APPENDIX 'A'
2017 CITY OF ST. JOHN'S RAINFALL HYETOGRAPHS – CLIMATE CHANGE

City of St. John's 2017 Rainfall Design Hyetographs For Climate Change

2-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	1.4	1.8	2.3	3.7	0.7	5.6
16.7%	3.6	4.5	5.8	9.3	1.4	14.0
25.0%	6.3	8.0	10.3	16.3	5.0	24.8
33.3%	9.8	12.5	16.1	25.7	12.6	38.9
41.7%	14.0	17.9	23.1	36.8	26.7	55.7
50.0%	17.4	22.0	28.5	45.4	44.3	68.7
58.3%	18.5	23.5	30.3	48.3	57.0	73.0
66.7%	19.3	24.5	31.6	50.4	64.0	76.4
75.0%	20.0	25.4	32.8	52.2	67.5	79.1
83.3%	20.4	26.0	33.5	53.5	68.9	80.9
91.7%	20.7	26.2	33.9	54.1	69.6	81.8
100.0%	20.8	26.4	34.1	54.4	70.3	82.3

5-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	1.9	2.5	3.2	5.1	1.0	7.7
16.7%	4.9	6.2	8.1	12.6	2.0	19.4
25.0%	8.6	11.1	14.3	22.3	6.9	34.5
33.3%	13.4	17.3	22.5	35.1	17.5	54.1
41.7%	19.2	24.8	32.1	50.2	37.0	77.5
50.0%	23.8	30.6	39.6	61.9	61.4	95.5
58.3%	25.3	32.6	42.1	65.9	79.0	101.6
66.7%	26.5	34.0	44.0	68.8	88.7	106.3
75.0%	27.4	35.3	45.6	71.3	93.6	110.0
83.3%	28.0	36.1	46.6	73.0	95.5	112.6
91.7%	28.3	36.4	47.1	73.8	96.5	113.8
100.0%	28.5	36.7	47.4	74.2	97.5	114.5

10-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	2.3	3.0	3.8	6.0	1.2	9.2
16.7%	5.8	7.4	9.6	14.9	2.4	23.1
25.0%	10.2	13.2	17.0	26.3	8.1	41.0
33.3%	16.0	20.6	26.8	41.4	20.8	64.4
41.7%	22.9	29.5	38.3	59.3	43.9	92.2
50.0%	28.2	36.4	47.2	73.0	72.8	113.7
58.3%	30.0	38.8	50.2	77.7	93.7	120.9
66.7%	31.4	40.5	52.4	81.2	105.3	126.5
75.0%	32.5	42.0	54.3	84.1	111.1	130.9
83.3%	33.2	42.9	55.6	86.0	113.3	134.0
91.7%	33.6	43.3	56.2	87.0	114.5	135.5
100.0%	33.8	43.6	56.5	87.5	115.7	136.3

20-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	2.7	3.5	4.4	6.8	1.4	10.6
16.7%	6.7	8.5	11.1	17.1	2.7	26.7
25.0%	11.8	15.2	19.6	30.2	9.4	47.3
33.3%	18.4	23.8	30.9	47.5	23.9	74.3
41.7%	26.4	34.0	44.1	68.0	50.6	106.3
50.0%	32.6	42.0	54.4	83.8	83.9	131.1
58.3%	34.7	44.7	57.9	89.2	107.9	139.4
66.7%	36.3	46.7	60.5	93.2	121.3	145.8
75.0%	37.6	48.4	62.6	96.5	127.9	151.0
83.3%	38.4	49.6	64.1	98.7	130.5	154.5
91.7%	38.8	50.0	64.8	99.9	131.9	156.2
100.0%	39.1	50.4	65.2	100.5	133.2	157.2

25-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	2.8	3.6	4.6	7.1	1.4	11.0
16.7%	7.0	8.9	11.6	17.8	2.8	27.8
25.0%	12.3	15.8	20.5	31.4	9.8	49.3
33.3%	19.2	24.8	32.2	49.4	24.9	77.4
41.7%	27.5	35.5	46.0	70.7	52.7	110.8
50.0%	34.0	43.7	56.7	87.2	87.4	136.6
58.3%	36.1	46.6	60.3	92.7	112.4	145.3
66.7%	37.8	48.7	63.0	96.9	126.3	152.0
75.0%	39.1	50.5	65.3	100.3	133.3	157.3
83.3%	40.0	51.7	66.8	102.7	136.0	161.1
91.7%	40.5	52.1	67.5	103.9	137.4	162.8
100.0%	40.7	52.5	68.0	104.5	138.8	163.8

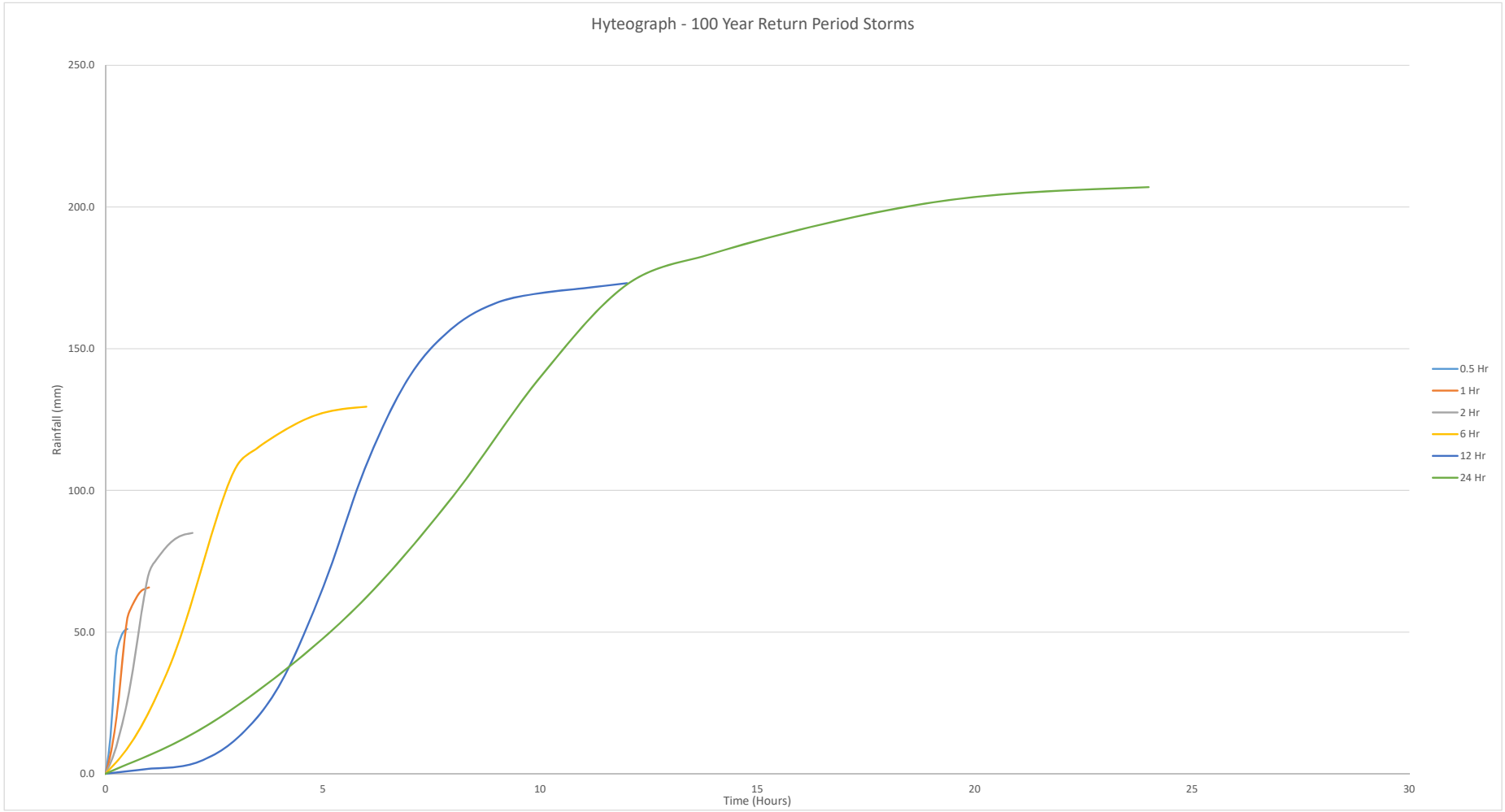
50-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	3.1	4.1	5.2	8.0	1.6	12.5
16.7%	7.9	10.0	13.0	19.9	3.2	31.4
25.0%	13.8	17.8	23.1	35.2	11.0	55.7
33.3%	21.7	28.0	36.2	55.3	28.0	87.6
41.7%	31.0	40.0	51.8	79.2	59.2	125.3
50.0%	38.4	49.3	63.8	97.7	98.3	154.5
58.3%	40.8	52.6	67.9	103.9	126.4	164.3
66.7%	42.7	54.9	71.0	108.5	142.0	171.9
75.0%	44.2	56.9	73.5	112.4	149.8	178.0
83.3%	45.1	58.3	75.2	115.0	152.9	182.2
91.7%	45.7	58.8	76.0	116.4	154.5	184.1
100.0%	45.9	59.2	76.5	117.0	156.0	185.3

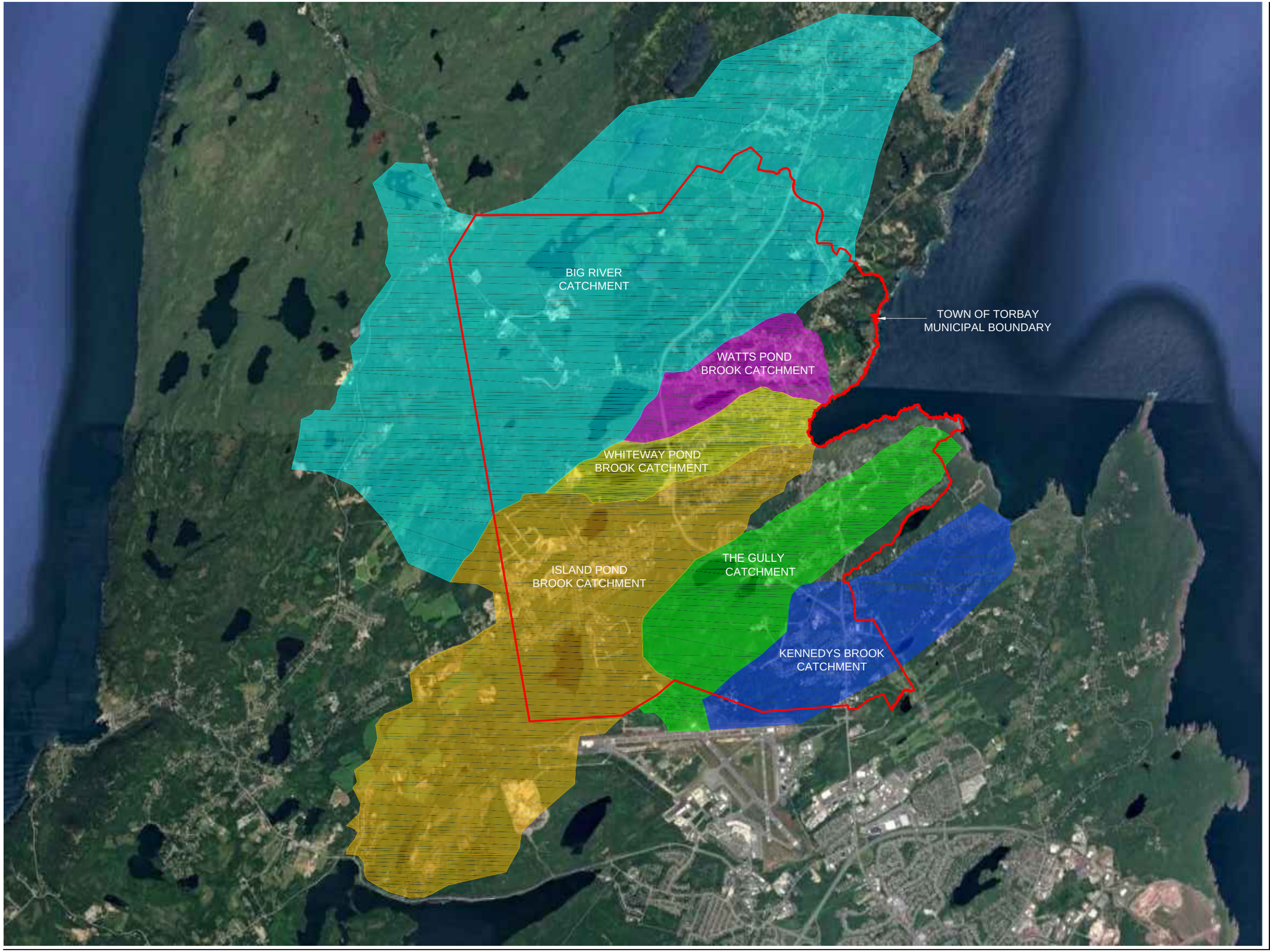
100-Year Cumulative Rainfall Design Hyetographs

Percent Time	0.5-Hour (mm)	1-Hour (mm)	2-Hour (mm)	6-Hour (mm)	12-Hour (mm)	24-Hour (mm)
0.0%	0.0	0.0	0.0	0.0	0.0	0.0
8.3%	3.5	4.5	5.8	8.8	1.8	14.0
16.7%	8.7	11.1	14.5	22.0	3.5	35.1
25.0%	15.4	19.8	25.6	38.9	12.2	62.3
33.3%	24.1	31.1	40.2	61.2	31.1	97.9
41.7%	34.5	44.4	57.5	87.7	65.7	140.1
50.0%	42.6	54.8	70.9	108.1	109.0	172.7
58.3%	45.4	58.4	75.5	115.0	140.3	183.7
66.7%	47.5	60.9	78.8	120.1	157.6	192.1
75.0%	49.1	63.2	81.6	124.4	166.2	198.9
83.3%	50.2	64.7	83.5	127.3	169.6	203.6
91.7%	50.8	65.3	84.5	128.8	171.4	205.8
100.0%	51.1	65.7	85.0	129.5	173.1	207.0

APPENDIX 'B'
2017 CITY OF ST. JOHN'S RAINFALL HYETOGRAPHS – CLIMATE CHANGE


Hyteograph - 100 Year Return Period Storms
250.0
200.0
150.0
100.0
50.0
0.0
Rainfall (mm)
0
5
10
15
20
25
30
Time (Hours)
0.5 Hr
1 Hr
2 Hr
6 Hr
12 Hr
24 Hr

APPENDIX 'C'
TOWN OF TORBAY CATCHMENT AREAS



A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

No.	REVISIONS	APP	DWN	DATE
X	X	X	X	X

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STAMP:

REGISTERED PROFESSIONAL ENGINEER
DARRYL MILLS
SIGNATURE
13/XX/XX
DATE
PROVINCE OF NEWFOUNDLAND

Progressive Engineering & Consulting Inc.

PERMIT STAMP:

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEG Newfoundland and Labrador
PERMIT HOLDER
This Permit Allows
PROGRESSIVE ENGINEERING & CONSULTING INC
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG N0566
which is valid for the year 2018

OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TOWN OF TORBAY FLOOD ANALYSIS GULLY

DRAWING TITLE:
TOWN OF TORBAY - CATCHMENT AREAS

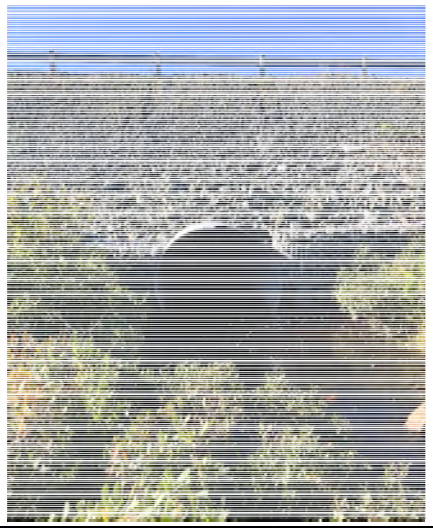
DRAWN BY:	DESIGNED BY:	APPROVED BY:
JP	JP	
MAE No:	DATE:	SCALE:
XXXXXX	MAY 2018	NTS
PROJECT No:	DRAWING No:	REV:
2017-043	APPENDIX B	

APPENDIX 'D'
INSPECTION REPORT – EXISTING INFRASTRUCTURE

2000mm CSP – South Pond

Date Surveyed	September 17, 2017
Location	South Pond
End Treatment	Gabion Baskets
Diameter (mm)	2000
Length(m)	20
Material	CSP
Condition	Culvert is in good condition and has sufficient capacity, gabion baskets are in good condition
Invert In	92.596
Invert Out	91.552

2000mm CSP – Torbay Bypass Road



Date Surveyed	September 17, 2017
Location	Torbay Bypass Road
End Treatment	Gabion Baskets
Diameter (mm)	2000
Length(m)	33
Material	CSP
Condition	Culvert is in good condition and has sufficient capacity, gabion baskets are in good condition
Invert In	91.905
Invert Out	90.592

900mm CSP – South Pond Road


Date Surveyed	September 17, 2017
Location	South Pond Road
End Treatment	None
Diameter (mm)	900
Length(m)	22
Material	CSP
Condition	Culvert close to full capacity during 100 year storm events. Minor compression as observed in field
Invert In	81.976
Invert Out	80.274

Twin 600 & 900mm CSP – Quigley's Lane

Date Surveyed	September 19, 2017
Location	Quigley's Lane
End Treatment	Concrete
Diameter (mm)	Twin 600 & 900
Length(m)	14
Material	CSP
Condition	Culverts in poor condition. Concrete structure deteriorating, culverts partially buried and deformed. A lot of standing water near culvert inverts
Invert In	79.241, 79.410
Invert Out	79.547,79.365

2200 x 3100mm Arch CSP – Torbay Road



Date Surveyed	September 19, 2017
Location	Torbay Road
End Treatment	None
Diameter (mm)	2200 x 3100 Arch
Length(m)	14
Material	CSP
Condition	Culvert in fair condition
Invert In	44.249
Invert Out	44.899

1600 x 3500mm Rectangular Concrete Bridge – Marine Drive



Date Surveyed	September 19, 2017
Location	Marine Drive
End Treatment	None
Diameter (mm)	1600 x 3500
Length(m)	18
Material	Concrete
Condition	Exposed rebar on structure, as well as deteriorating concrete. Inspection by a structural engineer is highly recommended
Invert In	25.311
Invert Out	25.3

Twin 600 & 700mm CSP – Skipper's Landing

Date Surveyed	September 19, 2017
Location	Skipper's Landing
End Treatment	None
Diameter (mm)	Twin 600 & 700mm
Length(m)	18
Material	CSP
Condition	Culverts in good condition
Invert In	116.605, 115.700
Invert Out	116.416, 115.433

1200 x 4000mm Aluminum Arch Bottomless – Lynch's Lane



Date Surveyed	September 19, 2017
Location	Lynch's Lane
End Treatment	Aluminum Headwall
Diameter (mm)	1200 x 4000 Arch
Length(m)	14
Material	CSP w/ Aluminum Headwall
Condition	Structurally the culvert is in good condition
Invert In	41.217
Invert Out	41.184

Triple 600mm & 900mm – Crowe's Lane

Date Surveyed	June 21, 2018
Location	Crowes Lane
End Treatment	Circular
Diameter (mm)	Triple 600 & 900
Length(m)	12
Material	CSP
Condition	Culverts in good condition, a lot of standing water near culverts, poor conveyance through culverts
Invert In	86.339, 86.288,86.149, 86.161
Invert Out	86.347, 86.253, 86.294, 85.990

Twin 600mm CSP – Cannon Marsh Road

Date Surveyed	June 21, 2018
Location	Cannon Marsh Road
End Treatment	Circular
Diameter (mm)	Twin 600
Length(m)	9
Material	CSP
Condition	Culverts are in poor condition due to compression from concrete barrier. Thus, capacity of these culverts have been lowered. Removal of concrete barrier and replacement of culverts strongly recommended
Invert In	78.583, 78.567
Invert Out	78.159, 78.175

3600 x 2000mm Arch Bottomless CSP - Captain Matthew Davis Drive

Date Surveyed	June 21, 2018
Location	Captain Matthew Davis Drive
End Treatment	Arch Bottomless
Diameter (mm)	Triple 600
Length(m)	3600 x 2000
Material	CSP
Condition	Culverts are in poor condition due to compression from concrete barrier. Thus, capacity of these culverts have been lowered. Removal of concrete barrier and replacement of culverts strongly
Invert In	110.853
Invert Out	110.811

Twin 1500mm CSP – Rattling Brook Road

Date Surveyed	June 21, 2018
Location	Rattling Brook Road
End Treatment	None
Diameter (mm)	Twin 1500
Length(m)	18
Material	CSP
Condition	Culverts and gabion baskets in good condition
Invert In	81.767, 81.678
Invert Out	81.521, 81.460

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1200mm CSP – Western Island Pond Road

Date Surveyed	June 21, 2018
Location	Western Island Pond Road
End Treatment	Gabion Baskets
Diameter (mm)	1200
Length(m)	12
Material	CSP
Condition	Culverts and gabion baskets in good condition
Invert In	109.339
Invert Out	109.358

Twin 1200mm CSP – Dunphy's Lane

Date Surveyed	June 21, 2018
Location	Dunphy's Lane
End Treatment	Brick
Diameter (mm)	Twin 1200
Length(m)	12
Material	CSP
Condition	Culverts and end treatments are in good condition
Invert In	66.017, 65.745
Invert Out	65.896, 65. 895

Twin 600mm CSP – Country Drive

Date Surveyed	June 21, 2018
Location	Country Drive
End Treatment	None
Diameter (mm)	Twin 600 CSP
Length(m)	11
Material	CSP
Condition	Culverts in good condition
Invert In	111.293, 111.019
Invert Out	111.089, 111.111

900mm CSP – Hickey's Place

Date Surveyed	June 21, 2018
Location	Hickey's Place
End Treatment	Concrete headwall
Diameter (mm)	900
Length(m)	30
Material	CSP
Condition	Concrete headwall experiencing minor concrete deterioration. Culvert slightly compressed
Invert In	60.955
Invert Out	60.170

2400 x 900mm Rectangular Concrete – Kennedy's Brook Drive

Date Surveyed	June 21, 2018
Location	Kennedy's Brook Drive
End Treatment	Gabion Basket
Diameter (mm)	2400 x 900 rectangular
Length(m)	13
Material	Concrete
Condition	Good condition
Invert In	81.437
Invert Out	80.390

900mm CSP – Rosebud Street

Date Surveyed	June 21, 2018
Location	Rosebud Street
End Treatment	Circular
Diameter (mm)	900
Length(m)	12
Material	CSP
Condition	Large rock compressing inlet side of culvert. Outlet side of culvert in good condition
Invert In	87.724
Invert Out	87.866

Twin 900 CSP – Woodfine's Place

Date Surveyed	June 21, 2018
Location	Woodfine's Place
End Treatment	Circular
Diameter (mm)	Twin 900
Length(m)	12
Material	CSP
Condition	Culverts in good condition
Invert In	117.483, 117.506
Invert Out	117.269, 117.305

Date Surveyed	June 21, 2018
Location	Karon Drive
End Treatment	Circular
Diameter (mm)	600
Length(m)	12
Material	CSP
Condition	Culverts in good condition
Invert In	98.510
Invert Out	98.160

Twin 900mm CSP – Shea's Lane


Date Surveyed	June 21, 2018
Location	Shea's Lane
End Treatment	Circular
Diameter (mm)	Twin 900
Length(m)	9
Material	CSP
Condition	Culverts in good condition. Anecdotal evidence suggests that this area has had flooding issues in the past.
Invert In	60.037, 59.997
Invert Out	59.837, 59.876

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Twin 1200mm CSP – Moore's Valley Road

Date Surveyed	June 21, 2018
Location	Moore's Valley Road
End Treatment	Circular
Diameter (mm)	Twin 1200
Length(m)	12
Material	CSP
Condition	Culverts in good condition.
Invert In	40.051, 39.925
Invert Out	39.421, 39.391

The Battery Bridge Structure

Date Surveyed	June 21, 2018
Location	The Battery
End Treatment	Circular
Diameter (mm)	N/A
Length(m)	3
Material	Concrete
Condition	Excessive concrete deterioration, concrete located in stream. Inspection from a structural engineer is strongly recommended.
Invert In	-
Invert Out	-

Twin 600mm Concrete – 526 Bauline Line

Date Surveyed	June 21, 2018
Location	596 Bauline Line
End Treatment	None
Diameter (mm)	Twin 600
Length(m)	14
Material	Concrete
Condition	Concrete culverts are in good condition
Invert In	122.296, 122.185
Invert Out	122.299, 122.336

700mm CSP – Bauline Line

Date Surveyed	June 21, 2018
Location	455 Bauline Line
End Treatment	None
Diameter (mm)	700
Length(m)	14
Material	CSP
Condition	Culvert in good condition
Invert In	115.379
Invert Out	115.189

1200mm CSP – Bauline Line

Date Surveyed	June 21, 2018
Location	395 Bauline Line
End Treatment	None
Diameter (mm)	1200
Length(m)	14
Material	CSP
Condition	Culvert in good condition
Invert In	110.675
Invert Out	110.624

Bridge Structure – Torbay Road

Date Surveyed	June 21, 2018
Location	Torbay Road
End Treatment	None
Diameter (mm)	N/A
Length(m)	9
Material	Concrete
Condition	Bridge structure appears to be in good condition. No exposed rebar and no signs of concrete deterioration.
Invert In	-
Invert Out	-

4600 x 6700 CSP – Torbay Bypass Road

Date Surveyed	June 21, 2018
Location	Torbay Bypass Road
End Treatment	None
Diameter (mm)	4600 x 6700
Length(m)	26
Material	CSP
Condition	Culvert in good condition
Invert In	-
Invert Out	-

2000mm CSP – Torbay Road

Date Surveyed	June 21, 2018
Location	Torbay Road
End Treatment	Gabion basket
Diameter (mm)	2000
Length(m)	48
Material	CSP
Condition	Culvert in good condition
Invert In	83.389
Invert Out	82.178

400mm CSP – Bauline Line

Date Surveyed	August 13, 2018
Location	Bauline Line
End Treatment	None
Diameter (mm)	400
Length(m)	
Material	CSP
Condition	Culvert in poor condition. Excessive standing water and bottom half of culvert appears to be rusted out.
Invert In	88.625
Invert Out	82.547

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1200mm CSP – Torbay Road

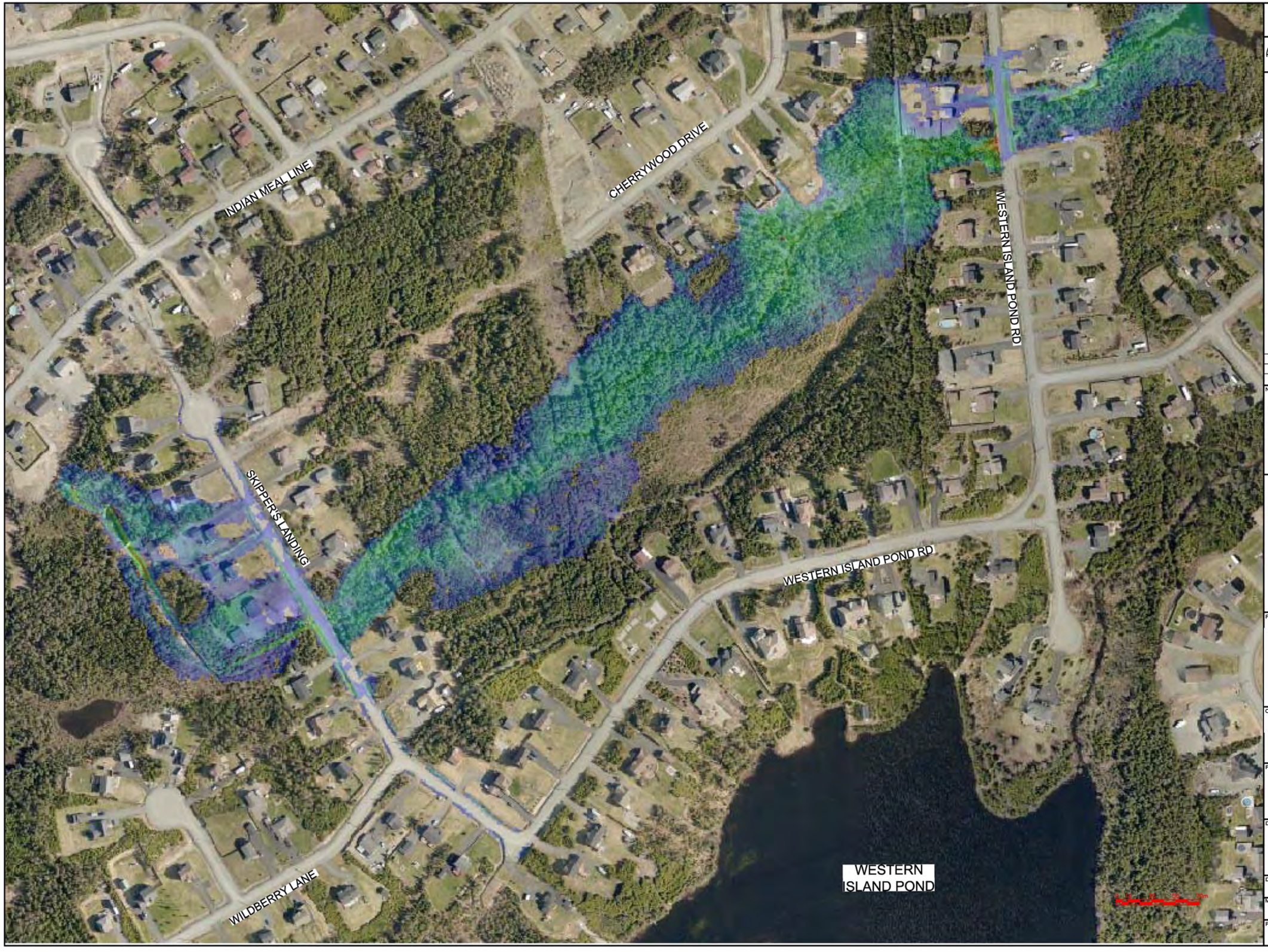
Date Surveyed	August 13, 2018
Location	Torbay Road
End Treatment	Gabion Baskets
Diameter (mm)	1200
Length(m)	
Material	CSP
Condition	Culvert in good condition
Invert In	47.557
Invert Out	47.533

500mm CSP – Victoria Place

Date Surveyed	August 13, 2018
Location	Victoria Place
End Treatment	Brick
Diameter (mm)	500
Length(m)	12
Material	CSP
Condition	Brick end treatment appears to be deteriorating. The culvert is slightly compressed
Invert In	113.225
Invert Out	113.192

Date Surveyed	August 13, 2018
Location	Torbay Road
End Treatment	Concrete
Diameter (mm)	1200
Length(m)	
Material	CSP
Condition	Culvert appears to be in good condition. Brick end treatment and concrete headwall type structure show no signs of deterioration.
Invert In	81.906
Invert Out	81.560

APPENDIX 'E'
EXISTING CONDITIONS – EXISTING BUILDOUT FLOODPLAINS



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Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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To practice Professional Engineering in Newfoundland and Labrador.
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which is valid for the year 2019

OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING
FLOODPLAIN EXTENTS
100 YR - 1 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
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PROJECT No:	DRAWING No:	REV:
2018-021	PR-2	

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C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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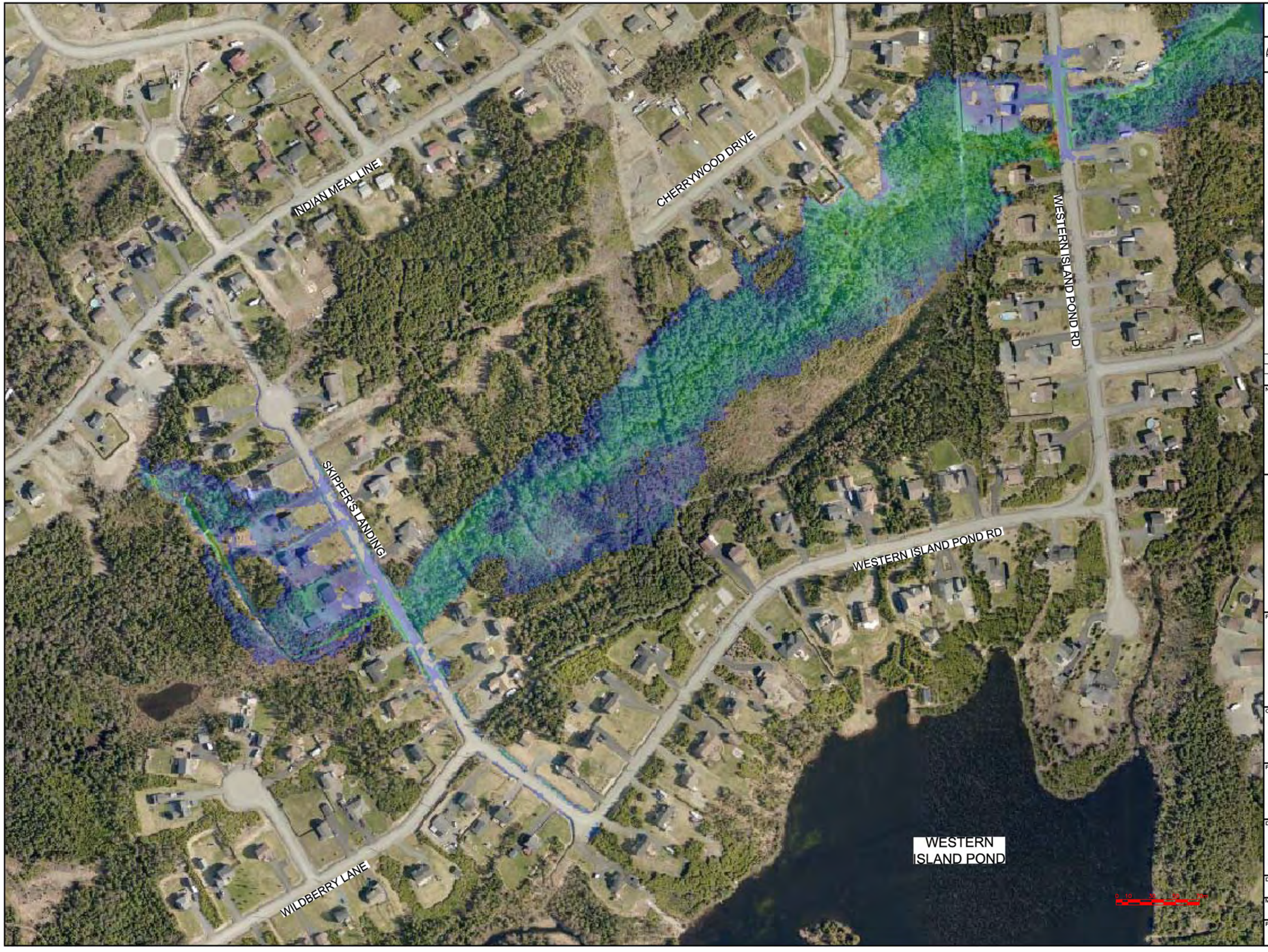
Permit No. as issued by PEG N0566
which is valid for the year 2019

OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING
FLOODPLAIN EXTENTS
100 YR - 2 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-3	



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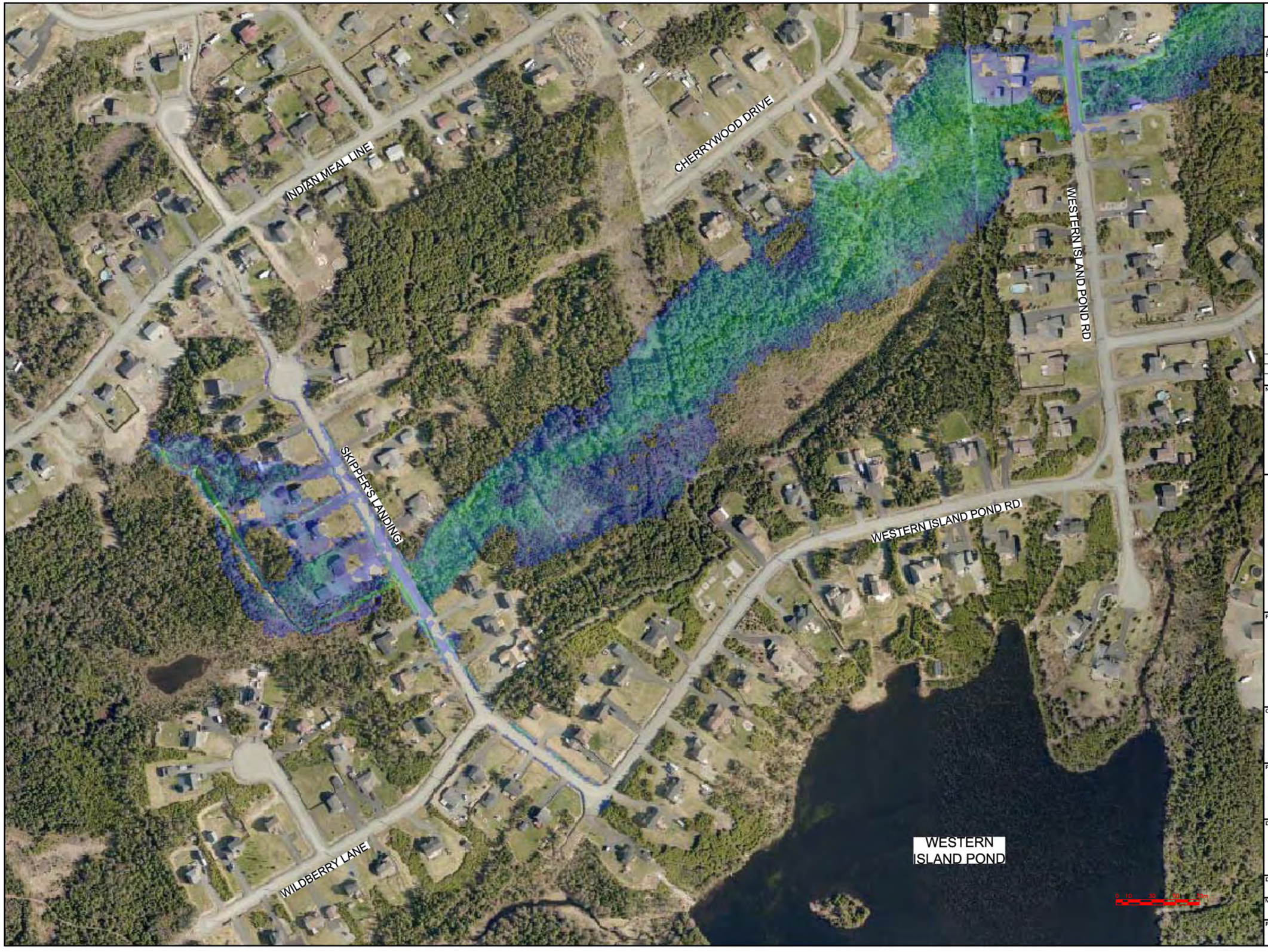
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING
FLOODPLAIN EXTENTS
100 YR - 6 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-4	



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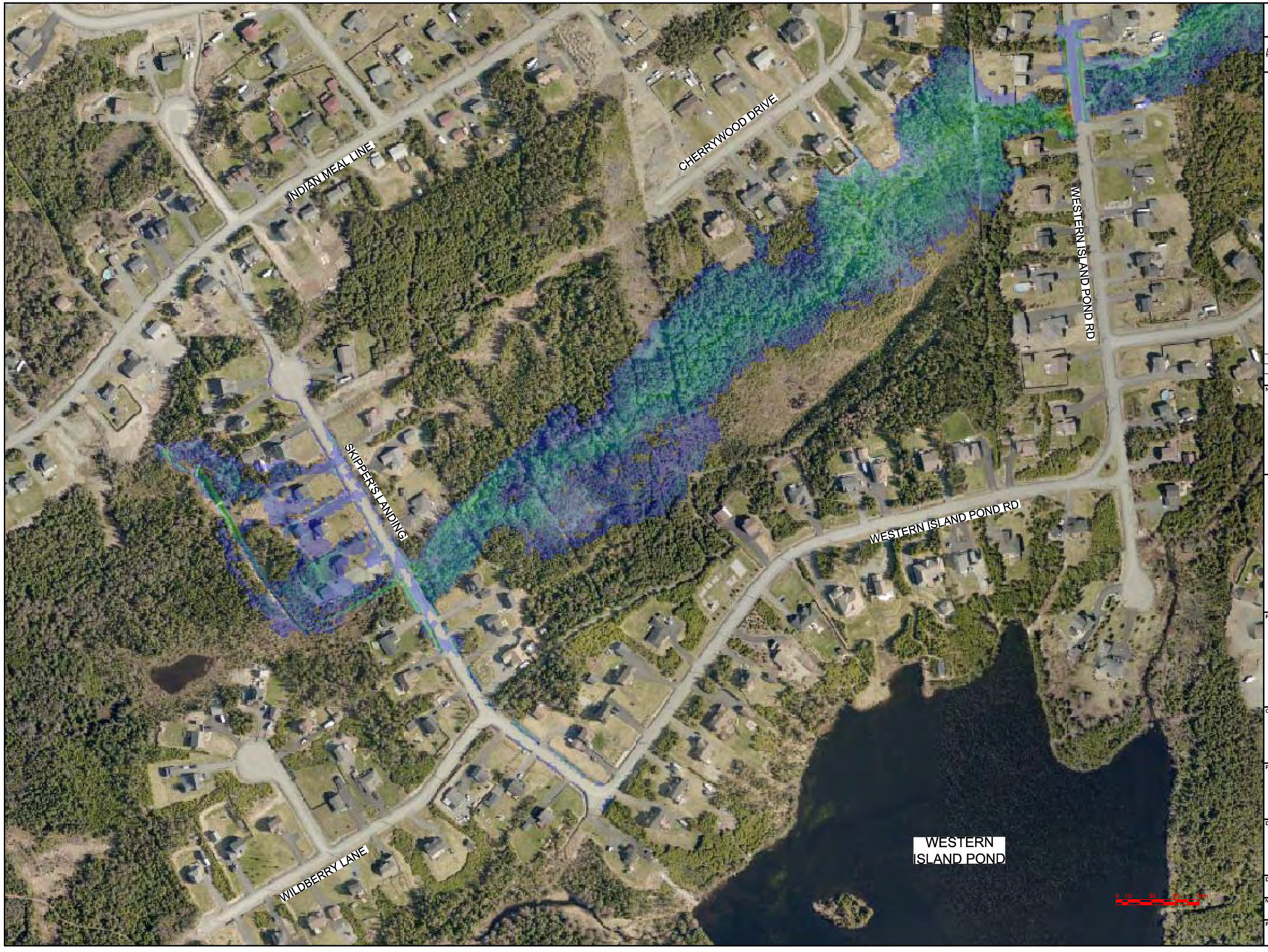
OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING FLOODPLAIN EXTENTS 100 YR - 12 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-5	



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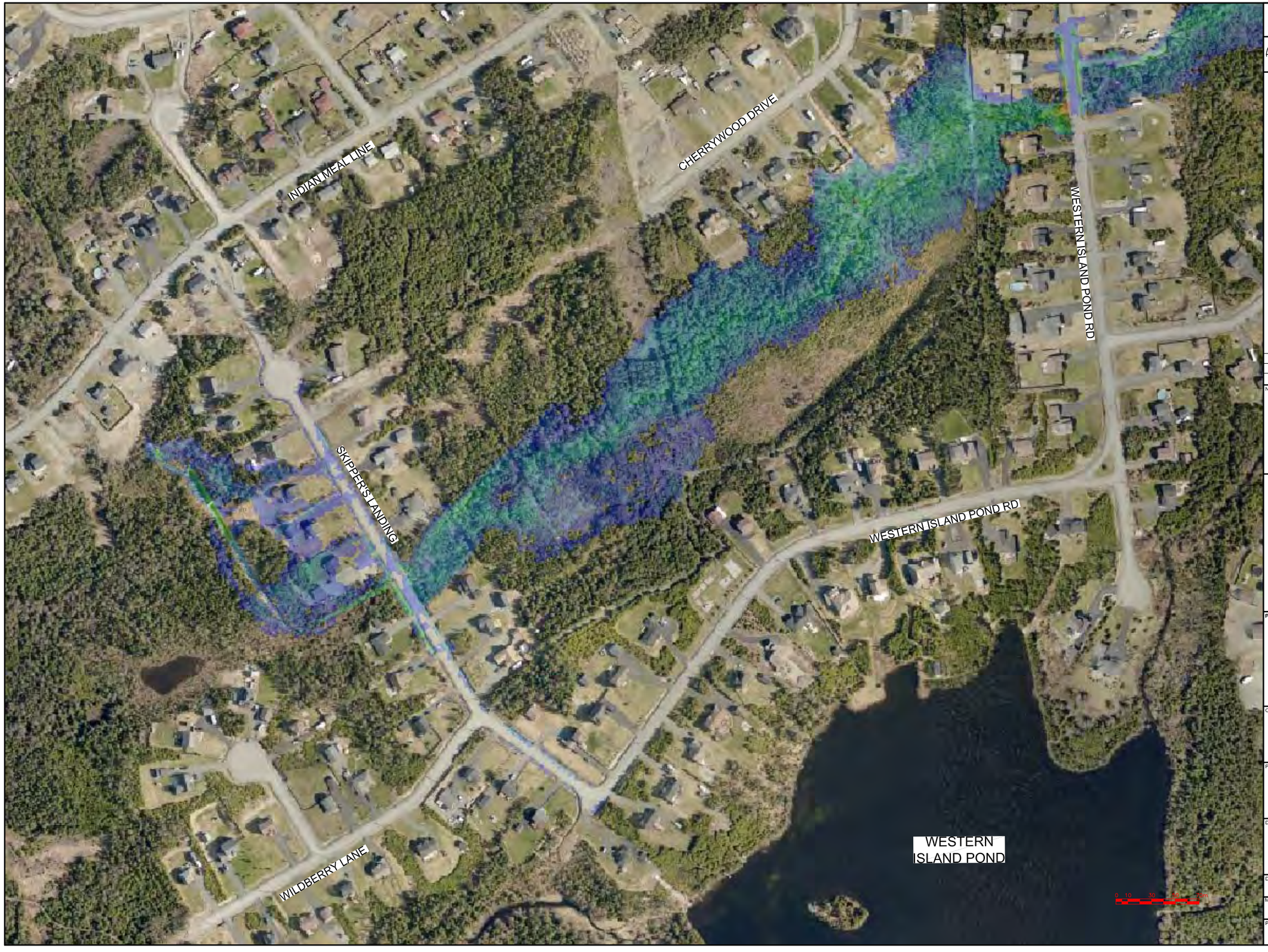
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING
FLOODPLAIN EXTENTS
100 YR - 24 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-6	



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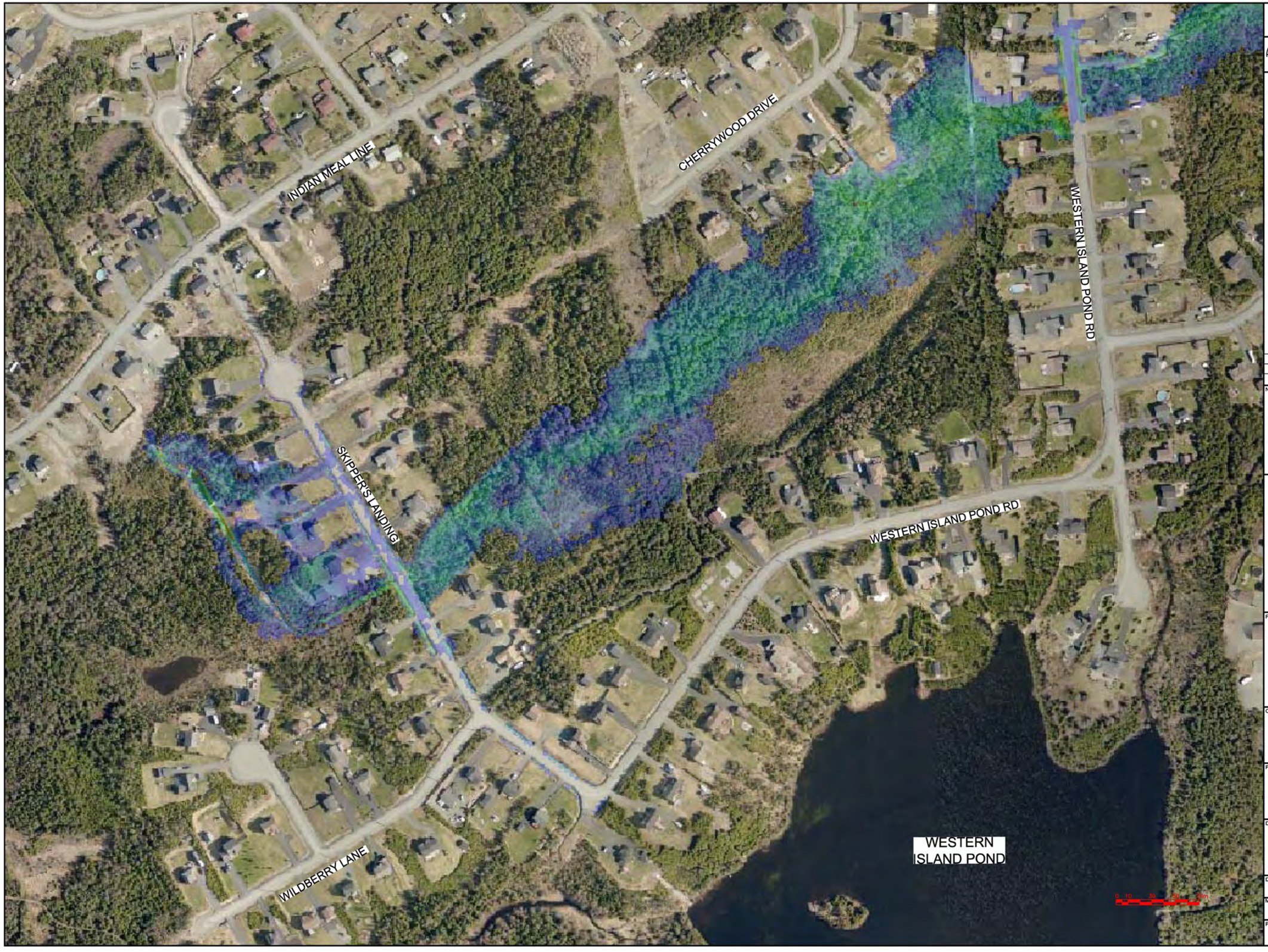
OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING FLOODPLAIN EXTENTS IGOR

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-7	



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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
SKIPPER'S LANDING FLOODPLAIN EXTENTS CHANTEL

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-8	

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 1 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-9	

AXES POND

TORBAY BYPASS ROAD

BERNICE DR

LITTLE GALLOWS COVE

A MATCH LINE REFER TO PR-10

A MATCH LINE REFER TO PR-10

A MATCH LINE REFER TO PR-10

A

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 1 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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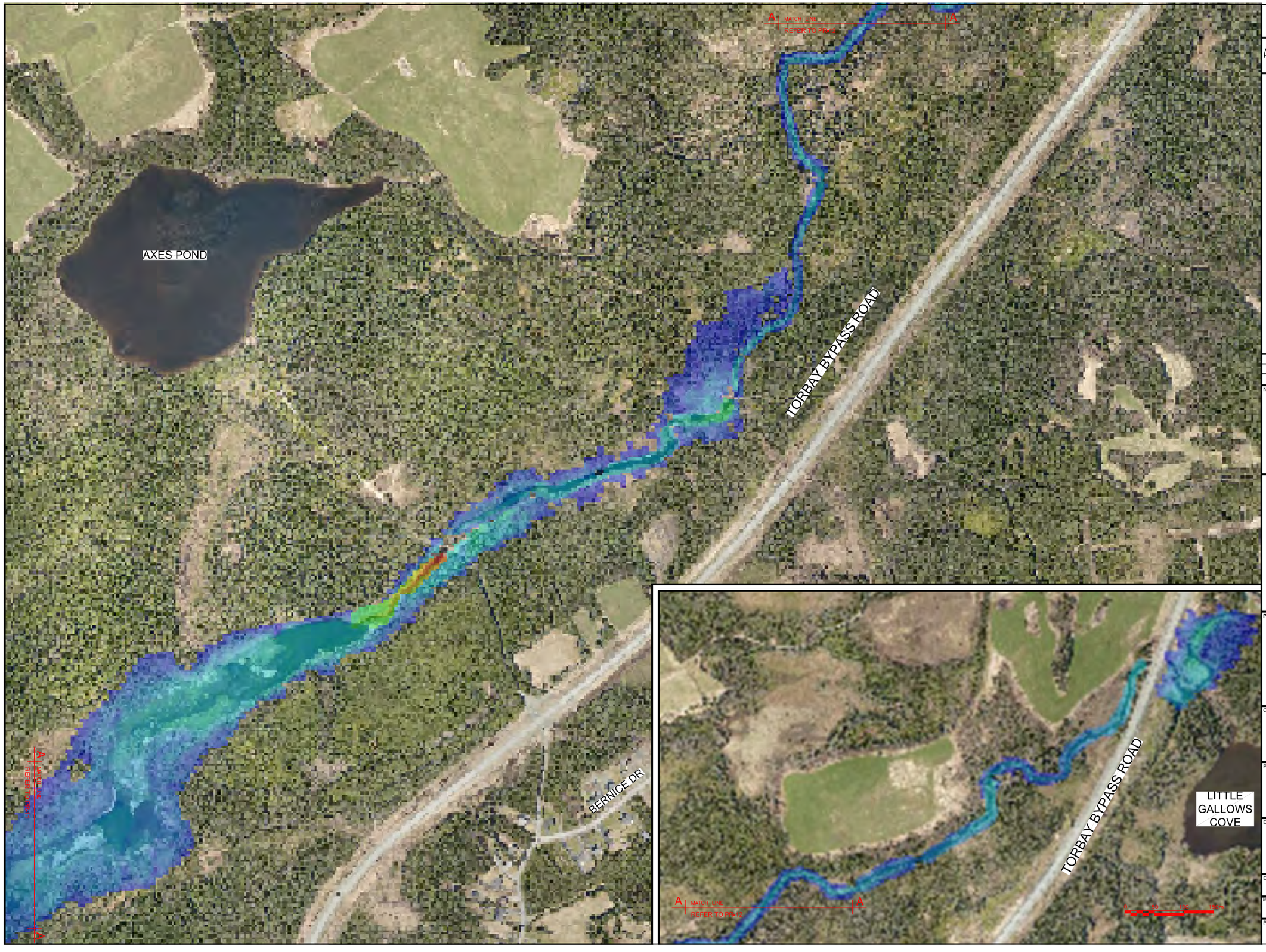
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 2 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-11	



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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 2 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-12	

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 6 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
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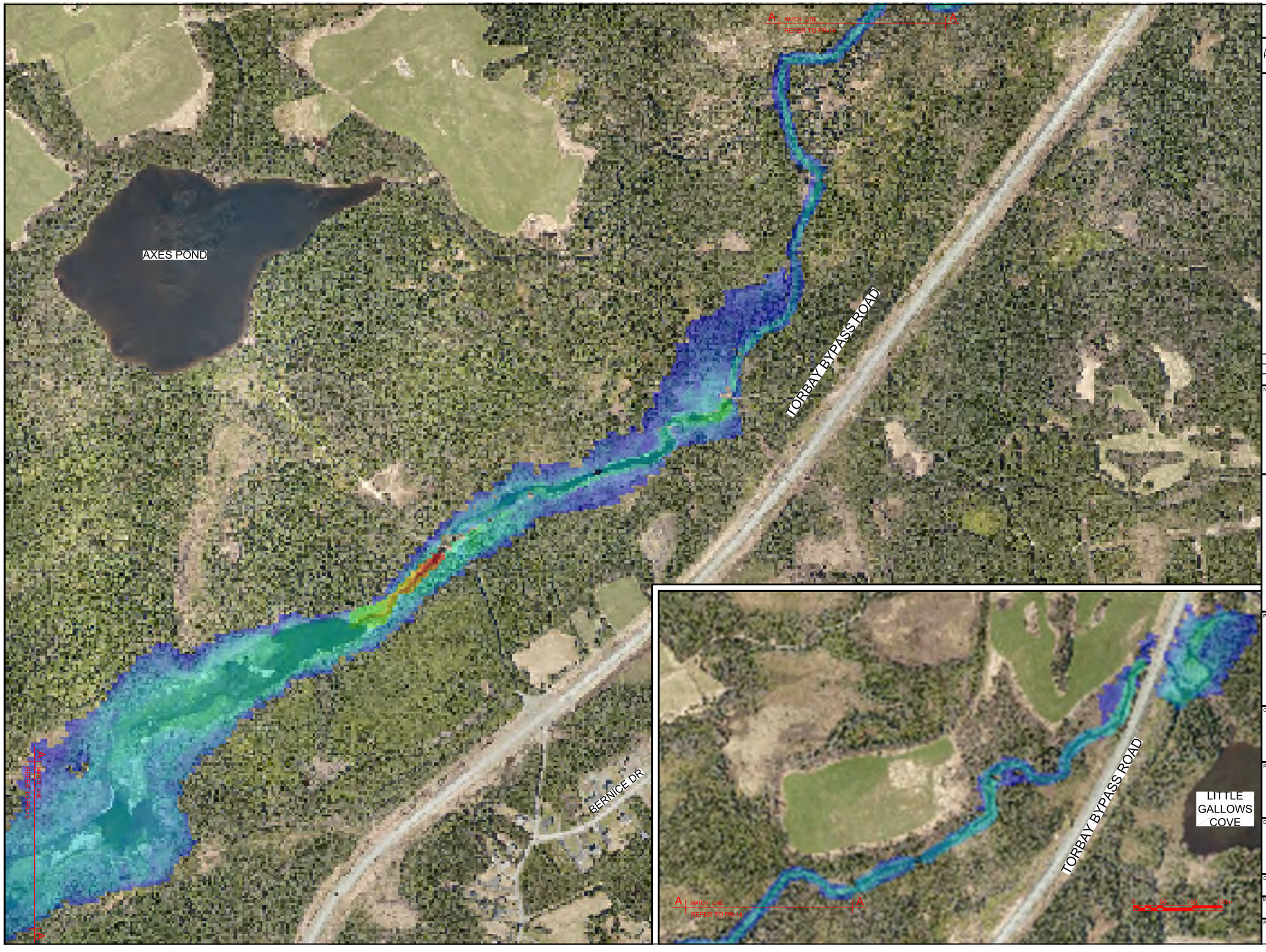

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 6 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-14	

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 12 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
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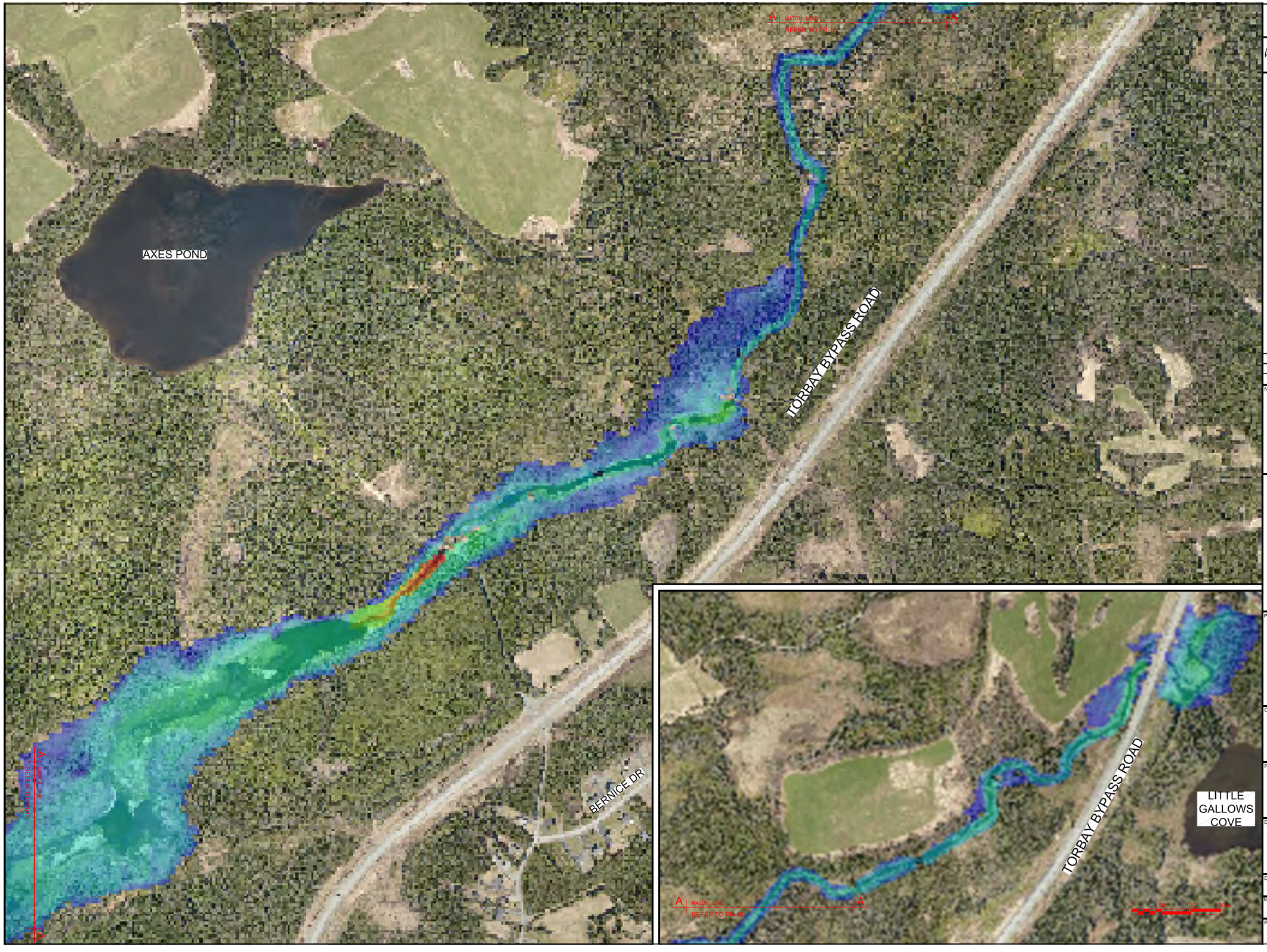

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 12 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
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PROJECT No:	DRAWING No:	REV:
2018-021	PR-16	

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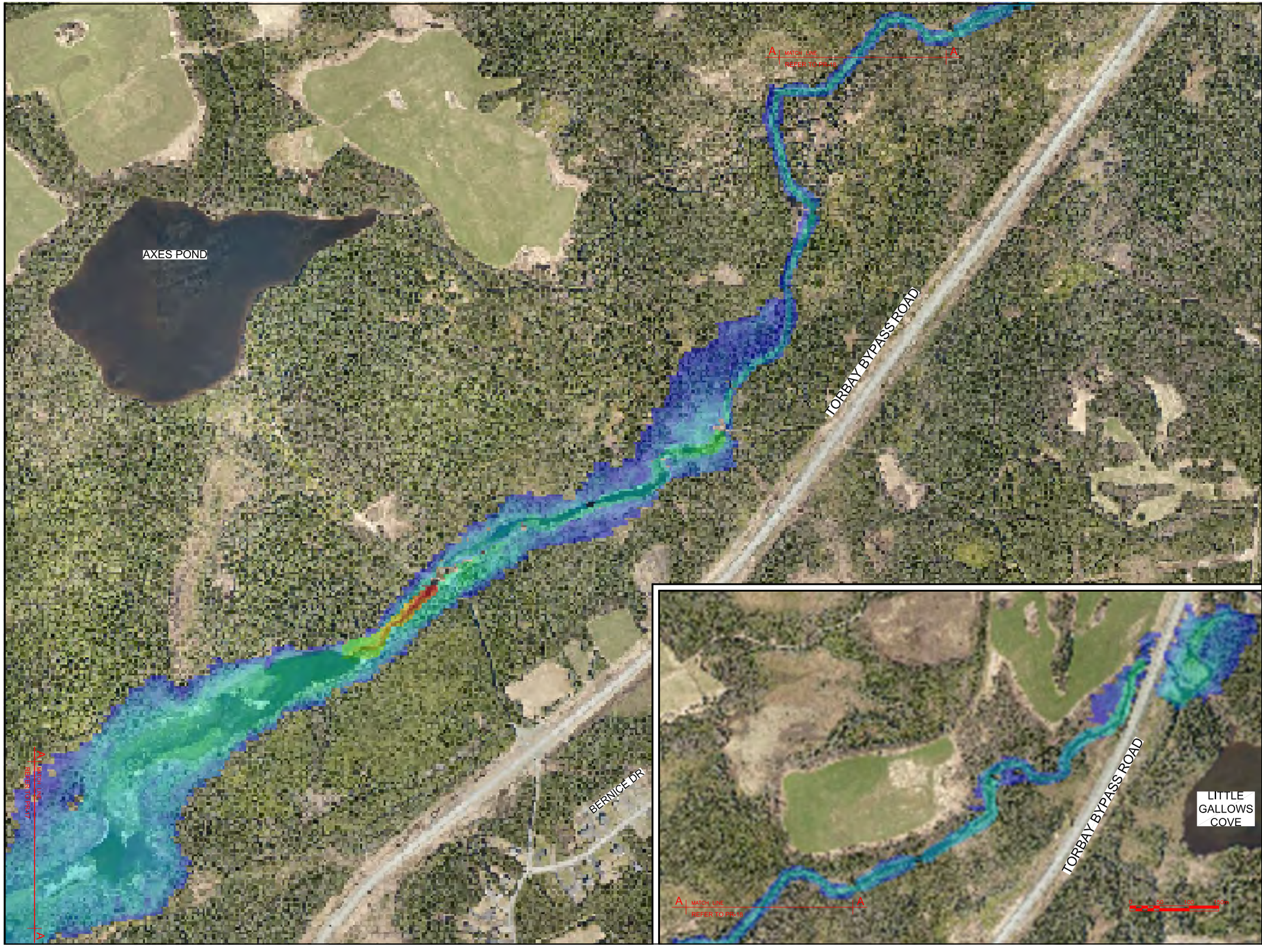
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 24 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-17	



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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
100 YR - 24 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-18	

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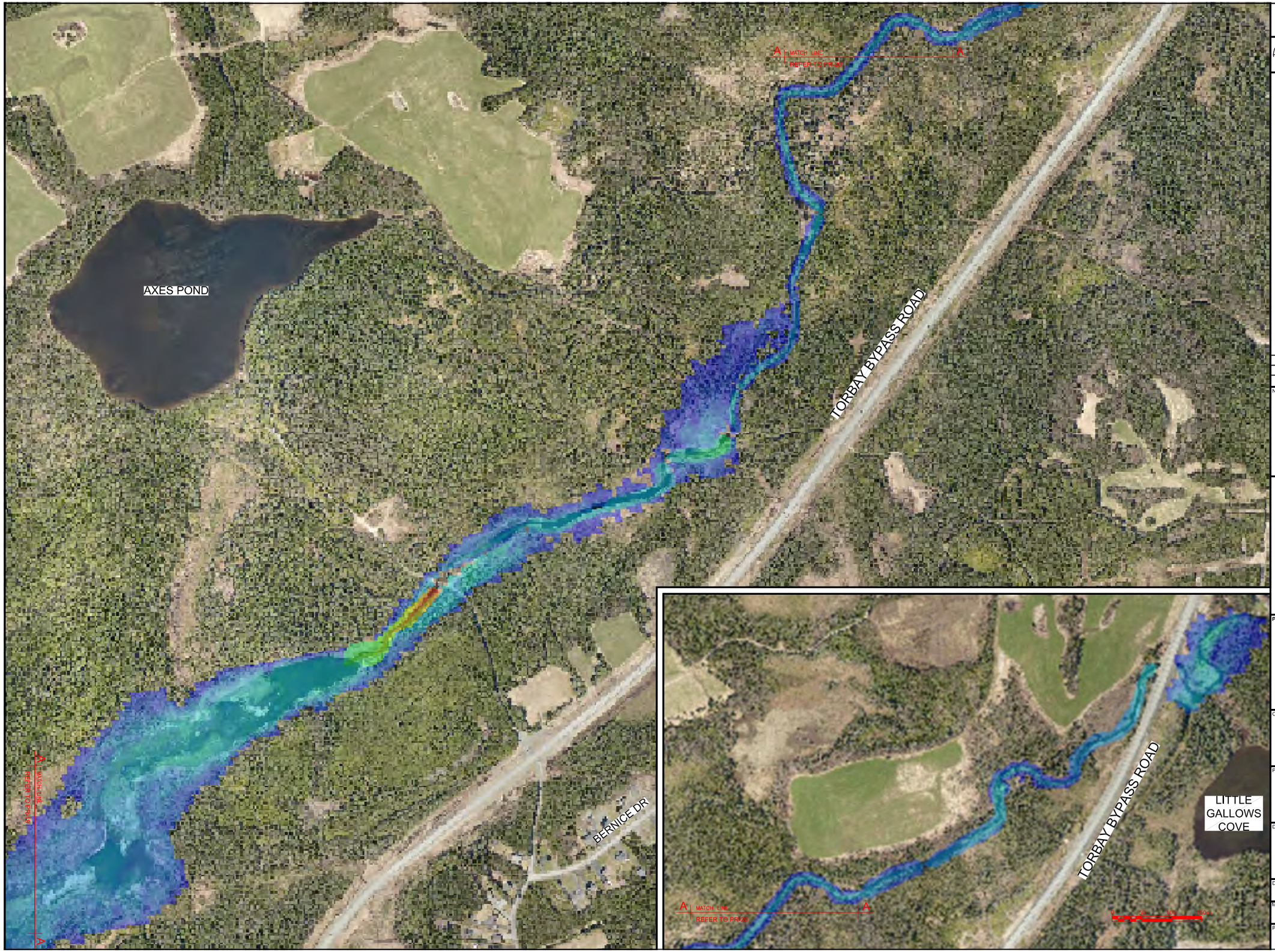
PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
IGOR (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-19	



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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER FLOODPLAIN EXTENTS IGOR (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-20	

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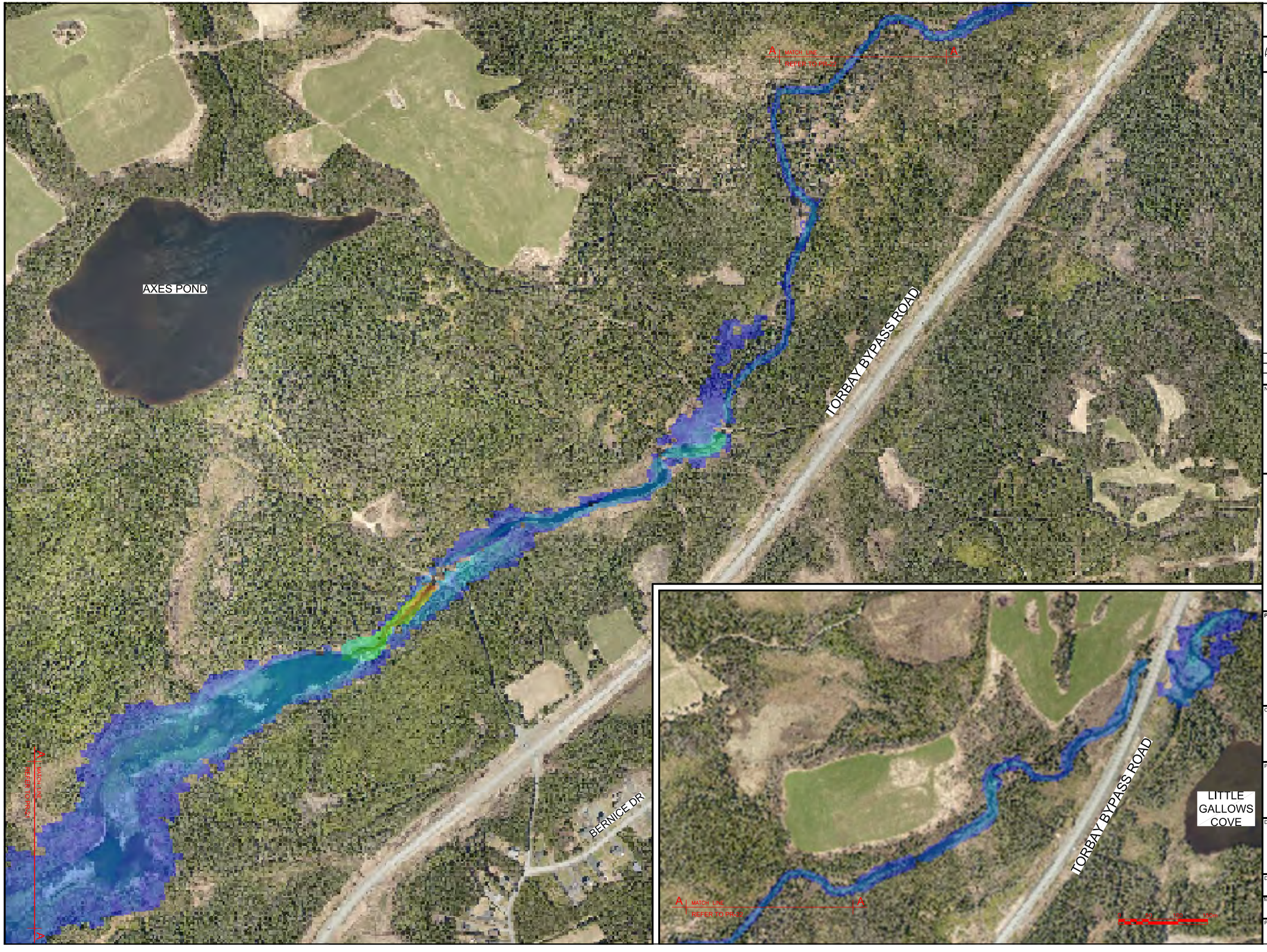
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
CHANTEL (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-21	



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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
BIG RIVER
FLOODPLAIN EXTENTS
CHANTEL (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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PROJECT No:	DRAWING No:	REV:
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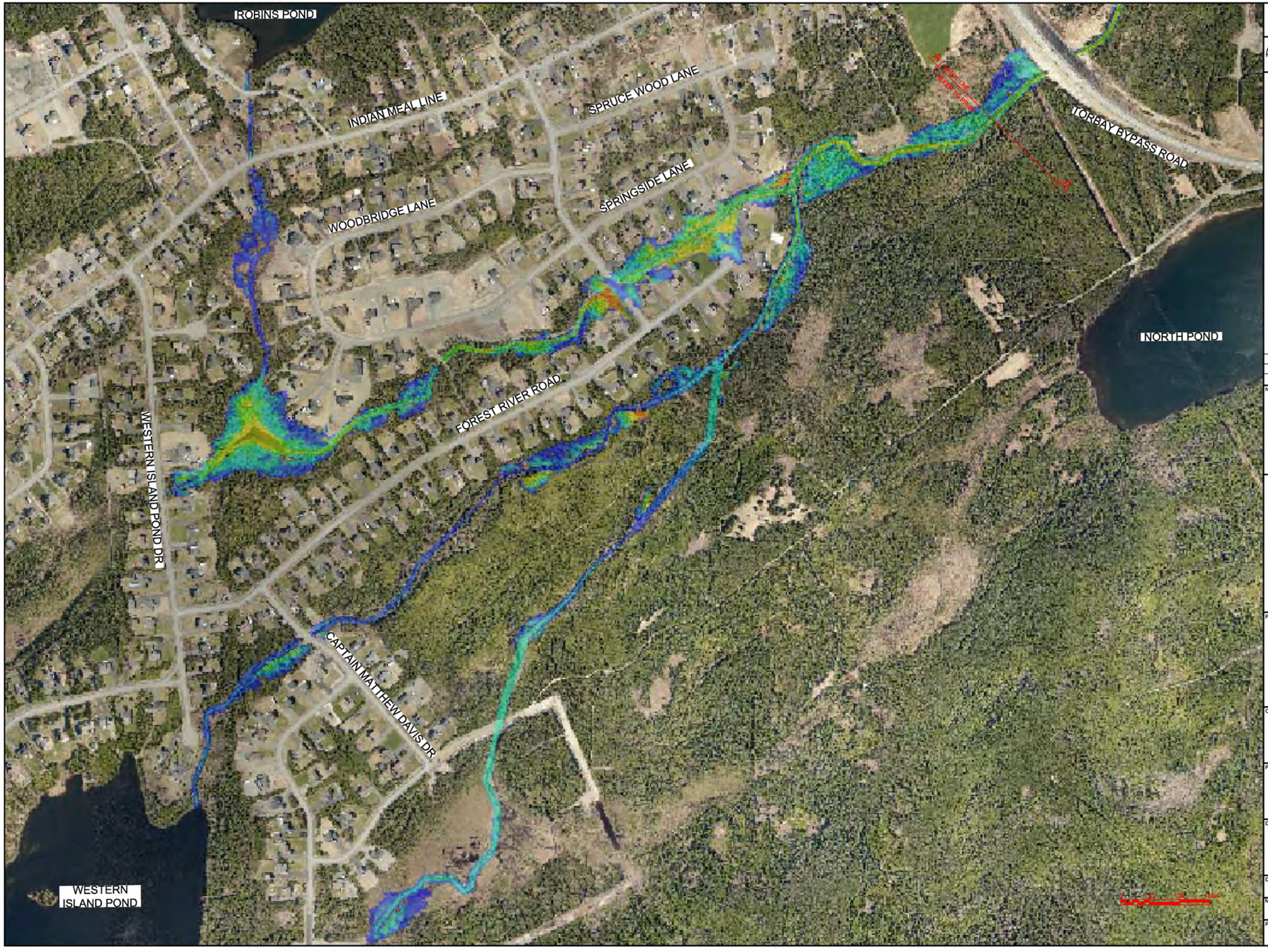

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 1 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-23	

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 1 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-24	

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 2 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
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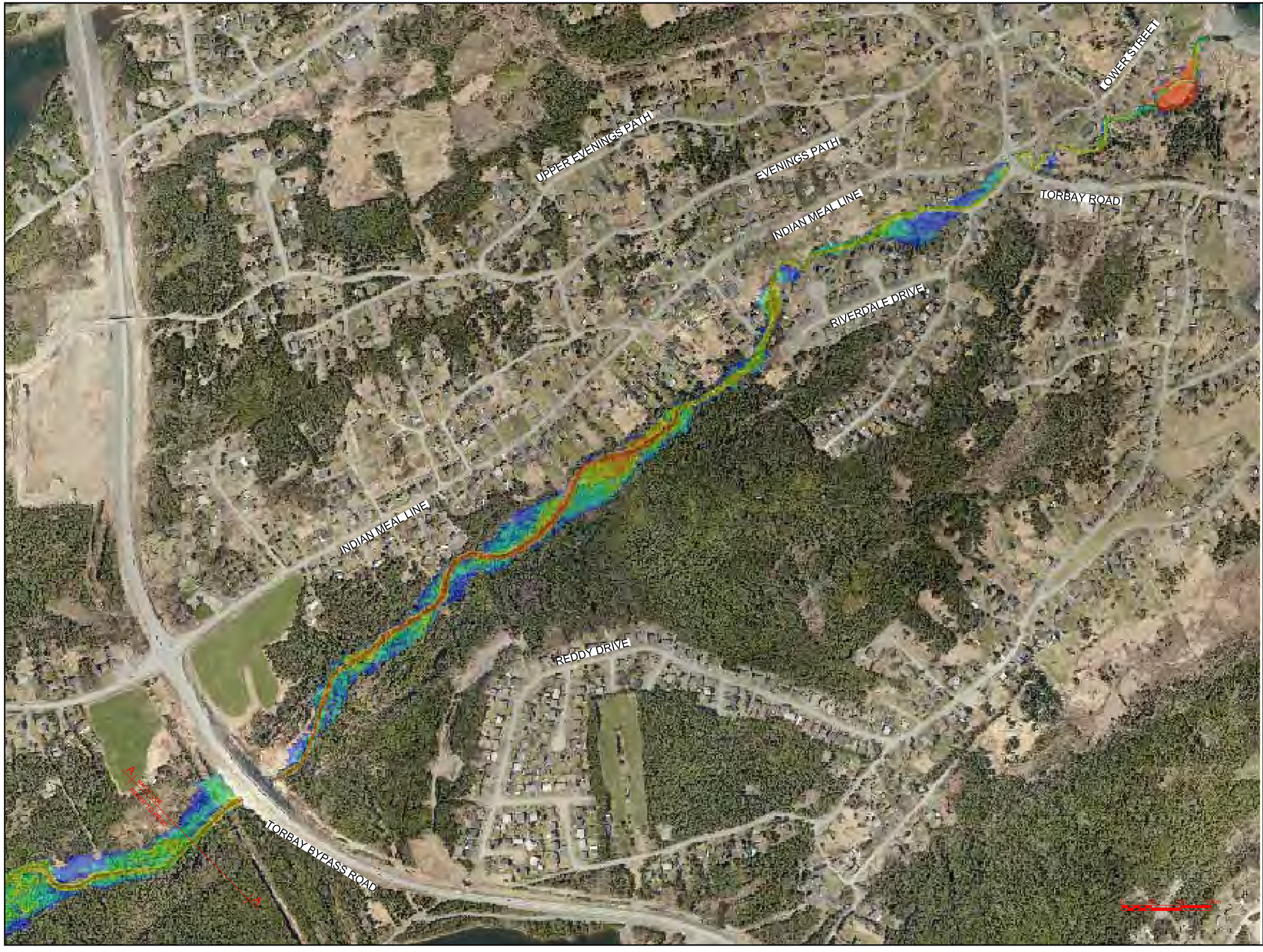

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 2 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
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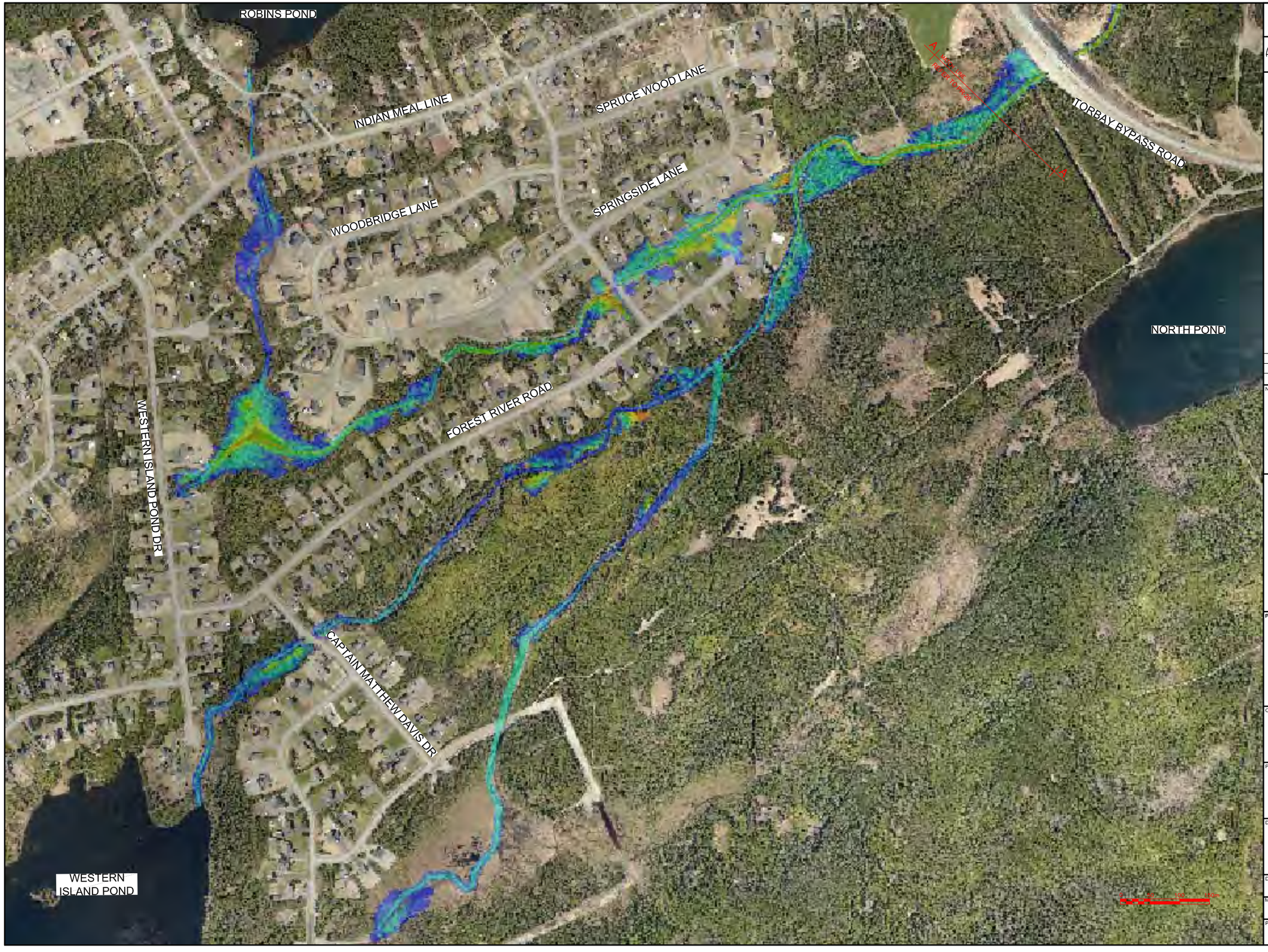

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - 6 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-27	

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - 6 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
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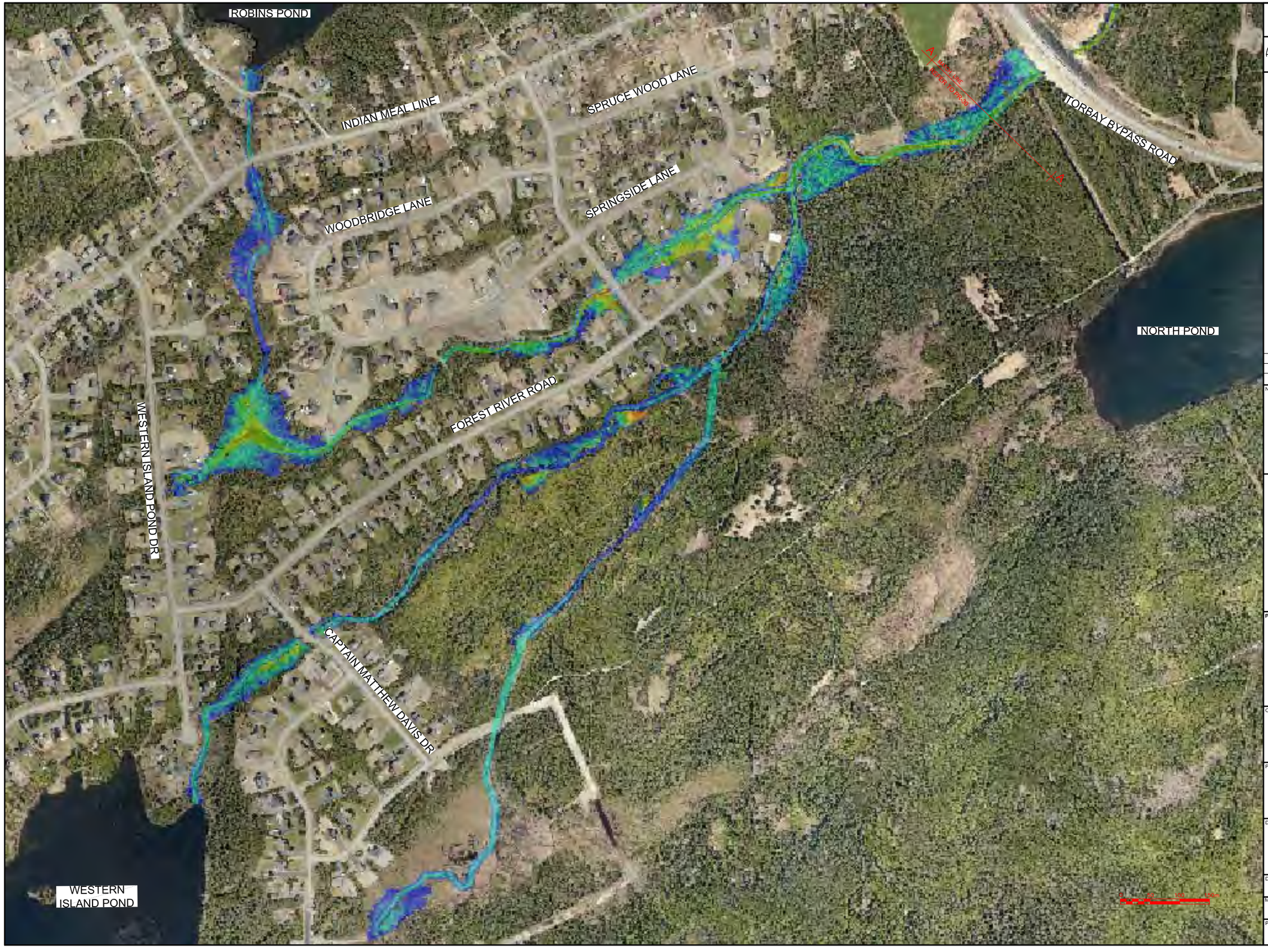

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 12 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
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PROJECT No:	DRAWING No:	REV:
2018-021	PR-29	

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - 12 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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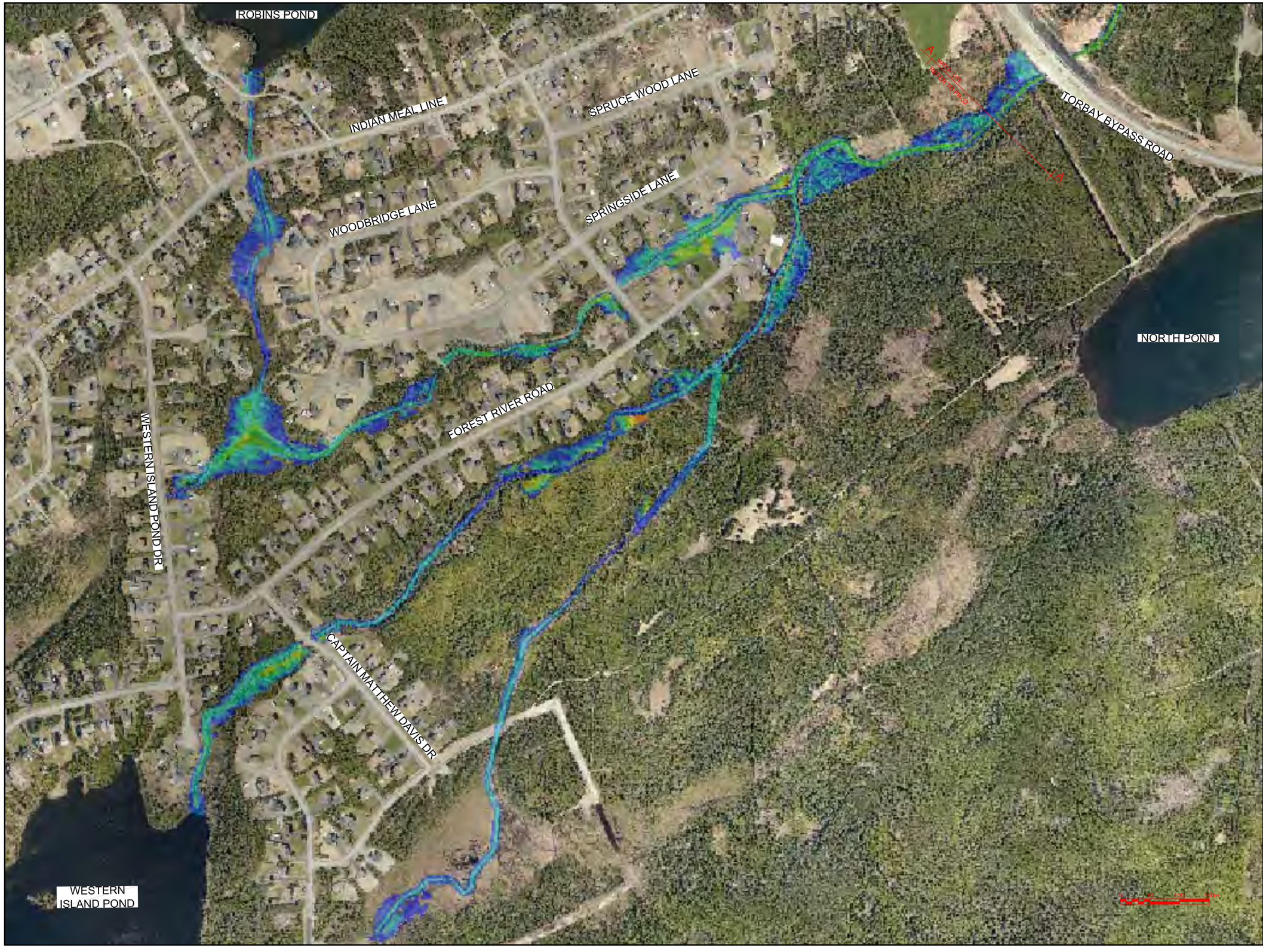
PROJECT No:	DRAWING No:	REV:
2018-021	PR-30	



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TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 24 HR CC (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
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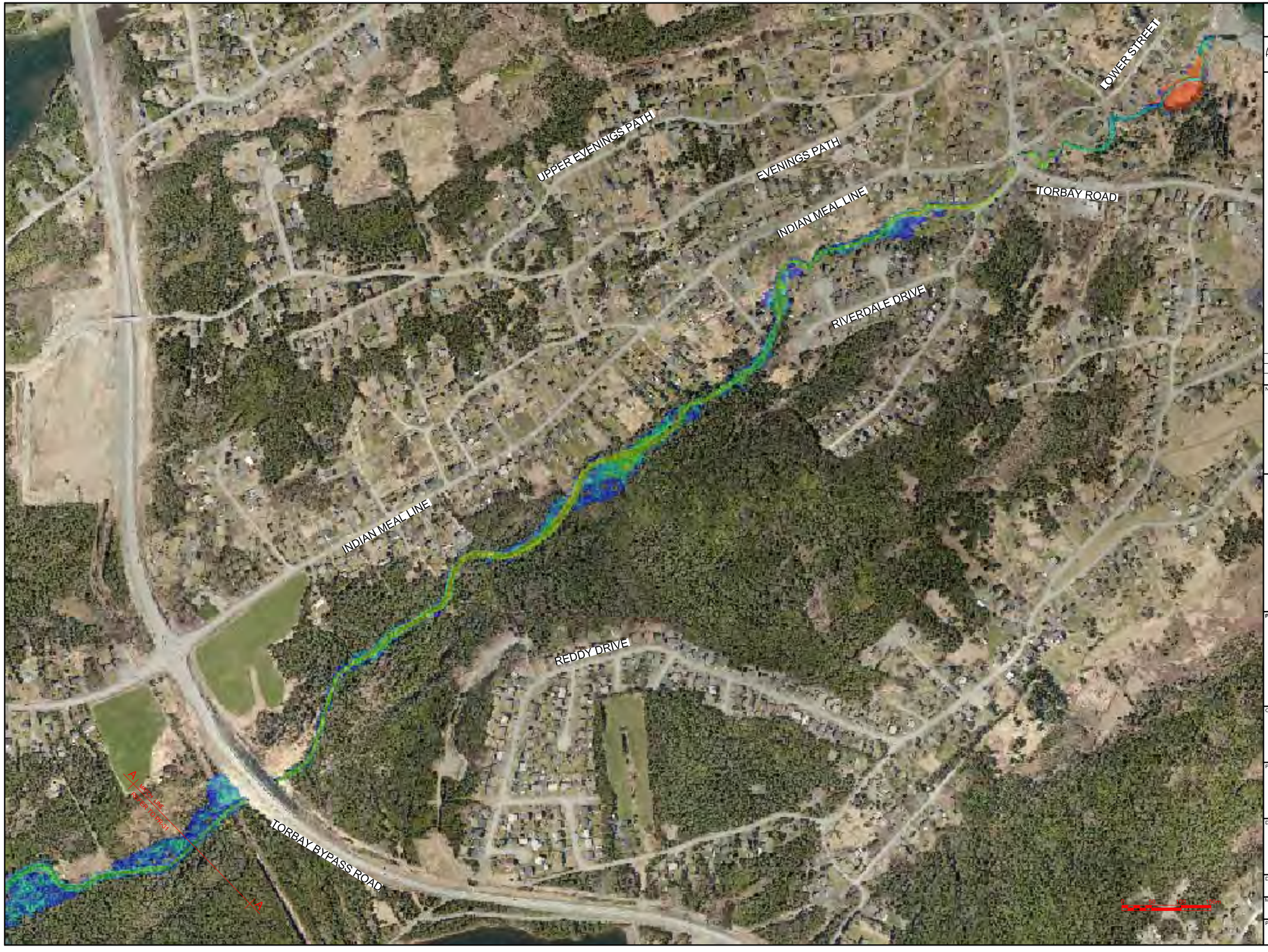
2018-021	PR-31	



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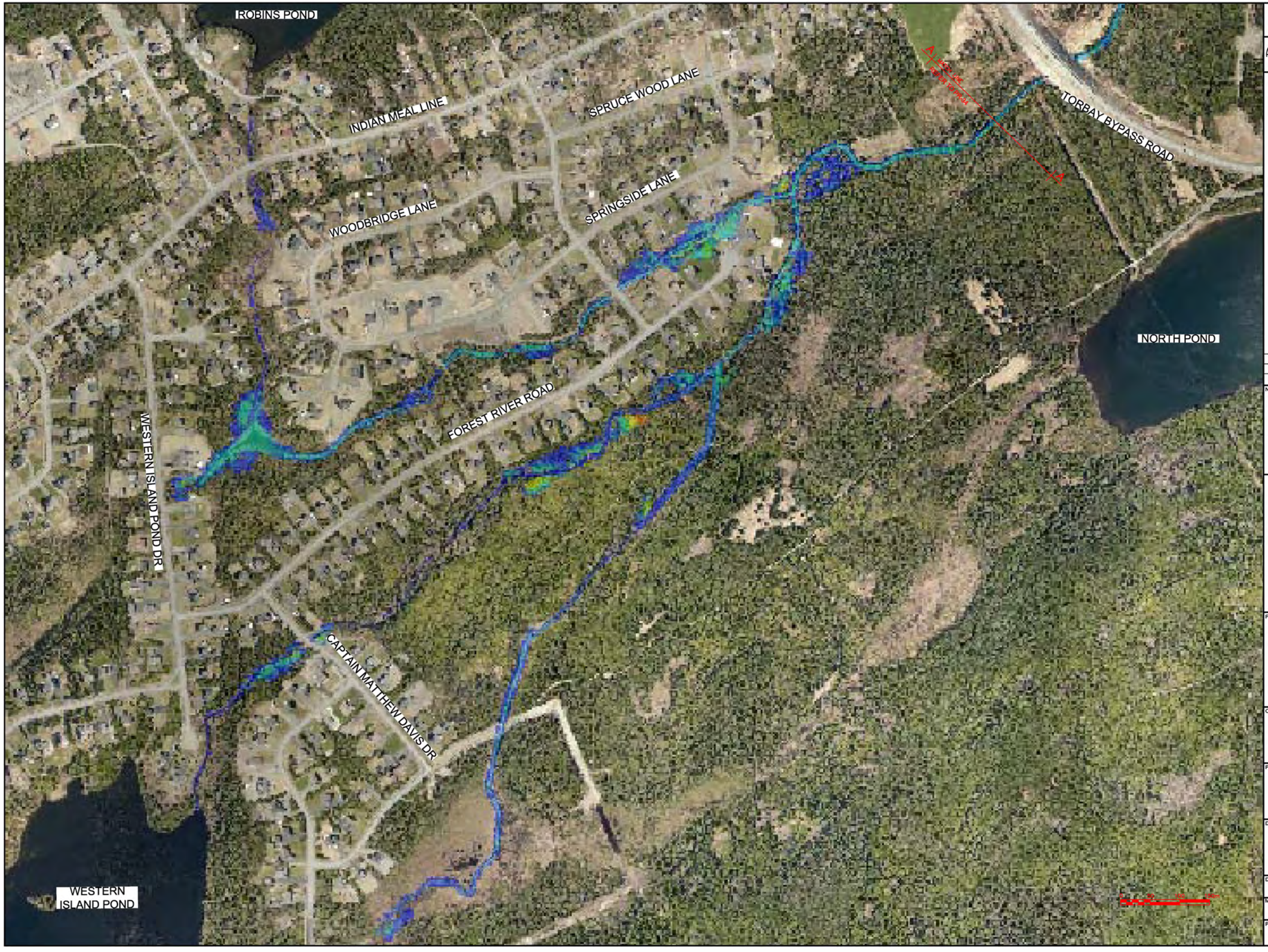
DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS
100 YR - 24 HR CC (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-32	



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A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG N0566
which is valid for the year 2019

OWNER/CLIENT NAME:
TOWN OF TORBAY

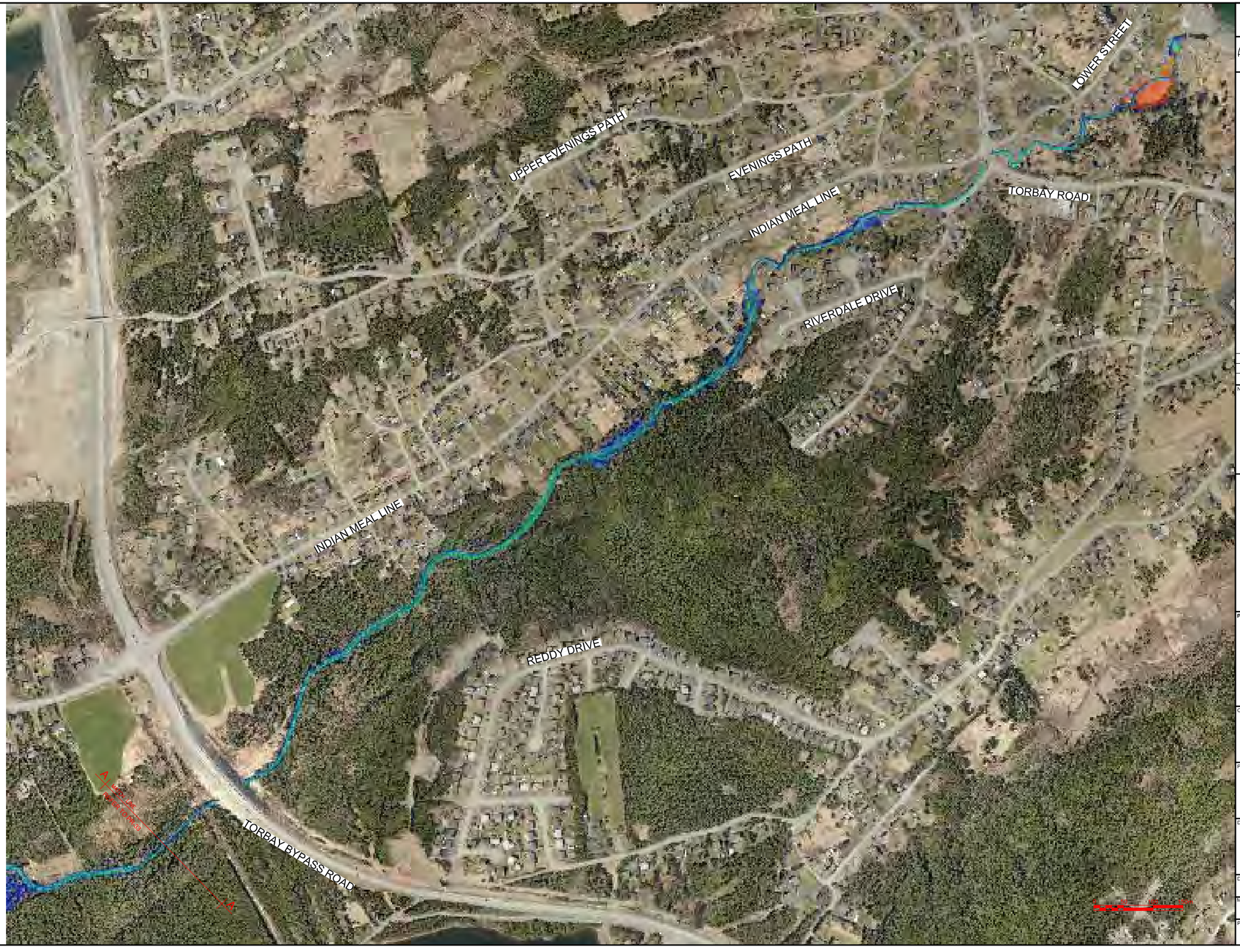
PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - IGOR (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	

MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN

PROJECT No:	DRAWING No:	REV:
2018-021	PR-33	



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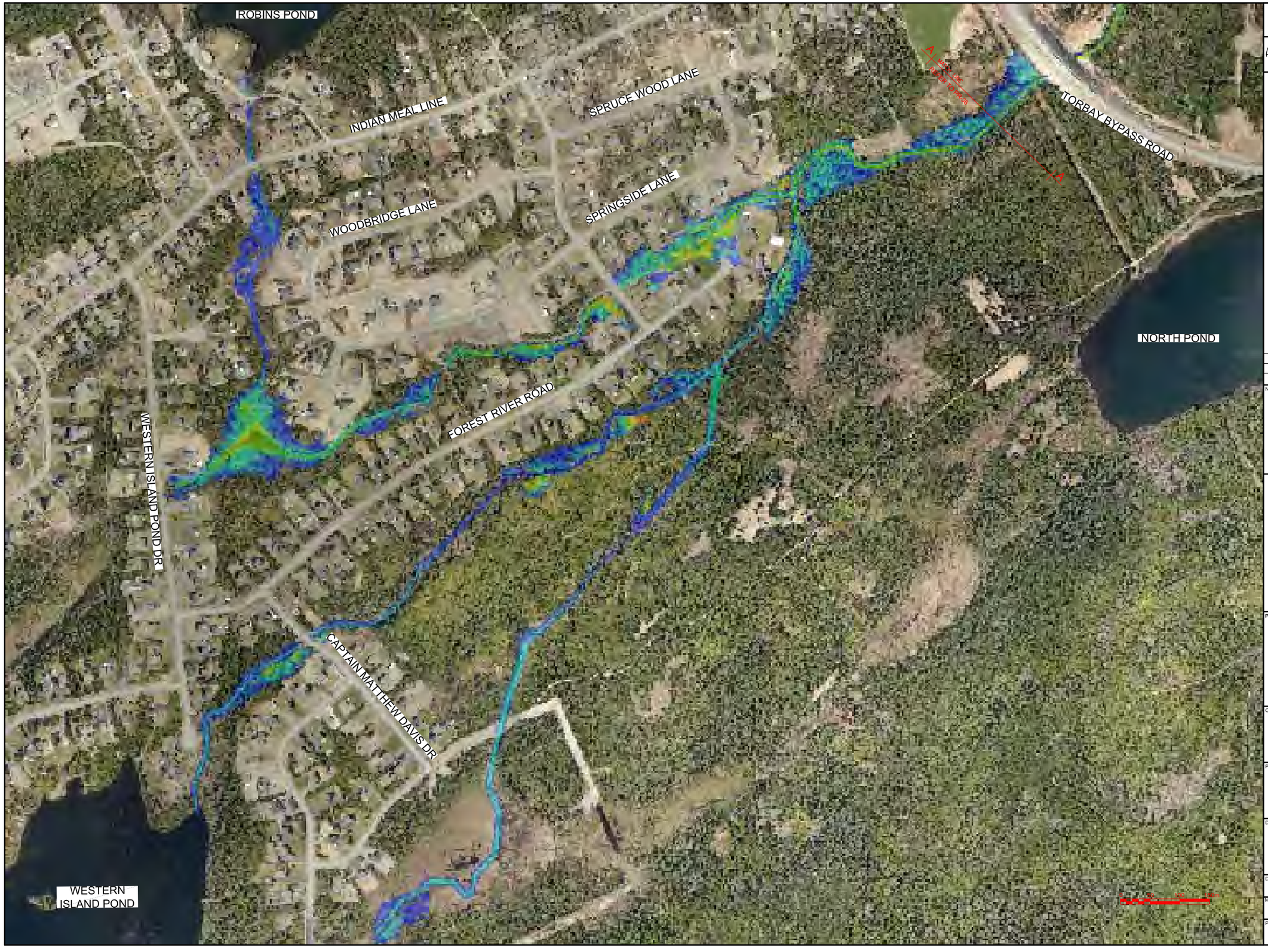
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - IGOR (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-34	



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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - IGOR (1 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-35	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

NORTH:

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TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
ISLAND POND BROOK FLOODPLAIN EXTENTS 100 YR - IGOR (2 OF 2)

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-36	

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Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND
FLOODPLAIN EXTENTS
100 YR - 1 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-37	

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. REPRODUCTIONS OF THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED. REFER TO GRAPHIC SCALE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND FLOODPLAIN EXTENTS 100 YR - 2 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-38	

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. REPRODUCTIONS OF THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED. REFER TO GRAPHIC SCALE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

A
B C

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Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND
FLOODPLAIN EXTENTS
100 YR - 6 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-39	

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Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND FLOODPLAIN EXTENTS 100 YR - 12 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-40	

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
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Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND
FLOODPLAIN EXTENTS
100 YR - 24 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-41	

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND FLOODPLAIN EXTENTS IGOR

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-42	

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

NORTH:

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WHITEWAY POND FLOODPLAIN EXTENTS CHANTEL

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-43	

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
1.120
0.995
0.871
0.747
0.622
0.498
0.373
0.249
0.124
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND
FLOODPLAIN EXTENTS
100 YR - 1 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-44	

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Max Water Depth
1.120
0.995
0.871
0.747
0.622
0.498
0.373
0.249
0.124
0.000

No.	REVISIONS	APP	DWN	DATE

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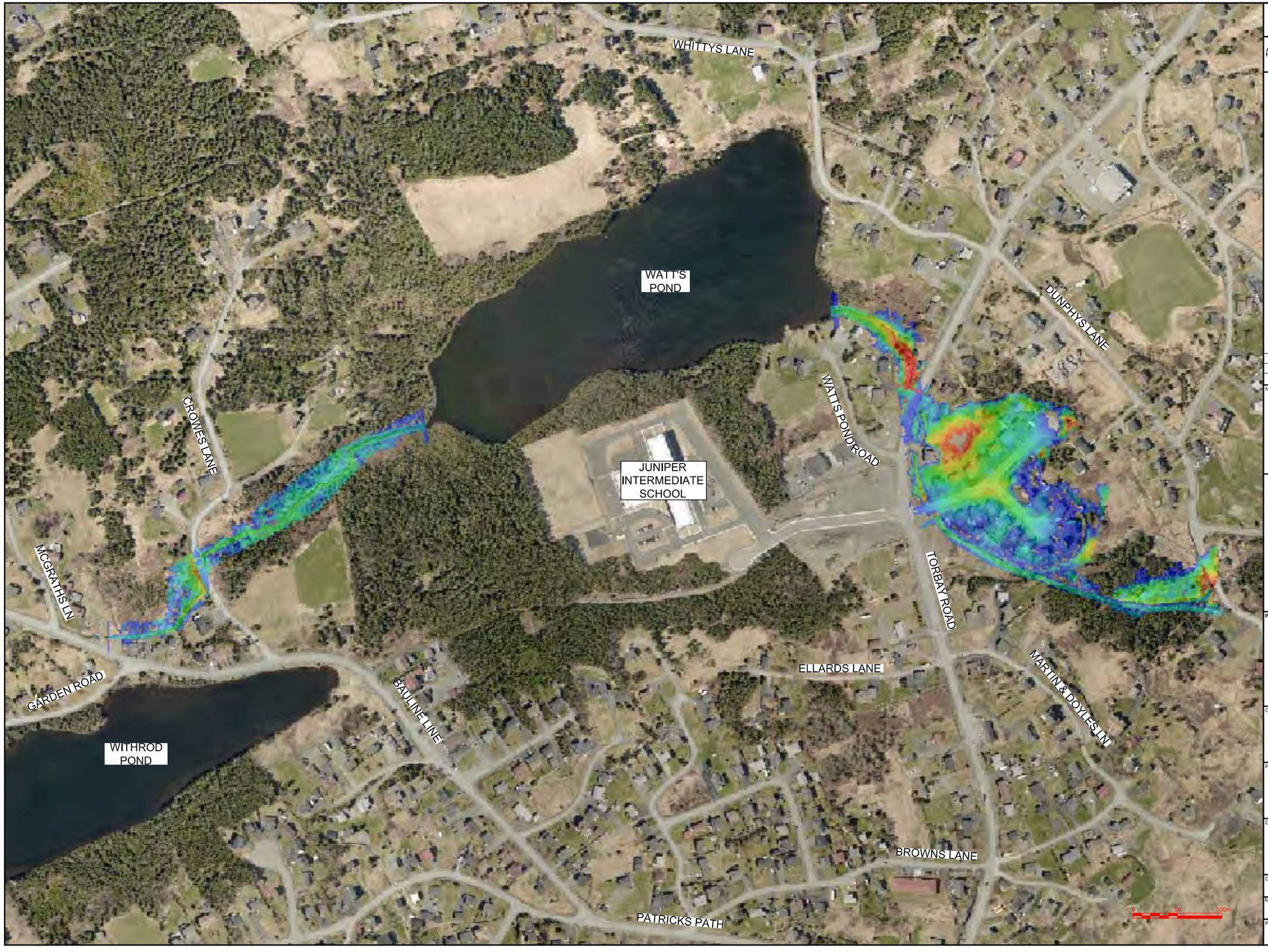
PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND
FLOODPLAIN EXTENTS
100 YR - 6 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-46	



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No.	REVISIONS	APP	DWN	DATE

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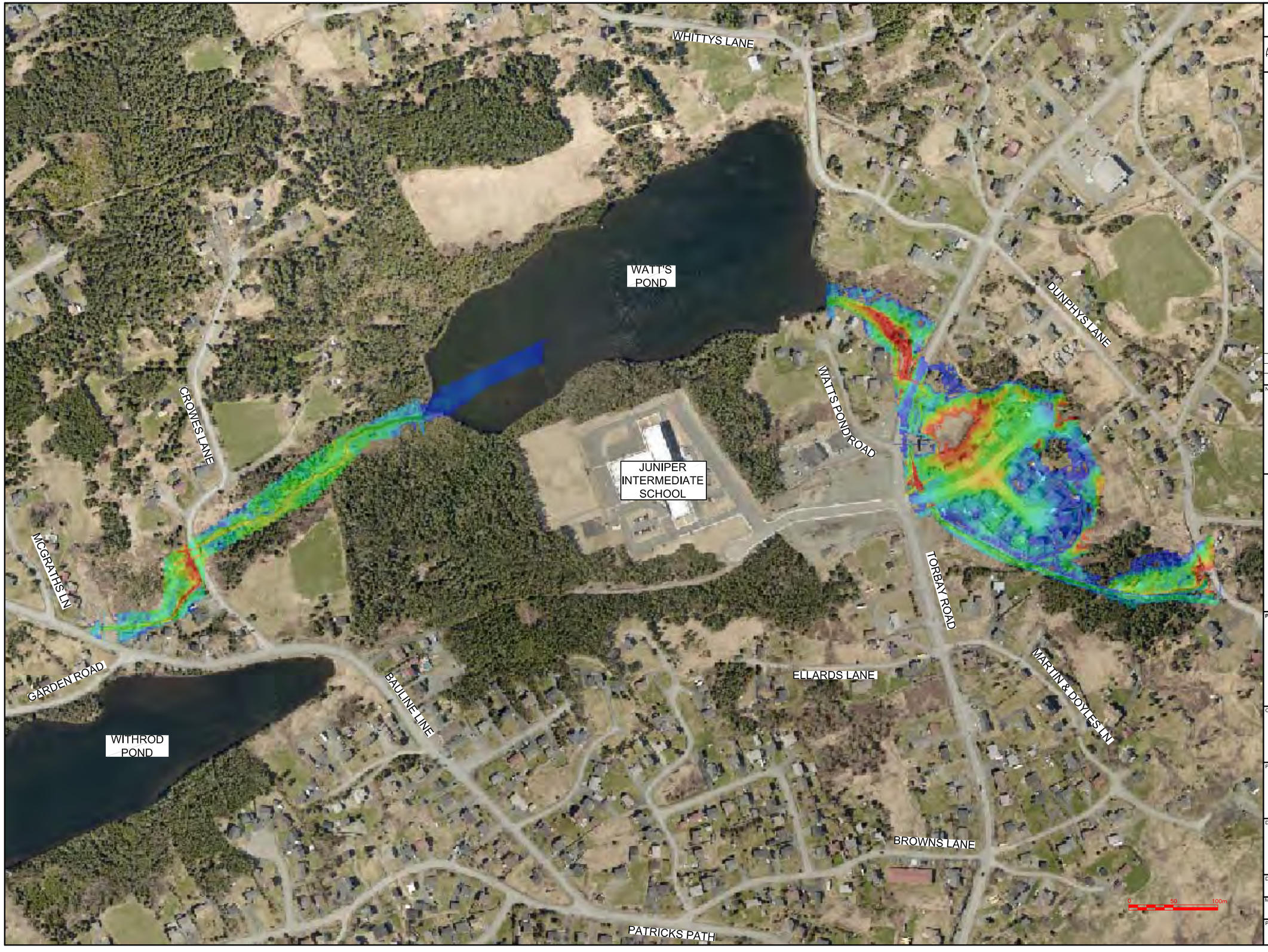
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND
FLOODPLAIN EXTENTS
100 YR - 12 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-47	



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0.871
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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND FLOODPLAIN EXTENTS 100 YR - 24 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-48	

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0.995
0.871
0.747
0.622
0.498
0.373
0.249
0.124
0.000

No.	REVISIONS	APP	DWN	DATE

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PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND
FLOODPLAIN EXTENTS
IGOR

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-49	

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
1.120
0.995
0.871
0.747
0.622
0.498
0.373
0.249
0.124
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
WATTS POND FLOODPLAIN EXTENTS CHANTEL

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-50	

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A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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which is valid for the year 2019

OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK FLOODPLAIN EXTENTS 100 YR - 1 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-51	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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Permit No. as issued by PEG N0566
which is valid for the year 2019

OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK FLOODPLAIN EXTENTS
100 YR - 2 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-52	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK FLOODPLAIN EXTENTS 100 YR - 6 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-53	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK FLOODPLAIN EXTENTS 100 YR - 12 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-54	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK DRIVE FLOODPLAIN EXTENTS 100 YR - 24 HR CC

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-55	

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. REPRODUCTIONS OF THIS DRAWING MAY HAVE BEEN REDUCED OR ENLARGED. REFER TO GRAPHIC SCALE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK DRIVE FLOODPLAIN EXTENTS IGOR

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-56	

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A
B C

A - PLAN, SECTION, ELEVATION, OR DETAIL No.
B - No. OF DRAWING WHERE 'A' IS ON SITE PLAN
C - No. OF DRAWING WHERE 'A' IS DETAILED

Max Water Depth
3.743
3.327
2.911
2.496
2.080
1.664
1.248
0.832
0.416
0.000

No.	REVISIONS	APP	DWN	DATE

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OWNER/CLIENT NAME:
TOWN OF TORBAY

PROJECT TITLE:
TORBAY STORMWATER MANAGEMENT PLAN

DRAWING TITLE:
KENNEDYS BROOK DRIVE FLOODPLAIN EXTENTS CHANTEL

DRAWN BY:	DESIGNED BY:	APPROVED BY:
CL	CL	
MAE No:	DATE:	SCALE:
N/A	NOV 2018	AS SHOWN
PROJECT No:	DRAWING No:	REV:
2018-021	PR-57	