0210y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:35:17 PM

Classification: Public

SHEET 27 ↑



SHEET 29 →

LEGEND

	CROSS SECTION
XS#100	CROSS SECTION NUMBER
RS 304	RIVER STATION (M)
	STUDY BOUNDARY
	FLOW DIRECTION
	LOCAL ROAD
	PATHWAY
	PRIMARY HIGHWAY
	SECONDARY HIGHWAY
	RAILWAY

FLOOD CONTROL STRUCTURE

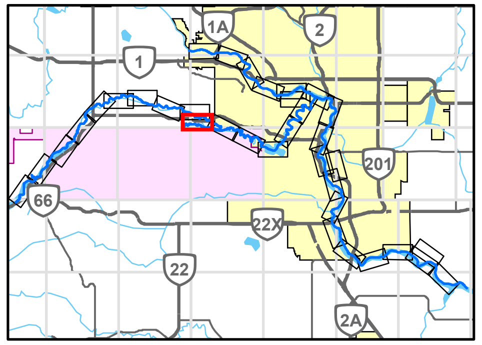
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S
LOTT CREEK = 37.7 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:36:59 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

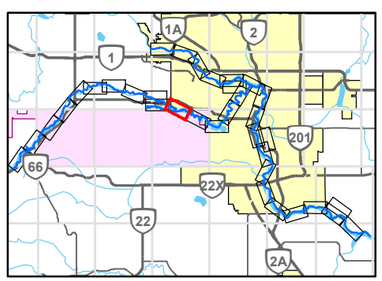
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S
LOTT CREEK = 37.7 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

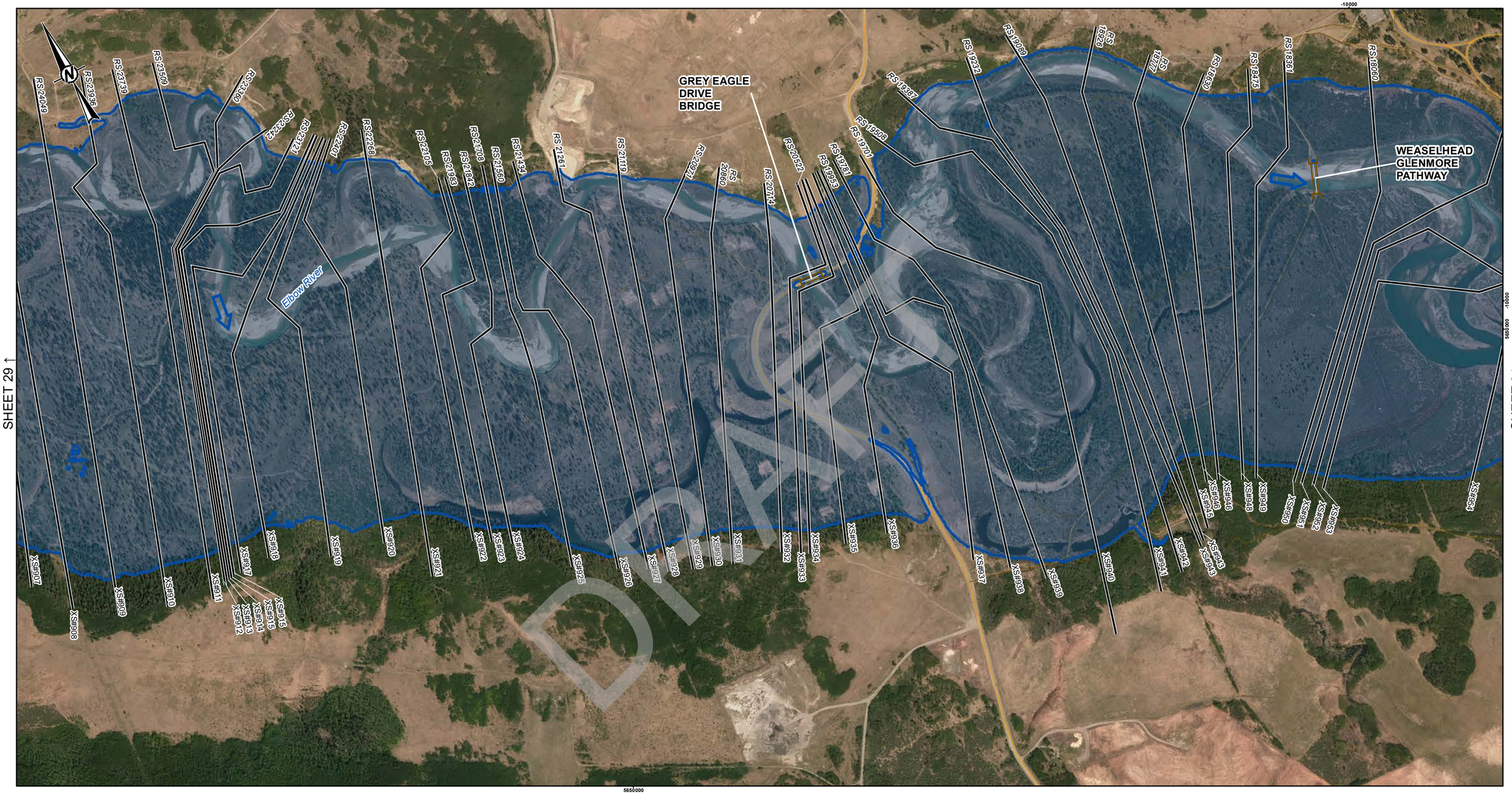
TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0210v-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:39:08 PM

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

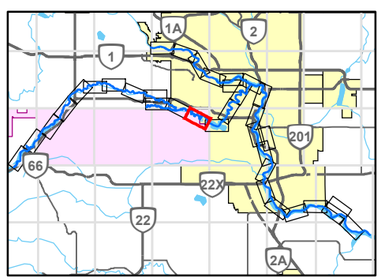
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

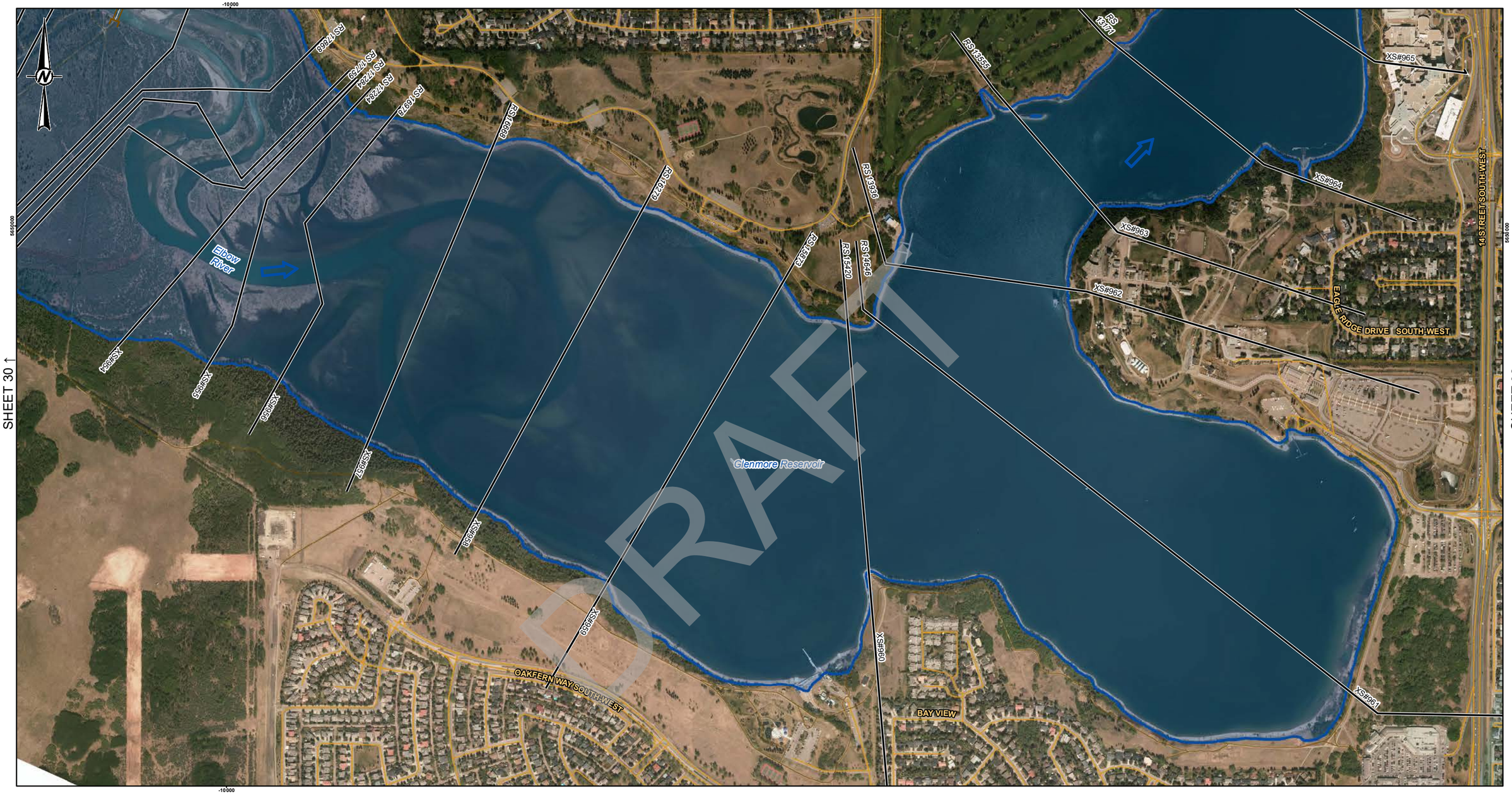
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0010y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:41:15 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

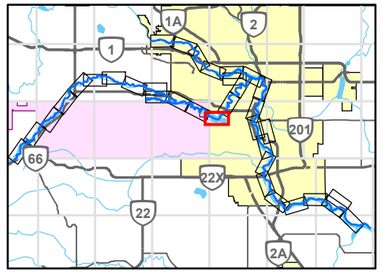
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1140 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

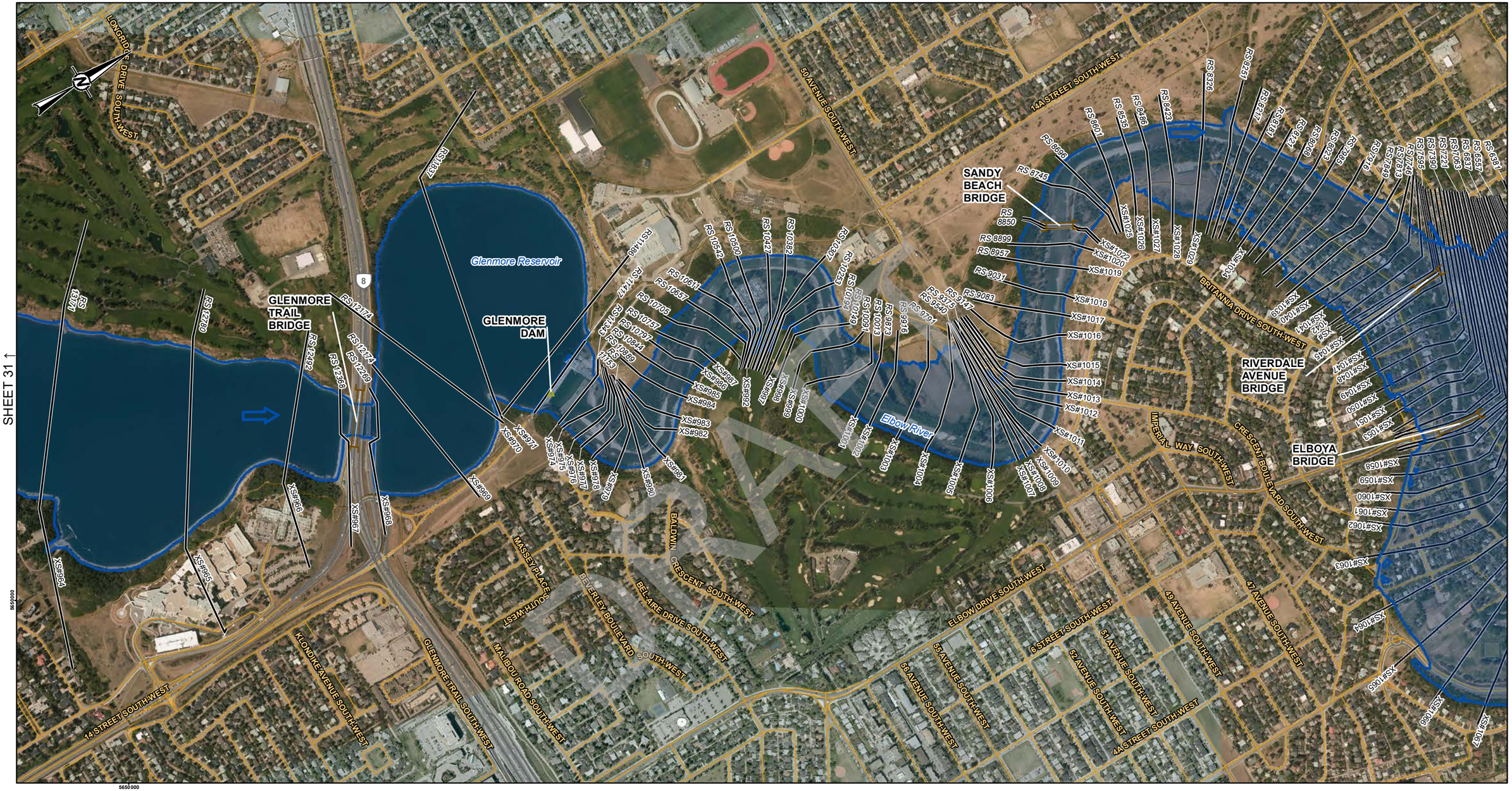
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0209y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:43:03 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

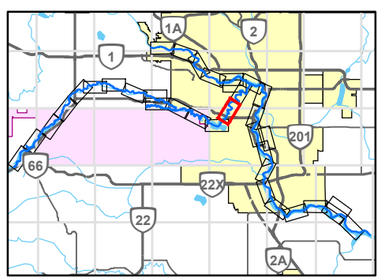
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 1140 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

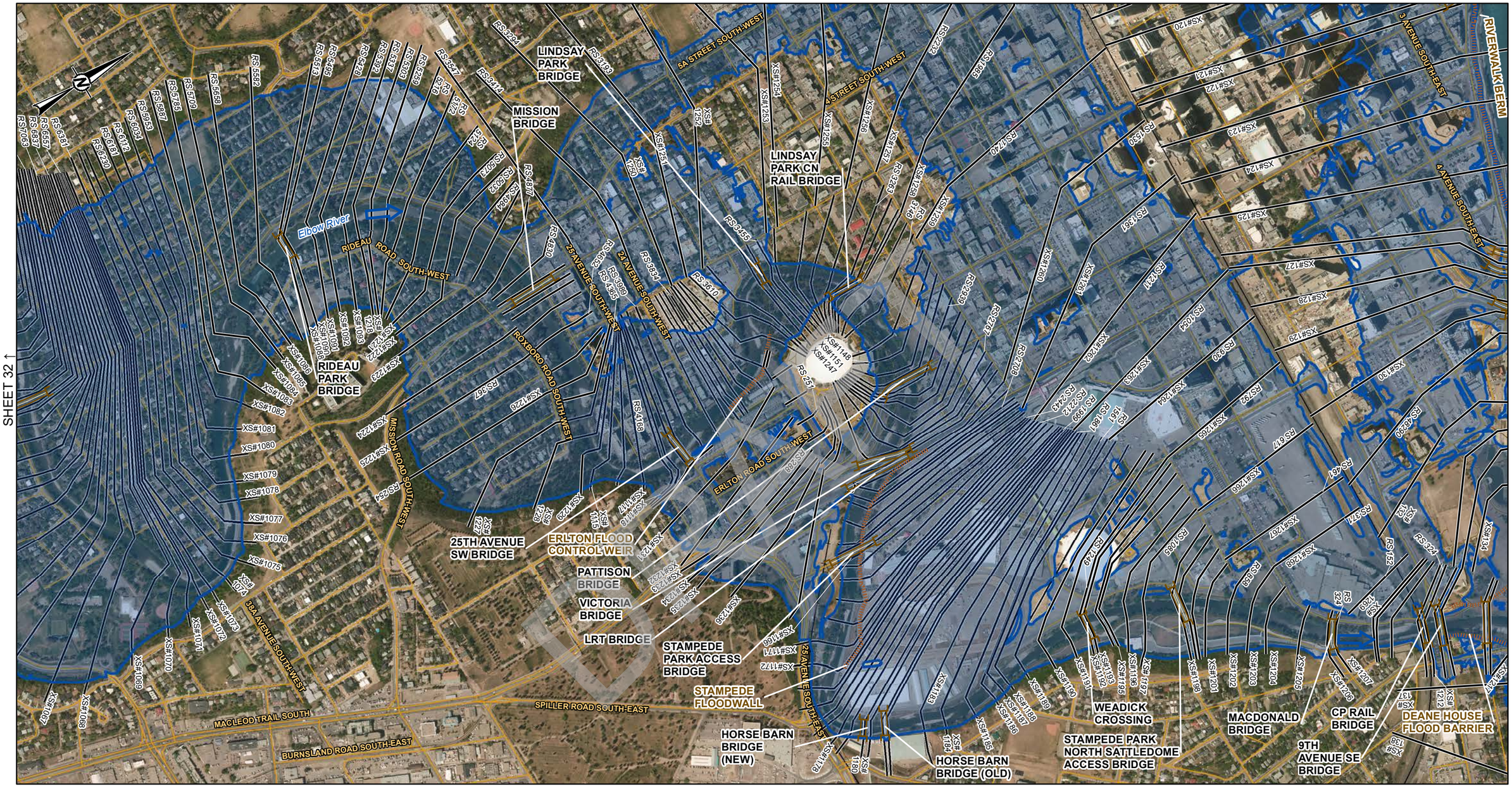
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_f0209y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:45:11 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

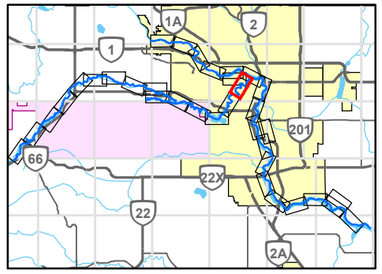
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1140 M^3/S
BOW RIVER BELOW ELBOW RIVER = 3050 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

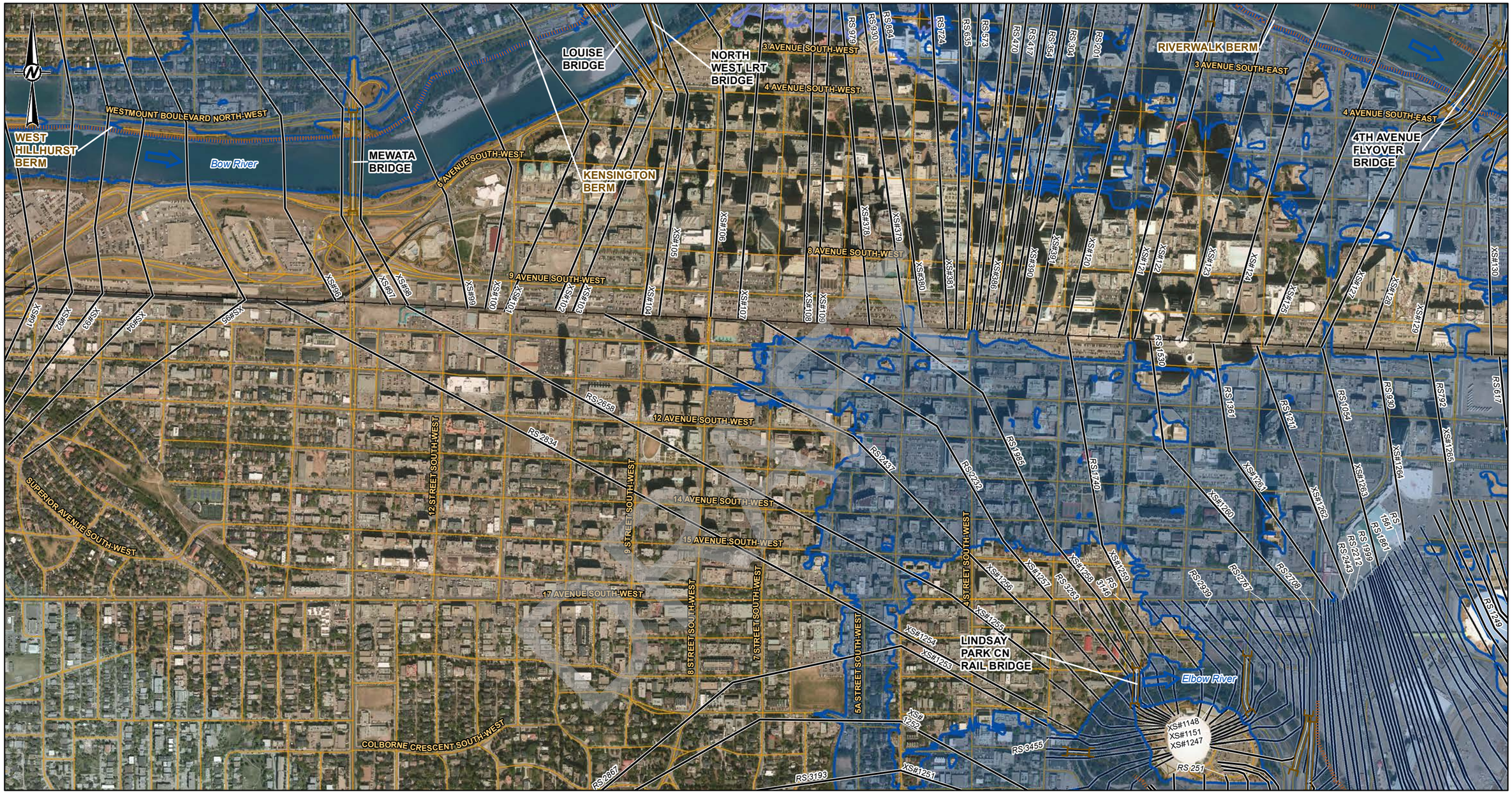
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0201y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:47:00 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

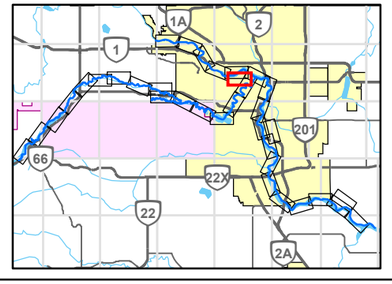
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

200-YEAR FLOOD INUNDATION EXTENT

- 200-YEAR FLOOD EXTENT
- 200-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 2710 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1140 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
200-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

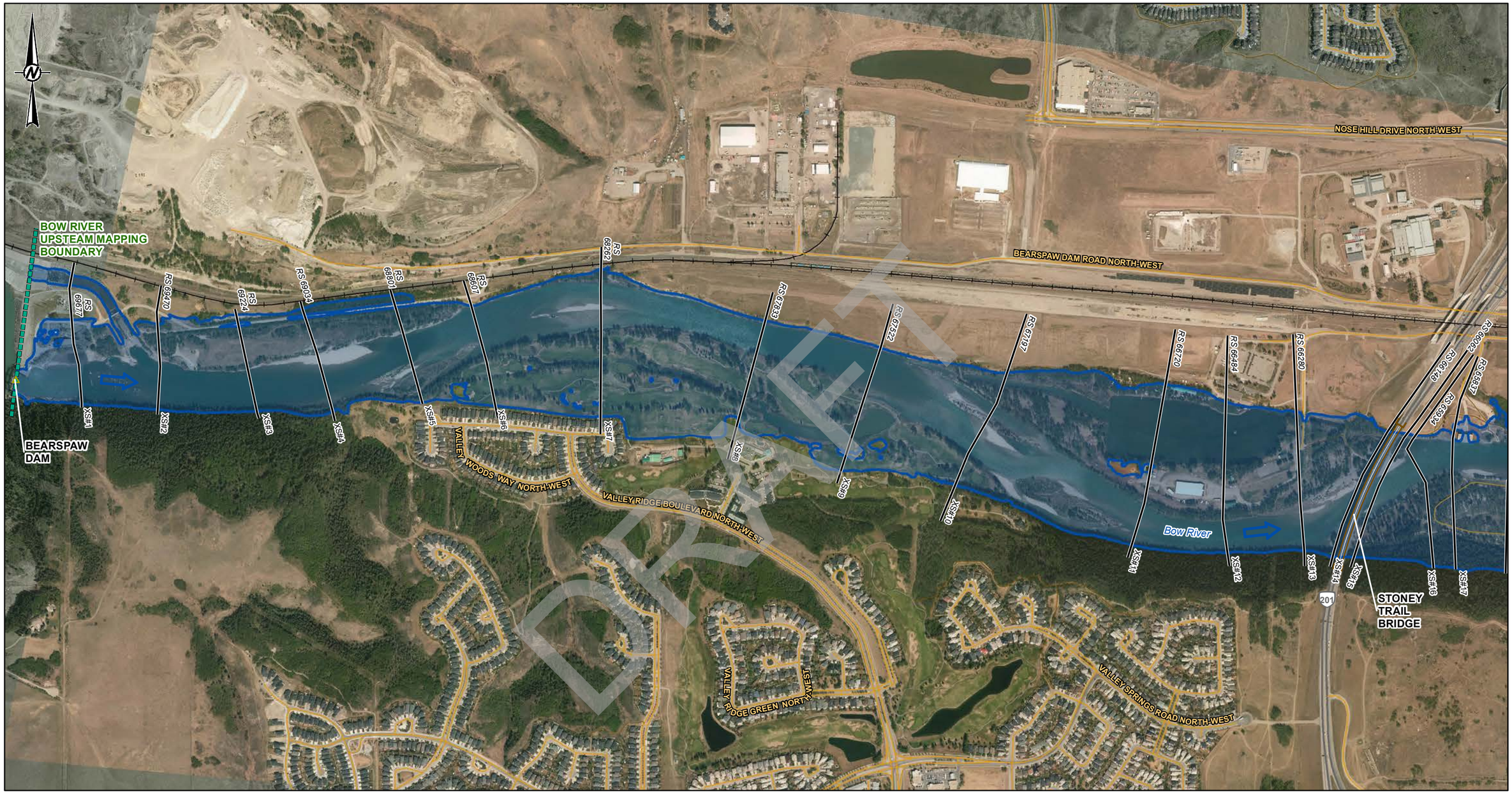
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0200y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:49:05 PM
Classification: Public

350-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public



SHEET 2 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

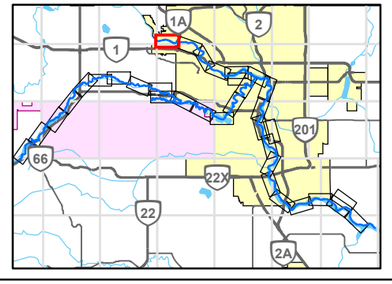
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

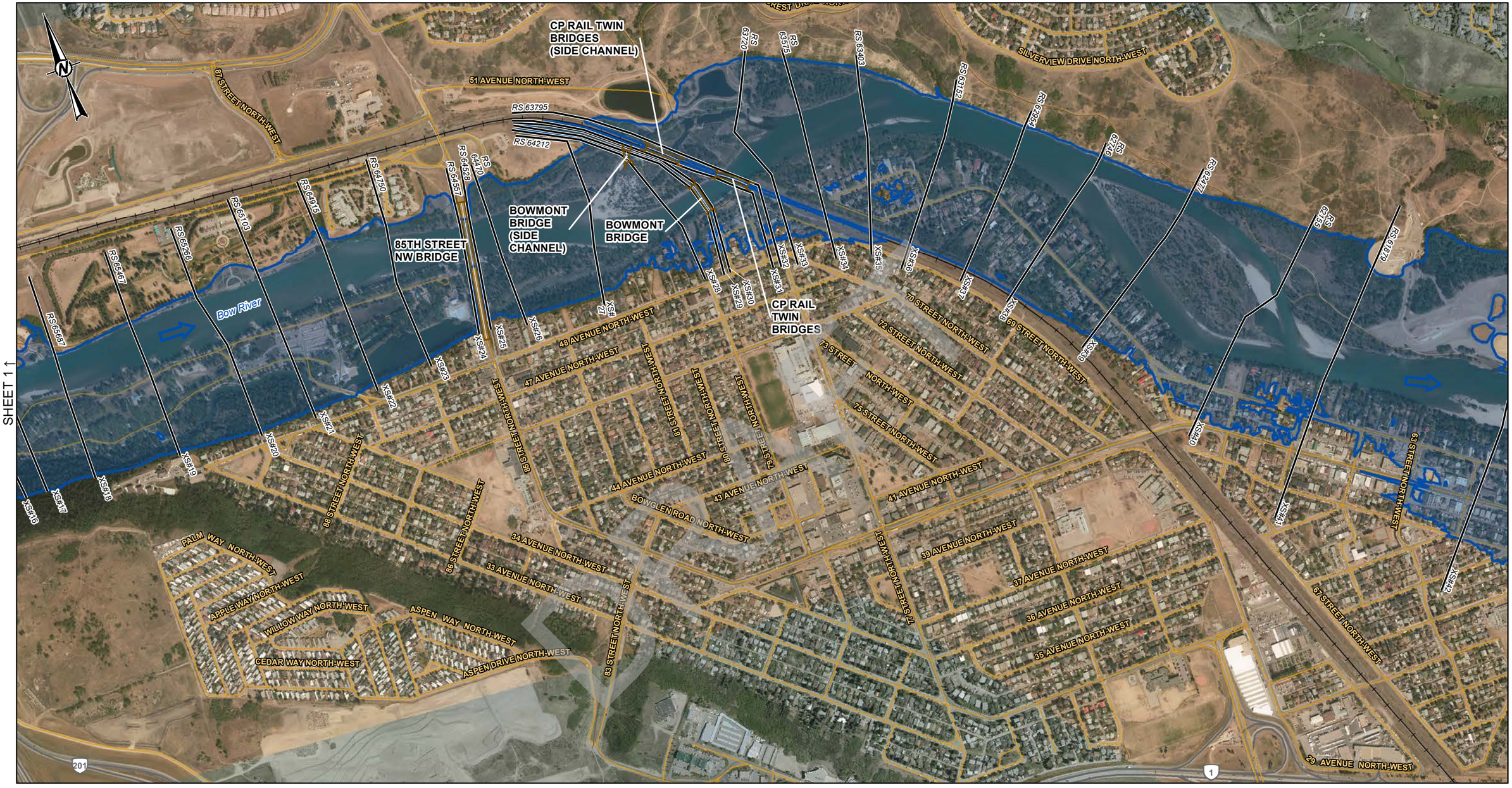
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035Oy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:25:09 PM

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

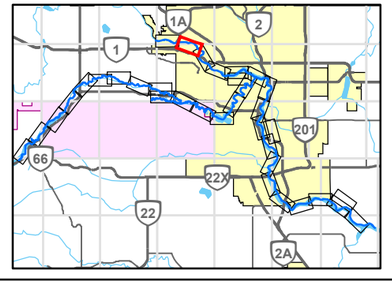
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:26:19 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

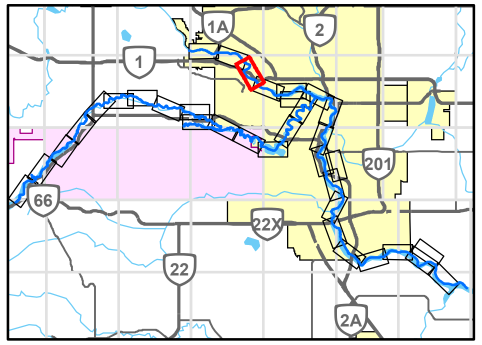
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

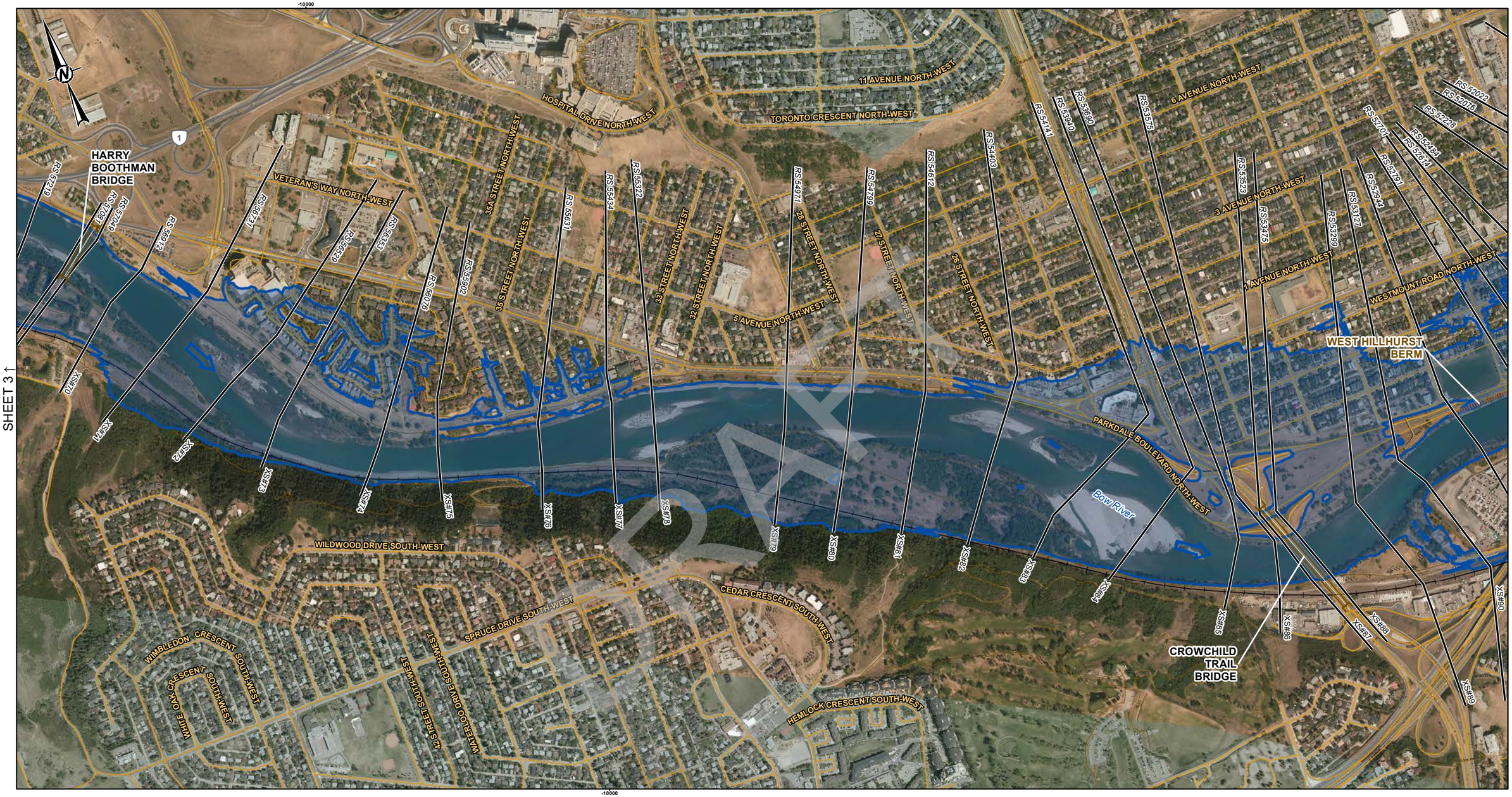
PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

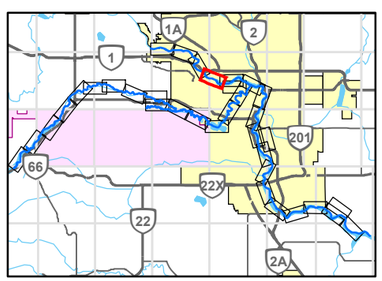
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:29:19 PM

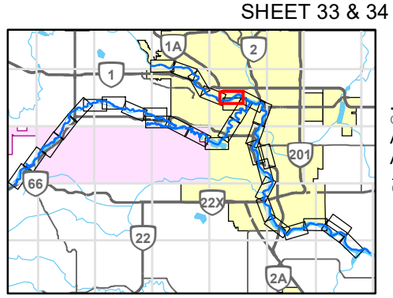
Classification: Public

SHEET 4 ↑

SHEET 6 ↓

10 AVENUE NORTH-WEST
8 AVENUE NORTH-WEST
6 AVENUE NORTH-WEST
3 AVENUE NORTH-WEST
1 AVENUE NORTH-WEST
WESTMOUNT ROAD NORTH-WEST
WESTMOUNT BOULEVARD NORTH-WEST
15 STREET NORTH-WEST
16 STREET NORTH-WEST
13 STREET NORTH-WEST
11 STREET NORTH-WEST
GLADSTONE ROAD NORTH-WEST
7 STREET NORTH-WEST
5A STREET NORTH-WEST
4A STREET NORTH-WEST
1 AVENUE SOUTH-WEST
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
5 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
3 AVENUE SOUTH-EAST
SUNNYSIDE BARRIER
PEACE BRIDGE
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
MEWATA BRIDGE
WEST HILLHURST BERM
CROWCHILD TRAIL BRIDGE
PRINCE'S ISLAND CAUSEWAY
PRINCE'S LAGOON WEIRS
JAIPUR BRIDGE
PRINCE'S ISLAND BRIDGE
PRINCE'S ISLAND BRIDGE ON SIDE CHANNEL
WEST EAU CLAIRE FLOOD BARRIER
CENTRE STREET BRIDGE BARRIER
CENTRE STREET BRIDGE
MEMORIAL DRIVE BERM
Bow River

SHEET 33 & 34 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

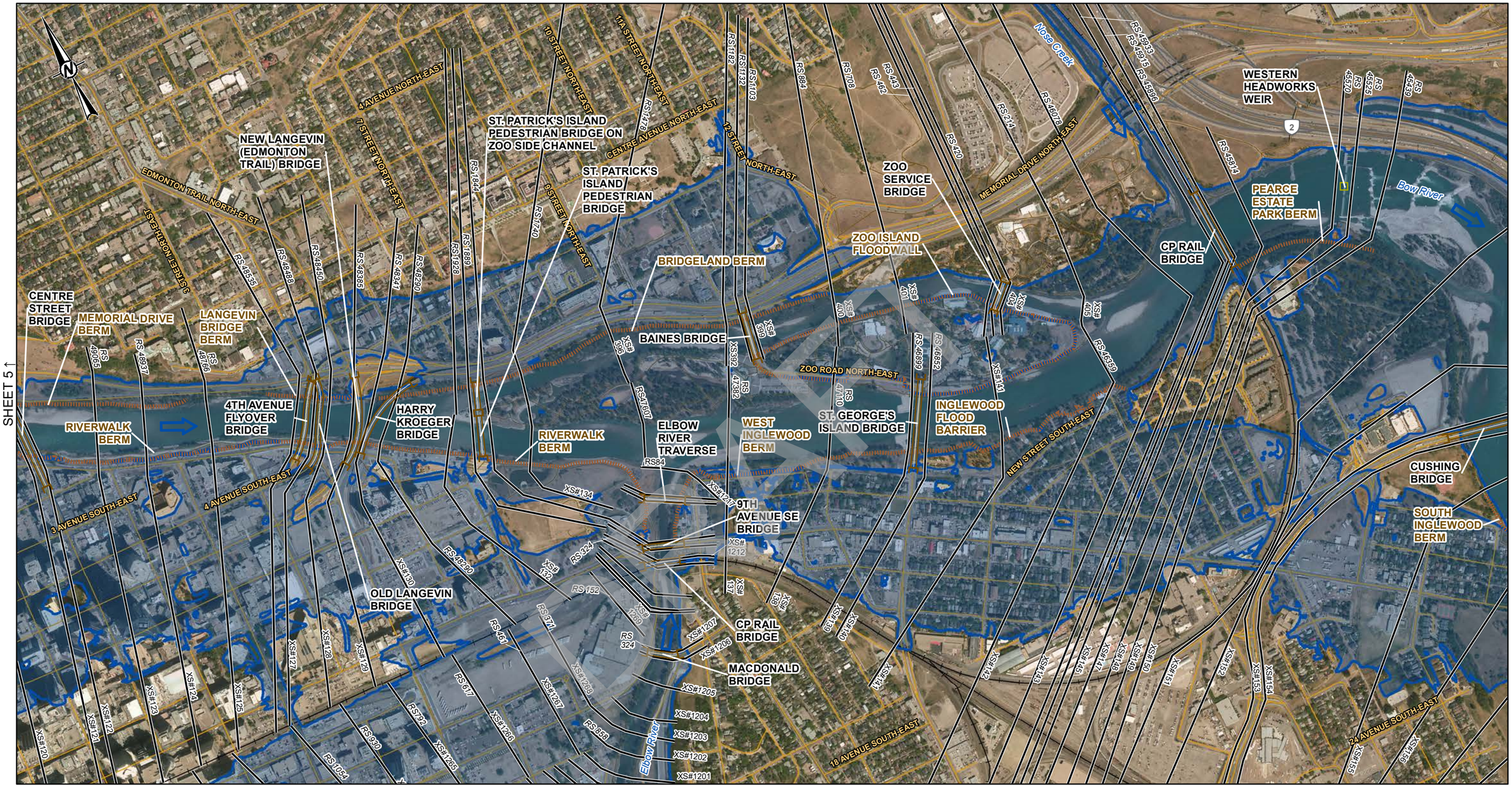
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

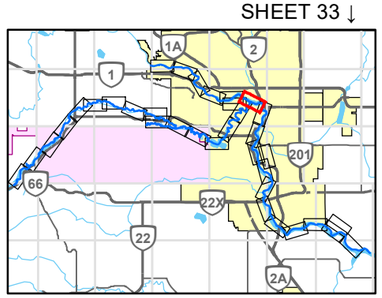
0

C:\GTH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035(b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:30:36 PM

Classification: Public



SHEET 33 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1440 M^3/S
BOW RIVER BELOW ELBOW RIVER = 3710 M^3/S
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

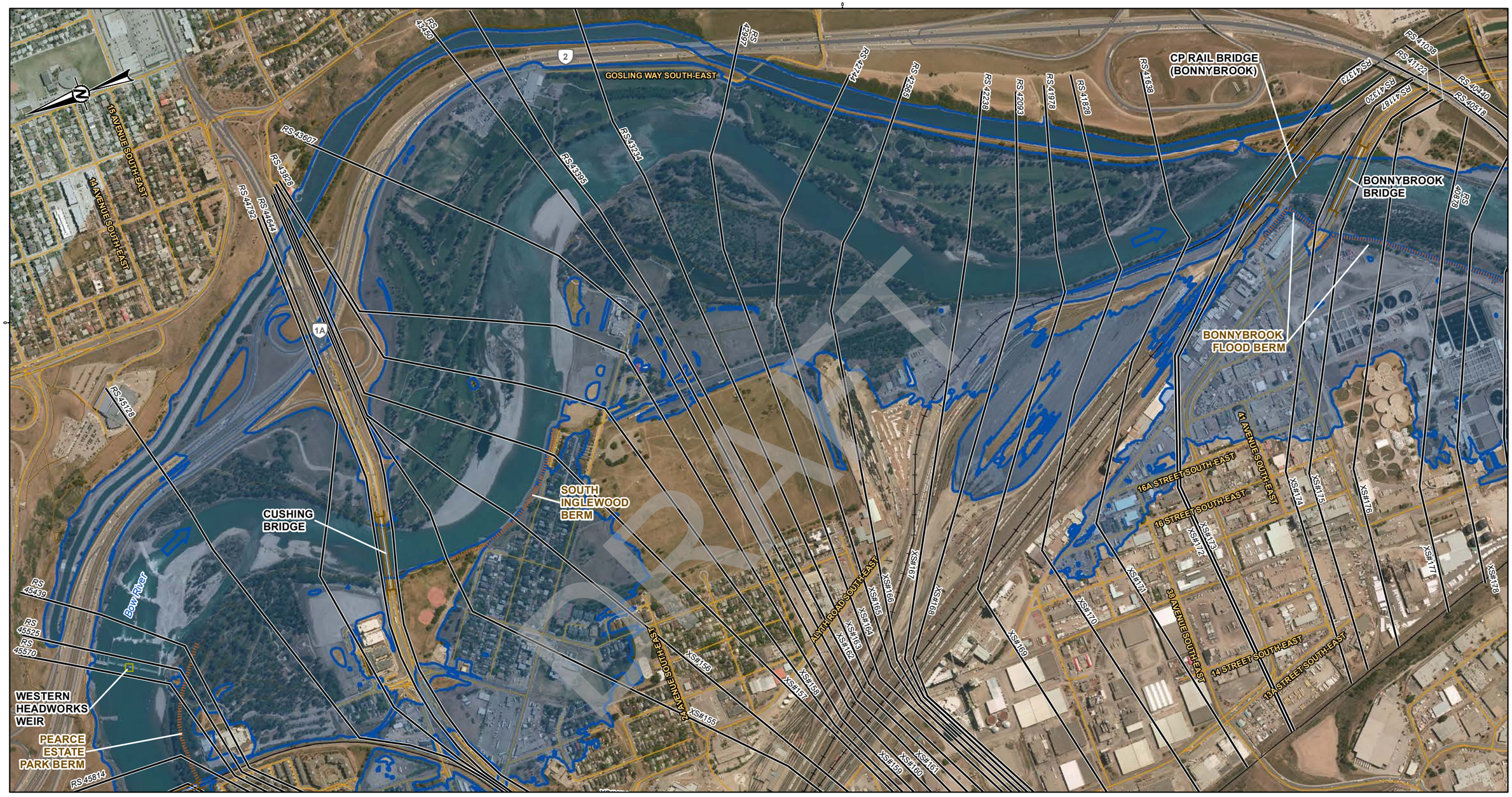
TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0359y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:32:04 PM

Classification: Public



SHEET 5 ↓

SHEET 8 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

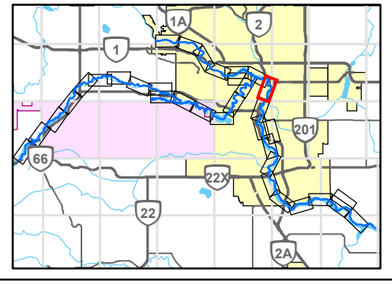
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

DRAFT

C:\PATH:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:33:23 PM

Classification: Public

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40515
RS 40788
RS 40663
RS 40378
RS 40374
RS 40254
RS 40065
RS 39997
RS 39942
RS 39634
RS 39597
RS 39577
RS 39436
RS 39313
RS 39262
RS 39120
RS 38865
RS 38725
RS 38662
RS 38513
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 3166
RS 37530
RS 37460
RS 37417
RS 37301
RS 37029
RS 36882
RS 36714
RS 36303

CALF ROBE BRIDGE
CN RAIL BRIDGE
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
18 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
10 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

5650000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

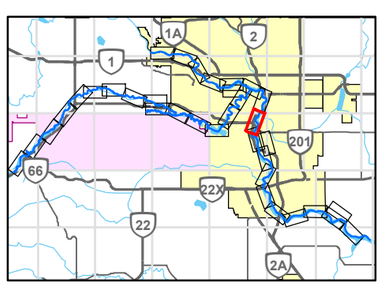
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

25mm
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:34:36 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

18 STREET SOUTH-EAST

RIVERBEND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTHLAND DRIVE SOUTH-EAST

Bow River

RS 37639
RS 37630
RS 37480
RS 37361
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35723
RS 35602
RS 35419
RS 35275
RS 35196
RS 34869
RS 34780
RS 34758
RS 34557

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

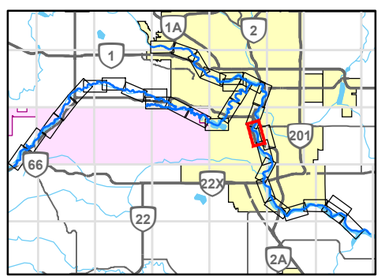
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

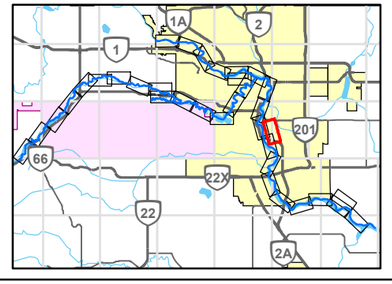
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0359y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:35:48 PM

Classification: Public

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT

GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:36:59 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

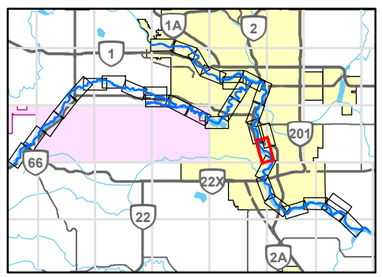
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

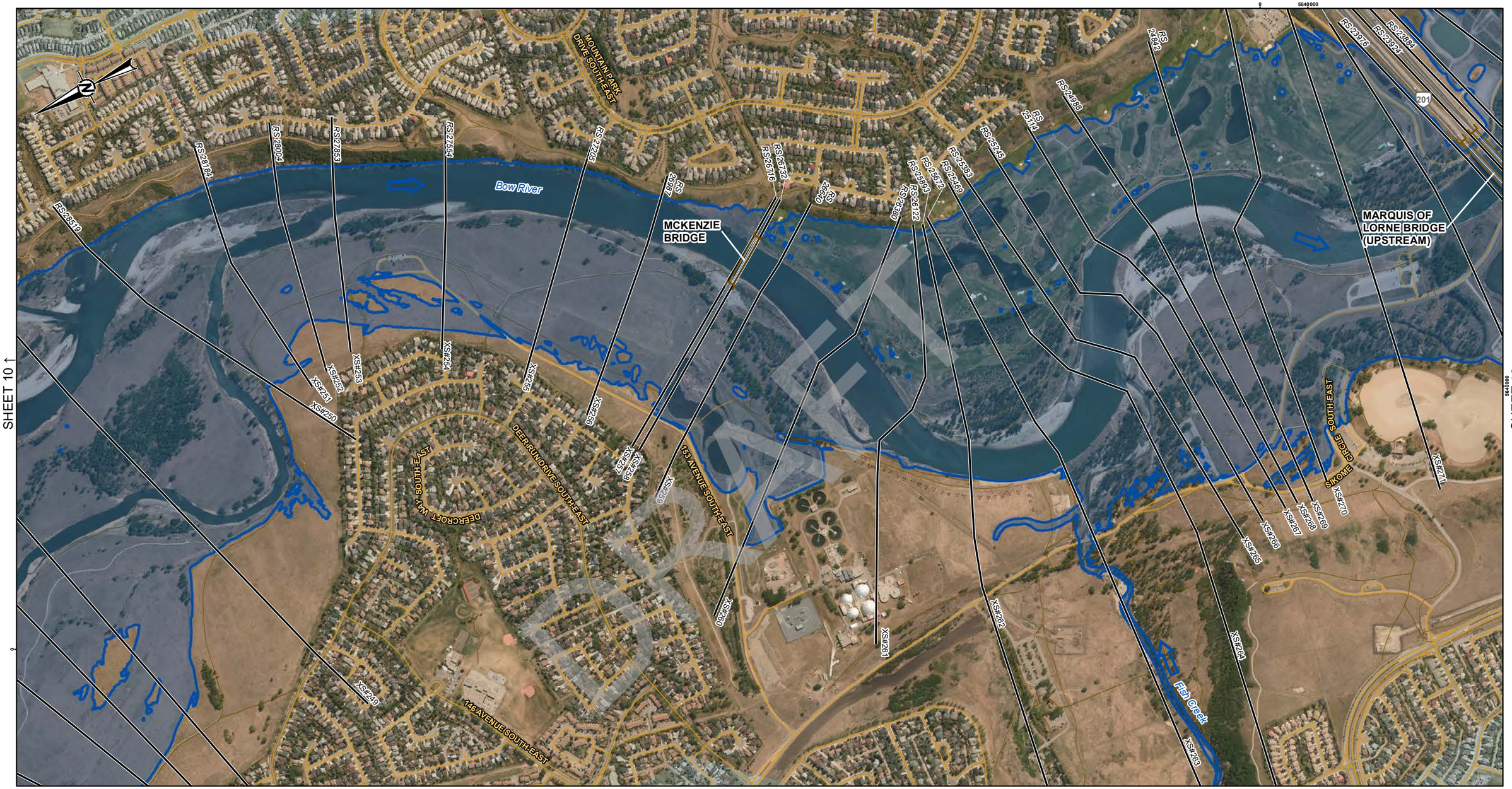
Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:38:09 PM

SHEET 10 ↑

SHEET 12 ↓

DRAFT



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

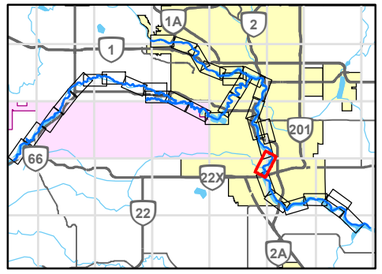
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 3760 M^3/S
BOW RIVER BELOW FISH CREEK = 4120 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

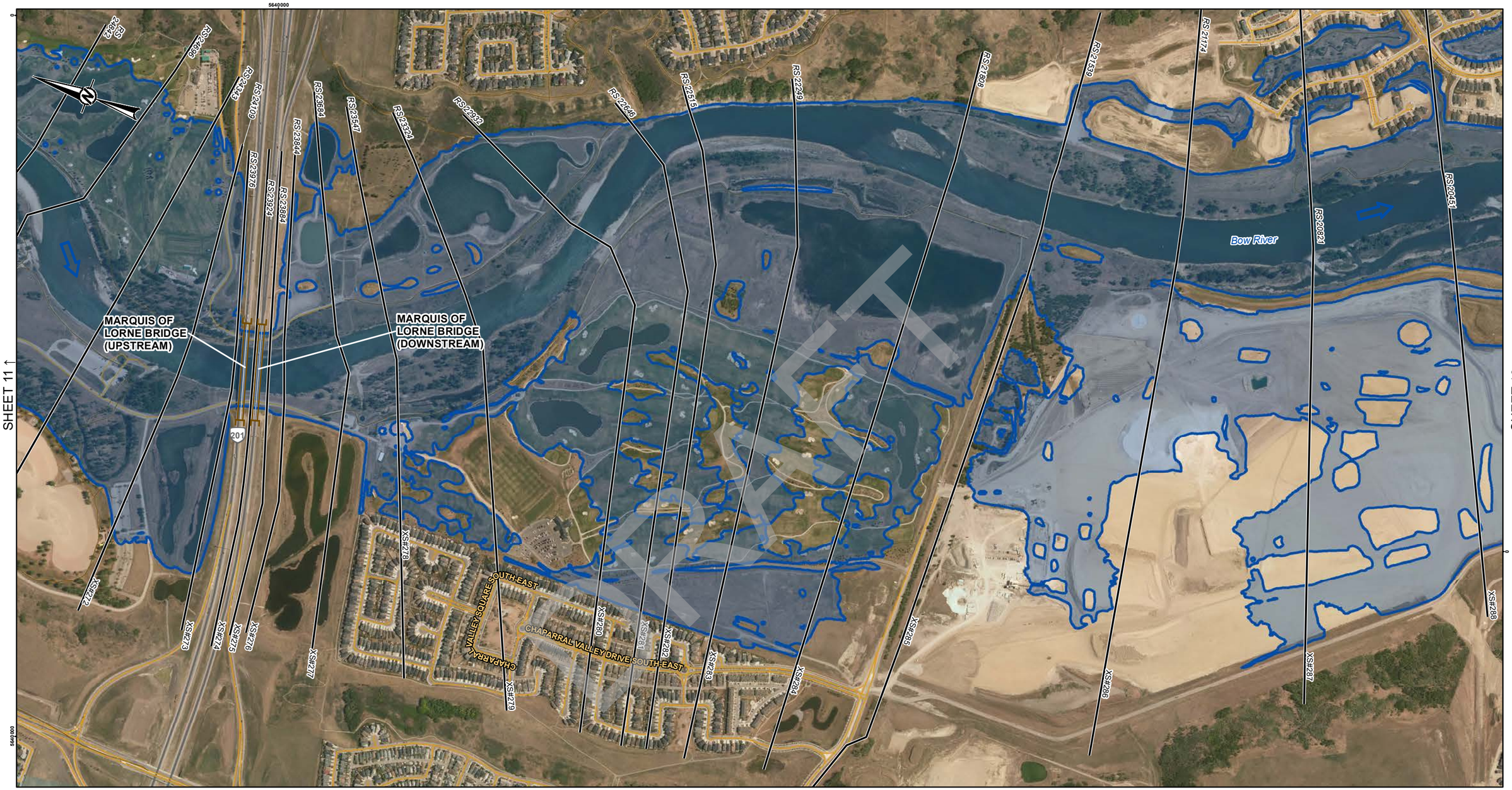
TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:39:17 PM

Classification: Public



SHEET 11 ↑

SHEET 13 ↓

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

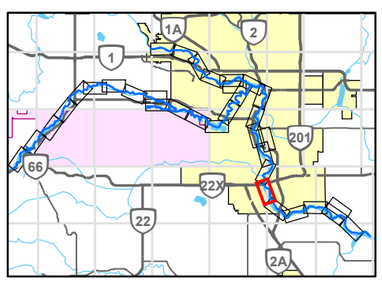
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 4120 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:49:32 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

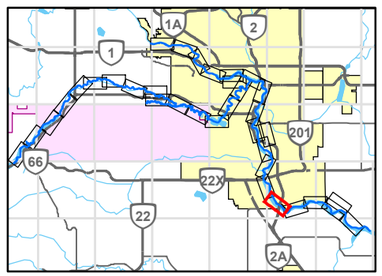
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 4120 M^3/S
BOW RIVER BELOW PINE CREEK = 4180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

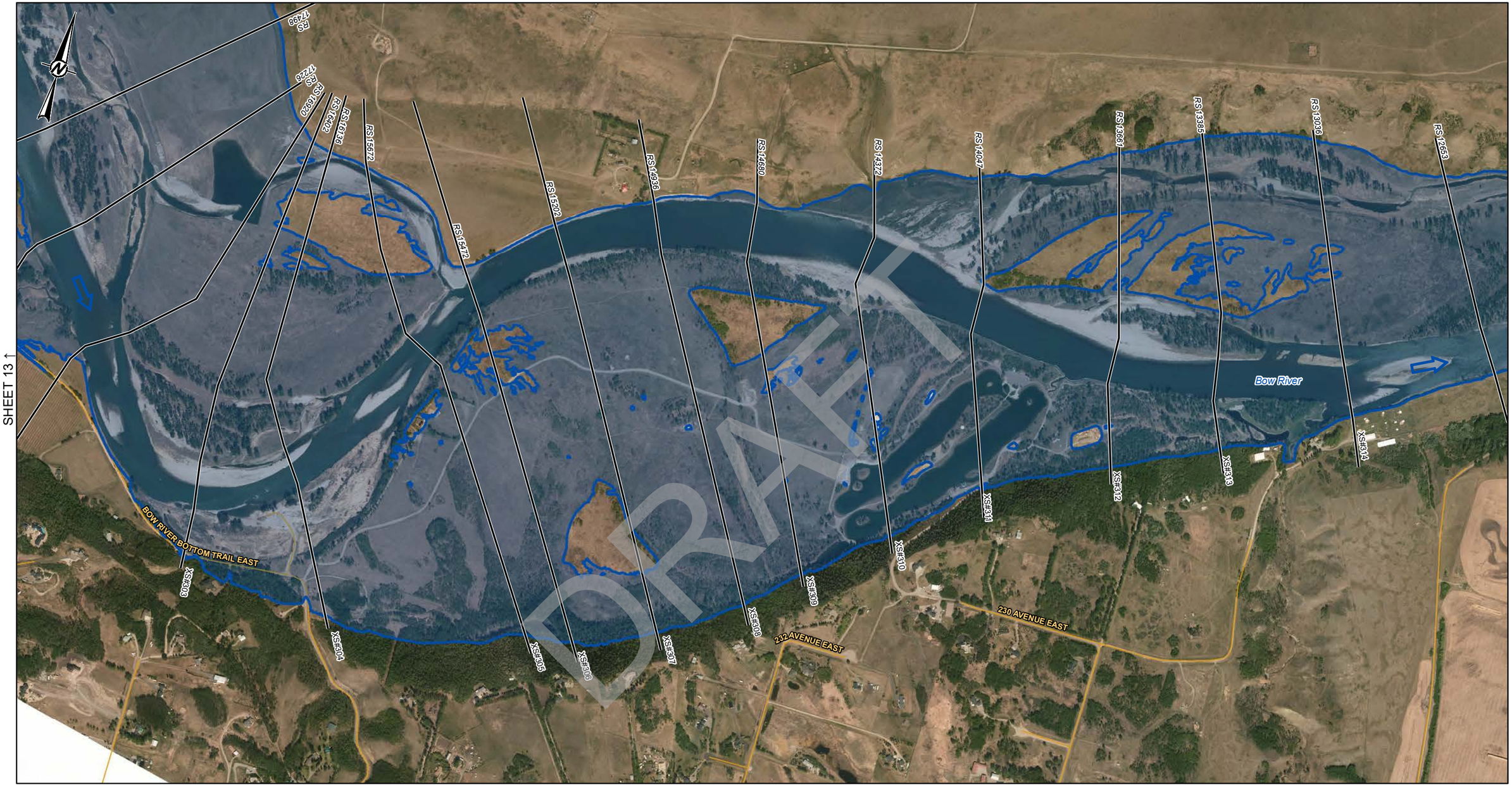
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:4 1:56 PM

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0359y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:43:06 PM



SHEET 13 ↑

SHEET 15 ↓

DRAFT

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

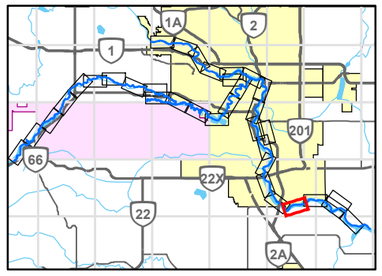
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 4180 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

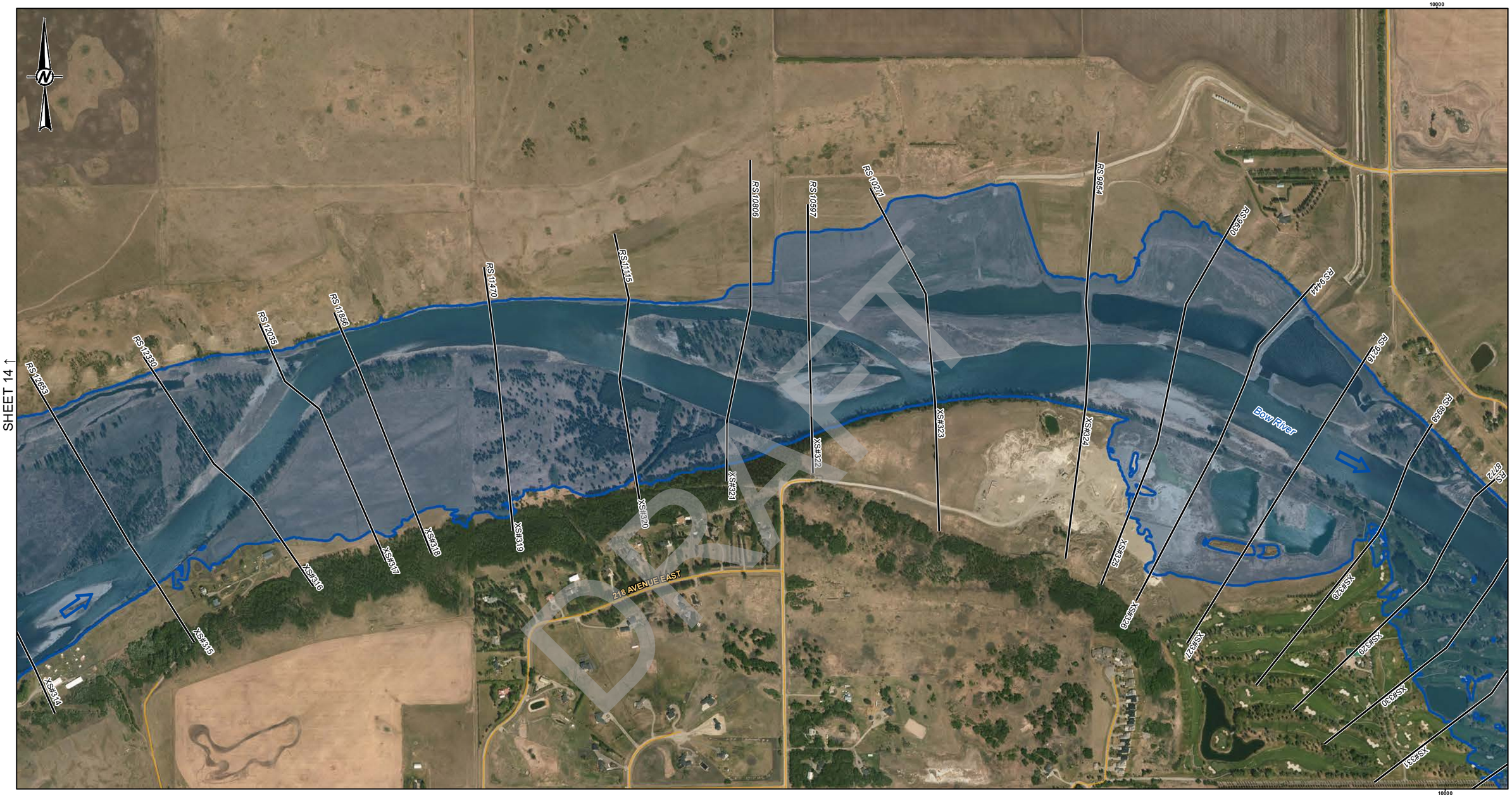
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

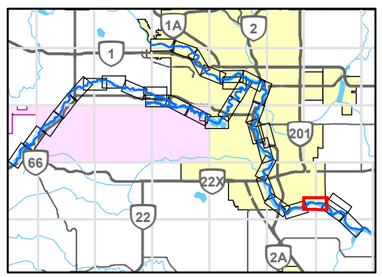
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 4180 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 4240 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:44:08 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

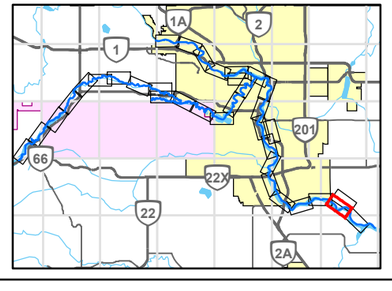
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4240 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

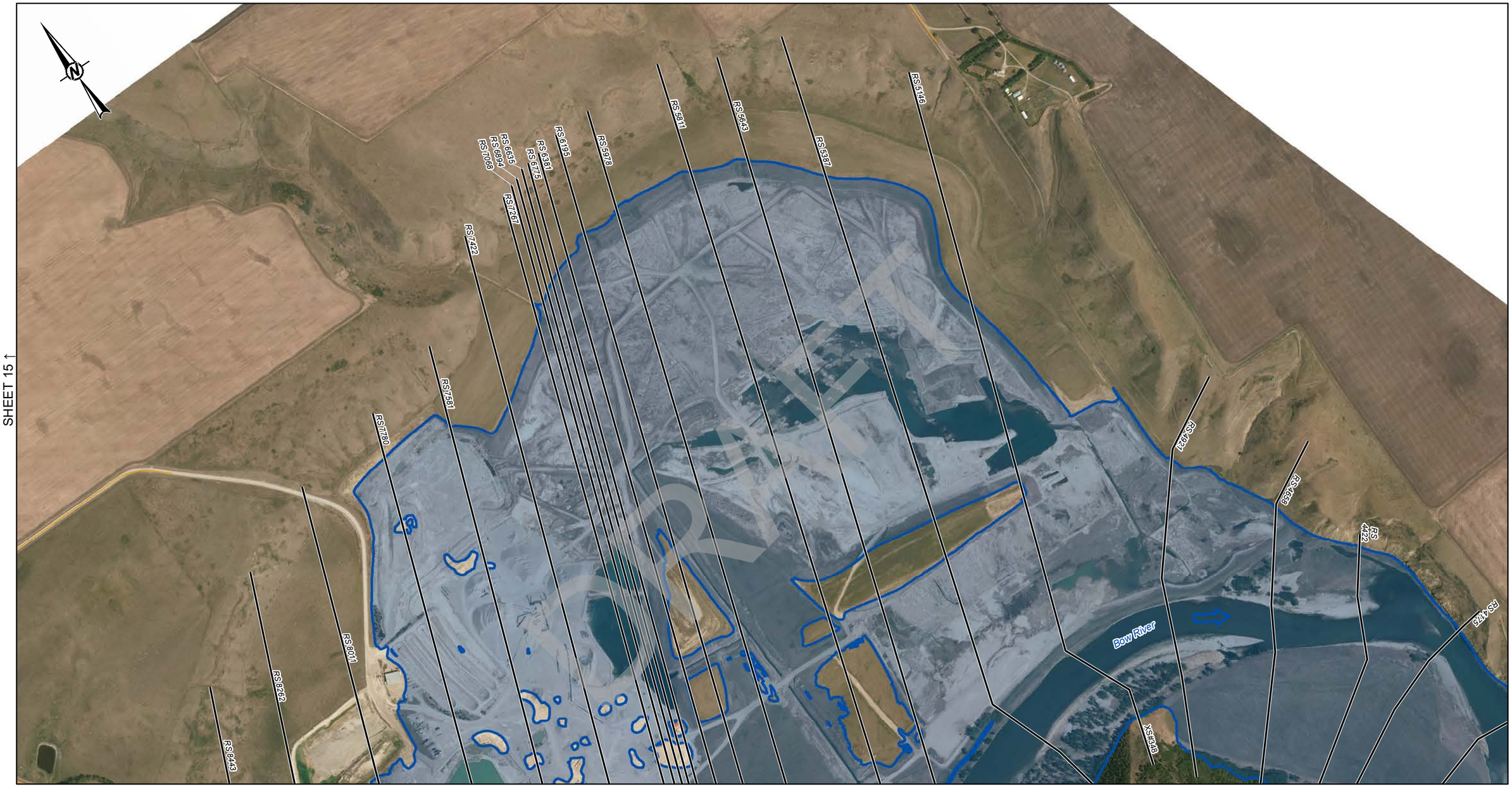
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:45:18 PM

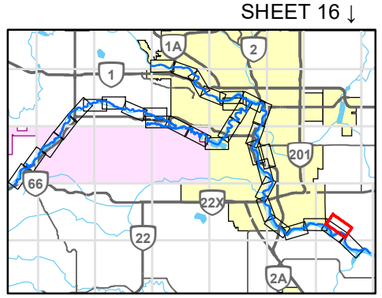
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4240 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:46:24 PM

Classification: Public

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

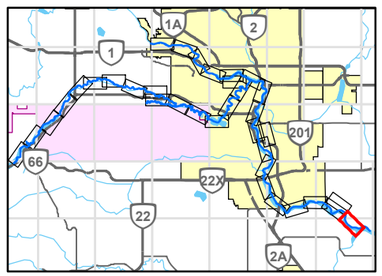
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4240 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0359y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:47:29 PM

Classification: Public

ELBOW RIVER
UPSTEAM MAPPING
BOUNDARY

WILD ROSE CAFE

TOWNSHIP ROAD 232

RANGE ROAD 51A

Elbow River

758

66

DRAFT

SHEET 20 →

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

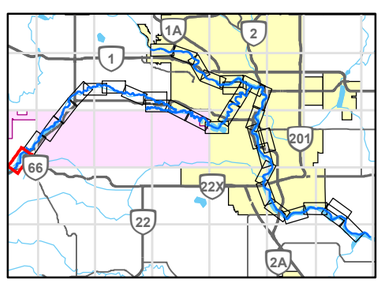
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

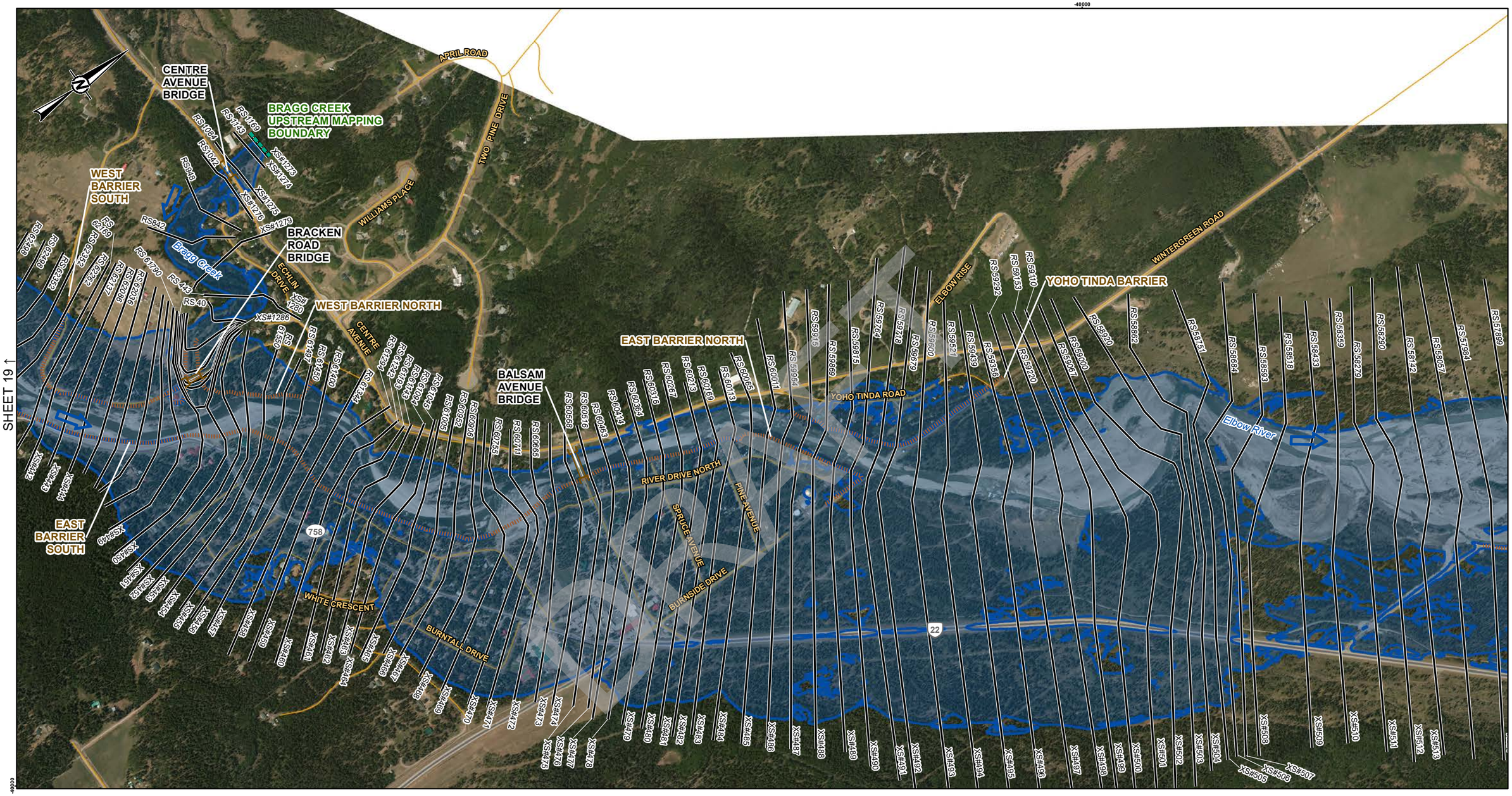
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:48:46 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

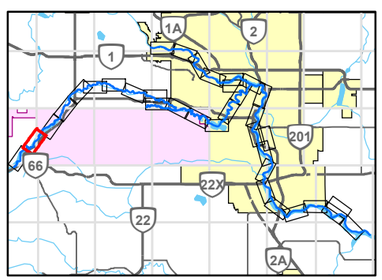
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S
BRAGG CREEK = 74.3 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

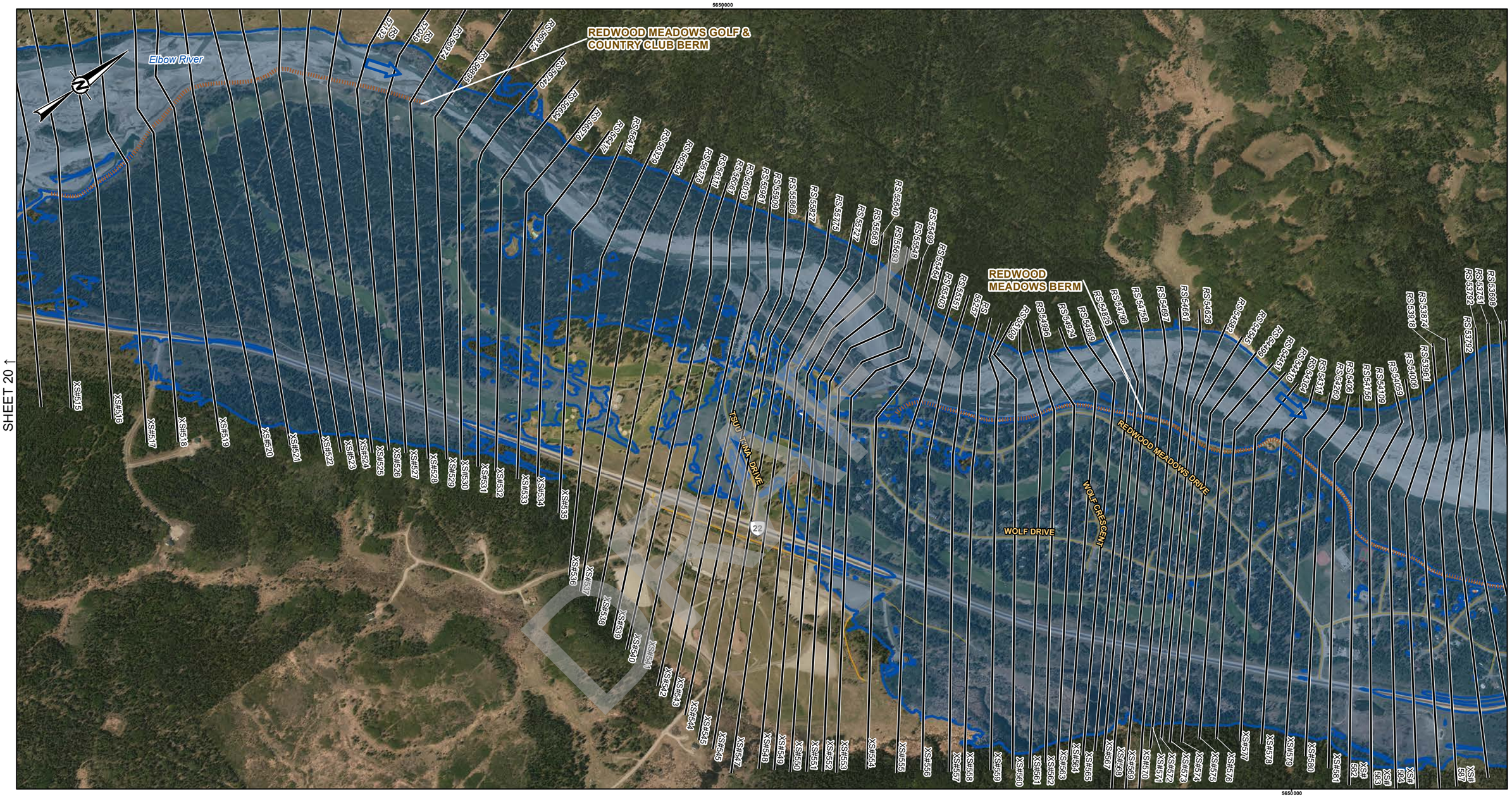
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:49:47 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

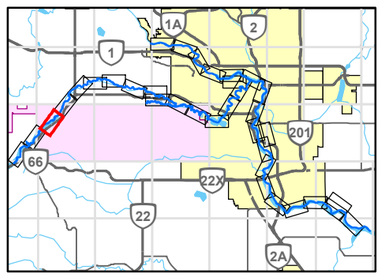
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:59:47 PM

Classification: Public

SHEET 21 ↑

SHEET 23 ↓

REDWOOD MEADOWS BERM

SLEIGH DRIVE

MANYHORSES DRIVE

RANGE ROAD 42

Elbow River

RS 55557 RS 55397 RS 55414 RS 55782 RS 55761 RS 55839 RS 55637 RS 53420 RS 53057 RS 53003 RS 52971 RS 52909 RS 52838 RS 52724 RS 52692 RS 52640 RS 52459 RS 52370 RS 52316 RS 52246 RS 52396 RS 52203 RS 52124 RS 52055 RS 51947 RS 51877 RS 51759 RS 51679 RS 51579 RS 51458 RS 51341 RS 51222 RS 51073 RS 51067 RS 50932 RS 50834 RS 50739 RS 50623 RS 50539 RS 50202 RS 50099 RS 50000 RS 49908 RS 49816 RS 49713 RS 49710

XS#637 XS#639 XS#590 XS#591 XS#592 XS#593 XS#594 XS#595 XS#596 XS#597 XS#598 XS#599 XS#600 XS#601 XS#602 XS#603 XS#604 XS#605 XS#606 XS#607 XS#608 XS#609 XS#610 XS#611 XS#612 XS#614 XS#615 XS#616 XS#617 XS#618 XS#619 XS#620 XS#621 XS#622 XS#623 XS#624 XS#626 XS#627 XS#628 XS#629 XS#630 XS#631 XS#632 XS#633 XS#634 XS#635 XS#636 XS#637 XS#638 XS#639 XS#640 XS#641 XS#642 XS#643 XS#644 XS#645 XS#646 XS#647 XS#648 XS#649 XS#650 XS#651 XS#652 XS#653

22

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

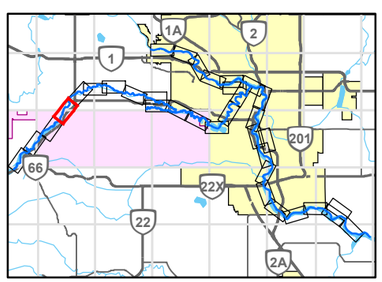
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

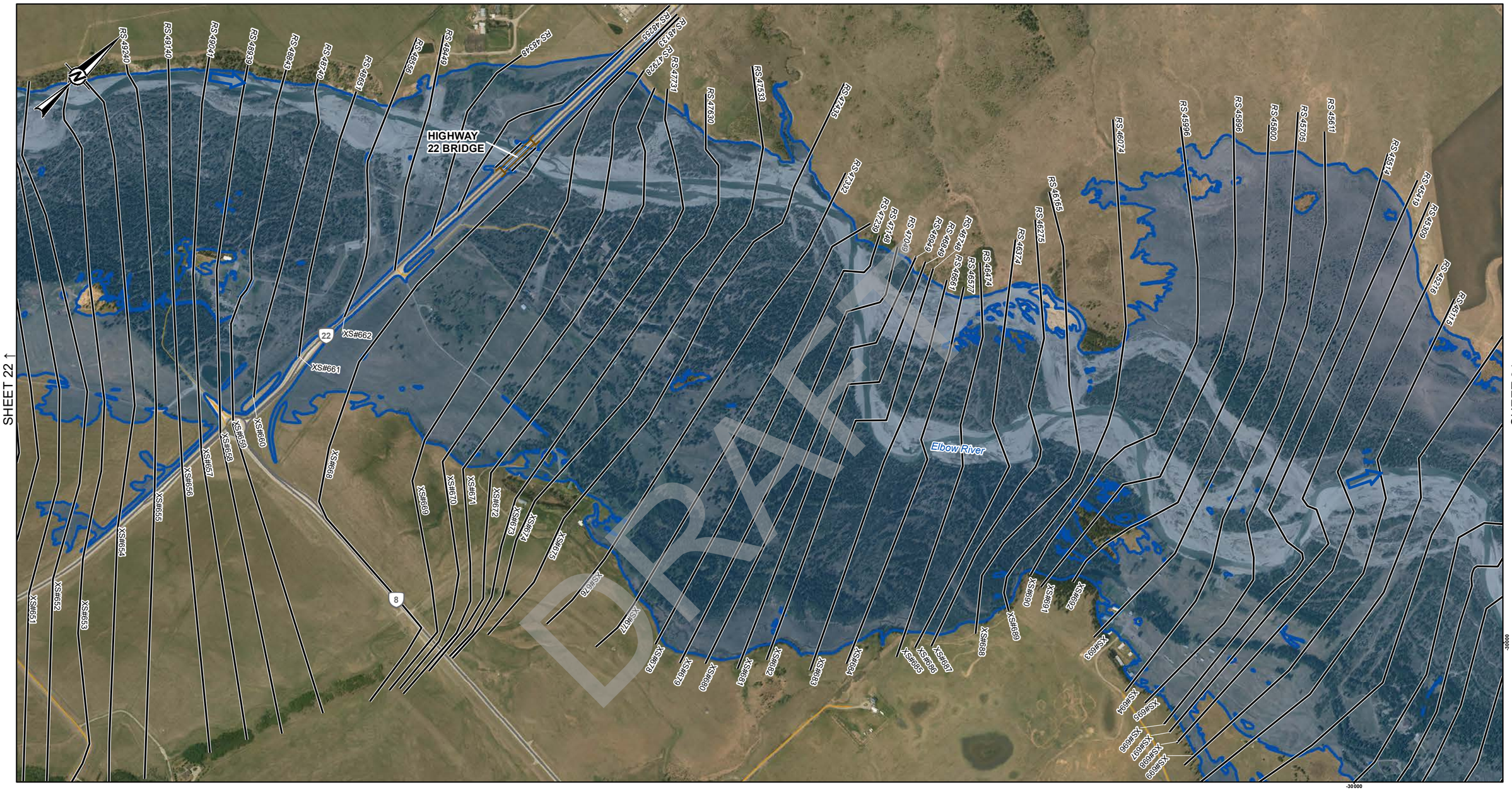
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:51:47 PM

Classification: Public

SHEET 22 ↑

SHEET 24 ↓



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

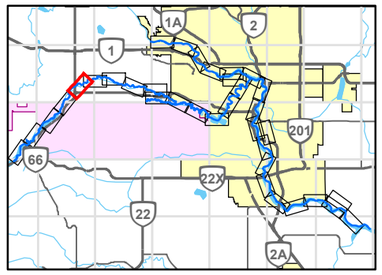
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

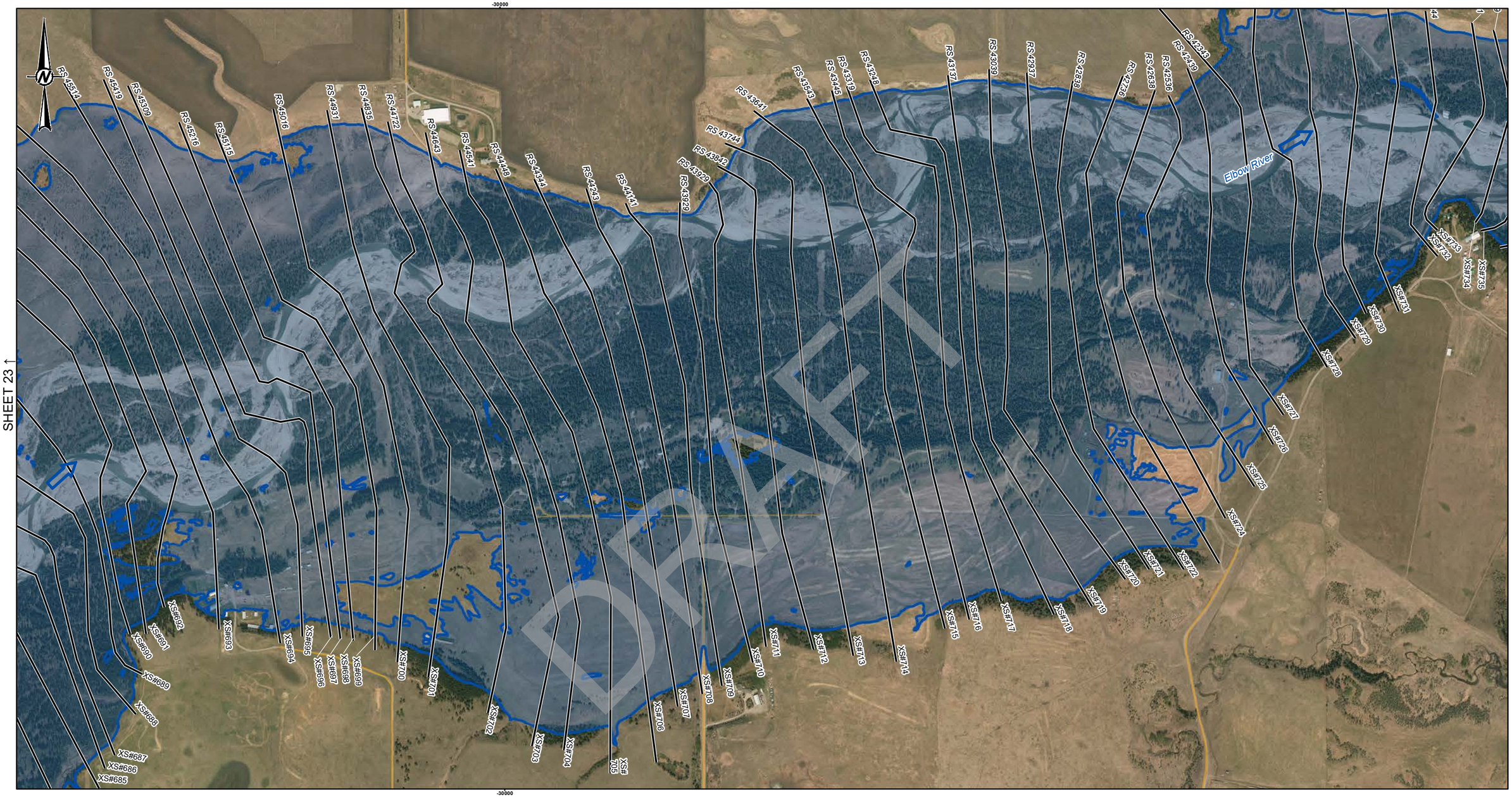
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:52:47 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

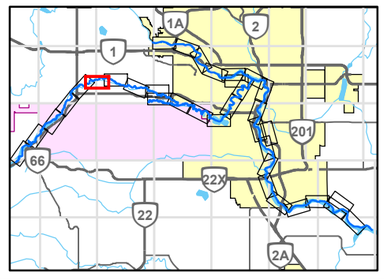
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

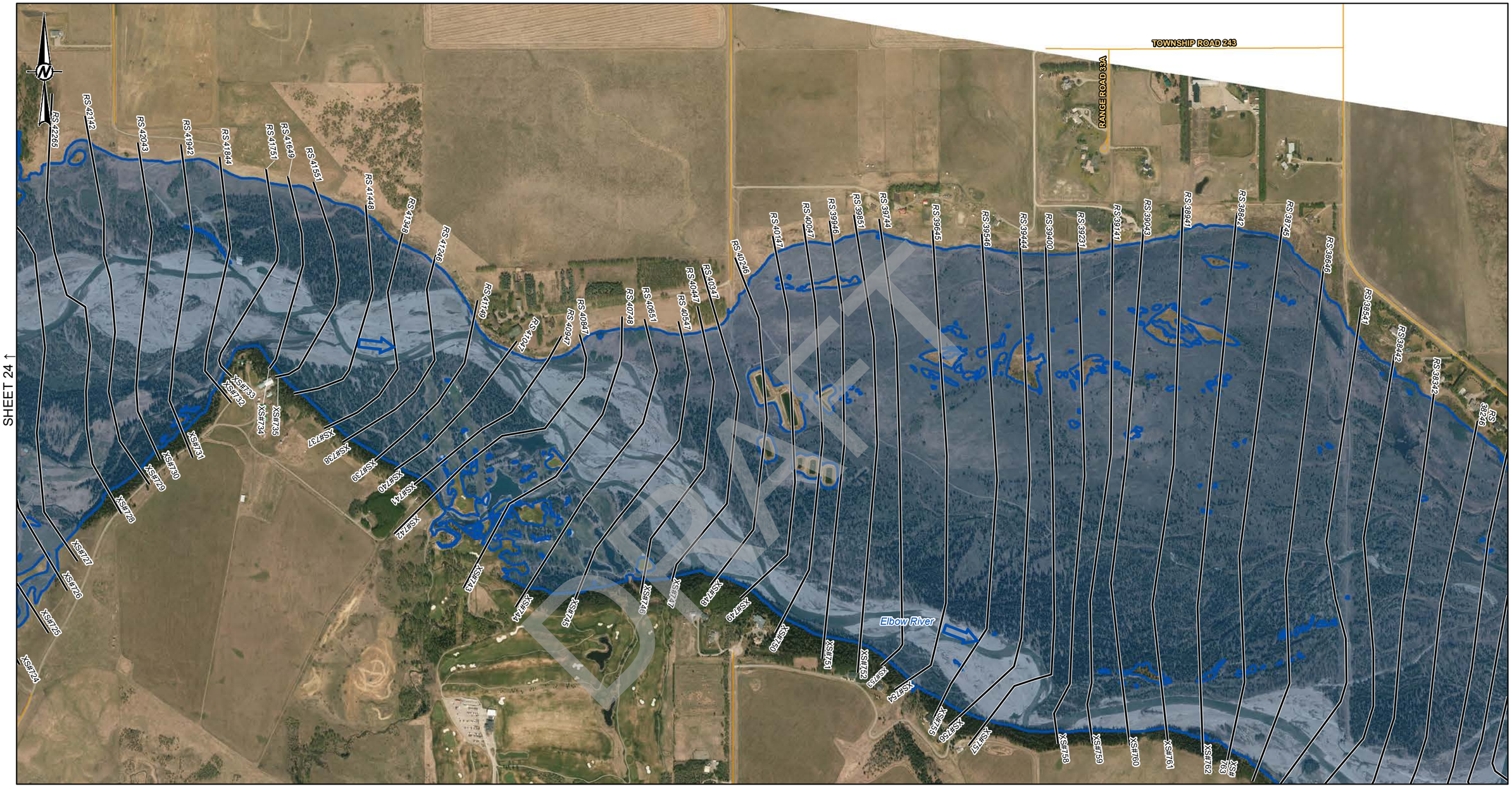
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

DRAFT

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_EbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035Oy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:53:31 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

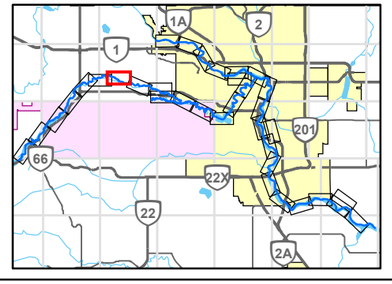
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

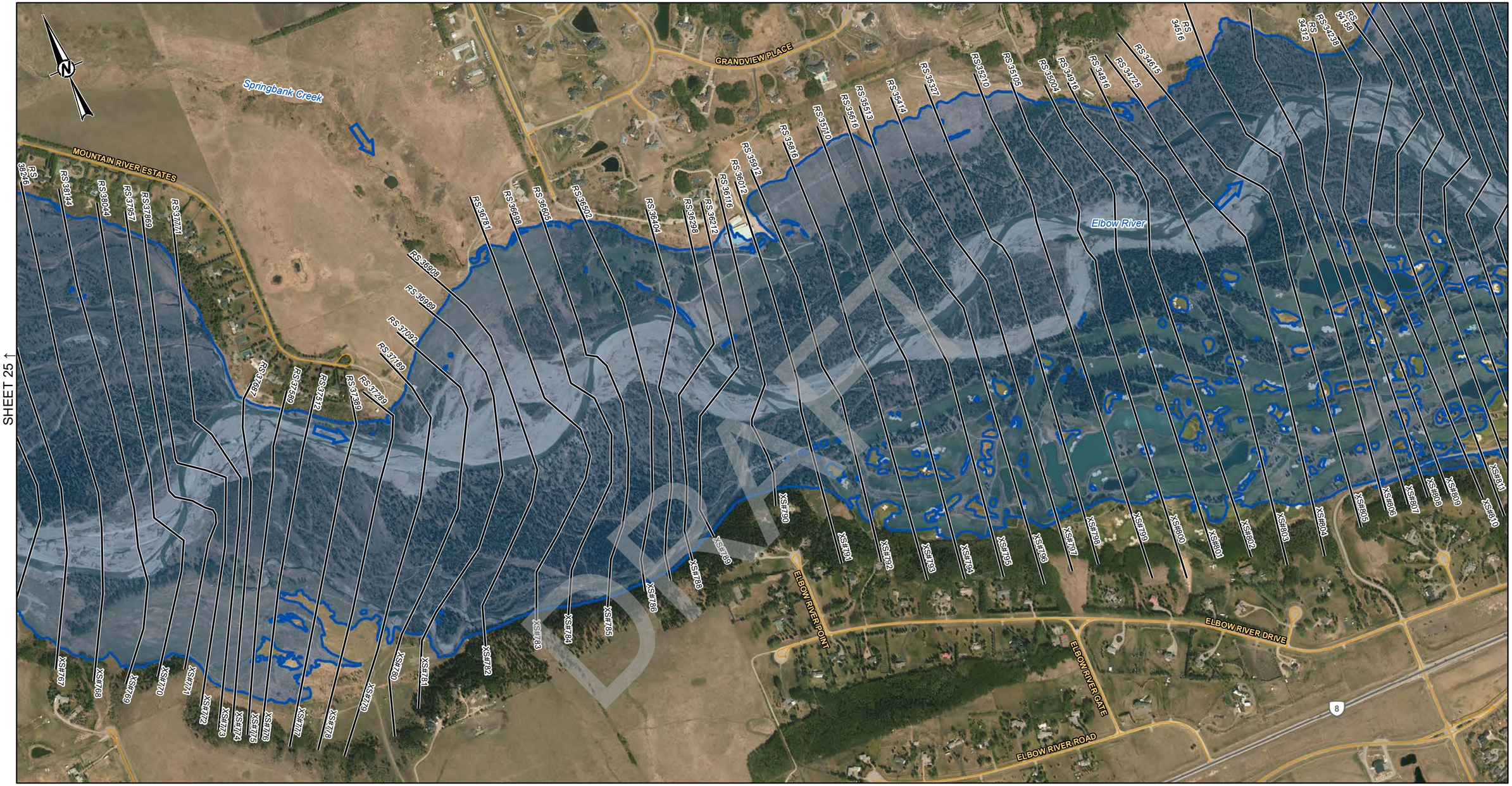
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:54:11 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

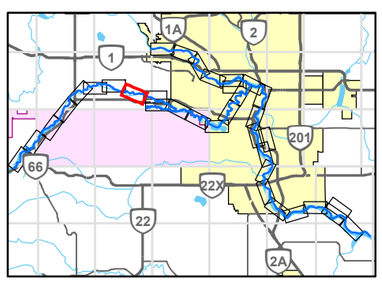
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1440 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:55:07 PM

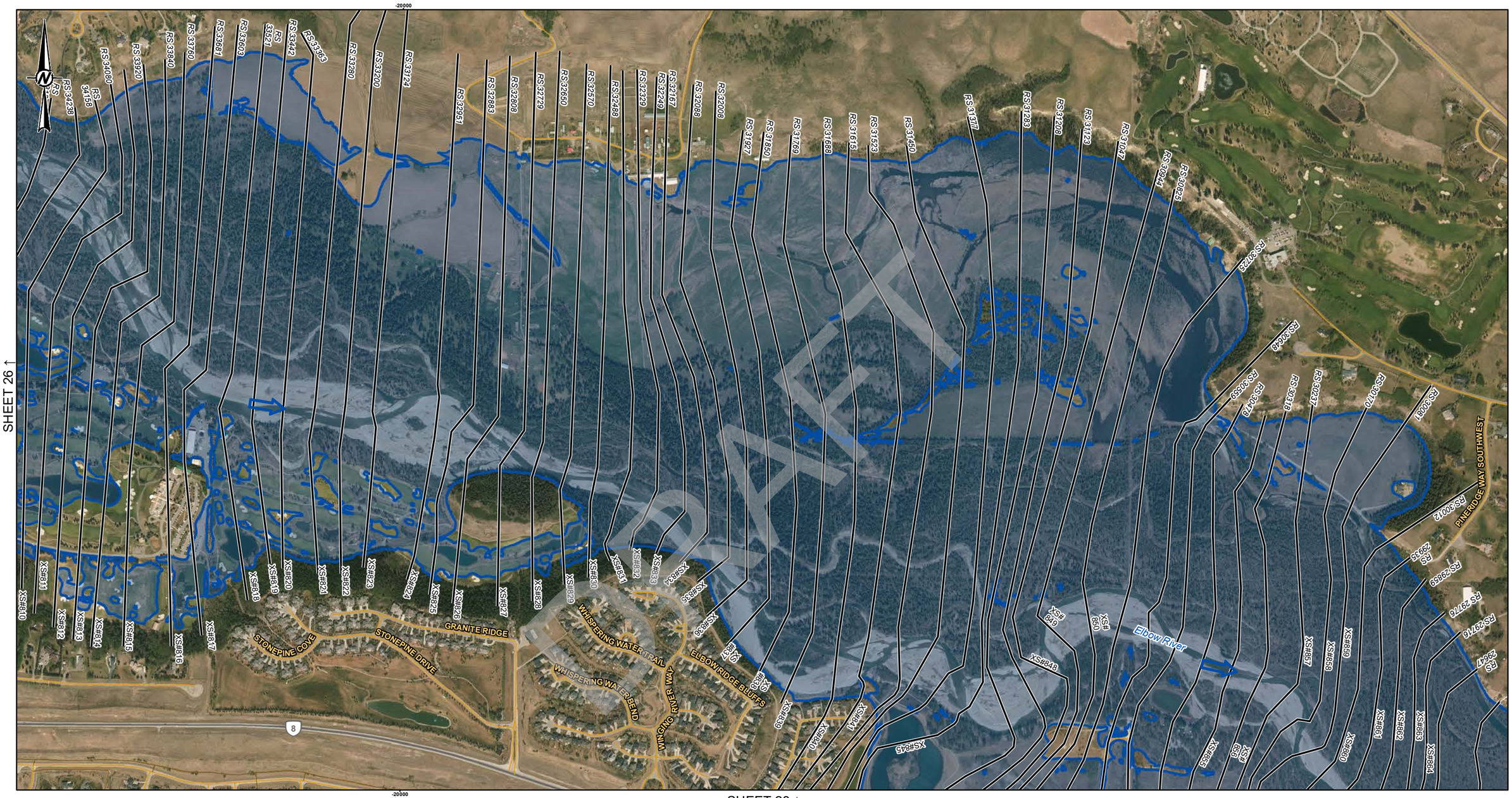
DRAFT

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

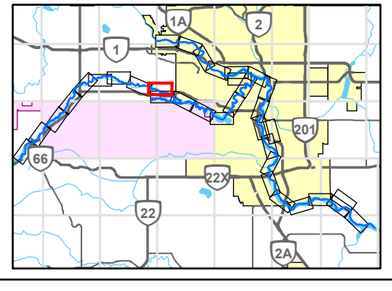
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S
LOTT CREEK = 43.6 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

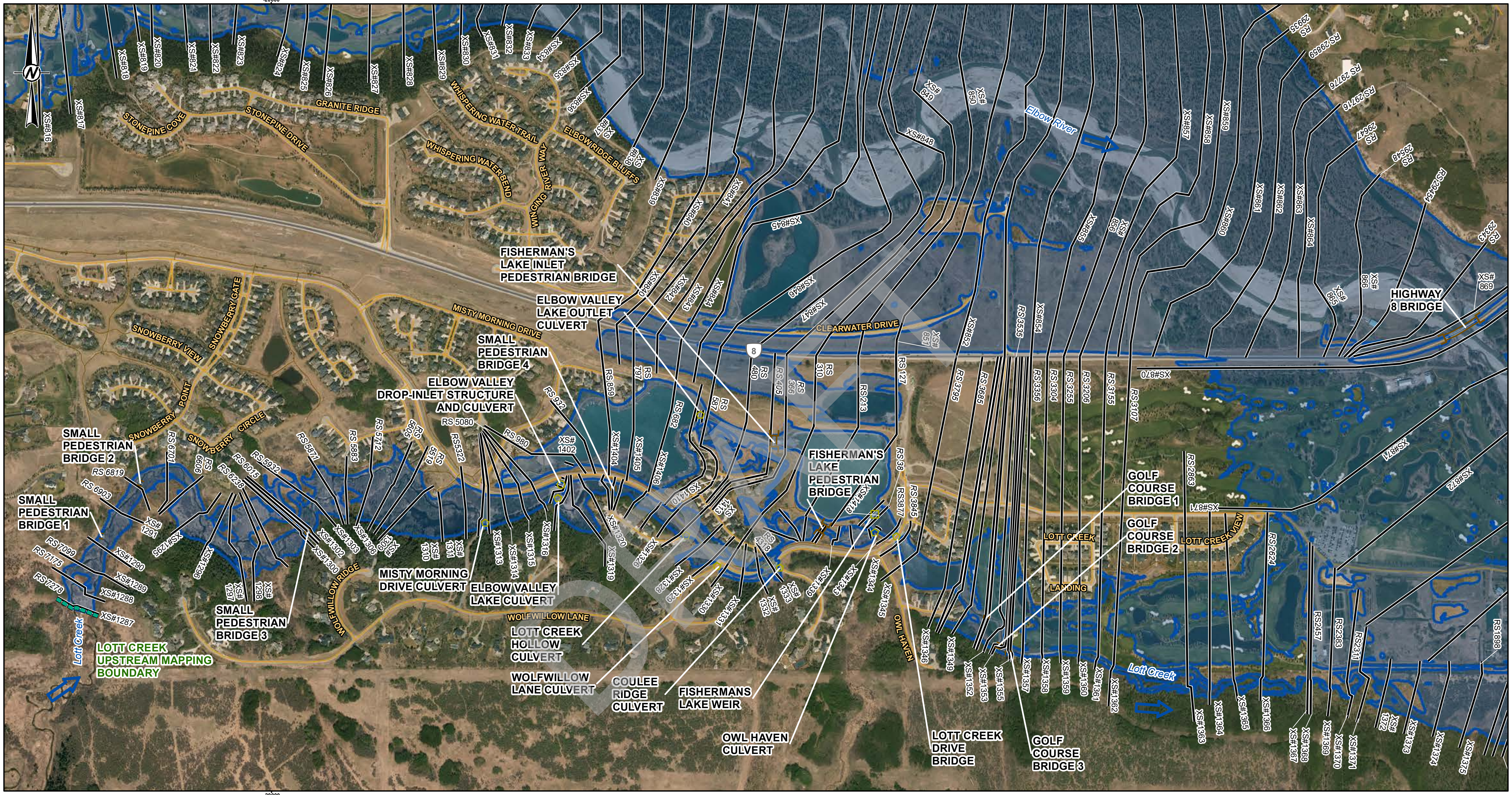
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:56:33 PM

Classification: Public

SHEET 27 ↑



LEGEND

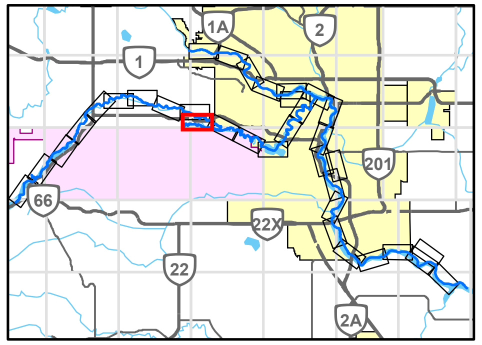
CROSS SECTION
XS#100 CROSS SECTION NUMBER
RS 304 RIVER STATION (M)
STUDY BOUNDARY
FLOW DIRECTION
LOCAL ROAD
PATHWAY
PRIMARY HIGHWAY
SECONDARY HIGHWAY
RAILWAY

FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES
CULVERT
DAM
OTHER
WEIR
BRIDGE

350-YEAR FLOOD INUNDATION EXTENT
350-YEAR FLOOD EXTENT
350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S
LOTT CREEK = 43.6 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:58:01 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

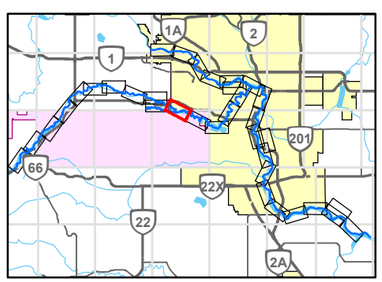
Elbow River

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

RS 65



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S
LOTT CREEK = 43.6 M^3/S

0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

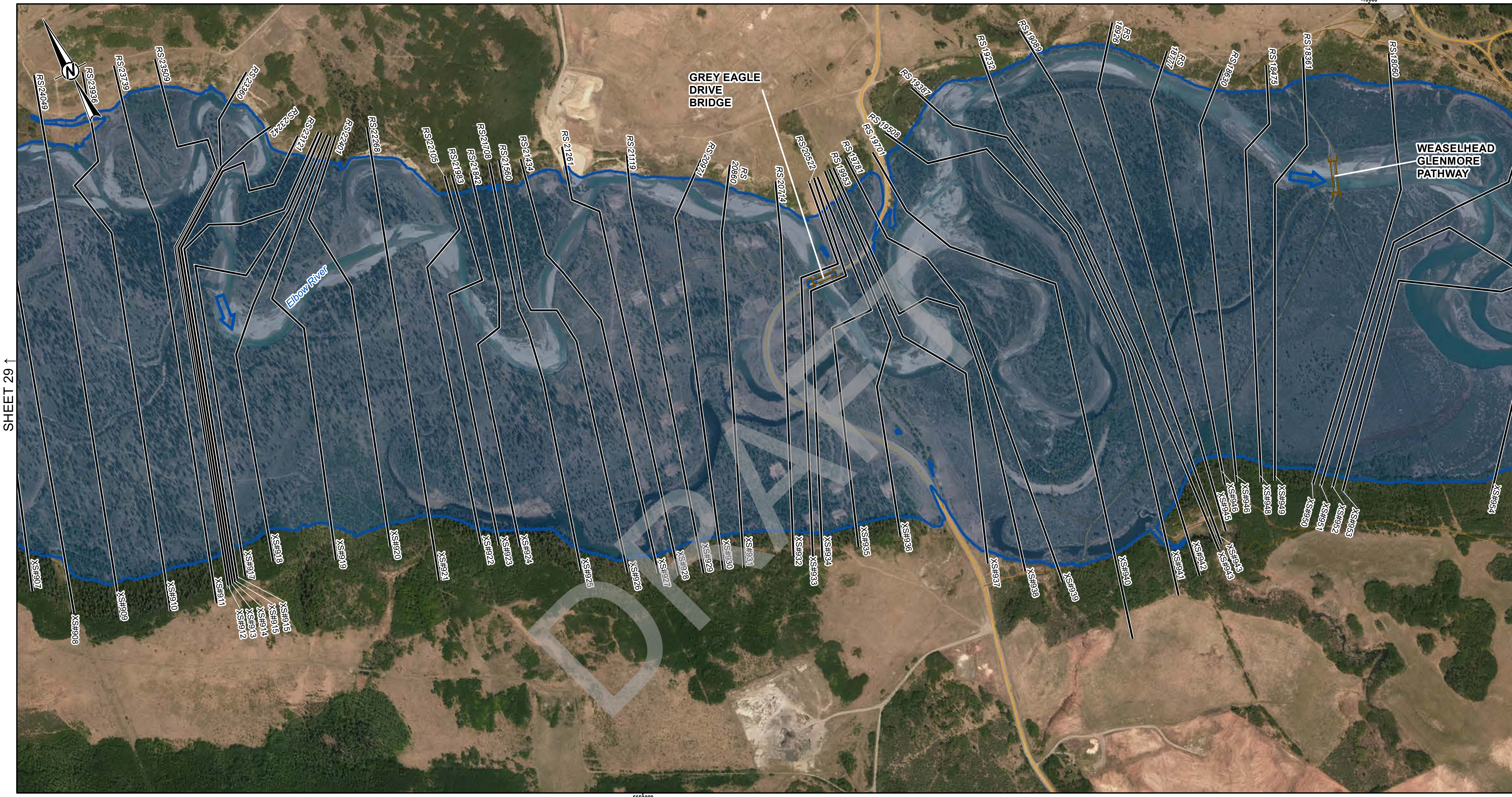
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:59:48 PM

Classification: Public



LEGEND

	CROSS SECTION
XS#100	CROSS SECTION NUMBER
RS 304	RIVER STATION (M)
	STUDY BOUNDARY
	FLOW DIRECTION
	LOCAL ROAD
	PATHWAY
	PRIMARY HIGHWAY
	SECONDARY HIGHWAY
	RAILWAY
	FLOOD CONTROL STRUCTURE

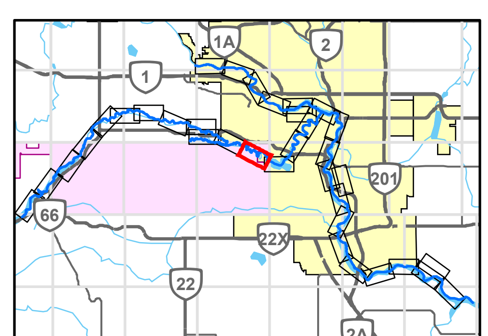
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

25mm

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:01:36 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

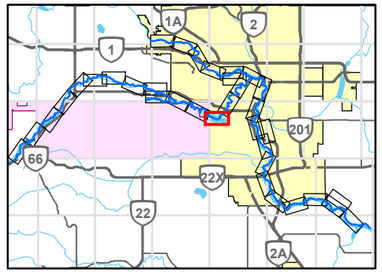
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1440 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:03:01 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

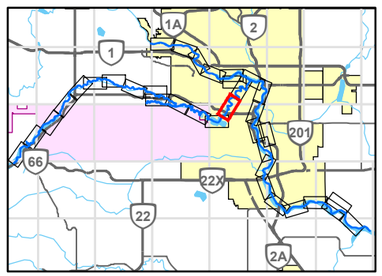
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 1440 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

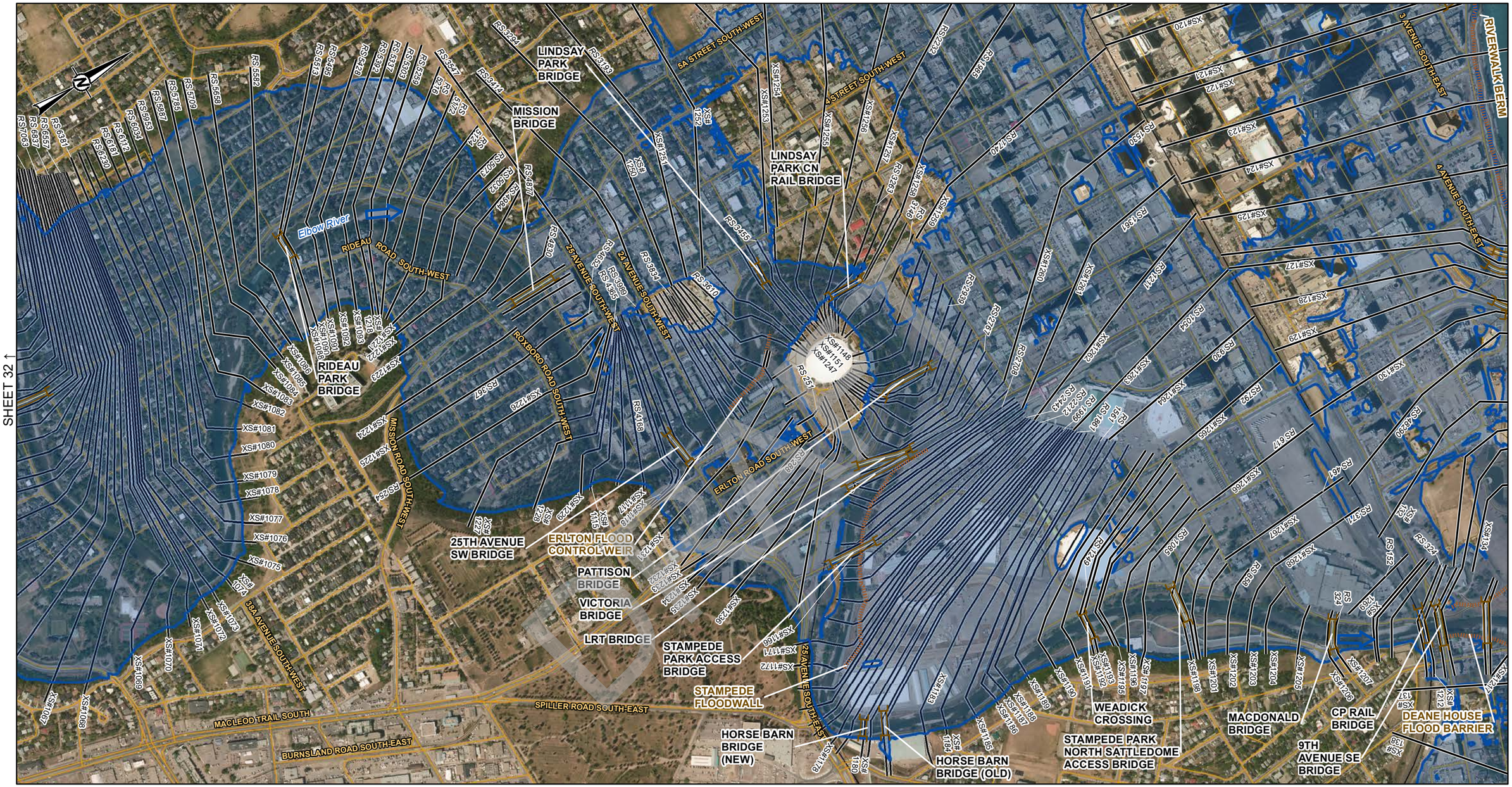
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:04:44 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

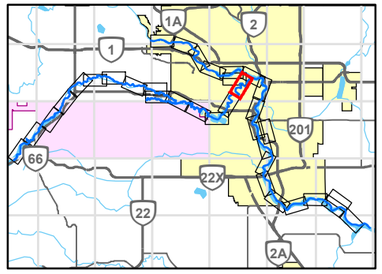
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1440 M^3/S
BOW RIVER BELOW ELBOW RIVER = 3710 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

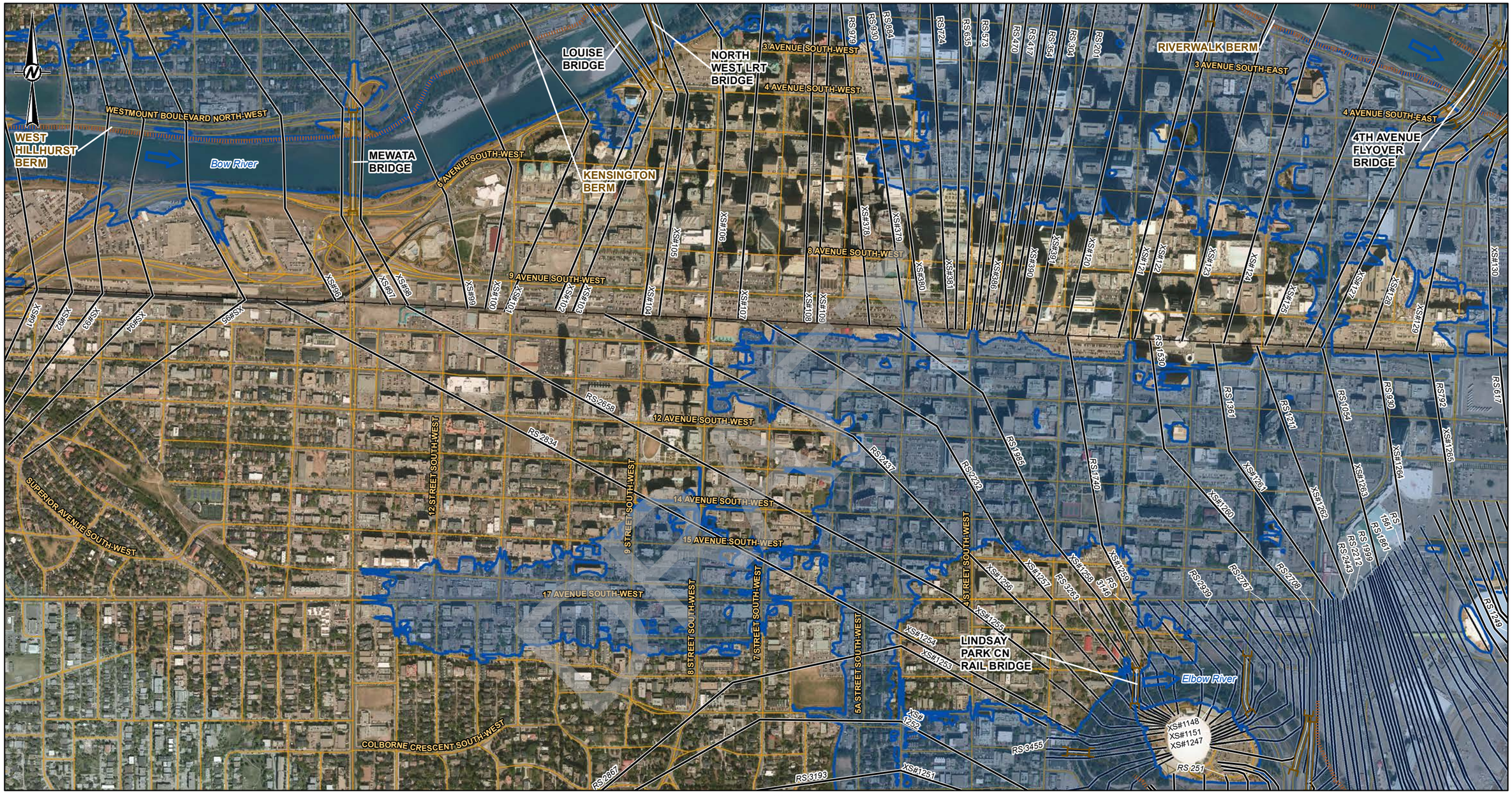
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0350y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:08:03 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

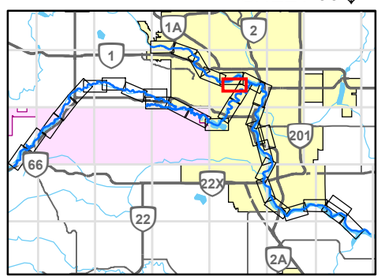
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

350-YEAR FLOOD INUNDATION EXTENT

- 350-YEAR FLOOD EXTENT
- 350-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3330 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1440 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
350-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

SHEET 33 ↓

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_035dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:07:40 PM
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
Classification: Public

500-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

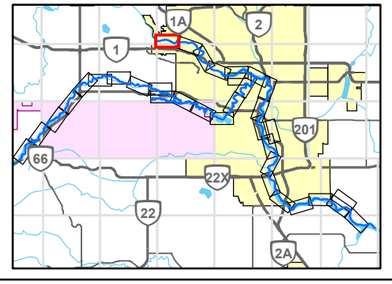
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050(b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:25:22 PM

Classification: Public

SHEET 1 ↑

SHEET 3 ↓

CP RAIL TWIN BRIDGES (SIDE CHANNEL)

BOWMONT BRIDGE (SIDE CHANNEL)

BOWMONT BRIDGE

85TH STREET NW BRIDGE

CP RAIL TWIN BRIDGES

51 AVENUE NORTH-WEST

67 STREET NORTH-WEST

SILVERVIEW DRIVE NORTH-WEST

RS 63795

RS 64212

RS 63720

RS 63573

RS 63493

RS 63162

RS 62954

RS 62746

RS 62477

RS 62153

RS 61879

RS 64750

RS 64915

RS 65103

RS 65296

RS 65467

RS 65687

RS 64528

RS 64557

RS 64410

Bow River

49 AVENUE NORTH-WEST

47 AVENUE NORTH-WEST

44 AVENUE NORTH-WEST

43 AVENUE NORTH-WEST

41 AVENUE NORTH-WEST

39 AVENUE NORTH-WEST

37 AVENUE NORTH-WEST

36 AVENUE NORTH-WEST

35 AVENUE NORTH-WEST

29 AVENUE NORTH-WEST

70 STREET NORTH-WEST

72 STREET NORTH-WEST

73 STREET NORTH-WEST

75 STREET NORTH-WEST

69 STREET NORTH-WEST

67 STREET NORTH-WEST

81 STREET NORTH-WEST

80 STREET NORTH-WEST

76 STREET NORTH-WEST

89 STREET NORTH-WEST

88 STREET NORTH-WEST

86 STREET NORTH-WEST

83 STREET NORTH-WEST

77 STREET NORTH-WEST

BOWGLEN ROAD NORTH-WEST

34 AVENUE NORTH-WEST

33 AVENUE NORTH-WEST

PALM WAY NORTH-WEST

APPLE WAY NORTH-WEST

WILLOW WAY NORTH-WEST

ASPEN WAY NORTH-WEST

ASPEN DRIVE NORTH-WEST

CEDAR WAY NORTH-WEST

201

1

XS#1 XS#2 XS#3 XS#4 XS#5 XS#6 XS#7 XS#8 XS#9 XS#10 XS#11 XS#12 XS#13 XS#14 XS#15 XS#16 XS#17 XS#18 XS#19 XS#20 XS#21 XS#22 XS#23 XS#24 XS#25 XS#26 XS#27 XS#28 XS#29 XS#30 XS#31 XS#32 XS#33 XS#34 XS#35 XS#36 XS#37 XS#38 XS#39 XS#40 XS#41 XS#42

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

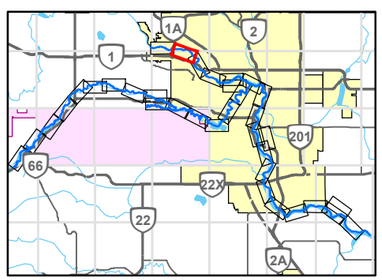
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 05\0\y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:26:34 PM

Classification: Public

SHEET 2 ↑

SHEET 4 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

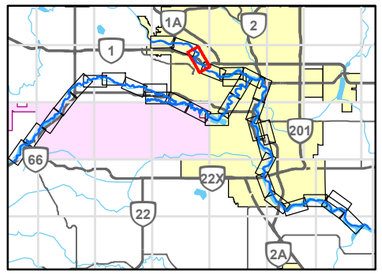
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:27:58 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

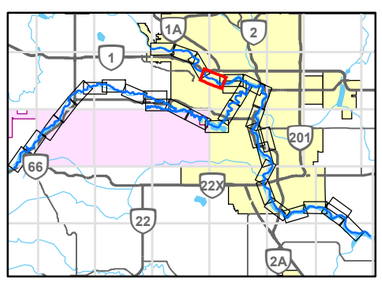
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:29:35 PM

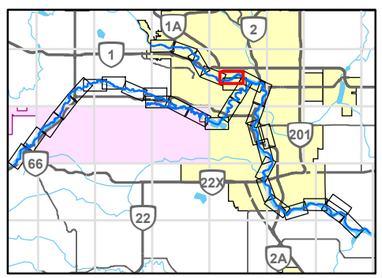
Classification: Public

SHEET 4 ↑

SHEET 6 ↓

10 AVENUE NORTH-WEST
8 AVENUE NORTH-WEST
6 AVENUE NORTH-WEST
3 AVENUE NORTH-WEST
1 AVENUE NORTH-WEST
WESTMOUNT ROAD NORTH-WEST
WESTMOUNT BOULEVARD NORTH-WEST
GLADSTONE ROAD NORTH-WEST
15 STREET NORTH-WEST
16 STREET NORTH-WEST
13 STREET NORTH-WEST
11 STREET NORTH-WEST
7 STREET NORTH-WEST
5A STREET NORTH-WEST
4A STREET NORTH-WEST
1 AVENUE SOUTH-WEST
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
5 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
3 AVENUE SOUTH-EAST
SUNNYSIDE BARRIER
PEACE BRIDGE
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
MEWATA BRIDGE
WEST HILLHURST BERM
CROWCHILD TRAIL BRIDGE
PRINCE'S ISLAND CAUSEWAY
PRINCE'S LAGOON WEIRS
WEST EAU CLAIRE FLOOD BARRIER
JAIPUR BRIDGE
PRINCE'S ISLAND BRIDGE
PRINCE'S ISLAND BRIDGE ON SIDE CHANNEL
CENTRE STREET BRIDGE
CENTRE STREET BRIDGE BARRIER
MEMORIAL DRIVE BERM
Bow River

SHEET 33 & 34 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

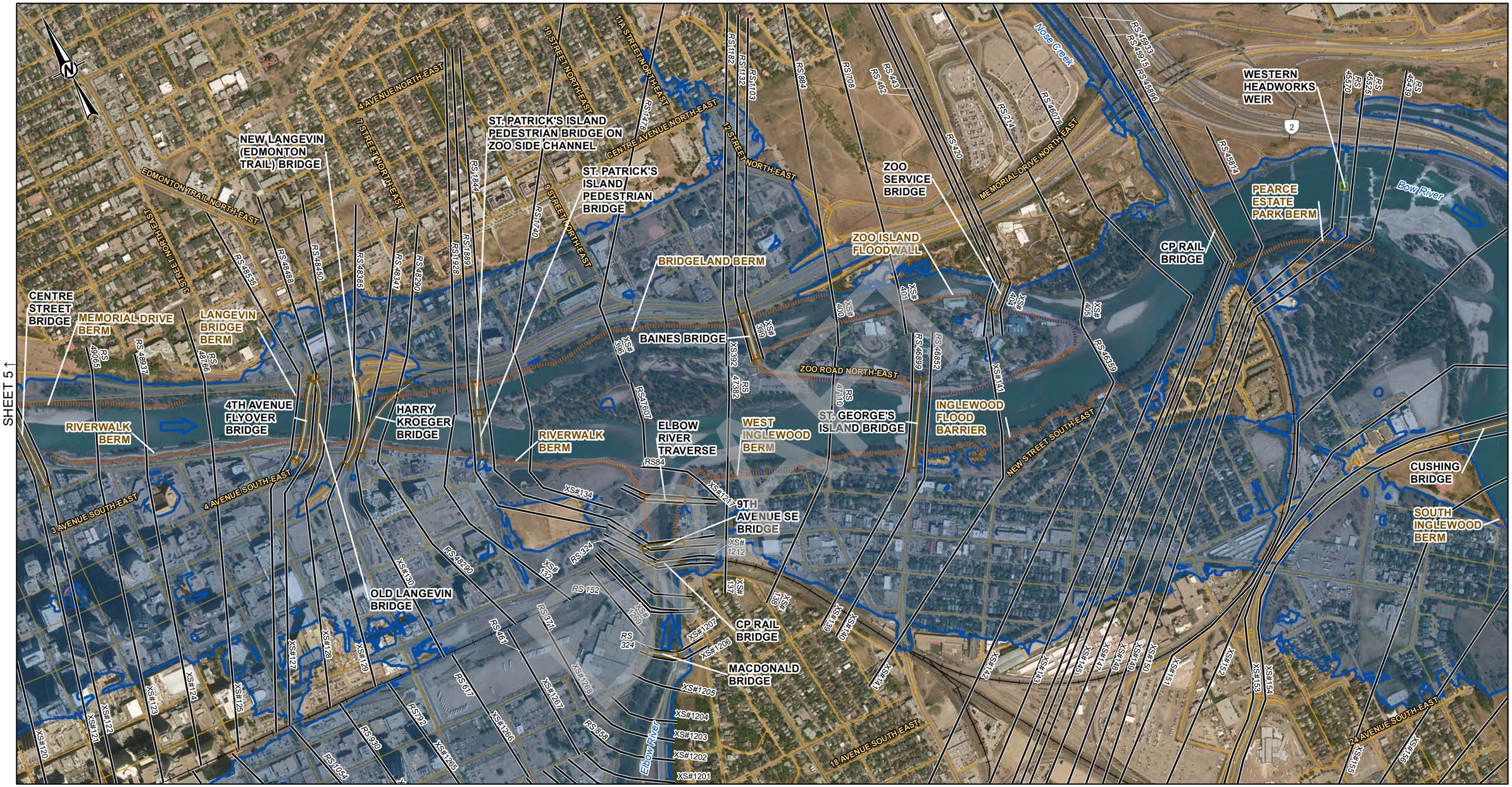
C:\PATH I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050{lv-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:39:47 PM

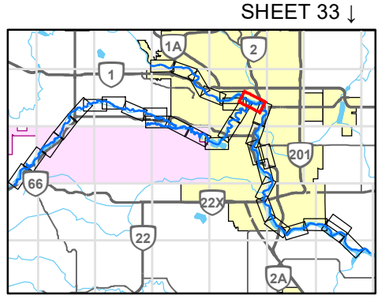
Classification: Public

SHEET 5 ↑

SHEET 7 ↓

SHEET 33 ↓





LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1660 M^3/S
BOW RIVER BELOW ELBOW RIVER = 4190 M^3/S
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0509y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:32:15 PM

Classification: Public

SHEET 8 ↓

SHEET 5 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: \\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0510y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:33:37 PM

Classification: Public

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40516
RS 40788
RS 40663
RS 40378
RS 40371
RS 40254
RS 40065
RS 39997
RS 39942
RS 39634
RS 39597
RS 39577
RS 39436
RS 39313
RS 39262
RS 39120
RS 38865
RS 38725
RS 38662
RS 38513
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 3166
RS 37530
RS 37460
RS 37417
RS 37301
RS 37023
RS 36882
RS 36741
RS 36303

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
13 STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST
12 STREET SOUTH-EAST
10 STREET SOUTH-EAST
RAILWAY STREET SOUTH-EAST
12A STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST

CALF ROBE BRIDGE
CN RAIL BRIDGE
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

5650000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

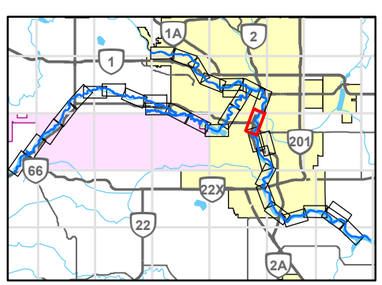
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

25mm
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 050ly-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:34:58 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RS 37629

RS 37630

RS 37631

RS 37629

RS 36682

RS 36674

RS 36303

RS 36009

RS 35723

RS 35602

RS 35419

RS 35275

RS 35196

RS 34869

RS 34760

RS 34758

RS 34557

560

18 STREET SOUTH-EAST

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

ERIC HARVIE BRIDGE

QUARRY PARK BERM

QUARRY WAY SOUTH-EAST

IVOR STRONG BRIDGE

Bow River

SOUTHLAND DRIVE SOUTH-EAST

2

XS#210

XS#211

XS#212

XS#213

XS#214

XS#215

XS#216

XS#217

XS#218

XS#219

XS#220

XS#221

XS#222

XS#223

XS#224

XS#225

XS#226

XS#227

XS#228

XS#229

XS#230

XS#231

XS#232

DRAFT

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

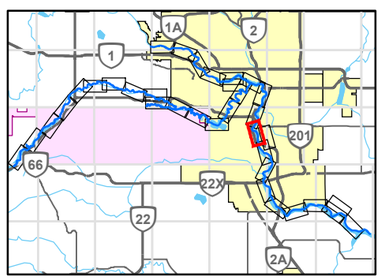
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

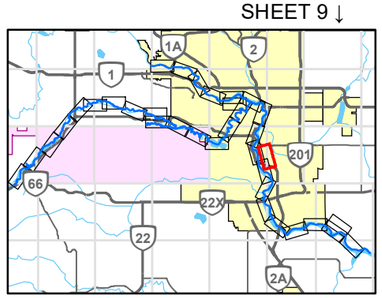
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:36:07 PM

Classification: Public

SHEET 8 ↑

SHEET 10 ↓

SHEET 9 ↓



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

© 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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:37:29 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

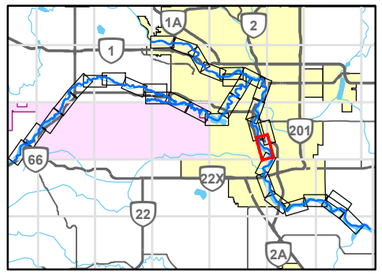
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0501y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:38:34 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

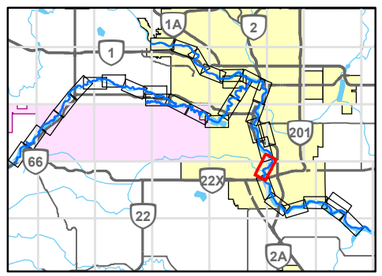
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4240 M^3/S
BOW RIVER BELOW FISH CREEK = 4700 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

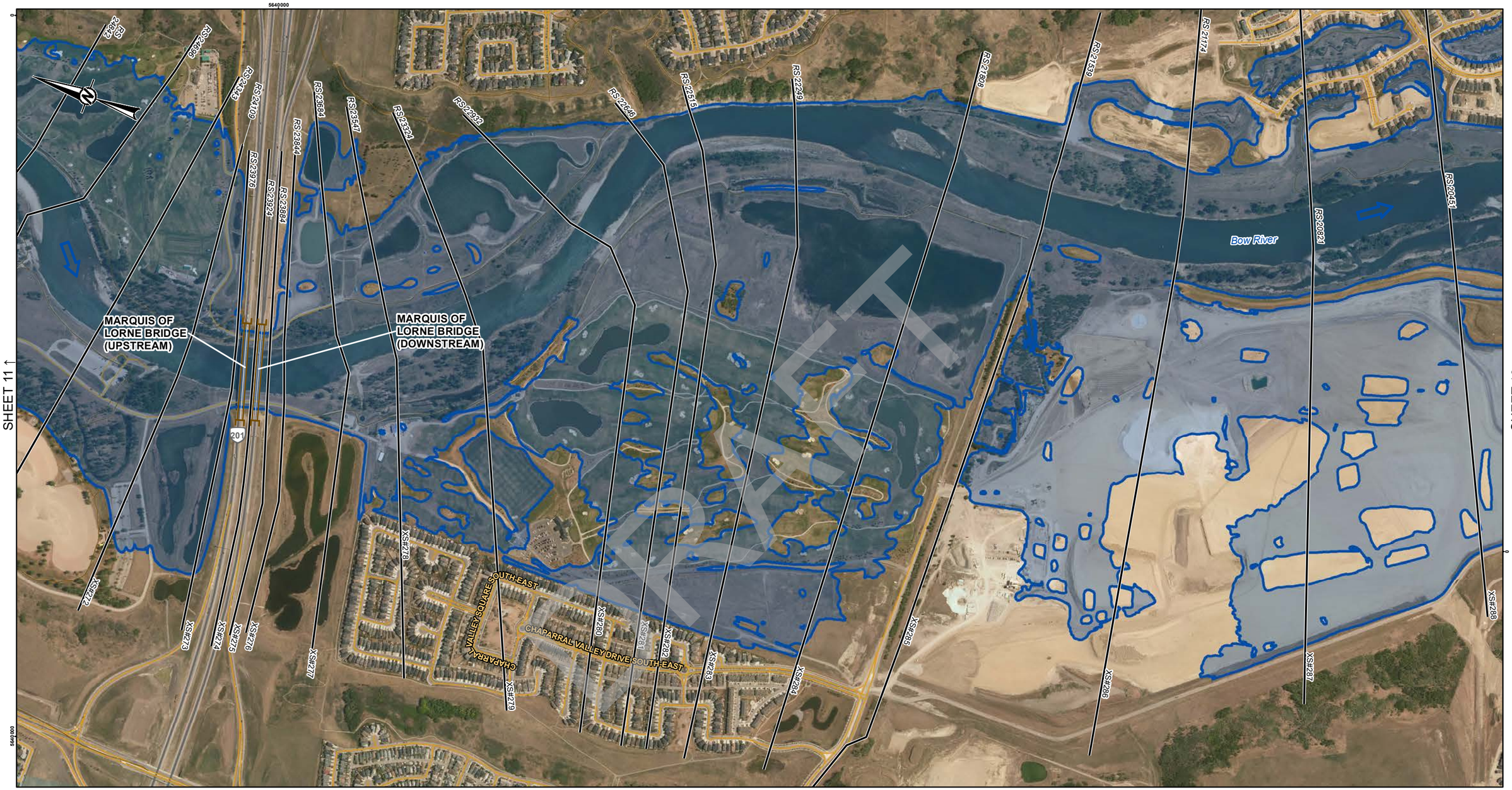
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0504y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:39:48 PM

Classification: Public



SHEET 11 ↑

SHEET 13 ↓

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

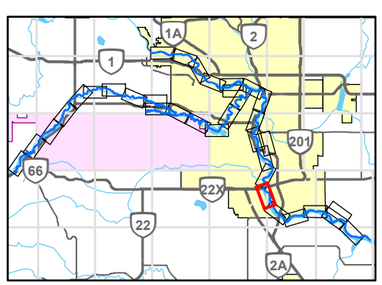
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 4700 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0501y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:4 1:09 PM

Classification: Public

DRAFT

SHEET 12 ↑

SHEET 14 ↓

RS 20837
RS 20437
RS 20090
RS 19816
RS 19564
RS 19337
RS 19051
RS 18685
RS 18436
RS 18309
RS 18123
RS 17863
RS 17498
RS 17236
RS 16920
RS 16402
RS 16136
RS 15672

Bow River

XS#289
XS#290
XS#291
XS#292
XS#293
XS#294
XS#295
XS#296
XS#297
XS#298
XS#299
XS#300
XS#301
XS#302

DUNBOW ROAD BRIDGE (UPSTREAM)

DUNBOW ROAD BRIDGE (DOWNSTREAM)

LEGACY CIRCLE SOUTH-EAST

Pine Creek

2

0

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

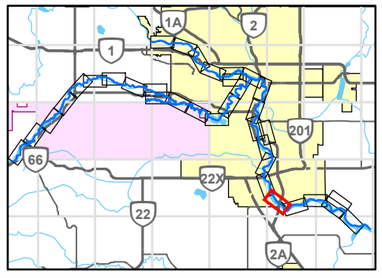
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 4700 M^3/S
BOW RIVER BELOW PINE CREEK = 5390 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0509y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:42:35 PM

Classification: Public

SHEET 13 ↑

SHEET 15 ↓

RS 17496
RS 17276
RS 16920
RS 16436
RS 16202
RS 15672
RS 15472
RS 15202
RS 14936
RS 14680
RS 14372
RS 14047
RS 13661
RS 13385
RS 13036
RS 12653

Bow River

BOW RIVER BOTTOM TRAIL EAST

230 AVENUE EAST

232 AVENUE EAST

XS#303
XS#304
XS#305
XS#306
XS#307
XS#308
XS#309
XS#310
XS#311
XS#312
XS#313
XS#314

DRAFT

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

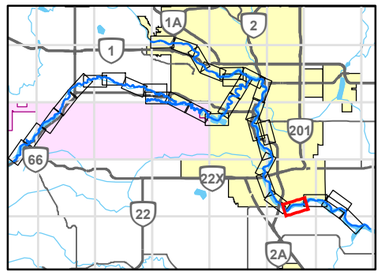
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 5390 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

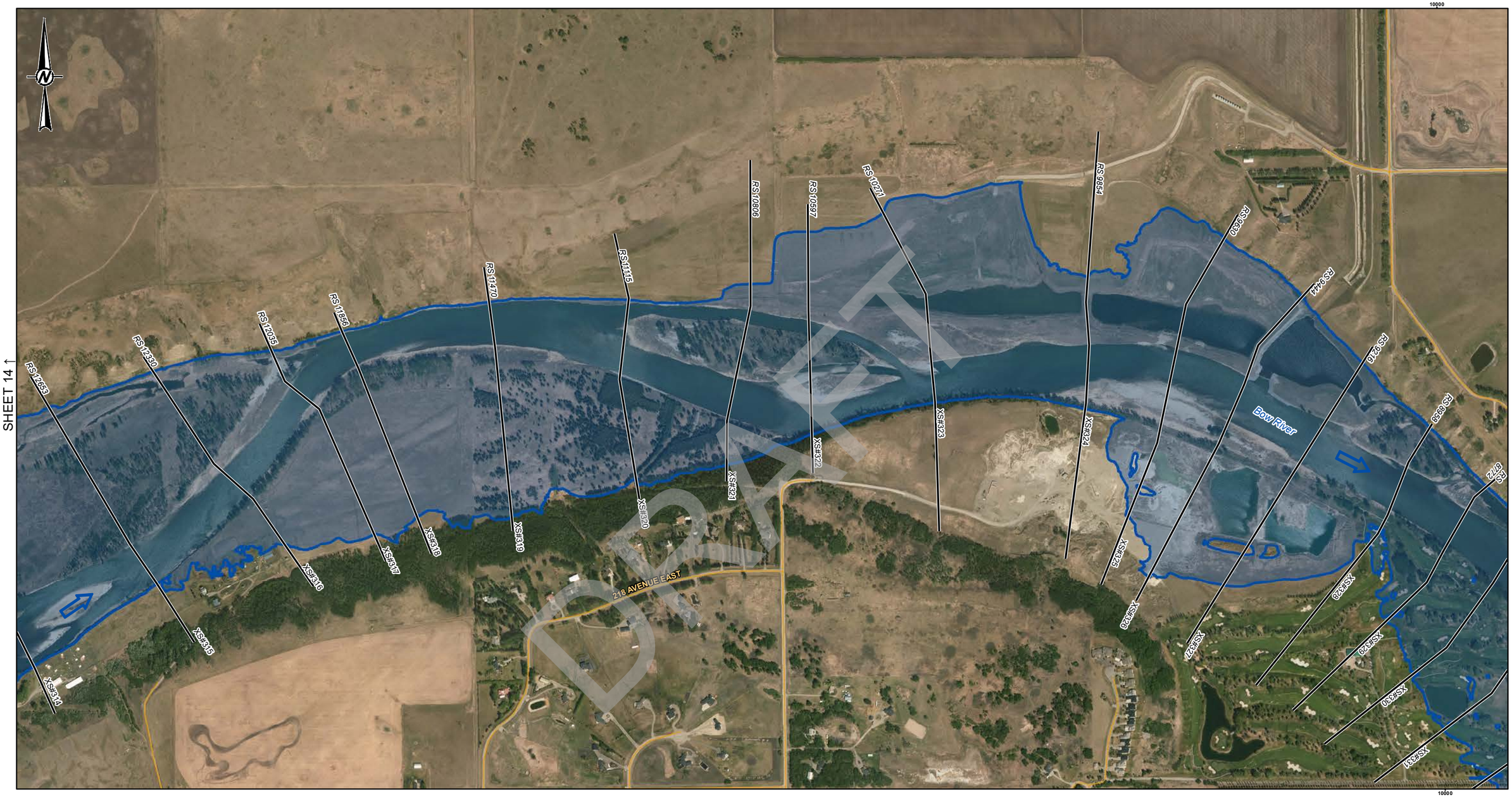
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:43:51 PM

Classification: Public

SHEET 14 ↑

SHEET 16 ↓



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

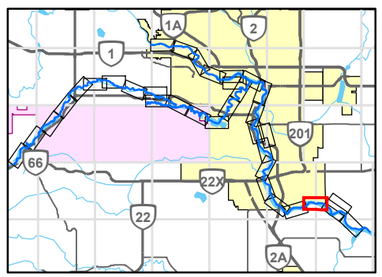
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 5390 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 4830 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0501y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:44:51 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

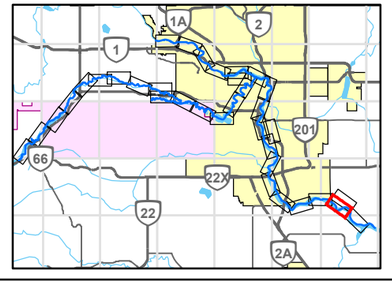
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4830 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

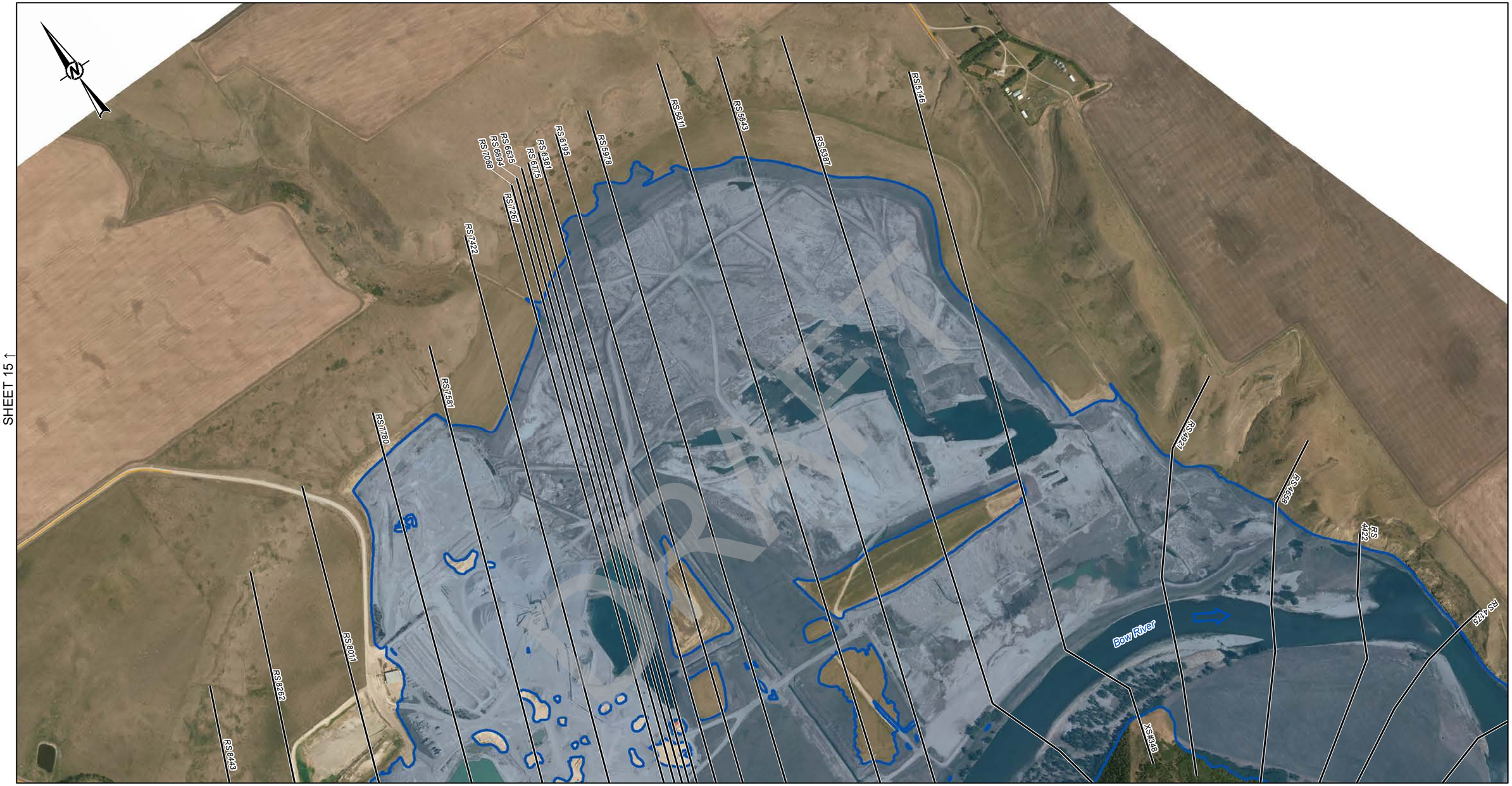
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 05\0\y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:46:01 PM

Classification: Public



SHEET 15 ↑

SHEET 18 ↓

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

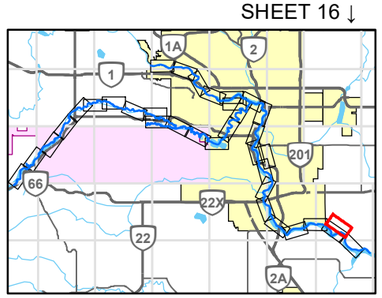
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4830 M^3/S

SHEET 16 ↓



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0501y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:47:09 PM

Classification: Public

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

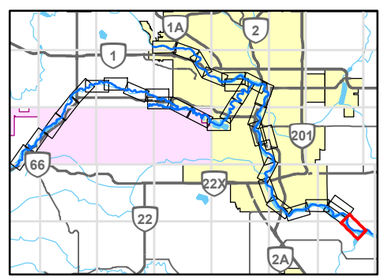
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 4830 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

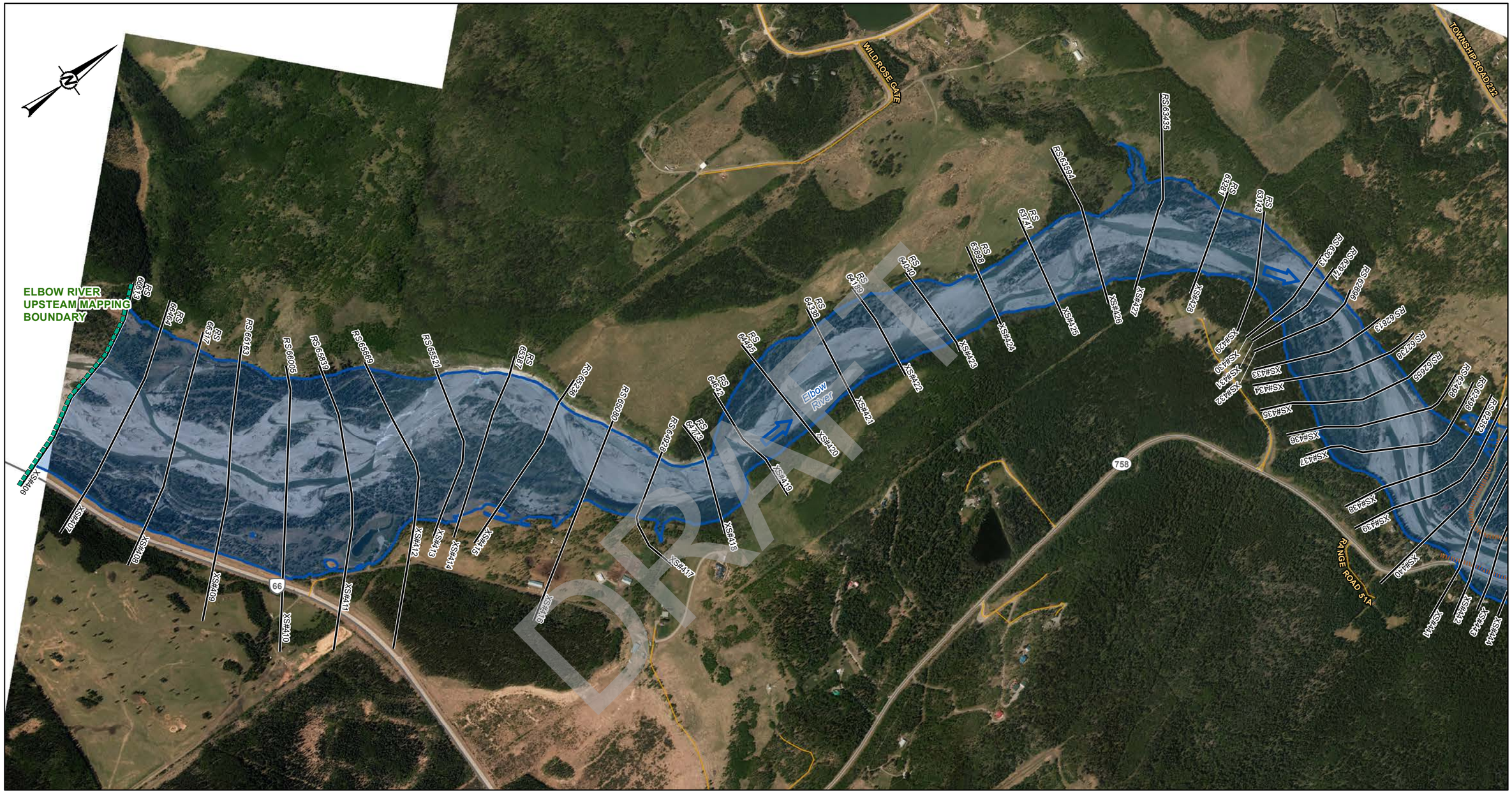
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:48:19 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

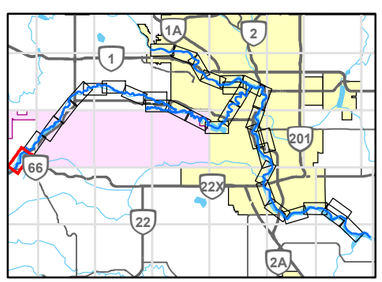
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

SHEET 20 ↓

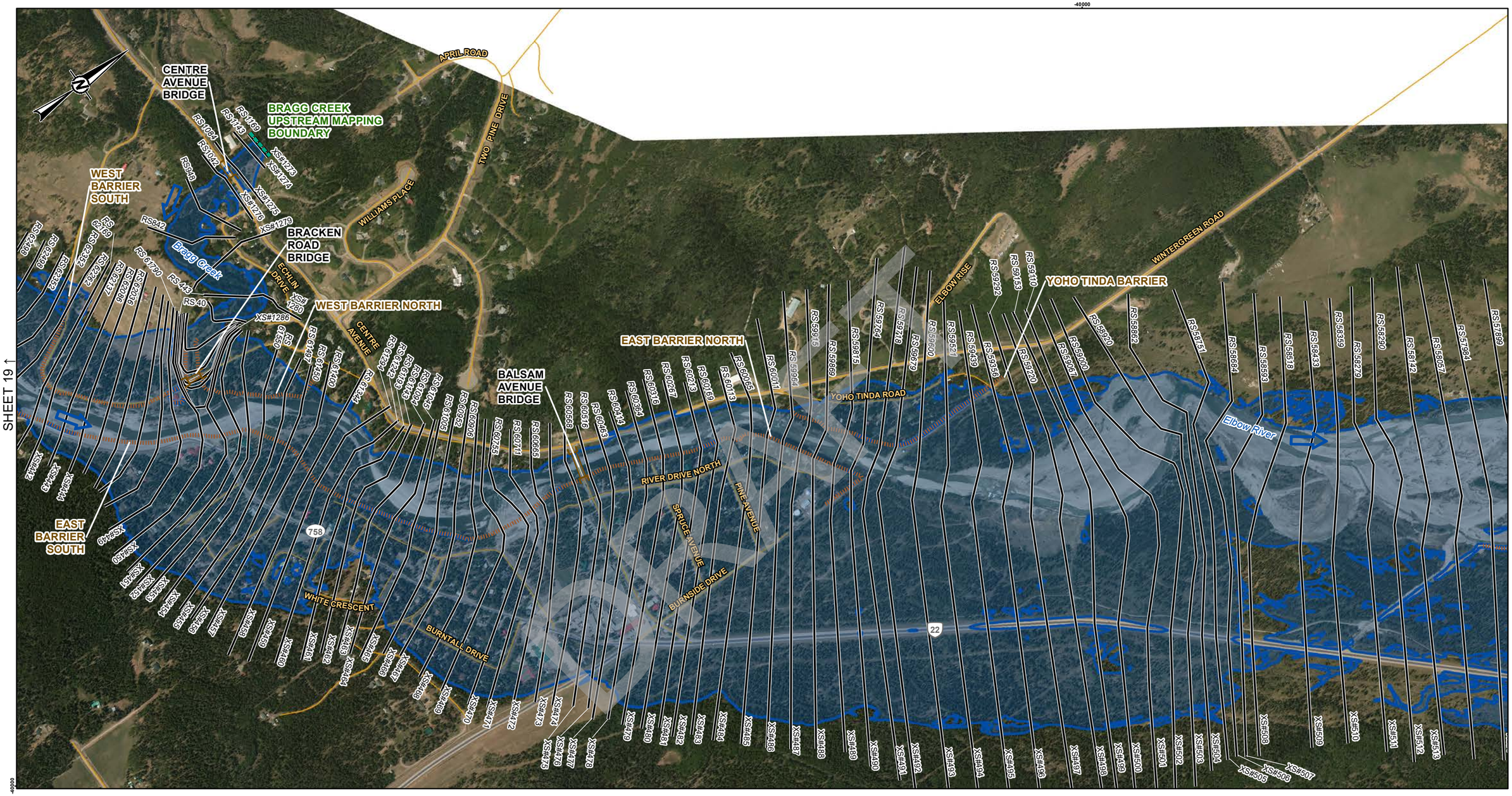
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0509y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:49:29 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

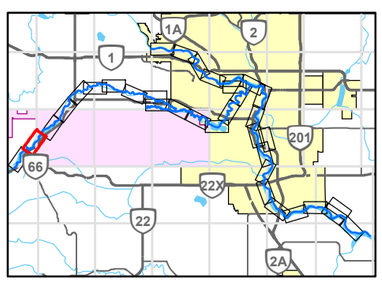
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S
BRAGG CREEK = 83.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

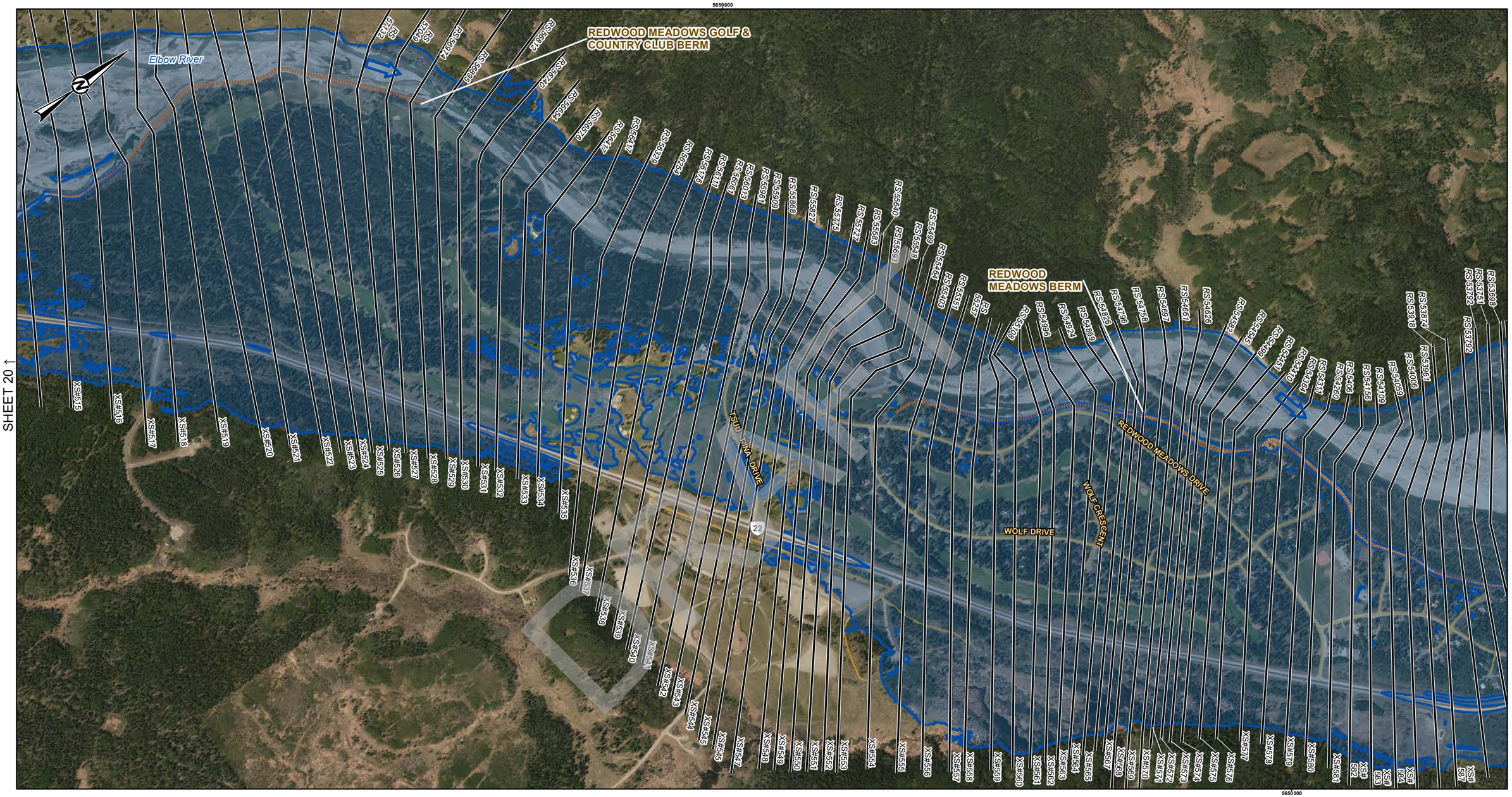
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0509y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:59:24 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

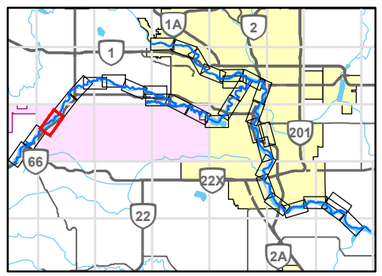
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

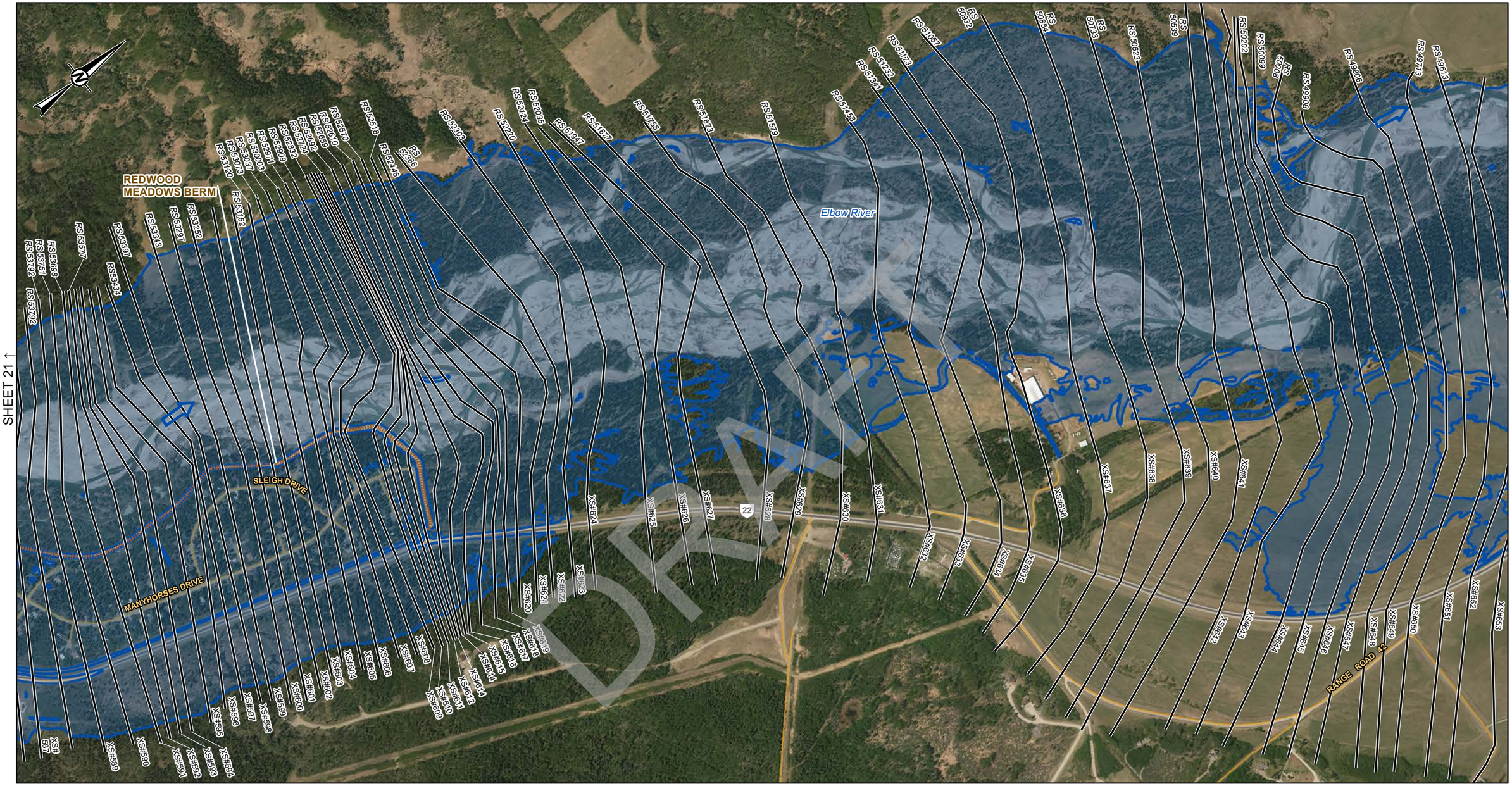
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05\0y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:5:19 PM

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

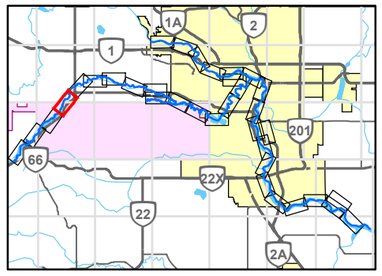
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

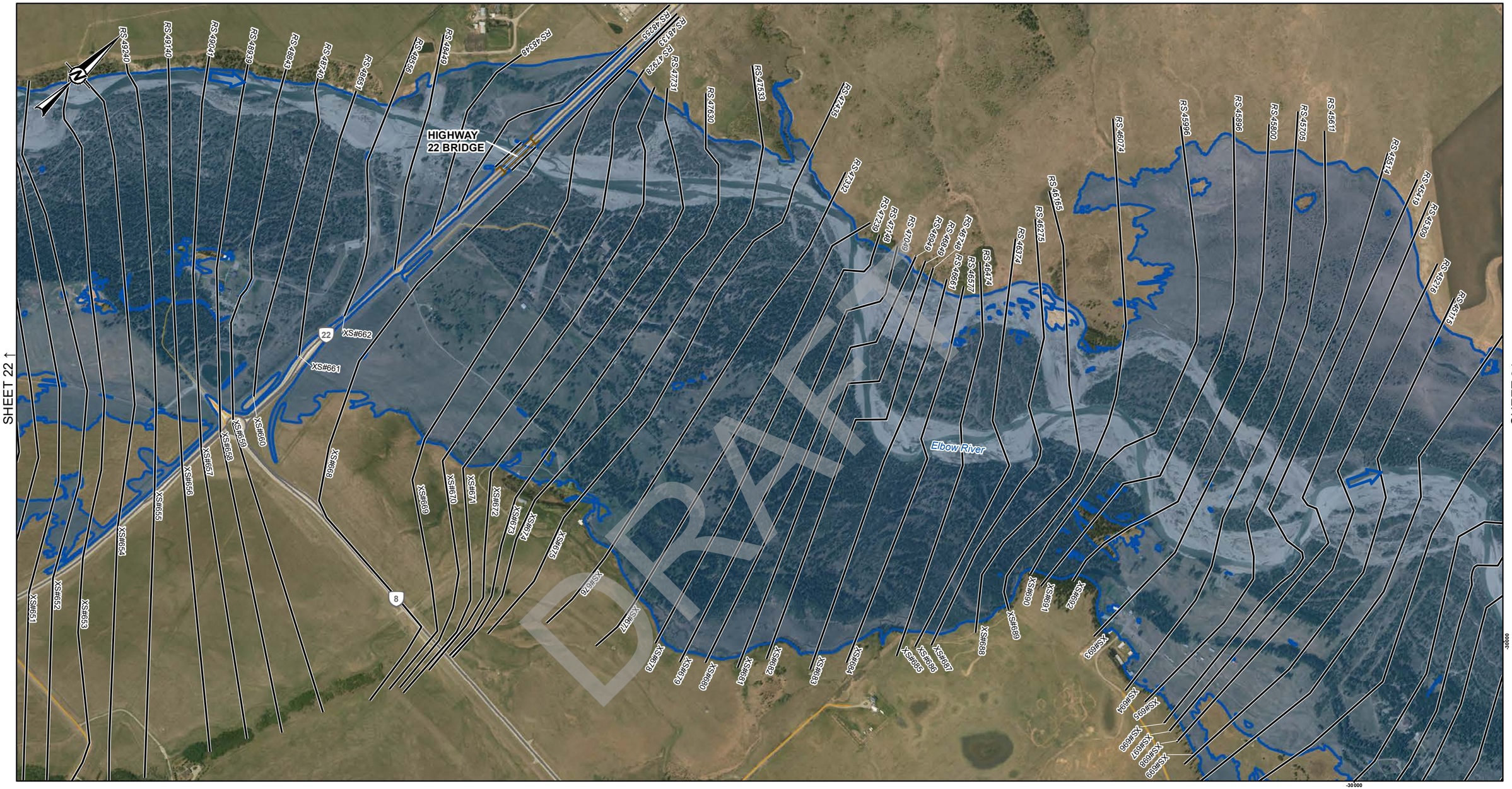
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0503y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:52:14 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

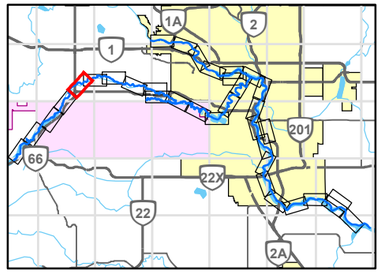
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

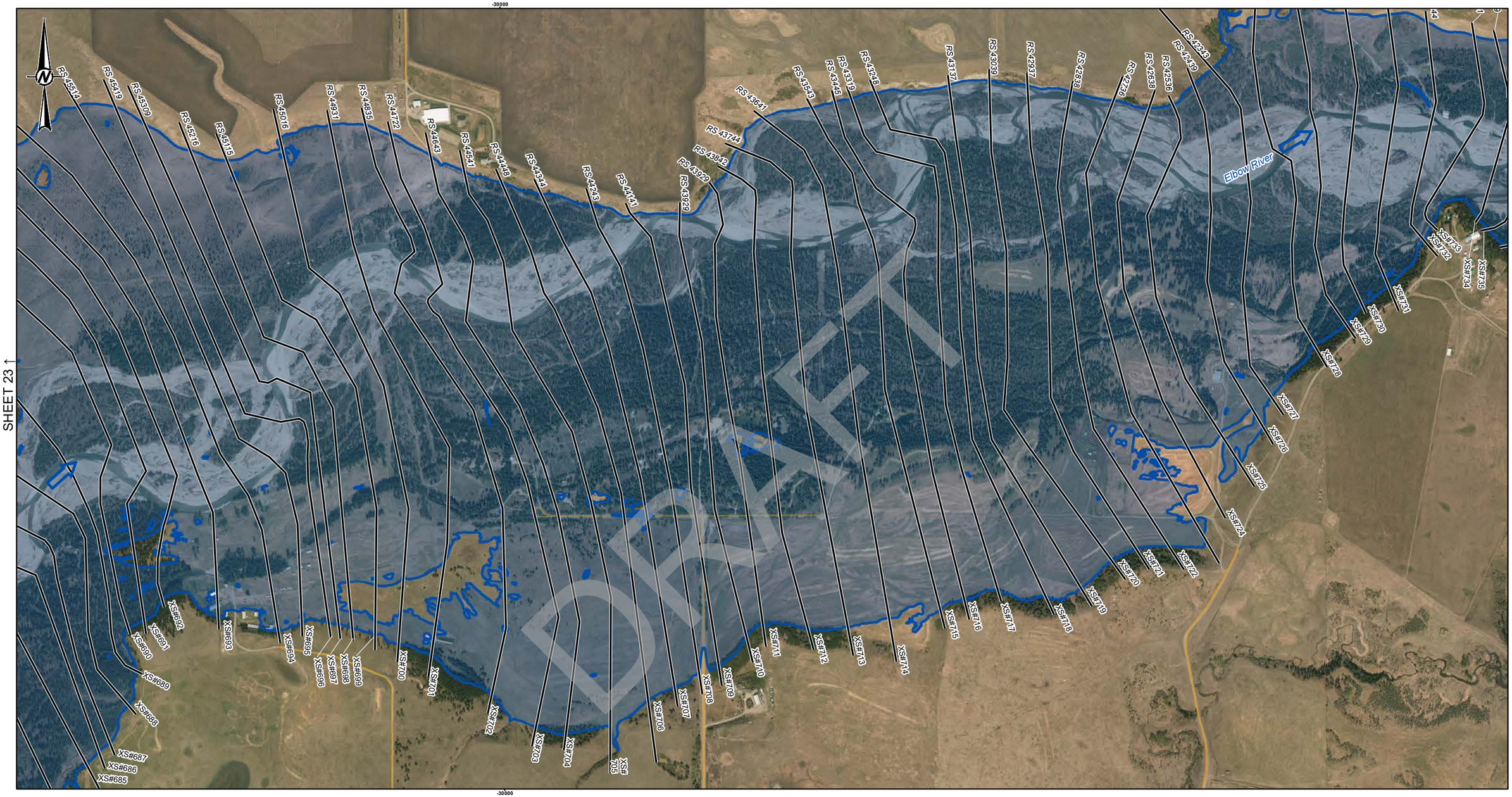
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:53:06 PM

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

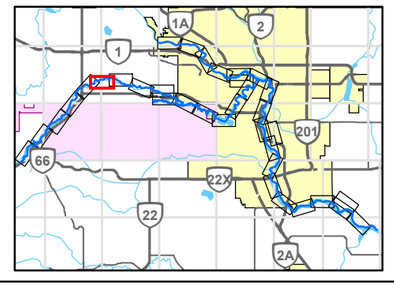
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

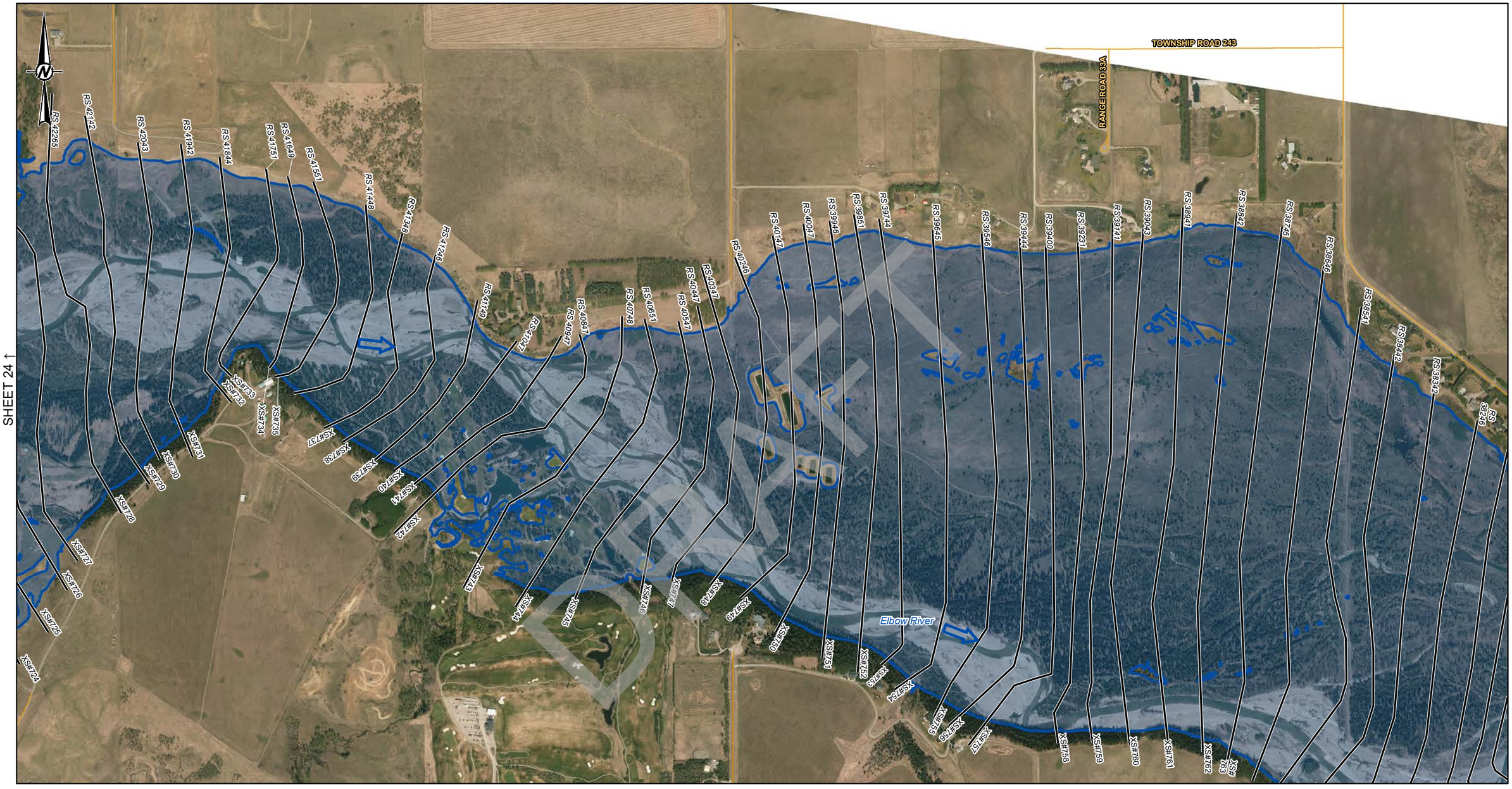
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

Classification: Public

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_05(0)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:53:44 PM



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

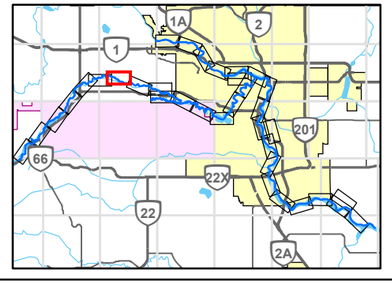
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

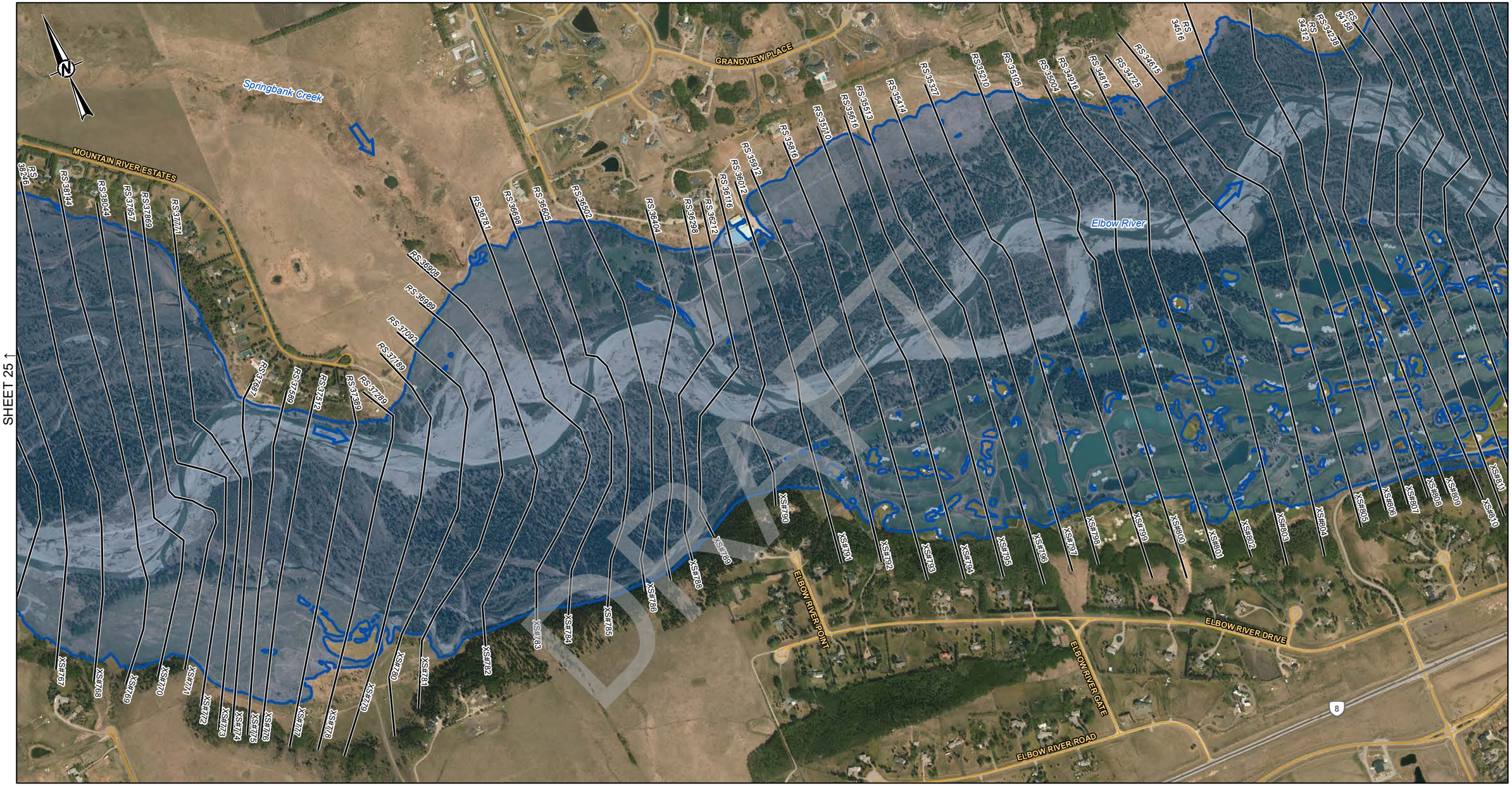
0 25mm

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0510y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:54:19 PM

SHEET 25 ↑

SHEET 27 ↓



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

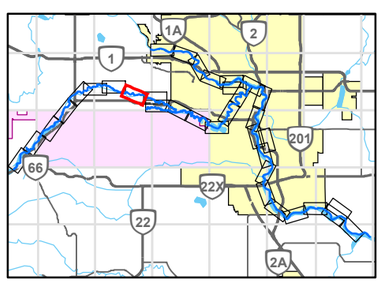
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1660 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

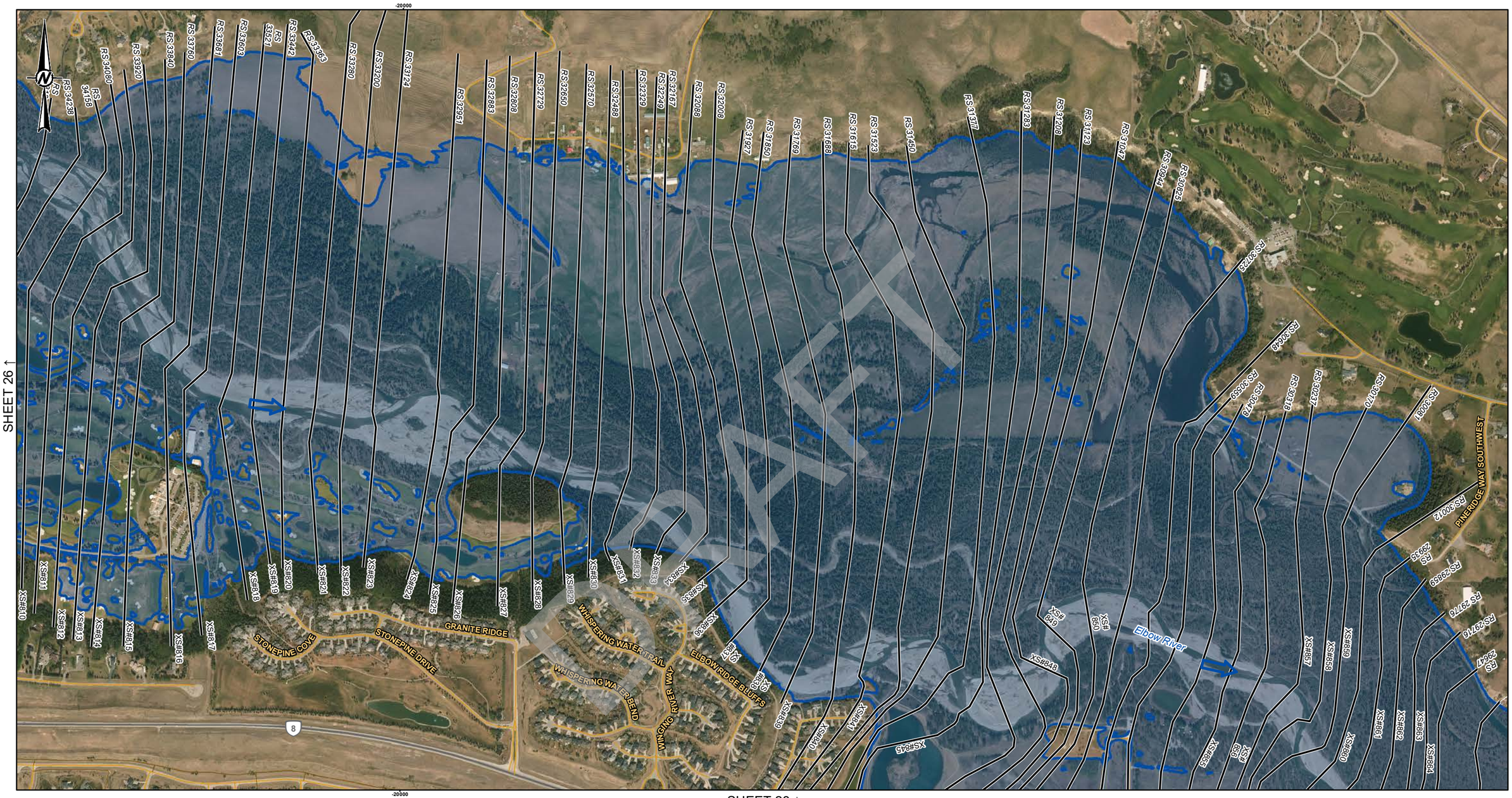
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_060b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:55:09 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

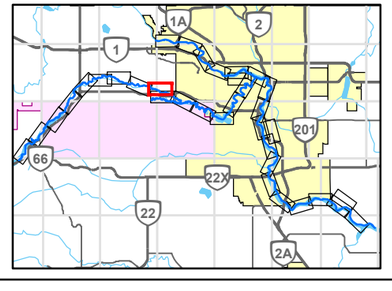
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S
LOTT CREEK = 47.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

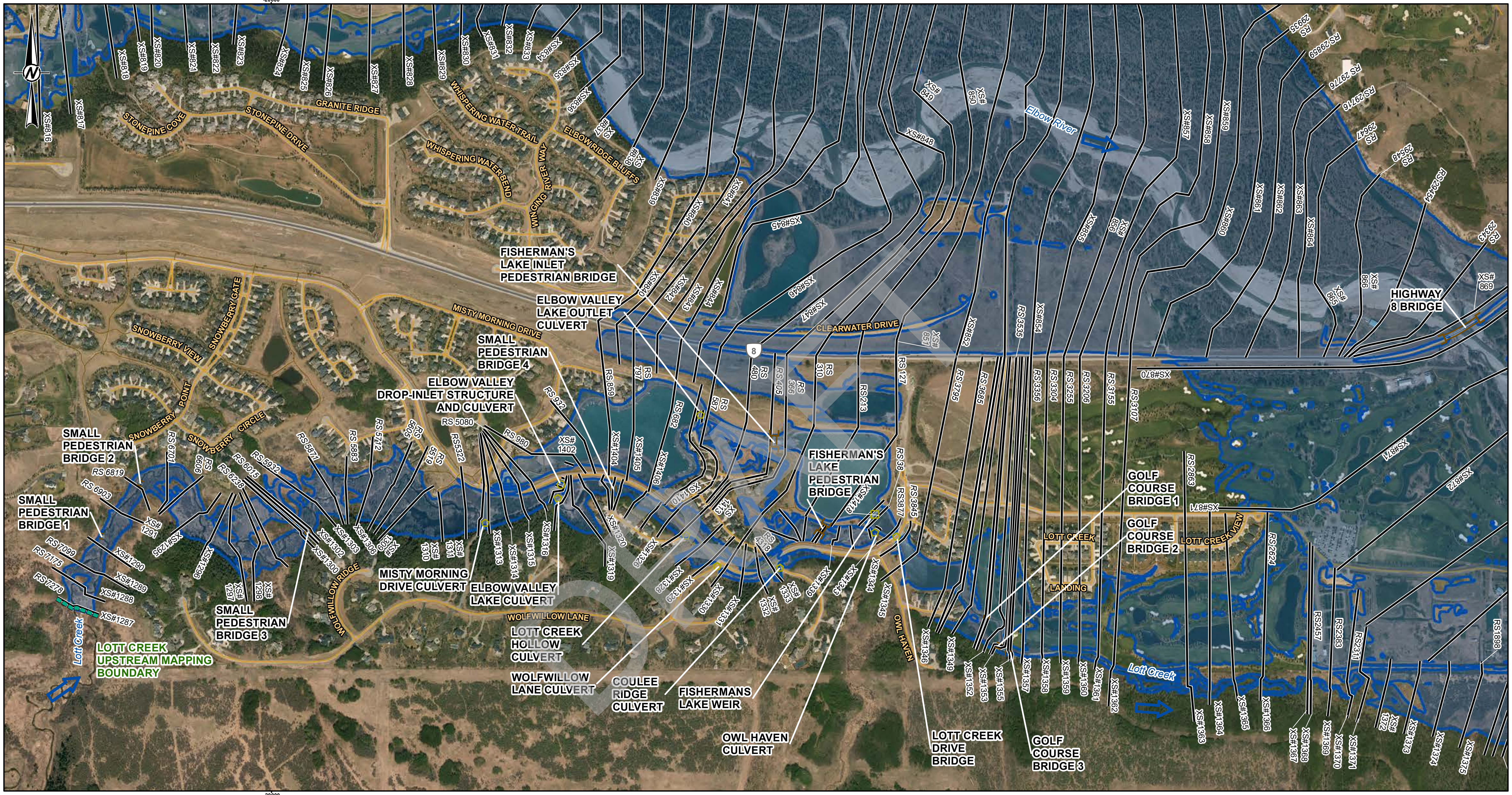
25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_060b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:58:32 PM

Classification: Public

SHEET 27 ↑



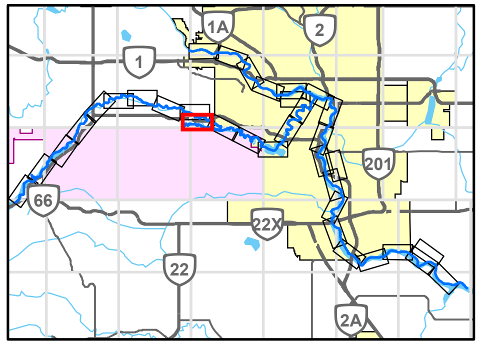
LEGEND

CROSS SECTION	FLOOD CONTROL STRUCTURE
XS#100 CROSS SECTION NUMBER	**HYDRAULIC STRUCTURES**
RS 304 RIVER STATION (M)	CULVERT
STUDY BOUNDARY	DAM
FLOW DIRECTION	OTHER
LOCAL ROAD	WEIR
PATHWAY	BRIDGE
PRIMARY HIGHWAY	
SECONDARY HIGHWAY	
RAILWAY	

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S
LOTT CREEK = 47.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:57:58 PM

Classification: Public

SHEET 28 ↑

SHEET 30 ↓

HIGHWAY 8 CULVERT

HIGHWAY 8 BRIDGE

Elbow River

DISCOVERY RIDGE HILL SOUTH-WEST

DISCOVERY RIDGE BOULEVARD SOUTH-WEST

DISCOVERY DRIVE SOUTH-WEST

RS 28369 RS 28310 RS 28497 RS 28664 RS 28169 RS 28113 RS 27993 RS 27871 RS 27712 RS 27540 RS 27385 RS 27226 RS 27003 RS 26904 RS 26810 RS 26672 RS 26630 RS 26419 RS 26235 RS 26088 RS 26047 RS 25697 RS 25556 RS 25432 RS 25370 RS 25223 RS 25076 RS 24997 RS 24824 RS 24669 RS 24527 RS 24441 RS 24343 RS 24188 RS 24049

RS 23457 RS 23393 RS 23211 RS 1699 RS 1502 RS 1088 RS 704 RS 65

XS#669 XS#672 XS#673 XS#674 XS#676 XS#677 XS#678 XS#679 XS#680 XS#682 XS#683 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#901 XS#902 XS#903 XS#904 XS#905 XS#906 XS#907 XS#908

XS#1372 XS#1373 XS#1374 XS#1375 XS#1376 XS#1378 XS#1379 XS#1380 XS#1381 XS#1382 XS#1383 XS#1384 XS#1385 XS#1386 XS#1387 XS#1388 XS#1389 XS#1390 XS#1391 XS#1392 XS#1393 XS#1394 XS#1395 XS#1396 XS#1397 XS#1398 XS#1399

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

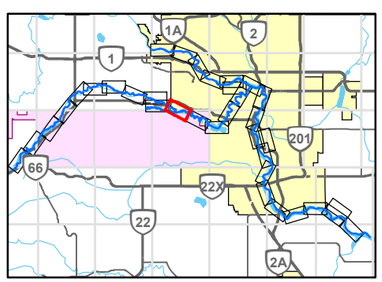
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S
LOTT CREEK = 47.5 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:59:44 PM

Classification: Public

SHEET 29 ↑

SHEET 31 ↓

-10000

5650000

-10000

GREY EAGLE DRIVE BRIDGE

WEASELHEAD GLENMORE PATHWAY

Elbow River

RS 24049 RS 23936 RS 23739 RS 23509 RS 23360 RS 23242 RS 23121 RS 23101 RS 22908 RS 22705 RS 21963 RS 21842 RS 21709 RS 21560 RS 21434 RS 21261 RS 21119 RS 20971 RS 20800 RS 20714 RS 20522 RS 19603 RS 19701 RS 19761 RS 19353 RS 19237 RS 19232 RS 19089 RS 18926 RS 18777 RS 18629 RS 18475 RS 18361 RS 18060

XS#907 XS#908 XS#909 XS#910 XS#911 XS#912 XS#913 XS#914 XS#915 XS#916 XS#917 XS#918 XS#919 XS#920 XS#921 XS#922 XS#923 XS#924 XS#925 XS#926 XS#927 XS#928 XS#929 XS#930 XS#931 XS#932 XS#933 XS#934 XS#935 XS#936 XS#937 XS#938 XS#939 XS#940 XS#941 XS#942 XS#943 XS#944 XS#945 XS#946 XS#947 XS#948 XS#949 XS#950 XS#951 XS#952 XS#953 XS#954

DRAFT

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

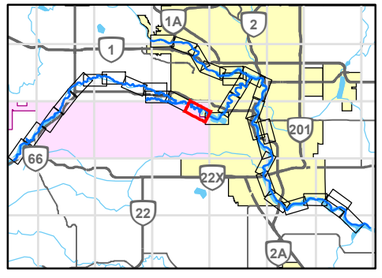
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_050\0y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 5:01:29 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

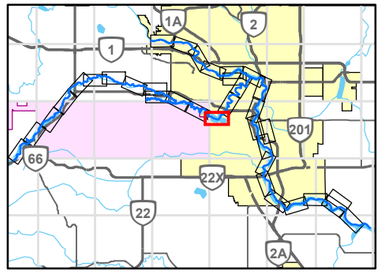
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

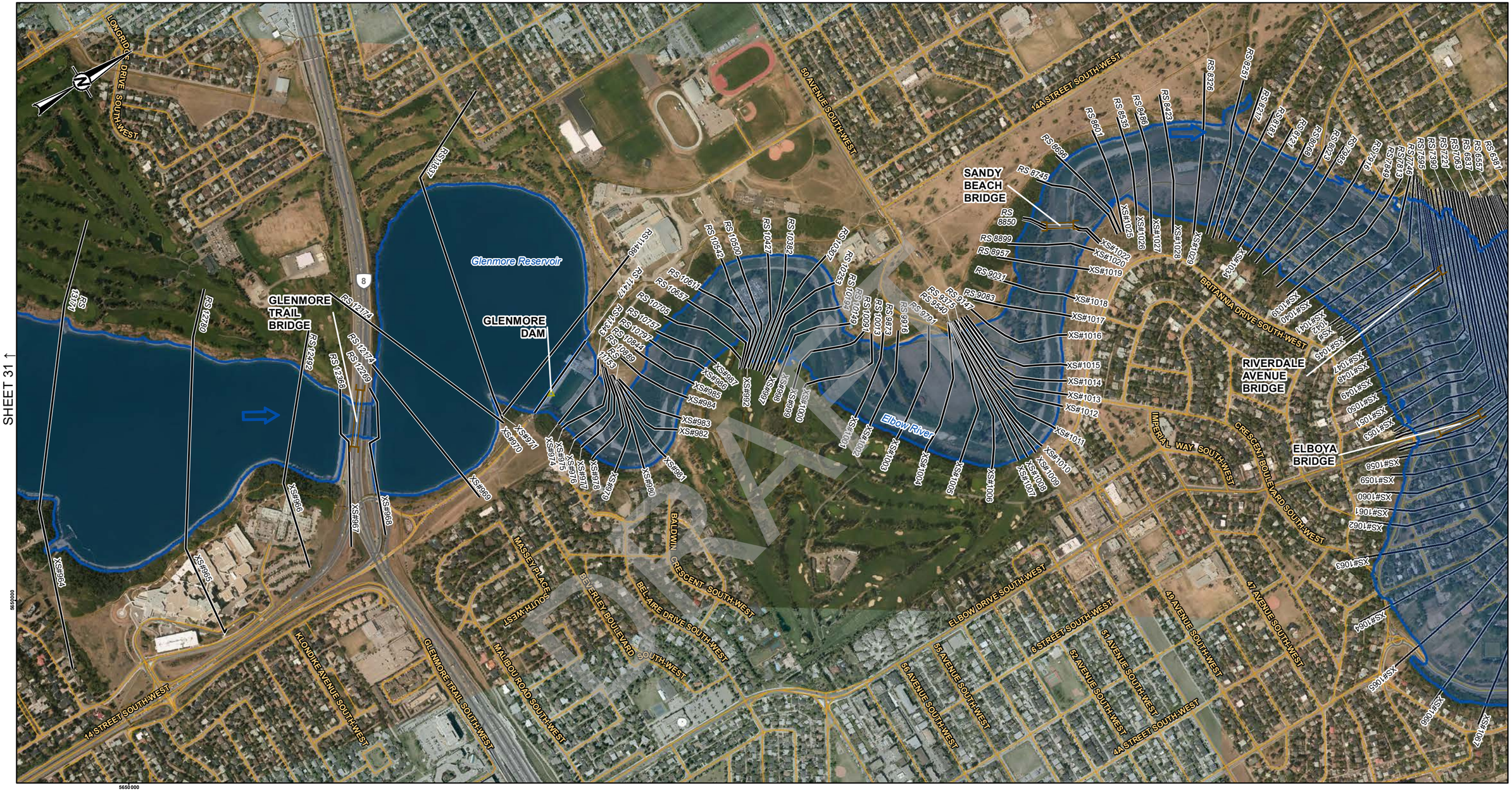
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 5:02:55 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

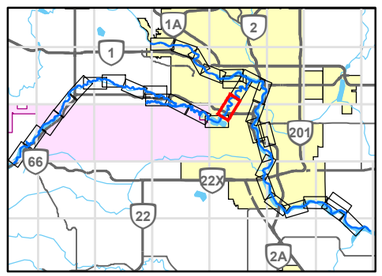
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

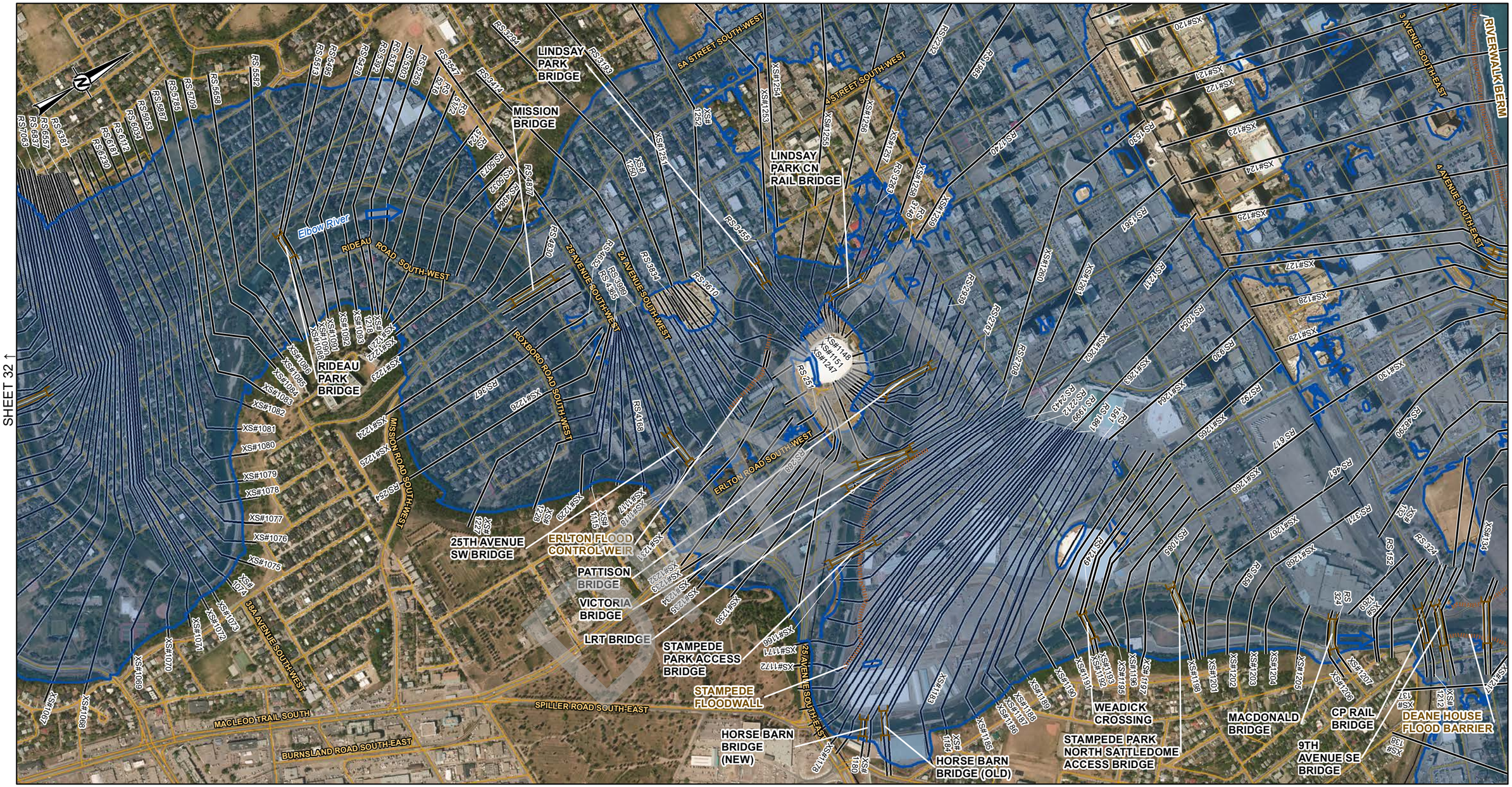
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0509y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 5:04:33 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

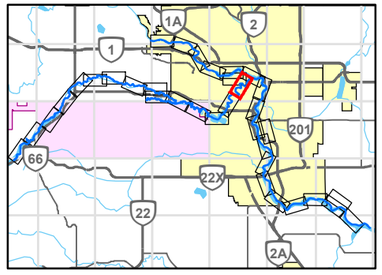
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1660 M^3/S
BOW RIVER BELOW ELBOW RIVER = 4190 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 050ly-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 5:05:59 PM

Classification: Public

SHEET 5 ↑

SHEET 33 ↓

WEST HILLHURST BERM
WESTMOUNT BOULEVARD NORTH-WEST
Bow River
MEWATA BRIDGE
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
5 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
8 AVENUE SOUTH-WEST
RIVERWALK BERM
3 AVENUE SOUTH-EAST
4 AVENUE SOUTH-EAST
4TH AVENUE FLYOVER BRIDGE
12 AVENUE SOUTH-WEST
14 AVENUE SOUTH-WEST
15 AVENUE SOUTH-WEST
17 AVENUE SOUTH-WEST
SUPERIOR AVENUE SOUTH-WEST
COLBORNE CRESCENT SOUTH-WEST
12 STREET SOUTH-WEST
9 STREET SOUTH-WEST
8 STREET SOUTH-WEST
7 STREET SOUTH-WEST
5A STREET SOUTH-WEST
4 STREET SOUTH-WEST
LINDSAY PARK CN RAIL BRIDGE
Elbow River

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

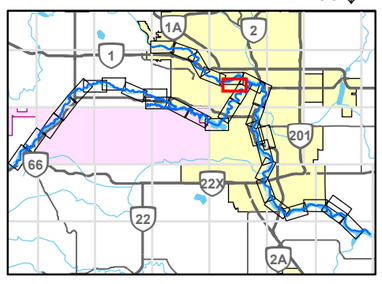
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

500-YEAR FLOOD INUNDATION EXTENT

- 500-YEAR FLOOD EXTENT
- 500-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 3790 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1660 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
500-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_i500y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 5:07:34 PM
Classification: Public

750-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

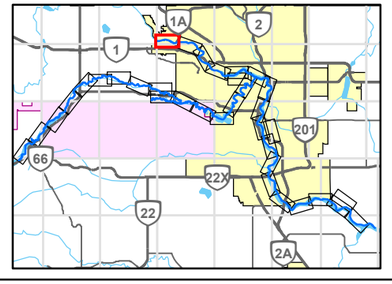
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

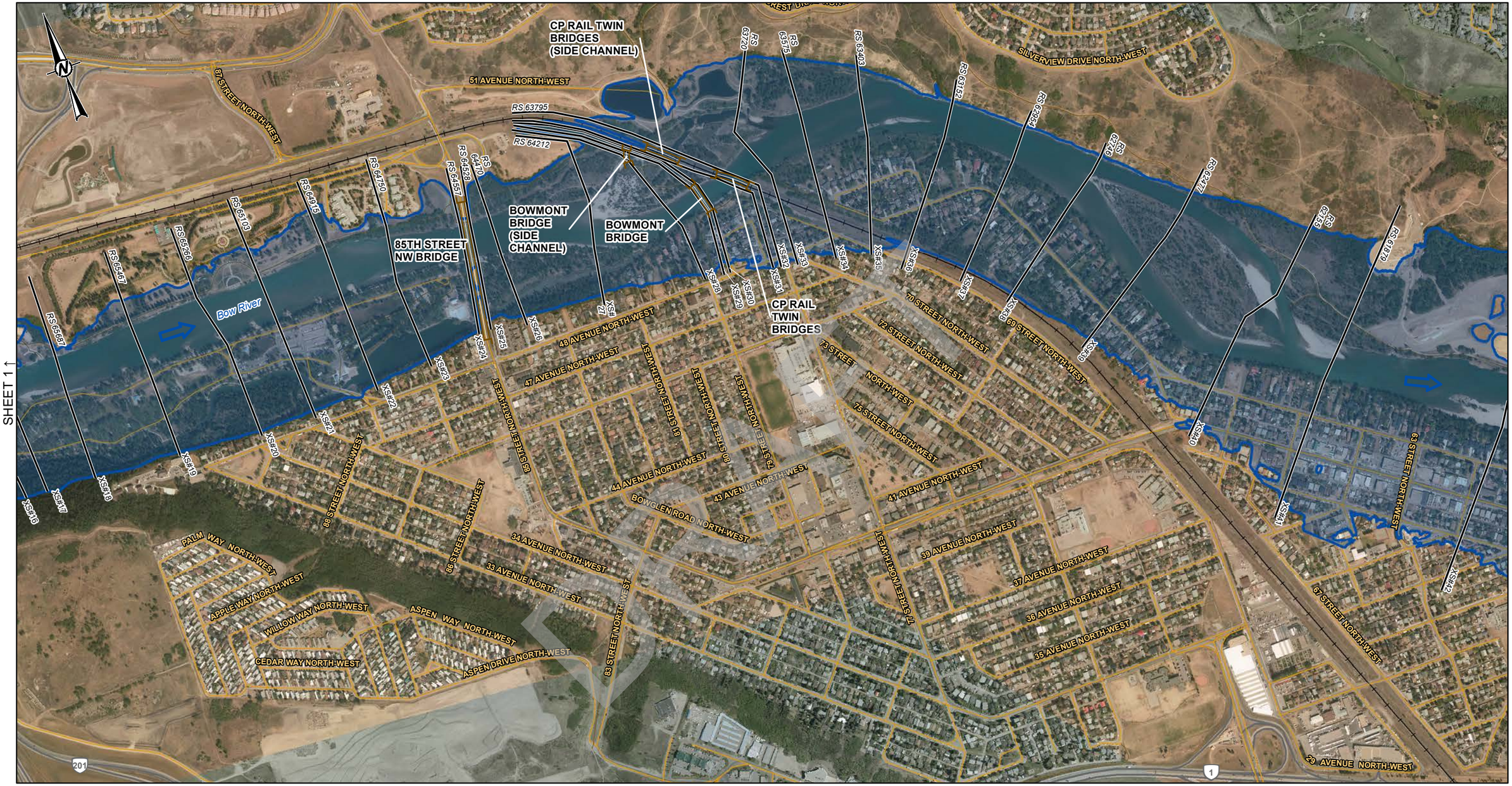
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:37:47 PM

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

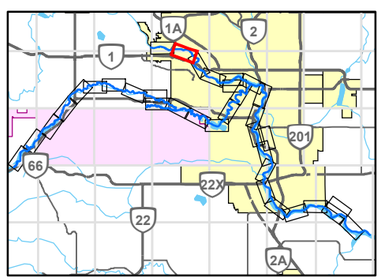
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 075\fy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:39:08 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

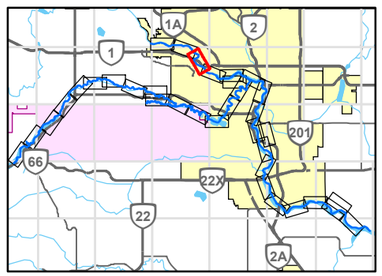
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

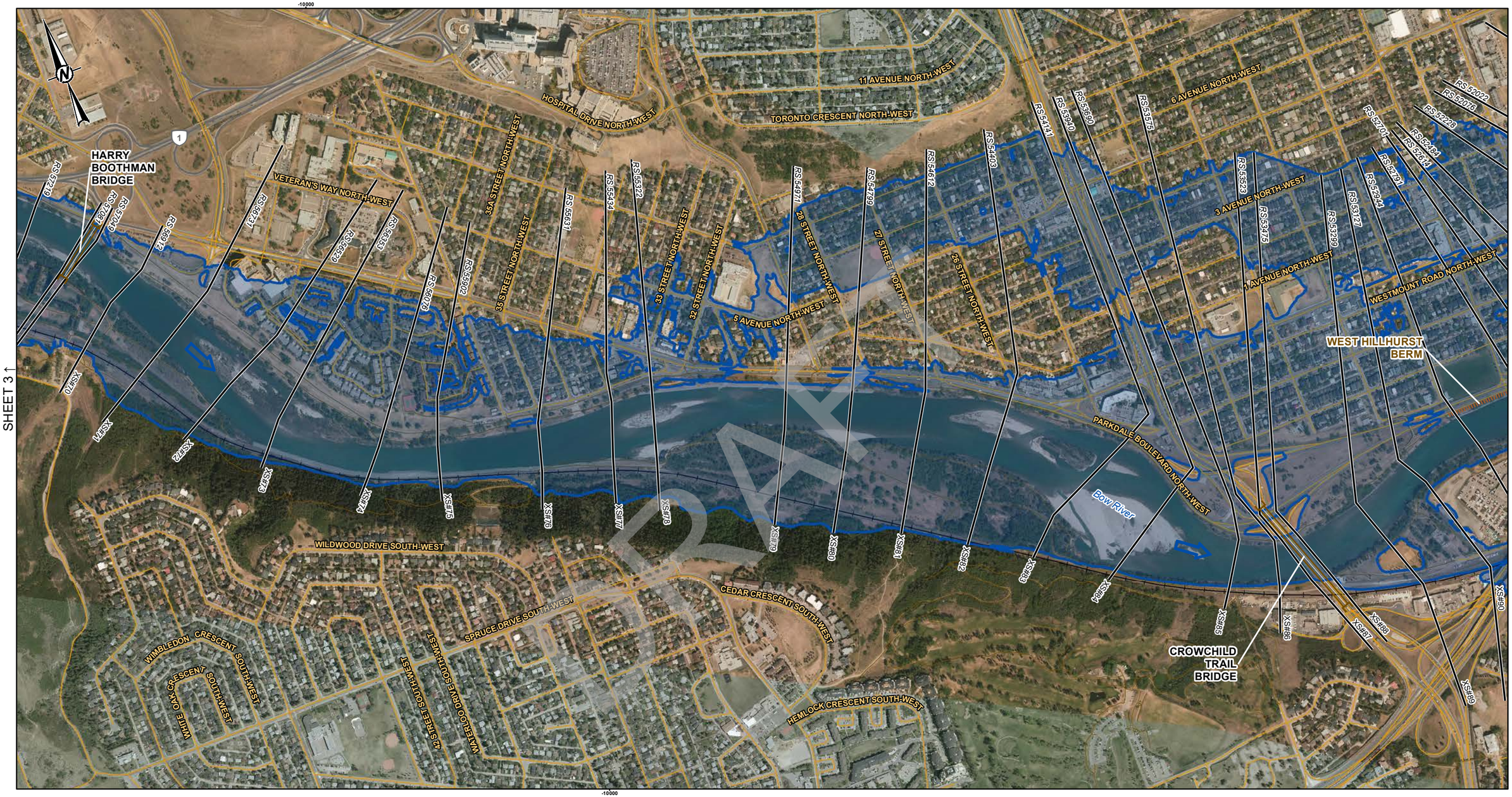
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:40:46 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

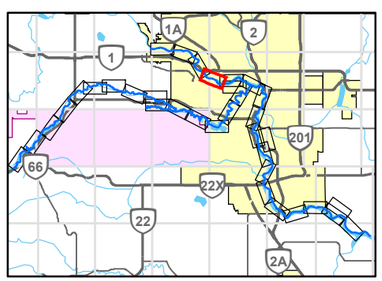
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

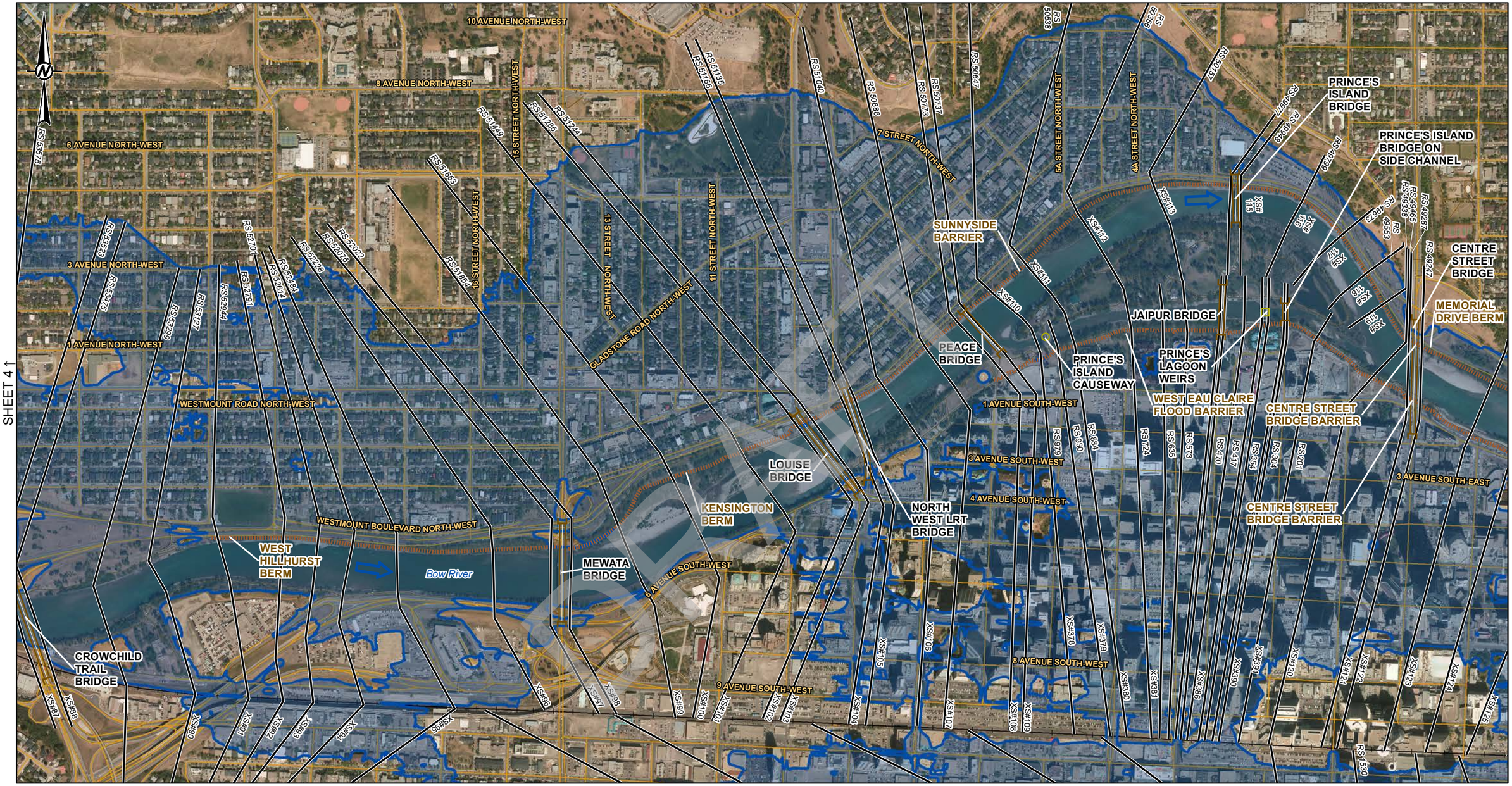
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

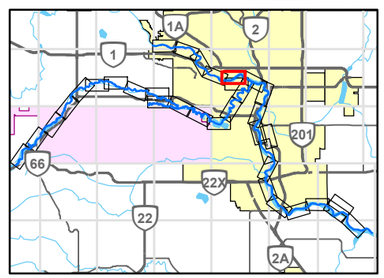
25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:42:27 PM

Classification: Public



SHEET 33 & 34 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

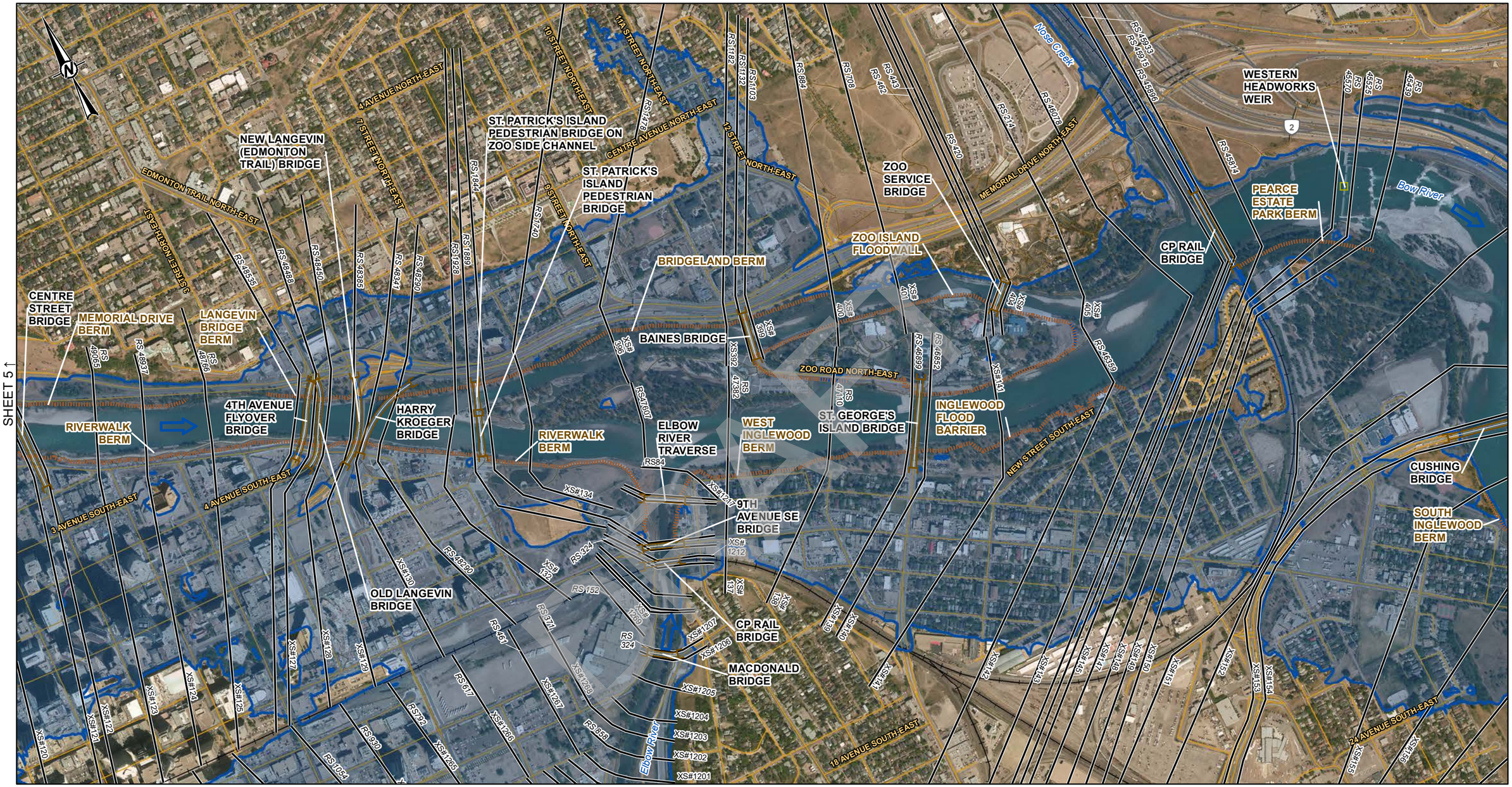
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

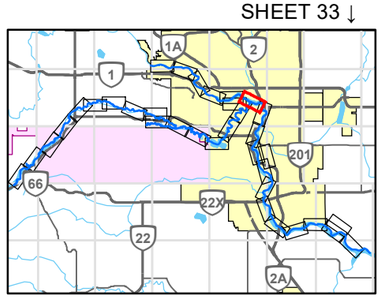
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1930 M^3/S
BOW RIVER BELOW ELBOW RIVER = 4820 M^3/S
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

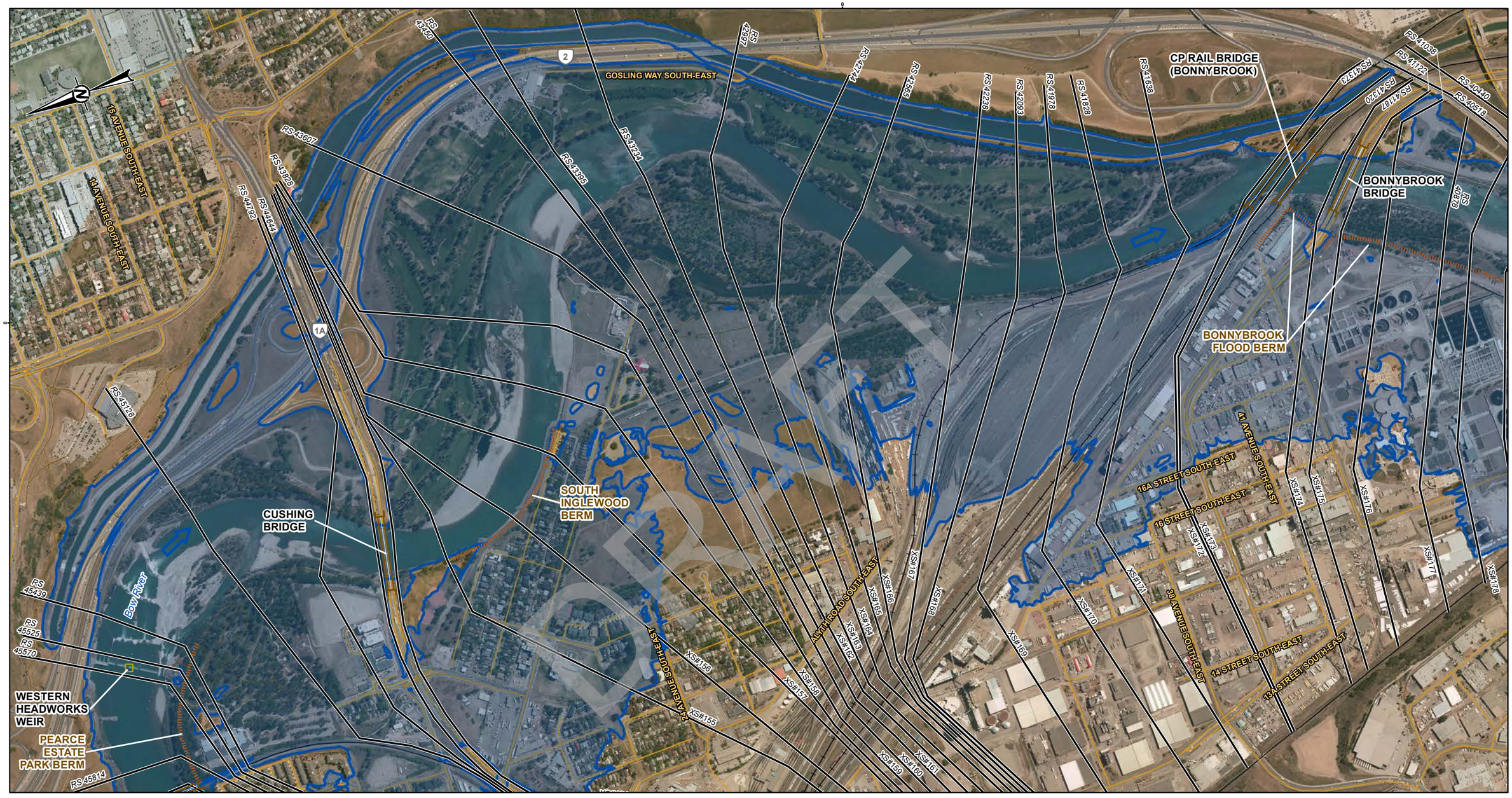
TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07\59y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:45:29 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

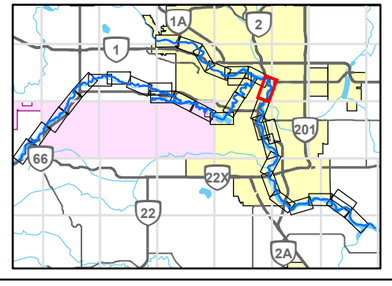
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S

SHEET 5 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07\0y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:47:06 PM

Classification: Public

SHEET 7 ↑

SHEET 9 ↓

5650000

RS 40440
RS 40516
RS 40788
RS 40663
RS 40371
RS 40254
RS 40065
RS 39997
RS 39942
RS 39834
RS 39697
RS 39577
RS 39436
RS 39313
RS 39262
RS 39120
RS 38965
RS 38775
RS 38662
RS 38513
RS 38366
RS 38283
RS 38197
RS 38125
RS 37982
RS 3166
RS 37530
RS 37460
RS 37417
RS 37301
RS 37029
RS 36882
RS 36714
RS 36609

CALF ROBE BRIDGE
CN RAIL BRIDGE
BONNYBROOK FLOOD BERM
HERITAGE DRIVE FLOOD BARRIER
GLENMORE TRAIL BERM
GRAVES BRIDGE (UPSTREAM)
GRAVES BRIDGE (DOWNSTREAM)

18A STREET SOUTH-EAST
17A STREET SOUTH-EAST
59A AVENUE SOUTH-EAST
LYNNVIEW ROAD SOUTH-EAST
13 STREET SOUTH-EAST
12 STREET SOUTH-EAST
12A STREET SOUTH-EAST
10 STREET SOUTH-EAST
HIGHFIELD CRESCENT SOUTH-EAST
RAILWAY STREET SOUTH-EAST
HERITAGE MEADOWS ROAD
HERITAGE MEADOWS WAY SOUTH-EAST

Bow River

560
2
8

XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211

5650000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

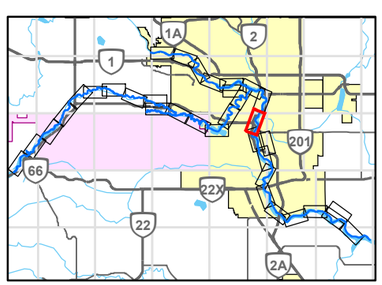
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_ 0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:4 8:30 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↑

SHEET 10 ↓

5650000

5649000

RS 37689
RS 37630
RS 37480
RS 37361
RS 37029
RS 36892
RS 36741
RS 36303
RS 36008
RS 35723
RS 35622
RS 35419
RS 35275
RS 35196
RS 34889
RS 34780
RS 34758
RS 34557

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

RIVEREND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

18 STREET SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

ERIC HARVIE BRIDGE

QUARRY PARK BERM

IVOR STRONG BRIDGE

SOUTH LANDING TRAIL SOUTH-EAST

2

Bow River

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

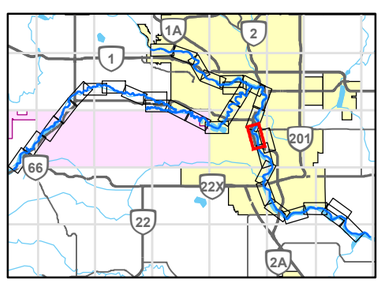
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

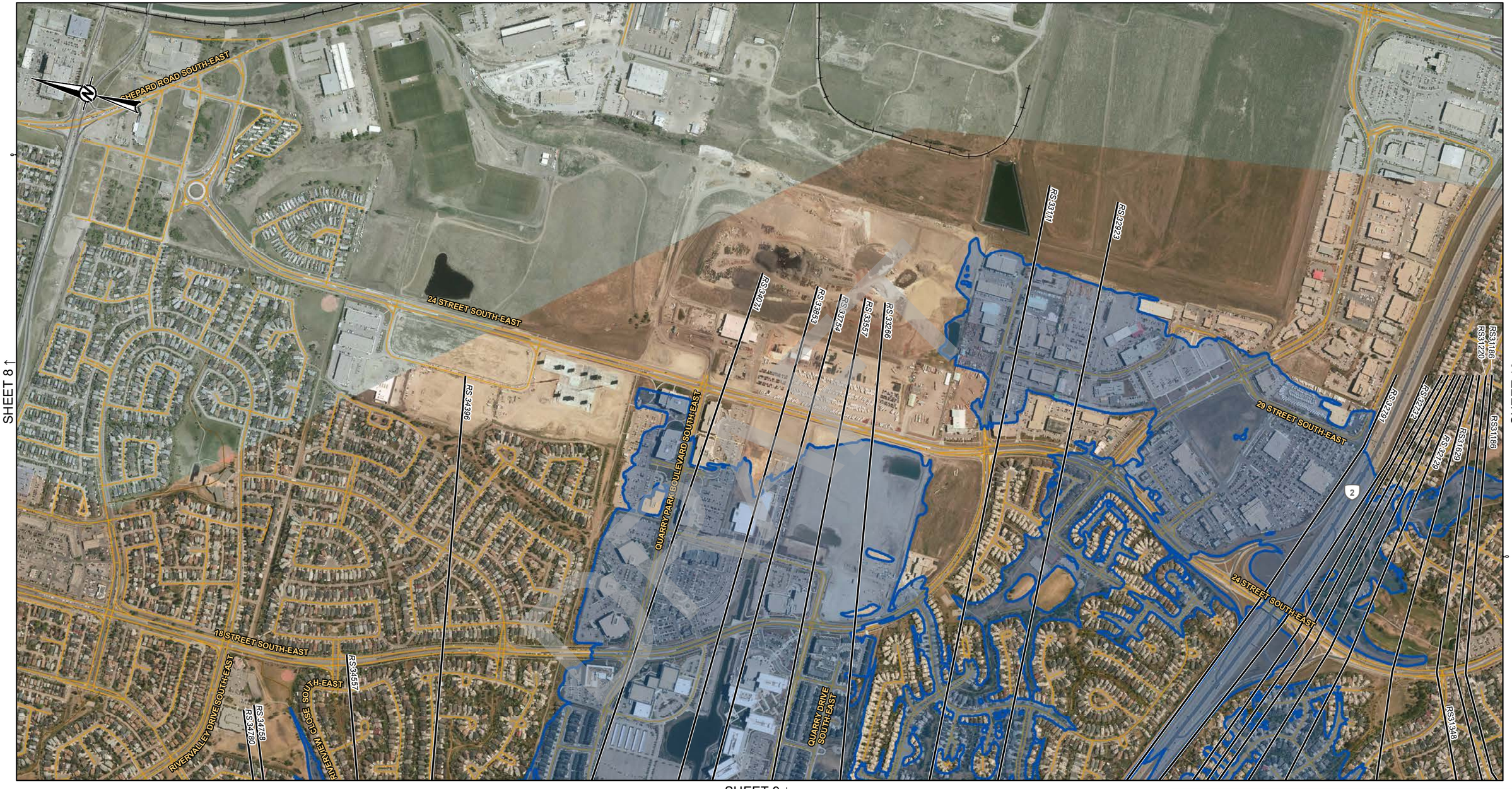
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

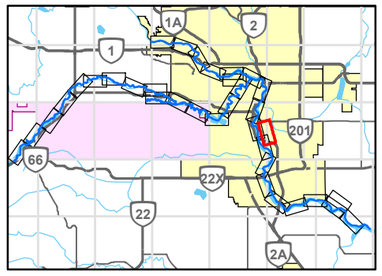
0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:49:52 PM

Classification: Public



SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0759y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:51:09 PM

Classification: Public

SHEET 9 ↑

SHEET 11 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

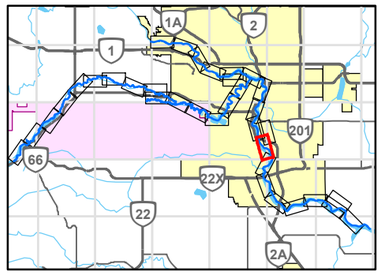
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

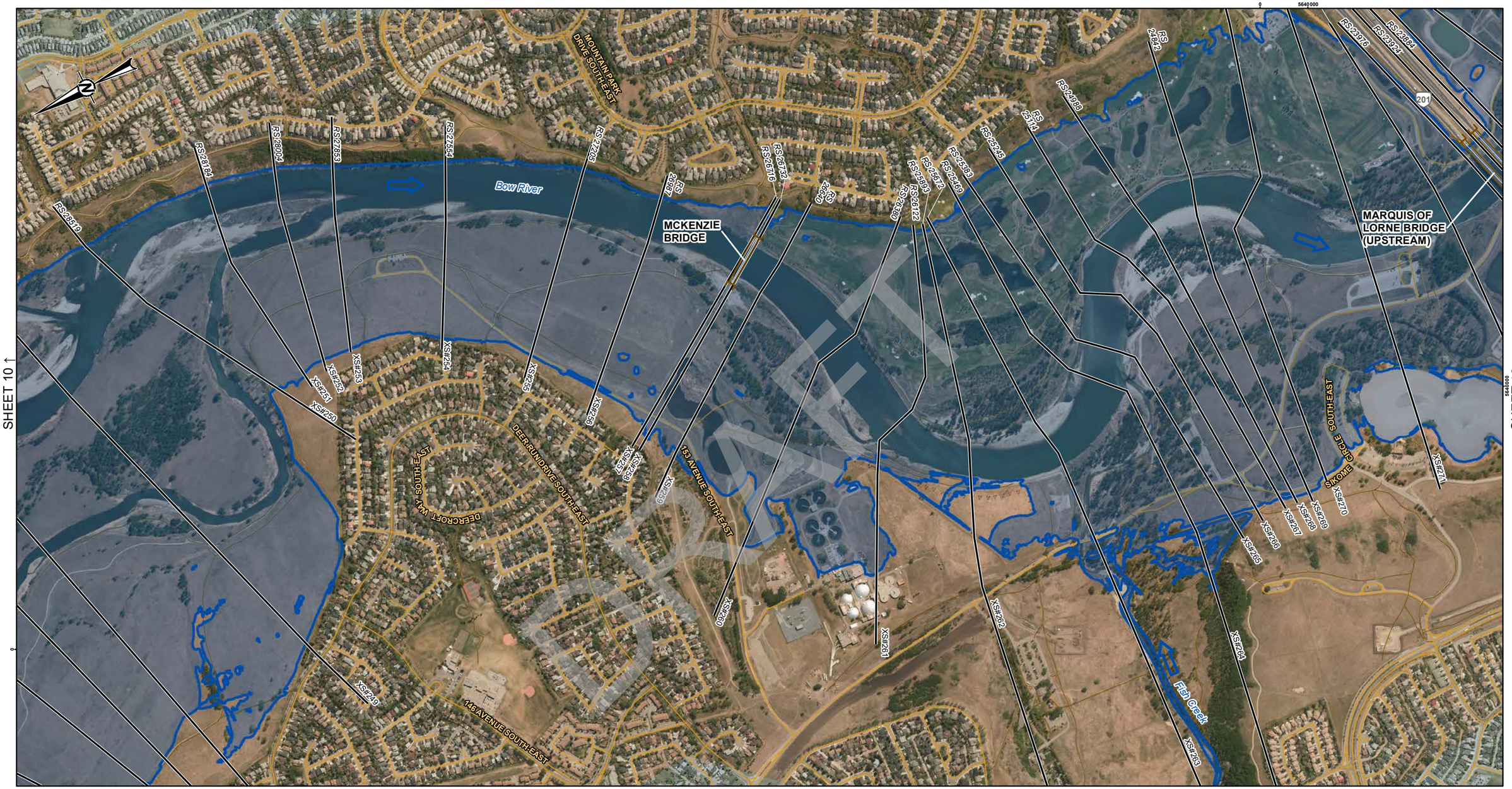
TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:52:18 PM

© THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

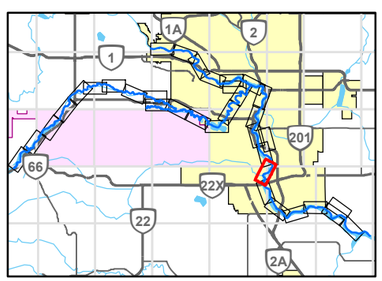
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 4880 M^3/S
BOW RIVER BELOW FISH CREEK = 5480 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:53:32 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

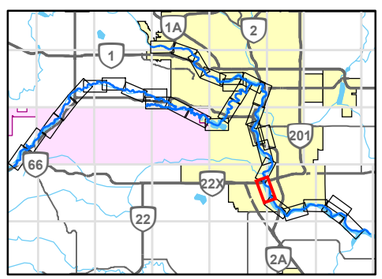
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 5480 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:54:47 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

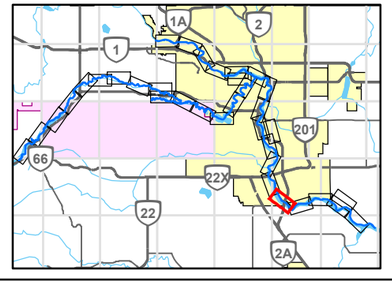
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 5480 M^3/S
BOW RIVER BELOW PINE CREEK = 5560 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

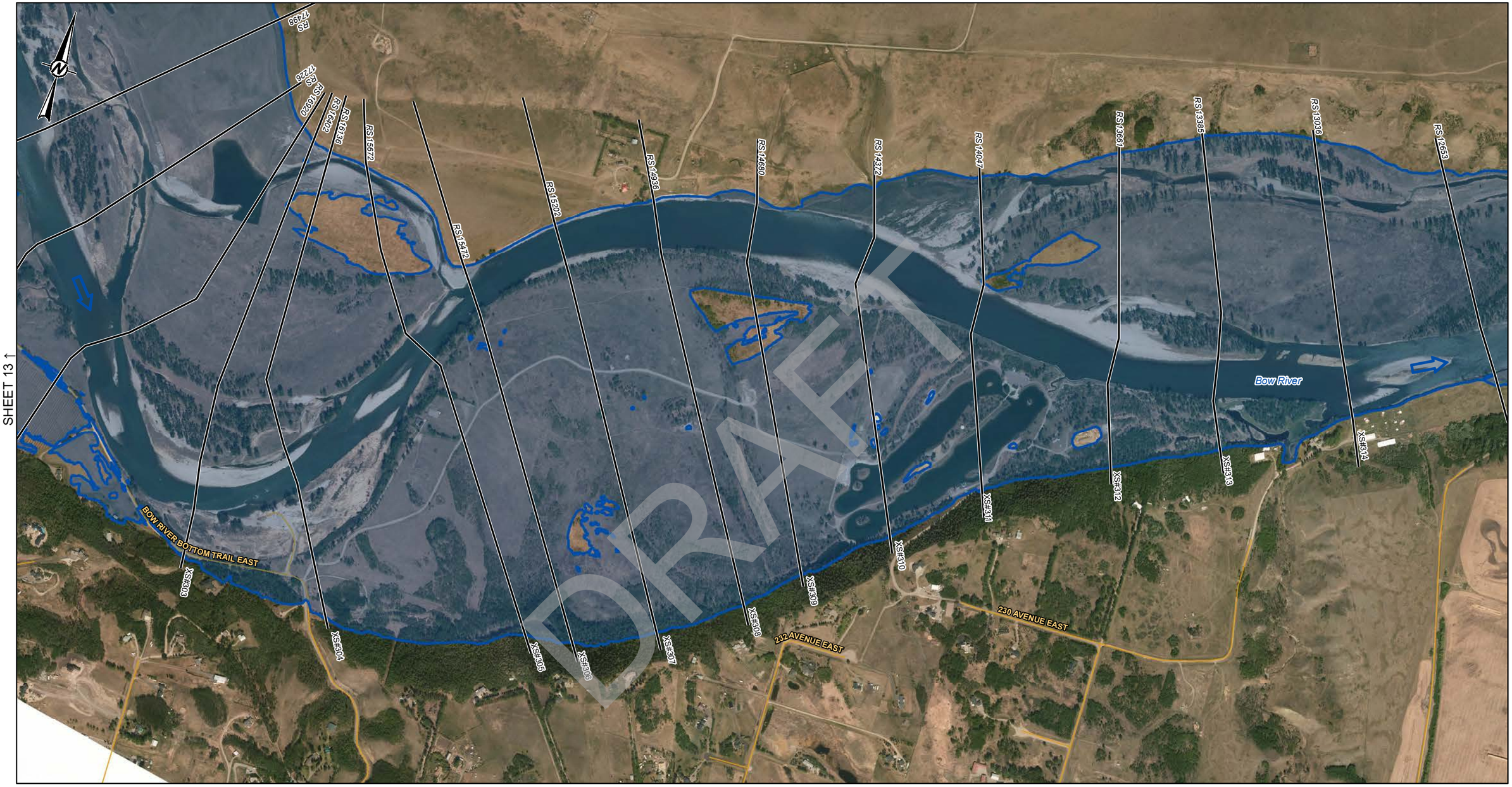
TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0759y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:56:06 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

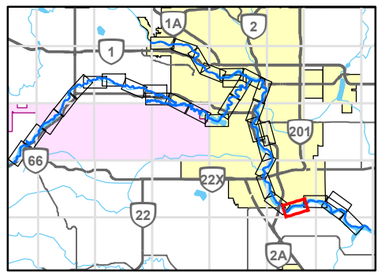
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 5560 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

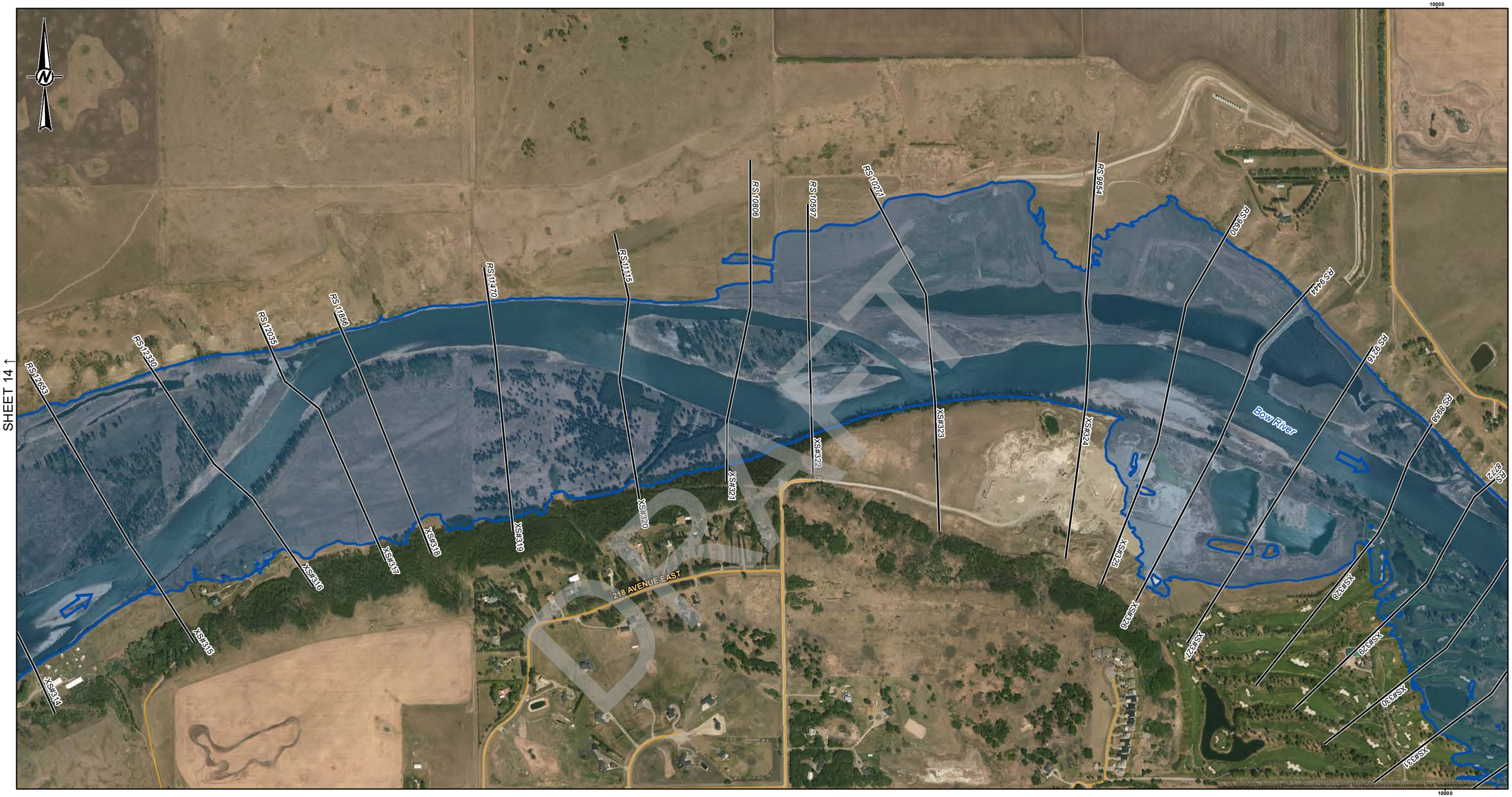
TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:57:18 PM

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

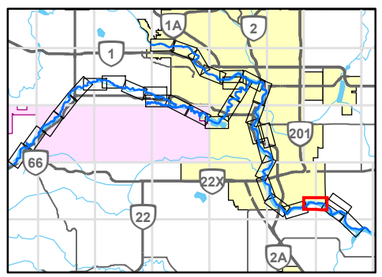
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 5560 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 5630 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

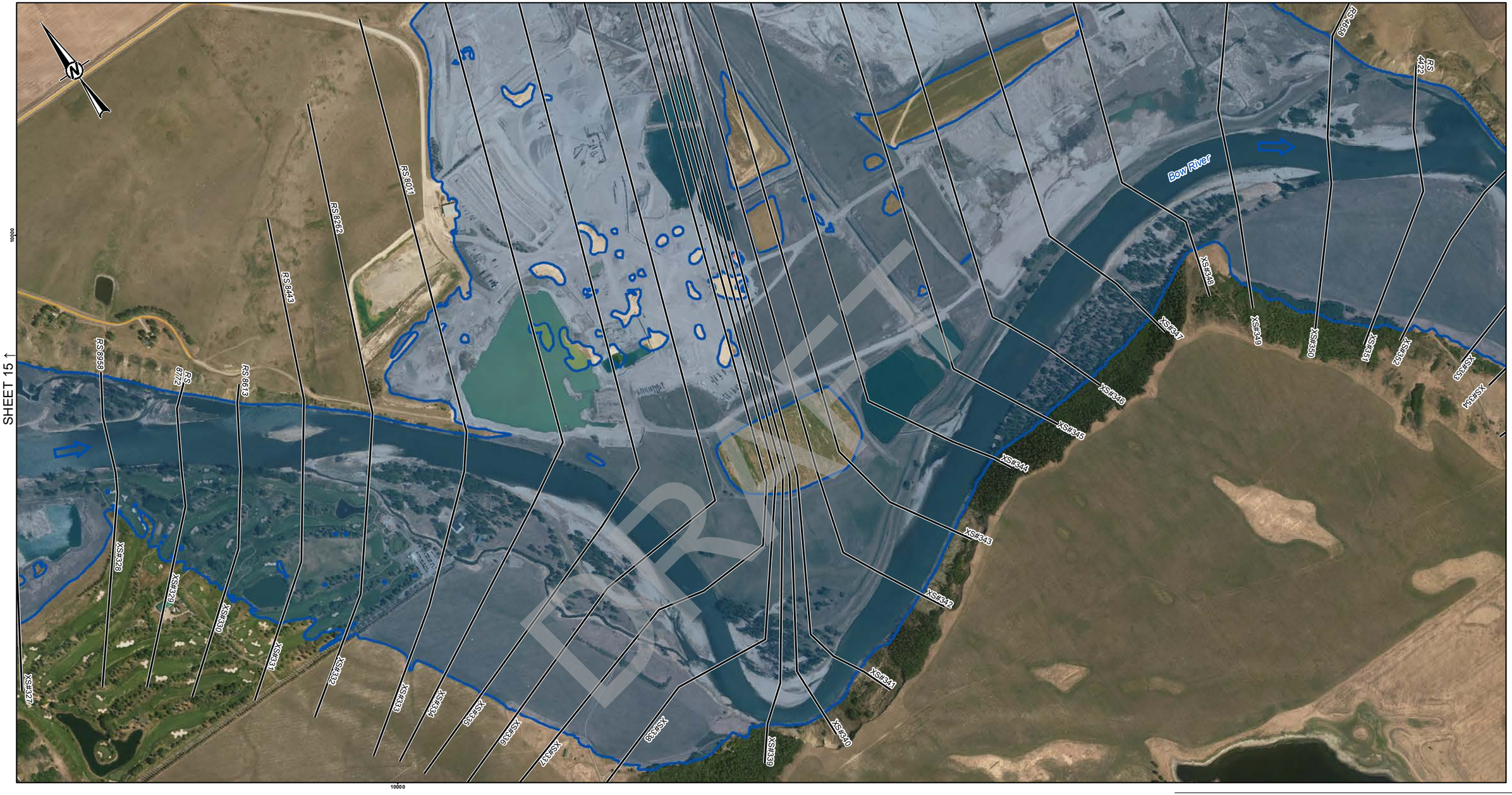
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:58:15 PM

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

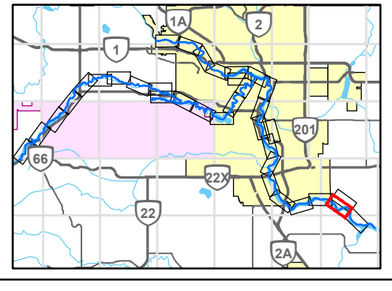
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 5630 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

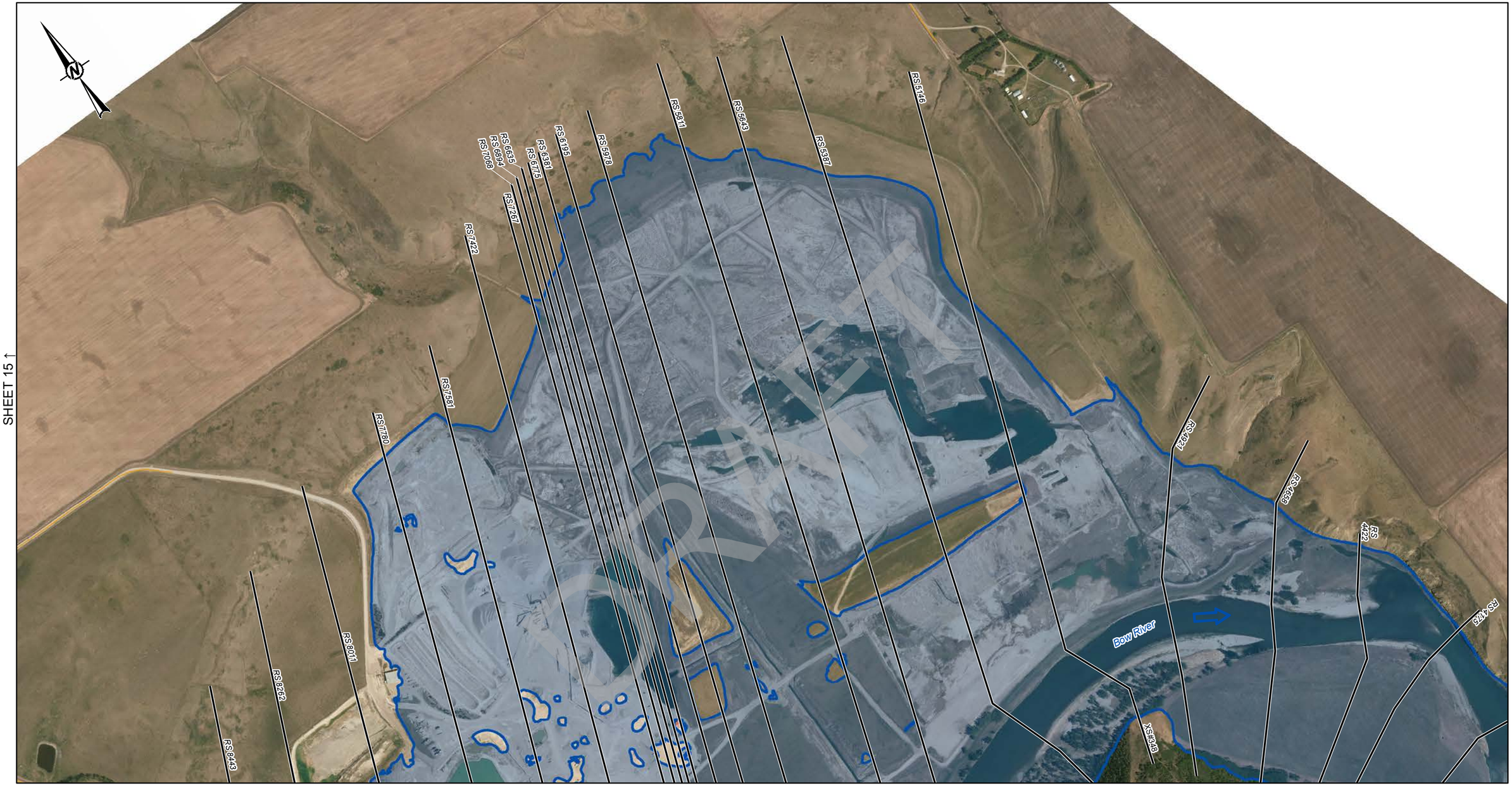
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 3:59:29 PM

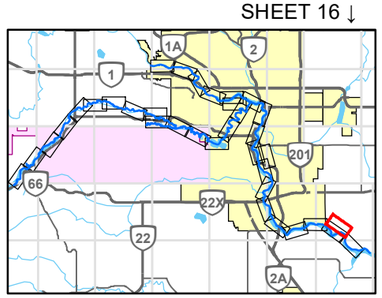
Classification: Public



SHEET 15 ↑

SHEET 18 ↓

SHEET 16 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 5630 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07Sty-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:09:37 PM

Classification: Public

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

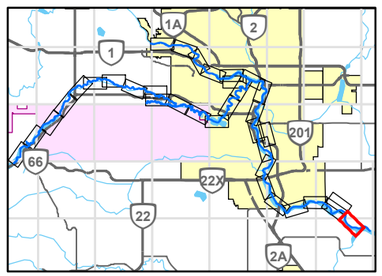
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 5630 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

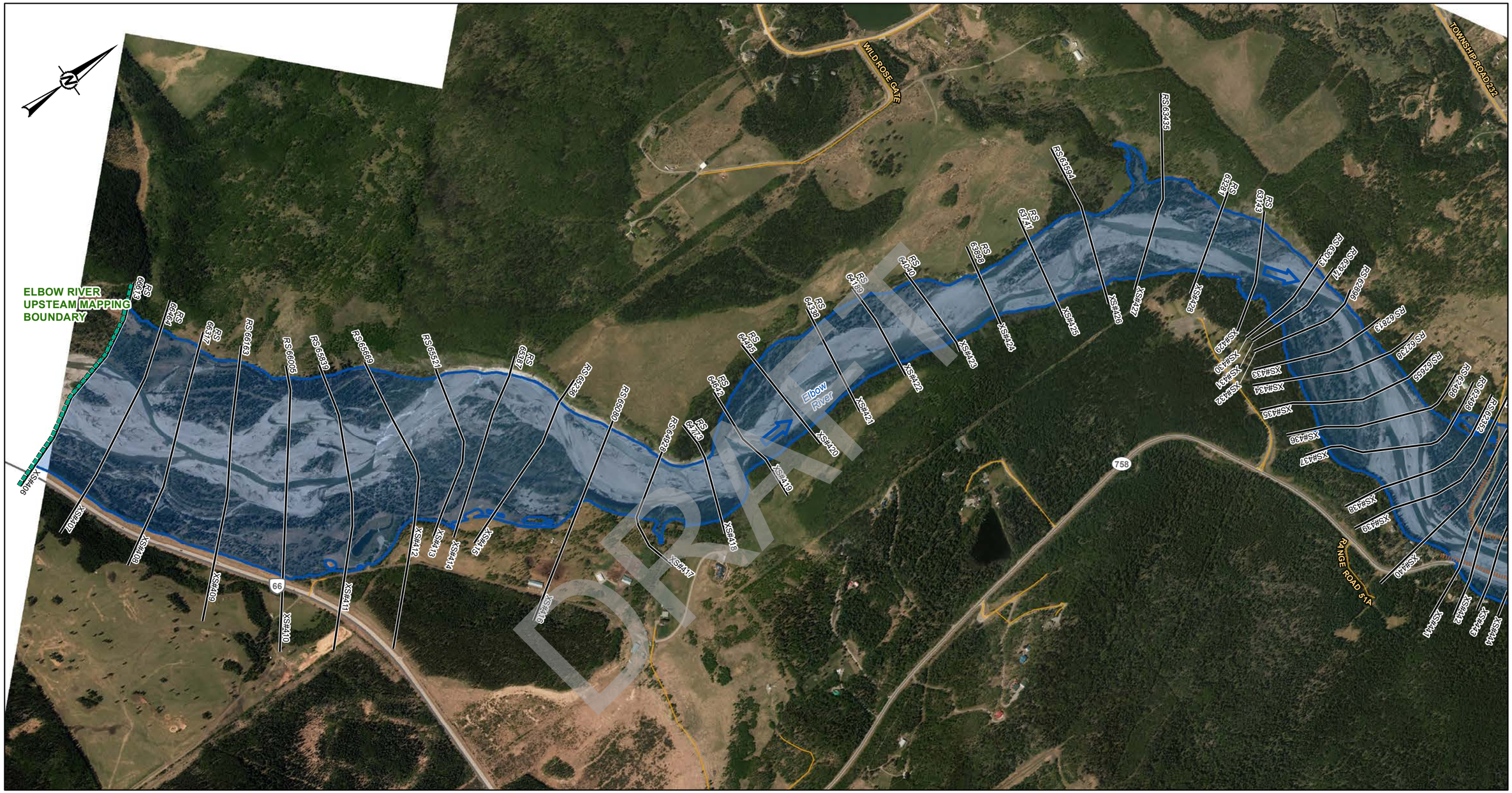
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

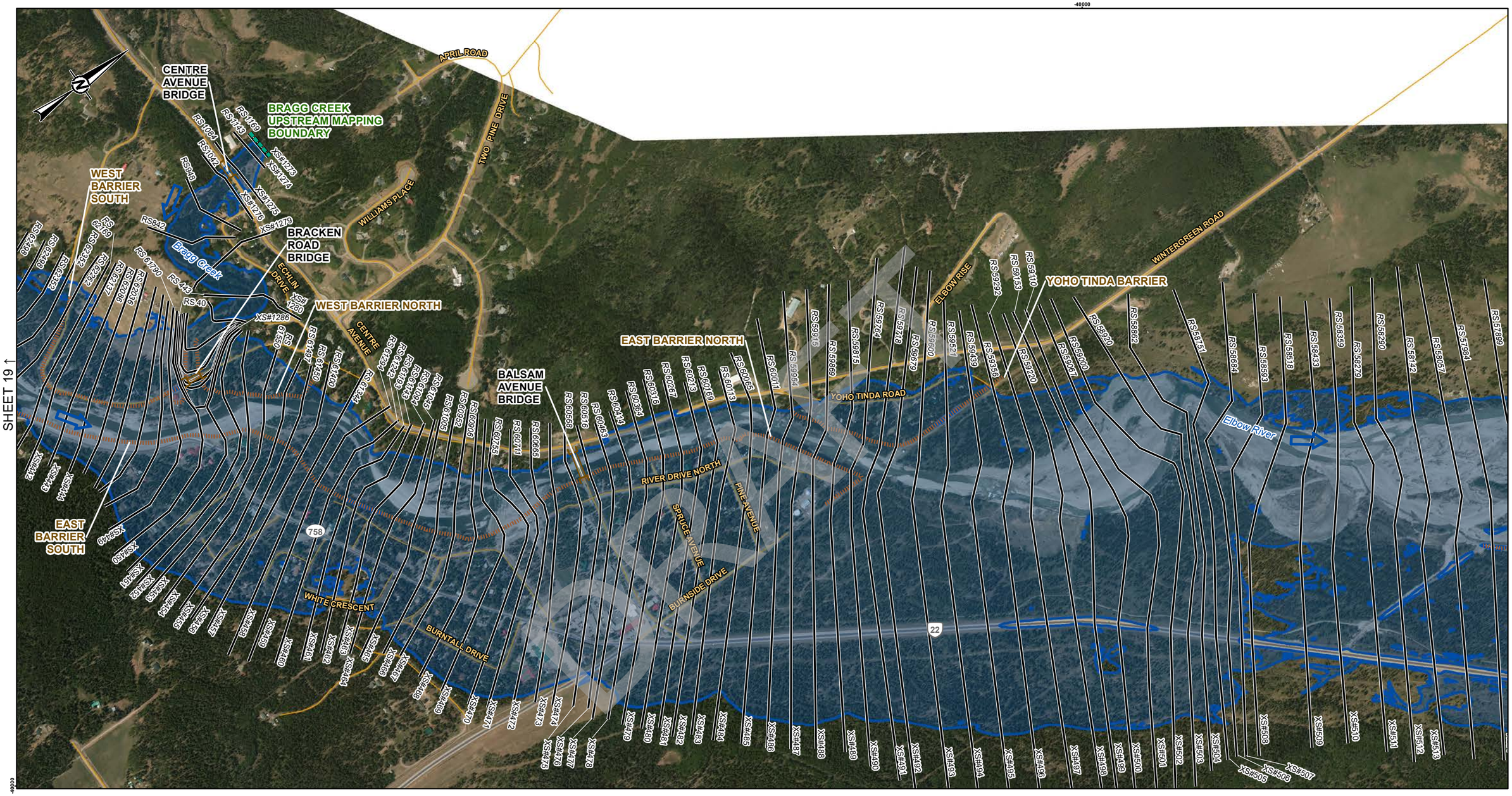
25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4 0 1:46 PM

Classification: Public


ELBOW RIVER
UPSTEAM MAPPING
BOUNDARY
WILD ROSE CAFE
TOWNSHIP ROAD 232
RANGE ROAD 51A
Elbow River
66
758
RS 66316
RS 66174
RS 66117
RS 66063
RS 66005
RS 65939
RS 65869
RS 65821
RS 65697
RS 65578
RS 65508
RS 64978
RS 64713
RS 64672
RS 64496
RS 64438
RS 64179
RS 64040
RS 63939
RS 63741
RS 63394
RS 63264
RS 63087
RS 63019
RS 62971
RS 62938
RS 62879
RS 62736
RS 62655
RS 62408
RS 62369
RS 62329
RS 62289
RS 62249
RS 62209
RS 62169
RS 62129
RS 62089
RS 62049
RS 62009
RS 61969
RS 61929
RS 61889
RS 61849
RS 61809
RS 61769
RS 61729
RS 61689
RS 61649
RS 61609
RS 61569
RS 61529
RS 61489
RS 61449
RS 61409
RS 61369
RS 61329
RS 61289
RS 61249
RS 61209
RS 61169
RS 61129
RS 61089
RS 61049
RS 61009
RS 60969
RS 60929
RS 60889
RS 60849
RS 60809
RS 60769
RS 60729
RS 60689
RS 60649
RS 60609
RS 60569
RS 60529
RS 60489
RS 60449
RS 60409
RS 60369
RS 60329
RS 60289
RS 60249
RS 60209
RS 60169
RS 60129
RS 60089
RS 60049
RS 60009
RS 59969
RS 59929
RS 59889
RS 59849
RS 59809
RS 59769
RS 59729
RS 59689
RS 59649
RS 59609
RS 59569
RS 59529
RS 59489
RS 59449
RS 59409
RS 59369
RS 59329
RS 59289
RS 59249
RS 59209
RS 59169
RS 59129
RS 59089
RS 59049
RS 59009
RS 58969
RS 58929
RS 58889
RS 58849
RS 58809
RS 58769
RS 58729
RS 58689
RS 58649
RS 58609
RS 58569
RS 58529
RS 58489
RS 58449
RS 58409
RS 58369
RS 58329
RS 58289
RS 58249
RS 58209
RS 58169
RS 58129
RS 58089
RS 58049
RS 58009
RS 57969
RS 57929
RS 57889
RS 57849
RS 57809
RS 57769
RS 57729
RS 57689
RS 57649
RS 57609
RS 57569
RS 57529
RS 57489
RS 57449
RS 57409
RS 57369
RS 57329
RS 57289
RS 57249
RS 57209
RS 57169
RS 57129
RS 57089
RS 57049
RS 57009
RS 56969
RS 56929
RS 56889
RS 56849
RS 56809
RS 56769
RS 56729
RS 56689
RS 56649
RS 56609
RS 56569
RS 56529
RS 56489
RS 56449
RS 56409
RS 56369
RS 56329
RS 56289
RS 56249
RS 56209
RS 56169
RS 56129
RS 56089
RS 56049
RS 56009
RS 55969
RS 55929
RS 55889
RS 55849
RS 55809
RS 55769
RS 55729
RS 55689
RS 55649
RS 55609
RS 55569
RS 55529
RS 55489
RS 55449
RS 55409
RS 55369
RS 55329
RS 55289
RS 55249
RS 55209
RS 55169
RS 55129
RS 55089
RS 55049
RS 55009
RS 54969
RS 54929
RS 54889
RS 54849
RS 54809
RS 54769
RS 54729
RS 54689
RS 54649
RS 54609
RS 54569
RS 54529
RS 54489
RS 54449
RS 54409
RS 54369
RS 54329
RS 54289
RS 54249
RS 54209
RS 54169
RS 54129
RS 54089
RS 54049
RS 54009
RS 53969
RS 53929
RS 53889
RS 53849
RS 53809
RS 53769
RS 53729
RS 53689
RS 53649
RS 53609
RS 53569
RS 53529
RS 53489
RS 53449
RS 53409
RS 53369
RS 53329
RS 53289
RS 53249
RS 53209
RS 53169
RS 53129
RS 53089
RS 53049
RS 53009
RS 52969
RS 52929
RS 52889
RS 52849
RS 52809
RS 52769
RS 52729
RS 52689
RS 52649
RS 52609
RS 52569
RS 52529
RS 52489
RS 52449
RS 52409
RS 52369
RS 52329
RS 52289
RS 52249
RS 52209
RS 52169
RS 52129
RS 52089
RS 52049
RS 52009
RS 51969
RS 51929
RS 51889
RS 51849
RS 51809
RS 51769
RS 51729
RS 51689
RS 51649
RS 51609
RS 51569
RS 51529
RS 51489
RS 51449
RS 51409
RS 51369
RS 51329
RS 51289
RS 51249
RS 51209
RS 51169
RS 51129
RS 51089
RS 51049
RS 51009
RS 50969
RS 50929
RS 50889
RS 50849
RS 50809
RS 50769
RS 50729
RS 50689
RS 50649
RS 50609
RS 50569
RS 50529
RS 50489
RS 50449
RS 50409
RS 50369
RS 50329
RS 50289
RS 50249
RS 50209
RS 50169
RS 50129
RS 50089
RS 50049
RS 50009
RS 49969
RS 49929
RS 49889
RS 49849
RS 49809
RS 49769
RS 49729
RS 49689
RS 49649
RS 49609
RS 49569
RS 49529
RS 49489
RS 49449
RS 49409
RS 49369
RS 49329
RS 49289
RS 49249
RS 49209
RS 49169
RS 49129
RS 49089
RS 49049
RS 49009
RS 48969
RS 48929
RS 48889
RS 48849
RS 48809
RS 48769
RS 48729
RS 48689
RS 48649
RS 48609
RS 48569
RS 48529
RS 48489
RS 48449
RS 48409
RS 48369
RS 48329
RS 48289
RS 48249
RS 48209
RS 48169
RS 48129
RS 48089
RS 48049
RS 48009
RS 47969
RS 47929
RS 47889
RS 47849
RS 47809
RS 47769
RS 47729
RS 47689
RS 47649
RS 47609
RS 47569
RS 47529
RS 47489
RS 47449
RS 47409
RS 47369
RS 47329
RS 47289
RS 47249
RS 47209
RS 47169
RS 47129
RS 47089
RS 47049
RS 47009
RS 46969
RS 46929
RS 46889
RS 46849
RS 46809
RS 46769
RS 46729
RS 46689
RS 46649
RS 46609
RS 46569
RS 46529
RS 46489
RS 46449
RS 46409
RS 46369
RS 46329
RS 46289
RS 46249
RS 46209
RS 46169
RS 46129
RS 46089
RS 46049
RS 46009
RS 45969
RS 45929
RS 45889
RS 45849
RS 45809
RS 45769
RS 45729
RS 45689
RS 45649
RS 45609
RS 45569
RS 45529
RS 45489
RS 45449
RS 45409
RS 45369
RS 45329
RS 45289
RS 45249
RS 45209
RS 45169
RS 45129
RS 45089
RS 45049
RS 45009
RS 44969
RS 44929
RS 44889
RS 44849
RS 44809
RS 44769
RS 44729
RS 44689
RS 44649
RS 44609
RS 44569
RS 44529
RS 44489
RS 44449
RS 44409
RS 44369
RS 44329
RS 44289
RS 44249
RS 44209
RS 44169
RS 44129
RS 44089
RS 44049
RS 44009
RS 43969
RS 43929
RS 43889
RS 43849
RS 43809
RS 43769
RS 43729
RS 43689
RS 43649
RS 43609
RS 43569
RS 43529
RS 43489
RS 43449
RS 43409
RS 43369
RS 43329
RS 43289
RS 43249
RS 43209
RS 43169
RS 43129
RS 43089
RS 43049
RS 43009
RS 42969
RS 42929
RS 42889
RS 42849
RS 42809
RS 42769
RS 42729
RS 42689
RS 42649
RS 42609
RS 42569
RS 42529
RS 42489
RS 42449
RS 42409
RS 42369
RS 42329
RS 42289
RS 42249
RS 42209
RS 42169
RS 42129
RS 42089
RS 42049
RS 42009
RS 41969
RS 41929
RS 41889
RS 41849
RS 41809
RS 41769
RS 41729
RS 41689
RS 41649
RS 41609
RS 41569
RS 41529
RS 41489
RS 41449
RS 41409
RS 41369
RS 41329
RS 41289
RS 41249
RS 41209
RS 41169
RS 41129
RS 41089
RS 41049
RS 41009
RS 40969
RS 40929
RS 40889
RS 40849
RS 40809
RS 40769
RS 40729
RS 40689
RS 40649
RS 40609
RS 40569
RS 40529
RS 40489
RS 40449
RS 40409
RS 40369
RS 40329
RS 40289
RS 40249
RS 40209
RS 40169
RS 40129
RS 40089
RS 40049
RS 40009
RS 39969
RS 39929
RS 39889
RS 39849
RS 39809
RS 39769
RS 39729
RS 39689
RS 39649
RS 39609
RS 39569
RS 39529
RS 39489
RS 39449
RS 39409
RS 39369
RS 39329
RS 39289
RS 39249
RS 39209
RS 39169
RS 39129
RS 39089
RS 39049
RS 39009
RS 38969
RS 38929
RS 38889
RS 38849
RS 38809
RS 38769
RS 38729
RS 38689
RS 38649
RS 38609
RS 38569
RS 38529
RS 38489
RS 38449
RS 38409
RS 38369
RS 38329
RS 38289
RS 38249
RS 38209
RS 38169
RS 38129
RS 38089
RS 38049
RS 38009
RS 37969
RS 37929
RS 37889
RS 37849
RS 37809
RS 37769
RS 37729
RS 37689
RS 37649
RS 37609
RS 37569
RS 37529
RS 37489
RS 37449
RS 37409
RS 37369
RS 37329
RS 37289
RS 37249
RS 37209
RS 37169
RS 37129
RS 37089
RS 37049
RS 37009
RS 36969
RS 36929
RS 36889
RS 36849
RS 36809
RS 36769
RS 36729
RS 36689
RS 36649
RS 36609
RS 36569
RS 36529
RS 36489
RS 36449
RS 36409
RS 36369
RS 36329
RS 36289
RS 36249
RS 36209
RS 36169
RS 36129
RS 36089
RS 36049
RS 36009
RS 35969
RS 35929
RS 35889
RS 35849
RS 35809
RS 35769
RS 35729
RS 35689
RS 35649
RS 35609
RS 35569
RS 35529
RS 35489
RS 35449
RS 35409
RS 35369
RS 35329
RS 35289
RS 35249
RS 35209
RS 35169
RS 35129
RS 35089
RS 35049
RS 35009
RS 34969
RS 34929
RS 34889
RS 34849
RS 34809
RS 34769
RS 34729
RS 34689
RS 34649
RS 34609
RS 34569
RS 34529
RS 34489
RS 34449
RS 34409
RS 34369
RS 34329
RS 34289
RS 34249
RS 34209
RS 34169
RS 34129
RS 34089
RS 34049
RS 34009
RS 33969
RS 33929
RS 33889
RS 33849
RS 33809
RS 33769
RS 33729
RS 33689
RS 33649
RS 33609
RS 33569
RS 33529
RS 33489
RS 33449
RS 33409
RS 33369
RS 33329
RS 33289
RS 33249
RS 33209
RS 33169
RS 33129
RS 33089
RS 33049
RS 33009
RS 32969
RS 32929
RS 32889
RS 32849
RS 32809
RS 32769
RS 32729
RS 32689
RS 32649
RS 32609
RS 32569
RS 32529
RS 32489
RS 32449
RS 32409
RS 32369
RS 32329
RS 32289
RS 32249
RS 32209
RS 32169
RS 32129
RS 32089
RS 32049
RS 32009
RS 31969
RS 31929
RS 31889
RS 31849
RS 31809
RS 31769
RS 31729
RS 31689
RS 31649
RS 31609
RS 31569
RS 31529
RS 31489
RS 31449
RS 31409
RS 31369
RS 31329
RS 31289
RS 31249
RS 31209
RS 31169
RS 31129
RS 31089
RS 31049
RS 31009
RS 30969
RS 30929
RS 30889
RS 30849
RS 30809
RS 30769
RS 30729
RS 30689
RS 30649
RS 30609
RS 30569
RS 30529
RS 30489
RS 30449
RS 30409
RS 30369
RS 30329
RS 30289
RS 30249
RS 30209
RS 30169
RS 30129
RS 30089
RS 30049
RS 30009
RS 29969
RS 29929
RS 29889
RS 29849
RS 29809
RS 29769
RS 29729
RS 29689
RS 29649
RS 29609
RS 29569
RS 29529
RS 29489
RS 29449
RS 29409
RS 29369
RS 29329
RS 29289
RS 29249
RS 29209
RS 29169
RS 29129
RS 29089
RS 29049
RS 29009
RS 28969
RS 28929
RS 28889
RS 28849
RS 28809
RS 28769
RS 28729
RS 28689
RS 28649
RS 28609
RS 28569
RS 28529
RS 28489
RS 28449
RS 28409
RS 28369
RS 28329
RS 28289
RS 28249
RS 28209
RS 28169
RS 28129
RS 28089
RS 28049
RS 28009
RS 27969
RS 27929
RS 27889
RS 27849
RS 27809
RS 27769
RS 27729
RS 27689
RS 27649
RS 27609
RS 27569
RS 27529
RS 27489
RS 27449
RS 27409
RS 27369
RS 27329
RS 27289
RS 27249
RS 27209
RS 27169
RS 27129
RS 27089
RS 27049
RS 27009
RS 26969
RS 26929
RS 26889
RS 26849
RS 26809
RS 26769
RS 26729
RS 26689
RS 26649
RS 26609
RS 26569
RS 26529
RS 26489
RS 26449
RS 26409
RS 26369
RS 26329
RS 26289
RS 26249
RS 26209
RS 26169
RS 26129
RS 26089
RS 26049
RS 26009
RS 25969
RS 25929
RS 25889
RS 25849
RS 25809
RS 25769
RS 25729
RS 25689
RS 25649
RS 25609
RS 25569
RS 25529
RS 25489
RS 25449
RS 25409
RS 25369
RS 25329
RS 25289
RS 25249
RS 25209
RS 25169
RS 25129
RS 25089
RS 25049
RS 25009
RS 24969
RS 24929
RS 24889
RS 24849
RS 24809
RS 24769
RS 24729
RS 24689
RS 24649
RS 24609
RS 24569
RS 24529
RS 24489
RS 24449
RS 24409
RS 24369
RS 24329
RS 24289
RS 24249
RS 24209
RS 24169
RS 24129
RS 24089
RS 24049
RS 24009
RS 23969
RS 23929
RS 23889
RS 23849
RS 23809
RS 23769
RS 23729
RS 23689
RS 23649
RS 23609
RS 23569
RS 23529
RS 23489
RS 23449
RS 23409
RS 23369
RS 23329
RS 23289
RS 23249
RS 23209
RS 23169
RS 23129
RS 23089
RS 23049
RS 23009
RS 22969
RS 22929
RS 22889
RS 22849
RS 22809
RS 22769
RS 22729
RS 22689
RS 22649
RS 22609
RS 22569
RS 22529
RS 22489
RS 22449
RS 22409
RS 22369
RS 22329
RS 22289
RS 22249
RS 22209
RS 22169
RS 22129
RS 22089
RS 22049
RS 22009
RS 21969
RS 21929
RS 21889
RS 21849
RS 21809
RS 21769
RS 21729
RS 21689
RS 21649
RS 21609
RS 21569
RS 21529
RS 21489
RS 21449
RS 21409
RS 21369
RS 21329
RS 21289
RS 21249
RS 21209
RS 21169
RS 21129
RS 21089
RS 21049
RS 21009
RS 20969
RS 20929
RS 20889
RS 20849
RS 20809
RS 20769
RS 20729
RS 20689
RS 20649
RS 20609
RS 20569
RS 20529
RS 20489
RS 20449
RS 20409
RS 20369
RS 20329
RS 20289
RS 20249
RS 20209
RS 20169
RS 20129
RS 20089
RS 20049
RS 20009
RS 19969
RS 19929
RS 19889
RS 19849
RS 19809
RS 19769
RS 19729
RS 19689
RS 19649
RS 19609
RS 19569
RS 19529
RS 19489
RS 19449
RS 19409
RS 19369
RS 19329
RS 19289
RS 19249
RS 19209
RS 19169
RS 19129
RS 19089
RS 19049
RS 19009
RS 18969
RS 18929
RS 18889
RS 18849
RS 18809
RS 18769
RS 18729
RS 18689
RS 18649
RS 18609
RS 18569
RS 18529
RS 18489
RS 18449
RS 18409
RS 18369
RS 18329
RS 18289
RS 18249
RS 18209
RS 18169
RS 18129
RS 18089
RS 18049
RS 18009
RS 17969
RS 17929
RS 17889
RS 17849
RS 17809
RS 17769
RS 17729
RS 17689
RS 17649
RS 17609
RS 17569
RS 17529
RS 17489
RS 17449
RS 17409
RS 17369
RS 17329
RS 17289
RS 17249
RS 17209
RS 17169
RS 17129
RS 17089
RS 17049
RS 17009
RS 16969
RS 16929
RS 16889
RS 16849
RS 16809
RS 16769
RS 16729
RS 16689
RS 16649
RS 16609
RS 16569
RS 16529
RS 16489
RS 16449
RS 16409
RS 16369
RS 16329
RS 16289
RS 16249
RS 16209
RS 16169
RS 16129
RS 16089
RS 16049
RS 16009
RS 15969
RS 15929
RS 15889
RS 15849
RS 15809
RS 15769
RS 15729
RS 15689
RS 15649
RS 15609
RS 15569
RS 15529
RS 15489
RS 15449
RS 15409
RS 15369
RS 15329
RS 15289
RS 15249
RS 15209
RS 15169
RS 15129
RS 15089
RS 15049
RS 15009
RS 14969
RS 14929
RS 14889
RS 14849
RS 14809
RS 14769
RS 14729
RS 14689
RS 14649
RS 14609
RS 14569
RS 14529
RS 14489
RS 14449
RS 14409
RS 14369
RS 14329
RS 14289
RS 14249
RS 14209
RS 14169
RS 14129
RS 14089
RS 14049
RS 14009
RS 13969
RS 13929
RS 13889
RS 13849
RS 13809
RS 13769
RS 13729
RS 13689
RS 13649
RS 13609
RS 13569
RS 13529
RS 13489
RS 13449
RS 13409
RS 13369
RS 13329
RS 13289
RS 13249
RS 13209
RS 13169
RS 13129
RS 13089
RS 13049
RS 13009
RS 12969
RS 12929
RS 12889
RS 12849
RS 12809
RS 12769
RS 12729
RS 12689
RS 12649
RS 12609
RS 12569
RS 12529
RS 12489
RS 12449
RS 12409
RS 12369
RS 12329
RS 12289
RS 12249
RS 12209
RS 12169
RS 12129
RS 12089
RS 12049
RS 12009
RS 11969
RS 11929
RS 11889
RS 11849
RS 11809
RS 11769
RS 11729
RS 11689
RS 11649
RS 11609
RS 11569
RS 11529
RS 11489
RS 11449
RS 11409
RS 11369
RS 11329
RS 11289
RS 11249
RS 11209
RS 11169
RS 11129
RS 11089
RS 11049
RS 11009
RS 10969
RS 10929
RS 10889
RS 10849
RS 10809
RS 10769
RS 10729
RS 10689
RS 10649
RS 10609
RS 10569
RS 10529
RS 10489
RS 10449
RS 10409
RS 10369
RS 10329
RS 10289
RS 10249
RS 10209
RS 10169
RS 10129
RS 10089
RS 10049
RS 10009
RS 9969
RS 9929
RS 9889
RS 9849
RS 9809
RS 9769
RS 9729
RS 9689
RS 9649
RS 9609
RS 9569
RS 9529
RS 9489
RS 9449
RS 9409
RS 9369
RS 9329
RS 9289
RS 9249
RS 9209
RS 9169
RS 9129
RS 9089
RS 9049
RS 9009
RS 8969
RS 8929
RS 8889
RS 8849
RS 8809
RS 8769
RS 8729
RS 8689
RS 8649
RS 8609
RS 8569
RS 8529
RS 8489
RS 8449
RS 8409
RS 8369
RS 8329
RS 8289
RS 8249
RS 8209
RS 8169
RS 8129
RS 8089
RS 8049
RS 8009
RS 7969
RS 7929
RS 7889
RS 7849
RS 7809
RS 7769
RS 7729
RS 7689
RS 7649
RS 7609
RS 7569
RS 7529
RS 7489
RS 7449
RS 7409
RS 7369
RS 7329
RS 7289
RS 7249
RS 7209
RS 7169
RS 7129
RS 7089
RS 7049
RS 7009
RS 6969
RS 6929
RS 6889
RS 6849
RS 6809
RS 6769
RS 6729
RS 6689
RS 6649
RS 6609
RS 6569
RS 6529
RS 6489
RS 6449
RS 6409
RS 6369
RS 6329
RS 6289
RS 6249
RS 6209
RS 6169
RS 6129
RS 6089
RS 6049
RS 6009
RS 5969
RS 5929
RS 5889
RS 5849
RS 5809
RS 5769
RS 5729
RS 5689
RS 5649
RS 5609
RS 5569
RS 5529
RS 5489
RS 5449
RS 5409
RS 5369
RS 5329
RS 5289
RS 5249
RS 5209
RS 5169
RS 5129
RS 5089
RS 5049
RS 5009
RS 4969
RS 4929
RS 4889
RS 4849
RS 4809
RS 4769
RS 4729
RS 4689
RS 4649
RS 4609
RS 4569
RS 4529
RS 4489
RS 4449
RS 4409
RS 4369
RS 4329
RS 4289
RS 4249
RS 4209
RS 4169
RS 4129
RS 4089
RS 4049
RS 4009
RS 3969
RS 3929
RS 3889
RS 3849
RS 3809
RS 3769
RS 3729
RS 3689
RS 3649
RS 3609
RS 3569
RS 3529
RS 3489
RS 3449
RS 3409
RS 3369
RS 3329
RS 3289
RS 3249
RS 3209
RS 3169
RS 3129
RS 3089
RS 3049
RS 3009
RS 2969
RS 2929
RS 2889
RS 2849
RS 2809
RS 2769
RS 2729
RS 2689
RS 2649
RS 2609
RS 2569
RS 2529
RS 2489
RS 2449
RS 2409
RS 2369
RS 2329
RS 2289
RS 2249
RS 2209
RS 2169
RS 2129
RS 2089
RS 2049
RS 2009
RS 1969
RS 1929
RS 1889
RS 1849
RS 1809
RS 1769
RS 1729
RS 1689
RS 1649
RS 1609
RS 1569
RS 1529
RS 1489
RS 1449
RS 1409
RS 1369
RS 1329
RS 1289
RS 1249
RS 1209
RS 1169
RS 1129
RS 1089
RS 1049
RS 1009
RS 969
RS 929
RS 889
RS 849
RS 809
RS 769
RS 729
RS 689
RS 649
RS 609
RS 569
RS 529
RS 489
RS 449
RS 409
RS 369
RS 329
RS 289
RS 249
RS 209
RS 169
RS 129
RS 89
RS 49
RS 9
XS#1
XS#2
XS#3
XS#4
XS#5
XS#6
XS#7
XS#8
XS#9
XS#10
XS#11
XS#12
XS#13
XS#14
XS#15
XS#16
XS#17
XS#18
XS#19
XS#20
XS#21
XS#22
XS#23
XS#24
XS#25
XS#26
XS#27
XS#28
XS#29
XS#30
XS#31
XS#32
XS#33
XS#34
XS#35
XS#36
XS#37
XS#38
XS#39
XS#40
XS#41
XS#42
XS#43
XS#44
XS#45
XS#46
XS#47
XS#48
XS#49
XS#50
XS#51
XS#52
XS#53
XS#54
XS#55
XS#56
XS#57
XS#58
XS#59
XS#60
XS#61
XS#62
XS#63
XS#64
XS#65
XS#66
XS#67
XS#68
XS#69
XS#70
XS#71
XS#72
XS#73
XS#74
XS#75
XS#76
XS#77
XS#78
XS#79
XS#80
XS#81
XS#82
XS#83
XS#84
XS#85
XS#86
XS#87
XS#88
XS#89
XS#90
XS#91
XS#92
XS#93
XS#94
XS#95
XS#96
XS#97
XS#98
XS#99
XS#100
XS#101
XS#102
XS#103
XS#104
XS#105
XS#106
XS#107
XS#108
XS#109
XS#110
XS#111
XS#112
XS#113
XS#114
XS#115
XS#116
XS#117
XS#118
XS#119
XS#120
XS#121
XS#122
XS#123
XS#124
XS#125
XS#126
XS#127
XS#128
XS#129
XS#130
XS#131
XS#132
XS#133
XS#134
XS#135
XS#136
XS#137
XS#138
XS#139
XS#140
XS#141
XS#142
XS#143
XS#144
XS#145
XS#146
XS#147
XS#148
XS#149
XS#150
XS#151
XS#152
XS#153
XS#154
XS#155
XS#156
XS#157
XS#158
XS#159
XS#160
XS#161
XS#162
XS#163
XS#164
XS#165
XS#166
XS#167
XS#168
XS#169
XS#170
XS#171
XS#172
XS#173
XS#174
XS#175
XS#176
XS#177
XS#178
XS#179
XS#180
XS#181
XS#182
XS#183
XS#184
XS#185
XS#186
XS#187
XS#188
XS#189
XS#190
XS#191
XS#192
XS#193
XS#194
XS#195
XS#196
XS#197
XS#198
XS#199
XS#200
XS#201
XS#202
XS#203
XS#204
XS#205
XS#206
XS#207
XS#208
XS#209
XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232
XS#233
XS#234
XS#235
XS#236
XS#237
XS#238
XS#239
XS#240
XS#241
XS#242
XS#243
XS#244
XS#245
XS#246
XS#247
XS#248
XS#249
XS#250
XS#251
XS#252
XS#253
XS#254
XS#255
XS#256
XS#257
XS#258
XS#259
XS#260
XS#261
XS#262
XS#263
XS#264
XS#265
XS#266
XS#267
XS#268
XS#269
XS#270
XS#271
XS#272
XS#273
XS#274
XS#275
XS#276
XS#277
XS#278
XS#279
XS#280
XS#281
XS#282
XS#283
XS#284
XS#285
XS#286
XS#287
XS#288
XS#289
XS#290
XS#291
XS#292
XS#293
XS#294
XS#295
XS#296
XS#297
XS#298
XS#299
XS#300
XS#301
XS#302
XS#303
XS#304
XS#305
XS#306
XS#307
XS#308
XS#309
XS#310
XS#311
XS#312
XS#313
XS#314
XS#315
XS#316
XS#317
XS#318
XS#319
XS#320
XS#321
XS#322
XS#323
XS#324
XS#325
XS#326
XS#327
XS#328
XS#329
XS#330
XS#331
XS#332
XS#333
XS#334
XS#335
XS#336
XS#337
XS#338
XS#339
XS#340
XS#341
XS#342
XS#343
XS#344
XS#345
XS#346
XS#347
XS#348
XS#349
XS#350
XS#351
XS#352
XS#353
XS#354
XS#355
XS#356
XS#357
XS#358
XS#359
XS#360
XS#361
XS#362
XS#363
XS#364
XS#365
XS#366
XS#367
XS#368
XS#369
XS#370
XS#371
XS#372
XS#373
XS#374
XS#375
XS#376
XS#377
XS#378
XS#379
XS#380
XS#381
XS#382
XS#383
XS#384
XS#385
XS#386
XS#387
XS#388
XS#389
XS#390
XS#391
XS#392
XS#393
XS#394
XS#395
XS#396
XS#397
XS#398
XS#399
XS#400
XS#401
XS#402
XS#403
XS#404
XS#405
XS#406
XS#407
XS#408
XS#409
XS#410
XS#411
XS#412
XS#413
XS#414
XS#415
XS#416
XS#417
XS#418
XS#419
XS#420
XS#421
XS#422
XS#423
XS#424
XS#425
XS#426
XS#427
XS#428
XS#429
XS#430
XS#431
XS#432
XS#433
XS#434
XS#435
XS#436
XS#437
XS#438
XS#439
XS#440
XS#441
XS#442
XS#443
XS#444
XS#445
XS#446
XS#447
XS#448
XS#449
XS#450
XS#451
XS#452
XS#453
XS#454
XS#455
XS#456
XS#457
XS#458
XS#459
XS#460
XS#461
XS#462
XS#463
XS#464
XS#465
XS#466
XS#467
XS#468
XS#469
XS#470
XS#471
XS#472
XS#473
XS#474
XS#475
XS#476
XS#477
XS#478
XS#479
XS#480
XS#481
XS#482
XS#483
XS#484
XS#485
XS#486
XS#487
XS#488
XS#489
XS#490
XS#491
XS#492
XS#493
XS#494
XS#495
XS#496
XS#497
XS#498
XS#499
XS#500
XS#501
XS#502
XS#503
XS#504
XS#505
XS#506
XS#507
XS#508
XS#509
XS#510
XS#511
XS#512
XS#513
XS#514
XS#515
XS#516
XS#517
XS#518
XS#519
XS#520
XS#521
XS#522
XS#523
XS#524
XS#525
XS#526
XS#527
XS#528
XS#529
XS#530
XS#531
XS#532
XS#533
XS#534
XS#535
XS#536
XS#537
XS#538
XS#539
XS#540
XS#541
XS#542
XS#543
XS#544
XS#545
XS#546
XS#547
XS#548
XS#549
XS#550
XS#551
XS#552
XS#553
XS#554
XS#555
XS#556
XS#557
XS#558
XS#559
XS#560
XS#561
XS#562
XS#563
XS#564
XS#565
XS#566
XS#567
XS#568
XS#569
XS#570
XS#571
XS#572
XS#573
XS#574
XS#575
XS#576
XS#577
XS#578
XS#579
XS#580
XS#581
XS#582
XS#583
XS#584
XS#585
XS#586
XS#587
XS#588
XS#589
XS#590
XS#591
XS#592
XS#593
XS#594
XS#595
XS#596
XS#597
XS#598
XS#599
XS#600
XS#601
XS#602
XS#603
XS#604
XS#605
XS#606
XS#607
XS#608
XS#609
XS#610
XS#611
XS#612
XS#613
XS#614
XS#615
XS#616
XS#617
XS#618
XS#619
XS#620
XS#621
XS#622
XS#623
XS#624
XS#625
XS#626
XS#627
XS#628
XS#629
XS#630
XS#631
XS#632
XS#633
XS#634
XS#635
XS#636
XS#637
XS#638
XS#639
XS#640
XS#641
XS#642
XS#643
XS#644
XS#645
XS#646
XS#647
XS#648
XS#649
XS#650
XS#651
XS#652
XS#653
XS#654
XS#655
XS#656
XS#657
XS#658
XS#659
XS#660
XS#661
XS#662
XS#663
XS#664
XS#665
XS#666
XS#667
XS#668
XS#669
XS#670
XS#671
XS#672
XS#673
XS#674
XS#675
XS#676
XS#677
XS#678
XS#679
XS#680
XS#681
XS#682
XS#683
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
XS#713
XS#714
XS#715
XS#716
XS#717
XS#718
XS#719
XS#720
XS#721
XS#722
XS#723
XS#724
XS#725
XS#726
XS#727
XS#728
XS#729
XS#730
XS#731
XS#732
XS#733
XS#734
XS#735
XS#736
XS#737
XS#738
XS#739
XS#740
XS#741
XS#742
XS#743
XS#744
XS#745
XS#746
XS#747
XS#748
XS#749
XS#750
XS#751
XS#752
XS#753
XS#754
XS#755
XS#756
XS#757
XS#758
XS#759
XS#760
XS#761
XS#762
XS#763
XS#764
XS#765
XS#766
XS#767
XS#768
XS#769
XS#770
XS#771
XS#772
XS#773
XS#774
XS#775
XS#776
XS#777
XS#778
XS#779
XS#780
XS#781
XS#782
XS#783
XS#784
XS#785
XS#786
XS#787
XS#788
XS#789
XS#790
XS#791
XS#792
XS#793
XS#794
XS#795
XS#796
XS#797
XS#798
XS#799
XS#800
XS#801
XS#802
XS#803
XS#804
XS#805
XS#806
XS#807
XS#808
XS#809
XS#810
XS#811
XS#812
XS#813
XS#814
XS#815
XS#816
XS#817
XS#818
XS#819
XS#820
XS#821
XS#822
XS#823
XS#824
XS#825
XS#826
XS#827
XS#828
XS#829
XS#830
XS#831
XS#832
XS#833
XS#834
XS#835
XS#836
XS#837
XS#838
XS#839
XS#840
XS#841
XS#842
XS#843
XS#844
XS#845
XS#846
XS#847
XS#848
XS#849
XS#850
XS#851
XS#852
XS#853
XS#854
XS#855
XS#856
XS#857
XS#858
XS#859
XS#860
XS#861
XS#862
XS#863
XS#864
XS#865
XS#866
XS#867
XS#868
XS#869
XS#870
XS#871
XS#872
XS#873
XS#874
XS#875
XS#876
XS#877
XS#878
XS#879
XS#880
XS#881
XS#882
XS#883
XS#884
XS#885
XS#886
XS#887
XS#888
XS#889
XS#890
XS#891
XS#892
XS#893
XS#894
XS#895
XS#896
XS#897
XS#898
XS#899
XS#900
XS#901
XS#902
XS#903
XS#904
XS#905
XS#906
XS#907
XS#908
XS#909
XS#910
XS#911
XS#912
XS#913
XS#914
XS#915
XS#916
XS#917
XS#918
XS#919
XS#920
XS#921
XS#922
XS#923
XS#924
XS#925
XS#926
XS#927
XS#928
XS#929
XS#930
XS#931
XS#932
XS#933
XS#934
XS#935
XS#936
XS#937
XS#938
XS#939
XS#940
XS#941
XS#942
XS#943
XS#944
XS#945
XS#946
XS#947
XS#948
XS#949
XS#950
XS#951
XS#952
XS#953
XS#954
XS#955
XS#956
XS#957
XS#958
XS#959
XS#960
XS#961
XS#962
XS#963
XS#964
XS#965
XS#966
XS#967
XS#968
XS#969
XS#970
XS#971
XS#972
XS#973
XS#974
XS#975
XS#976
XS#977
XS#978
XS#979
XS#980
XS#981
XS#982
XS#983
XS#984
XS#985
XS#986
XS#987
XS#988
XS#989
XS#990
XS#991
XS#992
XS#993
XS#994
XS#995
XS#996
XS#997
XS#998
XS#999
XS#1000
XS#1001
XS#1002
XS#1003
XS#1004
XS#1005
XS#1006
XS#1007
XS#1008
XS#1009
XS#1010
XS#1011
XS#1012
XS#1013
XS#1014
XS#1015
XS#1016
XS#1017
XS#1018
XS#1019
XS#1020
XS#1021
XS#1022
XS#1023
XS#1024
XS#1025
XS#1026
XS#1027
XS#1028
XS#1029
XS#1030
XS#1031
XS#1032
XS#1033
XS#1034
XS#1035
XS#1036
XS#1037
XS#1038
XS#1039
XS#1040
XS#1041
XS#1042
XS#1043
XS#1044
XS#1045
XS#1046
XS#1047
XS#1048
XS#1049
XS#1050
XS#1051
XS#1052
XS#1053
XS#1054
XS#1055
XS#1056
XS#1057
XS#1058
XS#1059
XS#1060
XS#1061
XS#1062
XS#1063
XS#1064
XS#1065
XS#1066
XS#1067
XS#1068
XS#1069
XS#1070
XS#1071
XS#1072
XS#1073
XS#1074
XS#1075
XS#1076
XS#1077
XS#1078
XS#1079
XS#1080
XS#1081
XS#1082
XS#1083
XS#1084
XS#1085
XS#1086
XS#1087
XS#1088
XS#1089
XS#1090
XS#1091
XS#1092
XS#1093
XS#1094
XS#1095
XS#1096
XS#1097
XS#1098
XS#1099
XS#1100
XS#1101
XS#1102
XS#1103
XS#1104
XS#1105
XS#1106
XS#1107
XS#1108
XS#1109
XS#1110
XS#1111
XS#1112
XS#1113
XS#1114
XS#1115
XS#1116
XS#1117
XS#1118
XS#1119
XS#1120
XS#1121
XS#1122
XS#1123
XS#1124
XS#1125
XS#1126
XS#1127
XS#1128
XS#1129
XS#1130
XS#1131
XS#1132
XS#1133
XS#1134
XS#1135
XS#1136
XS#1137
XS#1138
XS#1139
XS#1140
XS#1141
XS#1142
XS#1143
XS#1144
XS#1145
XS#1146
XS#1147
XS#1148
XS#1149
XS#1150
XS#1151
XS#1152
XS#1153
XS#1154
XS#1155
XS#1156
XS#1157
XS#1158
XS#1159
XS#1160
XS#1161
XS#1162
XS#1163
XS#1164
XS#1165
XS#1166
XS#1167
XS#1168
XS#1169
XS#1170
XS#1171
XS#1172
XS#1173
XS#1174
XS#1175
XS#1176
XS#1177
XS#1178
XS#1179
XS#1180
XS#1181
XS#1182
XS#1183
XS#1184
XS#1185
XS#1186
XS#1187
XS#1188
XS#1189
XS#1190
XS#1191
XS#1192
XS#1193
XS#1194
XS#1195
XS#1196
XS#1197
XS#1198
XS#1199
XS#1200
XS#1201
XS#1202
XS#1203
XS#1204
XS#1205
XS#1206
XS#1207
XS#1208
XS#1209
XS#1210
XS#1211
XS#1212
XS#1213
XS#1214
XS#1215
XS#1216
XS#1217
XS#1218
XS#1219
XS#1220
XS#1221
XS#1222
XS#1223
XS#



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

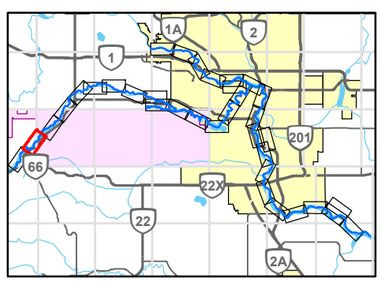
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S
BRAGG CREEK = 94.6 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:03:46 PM

Classification: Public

SHEET 20 ↑

SHEET 22 ↓

5650000

REDWOOD MEADOWS GOLF & COUNTRY CLUB BERM

REDWOOD MEADOWS BERM

Elbow River

TSUU T'INA DRIVE

REDWOOD MEADOWS DRIVE

WOLF CRESCENT

WOLF DRIVE

22

22X

66

1

1A

2

201

2A

5650000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

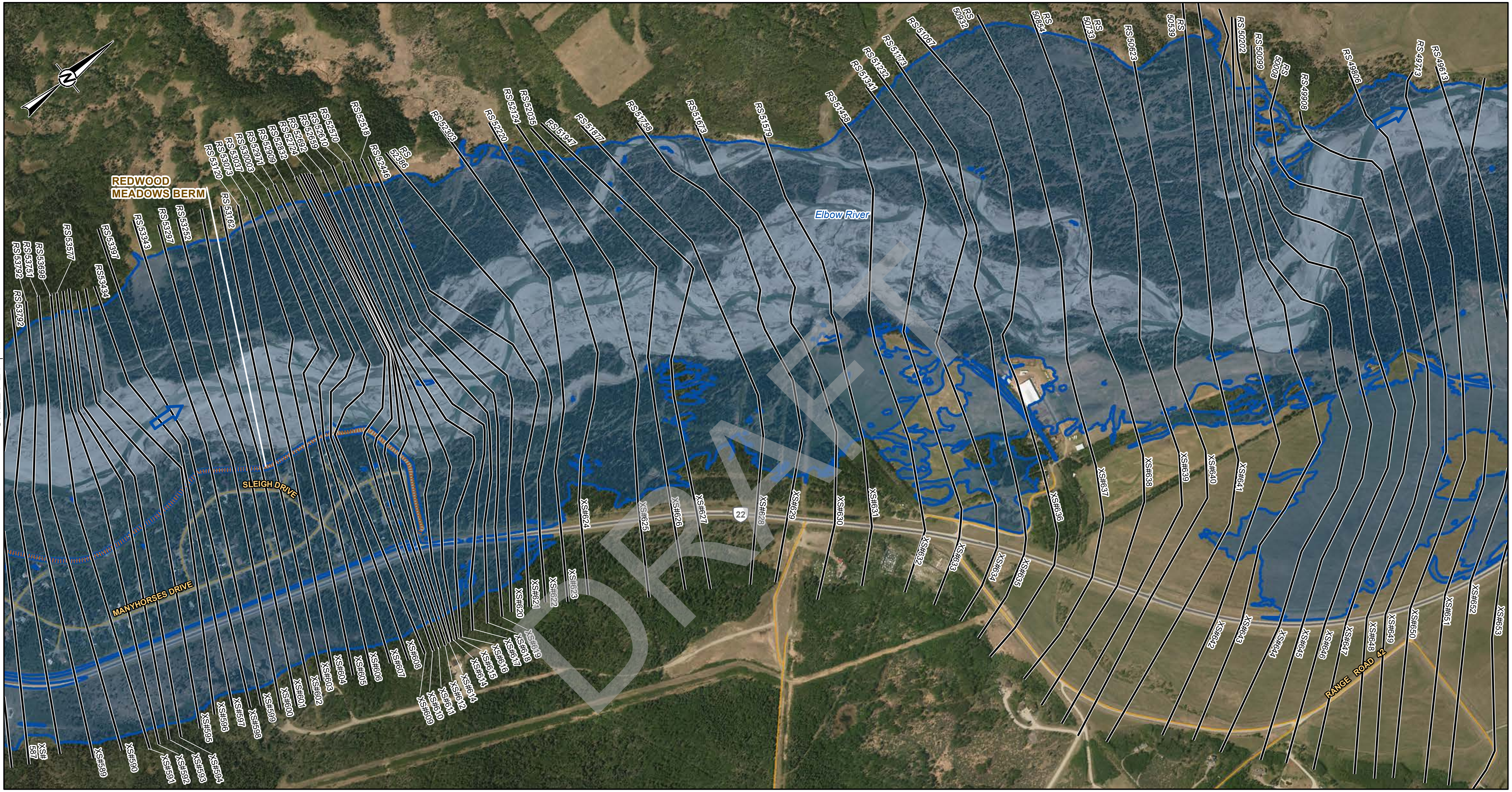
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:04:41 PM

Classification: Public



LEGEND

CROSS SECTION
XS#100 CROSS SECTION NUMBER
RS 304 RIVER STATION (M)
STUDY BOUNDARY
FLOW DIRECTION
LOCAL ROAD
PATHWAY
PRIMARY HIGHWAY
SECONDARY HIGHWAY
RAILWAY

FLOOD CONTROL STRUCTURE

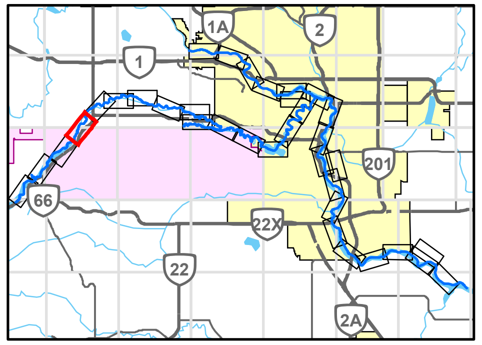
HYDRAULIC STRUCTURES

CULVERT
DAM
OTHER
WEIR
BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT
750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

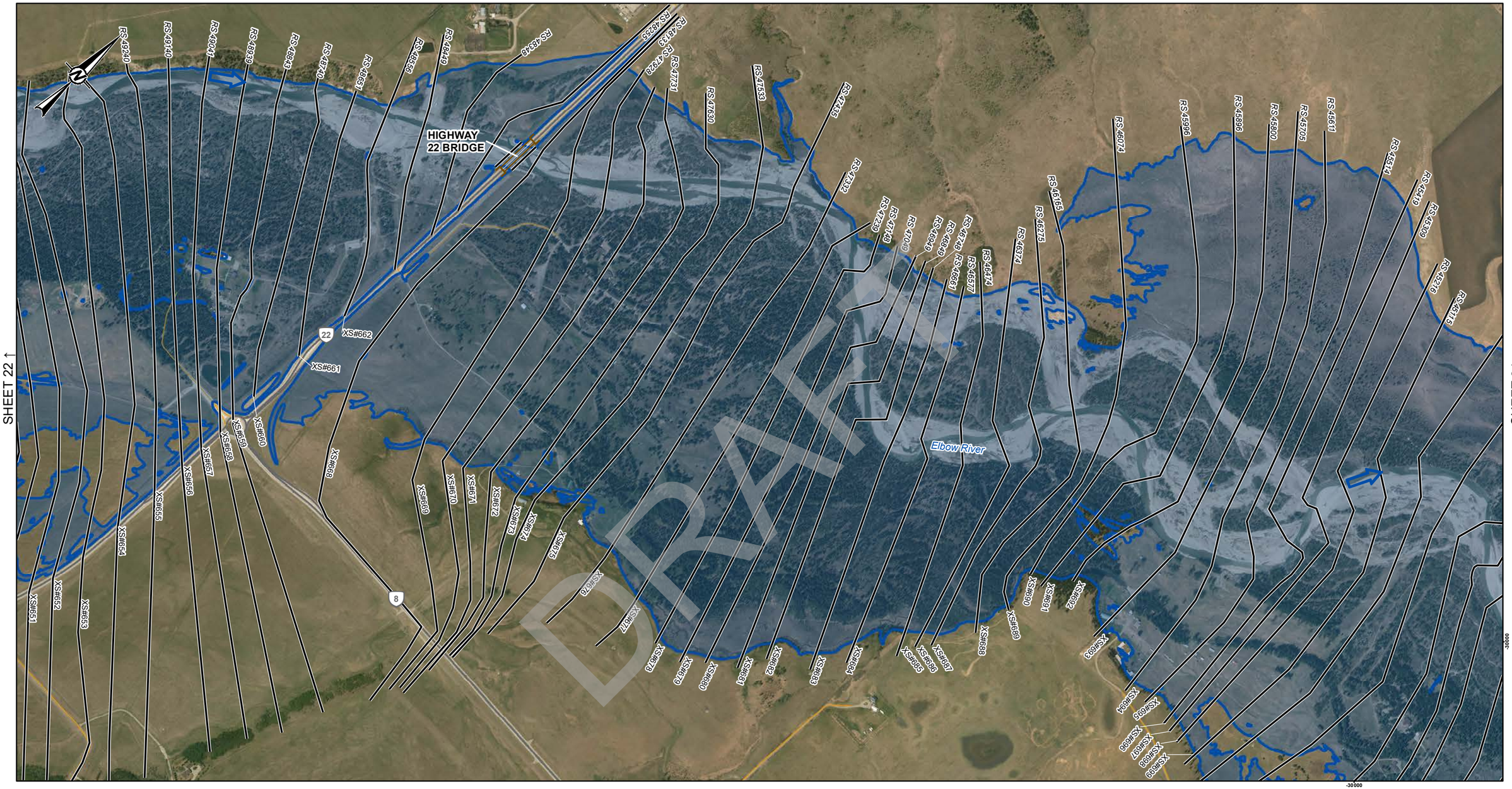
TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:05:34 PM

Classification: Public



DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

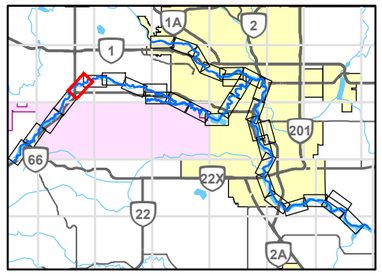
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

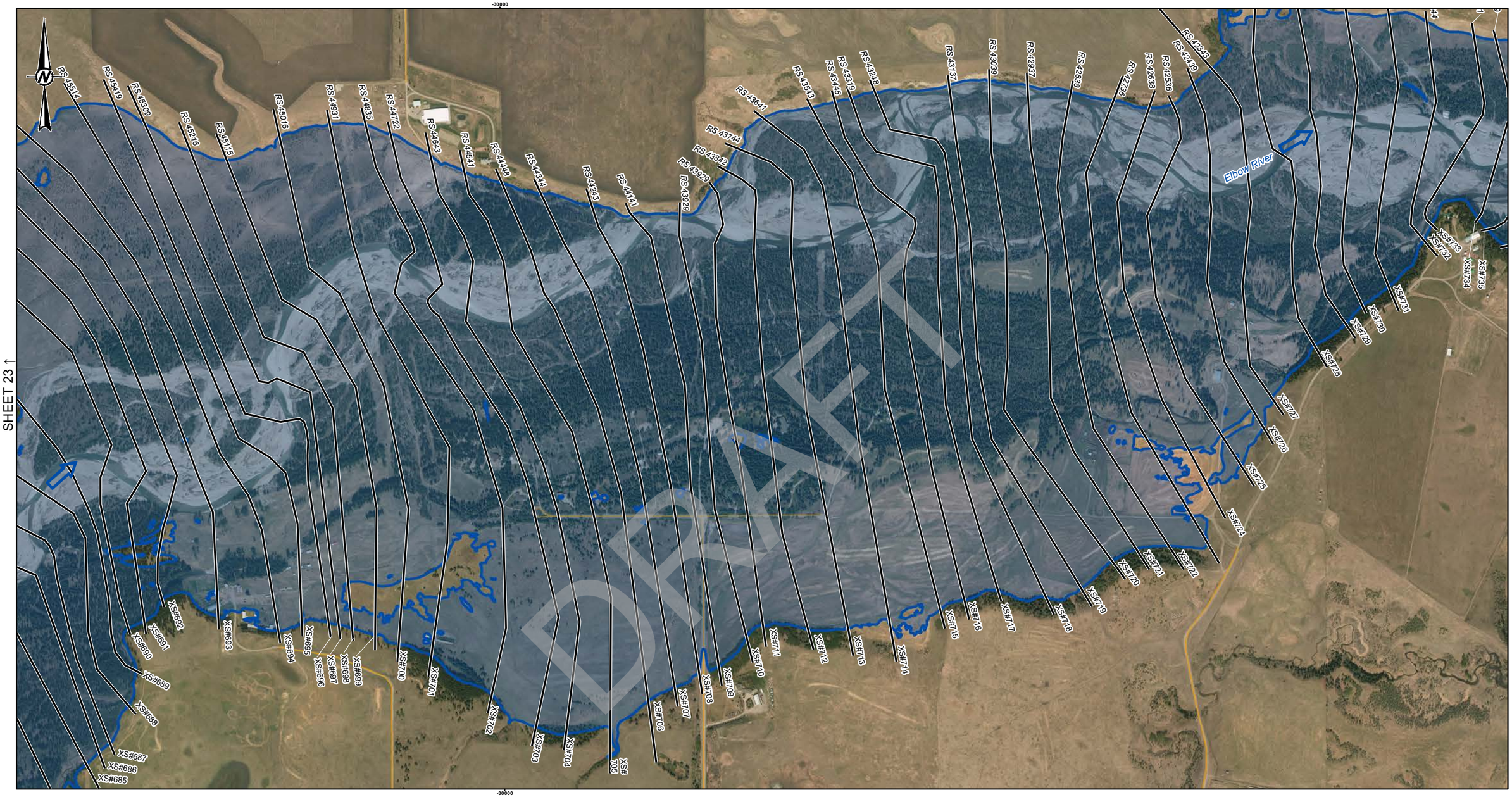
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_075b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:08:24 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

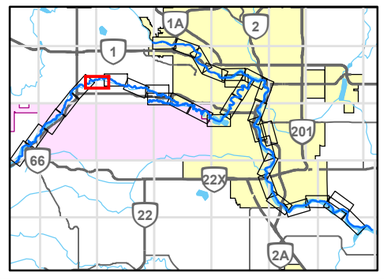
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

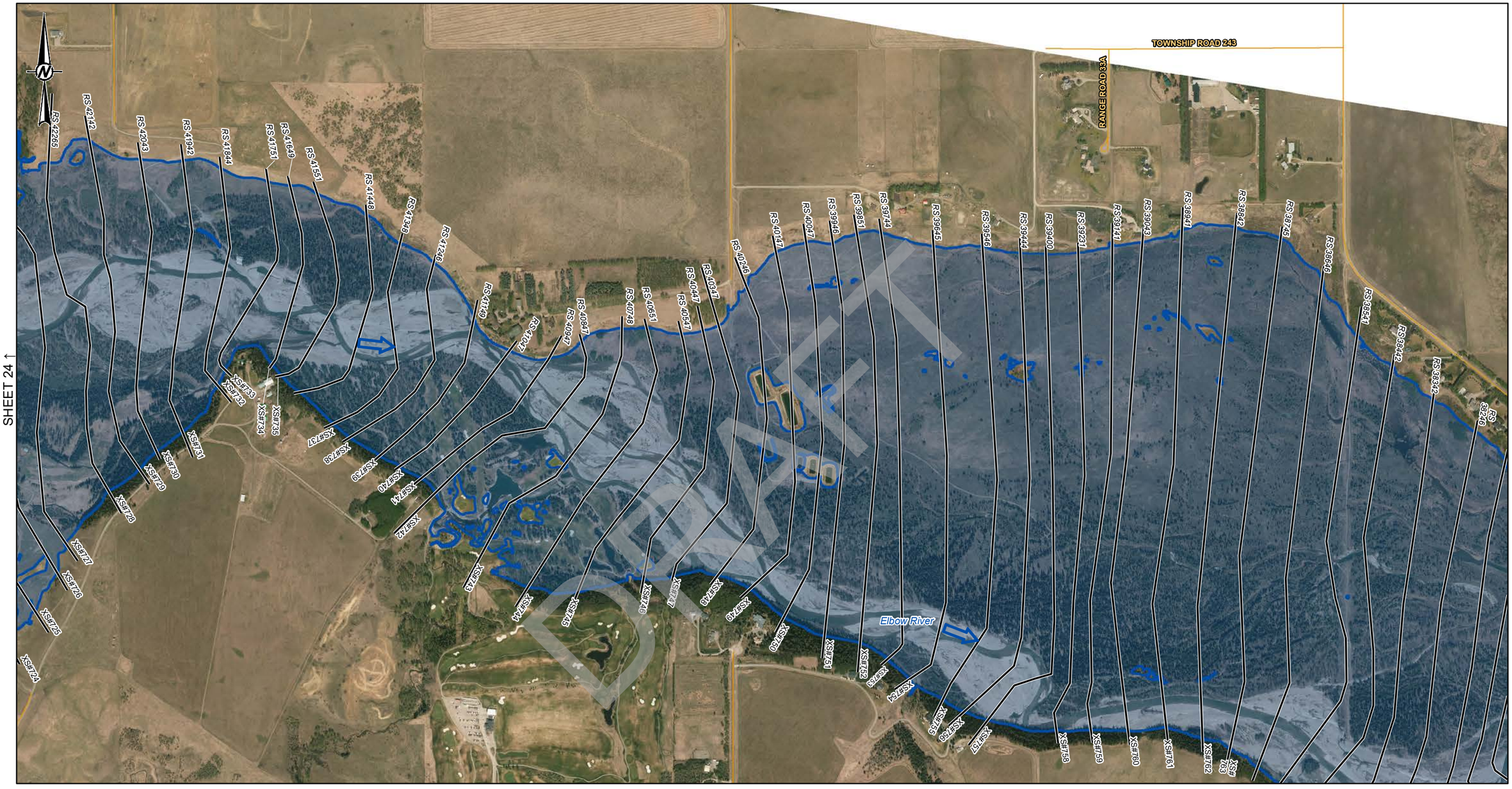
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

DRAFT

Classification: Public

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:07:04 PM



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

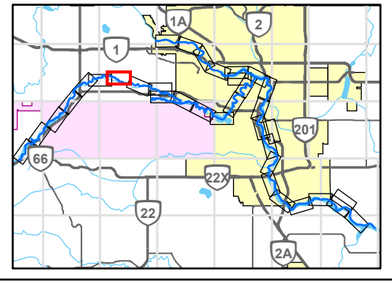
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

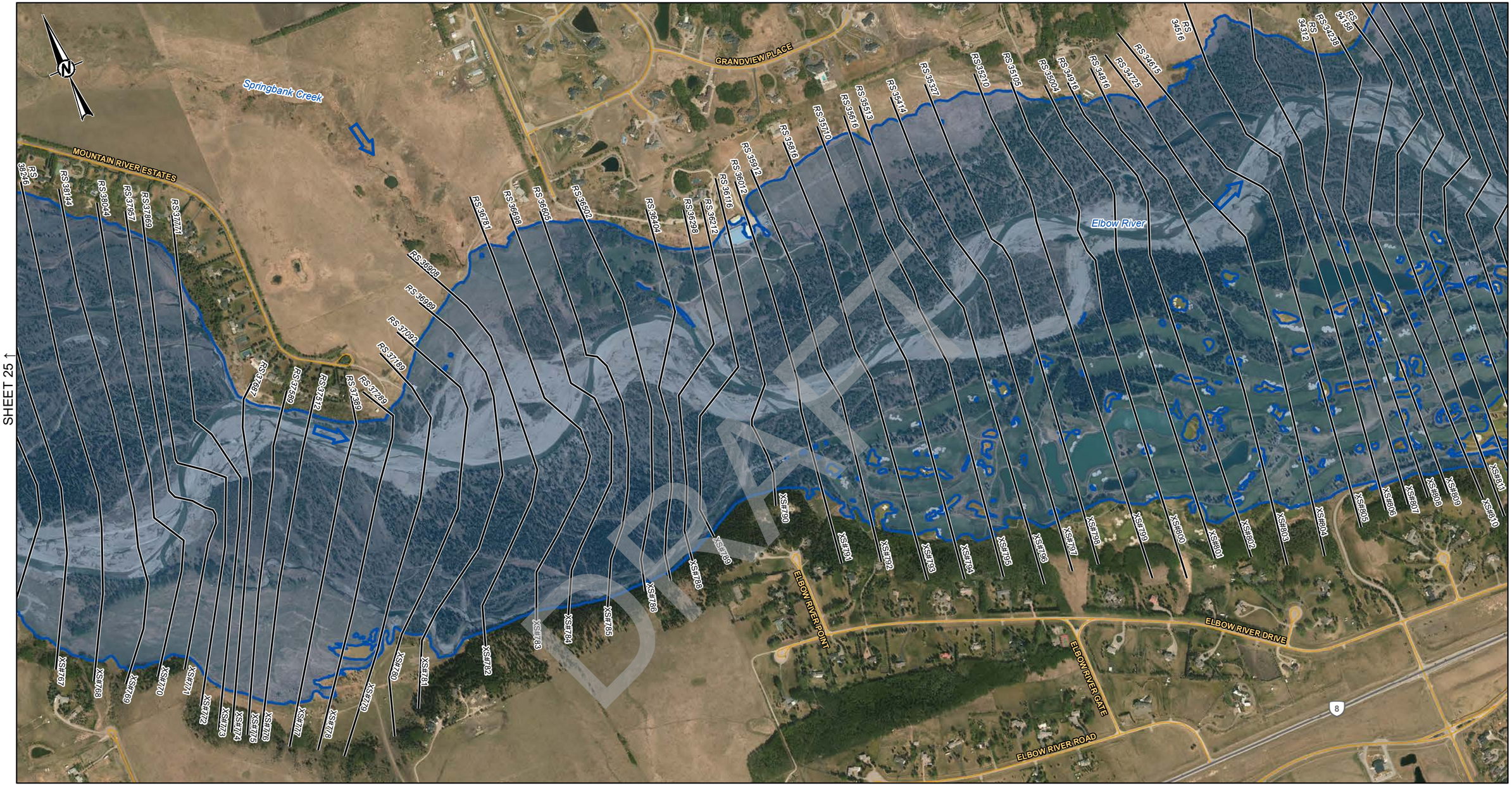
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4 07:39 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

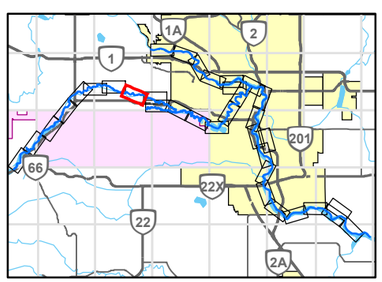
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 1930 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_07\5-hy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:08:31 PM

Classification: Public

SHEET 26 ↑

SHEET 29 ↓

SHEET 28 ↓

RS 34238
RS 34156
RS 34080
RS 33920
RS 33840
RS 33760
RS 33681
RS 33603
RS 33521
RS 33442
RS 33363
RS 33280
RS 33200
RS 33124
RS 32961
RS 32883
RS 32808
RS 32729
RS 32650
RS 32570
RS 32488
RS 32329
RS 32249
RS 32167
RS 32088
RS 32008
RS 31927
RS 31850
RS 31769
RS 31688
RS 31615
RS 31523
RS 31450
RS 31377
RS 31283
RS 31208
RS 31123
RS 31047
RS 30967
RS 30885
RS 30728
RS 30648
RS 30568
RS 30478
RS 30319
RS 30237
RS 30170
RS 30087
RS 30012
RS 29936
RS 29859
RS 29776
RS 29693
RS 29610
RS 29527
RS 29447

XS#811
XS#812
XS#813
XS#814
XS#815
XS#816
XS#817
XS#818
XS#819
XS#820
XS#821
XS#822
XS#823
XS#824
XS#825
XS#826
XS#827
XS#828
XS#829
XS#830
XS#831
XS#832
XS#833
XS#834
XS#835
XS#836
XS#837
XS#838
XS#839
XS#840
XS#841
XS#842
XS#843
XS#844
XS#845
XS#846
XS#847
XS#848
XS#849
XS#850
XS#851
XS#852
XS#853
XS#854
XS#855
XS#856
XS#857
XS#858
XS#859
XS#860
XS#861
XS#862
XS#863
XS#864

STONEPINE COVE
STONEPINE DRIVE
GRANITE RIDGE
WHISPERING WATER TRAIL
WHISPERING WATER BEND
WINGING RIVER WAY
ELBOW RIDGE BLUFFS
PINERIDGE WAY SOUTHWEST
Elbow River
8

-20000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

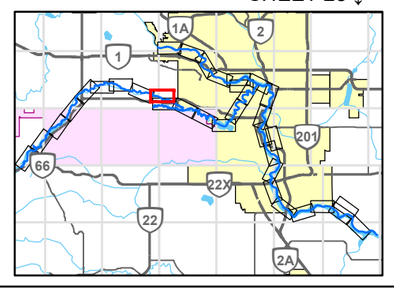
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S
LOTT CREEK = 52 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

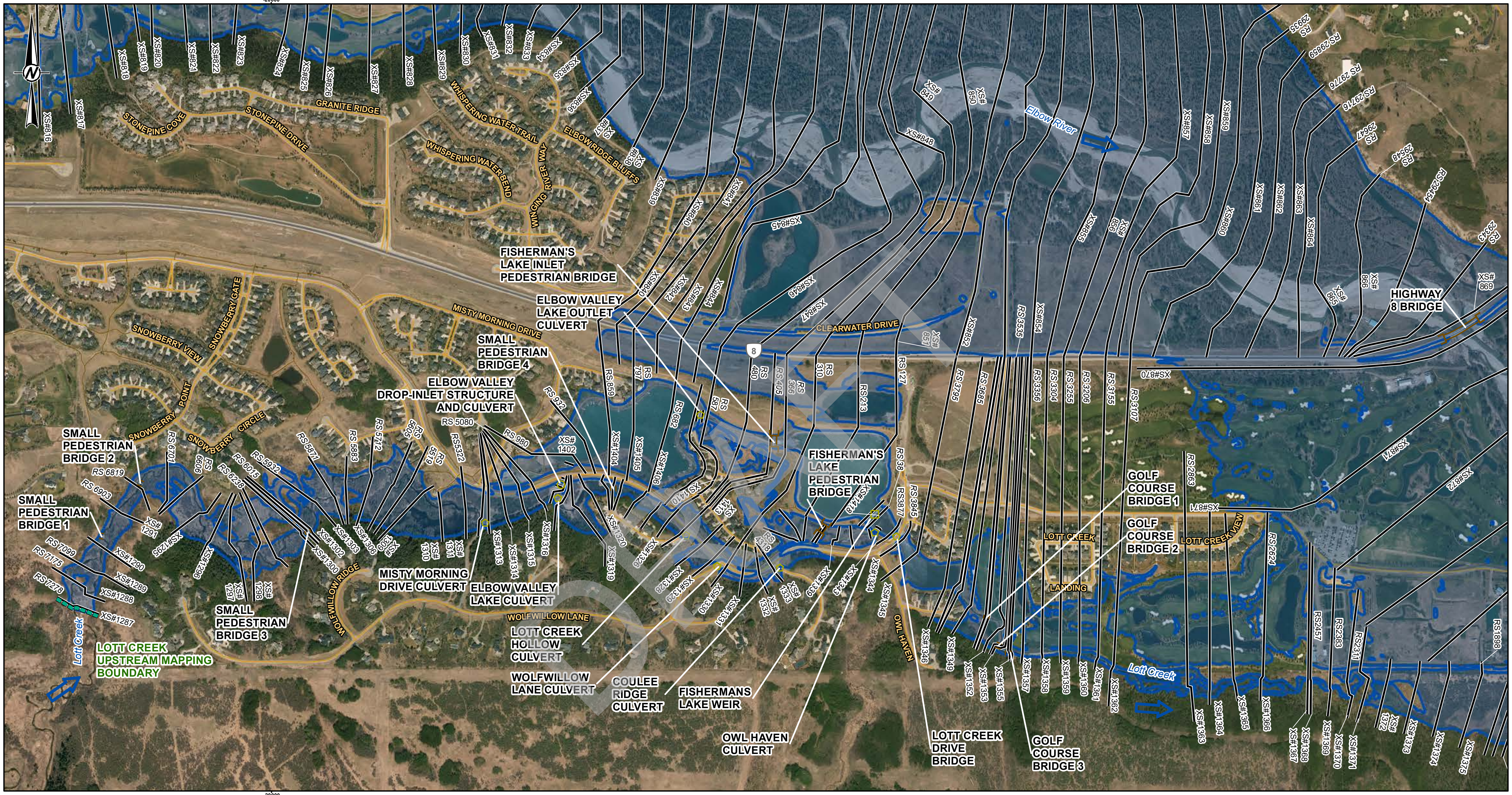
25mm

0

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0759y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:09:53 PM

Classification: Public

SHEET 27 ↑



SHEET 29 →

LEGEND

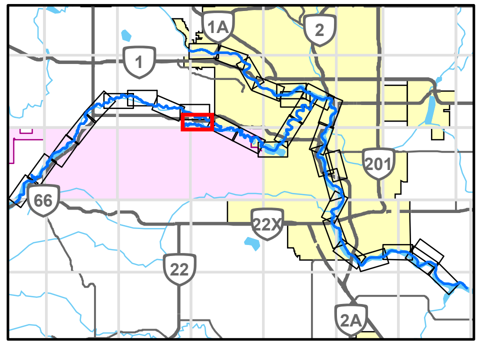
CROSS SECTION	FLOOD CONTROL STRUCTURE
XS#100 CROSS SECTION NUMBER	**HYDRAULIC STRUCTURES**
RS 304 RIVER STATION (M)	CULVERT
STUDY BOUNDARY	DAM
FLOW DIRECTION	OTHER
LOCAL ROAD	WEIR
PATHWAY	BRIDGE
PRIMARY HIGHWAY	
SECONDARY HIGHWAY	
RAILWAY	

750-YEAR FLOOD INUNDATION EXTENT

750-YEAR FLOOD EXTENT

750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S
LOTT CREEK = 52 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:11:16 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

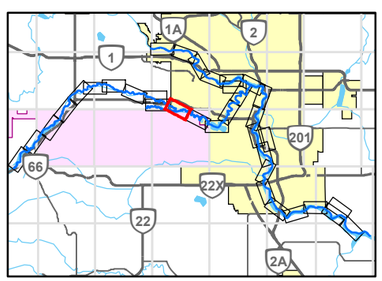
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S
LOTT CREEK = 52 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:13:03 PM

Classification: Public

SHEET 29 ↑

SHEET 31 ↓

GREY EAGLE DRIVE BRIDGE

WEASELHEAD GLENMORE PATHWAY

Elbow River

RS 24049 RS 23936 RS 23739 RS 23509 XS#908 XS#909 XS#910 XS#911 XS#912 XS#913 XS#914 XS#915 XS#916 XS#907 XS#917 XS#918 XS#919 XS#920 XS#921 XS#922 XS#923 XS#924 XS#925 XS#926 XS#927 XS#928 XS#929 XS#930 XS#931 XS#932 XS#933 XS#934 XS#935 XS#936 XS#937 XS#938 XS#939 XS#940 XS#941 XS#942 XS#943 XS#944 XS#945 XS#946 XS#947 XS#948 XS#949 XS#950 XS#951 XS#952 XS#953 XS#954

RS 23360 RS 23242 RS 23121 RS 23001 RS 22768 RS 22705 RS 21953 RS 21842 RS 21709 RS 21560 RS 21434 RS 21261 RS 21119 RS 20971 RS 20860 RS 20714 RS 20522 RS 19953 RS 19761 RS 19701 RS 19508 RS 19237 RS 19232 RS 19089 RS 18926 RS 18777 RS 18629 RS 18475 RS 18361 RS 18060

DRAFT

5650000

-10000

8684000

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

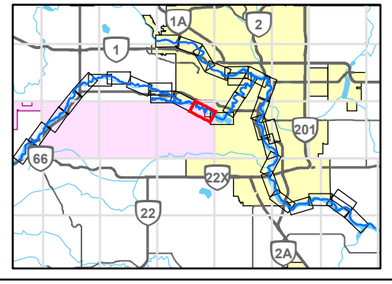
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

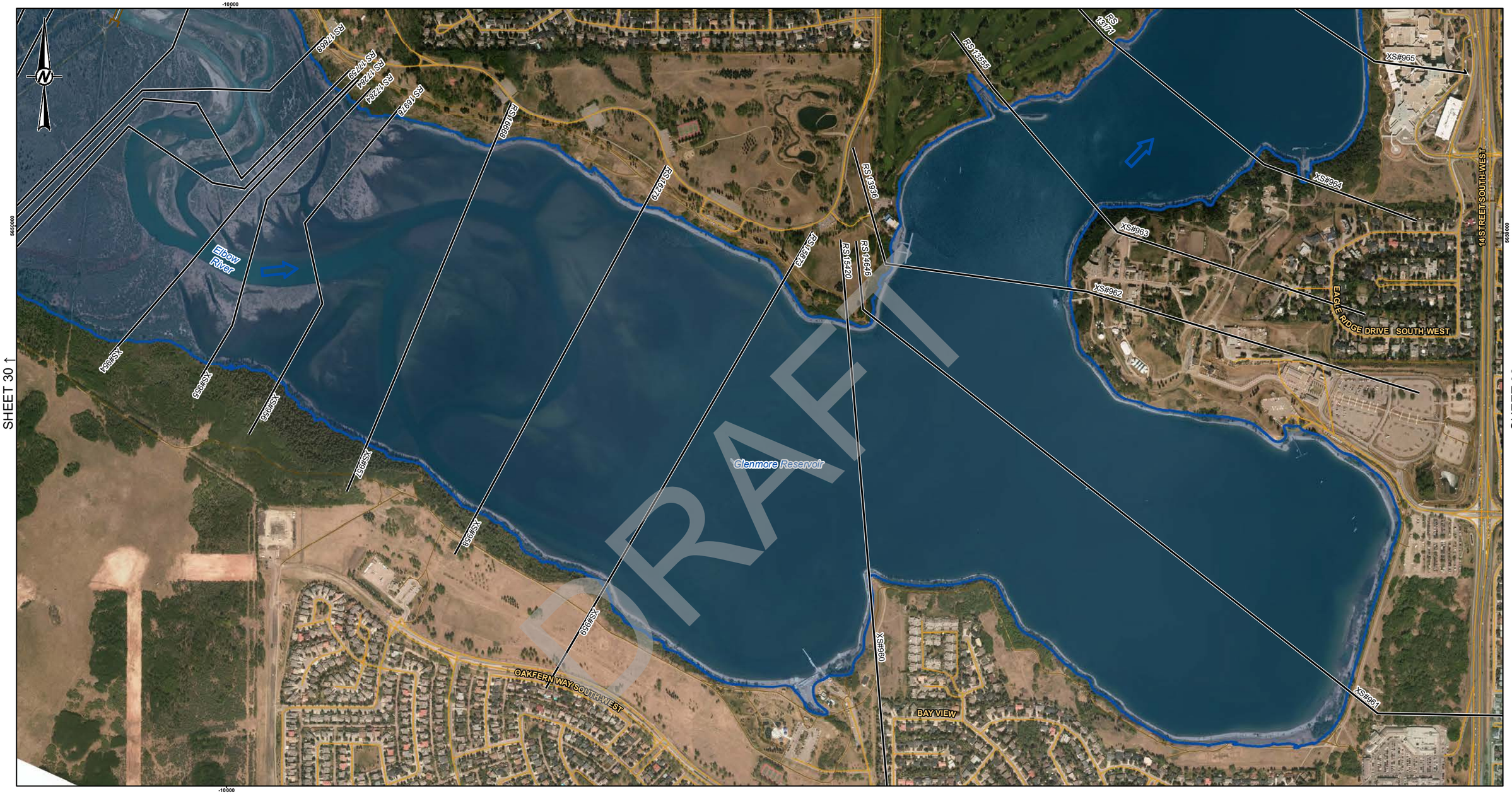
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:14:42 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

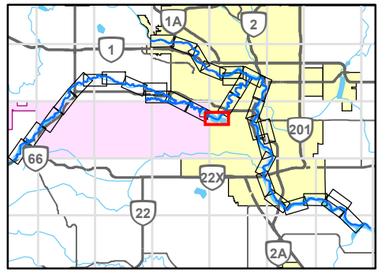
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

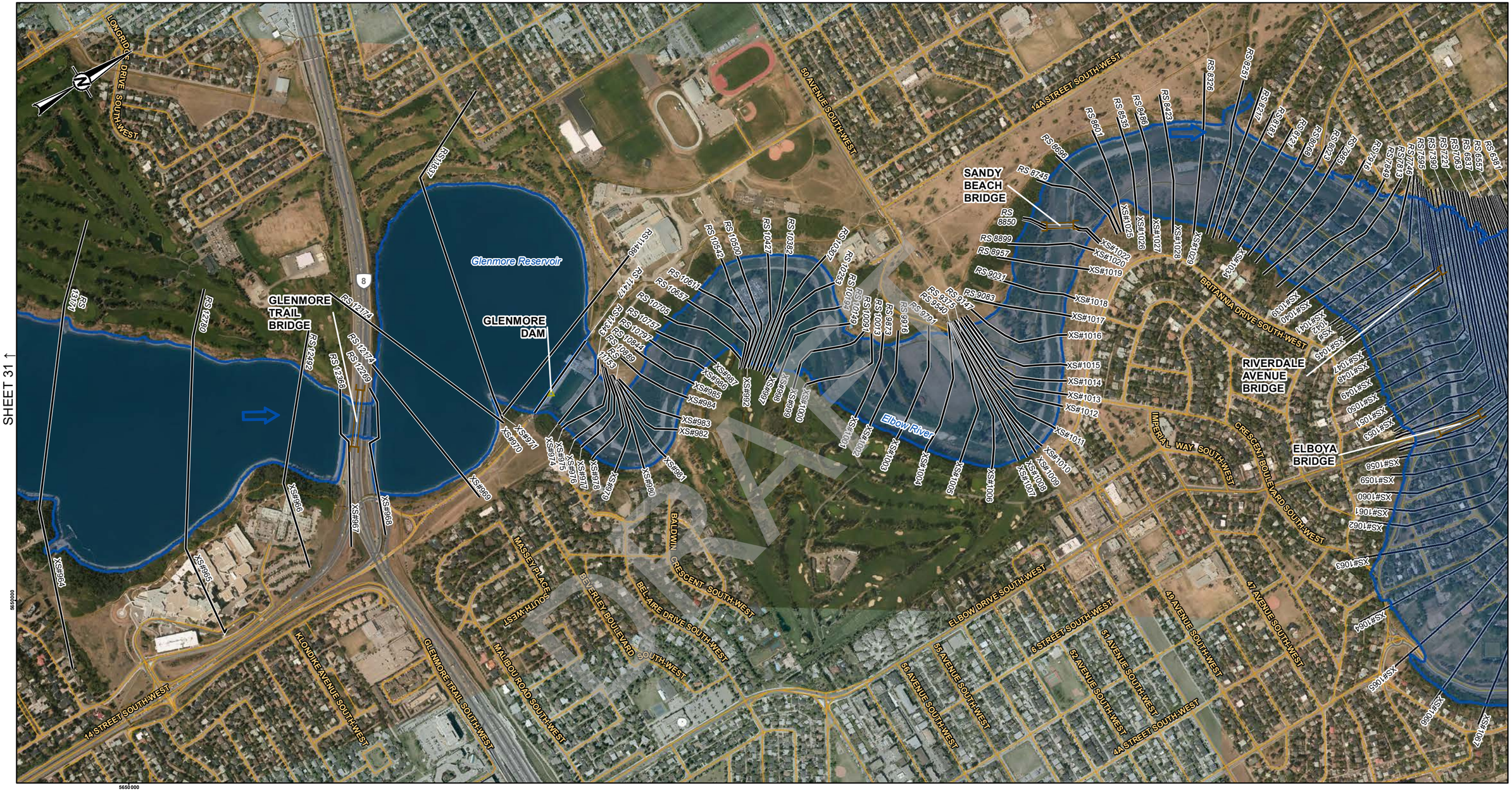
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT 4:16:03 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

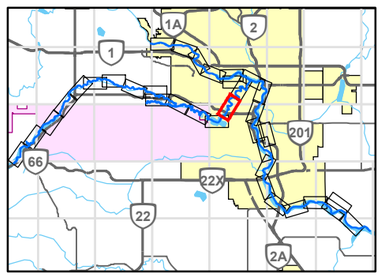
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 1930 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm 0

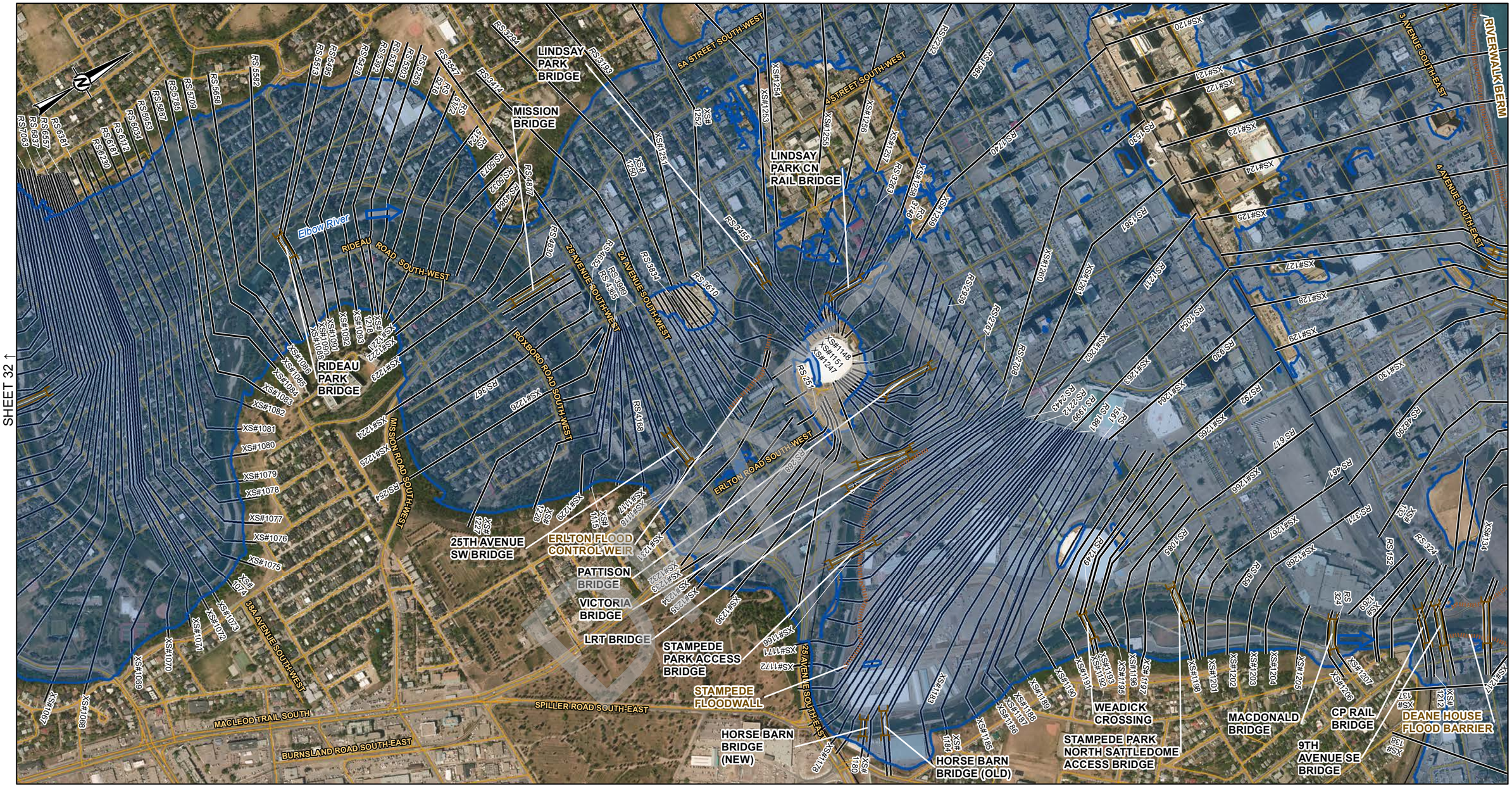
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0759-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:17:41 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

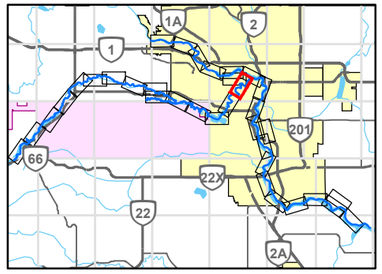
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1930 M^3/S
BOW RIVER BELOW ELBOW RIVER = 4820 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

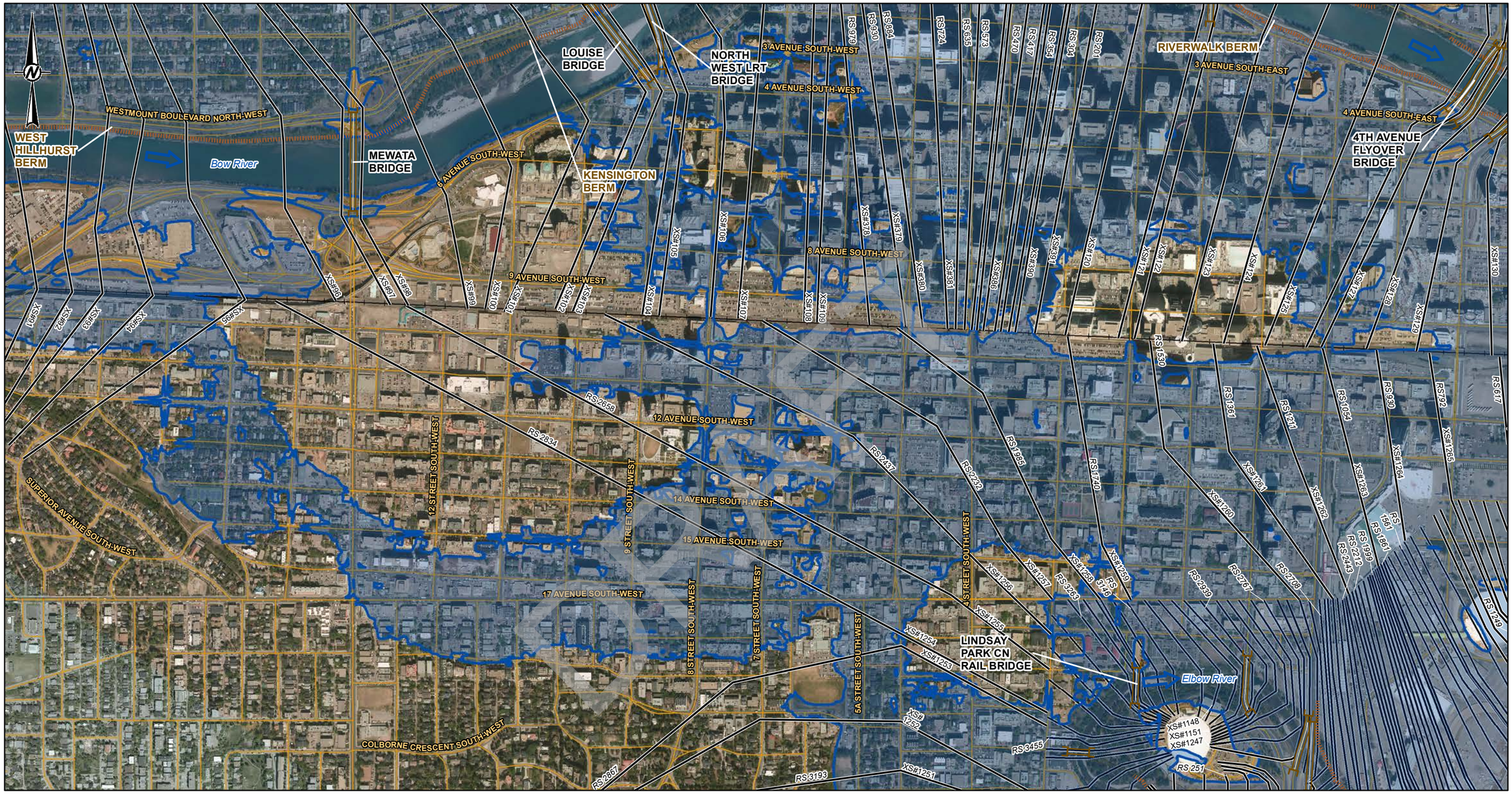
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_ 0750y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:19:06 PM

Classification: Public

SHEET 5 ↑



SHEET 33 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

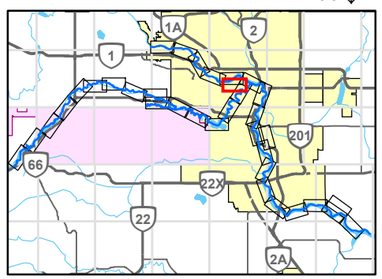
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

750-YEAR FLOOD INUNDATION EXTENT

- 750-YEAR FLOOD EXTENT
- 750-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4400 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 1930 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
750-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0759y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:20:35 PM

Classification: Public

1000-YEAR FLOOD INUNDATION EXTENT

Sheets 1-34

DRAFT

Classification: Public

SHEET 2 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

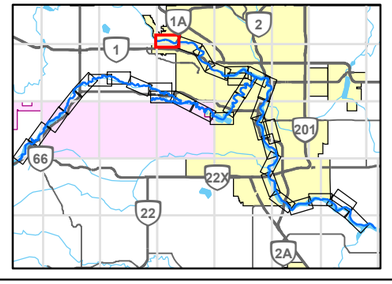
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	1 of 34

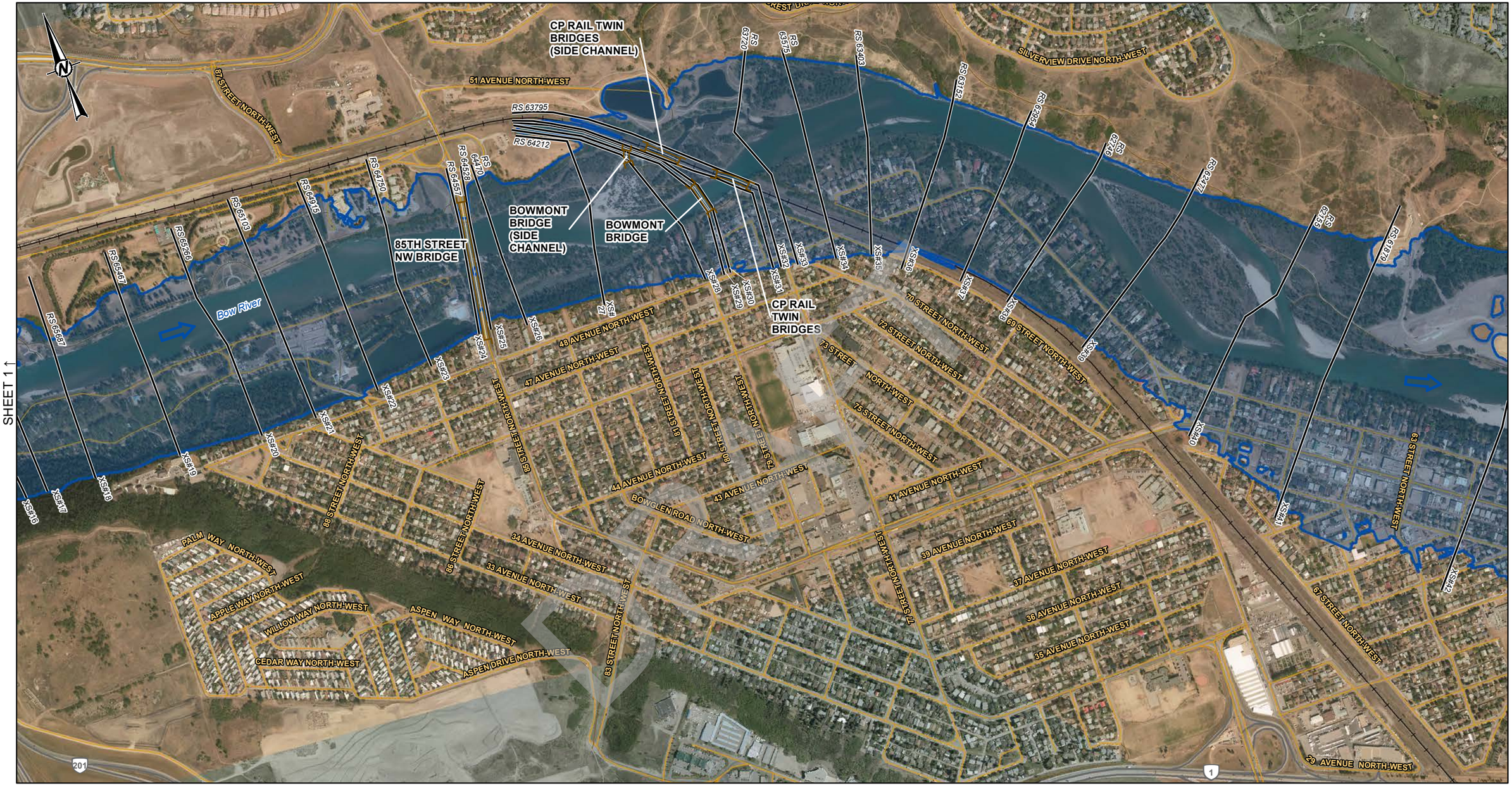
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:37:21 PM

Classification: Public



SHEET 1 ↑

SHEET 3 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

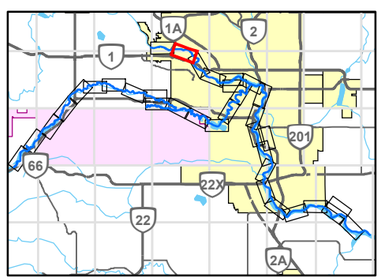
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	2 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Maps Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:38:37 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

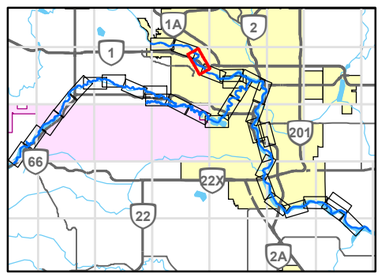
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	3 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01(00)-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:40:08 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

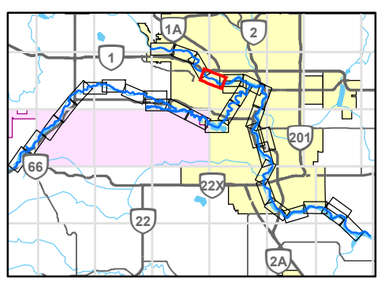
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

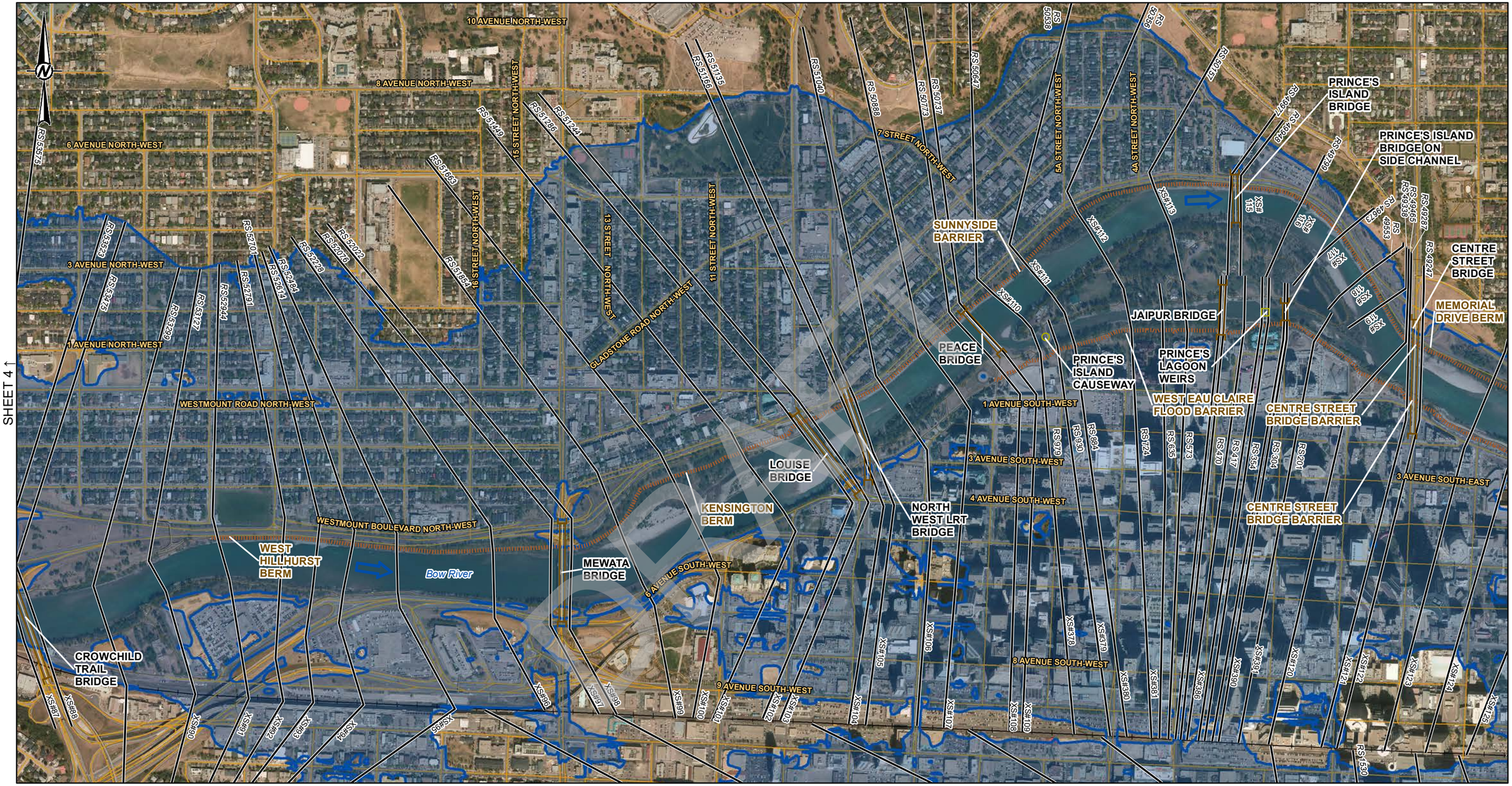
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	4 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:41:45 PM

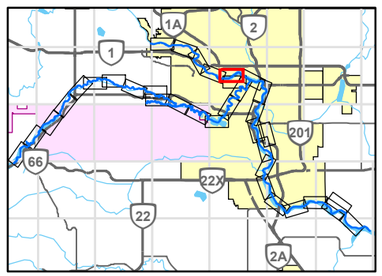
Classification: Public



SHEET 4 ↑

SHEET 6 ↓

SHEET 33 & 34 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	5 of 34

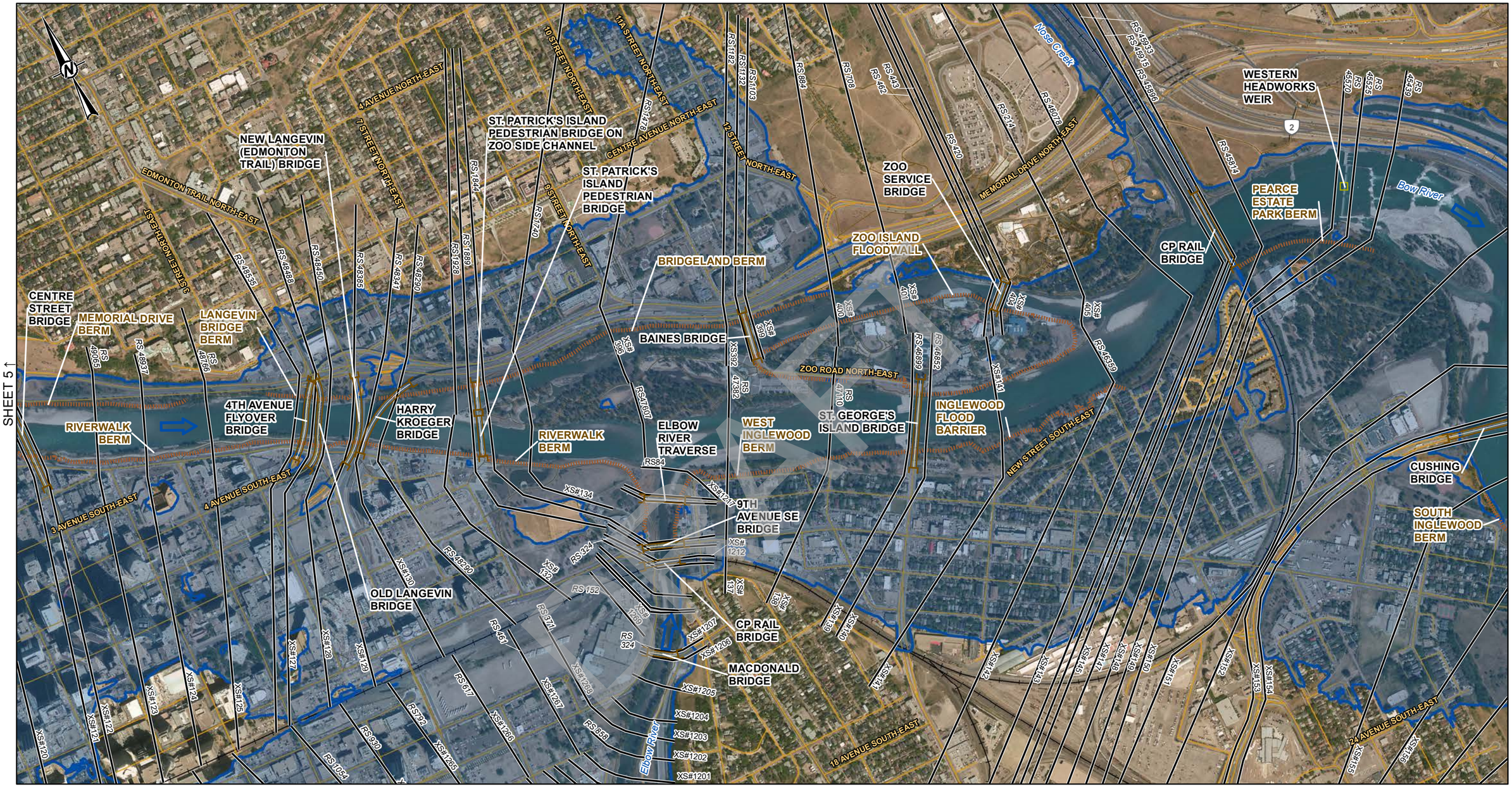
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:43:03 PM



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

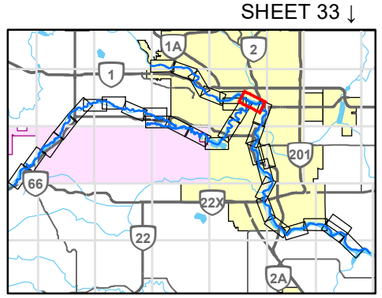
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 2150 M^3/S
BOW RIVER BELOW ELBOW RIVER = 5310 M^3/S
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S

SHEET 33 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	6 of 34

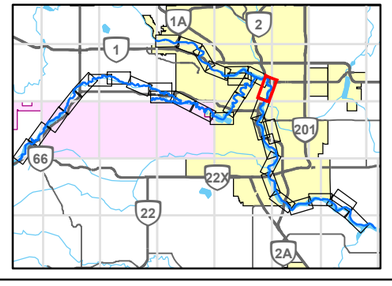
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100fy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:44:37 PM

Classification: Public

SHEET 8 ↓

SHEET 5 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

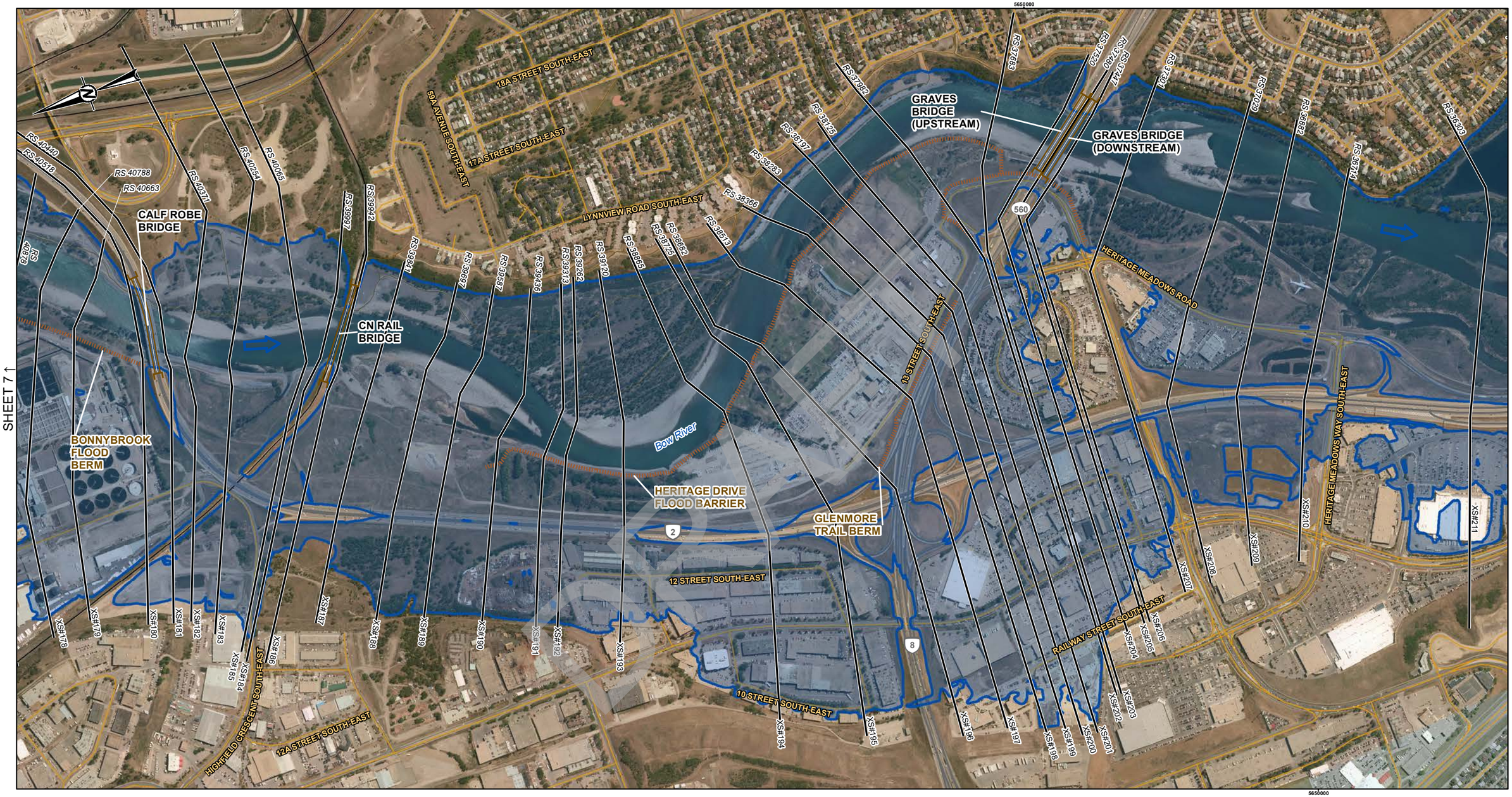
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	7 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:46:03 PM

Classification: Public



SHEET 7 ↑

SHEET 9 ↓

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

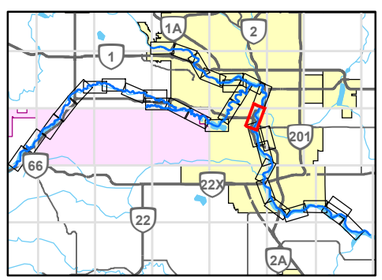
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	8 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:47:30 PM

Classification: Public

SHEET 9A ↑

SHEET 8 ↓

SHEET 10 ↓

5650000

5649000

560

GRAVES BRIDGE (UPSTREAM)

GRAVES BRIDGE (DOWNSTREAM)

ERIC HARVIE BRIDGE

IVOR STRONG BRIDGE

QUARRY PARK BERM

RIVERBEND DRIVE SOUTH-EAST

RIVERBROOK ROAD SOUTH-EAST

RIVERVALLEY DRIVE SOUTH-EAST

18 STREET SOUTH-EAST

RIVERVIEW CLOSE SOUTH-EAST

QUARRY DRIVE SOUTH-EAST

QUARRY WAY SOUTH-EAST

HERITAGE MEADOWS ROAD

HERITAGE MEADOWS WAY SOUTH-EAST

SOUTH LANDSDOWNE TRAIL EAST

Bow River

RS 37639
RS 37630
RS 37480
RS 37301
RS 37029
RS 36892
RS 36714
RS 36303
RS 36008
RS 35739
RS 35575
RS 35419
RS 35222
RS 35123
RS 34889
RS 34758
RS 34760
RS 34557

XS#210
XS#211
XS#212
XS#213
XS#214
XS#215
XS#216
XS#217
XS#218
XS#219
XS#220
XS#221
XS#222
XS#223
XS#224
XS#225
XS#226
XS#227
XS#228
XS#229
XS#230
XS#231
XS#232

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

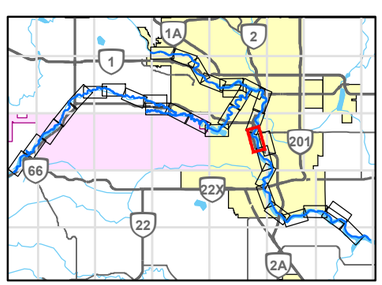
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:48:50 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

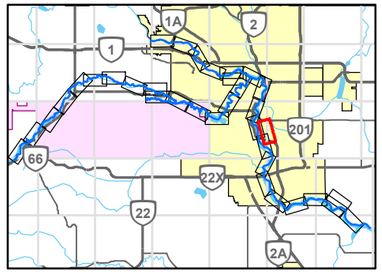
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S

SHEET 9 ↓



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	9A of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100yr-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:50:04 PM

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	10 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0103b-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:51:15 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

Classification: Public

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

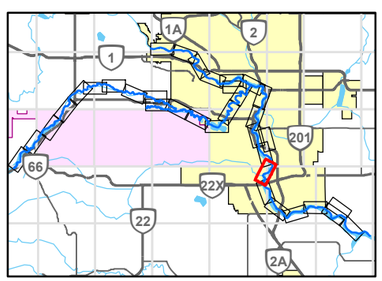
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW NOSE CREEK = 5370 M^3/S
BOW RIVER BELOW FISH CREEK = 6100 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	11 of 34

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:52:26 PM

Classification: Public

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

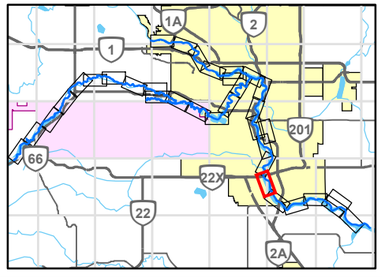
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 6100 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	12 of 34

© THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

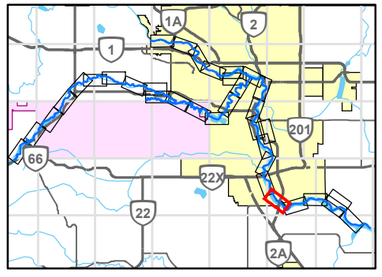
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW FISH CREEK = 6100 M^3/S
BOW RIVER BELOW PINE CREEK = 6180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	13 of 34

DRAFT

Classification: Public

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:54:51 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

DRAFT

SHEET 13 ↑

SHEET 15 ↓

RS 17496
RS 17226
RS 16920
RS 16702
RS 16136
RS 15672
RS 15472
RS 15202
RS 14936
RS 14680
RS 14372
RS 14047
RS 13661
RS 13385
RS 13036
RS 12653

XS#303
XS#304
XS#305
XS#306
XS#307
XS#308
XS#309
XS#310
XS#311
XS#312
XS#313
XS#314

Bow River

BOW RIVER BOTTOM TRAIL EAST
232 AVENUE EAST
230 AVENUE EAST

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

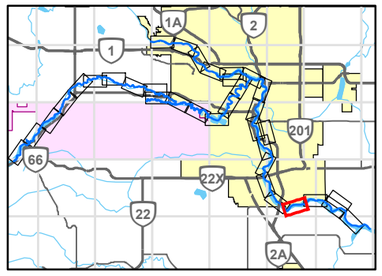
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 6180 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	14 of 34

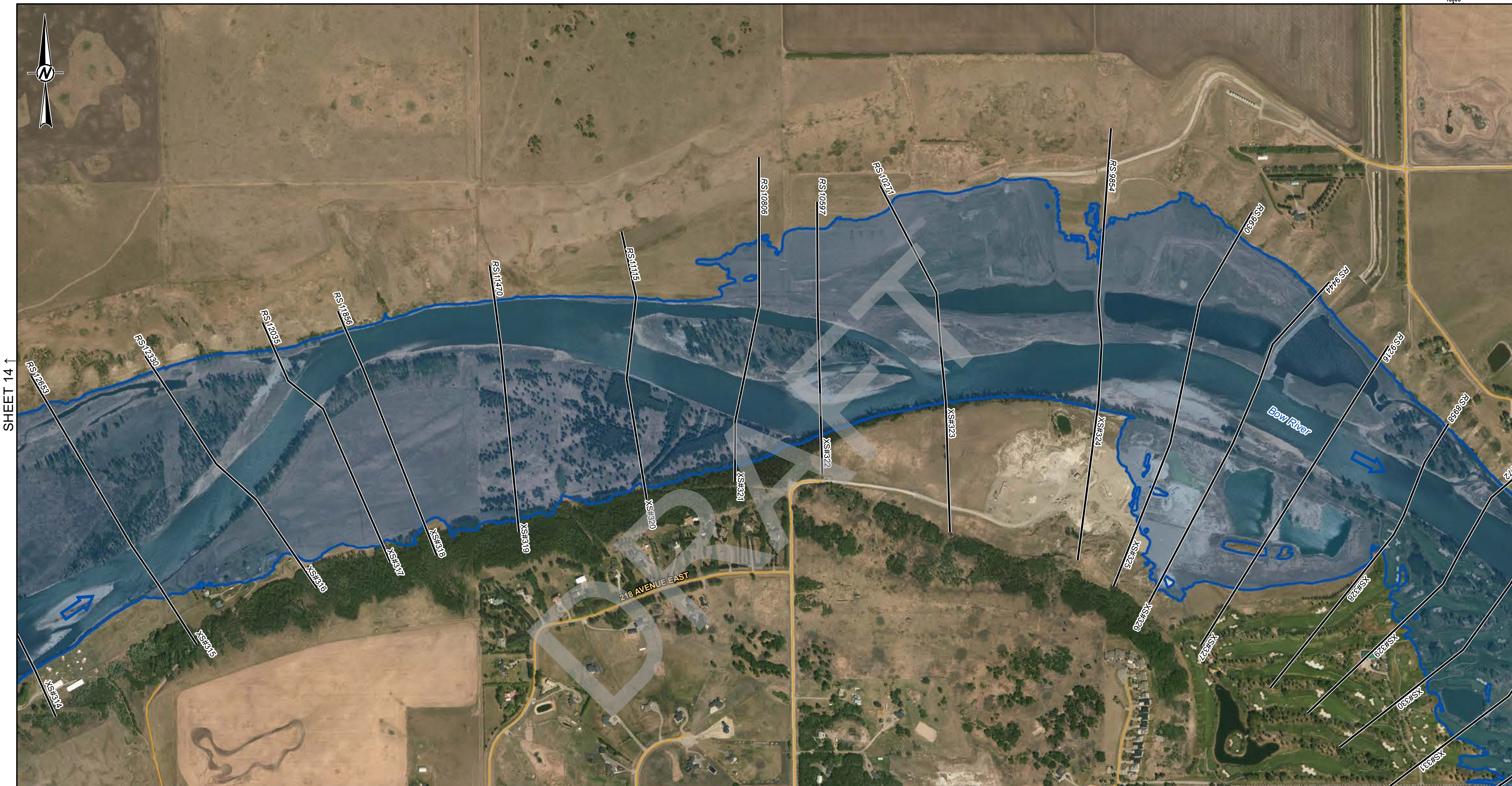
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:55:56 PM

Classification: Public



LEGEND

(line)	CROSS SECTION
XS#100	CROSS SECTION NUMBER
RS 304	RIVER STATION (M)
(dashed)	STUDY BOUNDARY
(arrow)	FLOW DIRECTION
(line)	LOCAL ROAD
(line)	PATHWAY
(line)	PRIMARY HIGHWAY
(line)	SECONDARY HIGHWAY
(line)	RAILWAY
(line)	FLOOD CONTROL STRUCTURE

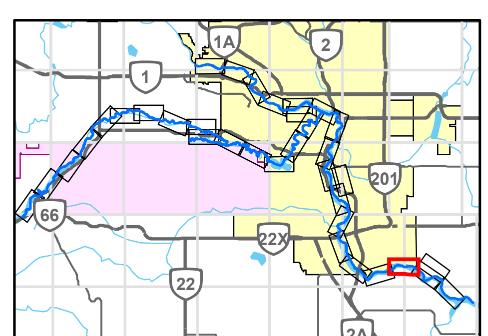
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER BELOW PINE CREEK = 6180 M^3/S
BOW RIVER ABOVE HIGHWOOD RIVER = 6260 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	15 of 34

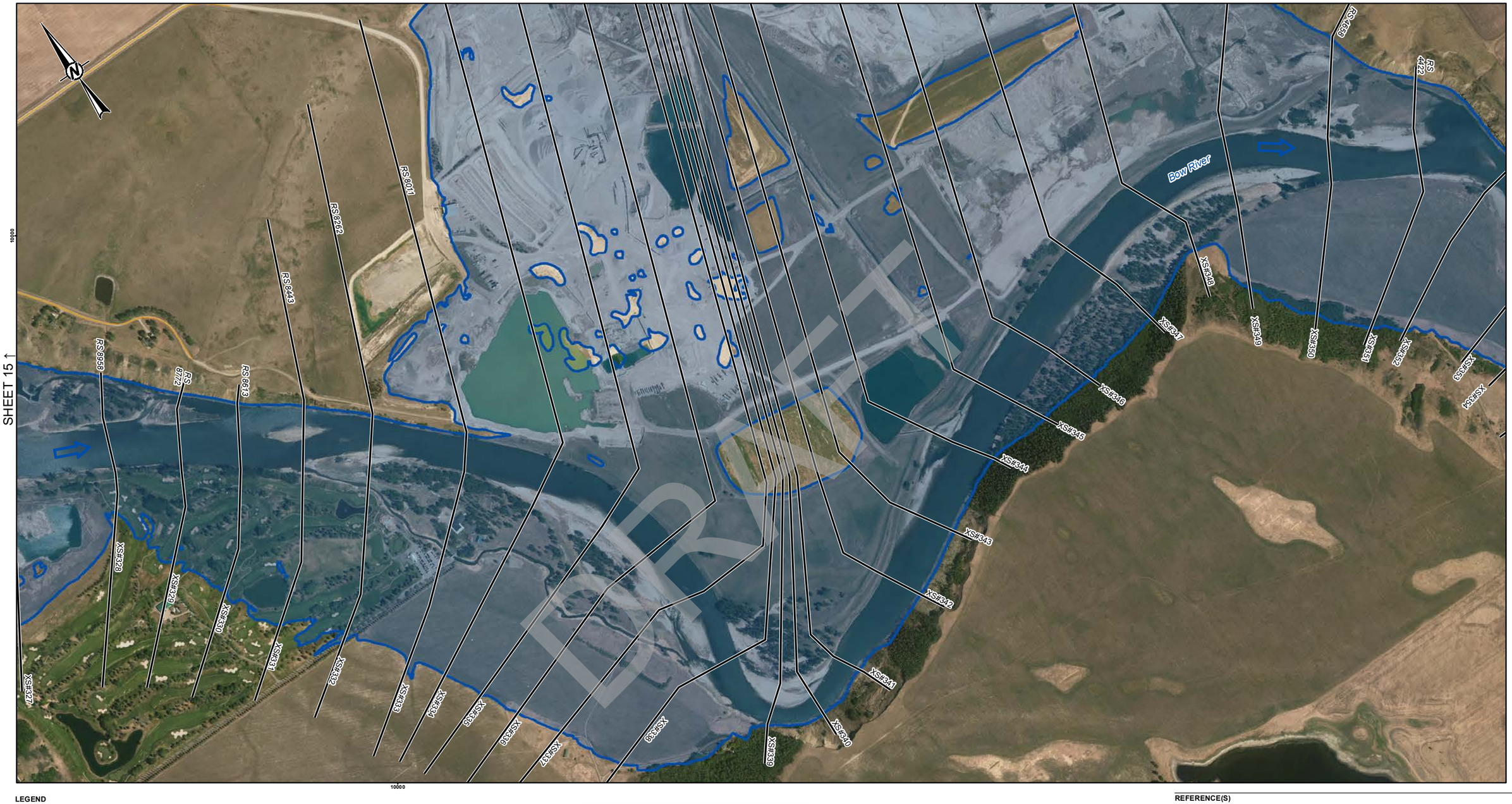
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Classification: Public

SHEET 17 ↑

SHEET 15 ↑

SHEET 18 ↓



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

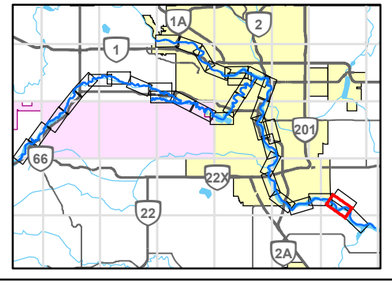
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 6260 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	16 of 34

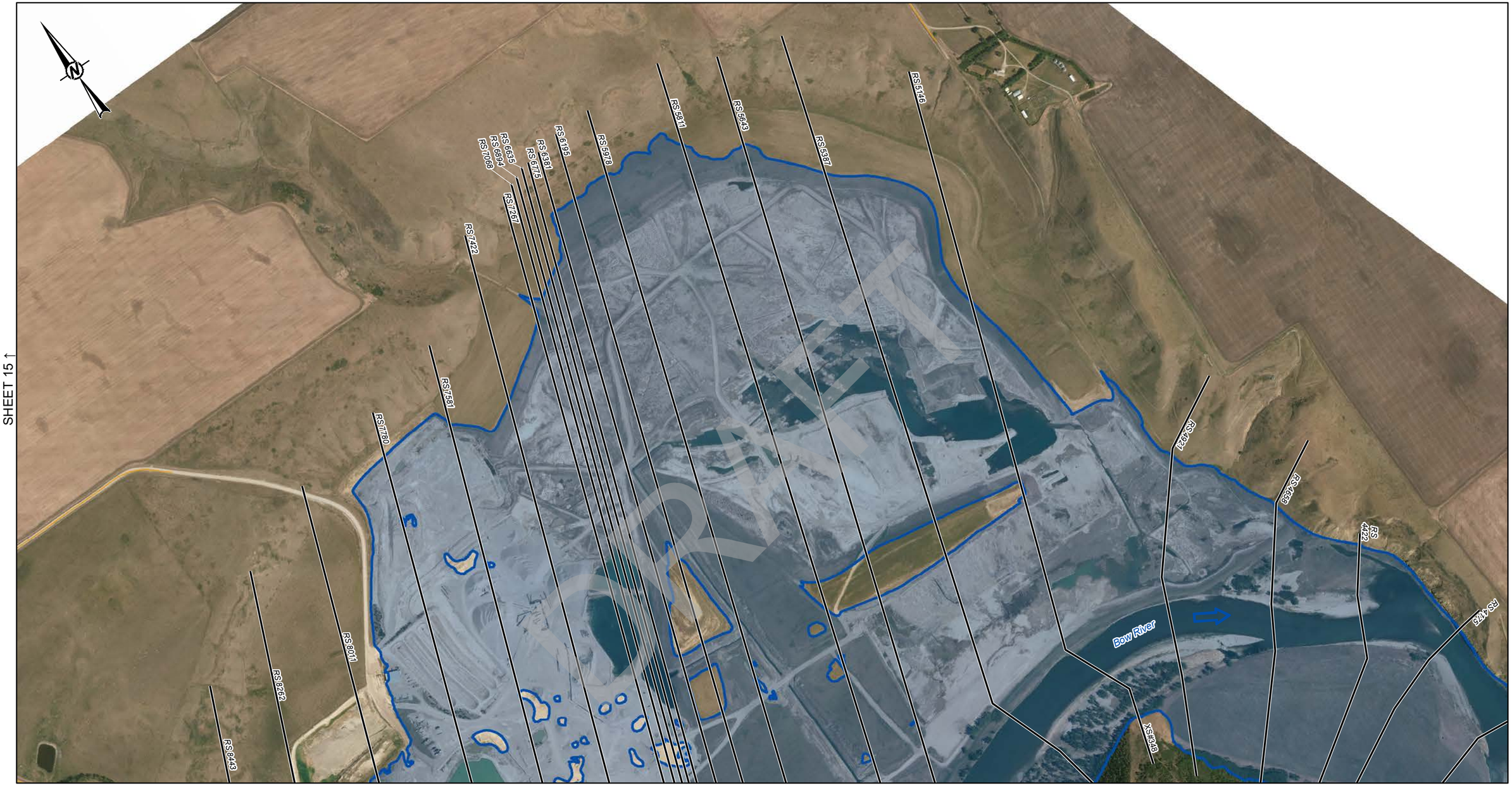
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:58:00 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

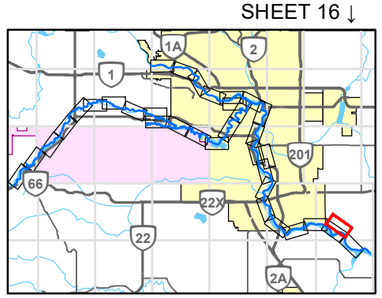
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 6260 M^3/S

SHEET 16 ↓



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	17 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 3:59:03 PM

Classification: Public

LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

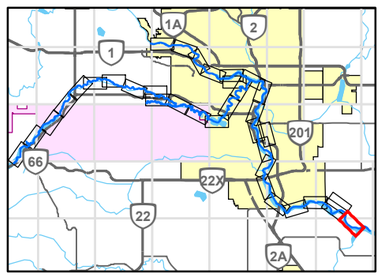
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE HIGHWOOD RIVER = 6260 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	18 of 34

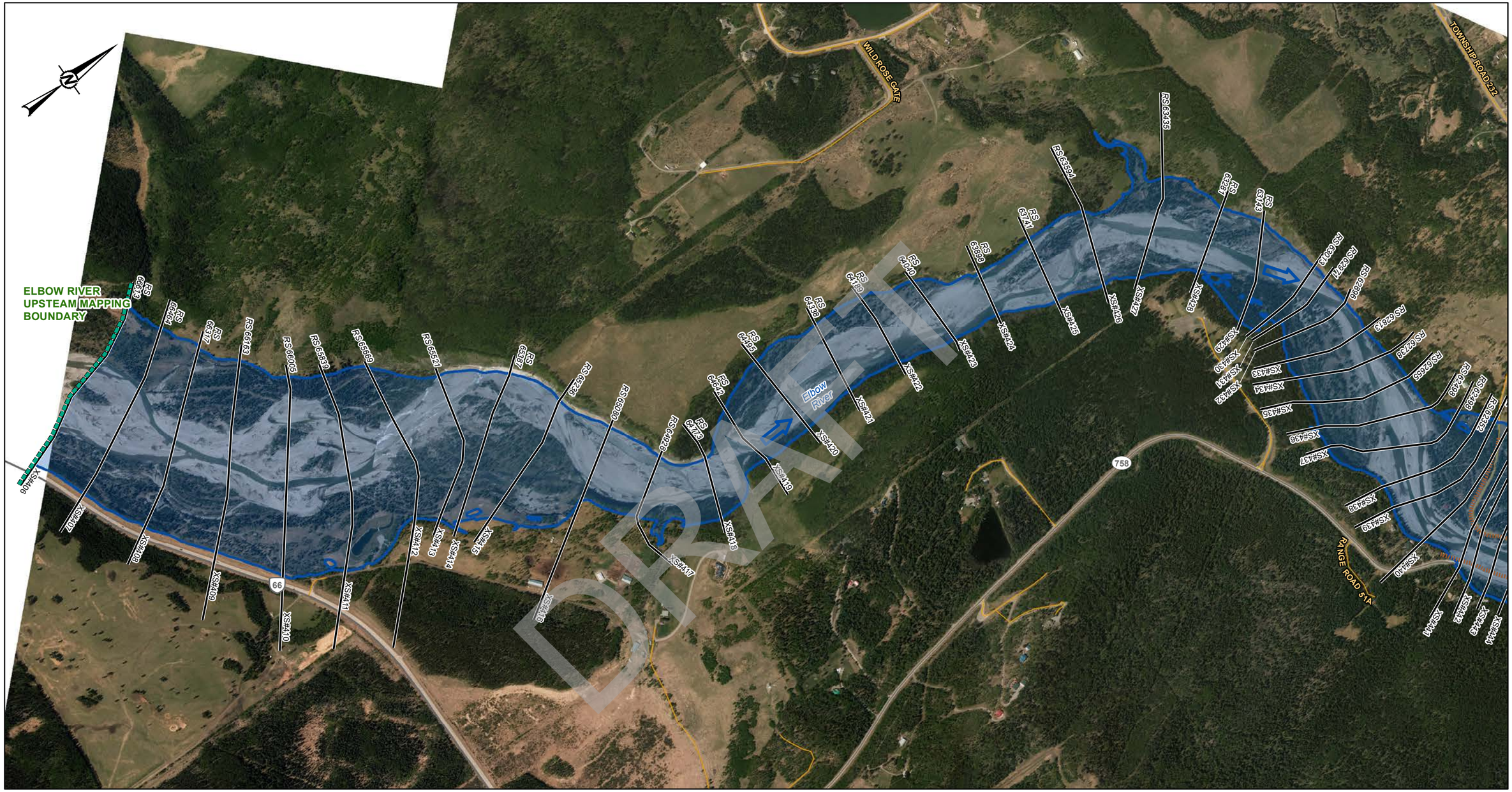
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:00:08 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

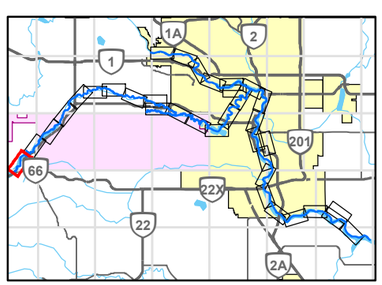
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	19 of 34

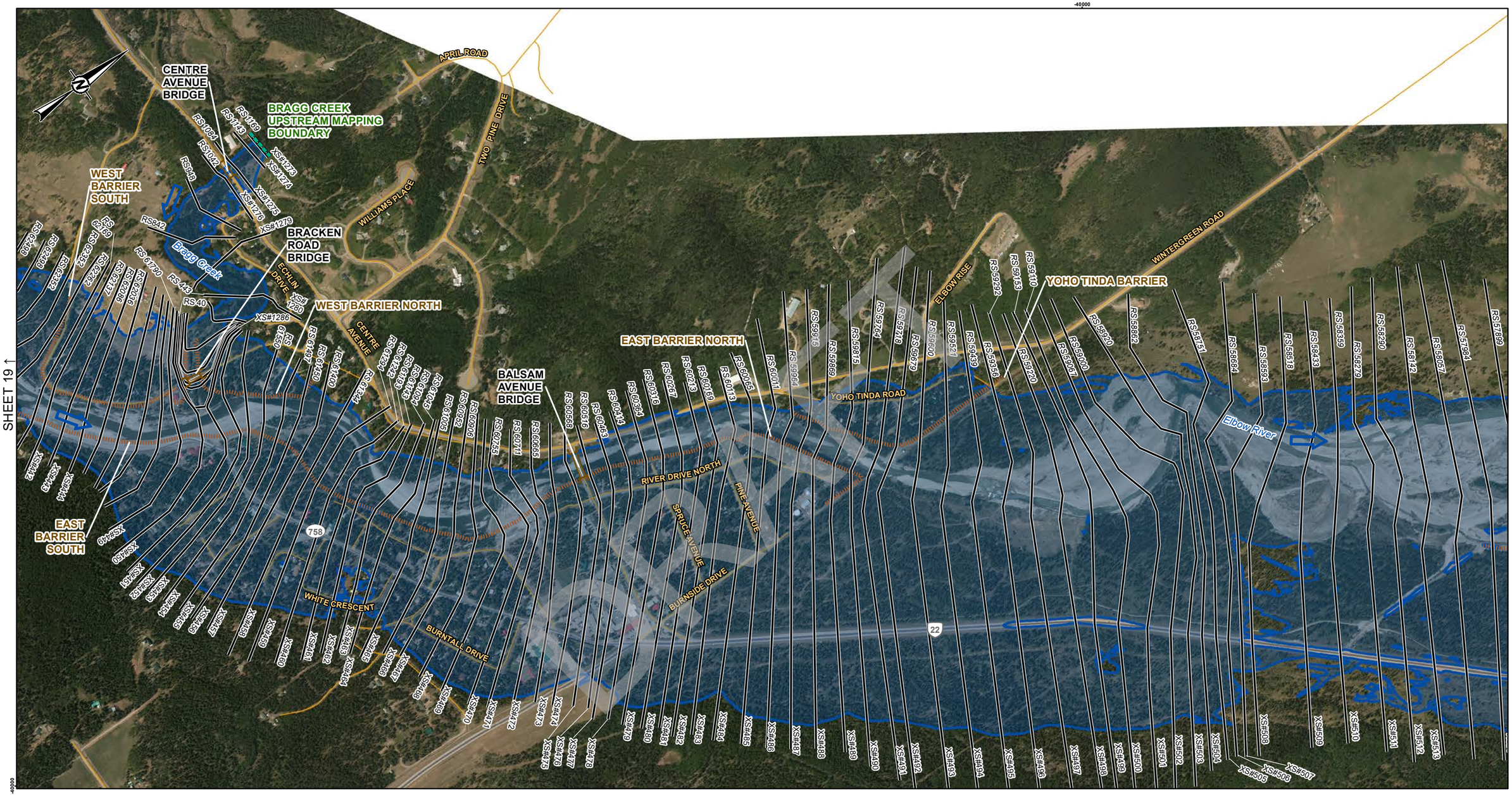
SHEET 20 →

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_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:01:12 PM

Classification: Public



LEGEND

- CROSS SECTION
- *XS#100* CROSS SECTION NUMBER
- *RS 304* RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

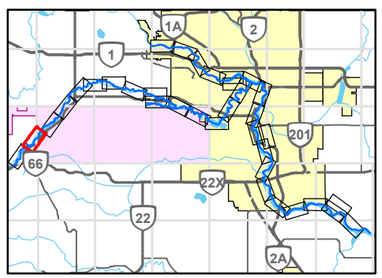
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S
BRAGG CREEK = 103 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

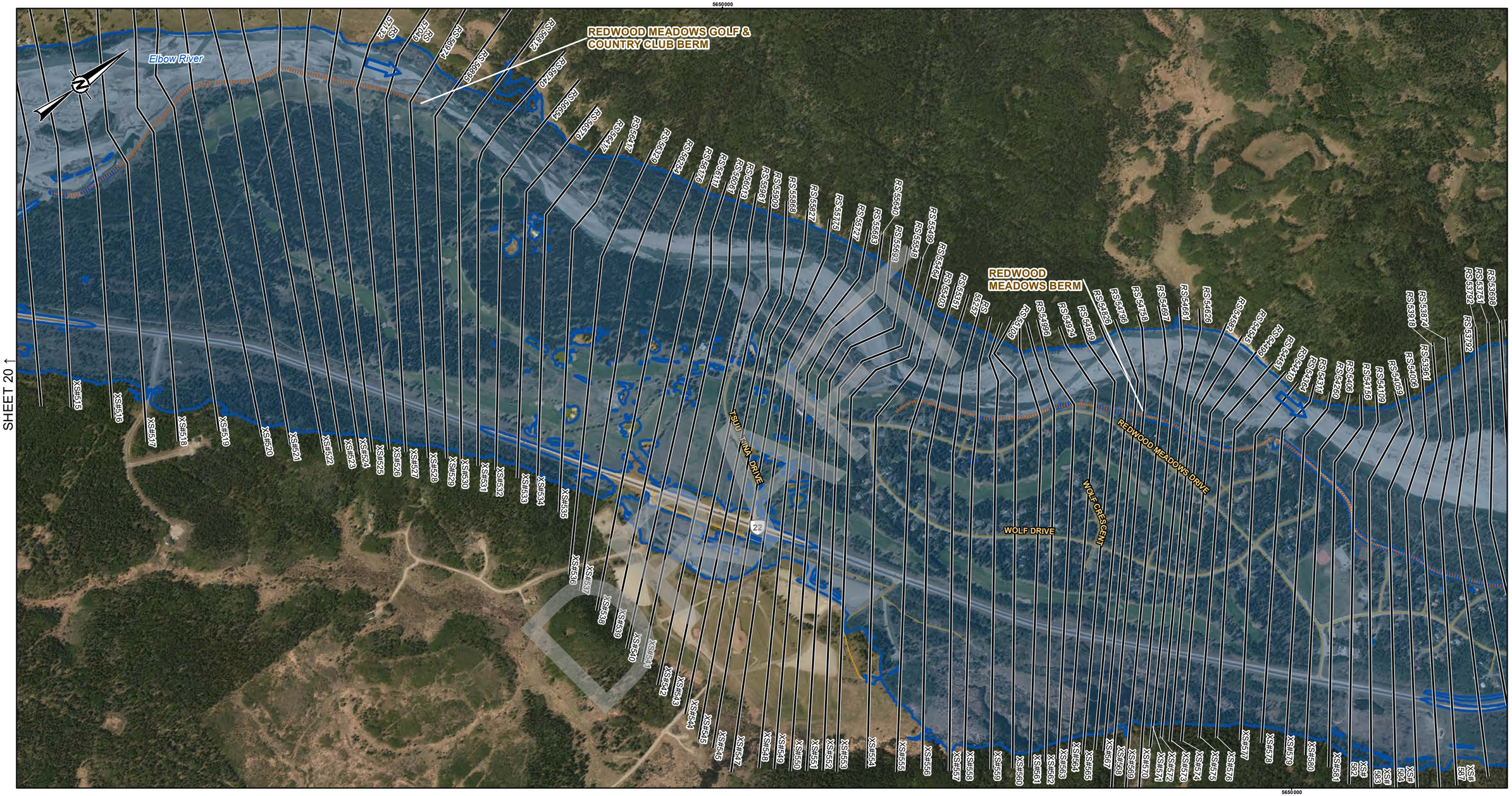
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	20 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:02:04 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

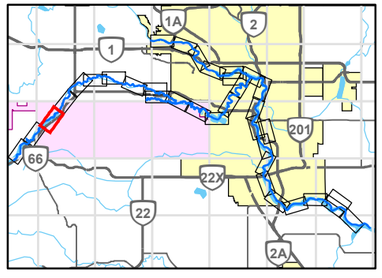
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS
Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	21 of 34

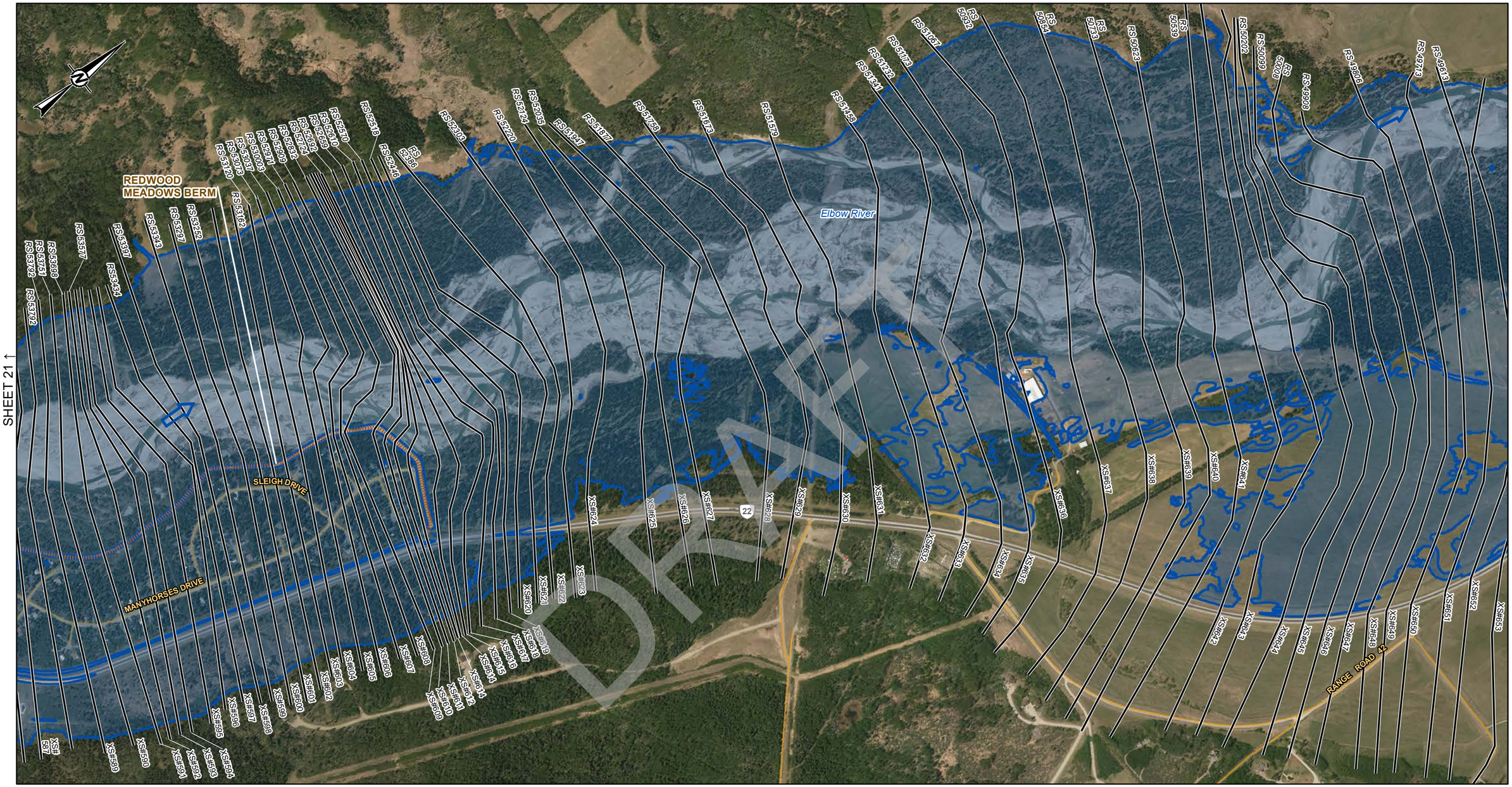
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:02:55 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

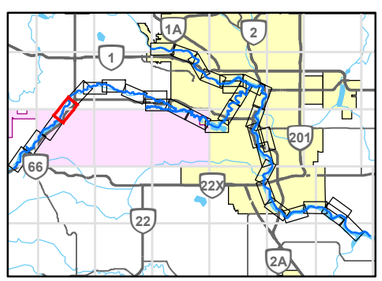
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

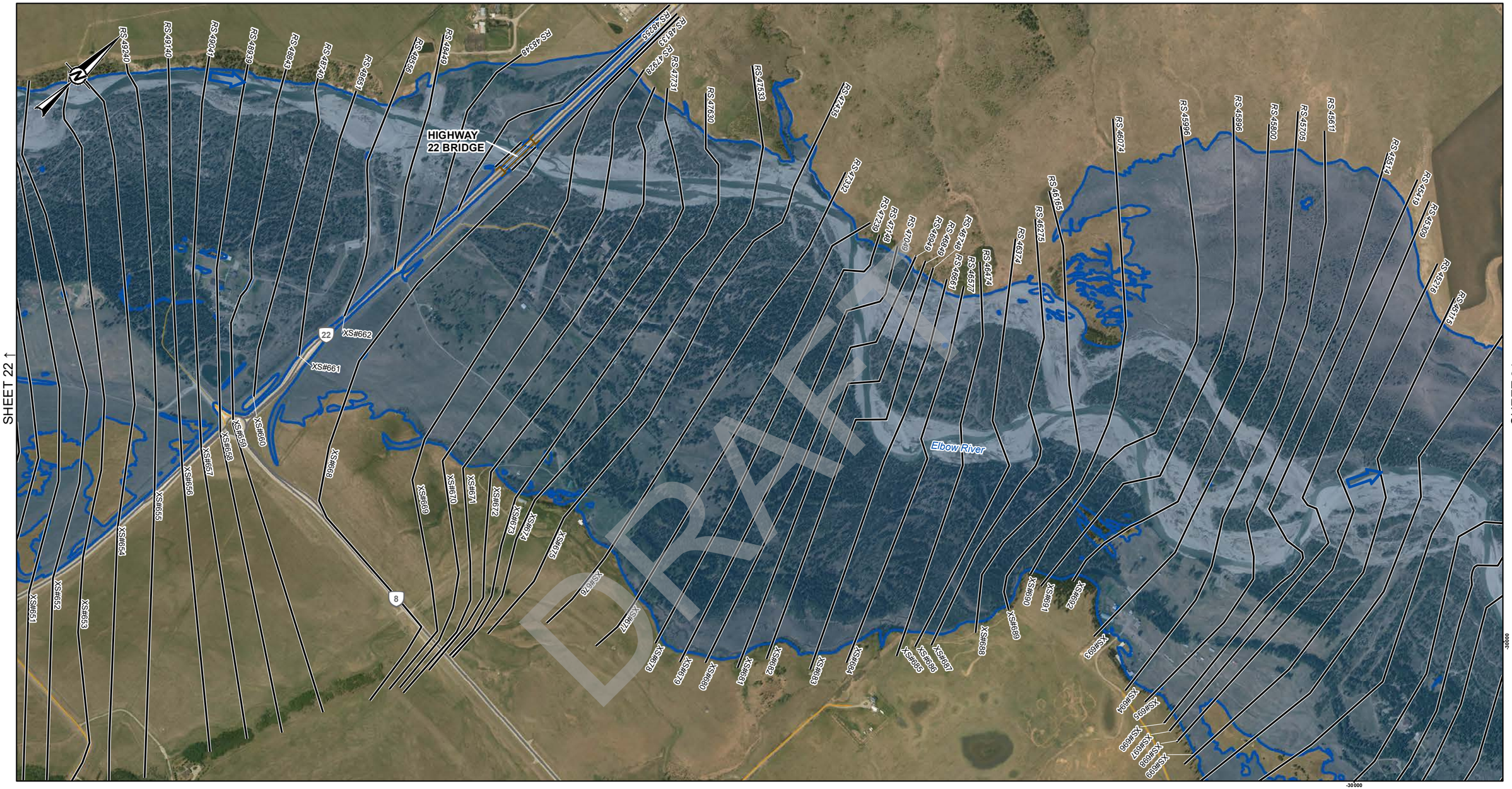
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	22 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100dy-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:03:45 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

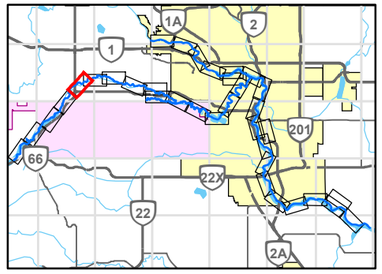
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	23 of 34

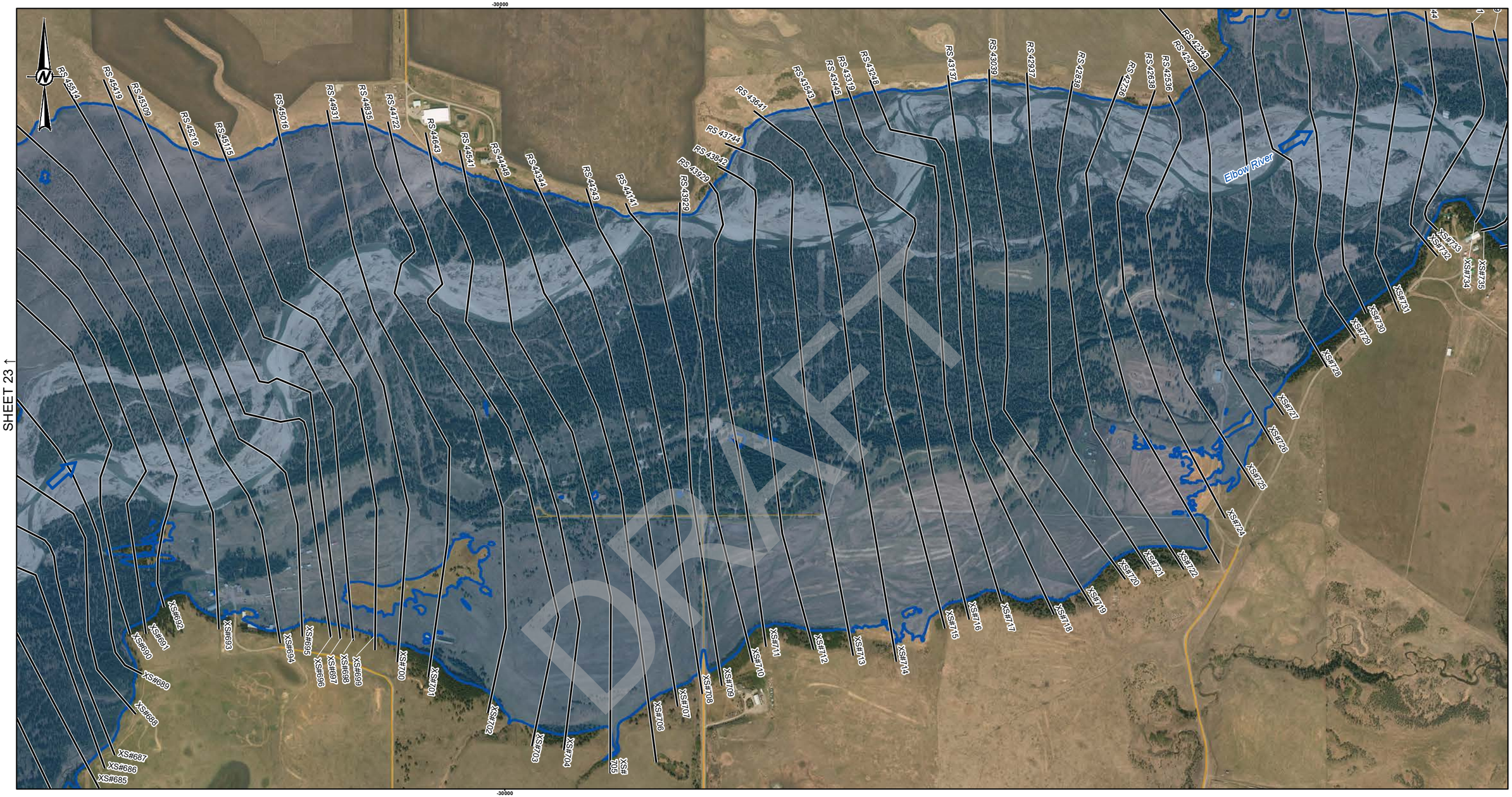
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:04:32 PM

DRAFT

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

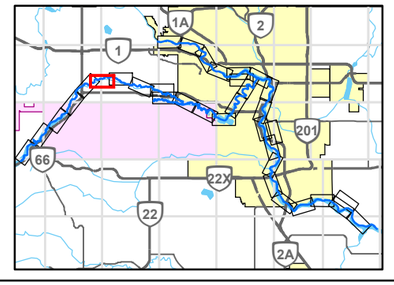
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

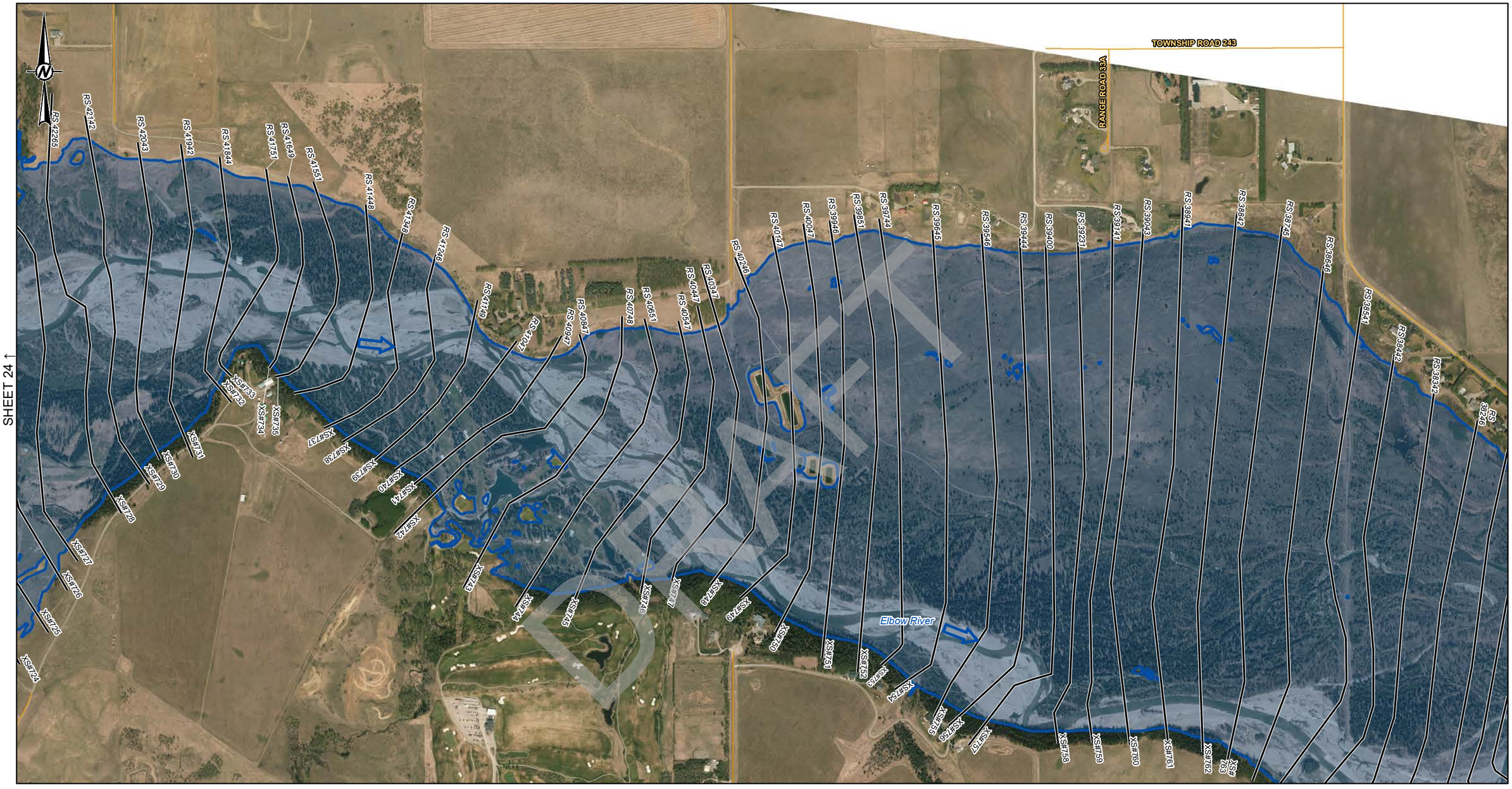
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	24 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01f00y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:05:06 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

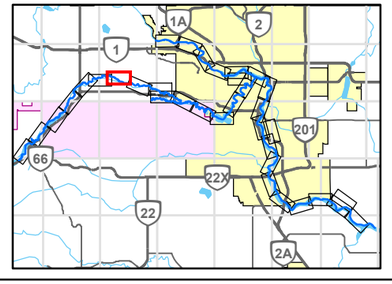
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	25 of 34

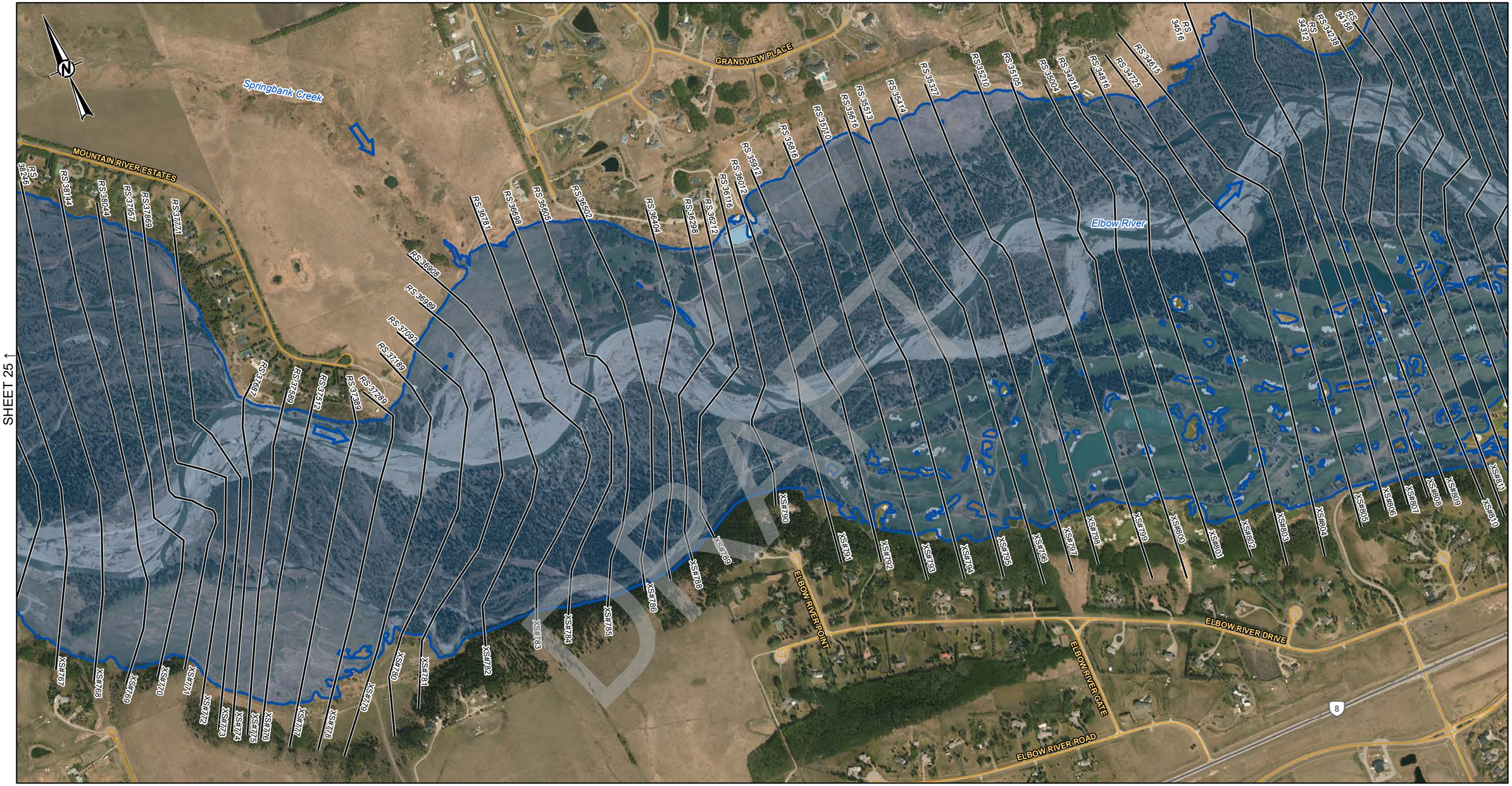
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

0 25mm

DRAFT

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:05:37 PM

Classification: Public



SHEET 25 ↑

SHEET 27 ↓

DRAFT

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

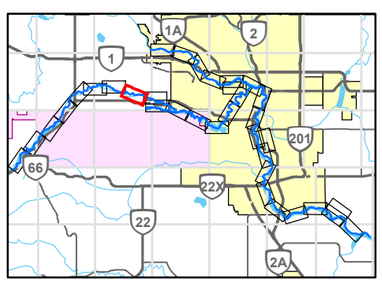
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER ABOVE SPRINGBANK CREEK = 2150 M^3/S
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	26 of 34

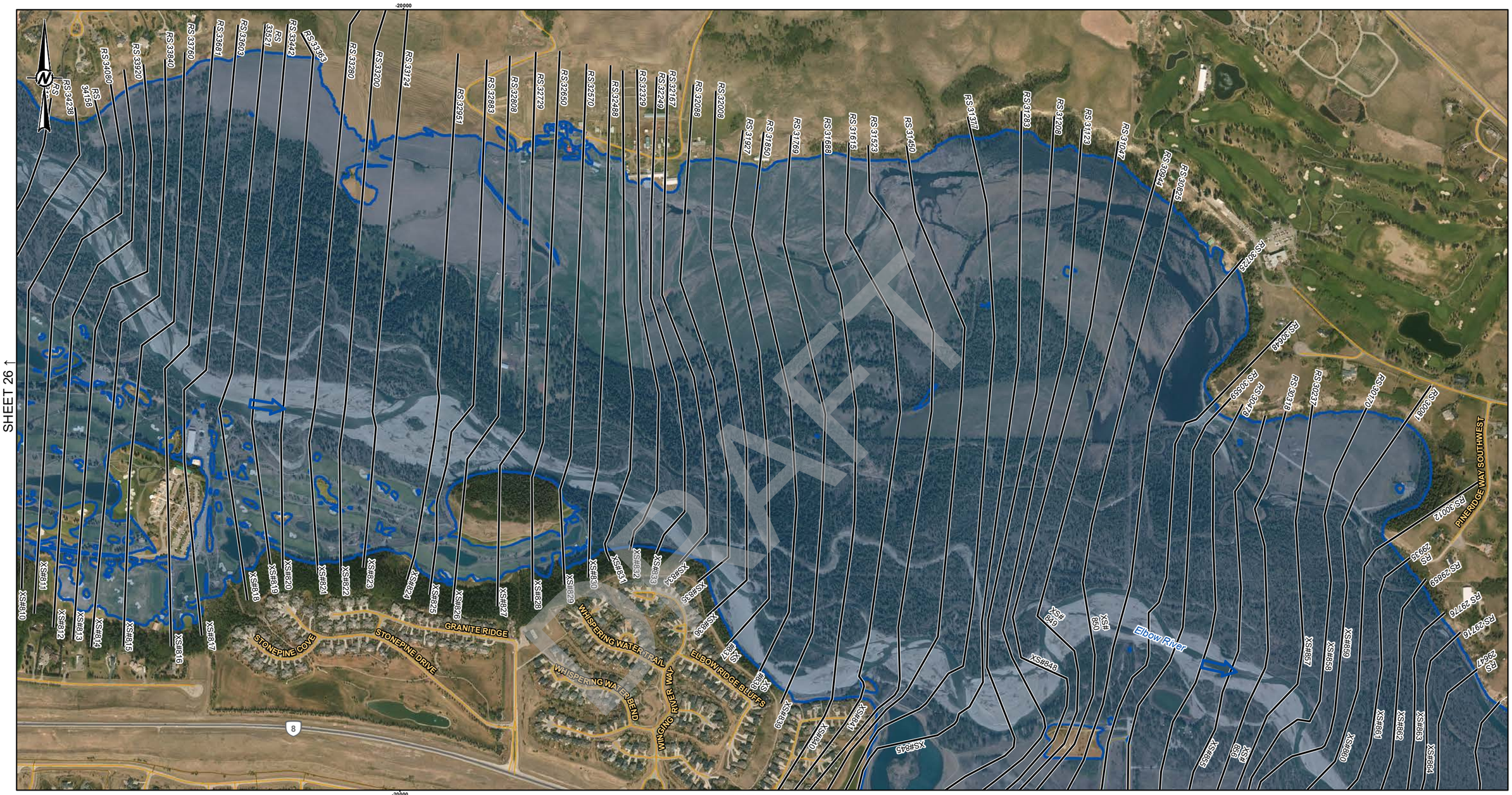
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100By-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:06:24 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

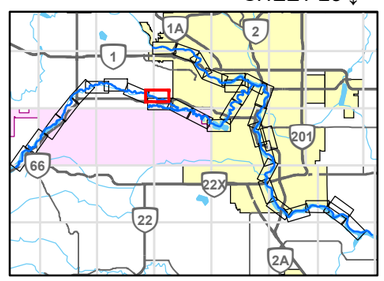
- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S
LOTT CREEK = 55.2 M^3/S

SHEET 28 ↓



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	27 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

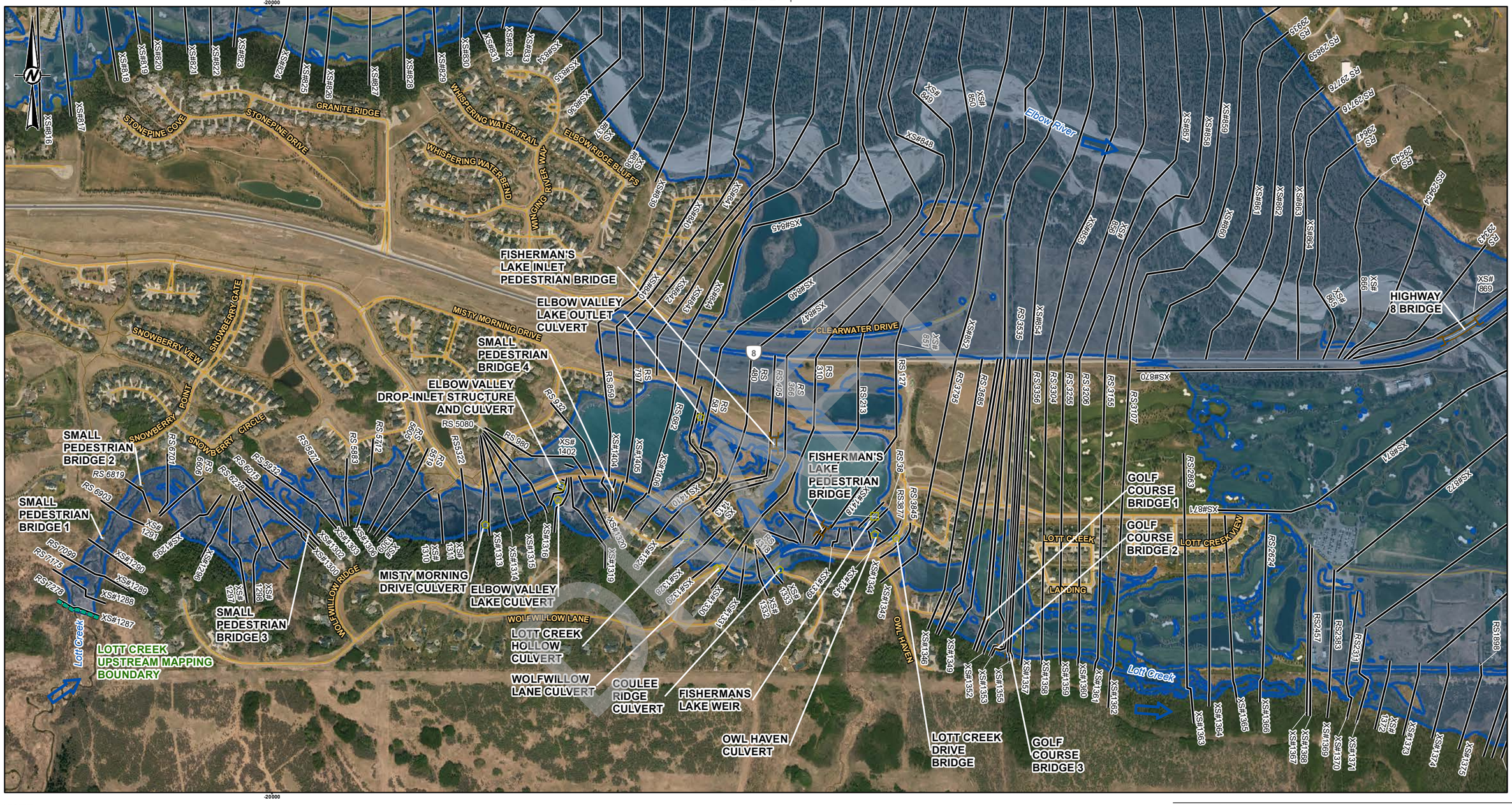
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100yr-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:07:39 PM

Classification: Public

SHEET 27 ↑

SHEET 29 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

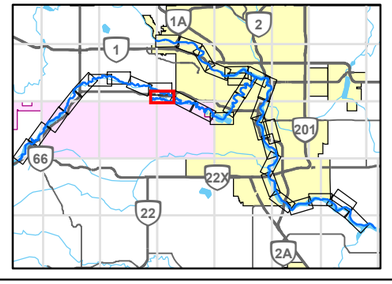
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S
LOTT CREEK = 55.2 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	28 of 34

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_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01f030y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:08:59 PM
Classification: Public

LEGEND

(line)	CROSS SECTION
XS#100	CROSS SECTION NUMBER
RS 304	RIVER STATION (M)
(symbol)	STUDY BOUNDARY
(arrow)	FLOW DIRECTION
(line)	LOCAL ROAD
(line)	PATHWAY
(line)	PRIMARY HIGHWAY
(line)	SECONDARY HIGHWAY
(line)	RAILWAY
(symbol)	FLOOD CONTROL STRUCTURE

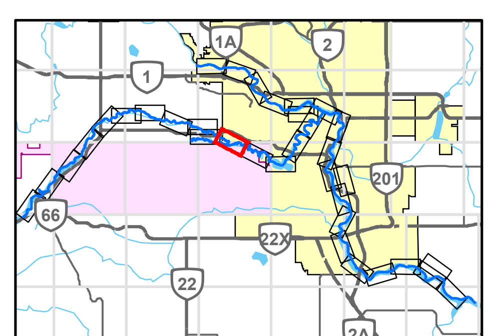
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S
LOTT CREEK = 55.2 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

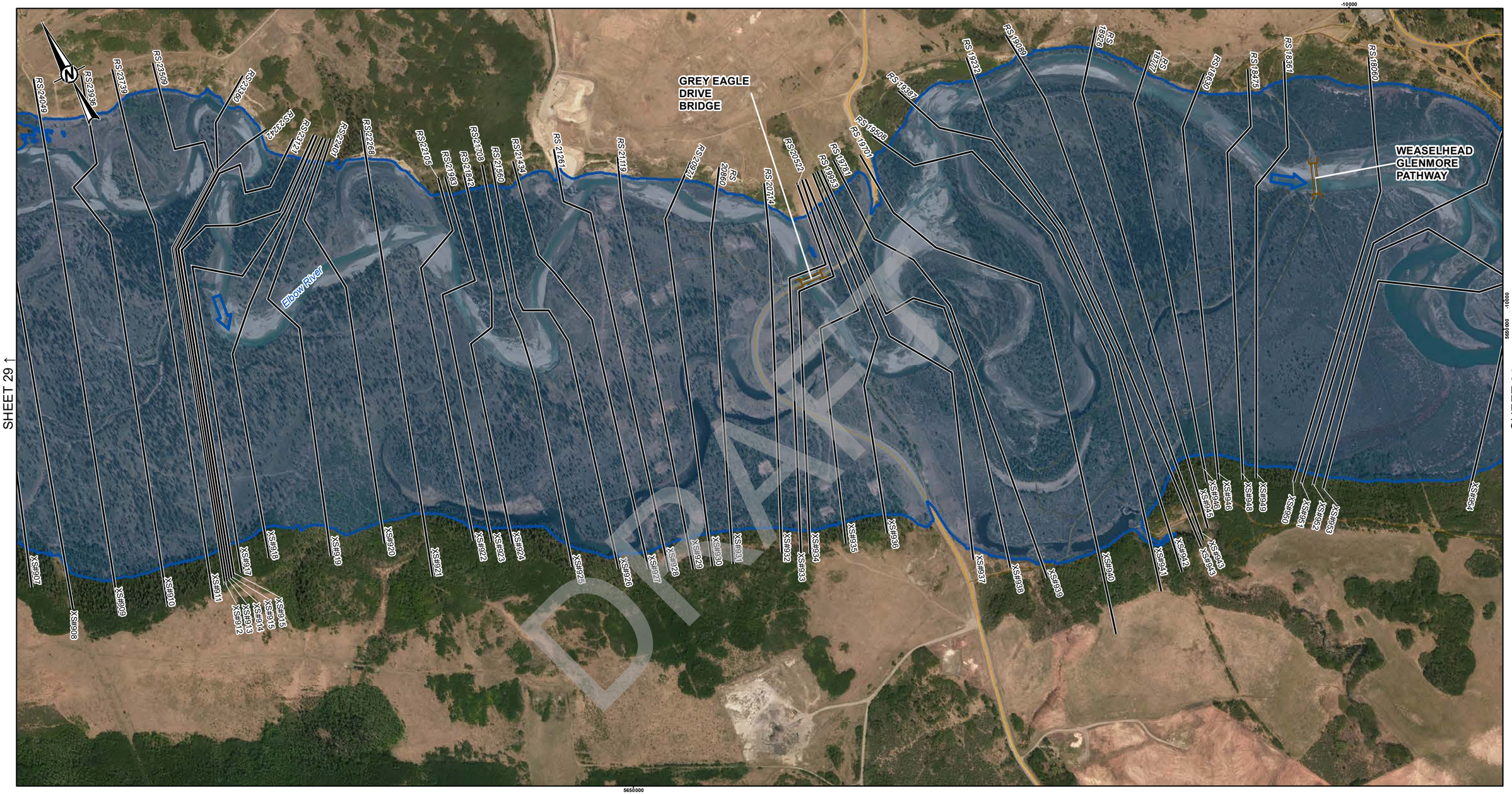
TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	29 of 34

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:10:36 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25mm
0

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

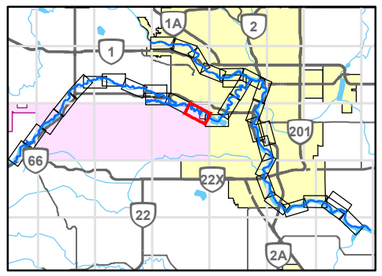
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

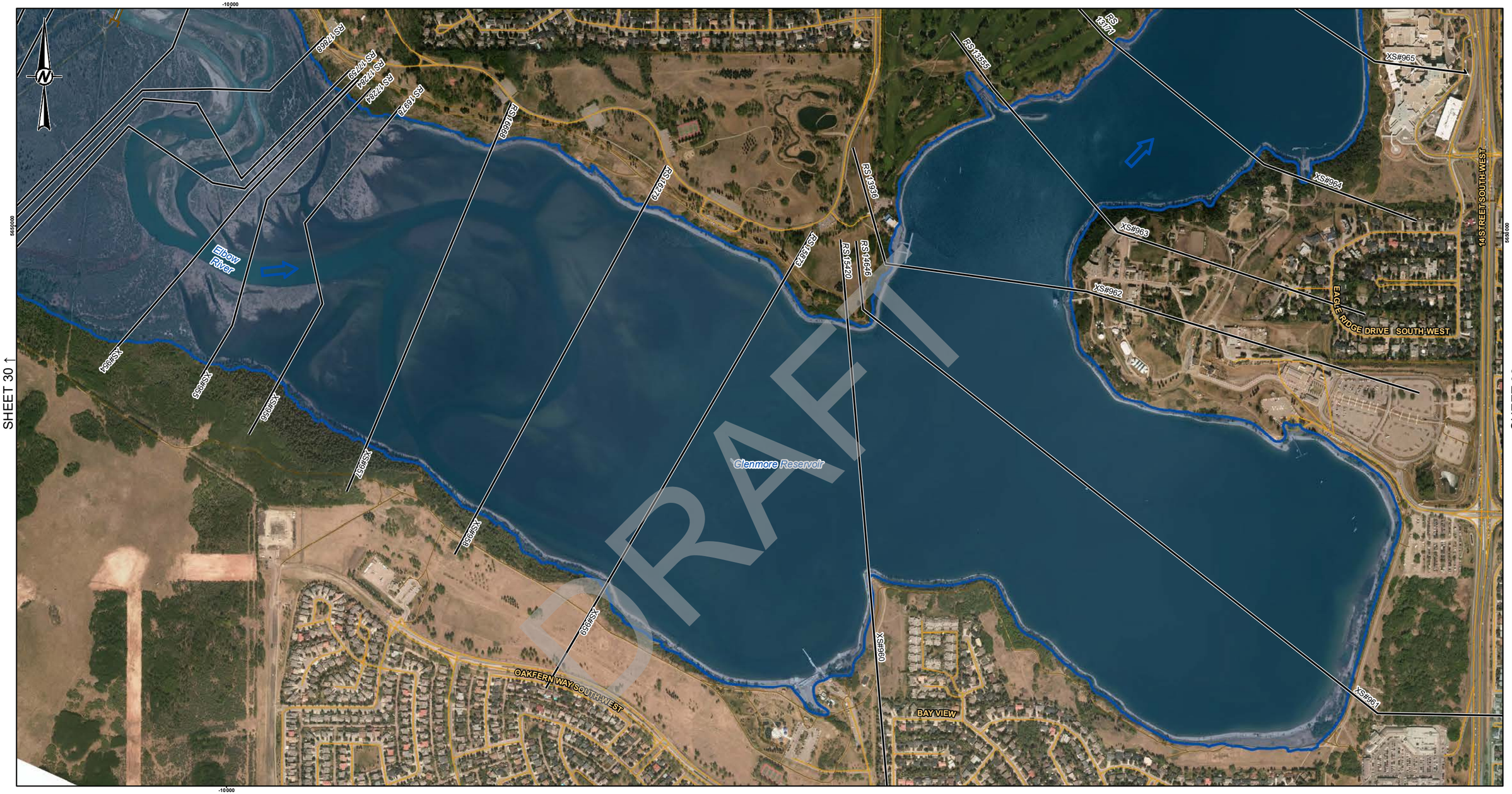
PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	30 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:12:11 PM

Classification: Public



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

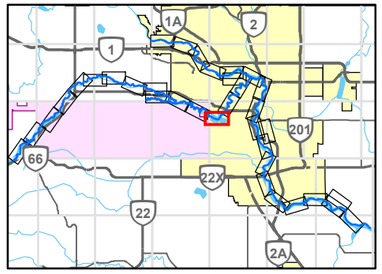
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW SPRINGBANK CREEK = 2150 M^3/S



0 200 400
1:10,000 METRES

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	31 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

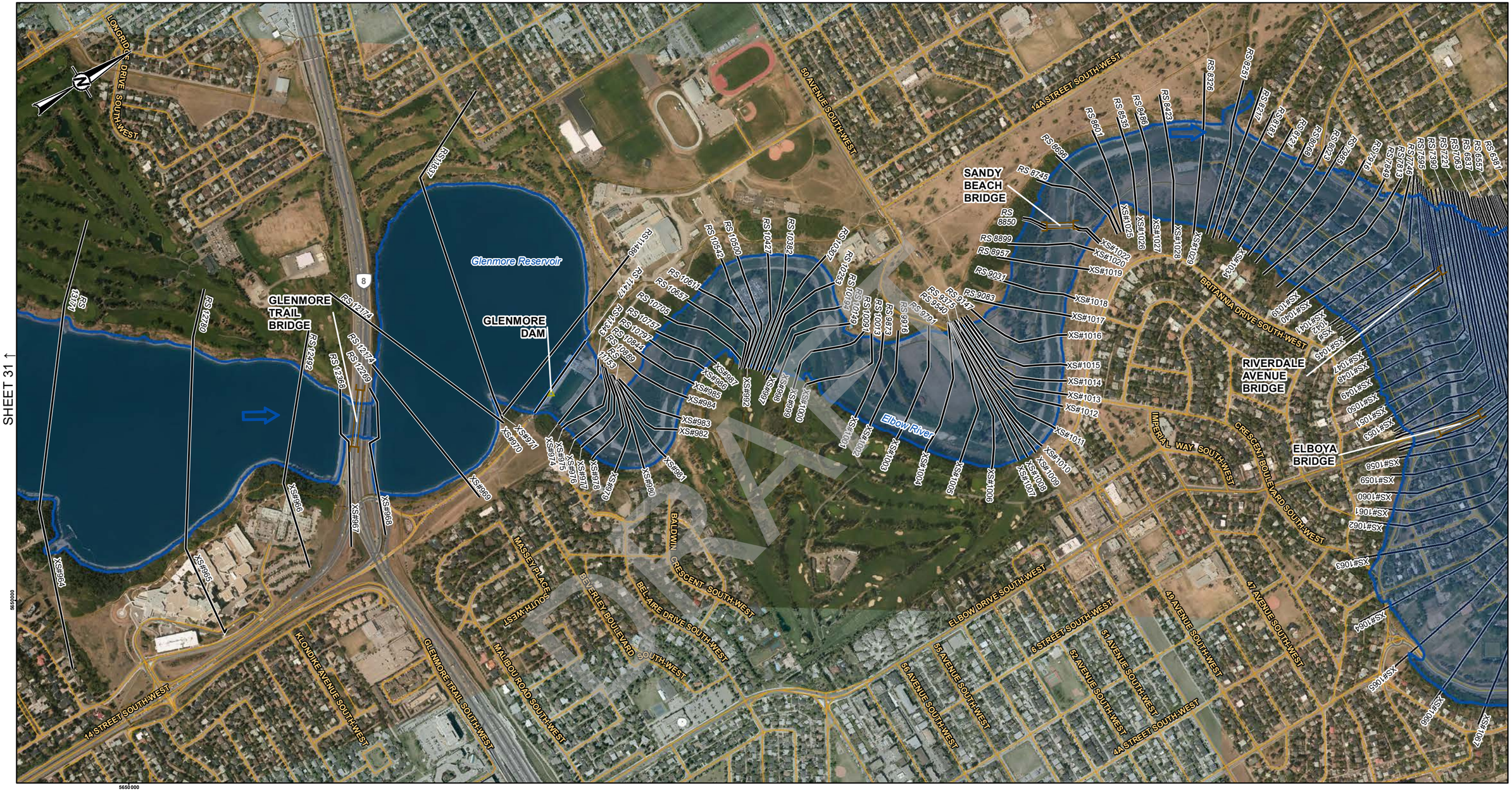
0 25mm

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_ElbowMapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_01000y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:13:28 PM

Classification: Public

SHEET 31 ↑

SHEET 33 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

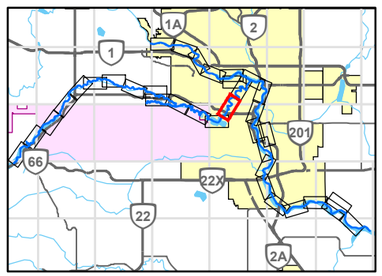
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
ELBOW RIVER BELOW GLENMORE DAM = 2150 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	32 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

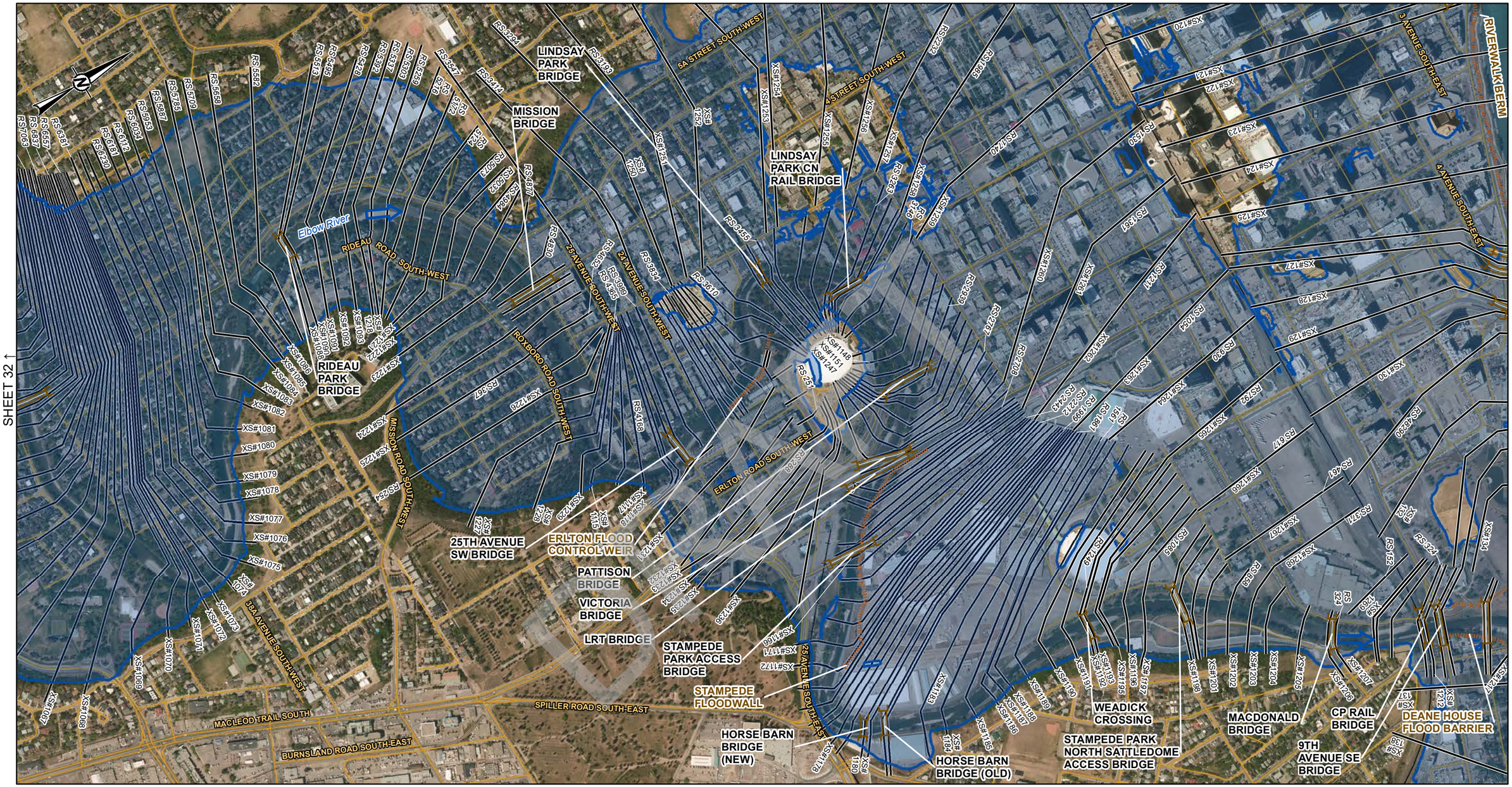
PATH: I:\CLIENT\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:15:01 PM

Classification: Public

SHEET 34 ↑

SHEET 32 ↑

SHEET 9 ↓



LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

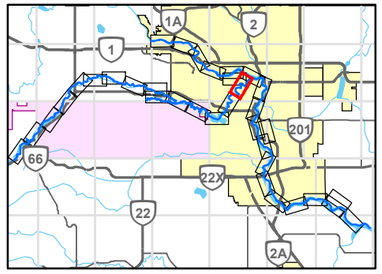
HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 2150 M^3/S
BOW RIVER BELOW ELBOW RIVER = 5310 M^3/S



0 200 400
1:10,000 METRES

REFERENCE(S)

ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	33 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:16:27 PM

Classification: Public

SHEET 5 ↑

SHEET 33 ↓

WEST HILLHURST BERM
WESTMOUNT BOULEVARD NORTH-WEST
Bow River
MEWATA BRIDGE
6 AVENUE SOUTH-WEST
LOUISE BRIDGE
KENSINGTON BERM
NORTH WEST LRT BRIDGE
3 AVENUE SOUTH-WEST
4 AVENUE SOUTH-WEST
RIVERWALK BERM
3 AVENUE SOUTH-EAST
4 AVENUE SOUTH-EAST
4TH AVENUE FLYOVER BRIDGE
8 AVENUE SOUTH-WEST
9 AVENUE SOUTH-WEST
12 AVENUE SOUTH-WEST
14 AVENUE SOUTH-WEST
15 AVENUE SOUTH-WEST
17 AVENUE SOUTH-WEST
SUPERIOR AVENUE SOUTH-WEST
COLBORNE CRESCENT SOUTH-WEST
12 STREET SOUTH-WEST
9 STREET SOUTH-WEST
8 STREET SOUTH-WEST
7 STREET SOUTH-WEST
5A STREET SOUTH-WEST
4 STREET SOUTH-WEST
LINDSAY PARK CN RAIL BRIDGE
Elbow River

LEGEND

- CROSS SECTION
- XS#100 CROSS SECTION NUMBER
- RS 304 RIVER STATION (M)
- STUDY BOUNDARY
- FLOW DIRECTION
- LOCAL ROAD
- PATHWAY
- PRIMARY HIGHWAY
- SECONDARY HIGHWAY
- RAILWAY
- FLOOD CONTROL STRUCTURE

HYDRAULIC STRUCTURES

- CULVERT
- DAM
- OTHER
- WEIR
- BRIDGE

1000-YEAR FLOOD INUNDATION EXTENT

- 1000-YEAR FLOOD EXTENT
- 1000-YEAR FLOOD EXTENT (FLOOD CONTROL STRUCTURE FAILURE)

DISCHARGE
BOW RIVER ABOVE ELBOW RIVER = 4880 M^3/S
ELBOW RIVER BELOW GLENMORE DAM = 2150 M^3/S

0 200 400
1:10,000 METRES

REFERENCE(S)
ROADS, RAILWAYS AND POPOPULATED PLACES OBTAINED FROM ALTALIS, © GOVERNMENT OF ALBERTA 2018. ALL RIGHTS RESERVED.
IMAGERY CAPTURED MAY 2016 BY GEODESY GROUP INC. FOR THE GOVERNMENT OF ALBERTA.
DATUM: NAD 83 CSRS PROJECTION: 3TM 114

CLIENT
ALBERTA ENVIRONMENT AND PARKS

Alberta Government

CONSULTANT
GOLDER
MEMBER OF WSP

YYYY-MM-DD	2021-12-03
DESIGNED	GT
PREPARED	NB
REVIEWED	WP
APPROVED	WP

PROJECT
BOW AND ELBOW RIVER HAZARD STUDY

TITLE
1000-YEAR FLOOD INUNDATION EXTENT

PROJECT NO.	CONTROL	REV.	FIGURE
21452576	4	0	34 of 34

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
0 25mm
PATH: I:\CLIENTS\GOVERNMENT_OF_ALBERTA\21452576_Bow_Elbow\Mapping\Products\Hydrology\04_Open Water Flood Inundation Map Production\Rev0\21452576_0100y-Inundation_Rev0.mxd PRINTED ON: 2022-04-29 AT: 4:17:55 PM
Classification: Public

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

For more information, visit golder.com

Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 44 1628 851851
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

DRAFT

Golder Associates Ltd.
2800, 700 - 2nd Street S.W.
Calgary, Alberta, T2P 2W2
Canada
T: +1 (403) 299 5600

Golder Associates

Classification: Public