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Bridge No: 1279E003
 Date of Inspection: 05/03/2022
 Load Rating Date: 09/12/2018

Print Date:
 Report Uploaded 16-Jun-22

Sufficiency Rating: 100.0 SD/FO: ND

IDENTIFICATION

Bridge ID: 1279E003

5) Inventory Route

A) On/Under: Route On Structure

D) Route No: 00273

6) Feature Intersected: CHRISTINA RIVER

7) Facility Carried: CHRISTIANA BYPASS

9) Location: W. OF NEW CASTLE AIRPORT

16) Latitude: 39° 39' 33"

98) Border Bridge Code: Not Applicable (P)

2) District: Canal District

B) Highway Type: 3 State Hwy

E) Direction: 0 N/A (NBI)

3) County: 03 New Castle

4) Place Code: Christiana

C) Service Lvl: 1 Mainline

11) Mile Pnt: 0.800 mi

17) Longitude: 075° 39' 44"

99) Border Br. Str. No.: Unknown

STRUCTURE TYPE AND MATERIALS

43 A & B) Main Span Mtrl/Design: 4 Steel Continuous 02 Stringer/Girder

44 A & B) Appr Span Mtrl/Design:

45) Main Spans: 3

108A) Wearing Surface: 1 Monolithic Concrete

Deck Sealing: Epoxy

Pier 1: 32

Pier 2: NA

Abut 1: 1

Abut 2: NA

46) Approach Spans: 0

108B) Membrane: 0 None

Deck Sealing Date: 01/01/1901

Pier Ftg.1: B

Abut Ftg.1: B

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

108C) Deck Prot: 1 Epoxy Coated Reinforci

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: 0.0 mi

28) No. of Lanes

29) ADT: 17840

42) Type of Service

106) Year Reconst.: NA

27) Year Built: 1981

A) On Bridge: 2

30) Year of ADT: 2021

A) On Bridge: 1 Highway

109) % Truck ADT: 8

B) Under Br.: 0

B) Under Br.: 5 Waterway

CLASSIFICATION

12) Base Hwy Network: 1

20) Toll Facility: 3 On free road

26) Functional Class: 14 Urban Other Princ

101) Parallel Str.: Right of || bridge

104) Hwy System: 1 On the NHS

112) NBIS Length: Long Enough

13A) LRS Inv. Rte: 0000000003

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: 1 1-way traffic

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

LOAD RATING AND POSTING

31) Design Load: 5 MS 18 (HS 20)

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: 1.86 rf

70) Br Posting: 5 At/Above Legal Loads

66) Inv. Rating: 1.44 rf

Rating Date: 09/12/2018

Date of Resolution: NA

S335:

T435:

SU5:

EV2:

S437:

T540:

SU6:

EV3:

PROPOSED IMPROVEMENTS

75) Type of Work: Unknown (P)

94) Bridge Cost: \$0

96) Total Cost: \$0

114) Future ADT: 22,750

76) Length of Imp.: -1.0 ft

95) Rdwy Cost: \$0

97) Yr of Cost Est: Unknown

115) Yr of Fut. ADT: 2042

CONTRACT INFORMATION

Contract 1: 7901107

Contract 4: NA

Contract 2: NA

Contract 5: NA

Contract 3: NA

Contract 6: NA

INSPECTION

90) Inspection Date: 5/3/2022

92A) FC Frequency:

92B) UW Frequency:

92C) SI Frequency:

Element Frequency: 24 months

UBIV Required: Y

UBIV Freq: 48

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: 5/3/2022

UBIV Days: 01

UBIV Insp Date: 05/04/2020

Tidal: Y

LC Insp Date: 01/01/1901

Next Insp.: 5/3/2024

Next FC Insp: NA

Next UW Insp.: NA

Next SI: NA

Next El. Insp.: 5/3/2024

Inspection Zone: 05

GPS: Y

CONDITION

58) Deck: 7 Good

61) Channel: 7 Minor Damage

62) Culvert: N N/A (NBI)

59) Superstructure: 6 Satisfactory 60) Sub Str: 7 Good

APPRAISAL

36) Traffic Safety Features

A) Bridge Rail: 1 Meets Standards

D) Approach Rail Ends: 1 Meets Standards

67) Str. Evaluation: 6 Equal Min Criteria

71) Waterway Adequacy: 9 Above Desirable

113) Scour Critical: 8 Stable Above Footing

B) Transition: 1 Meets Standards

C) Appr. Rail: 0 Substandard

68) Deck Geometry: 7 Above Min Criteria 69) Under Clr: N Not applicable (NBI)

72) Approach Alignment: 8 Equal Desirable Crit

GEOMETRIC DATA

32) Appr. Rdwy Width (w/ Shldrs): 42.66 ft

34) Skew: 00°

48) Length Max Span: 85.00 ft

50) Curb or Sidewalk

51) Width Curb to Curb : 40.83 ft

53) Minimum Vertical Clearance Over Bridge:

54) Vertical Underclearance

55) Lateral Underclearance

56) Minimum Lateral Underclearance - Minimum Left: 0.00 ft

33) Median: 0 No median

35) Structure Flared: 0 No flare

49) Structure Length: 221.00 ft

A) Left: 0.00 ft

B) Right: 0.00 ft

52) Width Out to Out: 43.50 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

ELEMENT CONDITION STATE DATA

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4
12/4	Re Concrete Deck	sq.ft	9,514.00	9,464.00	50.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
107/2	Steel Opn Girder/Beam	ft	1,356.00	477.00	850.00	29.00	0.00
515/2	Steel Protective Coating	sq.ft	367.00	367.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	360.00	310.00	0.00	0.00	50.00
815/2	Weathering Steel Protection	sq.ft	3,840.00	1,080.00	0.00	2,560.00	200.00
815/2	Weathering Steel Protection	sq.ft	3,794.00	1,221.00	0.00	2,573.00	0.00
815/2	Weathering Steel Protection	sq.ft	5,610.00	1,934.00	0.00	3,633.00	43.00
210/2	Re Conc Pier Wall	ft	40.00	39.00	0.00	1.00	0.00
215/2	Re Conc Abutment	ft	104.00	102.00	0.00	2.00	0.00
234/2	Re Conc Pier Cap	ft	78.00	78.00	0.00	0.00	0.00
300/4	Strip Seal Exp Joint	ft	86.00	56.00	15.00	13.00	2.00
301/1	Pourable Joint Seal	ft	40.00	18.00	0.00	0.00	22.00
311/2	Moveable Bearing	each	18.00	16.00	0.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	36.00	24.00	0.00	0.00	12.00
313/2	Fixed Bearing	each	6.00	5.00	1.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	36.00	36.00	0.00	0.00	0.00
321/4	Re Conc Approach Slab	sq.ft	2,050.00	2,049.00	0.00	1.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,015.00	10.00	0.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,010.00	10.00	5.00	0.00
331/4	Re Conc Bridge Railing	ft	518.00	457.00	43.00	18.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
825/2	R/C Abutment Backwall	ft	104.00	94.00	10.00	0.00	0.00
839/1	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00
881/2	Steel Diap	(EA)	70.00	42.00	28.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	180.00	180.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	216.00	216.00	0.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	900.00	540.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	720.00	360.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	540.00	252.00	0.00	288.00	0.00
890/2	RC Wingwalls	(LF)	78.00	78.00	0.00	0.00	0.00
520/2	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00

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Report Uploaded 16-Jun-22

INSPECTION

Inspection Date: 05/03/2022 06/28/2022 Type: 1 Regular NBI
Inspector: Darren Sobota *DJ Sobota* BrM User:
Scope:
NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical ☐

INSPECTION NOTES

INSPECTION BY: DSOBOTA(TL,I,P,S), SKOMAR(R)
ADDITIONAL MAXIMO MAINTENANCE:
1205263 B007-S1H: CLEAN & RESEAL MISSING POURED JOINTS AT S ABUT / SE & SW WINGWALL
RAIL TO APPROACH SLABS.
1205264 B022-S1D: REMOVE CRACKED/DELAM ASPHALT. THEN REPAIR ASPHALT APPROACH SLAB
SPALLS & SEAL HOT MIX ASPHALT CRACKS.

STRUCTURE NOTES

Year Bridge Painted:	NA	Comments:
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: BRYAN MORGAN
....NOTE: SCALE FACTORS ENTERED BY GRD ON 08/10/06, DO NOT CHANGE....

ELEMENT CONDITION STATE DATA FOR SPAN 1

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
12/4	Re Concrete Deck	sq.ft	9,514.00	9,464.00	50.00	0.00	0.00	CONCRETE DECK WEARING SURFACE 1130 CS1-4807 SF: ~HALF OF DECK WEARING SURFACE HAS HAIRLINE DECK CRACKS IN TRAVEL LANES. DECK SOFFIT: 1120 CS2-50 SF: NORTH & SOUTH OVERHANGS HAVE RANDOM TRANSVERSE CRACKS WITH LIGHT EFFLORESCENCE. (~NO CHANGE 2022)
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	
1120/4	Efflorescence/Rust Staining	sq.ft	50.00	0.00	50.00	0.00	0.00	-
1130/4	Cracking (RC and Other)	sq.ft	4,807.00	4,807.00	0.00	0.00	0.00	
107/2	Steel Opn Girder/Beam	ft	420.00	139.00	256.00	25.00	0.00	1000 CS3-003 LF: NORTH EXTERIOR PAINTED STEEL GIRDER HAS LAMINAR CORROSION NEAR WEST END (PHOTO 7). 1000 CS3-002 LF: NORTH EXTERIOR PAINTED STEEL GIRDER HAS PAINTED OVER CORROSION NEAR W END (PHOTO 7). 1000 CS3-020 LF: NORTH EXTERIOR WEATHERING STEEL GIRDER HAS LAMINAR CORROSION NEAR W END (PHOTO 7). 1000 CS2-128 LF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS. 1000 CS2-128 LF: RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS.
515/2	Steel Protective Coating	sq.ft	360.00	310.00	0.00	0.00	50.00	CS4-050 SF: NORTH EXTERIOR PAINTED STEEL GIRDER HAS PAINTED OVER CORROSION NEAR WEST END (PHOTO 7).
815/2	Weathering Steel Protection	sq.ft	3,840.00	1,080.00	0.00	2,560.00	200.00	CS4-0200 SF: NORTH EXTERIOR WEATHERING STEEL GIRDER HAS LAMINAR CORROSION NEAR W END (PHOTO 7). CS3-1280 SF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS. CS3-1280 SF: RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS. (~NO CHANGE 2022)
1000/2	Corrosion	ft	281.00	0.00	256.00	25.00	0.00	-
210/2	Re Conc Pier Wall	ft	20.00	19.00	0.00	1.00	0.00	1090 CS3-1 LF: SPAN 1 WEST PIERWALL EXPOSED PITTED BARS AND SPALL AT NORTH END (PHOTO 8). (NO CHANGE 2022)
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00	-
215/2	Re Conc Abutment	ft	52.00	50.00	0.00	2.00	0.00	1120 CS3-2 LF: W ABUT BREASTWALL ~36 & 43 FT FROM SOUTH END, HAS RUST STAINS & CRACKS (PHOTO 9).
1120/2	Efflorescence/Rust Staining	ft	4.00	2.00	0.00	2.00	0.00	-
234/2	Re Conc Pier Cap	ft	39.00	39.00	0.00	0.00	0.00	CS1- HAIRLINE RANDOM VERTICAL CRACKS AT PEDESTAL INTERFACES AND MAP CRACKS. (NO CHANGE 2022)

ELEMENT CONDITION STATE DATA FOR SPAN 1

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
300/4	Strip Seal Exp Joint	ft	43.00	23.00	5.00	13.00	2.00	2330 CS4-2 LF: STRIP SEAL JOINT GLAD IS PERFORATED & WATER IS LEAKING ~28-29 FT FROM SOUTH END (PHOTO 10 & 11). 2360 CS3-1 LF: STRIP SEAL JOINT HEADER RUST STAINED CRACKS NEAR SOUTH END (PHOTO 12). 2360 CS3-3 LF: STRIP SEAL JOINT HEADER LG SPALLS ON NORTH AND S SHOULDERS (PHOTO 13). 2360 CS3-6 LF: STRIP SEAL JOINT HEADER ~3/4 INCH WIDE CRACK NEAR CENTER RD (PHOTO 14). 2370 CS3-3 LF: STRIP SEAL JOINT ARMOR CORROSION AND PITTING ON RANDOM EDGES (2020 PHOTO 11). 2360 CS2-5 LF: HEADER DELAMINATED AT RANDOM LOCATIONS.
2330/4	Seal Damage	ft	2.00	0.00	0.00	0.00	2.00	-
2360/4	Adjacent Deck or Header	ft	15.00	0.00	5.00	10.00	0.00	-
2370/4	Metal Deterioration or Damage	ft	3.00	0.00	0.00	3.00	0.00	-
301/1	Pourable Joint Seal	ft	20.00	0.00	0.00	0.00	20.00	2330 CS4-20 LF: POURED JOINT IS MISSING AT SOUTHWEST WINGWALL & AT SOUTH END OF WEST ABUTMENT (2020 PH 14). (-NO CHANGE 2022)
2320/1	Seal Adhesion	ft	20.00	0.00	0.00	0.00	20.00	-
311/2	Moveable Bearing	each	6.00	6.00	0.00	0.00	0.00	CS1- 6 EA: MOVABLE BEARINGS AT WEST ABUTMENT ARE GREASED AND PAINTED. (NO CHANGE 2022)
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1- COATED IN GREASE & PAINT (NO CHANGE 2022)
313/2	Fixed Bearing	each	6.00	5.00	1.00	0.00	0.00	1020 CS2-1 EA: FIXED BEARING 5 AT PIER 1 HAS A LOOSE FASTENER ON THE NORTH SIDE. (NO CHANGE 2022)
815/2	Weathering Steel Protection	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1- FIXED BEARING WEATHERING STEEL PROTECTION IS IN-TACT. (NO CHANGE 2022)
1020/2	Connection	each	1.00	0.00	1.00	0.00	0.00	-
321/4	Re Conc Approach Slab	sq.ft	1,025.00	1,024.00	0.00	1.00	0.00	CS3-1 SF: DEEP APPROACH SLAB SPALL AT SE CORNER (2020 PHOTO 14). CS1- WEST APPROACH SLAB IS MOSTLY COVERED IN ASPHALT OVERLAY.
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	-
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,015.00	10.00	0.00	0.00	3220 CS2-10 SF: W APPROACH SLAB IS COVERED IN ASPHALT OVERLAY & HAS ~1/16 INCH CRACKS NEAR W ABUT. (NO CHANGE 2020)
3220/4	Crack (Wearing Surface)	sq.ft	10.00	0.00	10.00	0.00	0.00	-
1080/4	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	0.00	1.00	0.00	-
331/4	Re Conc Bridge Railing	ft	174.00	147.00	15.00	12.00	0.00	1080 CS3-07 LF: S RC RAIL ~ 12, 25, 36, 42, 68, 81 & 88 FT FROM W END HAS LG/DEEP SPALLS AT THE BOTTOM (PHOTO 15). 1080 CS3-05 LF: N RC RAIL ~1, & FT FROM WEST END HAS SMALL/SALLOW SPALLS AT BOTTOM AT W ABUT. 1120 CS2-12 LF: N & S RAILS HAVE EFFLORESCENCE AT JOINTS & RANDOM CRACKS ON S FACE OF SW WING & NW MEDIAN. 1090 CS2-02 LF: N RC RAIL ~62 & 64 FT FROM W END HAS EXPOSED BARS DUE TO LACK OF COVER ON S FACE NEAR TOP. 1090 CS2-01 LF: S RC RAIL ~22 FT FROM W END AT JOINT BETWEEN JOINT EXPOSED BAR DUE TO LACK OF COVER.
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	-
1080/4	Delamination/Spall/Patched Area	ft	12.00	0.00	0.00	12.00	0.00	-
1090/4	Exposed Rebar	ft	3.00	0.00	3.00	0.00	0.00	-
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00	-

ELEMENT CONDITION STATE DATA FOR SPAN 1

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	52.00	46.00	6.00	0.00	0.00	1120 CS2-2 LF: W ABUT BACKWALL ~2 & 43 FT FROM S END, EFFLORESCENCE AT A HAIRLINE CRACK. 1130 CS2-1 LF: W ABUT BACKWALL/CHEEKWALL AT SOUTH END ~1/16 INCH WIDE CRACK IN SOUTH FACE AT TOP. 1130 CS2-3 LF: W ABUT BACKWALL ~5, 8 & 35 FT FROM S END, ~1/16 INCH WIDE PEDESTAL/BACKWALL CRACKS.
839/1	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00	CS1-1 EA: SOFFIT HAS LESS THAN 2 PERCENT DISTRESS. SEE ELEMENT 12 FOR DEFECTS AND LOCATIONS. SOFFIT IS COVERED IN STEEL DECK PANS WITH THE EXCEPTION OF THE OVERHANGS (NO CHANGE 2022)
881/2	Steel Diap	(EA)	25.00	15.00	10.00	0.00	0.00	1000 CS2-10 EA: RANDOM DIAPHRAGMS HAVE GRANULAR TEXTURE AND CORROSION DUST ON BOTTOMS (2020 PHOTO 16). (NO CHANGE 2022)
515/2	Steel Protective Coating	sq.ft	180.00	180.00	0.00	0.00	0.00	NDN (NO CHANGE 2020)
815/2	Weathering Steel Protection	sq.ft	720.00	360.00	0.00	360.00	0.00	CS3-360 SF: RANDOM GRANULAR CORROSION. (~NO CHANGE 2022)
890/2	RC Wingwalls	(LF)	39.00	39.00	0.00	0.00	0.00	SUPERFICIAL DEFECTS (NO CHANGE 2022)
520/2	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	2.00	0.00	0.00	
1130/2	Cracking (RC and Other)	ft	4.00	0.00	4.00	0.00	0.00	

ELEMENT CONDITION STATE DATA FOR SPAN 2

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
107/2	Steel Opn Girder/Beam	ft	522.00	180.00	338.00	4.00	0.00	1000 CS3-004 LF: NORTH EXTERIOR WEATHERING STEEL GIRDER HAS LAMINAR PACK RUST AT SPLICE PLATES (PHOTO 17). 1000 CS2-167 LF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS. 1000 CS2-171 LF: RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS. (NO CHANGE 2022)
815/2	Weathering Steel Protection	sq.ft	5,610.00	1,934.00	0.00	3,633.00	43.00	CS4-0043 SF: NORTH EXTERIOR WEATHERING STEEL GIRDER HAS LAMINAR PACK RUST AT SPLICE PLATE (PH 18). CS3-3633 SF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS AND RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS. (~NO CHANGE 2022)
1000/2	Corrosion	ft	342.00	0.00	338.00	4.00	0.00	-
210/2	Re Conc Pier Wall	ft	20.00	20.00	0.00	0.00	0.00	SUPERFICIAL DEFECTS (NO CHANGE 2022)
234/2	Re Conc Pier Cap	ft	39.00	39.00	0.00	0.00	0.00	SUPERFICIAL DEFECTS (NO CHANGE 2022)
311/2	Moveable Bearing	each	6.00	4.00	0.00	2.00	0.00	1000 CS3-2 EA: LARGE FLAKES OF CORROS ON SOLE PLATE OF FACIA GIRDERS & LATERAL DISPLACE (PH18 & 2020 PH18). NOTE: GIRDER 2 BEARING IS ATTACHED TO THE GIRDER & FIXED Laterally WITH WELDED KEEPER PLATES. (NO CHANGE 2022)
815/2	Weathering Steel Protection	sq.ft	36.00	24.00	0.00	0.00	12.00	CS4-12 SF: LRGE FLAKES OF CORROSION ON SOLE PLATE OF FACIA GIRDERS & LATERAL DISPLACEM (PH 18 & 2020 PH18). (~NO CHANGE 2022)
1000/2	Corrosion	each	2.00	0.00	0.00	2.00	0.00	-
331/4	Re Conc Bridge Railing	ft	170.00	152.00	16.00	2.00	0.00	1080 CS3-02 LF: S RC RAIL ~98 & 142 FT FROM W END HAS LG/DEEP SPALLS AT BOTTOM OF N FACE. 1080 CS2-02 LF: S RC RAIL ~112 & 159 FT FROM W END HAS SMALL SPALL/DELAM AT BOTTOM OF N FACE. 1080 CS2-01 LF: N RC RAIL ~90 FT FROM W END HAS SMALL SPALL/DELAM AT BOTTOM OF SOUTH FACE. 1120 CS2-12 LF: N & S RAILS HAVE EFFLORESCENCE AT JOINTS ON OUTSIDE FACES. 1090 CS2-01 LF: S RC RAIL ~122 FT FROM W END HAS EXPOSED BAR DUE TO LACK OF COVER ON NORTH FACE NEAR TOP.
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	3.00	2.00	0.00	-
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00	
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00	
881/2	Steel Diap	(EA)	25.00	15.00	10.00	0.00	0.00	1000 CS2-10 EA: RANDOM WEATHERING STEEL DIAPHRAGMS HAVE GRANULAR SURFACE CORROSION. (NO CHANGE 2022)
815/2	Weathering Steel Protection	sq.ft	900.00	540.00	0.00	360.00	0.00	NOTE: MULTIPLY THE QUANTITY BELOW BY 36 TO GET THE COMPUTER QUANTITY CS2-10 SF: RANDOM WEATHERING STEEL DIAPHRAGMS HAVE GRANULAR SURFACE CORROSION.
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00	-

ELEMENT CONDITION STATE DATA FOR SPAN 3

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
107/2	Steel Opn Girder/Beam	ft	414.00	158.00	256.00	0.00	0.00	1000 CS2-128 LF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS. 1000 CS2-128 LF: RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS. (NO CHANGE 2022)
515/2	Steel Protective Coating	sq.ft	367.00	367.00	0.00	0.00	0.00	NDN (NC-20)
815/2	Weathering Steel Protection	sq.ft	3,794.00	1,221.00	0.00	2,573.00	0.00	CS3-2573 SF: RANDOM ~3/8 INCH DIAMETER FLAKES OF CORROSION PRIMARILY ON N & S FACIA GIRDERS & RANDOM GRANULAR CORROSION PRIMARILY ON THE INTERIOR GIRDERS. (NO CHANGE 2022)
1000/2	Corrosion	ft	256.00	0.00	256.00	0.00	0.00	-
215/2	Re Conc Abutment	ft	52.00	52.00	0.00	0.00	0.00	CS1- SUPERFICIAL DEFECTS
300/4	Strip Seal Exp Joint	ft	43.00	33.00	10.00	0.00	0.00	2360 CS2-10 LF: HEADER DELAMINATED AT RANDOM LOCATIONS. (NO CHANGE 2020)
2360/4	Adjacent Deck or Header	ft	10.00	0.00	10.00	0.00	0.00	-
301/1	Pourable Joint Seal	ft	20.00	18.00	0.00	0.00	2.00	2330 CS4-2 LF: POURED JOINT ALONG EAST ABUTMENT AND SE WINGWALL IS MISSING.
2320/1	Seal Adhesion	ft	2.00	0.00	0.00	0.00	2.00	-
311/2	Moveable Bearing	each	6.00	6.00	0.00	0.00	0.00	CS1- 6 EA: GREASED AND PAINTED. (NO CHANGE 2022)
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1- E ABUT BEARINGS GREASED AND PAINTED. (NO CHANGE 2022)
321/4	Re Conc Approach Slab	sq.ft	1,025.00	1,025.00	0.00	0.00	0.00	CS1- EAST APPROACH SLAB IS COVERED IN ASPHALT & NOT VISIBLE. SEE ELEMENT 811 FOR OVERLAY DETAILS. (NO CHANGE 2022)
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,010.00	10.00	5.00	0.00	3210 CS3-05 SF: EAST APPROACH SLAB ASPHALT OVERLAY HAS DEEP SPALLS OVER E ABUTMENT AT RANDOM (PH 19). 3220 CS2-10 SF: EAST APPROACH SLAB ASPHALT OVERLAY HAS CRACKS NEAR EAST ABUTMENT IN TRAFFIC LANES (PH 19).
3210/4	Del/Spall/Patch/Pot(Wear Surf)	sq.ft	5.00	0.00	0.00	5.00	0.00	-
3220/4	Crack (Wearing Surface)	sq.ft	10.00	0.00	10.00	0.00	0.00	-
331/4	Re Conc Bridge Railing	ft	174.00	158.00	12.00	4.00	0.00	1080 CS3-01 LF: N RC RAIL ~127 FT FROM W END LG/DEEP SPALLS AT BOTTOM OF S FACE (PHOTO 20). 1080 CS3-03 LF: S RC RAIL ~201, 260 & 265 FT FROM W END HAS LG/DEEP SPALLS AT BOTTOM OF N FACE. 1080 CS2-01 LF: S RC RAIL ~231 FT FROM W END HAS SMALL SPALL/DELAM AT BOTTOM OF N FACE. 1090 CS2-01 LF: N RC RAIL ~128 FT FROM W END HAS EXPOSED UNPITTED BAR ON S FACE (PHOTO 20). 1120 CS2-10 LF: N & S RAILS HAVE EFFLORESCENCE AT JOINTS AND ON OUTSIDE FACE ABOVE SE WINGWALL.
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00	
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	1.00	4.00	0.00	-
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00	
1120/4	Efflorescence/Rust Staining	ft	10.00	0.00	10.00	0.00	0.00	-
825/2	R/C Abutment Backwall	ft	52.00	48.00	4.00	0.00	0.00	1120 CS2-3 LF: EAST ABUTMENT BACKWALL AT 15, 17 AND 23 FEET FROM SOUTH END HAS EFFLORESCENCE AT CRACKS. 1130 CS2-1 LF: EAST ABUTMENT BACKWALL AT ~44 FEET FROM SOUTH END IS A ~1/16 INCH WIDE CRACK.

ELEMENT CONDITION STATE DATA FOR SPAN 3

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
881/2	Steel Diap	(EA)	20.00	12.00	8.00	0.00	0.00	1000 CS2-8 EA: RANDOM WEATHERING STEEL DIAPHRAGMS HAVE GRANULAR SURFACE CORROSION. (NO CHANGE 2022)
515/2	Steel Protective Coating	sq.ft	216.00	216.00	0.00	0.00	0.00	NDN (NO CHANGE 2022)
815/2	Weathering Steel Protection	sq.ft	540.00	252.00	0.00	288.00	0.00	CS3-288 SF: RANDOM WEATHERING STEEL DIAPHRAGMS HAVE GRANULAR SURFACE CORROSION. (~NO CHANGE 2022)
1000/2	Corrosion	(EA)	8.00	0.00	8.00	0.00	0.00	-
890/2	RC Wingwalls	(LF)	39.00	39.00	0.00	0.00	0.00	SUPERFICIAL DEFECTS (NO CHANGE 2022)
1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	3.00	0.00	0.00	
1130/2	Cracking (RC and Other)	ft	1.00	1.00	0.00	0.00	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
12/4	Re Concrete Deck	sq.ft	9,514.00	9,464.00	50.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	sq.ft	50.00	0.00	50.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	sq.ft	50.00	0.00	50.00	0.00	0.00
1130/4	Cracking (RC and Other)	sq.ft	4,807.00	4,807.00	0.00	0.00	0.00
1130/4	Cracking (RC and Other)	sq.ft	4,807.00	4,807.00	0.00	0.00	0.00
107/2	Steel Opn Girder/Beam	ft	1,356.00	477.00	850.00	29.00	0.00
515/2	Steel Protective Coating	sq.ft	367.00	367.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	367.00	367.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	360.00	310.00	0.00	0.00	50.00
515/2	Steel Protective Coating	sq.ft	360.00	310.00	0.00	0.00	50.00
815/2	Weathering Steel Protection	sq.ft	5,610.00	1,934.00	0.00	3,633.00	43.00
815/2	Weathering Steel Protection	sq.ft	5,610.00	1,934.00	0.00	3,633.00	43.00
815/2	Weathering Steel Protection	sq.ft	3,794.00	1,221.00	0.00	2,573.00	0.00
815/2	Weathering Steel Protection	sq.ft	3,794.00	1,221.00	0.00	2,573.00	0.00
815/2	Weathering Steel Protection	sq.ft	3,840.00	1,080.00	0.00	2,560.00	200.00
815/2	Weathering Steel Protection	sq.ft	3,840.00	1,080.00	0.00	2,560.00	200.00
1000/2	Corrosion	ft	342.00	0.00	338.00	4.00	0.00
1000/2	Corrosion	ft	342.00	0.00	338.00	4.00	0.00
1000/2	Corrosion	ft	281.00	0.00	256.00	25.00	0.00
1000/2	Corrosion	ft	281.00	0.00	256.00	25.00	0.00
1000/2	Corrosion	ft	256.00	0.00	256.00	0.00	0.00
1000/2	Corrosion	ft	256.00	0.00	256.00	0.00	0.00
210/2	Re Conc Pier Wall	ft	40.00	39.00	0.00	1.00	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
215/2	Re Conc Abutment	ft	104.00	102.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	4.00	2.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	4.00	2.00	0.00	2.00	0.00
234/2	Re Conc Pier Cap	ft	78.00	78.00	0.00	0.00	0.00
300/4	Strip Seal Exp Joint	ft	86.00	56.00	15.00	13.00	2.00
2330/4	Seal Damage	ft	2.00	0.00	0.00	0.00	2.00
2330/4	Seal Damage	ft	2.00	0.00	0.00	0.00	2.00
2360/4	Adjacent Deck or Header	ft	10.00	0.00	10.00	0.00	0.00
2360/4	Adjacent Deck or Header	ft	10.00	0.00	10.00	0.00	0.00
2360/4	Adjacent Deck or Header	ft	15.00	0.00	5.00	10.00	0.00
2360/4	Adjacent Deck or Header	ft	15.00	0.00	5.00	10.00	0.00
2370/4	Metal Deterioration or Damage	ft	3.00	0.00	0.00	3.00	0.00
2370/4	Metal Deterioration or Damage	ft	3.00	0.00	0.00	3.00	0.00
301/1	Pourable Joint Seal	ft	40.00	18.00	0.00	0.00	22.00
2320/1	Seal Adhesion	ft	20.00	0.00	0.00	0.00	20.00
2320/1	Seal Adhesion	ft	20.00	0.00	0.00	0.00	20.00
2320/1	Seal Adhesion	ft	2.00	0.00	0.00	0.00	2.00
2320/1	Seal Adhesion	ft	2.00	0.00	0.00	0.00	2.00
311/2	Moveable Bearing	each	18.00	16.00	0.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	36.00	24.00	0.00	0.00	12.00
815/2	Weathering Steel Protection	sq.ft	36.00	24.00	0.00	0.00	12.00

1000/2	Corrosion	each	2.00	0.00	0.00	2.00	0.00
1000/2	Corrosion	each	2.00	0.00	0.00	2.00	0.00
313/2	Fixed Bearing	each	6.00	5.00	1.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	36.00	36.00	0.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	36.00	36.00	0.00	0.00	0.00
1020/2	Connection	each	1.00	0.00	1.00	0.00	0.00
1020/2	Connection	each	1.00	0.00	1.00	0.00	0.00
321/4	Re Conc Approach Slab	sq.ft	2,050.00	2,049.00	0.00	1.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,010.00	10.00	5.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,010.00	10.00	5.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,015.00	10.00	0.00	0.00
811/4	Asphaltic Conc. Wearing Surface	sq.ft	1,025.00	1,015.00	10.00	0.00	0.00
1080/4	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	0.00	1.00	0.00
1080/4	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	0.00	1.00	0.00
331/4	Re Conc Bridge Railing	ft	518.00	457.00	43.00	18.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/4	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	3.00	2.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	3.00	2.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	12.00	0.00	0.00	12.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	12.00	0.00	0.00	12.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	1.00	4.00	0.00
1080/4	Delamination/Spall/Patched Area	ft	5.00	0.00	1.00	4.00	0.00
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1090/4	Exposed Rebar	ft	3.00	0.00	3.00	0.00	0.00
1090/4	Exposed Rebar	ft	3.00	0.00	3.00	0.00	0.00
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1090/4	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	12.00	0.00	12.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	10.00	0.00	10.00	0.00	0.00
1120/4	Efflorescence/Rust Staining	ft	10.00	0.00	10.00	0.00	0.00
825/2	R/C Abutment Backwall	ft	104.00	94.00	10.00	0.00	0.00
839/1	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00
881/2	Steel Diap	(EA)	70.00	42.00	28.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	180.00	180.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	180.00	180.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	216.00	216.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	216.00	216.00	0.00	0.00	0.00
815/2	Weathering Steel Protection	sq.ft	900.00	540.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	900.00	540.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	720.00	360.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	720.00	360.00	0.00	360.00	0.00
815/2	Weathering Steel Protection	sq.ft	540.00	252.00	0.00	288.00	0.00

815/2	Weathering Steel Protection	sq.ft	540.00	252.00	0.00	288.00	0.00
1000/2	Corrosion	(EA)	8.00	0.00	8.00	0.00	0.00
1000/2	Corrosion	(EA)	8.00	0.00	8.00	0.00	0.00
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00
890/2	RC Wingwalls	(LF)	78.00	78.00	0.00	0.00	0.00
520/2	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
520/2	Conc Re Prot Sys	sq.ft	1.00	1.00	0.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	2.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	2.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	3.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	3.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	4.00	0.00	4.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	4.00	0.00	4.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	1.00	1.00	0.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	1.00	1.00	0.00	0.00	0.00

DELAWARE
DEPARTMENT OF TRANSPORTATION

JOINT MEASUREMENT SHEET

BRIDGE: 1-279E

Date:	5/11/16	5/10/18	5/4/20				
Inspectors:			RK/DS				
Location:	W. ABUT	W. ABUT	W. ABUT	WEST ABUT			
Temp (°F):	58	81	70	54°F			
Left Gap ("):	1.25	3/4"	1 1/8	N SHDR YELLOW LINE 1.00"			
Right Gap ("):	1.125	7/8"	7/8	S SHDR WHITE LINE 1.13"			
Comments:							
Location:	E. ABUT	E. ABUT	E. ABUT				
Temp (°F):	58	81	70	54°F			
Left Gap ("):	0.50	5/4"	5/8	N SHDR YELLOW LINE 0.88"			
Right Gap ("):	0.875	3/4"	5/8	S SHDR WHITE LINE 0.88"			
Comments:							
Location:							
Temp (°F):							
Left Gap ("):							
Right Gap ("):							
Comments:							
Location:							
Temp (°F):							
Left Gap ("):							
Right Gap ("):							
Comments:							
Location:							
Temp (°F):							
Left Gap ("):							
Right Gap ("):							
Comments:							

Note: Joints are measured at solid lines unless a comment states otherwise. Left and right is determined by looking from span 1 and towards increasing roadway stationing.

SCOUR RELATED DATA
Bridge No: 1279E003

Bridge ID: 1279E003	Inspection Date: 5/4/2020	Region: Urban
Waterway Name: CHRISTINA RIVER		Fathometer Req'd: No

WATERWAY INFORMATION

Tidal: Y	Underclearance: 21.3 ft	Depth of Flow: 4.6 ft
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STREAMBED CHARACTERISTICS

Streambed Mtrl Type: Silt/Clay	Streambed Mtrl Penetration: Loose 1"-3"
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ARMORING

Abutment: R-6(AVG = 12")	Piers: No Armoring
Upstream Channel: No Armoring	Wingwalls: R-6(AVG = 12")
Dwnstrm Channel: No Armoring	Channel Bottom: No Armoring

TYPE OF FOUNDATION & SUBSTRUCTURE ELEMENTS

Foundation Type: Piles > 20 ft		Fnd. Mtrl: Soil
Pier: Pier	Cap Shape: Round	Shape of Piles: Round

CHANNEL AND CHANNEL PROTECTION (NBI ITEM #61)

Waterway: F	Comments: FALLEN TREES NOT AFF
Streambed: F	Comments: ENTRENCHMENT SCOUR &
Embankment: F	Comments: BANK FAILURE UP AND
Fender System:	Comments: NA

CHANNEL INFORMATION

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

LOCAL SCOUR (OBSERVED) NBI ITEM #113

Piers: None	Abutment: None	Bents:
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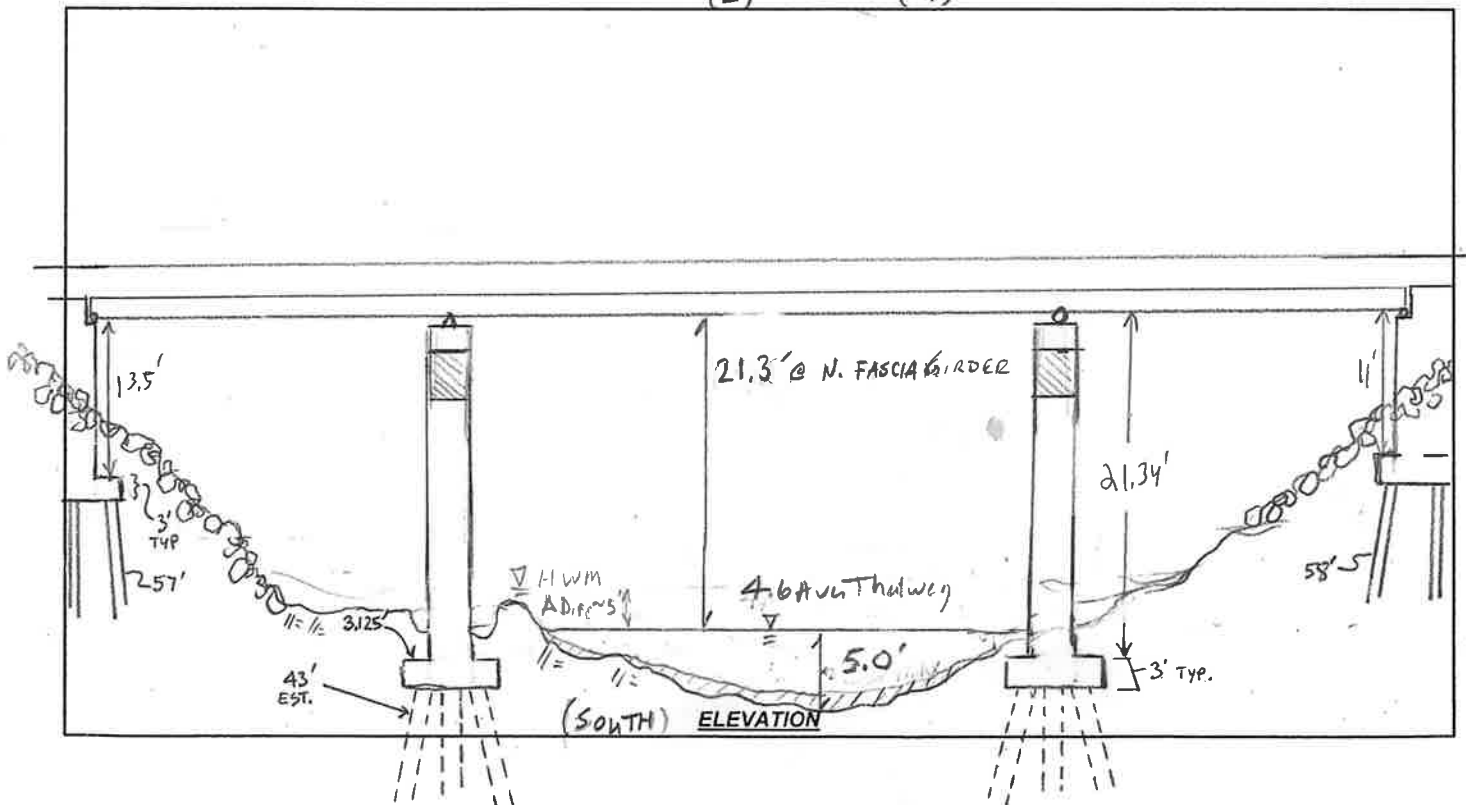
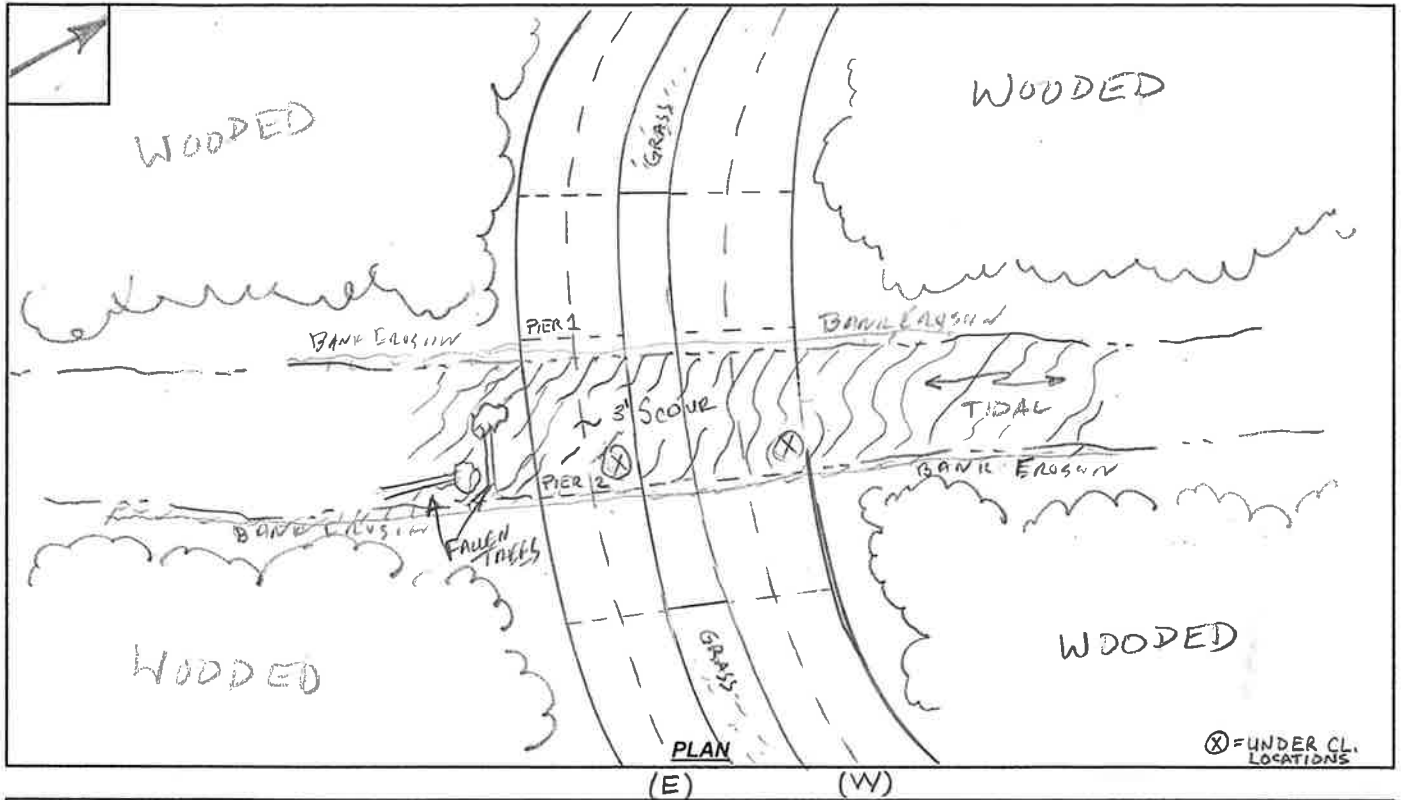
WATERWAY SKETCH SHEET

BR. ID.: 1 -279E-003

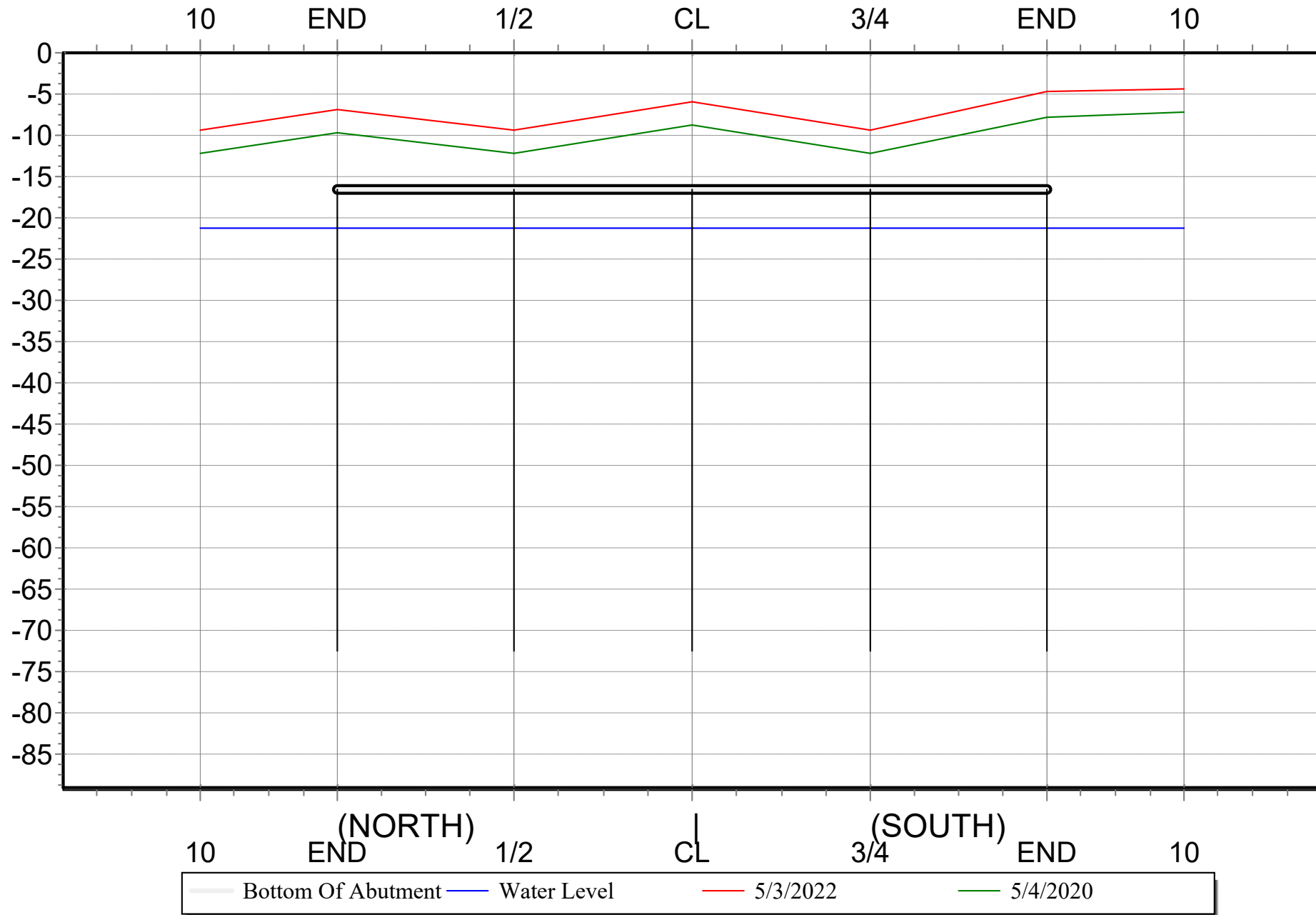
WATERWAY NAME: CHRISTINA RIVER

DATE: 5 103 12022

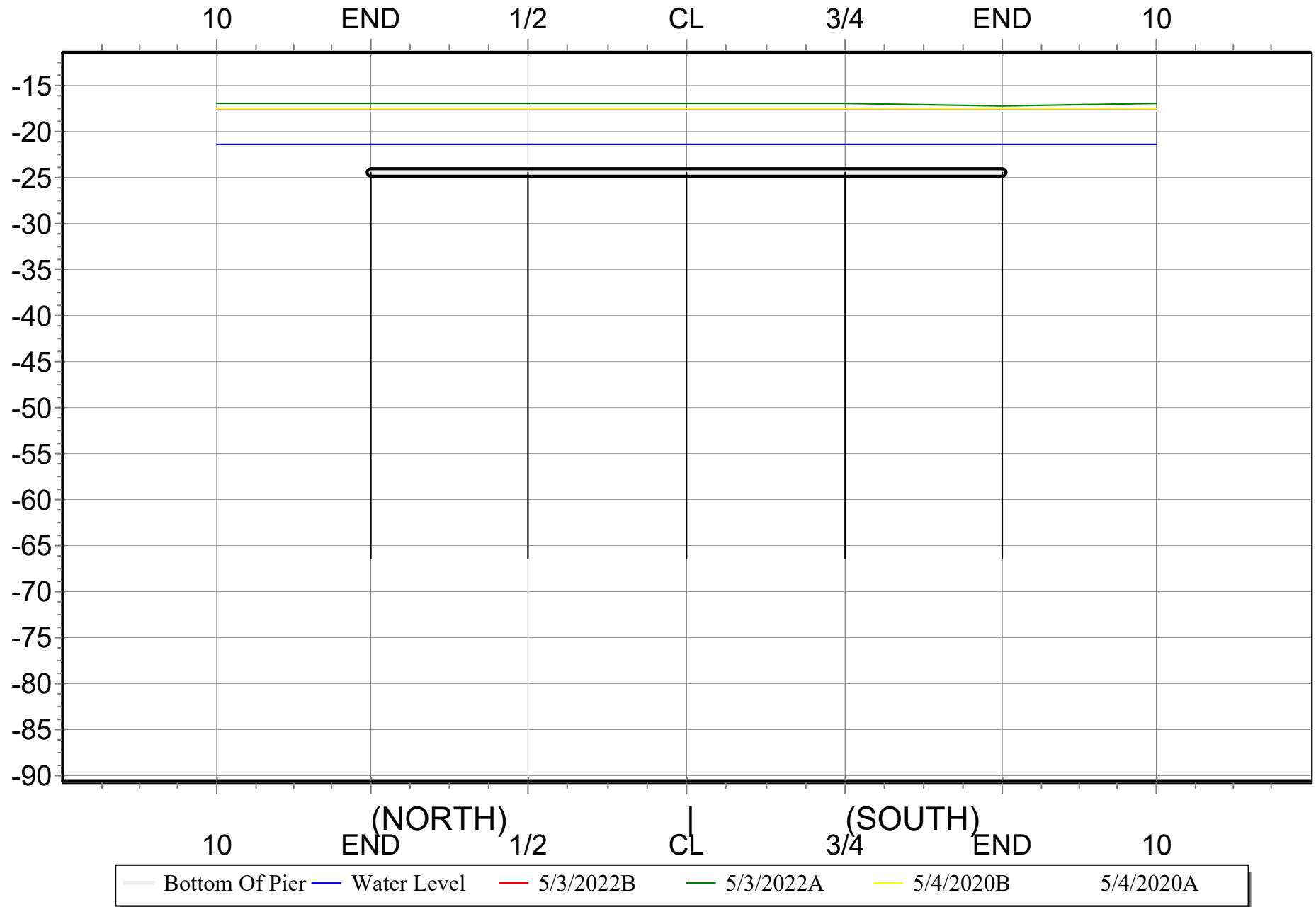
INSPECTED BY: DS SK 1 1



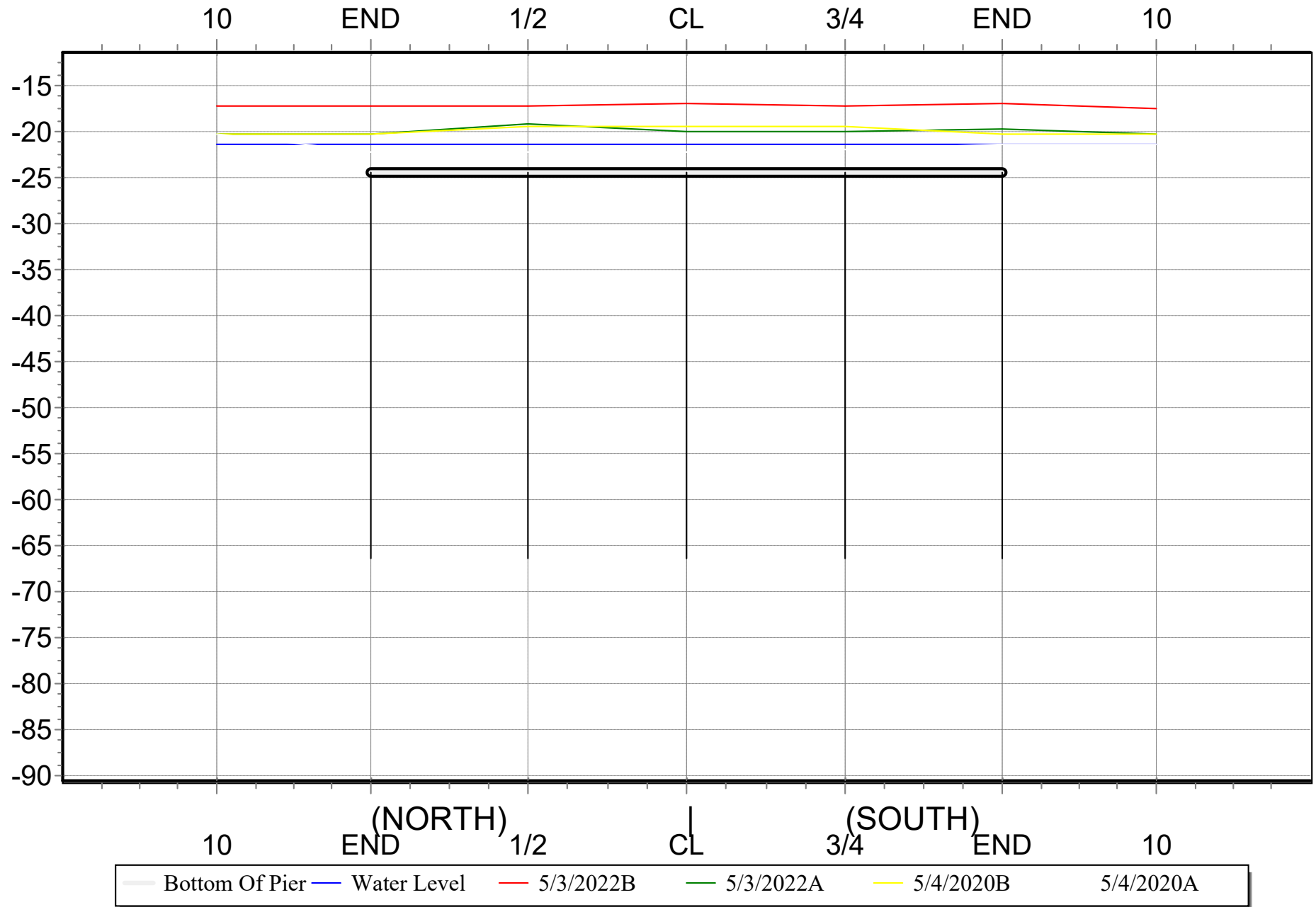
file Along Unit # 1 - WEST ABUTMENT For Bridge No.1279E



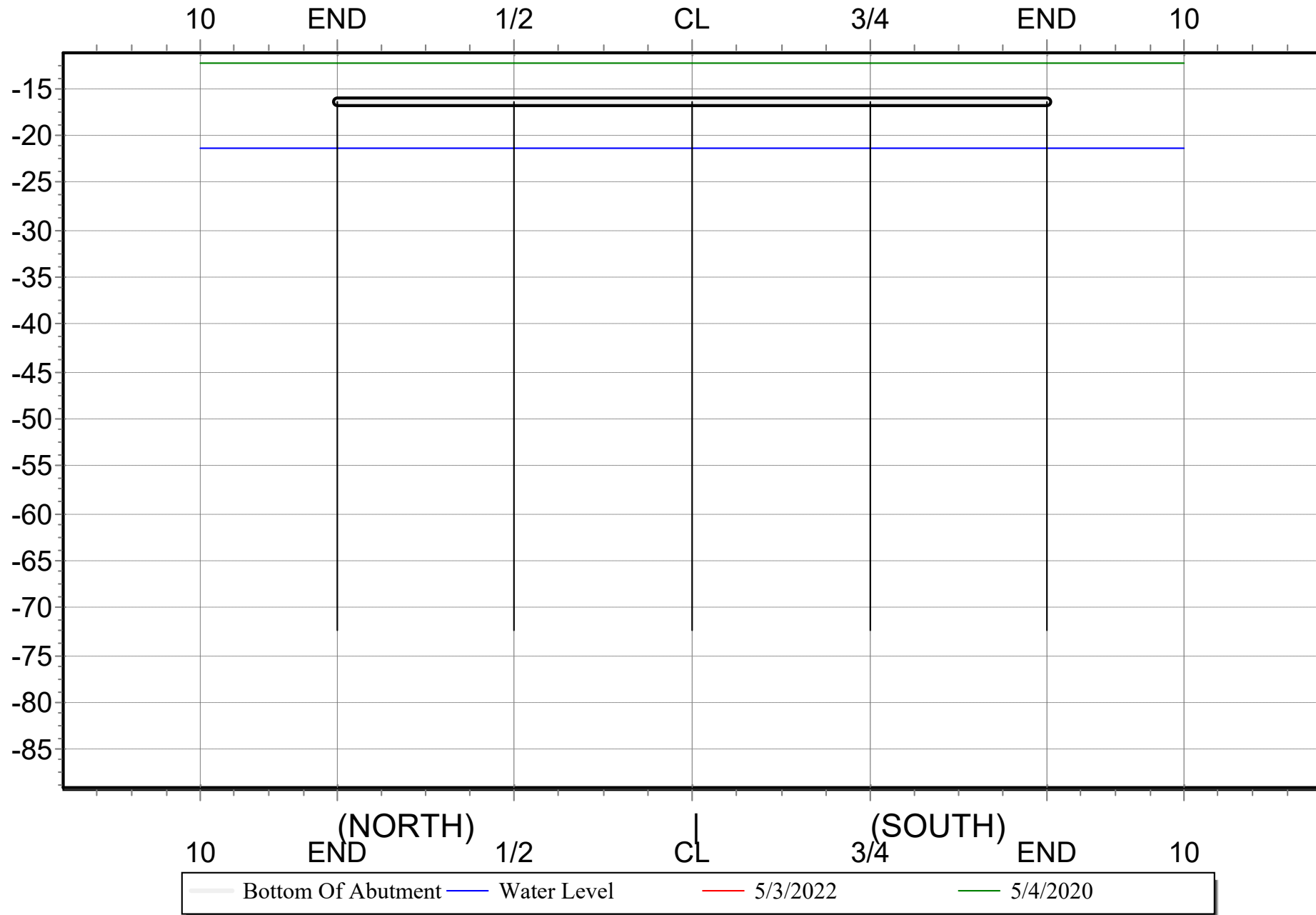
Profile Along Unit # 2 - PIER 1 For Bridge No.1279E003



Profile Along Unit # 3 - PIER 2 For Bridge No.1279E003

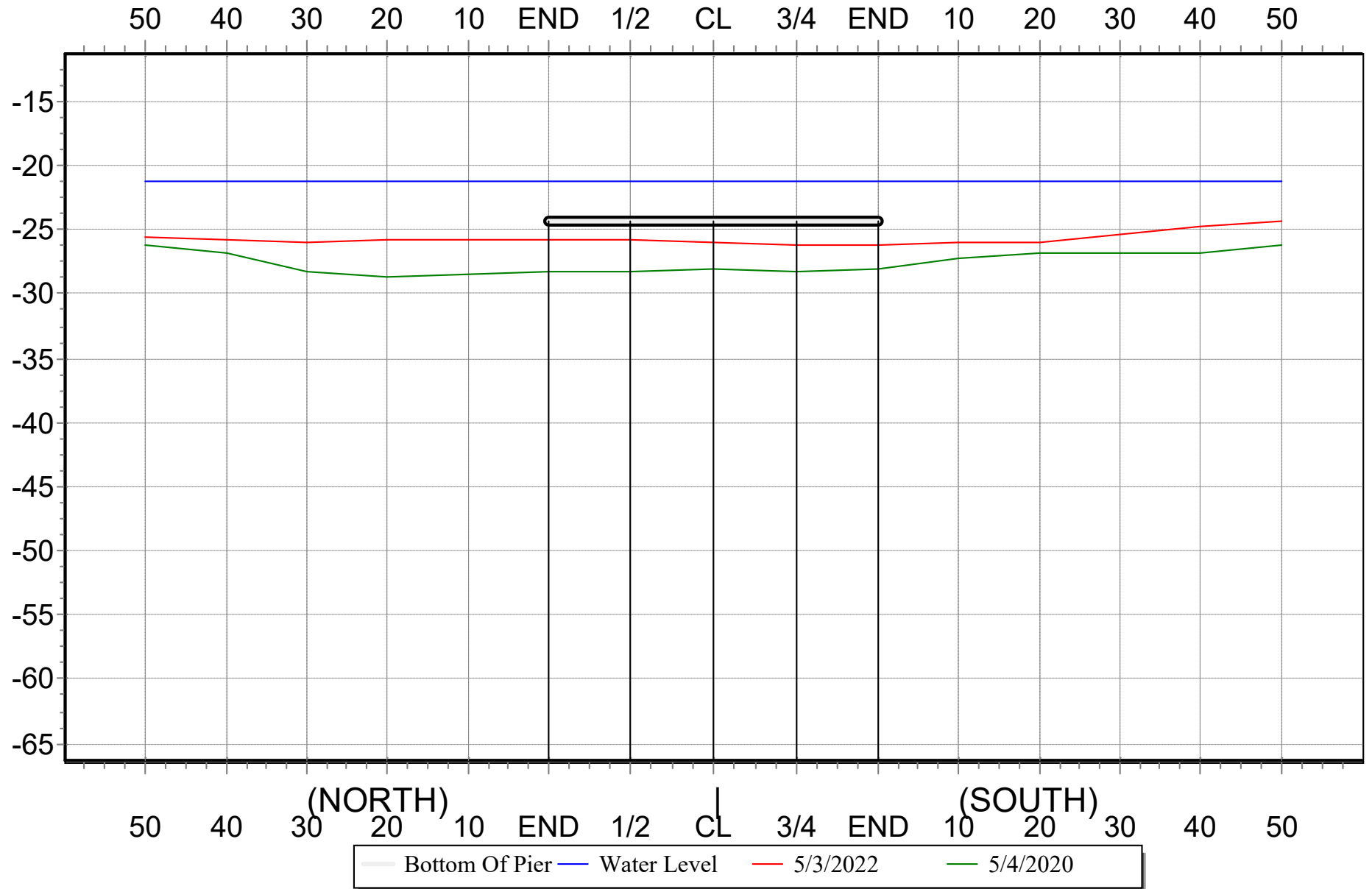


file Along Unit # 4 - EAST ABUTMENT For Bridge No.1279E



Thalweg Profile for 1279E003

Thalweg is in Span No. 2



DeIDOT Bridge Sounding Field Report Sheet

Bridge Number: 1-279E-003 Inspection Date: 05/03/2022 Inspected by: DS/SK

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)														
TIDAL 4.2	4.4	4.6	4.5	4.5	4.4	4.4	4.6	4.8	5.0	4.7	4.6	4.1	3.5	3.0
Spillway Location from "END" of Substructure Unit = <u>N. A. APPLICABLE</u> → $L = 23.2$														
Spillway height (underclearance measurement - distance from water surface to top of spillway) = <u>NA.</u>														

RELATIVE NORTH ←

TIDAL FLOW ←

Substructure Unit #4 = EAST ABUT

Substructure Unit #3 = EAST PIER 2

Substructure Unit #2 = W PIER 1

Substructure Unit #1 = W. ABUT

Handwritten calculation: $\frac{23.2}{5} = 4.64$

☐ = Refer to 'General Notes' about blue blank boxes

Data Measurements Input

(X) Underclearance (Note #1) = 21.3 Abutment width (Note #7) = 52

Bottom of Abutment Footer (Note #2) = 16.5 Thalweg is in span# = 2

Length of Abutment Piles (Note #3) = 56 Pier width (Note #8) = 20

Bottom of Pier Footer (Note #4) = 25.3 Number of Spans of Bridge = 3

Length of Pier Piles (Note #5) = 42

Abutment sheeting bottom (Note #6) = 499 Direction looking from Sub. Unit #1 to #4 = E

Datum (Note # E) SPAN 2 AT N. FACIA NEAR MIDSPAN.



1. WEST APPROACH ROADWAY LOOKING EAST



2. SOUTH ELEVATION LOOKING NORTHWEST



3. GENERAL VIEW OF SPAN 2, PIER 1 LOOKING WEST



4. TIDAL LOOKING SOUTH (BOOK)



5. TIDAL LOOKING NORTH FROM BRIDGE 1279W



6. CONCRETE DECK & ASPHALT COVERED EAST APPROACH SLAB LOOKING WEST



7. SPAN 1 N PAINT & WEATHR STEEL FACIA GIRDER 1 LAM CORROS AT W END LOOK S



8. SPAN 1 WEST PIERWALL EXPOSED PITTED BARS AND SPALL AT NORTH END LOOK S



9. SPAN 1 W ABUTMENT STEM RUST STAINED CRACK ~43 FT FROM SOUTH END LOOK W



10. SPAN 1 STRIP SEAL JOINT GLAND PERFORATION ~28 FT FROM SOUTH END LOOK UP



11. SPAN 1 STRIP SEAL JOINT IS LEAKING WATER & DEBRIS ON TOP OF W ABUT LOOK N



12. SPAN 1 STRIP SEAL HEADER RUST STAINED CRACK SOUTH SHOULDER LOOKING N



13. SPAN 1 STRIP SEAL HEADER SPALLS AT SOUTH SHOULDER & WHITE LINE LOOK N



14. SPAN 1 STRIP SEAL W ABUT JOINT HEADER ~3/4 INCH WIDE CRACK AT CL RD LOOK N



15. SPAN 1 S RC RAIL DELAM CURB PATCH ~22 FT FROM WEST END NORTH FACE LOOK S



16. SPAN 1 S RC RAIL DEEP GUARDRAIL ATTACHMENT HOLES & OPEN UTILITY COVER LOOK E



17. SPAN 2 N GIRDER SPLICE, CORROSION FLAKES & PACK RUST BETWEEN PLATES LOOK S



18. SPAN 2 PIER 2, N FACIA BEARING MISALIGN, TEPHLON PL SEPARATION & CORROS LOOK S



19. SPAN 3 E APPR SLAB LG ASPHALT WEARING SURFACE SPALLS & ~1/2 INCH CRACK LOOK S



20. SPAN 3 N RC RAIL ~127-128 FT FROM W END PITTED BAR & LG SPALL S FACE LOOK N

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
5769	01/07/2003	CANAL	23		038034	Bennett,Ronald W	CLOSE	BRIDGE WORK B007-S1H	0	11100.8	Bridge - B008-S1H - Repair/ Reseal Deck Joints	Feet	7.5	\$0.00
6359	01/15/2003	CANAL	10		075694	Finney,Donald A.	DENIED	Bridge on Christiana Road	0	11100.8	Bridge - B008-S1H - Repair/ Reseal Deck Joints	Feet		\$0.00
44954	05/03/2004	CANAL			042250	Machulski,David G	CAN	MOT on Rte.273	1	3199.2	Maintenance of Traffic - All other - Divided Hwy.	Each		\$0.00
65650	09/30/2004	CANAL	10		050609	Lightfoot,Charles R	CAN	Bridge maintenance on Rt.273 - Bridge #279E	0	11108.1	Movable Bridge Operations	Each		\$0.00
363500	05/04/2010	CANAL	22	Masten,Joseph G	144677	Haggerty,Sonya Marie Poirier	CLOSE	BR: 1-279E-003 / WORK: B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	75	\$1,219.95
494955	05/14/2012	CANAL	45	Miller,Glen A	040765	Barczak III,John Joseph	CAN	BR: 1-279E-003 / WORK: B007-S1H	3	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet		\$0.00
494959	05/14/2012	CANAL	45	Miller,Glen A	040765	Barczak III,John Joseph	CAN	BR: 1-279E-003 / WORK: B060-A1C	1	11106.0	Bridge - B060-A1C - Apply Protective Coating Deck/ Parapet/ Sidewalk	Sq Yd		\$0.00
629327	05/14/2014	CANAL	05	Moore,Ricky Lee	040765	Barczak III,John Joseph	CAN	BR: 1-179E-003 / WORK: B007-S1H	2	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet		\$0.00
914893	05/25/2018	CANAL	10	Moore,Jonathan T	164247	White,Lauren Marie	CLOSE	BR: 1-279E-003 / WORK: B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	0	\$0.00
914896	05/25/2018	CANAL	10	Moore,Jonathan T	164247	White,Lauren Marie	CLOSE	BR: 1-279E-003 / WORK: B007-S1H	3	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet	0	\$0.00
1061273	05/08/2020	CANAL	45	Sobota,Darren J	015475	Sobota,Darren J	CLOSE	BR: 1279E003 / B007-S1H:	1	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet	0	\$0.00
1061274	05/08/2020	CANAL	45	Sobota,Darren J	015475	Sobota,Darren J	CLOSE	BR: 1279E003 / B055-V1A:	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	0	\$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
1205263	05/06/2022	CANAL	45	Sobota,Darren J	015475	Sobota,Darren J	WAPPR	BR: 1279E003 / WORK: B007-S1H:	1	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet		\$0.00
1205264	05/06/2022	CANAL	45	Sobota,Darren J	015475	Sobota,Darren J	WAPPR	1279E003 / WORK: B022-S1D:	2	11102.2	Bridge - B022-S1D - Bituminous Deck Wearing Surface (Repair/ Replace)	Sq Yd		\$0.00