

ADDENDUM #2 Community Planning & Permitting Preliminary Design of Crossings at Kenosha Road at Coal Creek and State Highway 7 at Dry Creek #3 RFP # 7210-21

March 10, 2021

The attached addendum supersedes the original Information and Specifications regarding RFP # 7210-21 where it adds to, deletes from, clarifies or otherwise modifies. All other conditions and any previous addendums shall remain unchanged.

Please see the attached Exhibit A: Kenosha Road at Coal Creek Project Location Details and Planned Creek Improvements at the end of this document.

Please note: Due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.

1. Question: Would it be possible to get any load rating and/or bridge inspection reports for these existing structures?

ANSWER: Please see the attached documents at the end of this addendum for the bridge inspection reports.

2. Question: Page 15 of the RFP states: "The response to this RFP, for items A-F below, is limited to a maximum of 20 8.5"x11" pages, excluding example alternatives analysis report, front and back covers, signature page, W-9, and proof of insurance, using no smaller than 11-point font and no less than 0.5" margins."

Would you consider excluding divider tabs from the 30-page limit, as well as the front and back covers?

ANSWER: Yes, divider tabs and front and back covers can be excluded from the page limit. Note, the limit is 20 pages, not 30 pages.

3. Question: Can you confirm that an alternatives analysis is not required for the SH 7 crossing?

ANSWER: This is correct. An alternatives analysis is not required for the CO 7 project.

4. Question: For task item 2.1, does Boulder County Public Works plan to schedule and facilitate the open houses? And is the consultant's responsibility limited to providing the exhibits for the meetings as described?

ANSWER: Boulder County will schedule, advertise, and facilitate the open houses. Consultant should plan on providing exhibits and having representative(s) attend the meetings to answer questions.

5. Question: Is the CO 7 Corridor Development Plan available for viewing?

ANSWER: The CO 7 Corridor Development Plan is available here.

6. Question: Task 3.2 – What is meant by preliminary utility investigation? Does the County want a SUE Quality Level B report or something less?

ANSWER: Consultant to determine utilities (e.g. engineering ticket) within the project areas and whether the utilities are within their own easement and if they are above or below ground. No SUE level reporting is required.

7. Question: In reference to optional tasks 5.2 and 5.3 within the Task Table.

Task 5.2 – What is meant by supplemental Survey? A topographic survey of the project site is needed to compare existing and proposed roadway, bridge, and channel contours. The use of existing data as mentioned in task 3.1 may not be accurate enough for preliminary design.

ANSWER: As consultant has indicated, using existing data in task 3.1 will not be enough for a very thorough hydraulic analysis. However, the project has limited budget and may have to make do with what is available. If budget allows, survey of the pertinent stream cross-sections would be ideal.

Task 5.3 – It appears that a preliminary structure design is desired by the County. A Geotechnical Analysis and Report would be required to produce preliminary bridge plans. Would the County consider a Geotechnical Report as a required task?

ANSWER: The project has a limited budget and therefore for the needs of this project, preliminary structure design includes length of structure, width of

structure, structure clearance, girder type (e.g. steel, concrete) and need for piers. Based on that information and not knowing the geotechnical properties prepare a small write up of which foundation type (pile, caisson) may work better for the bridge type and potential soil conditions.

8. Question: What stream restoration area should be evaluated as part of this project. The Figure prepared by Icon shows a significantly larger upstream area for stream restoration than the other figure.

ANSWER: The ICON study covers a much larger stretch of Coal Creek, much of which is underway in one form or another. The ICON exhibit was included to give context for the work that is happening in the area. This project needs to look at realignment options and restoration needs from Kenosha Road downstream across the boulder county-owned property and underneath the irrigation ditch structure.

9. Question: Are the CHAMP models for Dry Creek and Coal Creek 1D or 2D models

ANSWER: The floodplain models for Dry Creek and Coal Creek are both 1D models. Note, the model for Coal Creek is recent, but not technically part of the CHAMP model.

Submittal Instructions:

Submittals are due at the email box <u>only</u>, listed below, for time and date recording on or before **10:00 a.m. Mountain Time on March 19, 2021.**

Please note that email responses are limited to a maximum of 50MB capacity. NO ZIP FILES OR LINKS TO EXTERNAL SITES WILL BE ACCEPTED. Electronic Submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email <u>purchasing@bouldercounty.org</u>; identified as **RFP # 7210-21** in the subject line.

All proposals must be received and time and date recorded at the purchasing email by the above due date and time. Sole responsibility rests with the Offeror to see that their bid is received on time at the stated location(s). Any bid received after due date and time will be returned to the bidder. No exceptions will be made.

The Board of County Commissioners reserve the right to reject any and all bids, to waive any informalities or irregularities therein, and to accept the bid that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.



RECEIPT OF LETTER ACKNOWLEDGMENT

March 10, 2021

Dear Vendor:

This is an acknowledgment of receipt of Addendum #2 for RFP #7210-21, Preliminary Design of Crossings at Kenosha Road at Coal Creek and State Highway 7 at Dry Creek #3.

In an effort to keep you informed, we would appreciate your acknowledgment of receipt of the preceding addendum. Please sign this acknowledgment and email it back to purchasing@bouldercounty.org as soon as possible. If you have any questions, or problems with transmittal, please call us at 303-441-3525. This is also an acknowledgement that the vendor understands that due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.

Thank you for your cooperation in this matter. This information is time and date sensitive; an immediate response is requested.

Sincerely,		
Boulder County Purchasing		
Signed by:	Date:	
Name of Company		

End of Document

Colorado Department of Transportation

Highway Number (ON) 5D: 007C Mile Post (ON) 11: 57.106 mi

Structure Inspection and Inventory Report (English Units)

Bridge Key: D-16-	BW	Inspection Date:	08/07/2017	Sufficiency Rating: 60.0	FO
NBI Reporting ID:	D-16-BW	Main Mat/Desgn 43A/B:	1 19	Bridge Cost 94:	\$165977
Rgn/Sect 2E/2M:	41	Appr Mat/Desgn 44A/B:	0 0	Roadway Cost 95:	\$16598
Tran Region 2T:	02	Main Spans Unit 45:	2	Total Cost 96:	\$182575
County Code 3:	013	Approach Spans 46:	0	Year of Cost Estimate 97:	2017
BOULDER	'	Horiz Clr 47:	29.30 ft	Brdr Brdg Code/% 98A/B:	-2
Place Code 4:	00000	Max Span 48:	16.6 ft	Border Bridge Number 99:	
non-city		Str Length 49:	34.9 ft	Defense Highway 100:	0
Rte.(On/Under) 5A:	1	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Parallel Structure 101:	N
Signing Prefix 5B:	3	Width Curb to Curb 51:	29.30 ft	Direction of Traffic 102:	2
Level of Service 5C:	1	Width Out to Out 52:	31.1 ft	Temporary Structure 103:	
Direction Suffix 5E:	0	Deck Area:	1085	Highway Systems 104:	1
Feature Intersected 6:		Min Clr Ovr Brdg 53:	99.99	Fed Lands Hiway 105:	0
DRAW		Min Undrclr Ref 54A:	N	Year Reconstructed 106:	
Facility Carried 7:		Min Undercir 54B:	0.0 ft	Deck Type 107:	N
SH 7 ML		Min Lat Clrnce Ref R 55		Wearing Surface 108A:	N
Alias Str No.8A:		Min Lat Undrclr R 55B:	0.0 ft	Membrane 108B:	N
, mao on 140.07 t.		Min Lat Undrclr L 56:	0.0 ft	Deck Protection 108C:	N
Prll Str No. 8P:		Deck 58:	N	Truck ADT 109:	4.00 %
N/A		Super 59:	N	Trk Net 110:	1
Location 9:		Sub 60:	N	Pier Protection 111:	-
0.35 MI E OF 75th ST		Channel/Protection 61:	6	NBIS Length 112:	Y
Max Clr 10:	99.99	Culvert 62:	5	Scour Critical 113:	8
BaseHiway Net12:	1	Oprtng Rtg Method 63:	0 Field Evaluation		
IrsinvRout 13A:	00000007C	Operating Rating 64:	40.0	Future ADT 114:	29,800
IrssubRout No13B:	00	Operating Factor 64:		Year of Future ADT 115:	2031
Latitude 16:	40d 00' 52.60"	Inv Rtng Method 65:	0 Field evaluation	1	СВС
Longitude 17:	105d 10' 18.00"		36.0	CDOT Constr Type 120B:	02
Detour Length 19:	3 mi	Inventory Rating 66: Inventory Factor 66:	00.0	-	02
Toll Facility 20:	3	-	18.0 in	Inspection Indic 122A:	0.00
Custodian 21:	01	Asph/Fill Thick 66T:		Inspection Trip 122AA:	_
Owner 22:	01	Str. Evaluation 67:	5	Scheduling Status 122B:	0
Functional Class 26:	02	Deck Geometry 68:	2	Maintenance Patrol 123:	13
Year Built 27:	1928	Undrclr Vert/Hor 69:	N	Expansion Dev/Type 124:	0
Lanes On 28A:	2	Posting 70:	5 At/Above Lega	1	F 0
Lanes Under 28B:	0	Waterway Adequacy 71		Posting Trucks 129A/B/C:	0.0 0.0 0.0
ADT 29:	20,000	Approach Alignment 72	8	Str Rating Date 130:	10/20/2011
Year of ADT 30:	2011	Type Of Work 75A:	-2	Special Equip 133:	Unknown
Design Load 31:	2 M 13.5 (H 15)	Work Done By 75B:	!	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	27.00 ft	Length of Improvment 7	6: 35	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Median 33:	0	Insp Team Indicator 908	STANTEC	Vertical Clr Date:	01/01/1901
Skew 34:	53 °	Inspector Name 90C:	BUTKOVICHJ	Weight Limit Color 139:	0, White
Structure Flared 35:	0	Frequency 91:	24 months	Str Billing Type:	U
Sfty Rail 36a/b/c/d:	0 0 0 0	FC Frequency 92A:		Userkey 1, Insp System:	ONSYS
Rail ht36h:	25.0 in	UW Frequency 92B:		Userkey 4, Insp Sched:	EVN AUG G14
Hist Signif 37:	5	SI Frequency 92C:		Userkey 5, UW Sched:	
Posting status 41:	A	FC Inspection Date 93A		Userkey 6, Pin Sched:	
	1 5	UW Inspection Date 93		Userkey 7, 113 Doc Date:	
Service on/un 42A/B:	l l	SI Date (Pins) 93C:		OSCINCY 1, 113 DUC Date.	BPDJ

Inspector Name: BUTKOVICHJ Data Responsibility: Asset Management Rating Fri 09/29/2017 8:10:56 CDOT_SIA Version 8d - 8/25/2017

Structure ID: D-16-BW Page 1 of 4

Colorado Department of Transportation

Highway Number (ON) 5D: 007C

Mile Post (ON) 11: 57.106 mi

Structure Inspection and Inventory Report (English Units)

Element Inspection Report

Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
241/1	Re Conc Culvert	ft	104	0%	0	83%	86	17%	18	0%	0
2 Call 40 ft W v 4 ft Ll concrete boy gulyort											

2-Cell 10 ft W x 4 ft H concrete box culvert.

1010/1	Cracking	ft	1	0%	0	100%	1	0%	0	0%	0
	Į s s s s s s s s s s s s s s s s s s s		vertical cracks op								
			ertical crack at the				-	-			
		is 15.)				,			3		,
1080/1	Delamination/Spall/Patche	edft	10	0%	To .	0%	То	100%	10	0%	0
			scale and spalling								
		•	er spall in base of								
			e joint with the wir						•		
			ed rebar near Wal	•		3					
1190/1	Abrasion(PSC/RC)	ft	91	0%	0	91%	83	9%	8	0%	0
	,	Moder	ate to heavy strea	m abrasio	n with exposed	aggregat	te on the floor	of both ce	ells, and light to	moderate	;
			abrasion near the		-				-		
			4 ft at both ends n				•				
			y is 96.)		•	•			·		
6000/1	Scour	ft	2	0%	0	100%	2	0%	0	0%	0
		2015:	1 ft to 2 ft of scou	r at the inle	et end of Cell 2	. Approx	imately 6 Inche	es of scou	r at outlets.		•
			4 inches of scour				-				
33/1	Other Bridge Railing	ft	70	66%	46	34%	24	0%	О	0%	0
	Journal Bridge Haming		(W-beam railing								
		• • •	s in the posts.	with timbe	i posis). Tillib	ei posis i	oned to the he	auwans.	Some light to h	nouerate	
		CHECKS	s in the posts.								
	12		L.	1	1	1 - 0.1	1.	1 - 0 /	1-	1.00/	1.
515/1	Steel Protective Coating		70	100%	70	0%	0	0%	0	0%	0
		Galvar	nized.								
3440/	1 Eff (Stl Protect Coat)	ft	21	100%	21	0%	0	0%	0	0%	0
	-	No sig	nificant defects.						-		
327/1	Culvert Wingwalls	(EA)	4	0%	0	25%	1	75%	3	0%	0
·	James and James	, ,	concrete wingwa				nt scale on all	1		1 - / -	
			ear is spalled at t		stream abrasio	ii and ligi	it scale on all.				
		-	or spall at the botte	-	ear						
			re ft spall on right		our.						
			meter spall in left		tiunction with V	Vall 3.					
			al cracks at the int		•						
			g is exposed 6 inc								
335/1	Culvert Headwalls	(EA)	2	0%	To	50%	1	50%	1	0%	0
			liagonal cracks sp				dwall	1		1 - / -	
		-	ft headwall has a		-	ingini nea	avvaii.				
			on the top of the ri	•							
501/1	loh					T 00/	To	100/	To.	Lon	In
501/1	Channel Cond	· ,	1	100%	1	0%	0	0%	0	0%	0
			Fair alignment. A	•					ear round flow	in both ce	IIS.
		Fencin	g across the char	nnel downs	stream about 2	5 ft from t	ne end of the o	culvert.			
502/1	ChannProtMatCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
		Rock r	iprap on upstream	n banks, gr	routed on the re	ear bank.	Up to 2 ft diar	neter rock	riprap at the e	nd of the	left
		rear w	ingwall (left rear b	ank) appe	ars to be adequ	uate. Sor	ne asphalt pla	ced at the	end of the left	forward	
			all. No significant				-				
504/1	BankCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
	1-211100110	\ - ~)	Ι,	10070	1.	J /3	1,	J 70		J 70	ı

Many large trees downstream. Thick grass and weeds.

Colorado Department of Transportation

Highway Number (ON) 5D: 007C

Mile Post (ON) 11: 57.106 mi

Structure Inspection and Inventory Report (English Units)

9505/1	Debris Smart Flag	(EA)	1	100%	1	0%	0	0%	0		0%	0
		Small	branches on upstr	eam nose	of divider wall							
	I	l	T.	1.000/	1.	Lasz	1-	1.00	- Ia		Lanz	T _a
9530/1	Approach Guardrail A		1	100%	1	0%	0	0%			0%	0
			tions are not doubl spacers are also b		rails are not io	ng enougi	n, and ends	s are turn	ea aown.			
		/ low		TORCH.								
9600/1	Genl Remarks	(EA)	1	100%	1	0%	0	0%	0		0%	0
			/BR Structure over	rtopped di		•	oding ever	nt per res	ident adjace	ent to th		•
			has been remove									
			FLOOD - 50% clog way Adequacy cha					moved pri	ior to 2017 i	nenoct	ion	
		vvaleri	way Adequacy Cha	inged to 4	ioi tilis event.	Debits II	as been lei	noveu pri	101 10 20 17 1	nspeci	1011.	
Maintana	naa Aativitus Cummans											
	nce Activity Summary					_		.				
MMS Acti	vity Description					Recomn	nended	Status	Target Ye	ar —— —	Est Cost	
356.00	Bridge Rail-Upgra	ade				8/7/2	017		2019	- 11	63450	
Install a	dequate bridge and ap	proach	rail.						-			
	and denote arrange arrange	P										
250.05	Cura a materiu atuma. D	i-C	`~~~*			1 0/7/0	047	٦	2040	$\neg \vdash$	1000	
358.05	Superstructure-R	epair C	oncrete			8/7/2	017	J <u>├</u>	2019	┙┖	1000	
Clean a	nd patch the various s	palls in	the walls, top	slab, he	adwalls, an	d wingw	alls.					
360.03	Converted Work	Candid	ates			5/19/	2014	<u>-1</u>	2019	\Box [:	300	
	k (2 cu yds) at inlet en	d of bot	th colle and ale	na tho r	ight forward		all footing	J L				
Add 100	k (2 cu yus) at illiet eli	u oi bo	ui cells and alc	ing the i	igni iorward	ı willywa	ali iootiiig	J -				
B												
Bridge N	otes											
Hazard	Reflective Panel at the	Right	Rear corner or	nlv								
	BR 1 to 2 ft of scour at			y .								
L	2 to 2 it of 500df at		3311 // L.									
Inspection	on Notes											
Times	7:20 AM Tama: 50	doa== -) \\\o = th = :	Claudy	liabt rain							
ı ime:	7:20 AM Temp: 56	uegree	s Weather:	Cloudy,	light rain							

 CDOT_SIA
 Version 8d - 8/25/2017
 Structure ID: D-16-BW
 Fri 09/29/2017 8:10:56

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Highway Number (ON) 5D: 007C _ Mile Post (ON) 11: 57.106 mi

Scop	oe:							
$ \sqrt{} $	NBI	$\overline{\checkmark}$	Element	☐ Underwater	Fracture Critical		Other	Type: Regular NBI
_								
Tean	n Leader Ins	spect	ion Check-off:					
	FCM's					Vertical	Clearance	
	Posting S	Signs	8			Stream E	Bed Profile	
	Essential	l Re _l	pair Verification					
Insp	ection Team	n: <u>ST/</u>	ANTEC					
Insp	ection Date:	: 08/0	7/2017					
						Inspecto	r: Unknown	
							. (**	IMA DULTIKO VIOLI
						inspecto	r (Team Leader): J	IM BUTKOVICH

 CDOT_SIA
 Version 8d - 8/25/2017
 Structure ID: D-16-BW
 Fri 09/29/2017
 8:10:56

 Page 4 of 4

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: -1 mi

Linear Ref. Sys. MP: 0.000 mi

Bridge Key: ER	I-KENOSHA	Inspection Date:	08/31/2020	Sufficiency Rating: 83.4	ND
NBI Reporting ID:	BC-38-7.9-CO	Main Mat/Desgn 43A/B:	5 04	Bridge Cost 94:	0.00
Rgn/Sect 2E/2M:	41	Appr Mat/Desgn 44A/B:	0 00	Roadway Cost 95:	0.00
Tran Region 2T:	02	Main Spans Unit 45:	1	Total Cost 96:	0.00
County Code 3:	013	Approach Spans 46:	0	Year of Cost Estimate 97:	2018
013 BOULDER		Horiz Clr 47:	26.00 ft	Brdr Brdg Code/% 98A/B:	-2 0.00
Place Code 4:	24950	Max Span 48:	29.0 ft	Border Bridge Number 99:	0
ERIE		Str Length 49:	31.5 ft	Defense Highway 100:	0
Rte.(On/Under) 5A:	1	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Parallel Structure 101:	N
Signing Prefix 5B:	5	Width Curb to Curb 51:	26.00 ft	Direction of Traffic 102:	2
_evel of Service 5C:	1	Width Out to Out 52:	28.0 ft	Temporary Structure 103:	
Direction Suffix 5E:	0	Deck Area:	882	Highway Systems 104:	0
Feature Intersected 6		Min Clr Ovr Brdg 53:	99.99	Fed Lands Hiway 105:	0
Coal Creek	•		N	Year Reconstructed 106:	
Facility Carried 7:		Min Undrclr Ref 54A: Min Underclr 54B:	0.0 ft	Deck Type 107:	1
Kenosha Rd (CR 38)		Min Lat Clrnce Ref R 55A		Wearing Surface 108A:	6
Alias Str No.8A:		Min Lat Undrclr R 55B:	0.0 ft		0
ERI-KENOSHA	I	Min Lat Undrcir L 56:	0.0 ft	Membrane 108B: Deck Protection 108C:	0
Prll Str No. 8P:		Deck 58:	7		4.00 %
)		Super 59:	6	Truck ADT 109:	0
ocation 9:		Sub 60:	7	Trk Net 110: Pier Protection 111:	
0.2 Mi W of Co Rd 90	1	Channel/Protection 61:	6	1	Y
Max Clr 10:	99.99	Culvert 62:	N N	NBIS Length 112:	5
BaseHiway Net12:	0	Oprtng Rtg Method 63:	0 Field eval and	Scour Critical 113:	N
•	000000000		40.0	Scour Watch 113M:	3,370
rsinvRout 13A:	00	Operating Rating 64:	40.0	Future ADT 114:	2036
rssubRout No13B: _atitude 16:	40d 04' 10.00"	Operating Factor 64:	O Field and and	Year of Future ADT 115:	
ongitude 17:	105d 03' 32.50"	Inv Rtng Method 65:	0 Field eval and	CDOT Str Type 120A:	CDTPG
	2 mi	Inventory Rating 66:	36.0	CDOT Constr Type 120B:	21
Detour Length 19:	3	Inventory Factor 66:		Inspection Indic 122A:	
Foll Facility 20: Custodian 21:	03	Asph/Fill Thick 66T:	7.0 in	Inspection Trip 122AA:	Unknown
Owner 22:	03	Str. Evaluation 67:	6	Scheduling Status 122B:	
Functional Class 26:	19	Deck Geometry 68:	4	Maintenance Patrol 123:	0
rear Built 27:	1965	Undrclr Vert/Hor 69:	N	Expansion Dev/Type 124:	В
anes On 28A:	2	Posting 70:	5 At/Above Lega	Brdg Rail Type/Mod 125A/B:	F 2
anes Under 28B:	0	Waterway Adequacy 71:	7	Posting Trucks 129A/B/C:	0.0 0.0 0.0
ADT 29:	1,994	Approach Alignment 72:	8	Str Rating Date 130:	03/16/1997
ear of ADT 30:	2016	Type Of Work 75A:	-2	Special Equip 133:	0.00
Design Load 31:	5 MS 18 (HS 20)	Work Done By 75B:		Vert Clr N/E 134A/B/C:	X 99.90 0.00
Apr Rdwy Width 32:	24.00 ft	Length of Improvment 76	3: 0	Vert Clr S/W 135A/B/C:	X 99.90 0.00
Median 33:	0	Insp Team Indicator 90B		Vertical Clr Date:	01/01/1901
Skew 34:	0 °	Inspector Name 90C:	BRUNOM	Weight Limit Color 139:	0, White
Structure Flared 35:	0	Frequency 91:	24 months	Str Billing Type:	IIC
Sfty Rail 36a/b/c/d:	0 0 0 0			Userkey 1, Insp System:	OFFSYS
Rail ht36h:	26.0 in	UW Frequency 92B:			ODD JUN N 0
	5	SI Frequency (Pin) 92C:	-	Userkey 4, Insp Sched:	CDD 3014 14_0
Hist Signif 37:		FC Inspection Date 93A:		Userkey 5, UW Sched: Userkey 6, Pin Sched:	
Posting status 41:	A	UW Inspection Date 93B		Inspection Key:	ZPGY
Service on/un 42A/B:	1 5	_	<u> </u>	Date Entered:	10/20/2020 12:
nspection Type:	Regular NBI	SI Date (Pin) 93C:		Entered By:	BRUNOM
Tabecholl Lybe:	Cogulai MDI			,-	

Wed 12/09/2020 11:12:13

Total Qty

Unit

Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: -1 mi

Linear Ref. Sys. MP: 0.000 mi

% in 1 Qty. St. 1 % in 2 Qty. St. 2 % in 3 Qty. St. 3 % in 4 Qty. St. 4

Element Inspection Report

Description

Elm/Env

CDOT_SIA

Version 9a - 10/26/2020

		Unit	Total Qty	% IN 1	Qty. St. 1	% In 2	Qty. St. 2	% IN 3	Qty. St. 3	% IN 4	Qty. St. 4
2/1 R	e Concrete Deck	sq.ft	882	100%	882	0%	0	0%	0	0%	0
		5 inch	thick topping slab	on 2 inch	double tee top	flange. No	ot visible.	•	•		•
			•		·	Ū					
510/1	Wearing Surfaces	sq.ft	819	100%	819	0%	О	0%	То	0%	То
010/1	T Wearing Surfaces					0 70	Į v	0 70	10	0 /0	Į ⁰
		/ IIICHE	es of asphalt. No s	igillicani	delects.						
							_				,
09/1 P	re Opn Conc Girder/Be	an ft	252	0%	0	100%	252	0%	0	0%	0
		(4) 24	inch x 7 foot 0 incl	h double t	tee girder section	ns, (8 gird	ders total). 21 i	nch long x	4 inch wide x	1 inch	
		deep s	pall in joint of sou	thwest en	d diaphragm.						
1090/1	Exposed Rebar	ft	29	0%	0	100%	29	0%	0	0%	0
		Expose	ed and corroded re	ebar (no s	section loss) ex	terior face	of Girder H at	Abutment	1 2 inches in	•	•
			er and along sout		-						
			loss) approximat	_	-	-				-	
				-	-					seu anu	
1110/1	Louis Lines (DOO)		ed rebar (no section				 		1	Too/	T ₀
1110/1	Cracking (PSC)	ft	222	0%	0	100%	222	0%	0	0%	0
		Cracks	up to 0.09 inches	wide in fi	illet of all girder	s. Full qua	intity of 252 in	CS2 not re	epresented in o	condition	
		states	to eliminate doubl	e counting	g						
15/1 R	e Conc Abutment	ft	56	95%	53	5%	3	0%	0	0%	0
		Concre	ete wall. Insignifica	ant width v	vertical and hor	izontal sur	face cracks.				
1120/1	Efflorescence/Rust S	tai ft	3	0%	То	100%	3	0%	0	0%	0
				0 / 0				0 / 0			
					•						•
		Few in	significant width v		d horizontal sur			cence app	roximately 3 fe		
		Few in			d horizontal sur			cence app	roximately 3 fe		
		Few ins	significant width v southwest corner	of Abutm	d horizontal sur nent 1.	face crack	s with effloreso			eet	<u></u>
02/1 C	ompressn Joint Seal	Few instance in few instance i	significant width v southwest corner	of Abutm	d horizontal sur			cence app	roximately 3 fe		0
02/1 C	ompressn Joint Seal	Few instance long in	significant width v southwest corner	of Abutm	d horizontal sur nent 1.	face crack	s with effloreso			eet	0
02/1 C	ompressn Joint Seal	Few instance long in	significant width v southwest corner	of Abutm	d horizontal sur nent 1.	face crack	s with effloreso			eet	0
02/1 C	ompressn Joint Seal	Few instance long in	significant width v southwest corner	of Abutm	d horizontal sur nent 1.	face crack	s with effloreso			eet	0
2/1 C	Compressn Joint Seal Debris Impaction	Few instance long in	significant width v southwest corner	of Abutm	d horizontal sur nent 1.	face crack	s with effloreso			eet	0
		Few in: long in ft At both	significant width v southwest corner 56 Abutments. Not v	of Abutm 0% visible.	d horizontal sur nent 1.	100%	s with effloreso	0%	0	eet 0%	
		Few in: long in ft At both	significant width v southwest corner 56 Abutments. Not v	of Abutm 0% visible.	d horizontal sur nent 1.	100%	s with effloreso	0%	0	eet 0%	
		Few in: long in ft At both	significant width v southwest corner 56 Abutments. Not v	of Abutm 0% visible.	d horizontal sur nent 1.	100%	s with effloreso	0%	0	eet 0%	
2350/1	Debris Impaction	Few in: long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot	of Abutm 0% visible. 0% h abutmen	d horizontal sur	100% 100% 100%	s with efflorescent 56 56 56 7 inches of as	0%	0	0%	0
2350/1		Few in: long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot	of Abutm 0% visible. 0% h abutmen	d horizontal surpent 1. 0 0 nts covered and	100% 100% 100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as the states are states as the states are states as the states are stat	0%	0	eet 0%	
2350/1	Debris Impaction	Few in: long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot	of Abutm 0% visible. 0% h abutmen	d horizontal surpent 1. 0 0 nts covered and	100% 100% 100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as the states are states as the states are states as the states are stat	0%	0	0%	0
2350/1	Debris Impaction	Few in: long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot	of Abutm 0% visible. 0% h abutmen	d horizontal surpent 1. 0 0 nts covered and	100% 100% 100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as the states are states as the states are states as the states are stat	0%	0	0%	0
2350/1 0/1 M	Debris Impaction	Few inclong in long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails	of Abutm 0% visible. 0% abutment 84% s on (5) 8	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch til	100% 100% 100% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as with efflorescent states are states as with efflorescent states are states are states as with efflorescent states are states	0% 0% phalt.	0	0% 0%	0
2350/1	Debris Impaction	Few inclong in long in ft At both ft Compr	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails	of Abutm 0% visible. 0% h abutmen	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch til	100% 100% 100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as the states are states as the states are states as the states are stat	0%	0	0%	0
2350/1 0/1 M	Debris Impaction	Few in long in fit At both ft Compr ft Galvar	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails	of Abutm 0% visible. 0% h abutmen 84% s on (5) 8	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch tin	100% 100% 100% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent states and states are states as with efflorescent states are states as with efflorescent states are states are states as with efflorescent states are states	0% 0% phalt.	0	0% 0%	0
2350/1 80/1 M	Debris Impaction	Few in long in fit At both ft Compr ft Galvar	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails	of Abutm 0% visible. 0% h abutmen 84% s on (5) 8	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch tin	100% 100% 100% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent services as with efflorescent services as the services of as the services	0% 0% phalt.	0	0% 0%	0
2350/1 80/1 M	Debris Impaction	Few in long in fit At both Ift Compr Ift Galvar	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails	of Abutm 0% visible. 0% h abutmen 84% s on (5) 8	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch tin	100% 100% 100% 1100% 1100% 1100% 1100% 1100% 1100% 1100%	s with efflorescent services as with efflorescent services as the services of as the services	0% 0% phalt.	0	0% 0%	0
2350/1 0/1 M 515/1	Debris Impaction letal Bridge Railing Steel Protective Coat	Few inclong in long in	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant	d horizontal surpent 1. 0 0 nts covered and 53 inch x 8 inch tire 63 defects.	100% 100% 100% 100% 16illed with 16% 100%	s with efflorescent shall be s	0% 0% 0%	0	0% 0% 0%	0
2350/1 0/1 M	Debris Impaction	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% abutmen 84% s on (5) 8 100% ignificant 0%	d horizontal surpent 1. 0 0 10 153 inch x 8 inch tin 63 defects.	100% 100% 100% 16// 16// 16// 16// 100%	s with efflorescent shall be seen as the second shall be s	0% 0% phalt.	0	0% 0%	0
2350/1 M	Debris Impaction letal Bridge Railing Steel Protective Coat	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% abutmen 84% s on (5) 8 100% ignificant 0%	d horizontal surpent 1. 0 0 10 153 inch x 8 inch tin 63 defects.	100% 100% 100% 16// 16// 16// 16// 100%	s with efflorescent shall be seen as the second shall be s	0% 0% 0%	0	0% 0% 0%	0
2350/1 M	Debris Impaction letal Bridge Railing Steel Protective Coat	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% abutmen 84% s on (5) 8 100% ignificant 0%	d horizontal surpent 1. 0 0 10 153 inch x 8 inch tin 63 defects.	100% 100% 100% 16// 16// 16// 16// 100%	s with efflorescent shall be seen as the second shall be s	0% 0% 0%	0	0% 0% 0%	0
2350/1 M 515/1 1150/1	Debris Impaction letal Bridge Railing Steel Protective Coat Check/Shake	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	face crack 100% 100% 100% 16% mber post: 0% 100% timber po	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are states a	0% 0% 0% 0%	0	0% 0% 0%	0
2350/1 M	Debris Impaction letal Bridge Railing Steel Protective Coat	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s 9 checks (approxima	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10% 0% 0%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	100% 100% 100% 16% 16% 100% 100% 100% 10	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are	0% 0% 0%	0	0% 0% 0%	0
2350/1 M 515/1 1150/1	Debris Impaction letal Bridge Railing Steel Protective Coat Check/Shake	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10% 0% 0%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	100% 100% 100% 16% 16% 100% 100% 100% 10	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are	0% 0% 0% 0%	0	0% 0% 0%	0
2350/1 M 515/1 1150/1	Debris Impaction letal Bridge Railing Steel Protective Coat Check/Shake	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s 9 checks (approxima	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10% 0% 0%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	100% 100% 100% 16% 16% 100% 100% 100% 10	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are	0% 0% 0% 0%	0	0% 0% 0%	0
2350/1 M 515/1 1150/1	Debris Impaction letal Bridge Railing Steel Protective Coat Check/Shake	Few incloned in long i	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s 9 checks (approxima	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10% 0% 0%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	100% 100% 100% 16% 16% 100% 100% 100% 10	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are	0% 0% 0% 0%	0	0% 0% 0%	0
2350/1 30/1 M 515/1 1150/1	Debris Impaction letal Bridge Railing Steel Protective Coat Check/Shake	Few inclong in long in	significant width v southwest corner 56 n Abutments. Not v 56 ession seal at bot 63 nized W-beam rails 63 nized exhibits no s 9 checks (approxima	of Abutm 0% visible 0% h abutmer 84% s on (5) 8 100% ignificant 0% ately 10% 0% 0%	d horizontal surplent 1. 0 0 10 153 inch x 8 inch tin 63 defects. 0 penetration) in	100% 100% 100% 16% 16% 100% 100% 100% 10	s with efflorescent states and states are states as with efflorescent states are states are states as with efflorescent states are	0% 0% 0% 0%	0	0% 0% 0%	0

Highway Number (ON) 5D: 00000 Mile Post (ON) 11: -1 mi Linear Ref. Sys. MP: 0.000 mi

9338/1	Conc Curbs/SW	(LF)	63	100%	63	0%	0	0%	0	0%	0
		6 inch	x 11 inch curb. T	op surface	of both curb	s is exposed	d. Vegetation	growing a	ong curbs.		
				_	_		_				
9501/1	Channel Cond	(EA)	1	100%	1	0%	0	0%	0	0%	0
		Man n	nodified, meande	ring, sandy	bottom stream	ambed with	mostly unreg	julated flow	s through flat	prairie	
		valley	floor. Channel fill	ed in and e	evened out di	uring Septer	mber 2013 F	lood.			
9504/1	BankCond	(EA)	1	100%	1	0%	0	0%	0	0%	0
		Very s	steep sloped (1:1)	to normal	water level w	vith grass ar	nd brush on r	mild to stee	slopes (3:1	to 2:1) to	
		flat cu	Itivated fields for	overbanks	beyond the o	channel. Eas	st berm at Ab	outment 2 w	ashed out pri	ior to 2018	
		inspec	ction. Small berm	at downstr	ream end with	h no berm a	t upstream c	reates eddy	current alon	g Abutment	
		2.									
	Waterway Adequ.	(EA)	11	100%	1	00/	10	00/	0	00/	_
9510/1	waterway Auequ.	(EA)	1'	10070	1	0%	0	0%	U	0%	0
9510/1	waterway Auequ.		chance of overto		oridge.	0%	Į0	0%	o	0%	Į0
9510/1	waterway Auequ.		chance of overto		oridge.	10%	Į0	10%		0%	<u> </u> 0
9510/1	waterway Auequ.		chance of overto		oridge.	10%	_10	0%		0%	
	AppRdAlign		chance of overto		pridge.	0%	0	0%	0	0%	0
		Slight	chance of overto	pping the t	1	0%	0	0%	0		
		Slight	1	pping the t	1	0%	0	0%	0		
9510/1		Slight	1	pping the t	1	0%	0	0%	0		
		Slight	1	pping the t	1	0%	0	0%	0		
9520/1	AppRdAlign	Slight (EA) Trans	1 verse crack in asp	pping the to 100% ohalt at we	1 st end of brid	0% dge has beer	0 n sealed, but	0%: is recracki	0 ng.	0%	0
9520/1	AppRdAlign	(EA) Trans (EA) (2) po	1 verse crack in asp	100% phalt at we 100% n of W-bear	1 st end of brid	0% dge has beer 0% n rails not lo	0 n sealed, but 0 0 ng enough, r	0%: is recracki	0 ng.	0%	0
9520/1	AppRdAlign	(EA) Trans (EA) (2) po	1 verse crack in asp	100% phalt at we 100% n of W-bear	1 st end of brid	0% dge has beer 0% n rails not lo	0 n sealed, but 0 0 ng enough, r	0%: is recracki	0 ng.	0%	0
9520/1	AppRdAlign	(EA) Trans (EA) (2) po	1 verse crack in asp	100% phalt at we 100% n of W-bear	1 st end of brid	0% dge has beer 0% n rails not lo	0 n sealed, but 0 0 ng enough, r	0%: is recracki	0 ng.	0%	0

Inspection References and Definitions:

Crack Width Descriptions for Reinforced Concrete:

Insignificant cracking (in.) = Less than 0.012 wide Moderate cracking (in.) = 0.012 to 0.05 wide

Wide cracking (in.) = Greater than 0.05 wide

Rust Codes (R Codes):

R1 = Peeling of the paint, pitting, surface rust, etc., no measurable section loss.

R2 = Flaking, minor section loss (< 10% thickness loss).

R3 = Flaking, swelling, mod section loss (10% < thickness loss <30%).

R4 = Heavy section loss (> 30% thickness loss), may have holes through base metal.

Crack Width Descriptions for Prestressed Concrete:

Insignificant cracking (in.) = Less than 0.004 wide Moderate cracking (in.) = 0.004 to 0.009 wide Wide cracking (in.) = Greater than 0.009 wide

Concrete Scaling Codes (S Codes):

S1 = Light scale up to 1/4" deep.

S2 = Moderate scale up to 1/2" deep with agg. exposed.

S3 = Heavy scale up to 1" deep with some agg. loose or missing.

S4 = Critical scale > 1" deep with reinforcing bars exposed and general disintegration of the concrete.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Priority
306.00	Approach Railing-Repair	6/23/2016		2022	High

Raise end treatment approaches at northeast and southwest or replace per 306.05.

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Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: -1 mi

Linear Ref. Sys. MP: 0.000 mi

306.04	Bridge Rail-Upgrade		8/31/2020	_	2022	High
Upgrade l	bridge railings to meet current AASHTO/CDOT sta	ndards.				
306.05	Approach Railing		1/18/2007		2022	High
Upgrade a	approach rails and end treatments and install trans	itions to me	et current AASH	TO/CD	OT standard	s.
352.02	Misc-Remove Vegetation		2/13/2013		2023	Low
	dirt, gravel and vegetation growing at sides of deck					
353.08	Deck-Seal		2/11/2015		2023	Low
	ks in west end of deck.					
358.03	Substructure-Rip Rap		6/5/2018		2023	Medium
	erosion along Abutment 2.		0/0/2010		2020	Wodiam
magato o	noolon diong / Badinonk					

Bridge Notes

Inventory route is west to east

South side is upstream

Superstructure is named Girder A through H from north to south

Substructure is numbered 1 through 2 from west to east

Structure not re-rated in 2020 for increase in asphalt since the previous rating was done by field evaluation.

Transferred to the Town of Erie from Boulder County per letter dated 3-1-11 by Pamela Hanson, P.E.

Bridge ID BC-38-7.9-CO formerly Boulder County is now ERI-KENOSHA, Town of Erie. Flood damage 2013: Slopes,

scour

 CDOT_SIA
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 Structure ID: ERI-KENOSHA
 Wed 12/09/2020 11:12:13

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Highway Number (ON) 5D: 00000 V

Mile Post (ON) 11: -1 mi

Linear Ref. Sys. MP: 0.000 mi

Inspection Notes		
Date: 08/31/2020 Time: 8:30 AM Weather: Clear Inspectors: MJB/AML		
Scour Item 113 Documentation		
Bat Present At Bridge		
-1		
Scope: NBI Element Underwater	☐ Fracture Critical ☐ Other	Type: Regular NBI
Team Leader Inspection Check-off:		
FCM's	☐ Vertical Clearance	
☐ Posting Signs	☐ Stream Bed Profile	
☐ Essential Repair Verification		
Inspection Team: <u>HDR, INC</u>		
Inspection Date: <u>08/31/2020</u>		
	Inspector: AML	
	 Inspector (Team Leade	Ar). MATTHEW BRIDG
	mapector (ream Leade	A). WAT THEW DINORD

 CDOT_SIA
 Version 9a - 10/26/2020
 Structure ID: ERI-KENOSHA
 Wed 12/09/2020 11:12:13

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ROADWAY LOOKING AHEAD ON INVENTORY



View 2

BRIDGE ELEVATION FROM UPSTREAM

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER

KENOSHA ROAD (CR 28) OVER COAL CREEK INSPECTION DATE 8/31/2020

PREPARED BY HDR ENGINEERING, INC. FOR THE COLORADO DEPARTMENT OF TRANSPORTATION



UNDERSIDE OF SUPERSTRUCTURE



View 4

CHANNEL UPSTREAM

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



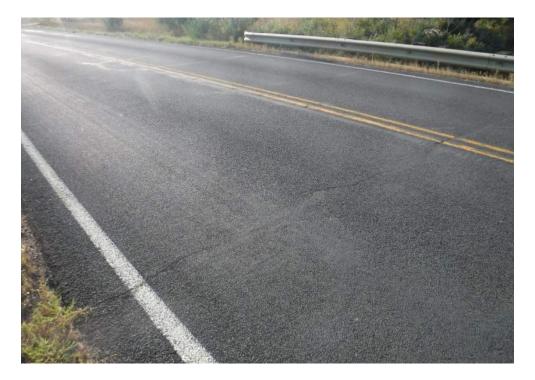
CHANNEL DOWNSTREAM



View 6

ROADWAY LOOKING BEHIND ON INVENTORY

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



GENERAL VIEW OF DECK SURFACE



View 8

GENERAL VIEW OF ABUTMENT 1

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



GENERAL VIEW OF ABUTMENT 2



View 10

SPLIT SPACER BLOCK AT 2ND POST FROM WEST IN NORTH RAIL

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



View 11

TWISTED SPACER BLOCKS IN SOUTH RAIL



View 12

HEAVY VEGETATION AT NORTHEAST APPROACH RAIL

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



View 13

BANK EROSION AT SOUTHEAST CORNER



View 14

EXPOSED AND CORRODED REBAR ALONG NORTH EDGE OF GIRDER A TOP FLANGE FOR 30% OF LENGTH

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER

KENOSHA ROAD (CR 28) OVER COAL CREEK INSPECTION DATE 8/31/2020

PREPARED BY HDR ENGINEERING, INC. FOR THE COLORADO DEPARTMENT OF TRANSPORTATION



View 15

EXPOSED AND CORRODED REBAR ALONG SOUTH EDGE OF GIRDER H TOP FLANGE FOR 60% OF LENGTH



View 16

EXPOSED AND CORRODED REBAR APPROXIMATELY 2 INCHES LONG IN BOTTOM STEM OF GIRDER F AT ABUTMENT 1 BEARING

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



21 INCH LONG X 4 INCH WIDE X 1 INCH DEEP SPALL IN JOINT OF SOUTHWEST END DIAPHRAGM



View 18

TYPICAL CRACKS UP TO 0.09 INCHES WIDE IN GIRDER FILLETS

STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER



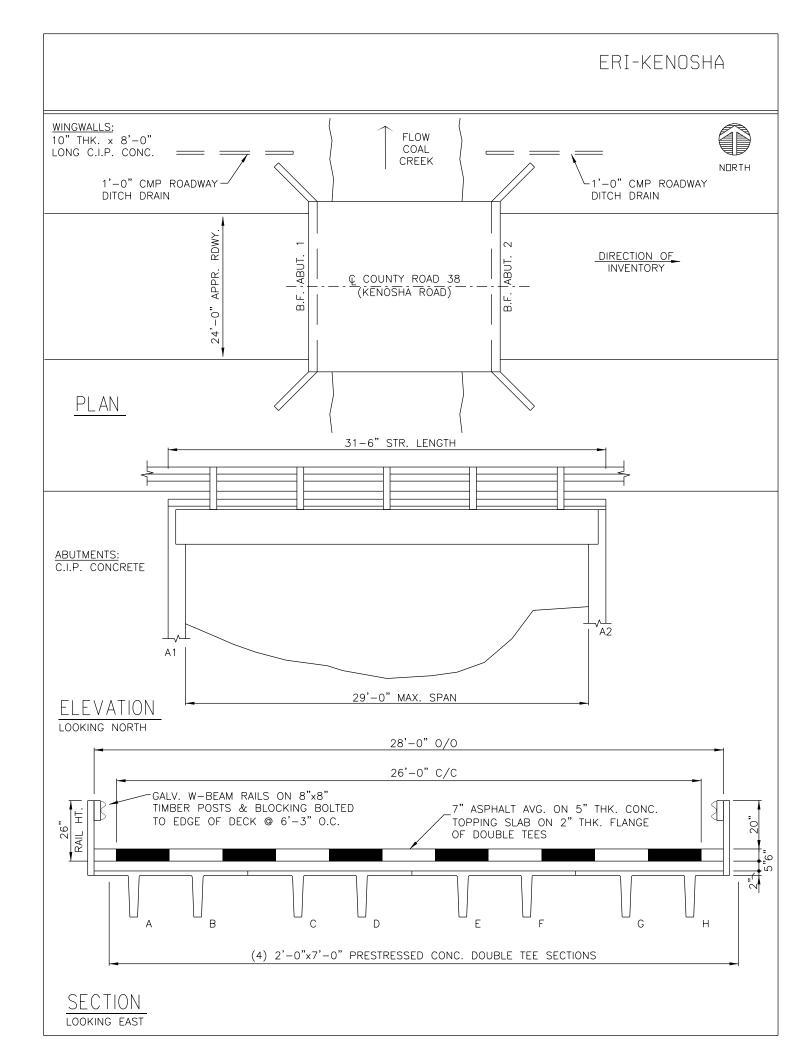
2 INCH DIAMETER POP OUT WITH EXPOSED AND CORRODED REBAR IN GIRDER H AT ABUTMENT 1



View 20

3 FEET OF VERTICAL AND HORIZONTAL SURFACE CRACKS WITH EFFLORESCENCE THROUGHOUT SOUTHWEST CORNER OF ABUTMENT 1

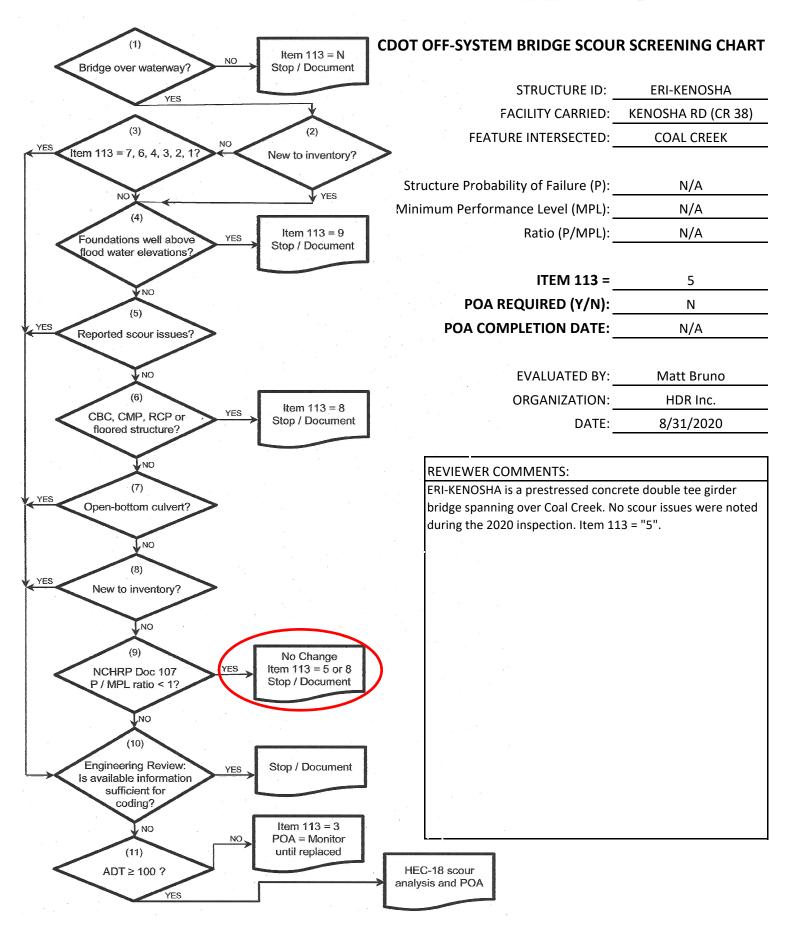
STRUCTURE NO.: ERI-KENOSHA CITY - ERIE, COUNTY - BOULDER

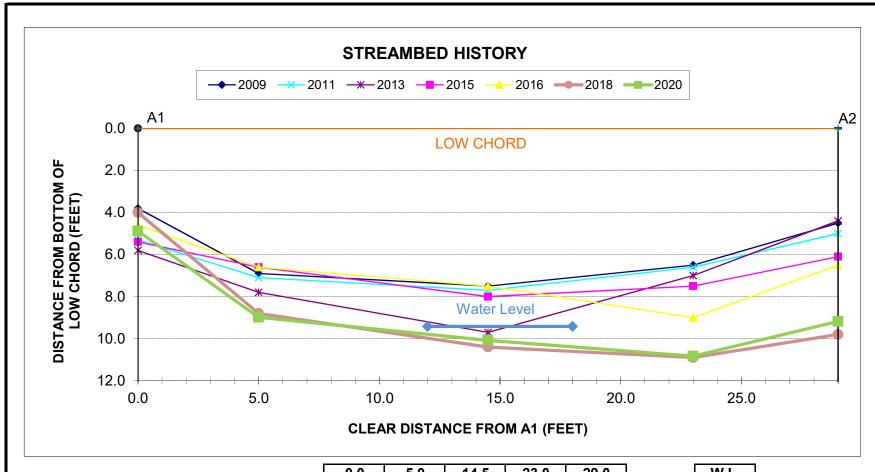


TOWN OF ERIC NOW! EKZ-KENOSHa Structura COLORADO DEPARTMENT OF INSPORTATION Was: LOAD FACTOR RATING SUMMARY State righway # Rated Using Batch I.D. ϕ 0 Asphalt thickness: ппп in.l 013049 X Colorado legal loads Structure type CDTPG ___ Interstate legal loads Parallel structure # N/A Structural Member CONG DECK GIRDER Metric tons (Tons) Metric tons (Tons) Metric tons (Tons) Metric tons (Tons) Inventory MS 18 32.7 (36.0) (HS 20) 32.7 (36.0)Operating MS 18 (40,0) 36.4 (HS 20) 36.4 (40.0)Type 3 truck Type 3S2 truck Type 3-2 truck Permit truck Type 3 Truck Type 3-2 Truck Type 3S2 Truck Plansials 21.9 metric lars (24 tans) Colorado 24.5 metric tans (27 tans) Mersiale III.4 metris rans (73 tens) clesiate 14,5 metro tons (13 tons) Calareda 38,6 metro tans (42,5 tons) Columbia 19 8 metric lans (47,5 tans) Metric tons Tons Metric tons Tons Metric tons Tons

RED RICHAM MICHAEL 2003 previous visual rating dated 3/ gravel over 5ª C.J.P. er topot deckin 1996.	1.5/84, conc.deck ove	ECTED BU	tre top Plan, co IT NOT RATED		
	concident ove	ECTED BU	T NOT RATED		
e top of deckin 1996.		ECTED BU	T NOT RATED		
e top of deckin 1996.		ECTED BU	T NOT RATED		
	INSPI				
The state of the s		CTI	TATA		
	_ SEH, INC.				
	DATE:_	3/26/13	BY: JASON TRIE		
Date 3/16/9	Check by M	1. Janes L	DBUT NOT REPATED BY LETTER, Inc 1998 Date 3-6		
	Date 3/16/9	Date Check by 3/16/97	1-101160 01 FONOCH INC. S-COM		







	0.0	5.0	14.5	23.0	29.0
2009	3.8	6.9	7.5	6.5	4.5
2011	5.3	7.1	7.7	6.6	5.0
2013	5.8	7.8	9.7	7.0	4.4
2015	5.4	6.6	8.0	7.5	6.1
2016	4.6	6.6	7.5	9.0	6.5
2018	4.0	8.8	10.4	10.9	9.8
2020	4.9	9.0	10.1	10.8	9.2

W.L.
9.7
9.4

STRUCTURE NUMBER: ERI-KENOSHA
INSPECTION DATE: 8/31/2020

PERFORMED BY: MJB/AML