Last Underwater Inspection

Inventory Data:							
Structure Name	#40 Ross Bridge,	Lot 10/1	1,Conc. I, Elzevir				
Main Hwy/Road#	On X		Crossing	Navig. V Rail	Water 1 Road	Non-Navig Ped.	. Water Other
Hwy/Road Name	Bosley Road		40				
Structure Location	1.80 km W of Queens	borough R	Road				
Latitude	44.577672°N		Longitude	77.3945	69°W		
Owner(s)	Municipality of Tweed	l	Heritage Not Designation:	t Cons. X Desig./n	Cons./not A	app. Li Desig. & L	st/not Desig.
MTO Region	Eastern		Road Class: Fre		Arterial	Collector	
MTO District	Kingston		Posted Speed 80		No, of La	anes 1	
Old County			AADT		% Trucks	s	
Geographic Twp.			Inspection Route Seq	quence			
Structure Type	T-Beam		Interchange Number				
Total Deck Length	13.0	(m)	Interchange Structure	Number			
Overall Str. Width	5.8	(m)	Min. Vertical Clearan	nce	2m		(m)
Total Deck Area	75	(sq.m)	Special Routes T	ransit	Truck S	School	Bicycle
Roadway Width	4.9	(m)	Detour Length Aroun	d Bridge	8.4		(km)
Skew Angle	0	(Deg.)	Direction of Structure	÷	East-Wes	t	
No. of Spans	1		Fill on Structure		0		(m)
Span Lengths	11.1						(m)
Historical Data:							
Year Built	1923		Last Evaluation				
Last Biennial Inspecti	on 2020-09-10		Current Load Limit	:	19-28-39		(tonnes)
Last BridgeMaster Ins	spection		Load Limit By-Lav	v#	2020-57		
Last Condition Survey	y		By-Law Expiry Da	te			

Appraisal Indices:	Comments
Fatigue	
Seismic	
Scour	
Flood	
Geometrics	
Barrier	
Curb	
Load Capacity	

Field Inspection In	formation:
Date of Inspection:	June 2, 2022
Inspector:	Abdul Rahman Stott
Others in Party:	Cody Chambers
Equipment Used:	Camera and Hand Tools
Weather:	Partly Cloudy
Temperature:	19°C

Additional Investigations Required:	Priority					
	None	Normal	Urgent			
Detailed Deck Condition Survey:	X					
Non-destructive Delamination Survey of Asphalt-Covered Deck:	X					
Substructure Condition Survey:	X					
Detailed Coating Condition Survey:	X					
Underwater Investigation:	X					
Fatigue Investigation:	X					
Seismic Investigation:	X					
Structure Evaluation:		X				
Monitoring of Deformations, Settlements and Movements:		X				

The structure is generally in poor condition and shows signs of structural distress.

Recommended actions:

- Replace structure (1-5 yrs.)
- Provide continuous monitoring until structure is replaced as part of structure maintenance
- Install missing maximum tonnes sign and hazard sign as part of structure maintenance

BCI (2020): 27.03 BCI (2022): 25.64

Next Detailed Visual Inspection:	2024	
	•	

Susp	pected Performance Deficiencies				
00	None	06	Bearing not uniformly loaded/unstable	12	Slippery surfaces
01	Load carrying capacity	07	Jammed expansion joint	13	Flooding/channel blockage
02	Excessive deformations (deflections & rotations)	08	Pedestrian/vehicular hazard	14	Undermining of foundation
03	Continuing settlement	09	Rough riding surface	15	Unstable embankments
04	Continuing movements	10	Surface ponding	16	Other
05	Seized bearings	11	Deck drainage		
Maii	ntenance Needs				
01	Lift and Swing Bridge Maintenance	07	Repair of Structural Steel	13	Erosion Control at Bridges
02	Bridge Cleaning	08	Repair of Bridge Concrete	14	Concrete Sealing
03	Bridge Handrail Maintenance	09	Repair of Bridge Timber	15	Rout and Seal
04	Painting Steel Bridge Structures	10	Bailey bridges - Maintenance	16	Bridge Deck Drainage
05	Bridge Deck Joint Repair	11	Animal/Pest Control	17	Other
06	Bridge Bearing Maintenance	12	Bridge Surface Repair		

Element Data

Floment Crown		outments		Length		N/A					
Element Group		outment Wa	lla.	Width		6m					
		ther end of s									
Location:				Height		3m					
Material:		st-in-place		Count							
Element Type:		nventional	Closed	Total Qua		48m2	2				
Environment:		nign		Limited I	nspection			Perform.	36.		
Protection Syste		ne		Good Fair			D #	Maint.			
Condition	Un		Exc.	Good Fair 0 5			Poor*	Deficiencies	Needs		
Data:	m ² 0 0 5 25 01 ts: Typical severe scaling, spalling, and separation at construction joints. Spall under north girder at east end										
Comments: Typ	oical severe	scaling, spa	lling, and sepa	ration at con	struction jo	ints. S	pall under no	rth girder at east en	d		
Recommended	5.00		None	6-10	years	l-5 yea	\mathbf{x} \mathbf{X} <1	year Urg	gent		
Provide continu	ious monito	ring and rep	lace					, 			
structure											
Element Group	: At	outments		Length		4m					
Element Name:		ingwalls		Width		N/A					
Location:	Al	l four quadr	ants	Height		3m					
Material:	Ca	st-in-place	Concrete	Count		4					
Element Type:				Total Qua	ntity:	48m ²	2				
Environment:	Me	oderate		Limited I							
Protection Syste	em:			-				Perform.	Maint.		
Condition	Un	its	Exc.	Good	Fair		Poor*	Deficiencies	Needs		
Data:	m	2	0	0	28		20	00			
Comments: Typ	oical wide c	racking at co	onstruction join	nts and sever	e scaling. S	Southea	ast wingwalls	has separated from	the rest of		
the abutment			•				0				
Recommended	Work:		None	6-10	vears	I-5 yea	rs X <1	year Urg	gent 🔲		
Provide continu		ring and rep			,	,	X	, U	,• <u> </u>		
structure		0 1									
Element Group		proaches		Length		5m					
Element Name:		earing Surfa		Width		4.9m	le:				
Location:	Ei	ther end of o	leck	Height							
Material:	As	phalt		Count		2					
Element Type:				Total Qua	intity:	49m ²	2				
Environment:		vere		Limited I	nspection						
Protection Syste	em: No	ne						Perform.	Maint.		
Condition	Un		Exc.	Good	Fair		Poor*	Deficiencies	Needs		
Data:	m		0	25	10		19	00	02		
Comments: Loc accumulation	calized patcl	ned/unpatch	ed potholes and	d settlement.	Wide allig	ator cr	acks and une	ven riding surface.	Debris		
Recommended	Work:		None	v 6-10	years	1-5 yea	rs 🗆 <1	year Urg	gent 🔲		
Recommended	WOIK.		None	X 0-10	years	1-5 yea		year	gent		

MTO	Site	Niim	her

Element Group:	App	roaches		Length		20			
Element Name:	Barr	riers	2.0	Width					
Location:	Wes	st approach	, south edge	Height					
Material:	Stee			Count		1			
Element Type:	Stee	l flex bean	n on steel	Total Qua	ntity:	20m			
	post	S			•				
Environment:	Seve			Limited Ir	spection				
Protection System								Perform.	Maint.
Condition	Units		Exc.	Good	Fair	Poor	*	Deficiencies	Needs
Data:	m		0	0	0	20		00	
Comments: All s				ss, rust jack	ing, and lig		corrosio	on. Typical deforma	tion of
Recommended V	Work: Install	code-	None	6-10	vears	1-5 years X	7 <1	year Urge	ent 🗍
compliant roadsi					, can s	-5 years X			
structure replace		n as part of							
structure replace	ment.								
Element Group:	Barr	riers		Length		13m			
Element Name:	Rail	ing System	ns	Width					
Location:	Eith	er edge of	deck	Height		1.2m			
Material:	Stee	:1		Count		2			
Element Type:	Stee	l Post and	Lattice	Total Qua	ntity:	26m			
Environment:	Seve	ere		Limited Ir	spection				
Protection System	m: Non	ie						Perform.	Maint.
Condition	Units		Exc.	Good	Fair	Poor	*	Deficiencies	Needs
Data:	m		0	0	20	6		08	
Comments: Not	code compli	ant. Light	to moderate co	rrosion in st	eel. Collisio	on damage w	ith brok	en segments and de	eformation.
	Tour Tourpu								
Railing is tilting	outwards. C	oncrete en	d walls are in r	oor conditie	on with sca		ration, v	wide cracking, and	are
						ling, disinteg		wide cracking, and end wall at northw	
discontinuous wi	ith barrier. A	double C	-channel barrie			ling, disinteg		wide cracking, and end wall at northw	
	ith barrier. A	double C	-channel barrie			ling, disinteg			
discontinuous wi	ith barrier. A onal roadsid	double C	-channel barrie	r has been b	olted to the	ling, disinteg original barr	rier and	end wall at northw	est quadrant
discontinuous wi to provide additi Recommended V	ith barrier. A onal roadsid Work:	double Ce e protectio	-channel barrie n. None		olted to the	ling, disinteg	rier and		est quadrant
discontinuous wi	ith barrier. A onal roadsid Work:	double Ce e protectio	-channel barrie n. None	r has been b	olted to the	ling, disinteg original barr	rier and	end wall at northw	est quadrant
discontinuous wi to provide additi Recommended V Provide continuo	ith barrier. A onal roadsid Work:	double Ce e protectio	-channel barrie n. None	r has been b	olted to the	ling, disinteg original barr	rier and	end wall at northw	est quadrant
discontinuous wi to provide additi Recommended V Provide continuo	ith barrier. A onal roadsid Work:	double Ce e protectio	-channel barrie n. None	r has been b	olted to the	ling, disinteg original barr	rier and	end wall at northw	est quadrant
discontinuous wi to provide additi Recommended V Provide continuo structure	ith barrier. A onal roadsid Work: ous monitori	a double C e protection	-channel barrie n. None	r has been b	olted to the	ling, disinteg e original barn 1-5 years X	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous structure Element Group:	ith barrier. A onal roadsid Work: ous monitori: Bea	a double C e protection ng and rep	-channel barrie n. None	6-10	olted to the	ling, disinteg e original barn 1-5 years X	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous tructure Element Group: Element Name:	ith barrier. A onal roadsid Work: ous monitori Bea Girc	a double Company and rep	-channel barrie n. None [lace	6-10 Length Width	olted to the	ling, disinteg original barral-5 years X	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous tructure Element Group: Element Name: Location:	ith barrier. A onal roadsid Work: ous monitori Bea Girc Und	a double Company and repute ms/MLEs ders	-channel barrie n. None [lace	Length Width Height	olted to the	ling, disinteg e original barn 1-5 years X	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous tructure Element Group: Element Name: Location: Material:	ith barrier. A onal roadsid Work: ous monitori Bea Girc Und	a double Company and rep	-channel barrie n. None [lace	Length Width Height Count	olted to the	ling, disinteg original barral original barral original orig	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type:	ith barrier. A onal roadsid Work: ous monitori Bea Girc Und	ms/MLEs derside of det-in-place (-channel barrie n. None [lace	Length Width Height Count Total Qua	years 1	ling, disinteg original barr 1-5 years X 12.5m 0.4m 0.7m 4 90m²	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous tructure Element Group: Element Name: Location: Material:	Bea Girc Und Cast	ms/MLEs ders derside of d t-in-place (ype ign	-channel barrie n. None [lace	Length Width Height Count	years 1	ling, disinteg original barral original barral original orig	rier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type:	Bea Girc Und Cast	ms/MLEs ders derside of d t-in-place (ype ign	-channel barrie n. None [lace	Length Width Height Count Total Qua	years 1	ling, disinteg original barr 1-5 years X 12.5m 0.4m 0.7m 4 90m²	rier and	end wall at northw year Urg	est quadrant ent Maint.
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment:	Bea Girc Und Cast	ms/MLEs ders derside of d t-in-place (ype ign	-channel barrie n. None [lace	Length Width Height Count Total Qua	years 1	ling, disinteg original barr 1-5 years X 12.5m 0.4m 0.7m 4 90m²	ier and	end wall at northw	est quadrant
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System	Bea Girc Und Cast T-T Ben m: Non	ms/MLEs ders derside of d t-in-place (ype ign	-channel barrie n. None [lace	Length Width Height Count Total Qua	ntity:	ling, disinteg coriginal barr 1-5 years X 12.5m 0.4m 0.7m 4 90m²	ier and	end wall at northw year Urg	est quadrant ent Maint.
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data:	Bea Girc Und Cast T-T Ben m: Non	ms/MLEs ders derside of det-in-place (sype ign lee	-channel barrien. None lace Exc. 0	Length Width Height Count Total Qua Limited In	ntity: respection Fair 35	ling, disinteg e original barr 1-5 years X 12.5m 0.4m 0.7m 4 90m² □	* *	end wall at northw year Urg. Perform. Deficiencies	est quadrant ent Maint. Needs
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data:	Bea Girc Und Cast T-T Ben m: Non Units m² ere scaling ir	ms/MLEs derside of det-in-place (sype) ign are s a double C	lace Exc. 0 ear cracks at er	Length Width Height Count Total Qua Limited In Good 20 d of south b	ntity: nspection Fair 35 eam. Typic	1-5 years X 1-5 years X 1-5 years X 1-6 years X 1-7 years X 1-8 years X 1-9 years 35 ye	* sion and	Perform. Deficiencies 01 spalling with expos	est quadrant ent Maint. Needs
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data: Comments: Seve corroded rebar in	Bea Girc Und Cast T-T Ben Mon Units m² ere scaling ir n interior bea	ms/MLEs derside of det-in-place (sype) ign are s a double C	lace Exc. 0 ear cracks at er	Length Width Height Count Total Qua Limited In Good 20 d of south b ngitudinal cr	ntity: nspection Fair 35 eam. Typic acking on i	12.5m 0.4m 0.7m 4 90m² Poor stal delamination terior beam	* sion and	Perform. Deficiencies 01 spalling with expos	est quadrant ent Maint. Needs
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data: Comments: Seve corroded rebar in	Bea Girc Und Cast T-T Ben Mone Units m² ere scaling ir n interior bea	ms/MLEs ders derside of det-in-place Gype ign ign ies n webs. Sho	eck Concrete Exc. 0 ear cracks at erized narrow local	Length Width Height Count Total Qua Limited In Good 20 d of south b	ntity: nspection Fair 35 eam. Typic acking on i	1-5 years X 1-5 years X 1-5 years X 1-6 years X 1-7 years X 1-8 years X 1-9 years 35 ye	<pre> <!-- Intercolor of the image is a second color of the im</td--><td>Perform. Deficiencies 01 spalling with expos</td><td>Maint. Needs</td></pre>	Perform. Deficiencies 01 spalling with expos	Maint. Needs
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data: Comments: Seve corroded rebar in	Bea Girc Und Cast T-T Ben Mone Units m² ere scaling ir n interior bea	ms/MLEs ders derside of det-in-place Gype ign ign ies n webs. Sho	eck Concrete Exc. 0 ear cracks at erized narrow local	Length Width Height Count Total Qua Limited In Good 20 d of south b ngitudinal cr	ntity: nspection Fair 35 eam. Typic acking on i	12.5m 0.4m 0.7m 4 90m² Poor stal delamination terior beam	<pre> <!-- Intercolor of the image is a second color of the im</td--><td>Perform. Deficiencies 01 spalling with expost end.</td><td>Maint. Needs</td></pre>	Perform. Deficiencies 01 spalling with expost end.	Maint. Needs
discontinuous wito provide additi Recommended V Provide continuous structure Element Group: Element Name: Location: Material: Element Type: Environment: Protection System Condition Data: Comments: Seve corroded rebar in	Bea Girc Und Cast T-T Ben Mone Units m² ere scaling ir n interior bea	ms/MLEs ders derside of det-in-place Gype ign ign ies n webs. Sho	eck Concrete Exc. 0 ear cracks at erized narrow local	Length Width Height Count Total Qua Limited In Good 20 d of south b ngitudinal cr	ntity: nspection Fair 35 eam. Typic acking on i	12.5m 0.4m 0.7m 4 90m² Poor stal delamination terior beam	<pre> <!-- Intercolor of the image is a second color of the im</td--><td>Perform. Deficiencies 01 spalling with expost end.</td><td>Maint. Needs</td></pre>	Perform. Deficiencies 01 spalling with expost end.	Maint. Needs

MTO Site Number

Element Grou	p:	Decks		Length		13m							
Element Name	e:	Deck Top - Th	in Slab	Width		5.8n	า						
Location:		Spanning betw abutments	een	Height									
Material:		Cast-in-place C	Concrete	Count		1							
Element Type	:			Total Qua	ntity:	75.4	m ²						
Environment:		Severe		Limited In	spection	X							
Protection Sys	stem:	None						Perform.	Maint.				
Condition		Units	Exc.	Good	Fair		Poor*	Deficiencies	Needs				
Data:		m ²	0	45.4	30		0	01					
Comments:													
Recommended Provide continuation structure		nitoring and repl	None [6-10 y	years	-5 yea	ars X <1	year Urg	ent				
Flores Corre		Dooles		T1		12							
Element Group		Decks	11.	Length		13m							
Location:	e:	Soffit – Thin S Underside of d		Width		5.8n	1						
Material:		Cast-in-place C		Height Count		1							
Element Type		Cast-III-place C	oncrete	Total Quar	ntitr	75.4	2						
Environment:	•	Benign		Limited In		<u> </u>	m-						
Protection Sys	tom:	None		Limited II	ispection			Doufoum	Maint				
Condition	iciii.	Units	Exc.	Good	Fair	D *							
Data:		m ²	0	0	71.4	-	Poor*	21 W / St. W.	Needs				
	acalized s	17.77		1,700		Typic		0.700	oleing with				
corrosion stair	ning	spannig with exp							8 5.				
Recommended Provide continustructure		nitoring and repl	None [6-10 y	years X	-5 yea	ars X	year Urg	ent				
Element Group	p:	Decks		Length		13m	ÿ.						
Element Name	e:	Wearing Surface	ce	Width		4.9n	1						
Location:		Covering deck		Height									
Material:		Asphalt		Count		1							
Element Type:	:			Total Quar	ntity:	63.7	m^2						
Environment:		Severe		Limited In	spection								
Protection Sys	stem:							Perform.	Maint.				
Condition		Units	Exc.	Good	Fair		Poor*	Deficiencies	Needs				
Data:		m ²	0	53.7	10		0	00	02				
Comments: Exabrasions near			ion near deck e	edges and lig	to medi	um ra	velling. Wide t	ransverse cracking	, patches, and				
Recommended of regular main		Clean deck as a p	part None	X 6-10 y	/ears 1	-5 yea	ars <1	year Urg	ent				

MT	O Si	to N	11177	har
VII	() .)	C	11111	110

Element Group:	Embankment	s & Streams	Length		N/	A			
Element Name:	Embankment	S	Width		N/	N/A			
Location:	Side slopes o	fabutments	Height		N/	A			
Material:			Count		4				
Element Type:			Total Qua	antity:	4				
Environment:			Limited I						
Protection System	1:						Perform.	Maint.	
Condition	Units	Exc.	Good	Fair		Poor*	Deficiencies	Needs	
Data:	Each	0	2	0		2	00		
	e erosion on west en		- 6.10						
Recommended W	ork:	None	X 6-10	years	1-5 y	/ears <1	year Urge	ent	
Element Group:	Embankment	s & Streams	Length		N/	'A			
Element Name:	Streams and	ALIEN THE PROPERTY OF THE PROP	Width		N/	1000			
Location:	Between abut		Height		N/				
Material:			Count		N/				
Element Type:			Total Qua	antity:	Al				
Environment:			Limited I			•			
Protection System	· ·		Emitted 1	порестоп			Perform.	Maint.	
Condition	Units	Exc.	Good	Fair		Poor*	Deficiencies	Needs	
Data:	All	Exc.	Good	All	1001		00	riccus	
	n flows north to sou	th		7111			.00		
Recommended W	ork:	None	X 6-10	years	1-5 y	years <1	year Urgo	ent	
					_				
Element Group:	Foundations		Length		N/				
Element Name:		pelow grnd lvl)	Width		N/				
Location:	Buried substr		Height		N/				
Material:	Cast-in-place	Concrete	Count	10000	N/				
Element Type:			Total Qua		N/	'A			
Environment:			Limited I	nspection					
Protection System							Perform.	Maint.	
Condition	Units	Exc.	Good	Fair		Poor*	Deficiencies	Needs	
Data:	All	0	0	0		0	00		
Comments:									
Recommended W Provide continuou structure	ork: is monitoring and re	None	6-10	years	1-5 y	years X <1	year Urgo	ent	

Element Group:	Sidewalks/Cur	Sidewalks/Curbs			13m			
Element Name:	Curbs	Curbs			0.2m			
Location: Either edge of deck		deck	Height		0.1m			
Material:	Cast-in-place (Cast-in-place Concrete			2			
Element Type:				antity:	5.4m ²			
Environment:	Severe			nspection				
Protection System	n: None	None				Perform.	Maint.	
Condition	Units			Fair	Poor*	Deficiencies	Needs	
Data:	m ²	0	0	4.9	0.5	00		
Comments: Light to severe scaling. Severe accumulation of gravel debris.								
Recommended Work: Provide continuous monitoring and replace structure None 6-10 years 1-5 years X <1 year Urgent Urgent								
Element Group: Accessories Element Name: Signs			Length Width		N/A N/A			
Element Name: Signs Location: All four quadrants		Height	2001-01070-030-05					
Material: Steel		ants	Count		6			
					6			
Element Type:	Element Type: Hazard Marker signs and Maximum Tonnes signs		Total Quantity:		O .			
Environment:	ent: Severe			Limited Inspection				
Protection System: Perform. Ma							Maint.	
Condition	Units	Exc.	Good	Fair	Poor*	Deficiencies	Needs	
Data:	All	0	3	1	2	00		
Comments: Southwest sign is misaligned. East max. tonnes sign is missing and northeast hazard sign is missing. West max. tonnes and south hazard signs are deformed.								
Recommended W Install missing ha signs.	ork: zard and max. tonnes	None	6-10	years	1-5 years	year X Urgo	ent	

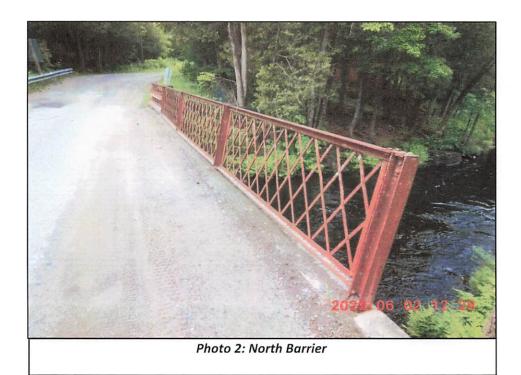
BRIDGE PHOTOGRAPHS

Owner: Municipality Of Tweed Hwy/Road Name: Bosley Road

Structure Name: Ross Bridge Location: 1.00 km west of Queensborough Road



Photo 1: East Approach and Deck Top Looking West



BRIDGE PHOTOGRAPHS

Owner: Municipality Of Tweed Hwy/Road Name: Bosley Road Structure Name: Ross Bridge

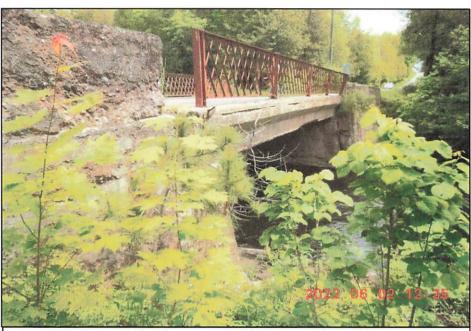
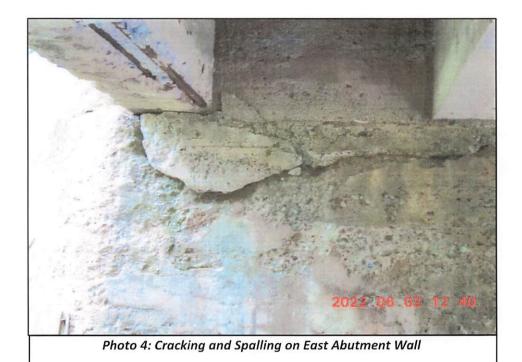


Photo 3: South Barrier, Fascia, and T-Beam

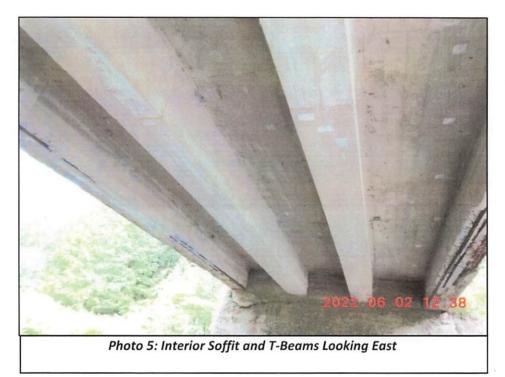


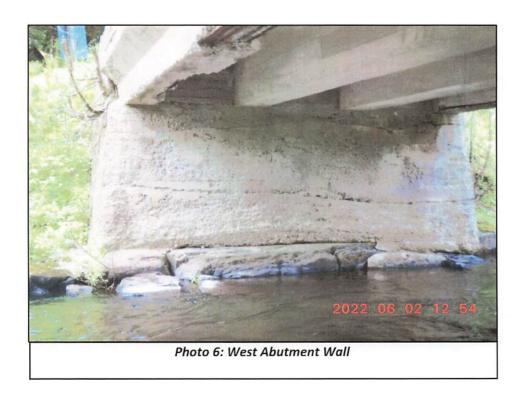
Ross Bridge

BRIDGE PHOTOGRAPHS

Owner: Municipality Of Tweed

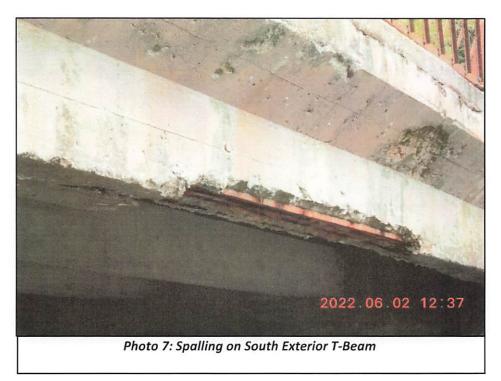
Structure Name: Ross Bridge Hwy/Road Name: Bosley Road

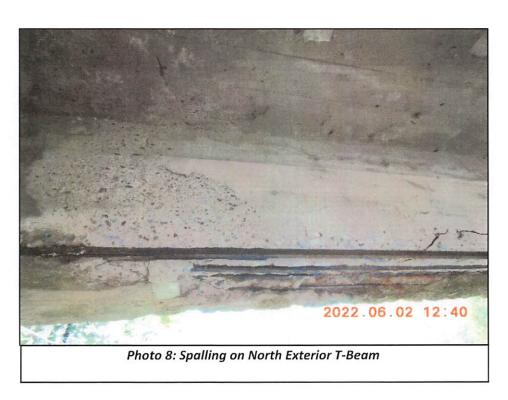




BRIDGE PHOTOGRAPHS

Owner: Municipality Of Tweed Hwy/Road Name: Bosley Road Structure Name: Ross Bridge

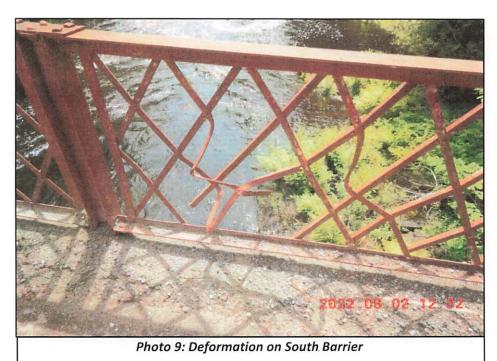


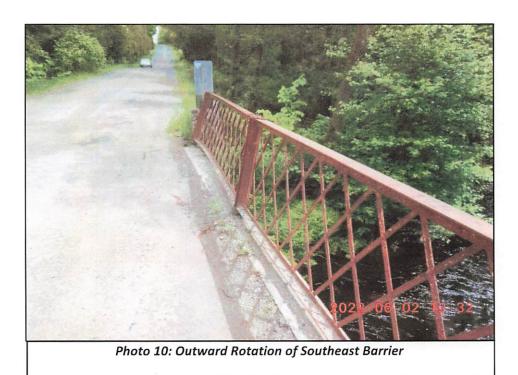


BRIDGE PHOTOGRAPHS

Owner: Municipality Of Tweed Hwy/Road Name: Bosley Road

Structure Name: Ross Bridge





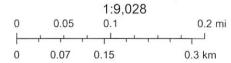
Ross Bridge Location



2/8/2023, 4:13:28 PM

Civic Addresses

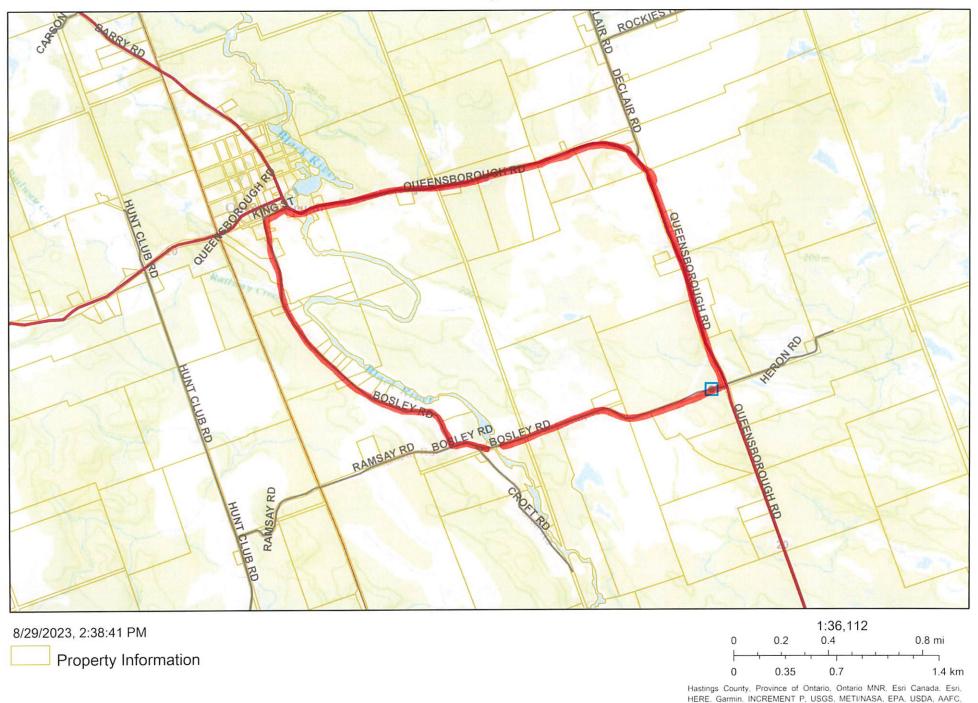
Property Information



Hastings County, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA,

Hastings County GIS

Ross Bridge Detour



Hastings County GIS