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Sufficiency Rating: 48.0 SD/FO: ND

IDENTIFICATION

Bridge ID: 1229A011

5) Inventory Route

A) On/Under: Route On Structure

D) Route No: 00002

6) Feature Intersected: MUDDY RUN

7) Facility Carried: CAPITAL TRAIL/SR2

9) Location: EAST OF NEWARK

16) Latitude: 39° 41' 40"

98) Border Bridge Code: Not Applicable (P) 99) Border Br. Str. No.: Unknown

STRUCTURE TYPE AND MATERIALS

43 A & B) Main Span Mtrl/Design: 1 Concrete 11 Arch-Deck

44 A & B) Appr Span Mtrl/Design:

45) Main Spans: 1

108A) Wearing Surface: 6 Bituminous

Deck Sealing: Epoxy

Pier 1: NA

Pier 2: NA

Abut 1: 2

Abut 2: 1

46) Approach Spans: 0

108B) Membrane: 0 None

Deck Sealing Date: 01/01/1901

Pier Ftg.1: NA

Abut Ftg.1: A

Type of Inspection(s) Performed

UW

☐

NBI

☒

Other

☐

FC

☐

Element

☒

3) County: 03 New Castle

4) Place Code: Lumbrook

C) Service Lvl: 1 Mainline

11) Mile Pnt: 5.151 mi

17) Longitude: 075° 43' 13"

107) Deck Type: 1 Concrete-Cast-in-Place

108C) Deck Prot: None

Pier Ftg.2: NA

Abut Ftg.2: NA

NAVIGATION DATA

38) Navigation Control: Permit Not Required

111) Pier Protection: Not Applicable (P)

39) Vert. Clearance: 0.0 ft

116) Lift Bridge Vert. Clearance: 0.0 ft

40) Hor. Clr: 0.0 ft

AGE AND SERVICE

19) Detour Length: 0.9 mi

28) No. of Lanes

29) ADT: 24026

42) Type of Service

106) Year Reconst.: 1969

27) Year Built: 1948

A) On Bridge: 5

B) Under Br.: 0

30) Year of ADT: 2023

A) On Bridge: 5 Highway-pedestri

B) Under Br.: 5 Waterway

109) % Truck ADT: 12

CLASSIFICATION

12) Base Hwy Network: 1

20) Toll Facility: 3 On free road

26) Functional Class: 14 Urban Other Princ

101) Parallel Str.: No || bridge exists

104) Hwy System: 1 On the NHS

112) NBIS Length: Long Enough

13A) LRS Inv. Rte: 0000000011

13B) LRS SubRte No: 00

21) Maintenance: State Highway Agency

37) Historical: 5 Not eligible for NRHP

38) Defense Hwy: 0 Not a STRAHNET hwy

102) Direction: 2 2-way traffic

103) Temp. Str.: [blank] Not temporary

LOAD RATING AND POSTING

31) Design Load: 0 Unknown

63) Oper. Rating Method: 8 LRFR (HL93)

65) Inventory Rating Method: 8 LRFR (HL93)

Reason of Posting: _

S220: NA

T330:

SU4 :

SU7 :

41) Posting status: A Open, no restrict

64) Operating Rating: 0.72 rf

70) Br Posting: 5 At/Above Legal Loads

66) Inv. Rating: 0.56 rf

Rating Date: 01/31/2023

Date of Resolution: NA

S335:

S437:

T435:

T540:

SU5:

SU6:

EV2:

EV3:

PROPOSED IMPROVEMENTS

75) Type of Work: 33 Widen w/o Deck R

94) Bridge Cost: \$500000.00

96) Total Cost: \$600000.00

114) Future ADT: 31,878

76) Length of Imp.: 100.0 ft

95) Rdwy Cost: \$100000.00

97) Yr of Cost Est: 2007

115) Yr of Fut. ADT: 2042

CONTRACT INFORMATION

Contract 1: N/A

Contract 4: 6804001

Contract 2: 907

Contract 5: 7909910

Contract 3: 1497

Contract 6: NA

INSPECTION

90) Inspection Date: 4/25/2024

92A) FC Frequency:

92B) UW Frequency:

92C) SI Frequency:

Element Frequency: 24 months

UBIV Required: N

UBIV Freq: -1

Boat: N

LC Insp Req: N

91) Frequency: 24 months

93A) FC Insp. Date: NA

93B) UW Insp. Date: NA

SI Date 93C: NA

Elem. Insp. Date: 4/25/2024

UBIV Days: -1

UBIV Insp Date: 01/01/1901

Tidal: N

LC Insp Date: 01/01/1901

Next Insp.: 4/25/2026

Next FC Insp: NA

Next UW Insp.: NA

Next SI: NA

Next El. Insp.: 4/25/2026

Inspection Zone: 05

GPS: Y

CONDITION

58) Deck: 6 Satisfactory

61) Channel: 6 Bank Slumping

62) Culvert: N N/A (NBI)

59) Superstructure: 5 Fair

60) Sub Str: 7 Good

APPRAISAL

36) Traffic Safety Features

A) Bridge Rail: 1 Meets Standards

D) Approach Rail Ends: 0 Substandard

67) Str. Evaluation: 4 Minimum Tolerable

71) Waterway Adequacy: 6 Equal Minimum

113) Scour Critical: 8 Stable Above Footing

B) Transition: 0 Substandard

C) Appr. Rail: 0 Substandard

68) Deck Geometry: 2 Intolerable - Replace

69) Under Clr: N Not applicable (NBI)

72) Approach Alignment: 8 Equal Desirable Crit

GEOMETRIC DATA

32) Appr. Rdwy Width (w/ Shldrs): 52.00 ft

34) Skew: 30°

48) Length Max Span: 50.00 ft

50) Curb or Sidewalk

51) Width Curb to Curb : 52.00 ft

53) Minimum Vertical Clearance Over Bridge:

54) Vertical Underclearance

55) Lateral Underclearance

56) Minimum Lateral Underclearance - Minimum Left: 0.00 ft

33) Median: 2 Closed Med w/o Barrier

35) Structure Flared: 0 No flare

49) Structure Length: 53.66 ft

A) Left: 4.76 ft

B) Right: 4.27 ft

52) Width Out to Out: 61.50 ft

99.99 ft

A) Reference: N Feature not hwy or RR

B) Minimum: 0.00 ft

A) Reference: N Feature not hwy or RR

B) Minimum: 0.00

Bridge No: 1229A011
Date of Inspection: 04/25/2024
Load Rating Date: 01/31/2023

Print Date:
Report Uploaded 20-Jun-24

ELEMENT CONDITION STATE DATA

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4
12/2	Re Concrete Deck	sq.ft	2,000.00	1,935.00	0.00	65.00	0.00
811/2	Asphaltic Conc. Wearing Surface	sq.ft	1,975.00	1,775.00	0.00	200.00	0.00
107/2	Steel Opn Girder/Beam	ft	364.00	173.00	50.00	141.00	0.00
515/2	Steel Protective Coating	sq.ft	3,276.00	1,557.00	0.00	450.00	1,269.00
144/1	Re Conc Arch	ft	50.00	39.00	10.00	1.00	0.00
215/2	Re Conc Abutment	ft	76.00	74.00	2.00	0.00	0.00
311/2	Moveable Bearing	each	7.00	5.00	1.00	1.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
313/2	Fixed Bearing	each	7.00	3.00	2.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
330/2	Metal Bridge Railing	ft	168.00	164.00	0.00	4.00	0.00
331/2	Re Conc Bridge Railing	ft	112.00	107.00	2.00	3.00	0.00
825/2	R/C Abutment Backwall	ft	76.00	74.00	1.00	1.00	0.00
839/2	Soffit Smart Flag	(EA)	1.00	0.00	1.00	0.00	0.00
856/2	R/C Sidewalk	(LF)	112.00	100.00	7.00	5.00	0.00
881/2	Steel Diap	(EA)	21.00	12.00	4.00	5.00	0.00
515/2	Steel Protective Coating	sq.ft	756.00	468.00	0.00	144.00	144.00
890/2	RC Wingwalls	(LF)	106.00	99.00	1.00	6.00	0.00

INSPECTION

Inspection Date: 04/25/2024 6/24/24 Type: 1 Regular NBI
Inspector: JOSEPH MASTEN *JM* BrM User:
Scope:
NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical ☐

INSPECTION NOTES

INSPECTED BY: J.MASTEN (TL,I) / S.KOMAR (S,R) / M.GREGORY (P)

NOTES:

- HANDS ON ACCESS WAS MADE BY FOOT TO ELEMENTS 12, 107 (BOTTOM FLANGE), 144 (UP TO EYE LEVEL), 215, 311, 313, 330, 31, 856, 890 (UP TO EYE LEVEL). REMAINGING ELEMENTS WERE VISUALLY INSPECTED.

MAXIMO MAINTENANCE:

-B022-S1D: SEAL CRACKS IN THE AC OVERLAY...WO#1341310

-B060-A1C: PLACE WEDGES AT BOTH ENDS OF THE SOUTH SIDEWALK...WO#1341312

STRUCTURE NOTES

Year Bridge Painted: 2016 Comments: Complete painting of steel s
Date of Deck Sealing: 01/01/1901 Comments:
Date of Non Structural Deck Overlay: 01/01/1901 Comments:
Date of Structural Deck Resurfacing: 01/01/1901 Comments:
Date of Current Bridge Joints: 01/01/1901 Comments:

NBI DONE BY: JASON BAUER

NOTE: SCALE FACTORS ENTERED BY GRD ON 07/31/06, DO NOT CHANGE....

ELEMENT CONDITION STATE DATA FOR UNIT0

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
12/2	Re Concrete Deck	sq.ft	2,000.00	1,935.00	0.00	65.00	0.00	DECK NOTES: CS-1= DECK IS COVERED w/AC OVERLAY WEARING SURFACE. SOFFIT NOTES: EXP BARS: CS-3=60 SF: EXP BARS w/LOSS OF SECTION IN THE WESTBOUND NORTH OVERHANG (35 SF) AND IN THE EASTBOUND NORTH OVERHANG ADJACENT TO ARCH (25 SF). (PHOTO 17) SPALL / DELAM: CS-3=5 SF: DEEP SPALLS IN BAY#1 NEAR MID SPAN (1 SF), OVER WEST ABUTMENT (1 SF), AND IN SOUTH OVERHANG ADJACENT TO SOUTH FACE OF ARCH (3 SF). (PHOTO 18) RUST / EFFLO: CS-1=31 SF: EFFLO IN BAY#1 (16 SF) AND BAY#2 (15 SF) (NC-24)
811/2	Asphaltic Conc. Wearing Surface	sq.ft	1,975.00	1,775.00	0.00	200.00	0.00	CRACKING: CS-3=200 SF: AREAS OF DENSE WIDE MAPPING CRACKING ALONG w/LONGITUDINAL AND TRANSVERSE CRACKING. (PHOTO 11)
3220/2	Crack (Wearing Surface)	sq.ft	200.00	0.00	0.00	200.00	0.00	-
1080/2	Delamination/Spall/Patched Area	sq.ft	5.00	0.00	0.00	5.00	0.00	-
1090/2	Exposed Rebar	sq.ft	60.00	0.00	0.00	60.00	0.00	-
107/2	Steel Opn Girder/Beam	ft	364.00	173.00	50.00	141.00	0.00	CORROSION: CS-3=141 LF: CORROSION w/LOSS OF SECTION MAINLY TO THE TOP FLANGE OF GIRDER#1 (20 LF), GIRDER#2 (20 LF), GIRDER#3 (40 LF), GIRDER#4 (50 LF), GIRDER#5 (10 LF), AND GIRDER#7 (1 LF). (PHOTO 14) CS-2=50 LF: LIGHT CORROSION AND OF FRECKLE RUST HAS FORMED AT RANDOM. NOTE: -THERE ARE AREAS OF PAINTED OVER SECTION LOSS MAINLY AT THE ENDS. (PHOTO 15)
515/2	Steel Protective Coating	sq.ft	3,276.00	1,557.00	0.00	450.00	1,269.00	CS-4=1269 SF: NO PROTECTION. CS-3=450 SF: LIMITED EFFETIVENESS.
1000/2	Corrosion	ft	191.00	0.00	50.00	141.00	0.00	-
144/1	Re Conc Arch	ft	50.00	39.00	10.00	1.00	0.00	SPALL / DELAM: CS-3=1 LF: DEEP SPALLS IN SAME LINEAR FOOT LOCATED ON BOTH THE NORTH AND SOUTH FACES ADJACENT TO THE EAST ABUTMENT AT THE SOFFIT OVERHANG INTERFACE. (PHOTO 20) CS-2=10 LF: AREAS OF DELAMINATED SHOT CRETE AT RANDOM. RUST / EFFLO: CS-1=10 LF: AREAS OF RUST STAINS AND RUST STAINED EFFLO AT RANDOM. (2022 PHOTO 14) CS-1=10 LF: AREAS OF EFFLO AT RANDOM.
1080/1	Delamination/Spall/Patched Area	ft	11.00	0.00	10.00	1.00	0.00	

ELEMENT CONDITION STATE DATA FOR UNIT0

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
215/2	Re Conc Abutment	ft	76.00	74.00	2.00	0.00	0.00	WEST ABUTMENT: CRACKING: CS-1= SUPERFICIAL CRACKS SOME w/EFFLO. EAST ABUTMENT: SPALL / DELAM: CS-2=2 LF: DELAM UNDER BAY#2 CRACKING: CS-1= SUPERFICIAL CRACKS.
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	2.00	0.00	0.00	
311/2	Moveable Bearing	each	7.00	5.00	1.00	1.00	0.00	EAST ABUTMENT BEARINGS: CONNECTION: CS-3=1 EA: BEARING#5 HAS MISSING CONNECTION BOLT. (2022 PHOTO 25) CS-2=1 EA: BEARING#1 HAS LOOSE BOLT CONNECTION. (NC-24)
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00	CS-1=42 SF: NDN (NC-24) NOTE: BEARINGS APPEAR TO HAVE RUST UNDER THE PAINT AND GREASE.
1020/2	Connection	each	2.00	0.00	1.00	1.00	0.00	
313/2	Fixed Bearing	each	7.00	3.00	2.00	2.00	0.00	WEST ABUTMENT BEARINGS: CONNECTION: CS-3=2 EA: BEARINGS 1 AND 5 HAVE MISSING CONNECTION BOLTS. (PHOTO 13) CS-2=2 EA: BEARINGS 2 AND 3 HAVE LOOSE CONNECTION BOLTS. (NC-24)
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00	CS-1=42 SF: NDN (NC-24) NOTE: BEARINGS APPEAR TO HAVE RUST UNDER THE PAINT AND GREASE.
1020/2	Connection	each	4.00	0.00	2.00	2.00	0.00	
330/2	Metal Bridge Railing	ft	168.00	164.00	0.00	4.00	0.00	SOUTH RAIL: CONNECTION: CS-3=3 LF: MISSING CONNECTION BOLTS TO VERTICAL POSTS 2,3,6 BASE PLATES FROM THE SOUTH. (PHOTO 9) DISTORTION: CS-3=1 LF: DISTORTION TO TOP HORIZONTAL MEMBER AT WEST END. (PHOTO 8) NORTH RAIL: CS-1= NDN
1020/2	Connection	ft	3.00	0.00	0.00	3.00	0.00	-
1900/2	Distortion	ft	1.00	0.00	0.00	1.00	0.00	-
7000/2	Damage	ft	1.00	0.00	0.00	1.00	0.00	
331/2	Re Conc Bridge Railing	ft	112.00	107.00	2.00	3.00	0.00	SOUTH RAIL: SPALL /DELAM: CS-3=2 LF: DEEP SPALL TO BASE OF RAIL, NORTH FACE NEAR MIDSPAN (2 LF) (PHOTO 10) AND NORTH FACE AT EAST END (1 LF). CS-2=2 LF: DELAM SOUTH FACE APPROX 8 FT. FROM THE EAST END. NORTH RAIL: EXP BAR: CS-3=1 LF: EXP BAR w/LOSS OF SECTION SOUTH FACE AT THE WEST END. (PHOTO 12)
1080/2	Delamination/Spall/Patched Area	ft	4.00	0.00	2.00	2.00	0.00	-
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00	

ELEMENT CONDITION STATE DATA FOR UNIT0

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
825/2	R/C Abutment Backwall	ft	76.00	74.00	1.00	1.00	0.00	WEST ABUTMENT: CRACKING: CS-1= SUPERFICIAL CRACKS AT RANDOM RUST / EFFLO: CS-1=2 LF: RUST STAINS AT NORTH END UNDER WESTBOUND LANE (1 LF) AND IN BAY#1 UNDER THE EASTBOUND LANES (1 LF). (PHOTO 18,19) CS-1=3 LF: SUPERFICIAL CRACKS w/EFFLO IN BAY#2 (1 LF) UNDER THE WESTBOUND TRAVEL LANE AND BAY#1 (2 LF) UNDER THE EASTBOUND TRAVEL LANE. EAST ABUTMENT: SPALL / DELAM: CS-3=1 LF: DEEP SPALL BEHIND GIRDER 1. (PHOTO 19) CS-2=1 LF: SHALLOW SPALL BEHIND GIRDER#1 UNDER THE WESTBOUND LANES. CRACKING: CS-1= SUPERFICIAL CRACKS AT RANDOM RUST / EFFLO: CS-1=5 LF: SUPERFICIAL CRACKS w/EFFLO IN BAY#1 (3 LF) AND BAY#2 (2 LF) UNDER THE WESTBOUND TRAVEL LANES.
839/2	Soffit Smart Flag	(EA)	1.00	0.00	1.00	0.00	0.00	CS-2=1 EA: DECK SOFFIT DISTRESS IS BETWEEN 2 AND 10 PERCENT DISTRESS...SEE ELEMENT #12 (NC-24)
856/2	R/C Sidewalk	(LF)	112.00	100.00	7.00	5.00	0.00	SOUTH SIDEWALK: SPALL / DELAM: CS-3=1 LF: DEEP SPALL TO REPAIR AT EAST END. THE REPAIR / SPALL IS HIGHER THAN THE APPROACH SIDEWALK. (PHOTO 7) NORTH SIDEWALK: SPALL / DELAM: CS-3=4 LF: DEEP SPALLS AT THE EAST END. CS-2=7 LF: DELAM ADJACENT TO SPALLS AT THE EAST END.
1080/2	Delamination/Spall/Patched Area	(LF)	12.00	0.00	7.00	5.00	0.00	-
881/2	Steel Diap	(EA)	21.00	12.00	4.00	5.00	0.00	CORROSION: CS-3=4 EA: CORROSION w/LOSS OF SECTION TO DIAPHRAGMS 1,2 OVER WEST ABUTMENT, BAY 5 DIAPHRAGM OVER WEST ABUTMENT AND BAY 6 MID SPAN DIAPHRAGM. (PHOTO 16) CS-2=4 EA: LIGHT CORROSION OR FRECKLE RUST HAS FORMED TO DIAPHRAGMS IN BAYS#1,2,4 AT RANDOM. CRACK: CS-3=1 EA: DIAPHRAGM IN BAY#1 OVER EAST ABUTMENT HAS CRACKED / SEPARATED WELD AT GIRDER#1. (2022 PHOTO 24)
515/2	Steel Protective Coating	sq.ft	756.00	468.00	0.00	144.00	144.00	CS-4=144 SF: NO PROTECTION CS-3=144 SF: LIMITED EFFECTIVENESS
1000/2	Corrosion	(EA)	8.00	0.00	4.00	4.00	0.00	
1010/2	Cracking	(EA)	1.00	0.00	0.00	1.00	0.00	
890/2	RC Wingwalls	(LF)	106.00	99.00	1.00	6.00	0.00	SOUTHWEST WINGWALL: SPALLS / DELAM CS-3=6 LF: DEEP SPALLS EAST FACE NEAR THE ABUTMENT. (PHOTO 21) CS-2=1 LF: DELAM ADJACENT TO THE ABUTMENT.
1080/2	Delamination/Spall/Patched Area	(LF)	7.00	0.00	1.00	6.00	0.00	-
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00	

ELEMENT CONDITION STATE DATA SUMMARY

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4
12/2	Re Concrete Deck	sq.ft	2,000.00	1,935.00	0.00	65.00	0.00
811/2	Asphaltic Conc. Wearing Surface	sq.ft	1,975.00	1,775.00	0.00	200.00	0.00
811/2	Asphaltic Conc. Wearing Surface	sq.ft	1,975.00	1,775.00	0.00	200.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	5.00	0.00	0.00	5.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	5.00	0.00	0.00	5.00	0.00
1090/2	Exposed Rebar	sq.ft	60.00	0.00	0.00	60.00	0.00
1090/2	Exposed Rebar	sq.ft	60.00	0.00	0.00	60.00	0.00
107/2	Steel Opn Girder/Beam	ft	364.00	173.00	50.00	141.00	0.00
515/2	Steel Protective Coating	sq.ft	3,276.00	1,557.00	0.00	450.00	1,269.00
515/2	Steel Protective Coating	sq.ft	3,276.00	1,557.00	0.00	450.00	1,269.00
1000/2	Corrosion	ft	191.00	0.00	50.00	141.00	0.00
1000/2	Corrosion	ft	191.00	0.00	50.00	141.00	0.00
144/1	Re Conc Arch	ft	50.00	39.00	10.00	1.00	0.00
1080/1	Delamination/Spall/Patched Area	ft	11.00	0.00	10.00	1.00	0.00
1080/1	Delamination/Spall/Patched Area	ft	11.00	0.00	10.00	1.00	0.00
215/2	Re Conc Abutment	ft	76.00	74.00	2.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	2.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	2.00	0.00	0.00
311/2	Moveable Bearing	each	7.00	5.00	1.00	1.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
1020/2	Connection	each	2.00	0.00	1.00	1.00	0.00
1020/2	Connection	each	2.00	0.00	1.00	1.00	0.00
313/2	Fixed Bearing	each	7.00	3.00	2.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	42.00	42.00	0.00	0.00	0.00
1020/2	Connection	each	4.00	0.00	2.00	2.00	0.00
1020/2	Connection	each	4.00	0.00	2.00	2.00	0.00
330/2	Metal Bridge Railing	ft	168.00	164.00	0.00	4.00	0.00
1020/2	Connection	ft	3.00	0.00	0.00	3.00	0.00
1020/2	Connection	ft	3.00	0.00	0.00	3.00	0.00
1900/2	Distortion	ft	1.00	0.00	0.00	1.00	0.00
1900/2	Distortion	ft	1.00	0.00	0.00	1.00	0.00
7000/2	Damage	ft	1.00	0.00	0.00	1.00	0.00
7000/2	Damage	ft	1.00	0.00	0.00	1.00	0.00
331/2	Re Conc Bridge Railing	ft	112.00	107.00	2.00	3.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	4.00	0.00	2.00	2.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	4.00	0.00	2.00	2.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00
825/2	R/C Abutment Backwall	ft	76.00	74.00	1.00	1.00	0.00
839/2	Soffit Smart Flag	(EA)	1.00	0.00	1.00	0.00	0.00
856/2	R/C Sidewalk	(LF)	112.00	100.00	7.00	5.00	0.00
1080/2	Delamination/Spall/Patched Area	(LF)	12.00	0.00	7.00	5.00	0.00
1080/2	Delamination/Spall/Patched Area	(LF)	12.00	0.00	7.00	5.00	0.00
881/2	Steel Diap	(EA)	21.00	12.00	4.00	5.00	0.00
515/2	Steel Protective Coating	sq.ft	756.00	468.00	0.00	144.00	144.00
515/2	Steel Protective Coating	sq.ft	756.00	468.00	0.00	144.00	144.00
1000/2	Corrosion	(EA)	8.00	0.00	4.00	4.00	0.00
1000/2	Corrosion	(EA)	8.00	0.00	4.00	4.00	0.00
1010/2	Cracking	(EA)	1.00	0.00	0.00	1.00	0.00
1010/2	Cracking	(EA)	1.00	0.00	0.00	1.00	0.00

890/2	RC Wingwalls	(LF)	106.00	99.00	1.00	6.00	0.00
1080/2	Delamination/Spall/Patched Area	(LF)	7.00	0.00	1.00	6.00	0.00
1080/2	Delamination/Spall/Patched Area	(LF)	7.00	0.00	1.00	6.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00

SCOUR RELATED DATA
Bridge No: 1229A011

Bridge ID: 1229A011	Inspection Date: 4/25/2024	Region: Urban
Waterway Name: MUDDY RUN		Fathometer Req'd: No

WATERWAY INFORMATION

Tidal: N	Underclearance: 7.1 ft	Depth of Flow: 0.9 ft
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STREAMBED CHARACTERISTICS

Streambed Mtrl Type: Gravel < 6"	Streambed Mtrl Penetration: Firm < 1"
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ARMORING

Abutment: No Armoring	Piers: N/A
Upstream Channel: No Armoring	Wingwalls: No Armoring
Dwnstrm Channel: No Armoring	Channel Bottom: No Armoring

TYPE OF FOUNDATION & SUBSTRUCTURE ELEMENTS

Foundation Type: Spread	Fnd. Mtrl: Soil
Pier:	Cap Shape: Shape of Piles:

CHANNEL AND CHANNEL PROTECTION (NBI ITEM #61)

Waterway: G	Comments: NDN
Streambed: F	Comments: SEDIMENT UP AND DOWN
Embankment: F	Comments: MINOR FAILURE UPSTRE
Fender System: N	Comments: N/A

CHANNEL INFORMATION

Debris in Channel: No	Sediment in Channel: Yes	Cap. of Chnl: Low
Chance of Overtopping: Slight (11-100 Yrs)		
Upstream Bank Condition: Bank Erosion	Downstream Bank Condition: No Deficiency	
Rdwy Overflow: Insignificant		

LOCAL SCOUR (OBSERVED) NBI ITEM #113

Piers: None	Abutment: None	Bents:
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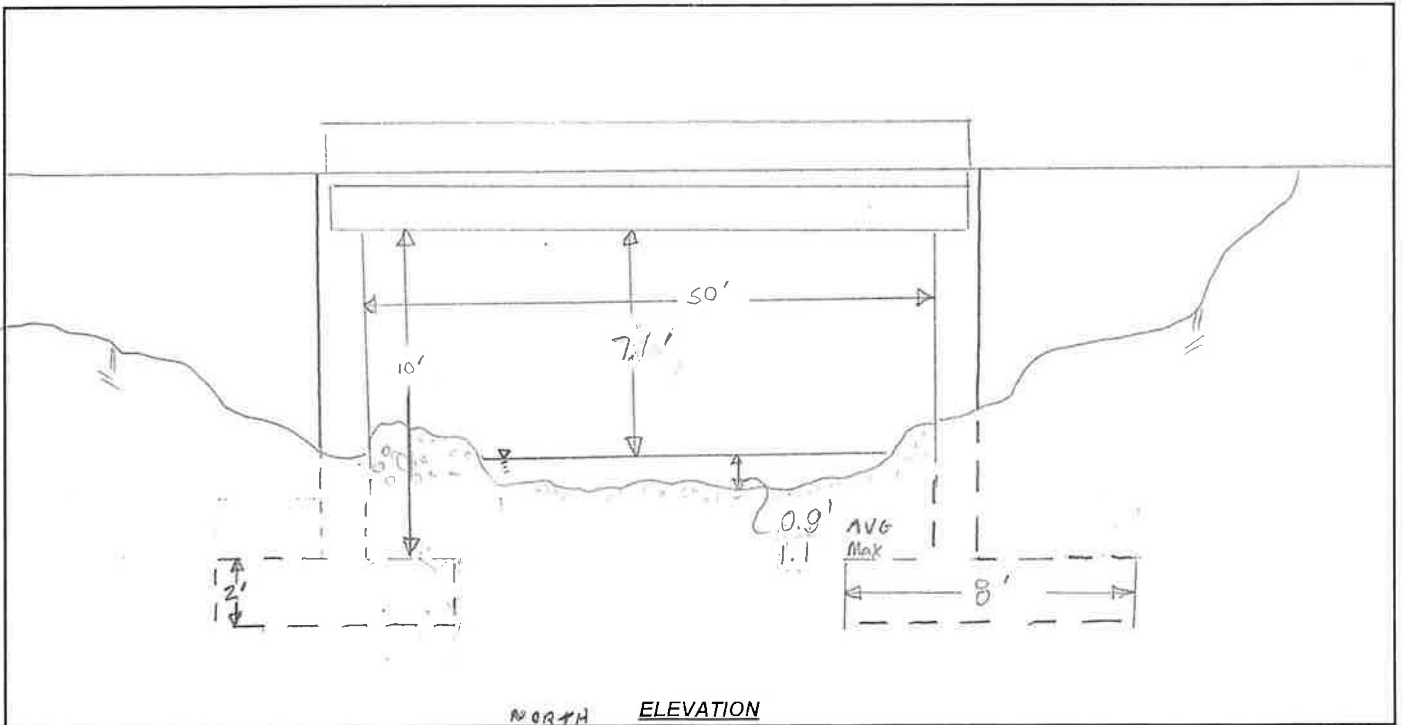
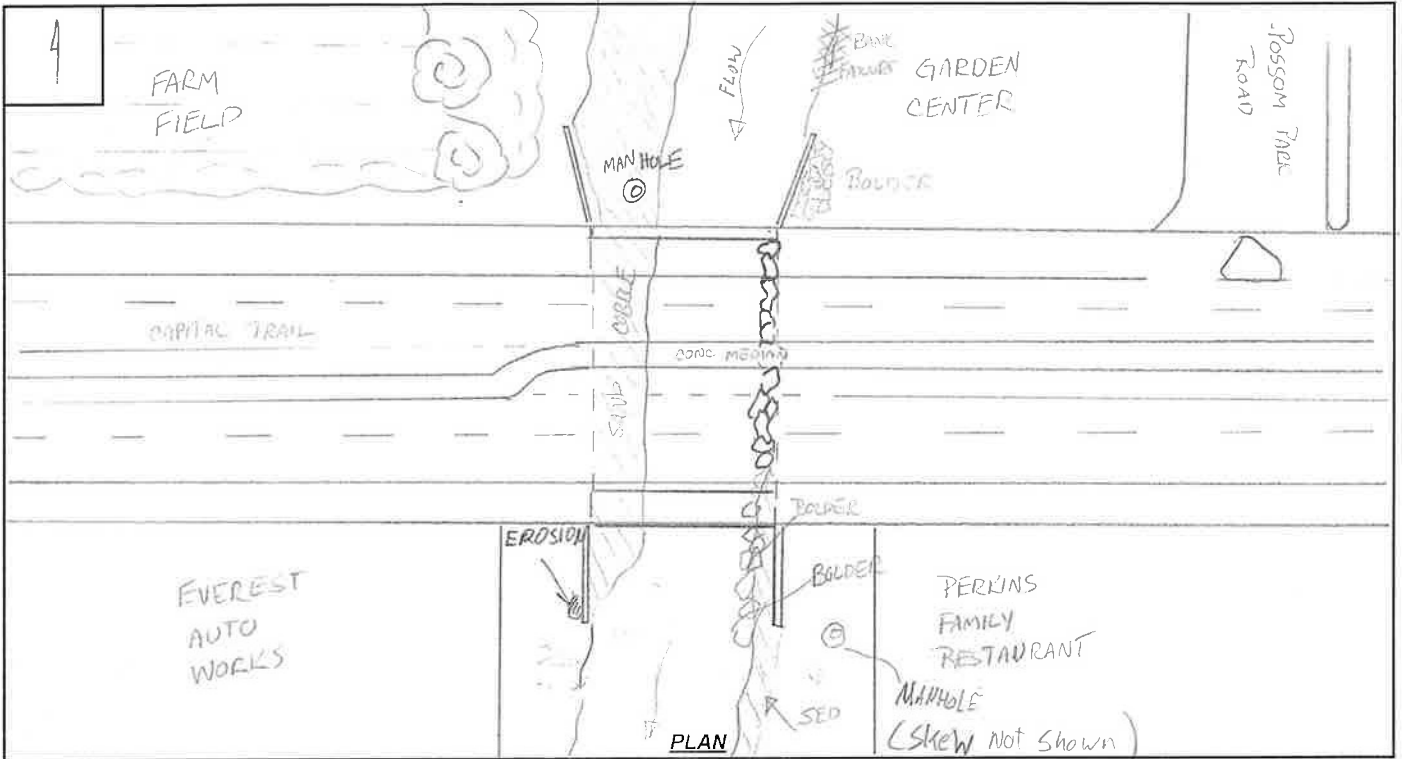
WATERWAY SKETCH SHEET

BR. I.D.: 1 - 229^A - 011

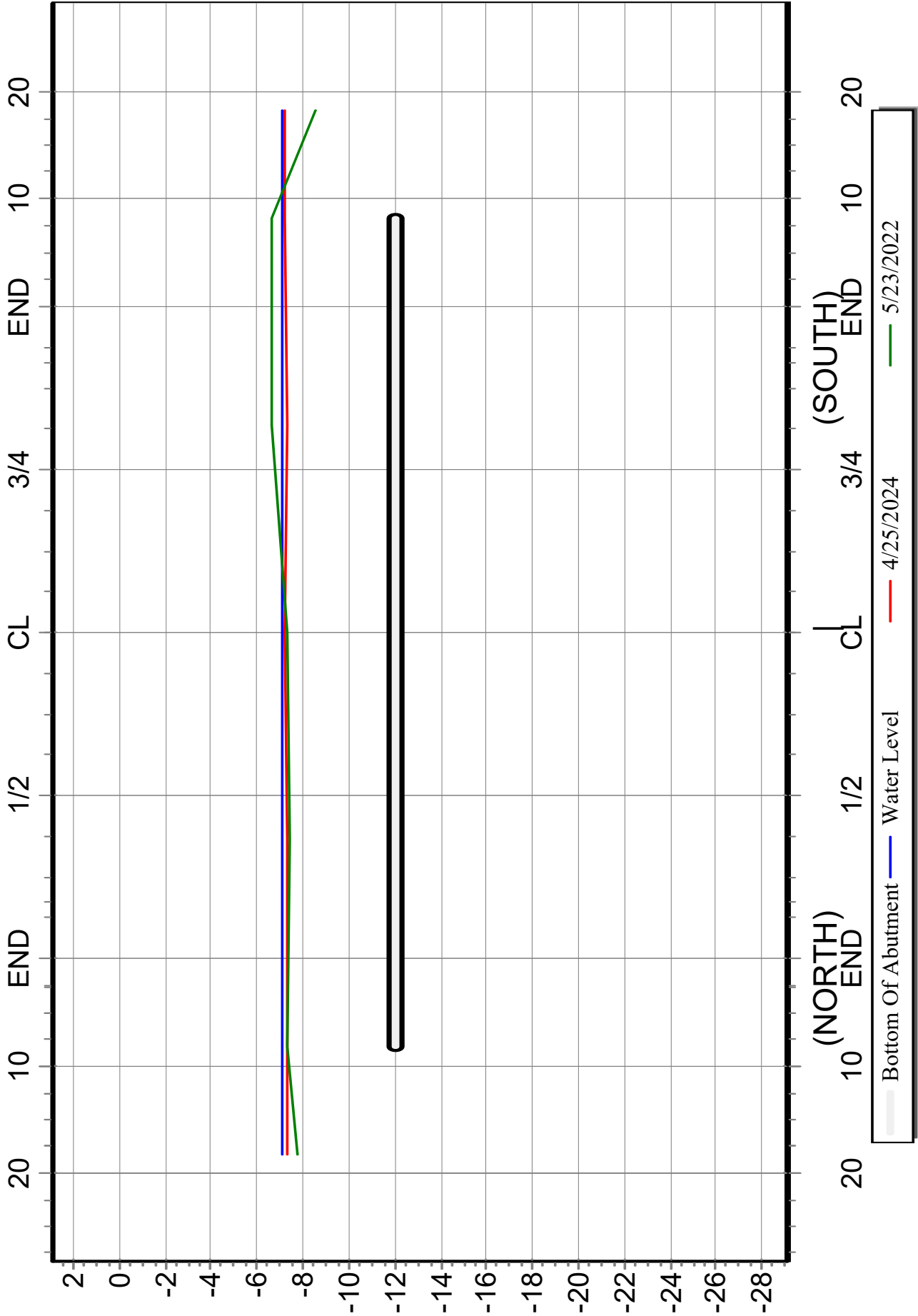
WATERWAY NAME: MUDDY RUN

DATE: 4/12/51 24

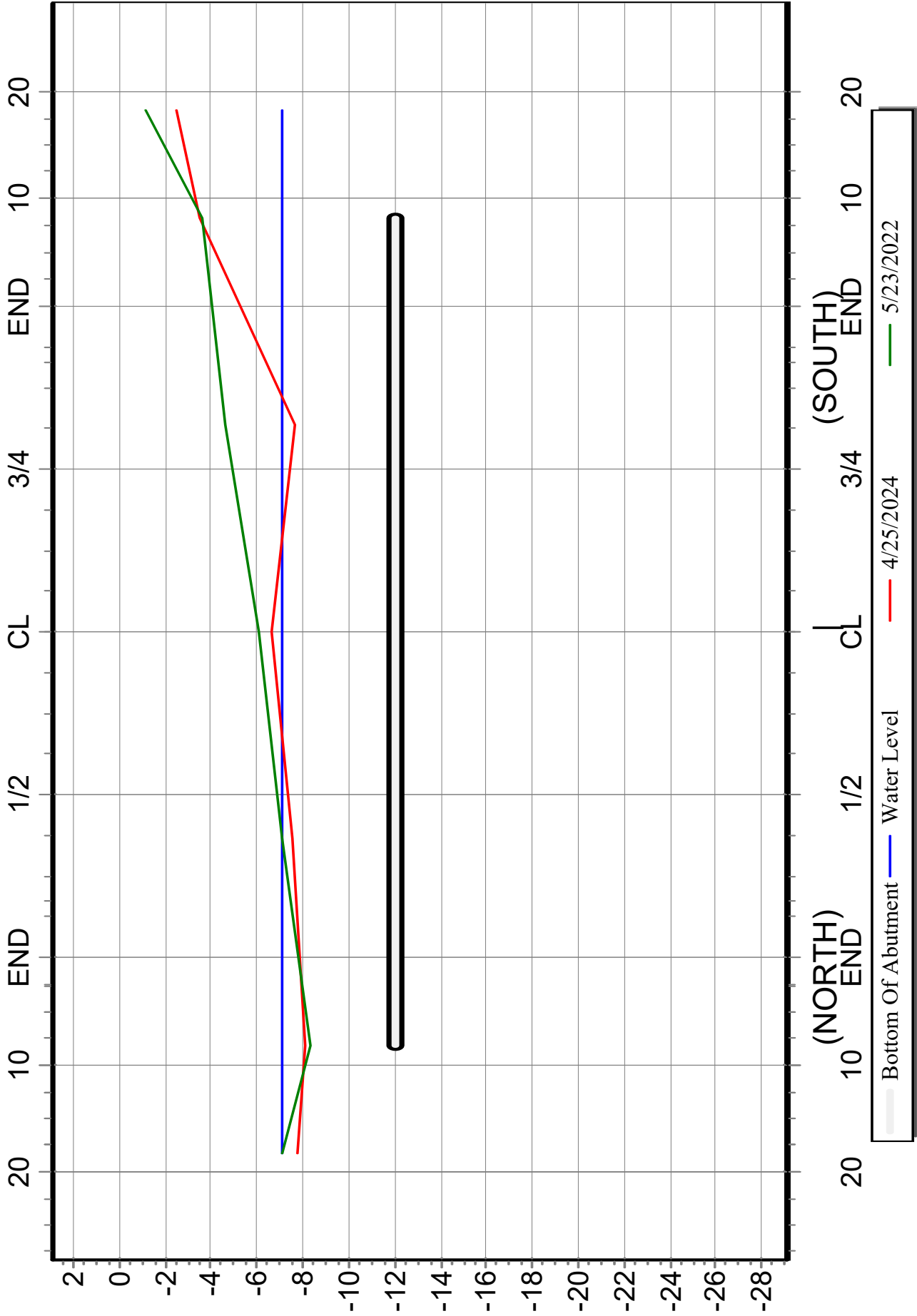
INSPECTED BY: SK 1 JM 1 MG 1



file Along Unit # 1 - WEST ABUTMENT For Bridge No.1229A

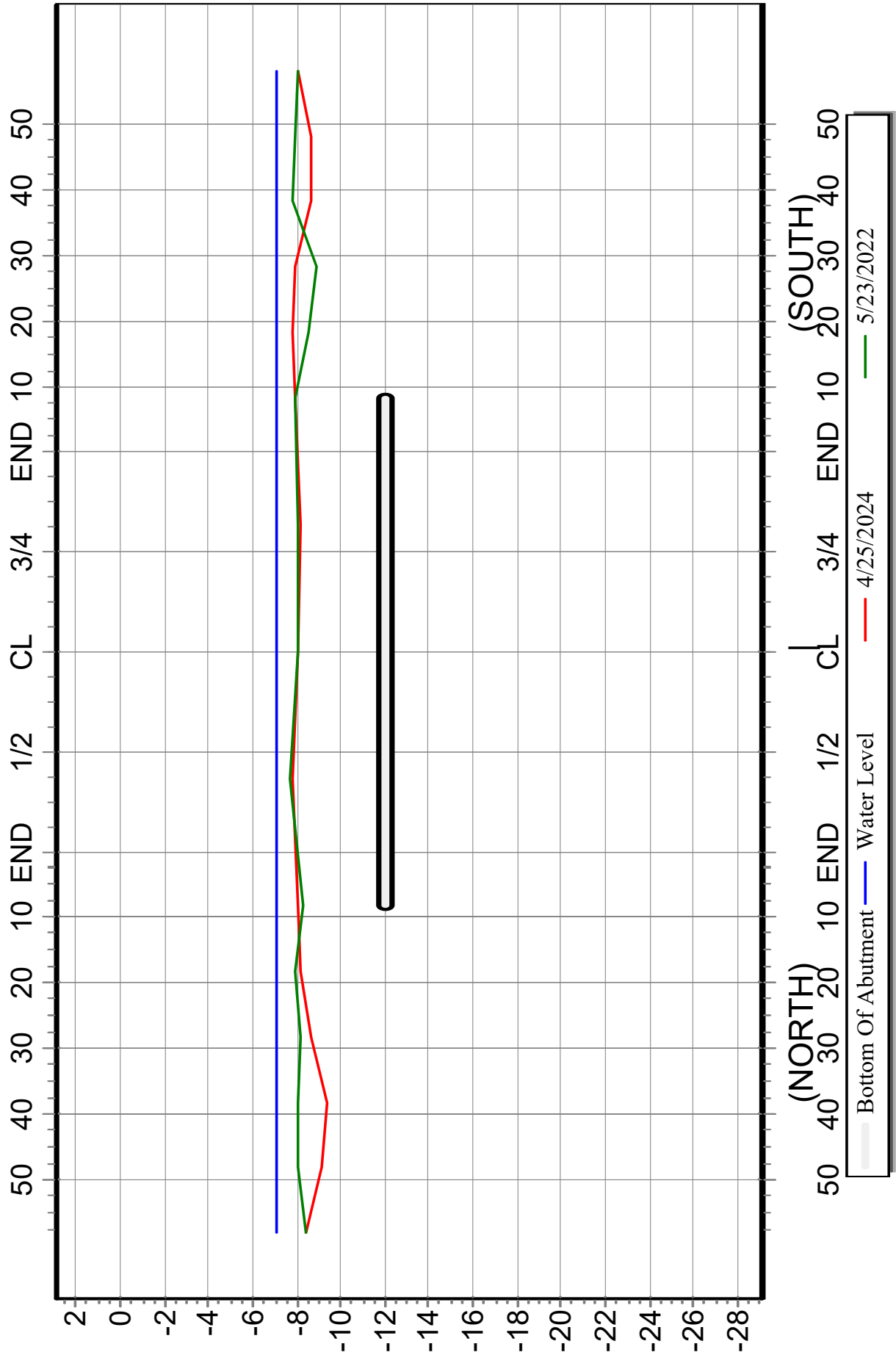


file Along Unit # 4 - EAST ABUTMENT For Bridge No.1229A



Thalweg Profile for 1229A011

Thalweg is in Span No. 1



DeIDOT Bridge Sounding Field Report Sheet

Bridge Number: 1-229A-011 Inspection Date: 4/25/24 Inspected by: SK/JM/MG

Distance Out From Face Of Bridge					Points Along Substructure Unit					Distance Out From Face Of Bridge				
50'	40'	30'	20'	10'	END	1/4	C/L	3/4	END	10'	20'	30'	40'	50'

Thalweg (deepest points along the channel)

1.3	2.0	2.3	1.5	1.1	1.0	0.7	1.0	1.1	0.8	0.7	0.8	1.5	1.5	0.9
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Spillway Location from "END" of Substructure Unit =

Spillway height (underclearance measurement - distance from water surface to top of spillway) =

Substructure Unit #4 = East Abut

0.7	1.0	0.4	-0.4	0.6	-3.6	-4.6
-----	-----	-----	------	-----	------	------

B

Substructure Unit #3 =

A

B

Substructure Unit #2 =

A

0.2	0.2	0.2	0.1	0.2	0.1	0.1
-----	-----	-----	-----	-----	-----	-----

Substructure Unit #1 = West Abut

 = Refer to 'General Notes' about blue blank boxes

Data Measurements Input

Underclearance (Note #1) = 7.1

Abutment width (Note #7) = 77.5'

Bottom of Abutment Footer (Note #2) = 12'

Thalweg is in span# = 1

Length of Abutment Piles (Note #3) = 999

Pier width (Note #8) = 999

Bottom of Pier Footer (Note #4) = 999

Number of Spans of Bridge = 1

Length of Pier Piles (Note #5) = 999

Abutment sheeting bottom (Note #6) = 999

Direction looking from Sub. Unit #1 to #4 = E

Datum (Note # E) Midspan @ South Fascia



1 WEST APPROACH



2 SOUTH ELEVATION



3 GENERAL VIEW LOOKING NORTH



4 UPSTREAM NORTH



5 DOWNSTREAM SOUTH



6 AC OVERLAY LOOKING NORTH



7 SOUTH SIDEWALK DEEP SPALLS AT EAST END



8 SOUTH METAL RAIL TEAR / DAMAGE WEST END



9 SOUTH METAL MISSING CONNECTION AT POST 2 FROM WEST



10 SOUTH RAIL DEEP SPALL NORTH FACE MID SPAN



11 AC OVERLAY WIDE CRACKS IN WESTBOUND LANE



12 NORTH RAIL EXP BARS w/LOSS OF SECTION AT WEST END



13 FIXED BEARING 1 OVER WEST ABUTMENT MISSING CONNECTION



14 GIRDER 1 TOP FLANGE CORROSION w/LOSS OF SECTION OVER WEST ABUTMENT



15 GIRDER 1 EXISTING PERFORATIONS IN STIFFNER OVER WEST BEARING



16 DIAPHRAGM BAY 2 CORROSIONN w/LOSS OF SECTION OVER WEST ABUTMENT



17 SOFFIT NORTH OVERHANG EXP BAR w/LOSS OF SECTON NEAR MID SPAN



18 SOFFIT BAY 1 DEEP SPALL NEAR MID SPAN



19 WEST ABUTMENT BACKWALL DEEP SPALL BEHIND GIRDER 1



20 ARCH DEEP SPALL SOUTH FACE ADJACENT TO GIRDER



21 SOUTHWEST WINGWALL DEEP SPALL MID SPAN

Bridge Maximo Maintenance History

WO Number	Reported Date	District	Area	Reported By	Changed By	Employee Name	Status	Wo Description	Priority	Function Code	FC Description	Unit of Measure	QA	Total Cost
94350	06/07/2005	CANAL	10		126972	Cattie,Sarah Putnam	CLOSE	Bridge 1-229A on Kirkwood Highway	0	11104.3	Bridge - B043-S3C - Abutment Wingwalls (Repair/ Replace)	Cube Yd	1	\$366.58
132277	04/25/2006	NORTH	23		025846	Douty,William A	CLOSE	BR: 1-229A / Work B003-S2J	0	11100.3	Bridge - B003-S2J - Bearings & Bearing Seat	Each	1	\$0.00
240000	06/18/2008	NORTH		Cuevas,Belkis A	081719	Cuevas,Belkis A	CLOSE	Kirkwood Hwy Bridge Pike Creek-temp speed		15402.4	Speed Limit Study	Each	1	\$0.00
241040	06/23/2008	CANAL	45	Kursinsky,Craig Douglas	144677	Haggerty,Sonya Marie Poirier	CLOSE	BR: 1-229A-011 / WORK: B005-S2K		11100.5	Bridge - B005-S2K - Spot Painting - Superstructure	Each	0	\$0.00
769155	05/18/2016	NORTH	11	Ortiz Zayas,Jose Luis	164247	White,Lauren Marie	CLOSE	BR: 1-229A-011 / WORK:B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	0	\$0.00
769188	05/18/2016	NORTH	11	Sobota,Darren J	164247	White,Lauren Marie	CLOSE	BR: 1229A011 / WORK: B025-P1A:	1	11102.5	Bridge - B025-P1A - Concrete Deck (Repair)	Sq Yd	0	\$0.00
915105	05/29/2018	NORTH	10	Masten,Joseph G	164247	White,Lauren Marie	CLOSE	BR: 1-229A-011 / WORK: B055-V1A:	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	0	\$0.00
915109	05/29/2018	CANAL	22	Masten,Joseph G	109768	Trent,Jeffrey R.	CLOSE	BR: 1-229A-011 / WORK: B22-S1D	2	11102.2	Bridge - B022-S1D - Bituminous Deck Wearing Surface (Repair/ Replace)	Sq Yd	0	\$172.60
915111	05/29/2018	NORTH	10	Masten,Joseph G	164247	White,Lauren Marie	CLOSE	BR: 1-229A-011 / WORK: B060-A1C	2	11106.0	Bridge - B060-A1C - Apply Protective Coating Deck/Parapet/ Sidewalk	Sq Yd	0	\$0.00
915113	05/29/2018	NORTH	10	Masten,Joseph G	164247	White,Lauren Marie	CLOSE	BR: 1-229A-011 / WORK: B001-P1A	2	11100.1	Bridge - B001-P1A - Clean/Flush Deck	Sq Yd	0	\$0.00
1064767	05/28/2020	NORTH	10	Sobota,Darren J	032963	Masten,Joseph G	CLOSE	BR: 1229A011 / B055-V1A:	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	0	\$0.00
1130816	04/21/2021	CANAL	CONTRACT	Pacheco,Mario L	125768	Pacheco,Mario L	CLOSE	Canal SMC-Bridge Maintenance on BR 1-229A SR 2 over Muddy Run	4	11107.1	Bridge - Maintenance and Repair	Cube Yd	1	\$0.00
1208243	05/23/2022	NORTH	10	Masten,Joseph G	199746	Fowler,Shannon Michelle	CLOSE	BR: 1-229A-011 / WORK: B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris	Cube Yd	1	\$0.00

Bridge Maximo Maintenance History

WO Number	Reported Date	District	Area	Reported By	Changed By	Employee Name	Status	Wo Description	Priority	Function Code	FC Description	Unit of Measure	QA	Total Cost
											(Removal)			
1208244	05/23/2022	NORTH	10	Masten,Joseph G	040765	Barczak III,John Joseph	APPR	BR: 1-229A-011 / WORK: B060-A1C	2	11106.0	Bridge - B060-A1C - Apply Protective Coating Deck/Parapet/ Sidewalk	Sq Yd		\$0.00
1208246	05/23/2022	NORTH	10	Masten,Joseph G	032963	Masten,Joseph G	CLOSE	BR: 1-229A-011 / WORK: B022-S1D	2	11102.2	Bridge - B022-S1D - Bituminous Deck Wearing Surface (Repair/ Replace)	Sq Yd	0	\$0.00
1208249	05/23/2022	NORTH	10	Masten,Joseph G	199746	Fowler,Shannon Michelle	CLOSE	BR: 1-229A-011 / WORK: B001-P1A	1	11100.1	Bridge - B001-P1A - Clean/Flush Deck	Sq Yd	12	\$0.00
1341310	05/03/2024	NORTH	10	Masten,Joseph G	032963	Masten,Joseph G	WAPPR	BR: 1-229A011 / WORK: B022-S1D	2	11102.2	Bridge - B022-S1D - Bituminous Deck Wearing Surface (Repair/ Replace)	Sq Yd		\$0.00
1341312	05/03/2024	NORTH	10	Masten,Joseph G	032963	Masten,Joseph G	WAPPR	BR: 1-229A011 / WORK: B060-A1C	3	11106.0	Bridge - B060-A1C - Apply Protective Coating Deck/Parapet/ Sidewalk	Sq Yd		\$0.00