

HAYWOOD COUNTY

38-SR180-0274

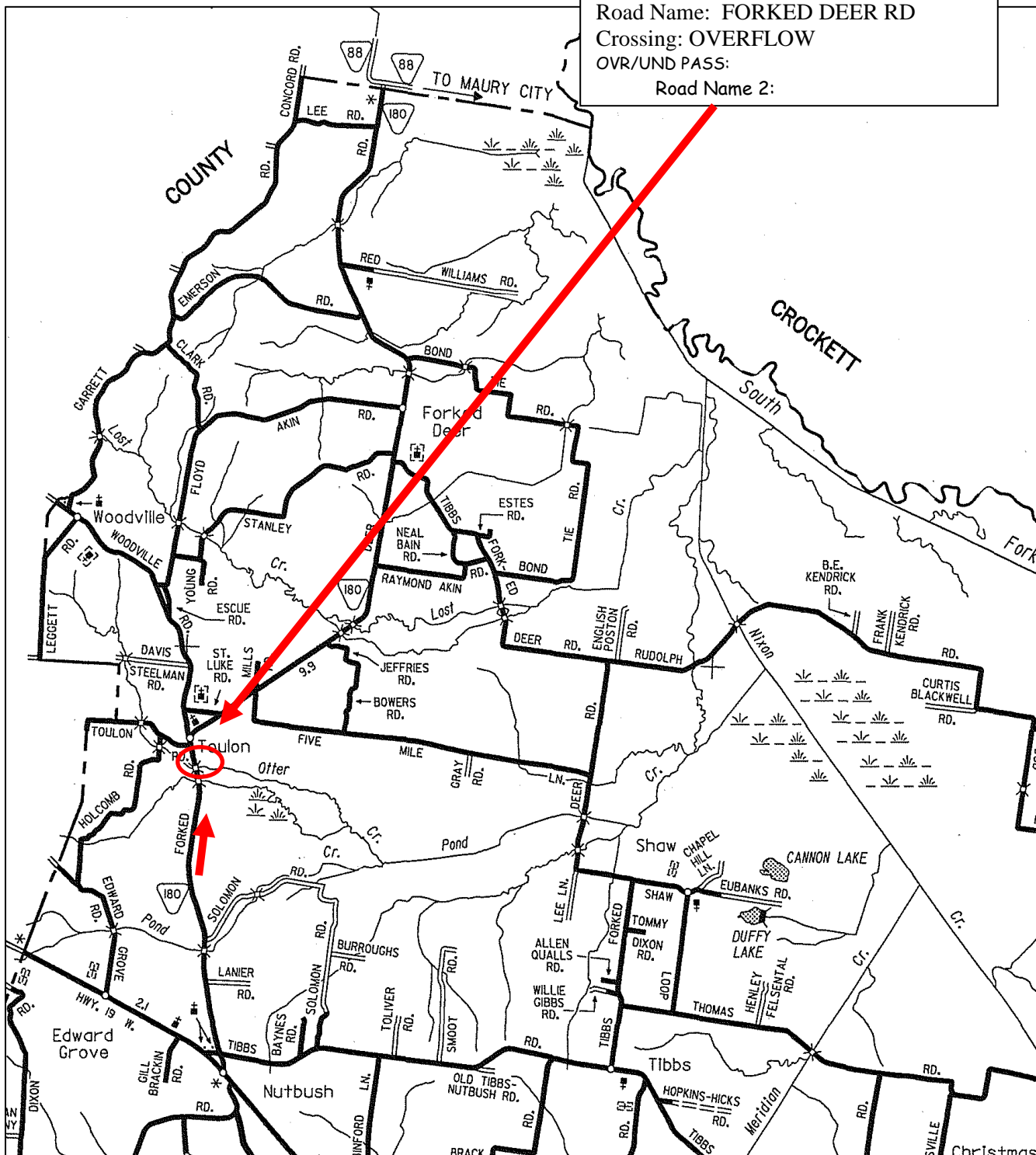
Federal ID: 38S80510005

Road Name: FORKED DEER RD

Crossing: OVERFLOW

OVR/UND PASS:

Road Name 2:



BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: HAYWOOD

LOCATION: 38-SR180-02.74-

CO. SEQ.: 1

SPEC. CASE: 0

CROSSING: OVERFLOW

FED. BRIDGE NO.: 38S80510005

MAINT. DIST.: 38

REPAIR LIST NO.: 2

DATE ADDED: 10/11/2016

REVISED: 08/18/2021

FACILITY CARRIED:	FAS 180	NUMBER OF MAIN SPANS:	4
HIGHWAY SYSTEM:	05-STP RURAL, STATE	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	23 FT 11 IN	BRIDGE LENGTH (FT):	76
BRIDGE WIDTH (OUT TO OUT):	24 FT 11 IN	MAXIMUM SPAN LENGTH (FT):	19
APPROACH ROADWAY (W/SHOULDERS):	23 FT 11 IN	SKEW ANGLE (DEGREES):	60
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	CONCRETE		
MAIN SPAN DESIGN TYPE:	CHANNEL BEAM		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	08/18/2021	GENERAL CONDITION:	POOR
EVALUATION DATE:	10/11/2019	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	19 TONS	SUFFICIENCY RATING:	67.8

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	REPLACE MISSING WEIGHT POSTING SIGN AT APPROACH NO. 2		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR OR REPLACE PRECAST CONCRETE CHANNEL SLAB "F" IN SPAN NO.3
REPAIR OR REPLACE PRECAST CONCRETE CHANNEL SLAB "F, G" IN SPAN NO.1
INSTALL SCOUR PROTECTION AT BENT NO.2
PROPERLY SPLICE PILE "D" AT BENT NO.3
REPAIR OR REPLACE PILE "A" AT BENT NO.1
REPAIR EMBANKMENT EROSION ON RIGHT SIDE OF APPROACH NO.1
APPROACH GUARDRAILS ARE NON-EXISTENT
BRIDGERAILS ARE SUBSTANDARD
REPAIR BRIDGERAIL ON RIGHT SIDE OF SPAN NO.1

GENERAL COMMENTS:

ADDED TO REPAIR LIST 2 PER REQUEST



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 08/19/2021

Bridge Number:

(Includes Item 5A)

Feature Intersected:

Evaluation Status:

County:

Route:

Special Case:

County Sequence:

Log Mile:

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	<input type="text" value="08/18/2021"/>	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<input type="text" value="06/19/2023"/>	
		<input type="text" value="/ /"/>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. <input type="text" value="99"/> IN.	N NOT APPLICABLE
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. <input type="text" value="99"/> IN.	9 EXCELLENT CONDITION
36	TRAFFIC SAFETY FEATURES		8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	0 N N N 55	7 GOOD CONDITION - SOME MINOR PROBLEMS.
41	STRC OPEN/CLOSED/POSTED	P	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	A K P		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
58	DECK	5	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	4	3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
60	SUBSTRUCTURE	4	2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
61	CHANL/CHANL PROTECTION	6	1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
62	CULVERT AND RETAIN WALL	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
71	WATERWAY ADEQUACY	6	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	<input type="text" value="POOR"/>	
16	LATITUDE	17 LONGITUDE	
	N 35° 44.0750'	W 89° 24.8700'	
	<input type="text" value=""/>	<input type="text" value=""/>	
	<input type="text" value="/ /"/>		
	TEAM LEADER SIGNATURE		REVIEW DATE

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



BRIDGE NUMBER



APPROACH # 1

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



APPROACH # 1 RIGHT RAIL COLLISION DAMAGE



LOOKING AHEAD ON ROUTE

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



APPROACH # 1 WEIGHT LIMIT SIGN 40 TON



RIGHT SIDE

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



VIEW ACROSS TOP OF DECK



LEFT SIDE

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



APPROACH # 1 LEFT EMBANKMENT



APPROACH # 2 LEFT EMBANKMENT

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



APPROACH # 2



APPROACH # 2 RIGHT EMBANKMENT

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



LOOKING BACK ON ROUTE



ABUTMENT # 2

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



REAR SIDE BENT # 2



FRONT SIDE BENT # 3

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



BOTTOM DECK



REAR SIDE BENT # 1

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



WASH BENT # 2 PILE "D" UNDER CASING



LEFT ELEVATION

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



ABUTMENT # 1



SPAN # 1 SLAB "G"

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



SPAN # 1 SLAB "F"



RIGHT ELEVATION

Bridge Loc. No: 38-SR180-02.74 Date: 8-18-21



BENT # 1 PILE "A"



SPAN # 3 SLAB "F"

Bridge Loc. No: 38-SR180-02.74

Date: 8-18-21



BENT # 3 PILE "D" GRADER BLADE

AUG 18 2021

BRIDGE INSPECTION REPORT

Form BIR 3.0
(Rev. 9-22-98)
DT-0069

Field Report No.: 26 Date: 8/18/21
Previous Report No.: 25 Date: 9-17-19
Co. Seq 01 Plans: YES () NO ()

Bridge No. 38S80510005 Bridge Location No. 38 - SR180 - 0274
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

FORKED DEER ROAD OVERFLOW CITY
Road Name Feature Intersected

Year Constructed 1960 County Haywood Maint. Dist: 48 Maint.Resp: 02
Year Widened _____ Year Rehabilitated _____

Structure Name (If Named)

FEATURES

Wearing Surface Concrete () Timber () Asphalt ☒ Depth _____ (in.)
Flared Width Yes () No ☒ Median Width Open () None ☒ Closed ()
Navigational Control Yes () No ☒ Bridge Skew 60L ° LT () RT ()
Structure Type (Main Span) P. C. C. S.
Structure Type (Appr.Spans) _____
No. Main Spans 4 No. Approach Spans _____
Maximum Span Length 19.0 (**. ft.)
Total Length 76.0 (**. ft.)

INSPECTORS

1. Kee (TV)
2. S. Hayes
3. A. Hayes
4. cox
5. _____
6. _____
7. _____
8. _____

WIDTHS (ft.)

Deck Out-to-Out 25.0
Roadway Curb/Curb 24.0
Roadway Rail/Rail _____
Sidewalk Rt. _____ Lt. _____
*Approach Roadway 18.0
*(Does Not Include Shoulders)
Approach Shoulder Rt. 3.0
Lt. 3.0

CLEARANCES

Min. Vertical Clearance over Deck _____ (ft.-in.)
Min. Vertical Under Clearance _____ (ft.-in.)
Min. Lateral Under Clearance Rt. _____ (**. ft.)
Min. Lateral Under Clearance Lt. _____ (**. ft.)

FRACTURE CRITICAL: _____
(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) _____ (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: _____ Date _____

DOT FIELD TEAM () CONTRACT DIVERS () NONE REQUIRED ☒

Change in Structural Condition: Yes () No ☒ Major Repairs Made: Yes () No ☒

COMMENTS:

LATITUDE: N35 ° 44.0750 '

LONGITUDE: W89 ° 24.8700 '

G.P.S. Location

BRIDGE RATING: () () ☒ ()
GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: Jacob Jee

AUG 18 2021

Form BIR 3.1
(Rev. 9-22-98)
DT-0080

Bridge Location No. 38 - SR180 - 2.74 -
Co. Route Log Mile

Date _____

PERFORMANCE EVALUATION

Time of Day Inspected 9:30 a.m. Weather Conditions 77° F cloudy, rains
Vehicles Observed All types

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	
Superstructure			
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	

APPROACH

	Rating	Comments
Alignment	G F P C	
Slab	G F P C	
Joints	G F P C	
Pavement	G F P C	
Embankment	G F P C	<u>A₂₉ #1 Lt (004)</u>
Drains	G F P C	

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	G F P C	() (X)	<u>San #1 Rt (066)</u>
Transitions	G F P C	() ()	<u>✓A</u>
Guardrail	G F P C	() ()	<u>↓</u>
Guardrail Terminal	G F P C	() ()	<u>↓</u>

SIGNING

	YES	NO	NEEDED	Weight Limit Posted (023) ①
Paddleboards	(X)	()	()	YES (X) NO ()
Vertical Clearance (<14'-6")	()	(X)	()	Gross..... Tons
NARROW ()	()	(X)	()	2 Axle..... 40 Tons
ONE LANE BRIDGE ()	()	(X)	()	3 or more Axles.. 40 Tons
Other Signs or Plaques:	<u>None</u>			
Comments Regarding any Problems with Signing:	<u>A₂₉ #2 mt. limit sign is missing</u>			

AUG 18 2021

Form BIR 3.2
(Rev. 9-22-98)
DT-0081

Bridge Location No. 38 - SR180 - 2.74 -
Co. Route Log Mile

Date _____

DECK

	Rating	Comments
Wearing Surface	G <u>(F)</u> P C	_____
Deck - Structural Condition	G F P C	_____
Curbs	G <u>(F)</u> P C	_____
Median	G F P C	_____
Sidewalks	G F P C	_____
Parapet	G F P C	_____
Railing	G F <u>(P)</u> C	Span #1 Rt (066)
Paint	G F P C	_____
Drains	<u>(G)</u> F P C	_____
Lighting Standards	G F P C	_____
Utilities	G F P C	_____
Joint Leakage	G F P C	_____
Expansion Joints	G F P C	_____

SUPERSTRUCTURE

Bearing Devices	G F P C	_____
Beams	G F P C	_____
Girders	G F P C	_____
P C C S	G F <u>(P)</u> C	Span #1 "F" & "G", Span #3 "F" (241)
BOLTS (PCCS)	G <u>(F)</u> P C	_____
Floor Beams	G F P C	_____
Stringers	G F P C	_____
Diaphragms	G F P C	_____
Bracing	G F P C	_____
Trusses - General	G F P C	_____
Portals	G F P C	_____
Bracing	G F P C	_____
Paint	G F P C	_____
Alignment of Members	<u>(G)</u> F P C	_____

TEXTURE COAT

Condition Rating	G F P C	<u>X</u>	Fading	G F P C	<u>X</u>
Overall Appearance	G F P C		Needs Spot Painting	YES () NO ()	
Staining Rating	G F P C		Needs Repainting	YES () NO ()	

Comments _____ Scaling Rating G F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()

_____ CLEAN DRAINS ()

AUG 18 2021

Form BIR 3.3

(Rev. 9-22-98)

DT-0082

Bridge Location No. 38 - SR180 - 2.74 -

Co. Route Log Mile

Date

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G (F) P C			
Breastwall	G F P C			
Wings	G F P C			
Backwall	G F P C			
Plumb	(G) F P C			
Footing	G F P C			
Piles	G F P C			
Embankment	(G) F P C			
Bearing	G F P C			
Slope Paving	G F P C			
Rip Rap	G (F) P C			
Earthquake Devices	G F P C			

PIERS

	Rating	Comments	PILE(S)	PIER
Caps	G F P C			
Columns	G F P C			
Plumb	G F P C			
Footings	G F P C			
Piles	G F P C			
Bearing	G F P C			
Web	G F P C			
Earthquake Devices	G F P C			

BENTS

	Rating	Comments	PILE(S)	BENT
Caps	G (F) P C			
Columns	(G) F P C			
Plumb	(G) F P C			
Footings	G F (P) C	Bent #2 "D" (125)		
Embankment	G F (P) C	Bent #1 "A" (141)		
Piles	G F (P) C	Bent #3 "N" (131)		
Bearing	G F (P) C			
Bracing	(G) F P C			
Earthquake Devices	G F P C			

Piles Need Replacement:

NO () YES (X) (141)

CUT VEGETATION

NO (X) YES ()

CLEAR DRIFT

NO (X) YES ()

RECOMMENDATIONS:

AUG 18 2021

Form BIR.3.8

(Rev. 9-22-98)

DT-1508

Bridge Location No. 38 - SR180 - 0274 -
Co. Route Log Mile

Date _____

STREAM CHANNEL DATA AND CONDITIONS

Stream Crossing: OVERFLOW

- I. 1. Type of bed material? sand/silt/clay
2. Has channel shifted? YES () NO (X) NOT APPARENT ()
3. Condition of rip-rap? G F P C Est. % failed _____ % N/A ()
4. Overall condition of channel? G F P C
5. Item 61 - Code values 0 thru 9 according to the recording
and coding guide currently in effect: 6
6. Underwater diver inspection recommended? YES () NO (X)
If yes, why? _____

- II. Channel and bank stability conditions: (check if applicable)
1. Steep bank conditions: - Failures upstream () Failures downstream ()
2. Moderate bank erosion (X)
3. Bank vegetation: a. low growth (X) b. large timber (X) c. clear banks ()
d. dead trees upstream () e. dead trees downstream (X)
4. Sediment or gravel accumulation: YES () NO (X) UNKNOWN ()
5. Channel altered or straightened: YES () NO (X) UNKNOWN ()
6. Stable conditions: a. live growth (X) b. bedrock ()
c. boulders () d. flat slopes ($\leq 2:1$) ()

III. Waterway adequacy and debris characteristics: (check if applicable)

1. Bridge deck elevations:
a. level with approach roadway. (X)
b. higher than approach roadway. ()
c. roadway approach ≥ 2 ft. above natural ground line. . (X)
2. Abutment encroaches into channel. ()
3. Large scour (blowhole) under bridge. ()
4. Indications that flood waters overtop bridge:
NO (X) YES () OCASSIONALLY () FREQUENTLY () UNKNOWN ()
5. Debris characteristics:
a. debris/drift present YES () NO (X)
b. debris/drift likely to accumulate YES (X) NO ()
c. dead trees upstream () dead trees downstream (X)

IV. Comments: Old timber piles in channel

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

- I. Does this bridge need a special inspection? YES () NO (X)
II. Reason for special inspection: _____

Inspection Team's Summary

Bridge Location No. 38 - SR180 - 02.74

Inspection Date 8/18/21

Bridge Rating Poor

This is a four span PCCS bridge with timber substructure, metal bridge rails, and four paddleboards. This bridge is posted at Approach #1 only at 40/40 Tons. Approach #2 weight limit sign is missing. The asphalt approaches have settlement up to 1/2" and cracks up to 1/8". Approach #1 left embankment is washing behind wingwall. The asphalt wearing surface has cracks up to 1/16". Span #1 right bridge rail has heavy collision damage. Span #1 PCCS 'F' and 'G' have heavy spall to steel. Slab 'F' on span #3 has heavy cracking. The timber substructure has light to medium weathering and decay. Bent #1 pile 'A' has heavy decay. Bent #3 pile 'D' splice connection is broken. Bent #2 pile 'D' embankment is washing below concrete casing. Scour is fair

Jacob Kee

INSPECTOR

CROSS SECTION: YES (X) NO () BRM: YES (X) NO ()

No change

AUG 18 2021

GROUND ELEVATIONS

FEDERAL NUMBER ----- 38S80510005

BRIDGE NO. ----- 38 - SR 180 - 2.74

DATE : 5/19/2008

CROSSING ----- OVER FLOW

M/C 8/18/21

NUMBER OF PIERS ----- 3

LOCATION OF PIERS ----- 19 38 57

BENCH MARK ELEV. ----- 100 (103.9)

INSPECTORS

BENCH MARK LOC. ---- TOP CAP LT A.1

ALLEN'S CREW

WATER ELEVATION -----

DISTANCE OF 0.00 = TOP OF BANK APPROACH 1 SIDE

DISTANCE AND ELEVATIONS ARE IN STANDARD MEASUREMENT

UPSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

5/19/2008	
Distance from B.M.	Elevation
0	101.6
1	98.8
10	93.1
20	88.1
26	87.7
31	88.1
38	91.6
50	96.1
57	95.4
75	99.6
76	101.4

AUG 18 2021

BRIDGE NO. -----

38 - SR 180 - 2.74

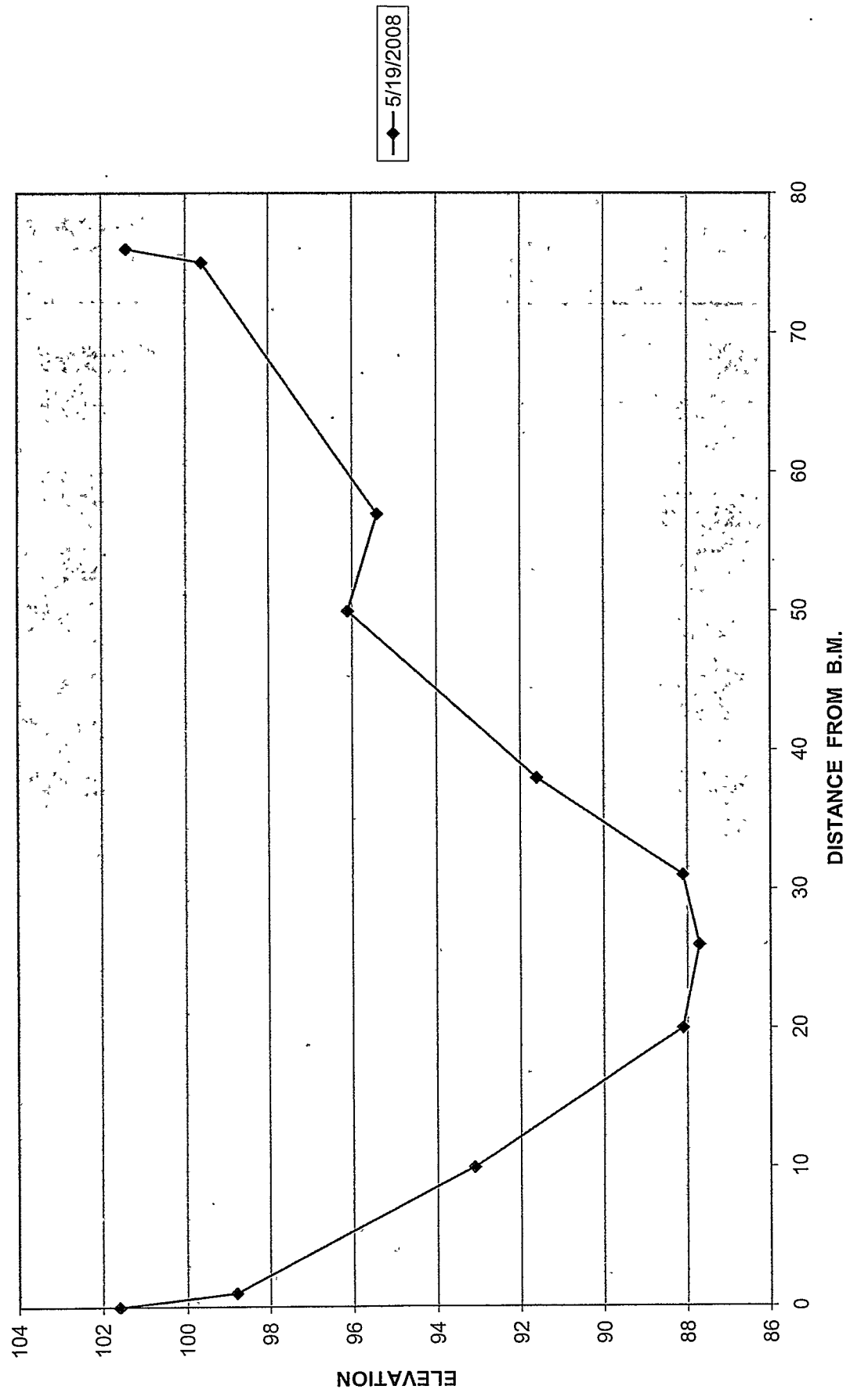
DATE :

5/19/2008

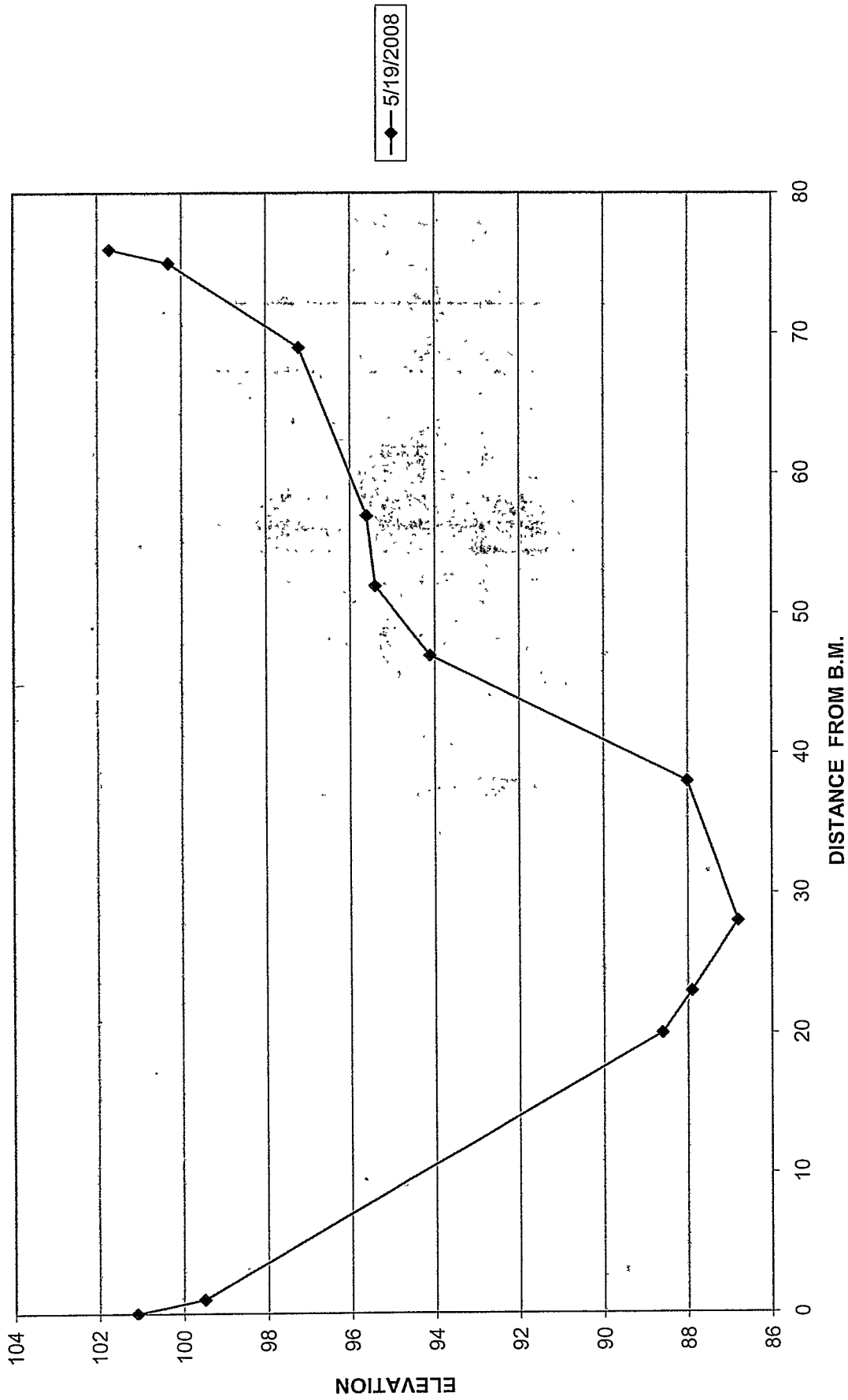
DOWNSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

5/19/2008	
Distance from B.M.	Elevation
0	101.1
1	99.5
20	88.6
23	87.9
28	86.8
38	88
47	94.1
52	95.4
57	95.6
69	97.2
75	100.3
76	101.7

38S80510005 UPSTREAM DRIPLINE



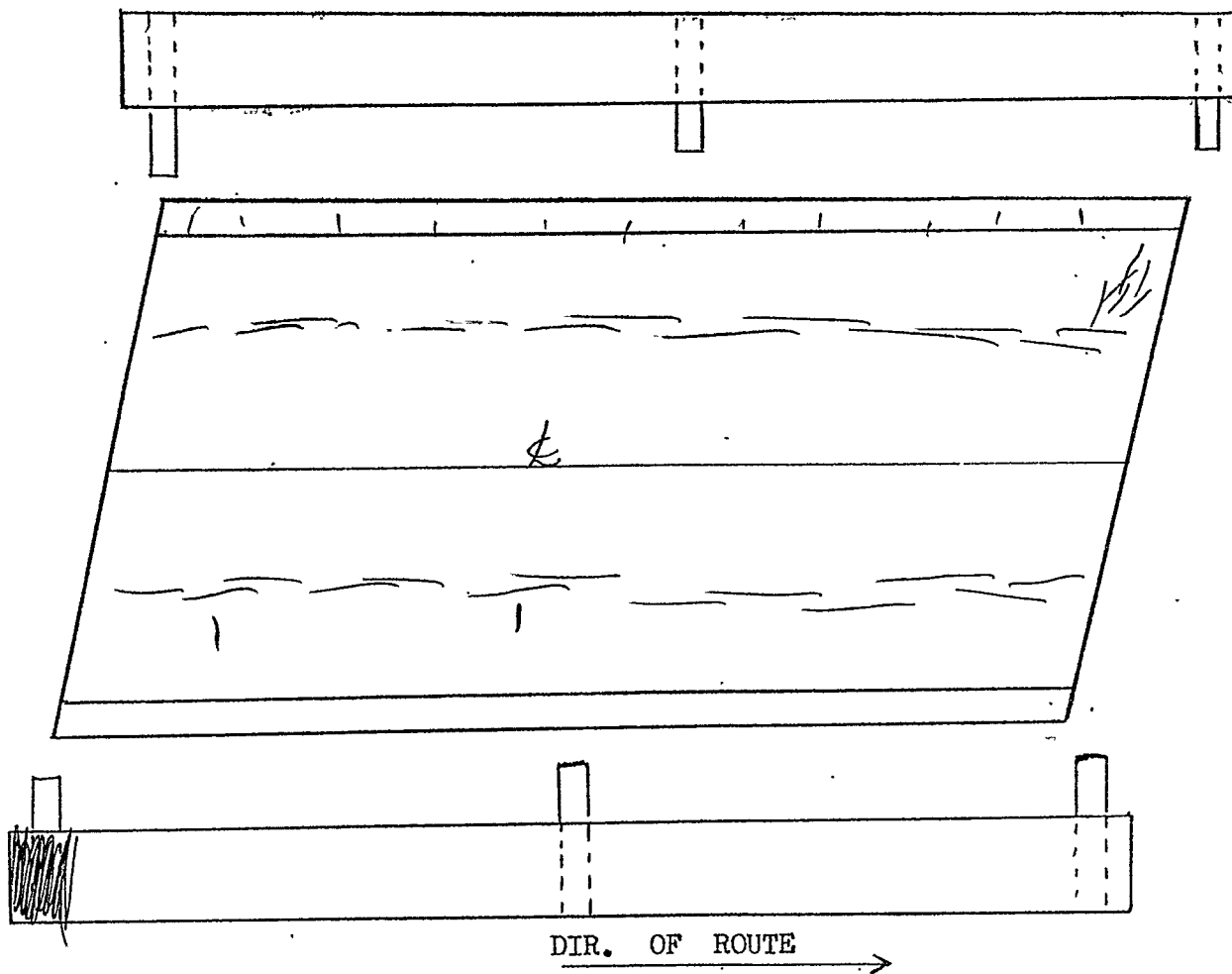
38S80510005 DOWNSTREAM DRIPLINE



AUG 18 2021

BRIDGE NO. 38 180 274

SKEW 60 SPAN NO. 1



DIR. OF ROUTE →

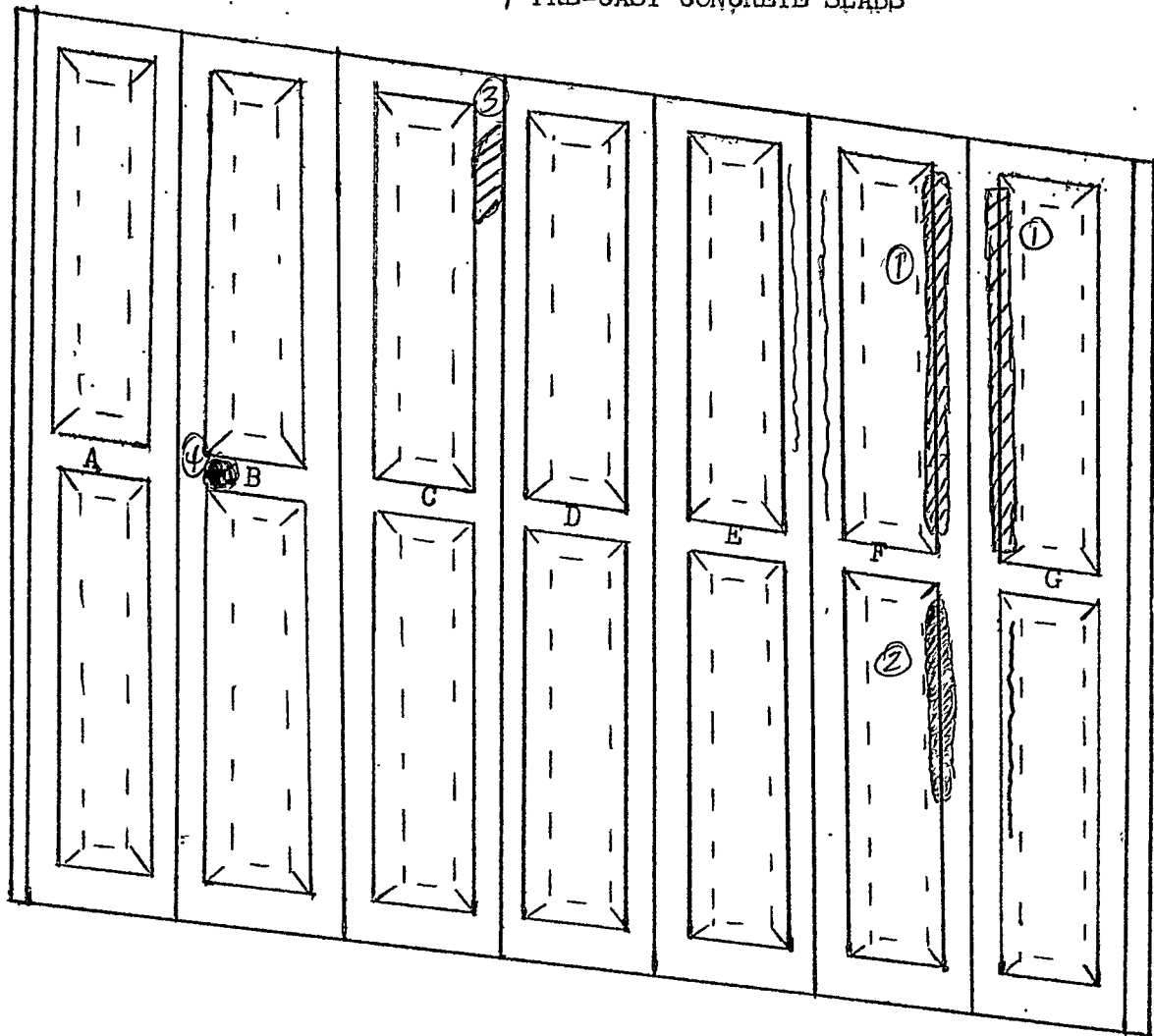
ELEMENT	RATING	COMMENTS
TOP DECK	G (F) P C	up to 1/16" cracks
CURB	G (F) P C	Hair like cracks
RAIL&POST	G (F) (P) C	Heavy collision damage, surface rust
PAINT	G F P C	
DRAINS	(G) F P C	
EXP. JOINT	G F P C	

BRIDGE NO. 38 280 274

SKEW 60 ° L.T.

AUG 18 2021
SPAN NO. 1

7 PRE-CAST CONCRETE SLABS



DIRECTION OF ROUTE

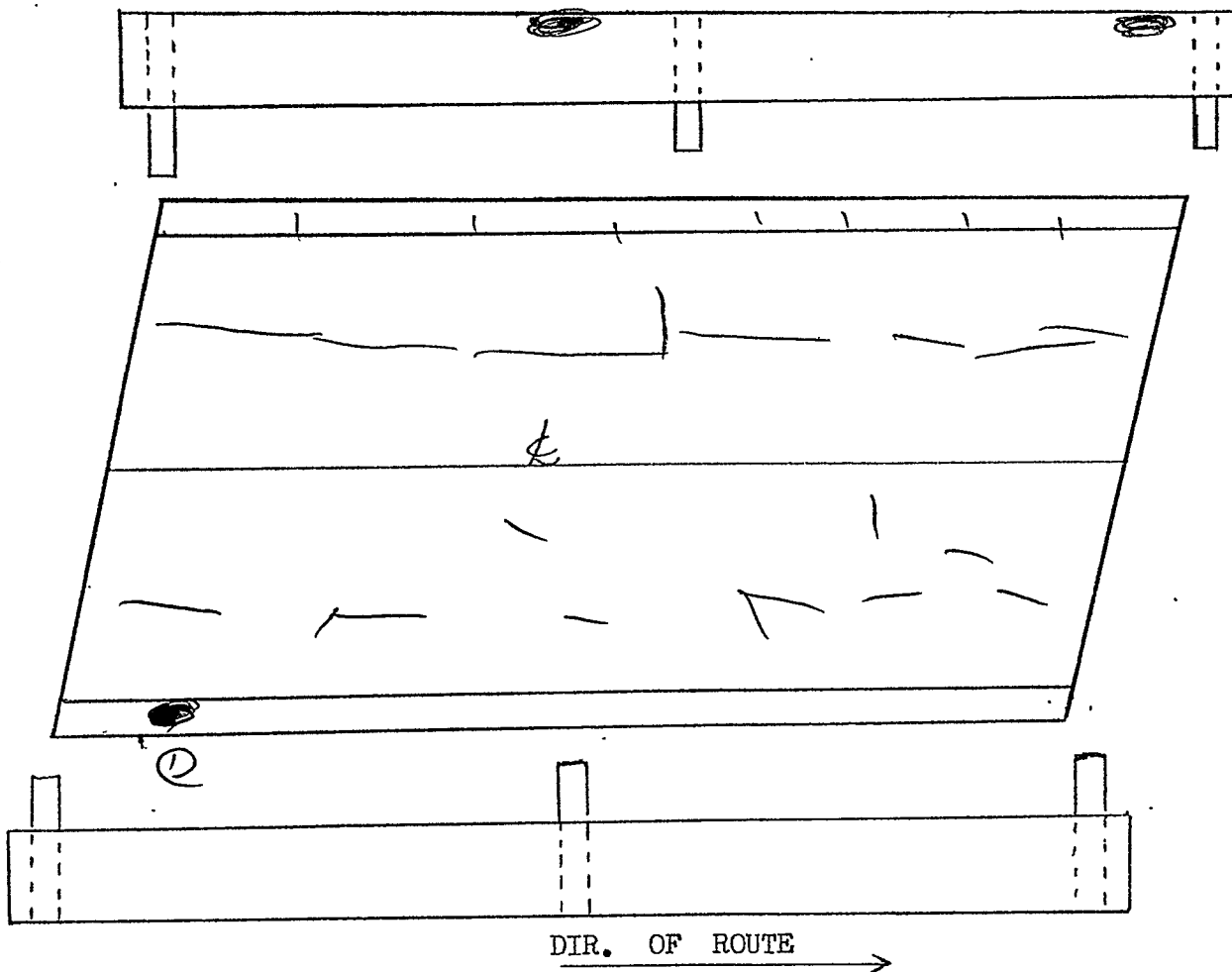
ELEMENT	RATING				COMMENT
SLAB	A	(G)	F	P C	
	B	G	(F)	P C	See ④
	C	G	(F)	P C	See ③
	D	(G)	F	P C	
	E	G	(F)	P C	1/16" cracks
	F	G	F	(P) C	See 1, 2
	G	G	F	(P) C	See 1
BOLTS		(G)	F	P C	

- ① 9'Lx6"Hx2"D
Spall to Steel
- ② 6'Lx5"Hx?D
- Impending Spall
- ③ 3'Lx8"Wx2"D
Spall to Steel
- ④ 2' in dia x 1"D
Spalling

AUG 18 2021

BRIDGE NO. 38 180 274

SKEW 60 SPAN NO. 2



ELEMENT	RATING	COMMENTS
TOP DECK	G (F) P C	up to 1/16" cracks
CURB	G (F) P C	Hairline cracks, see ①
RAIL&POST	G (F) P C	Minor collision damage, surface rust.
PAINT	G F P C	
DRAINS	(G) F P C	
EXP. JOINT	G F P C	

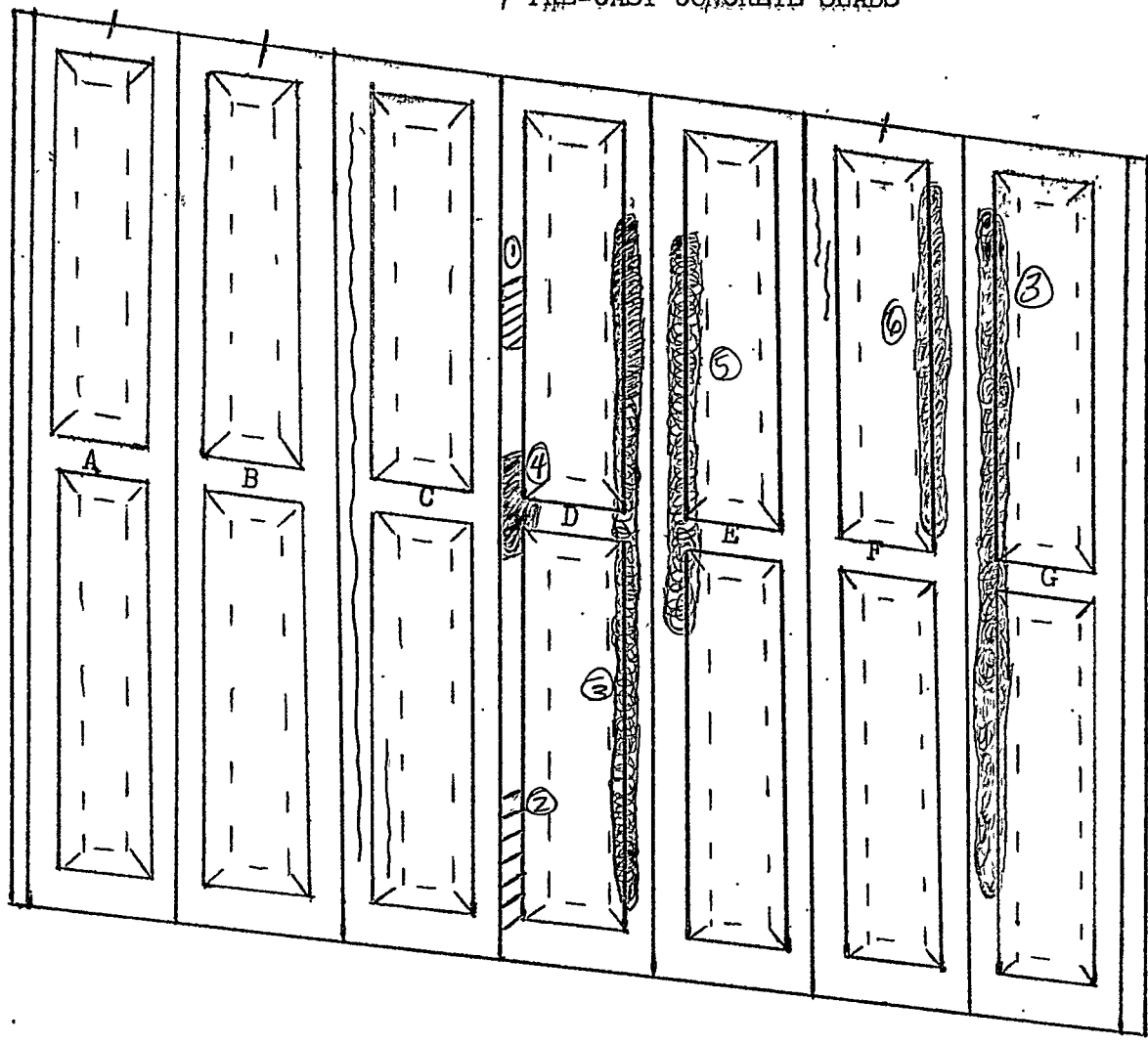
① Spall to steel
1' x 6" w x 1/2" d

BRIDGE NO. 38 180 2074

SKEW 60 ° LT.

ASBAM 180. 2021

7 PRE-CAST CONCRETE SLABS



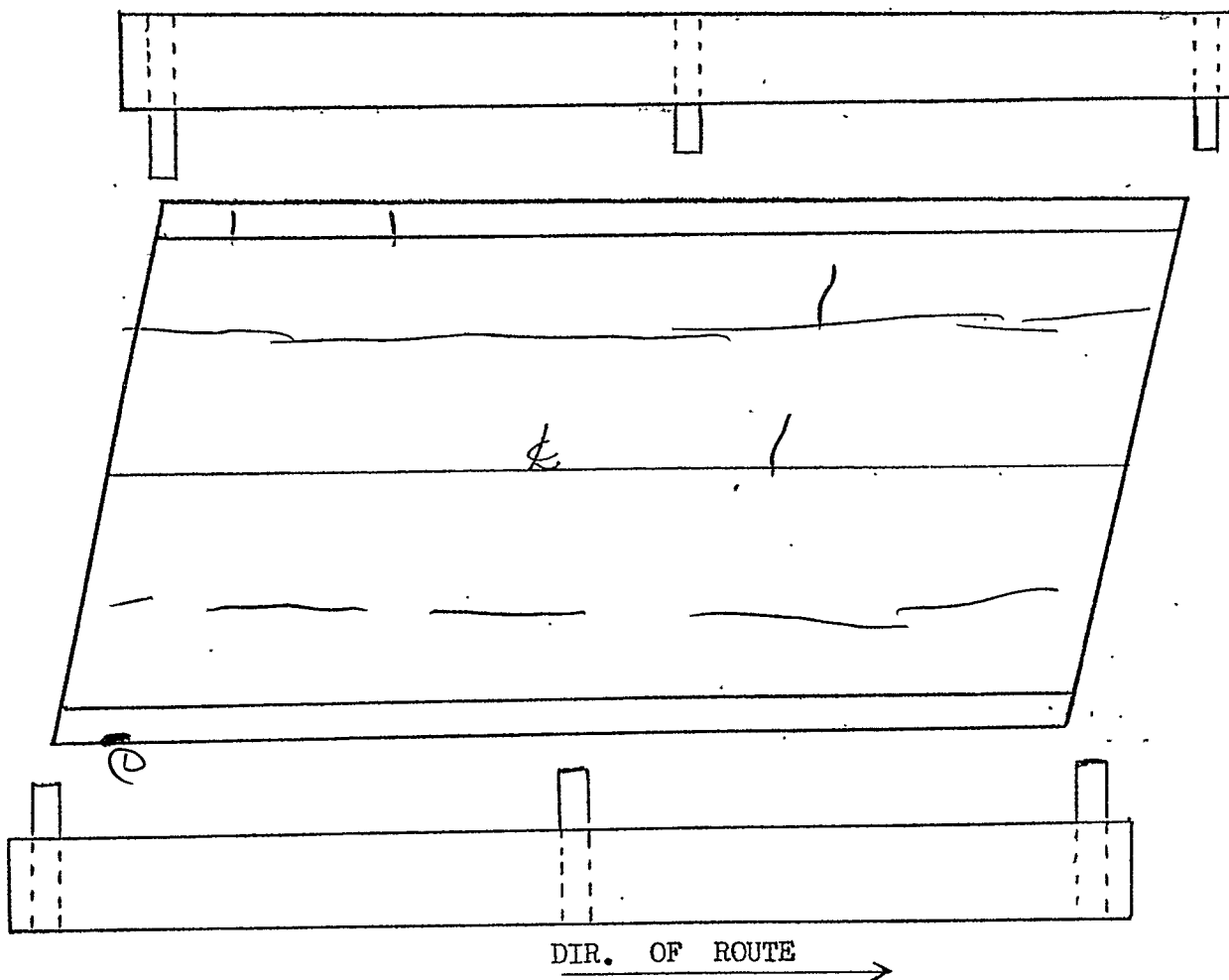
ELEMENT	RATING				COMMENT
SLAB	A	(G)	F	P C	
	B	(G)	F	P C	
	C	G	(F)	P C	1/16" crack
	D	G	(F)	P C	see 1, 2, 3, 4
	E	G	(F)	P C	see 5
	F	G	(F)	P C	see 6, fine crack
	G	G	(F)	P C	see 3
BOLTS	G	(F)	P C		MISSING 3

- ① 2' L x 8" W x 2" D
Spall to Steel
- ② 3 1/2' L x 4" H x 2" D
Spall to Steel
- ③ 19' L x 6" W x 4" H x ? D
Impending Spall
- ④ 4' L x 7" W x 4" H x ? D
Impending Spall
- ⑤ 8' L x 6" W x 3" H x ? D
Impending Spall
- ⑥ 9' L x 4" W x 4" H x ? D
Impending Spall

AUG 18 2021

BRIDGE NO. 38 180 274

SKEW 60 SPAN NO. 3



ELEMENT	RATING	COMMENTS
TOP DECK	G <u>F</u> P C	up to 1/16" cracks
CURB	G <u>F</u> P C	thin line cracks, see ①
RAIL&POST	G <u>F</u> P C	surface rust
PAINT	G F P C	
DRAINS	<u>G</u> F P C	
EXP. JOINT	G F P C	

① Spalling 6" L x 4" W x 1/2" D

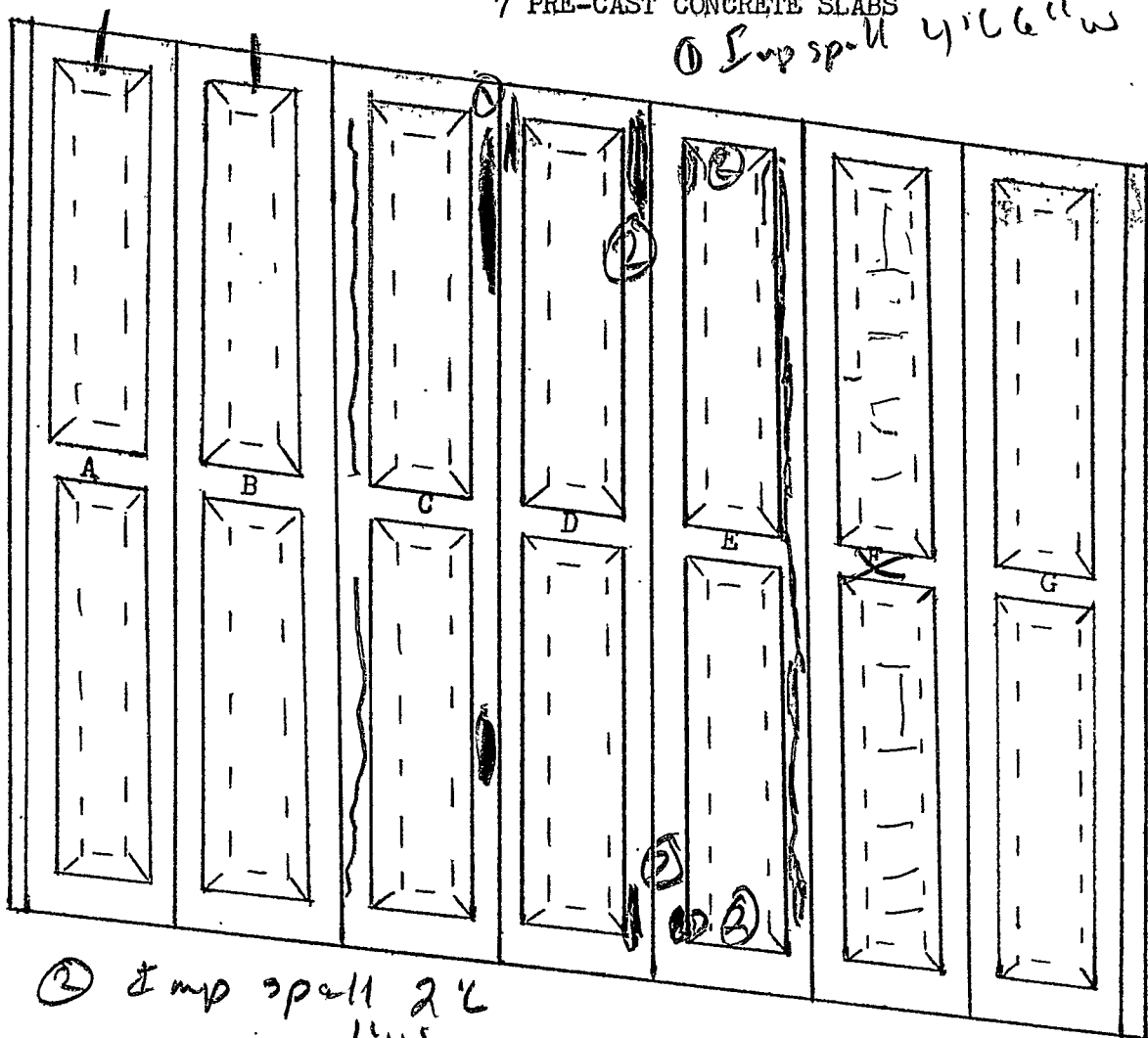
BRIDGE NO. 38 280 274

SKEW 60° LT.

AUGSPAN NO. 2021 3

7 PRE-CAST CONCRETE SLABS

① Imp spill 4' L 6" W



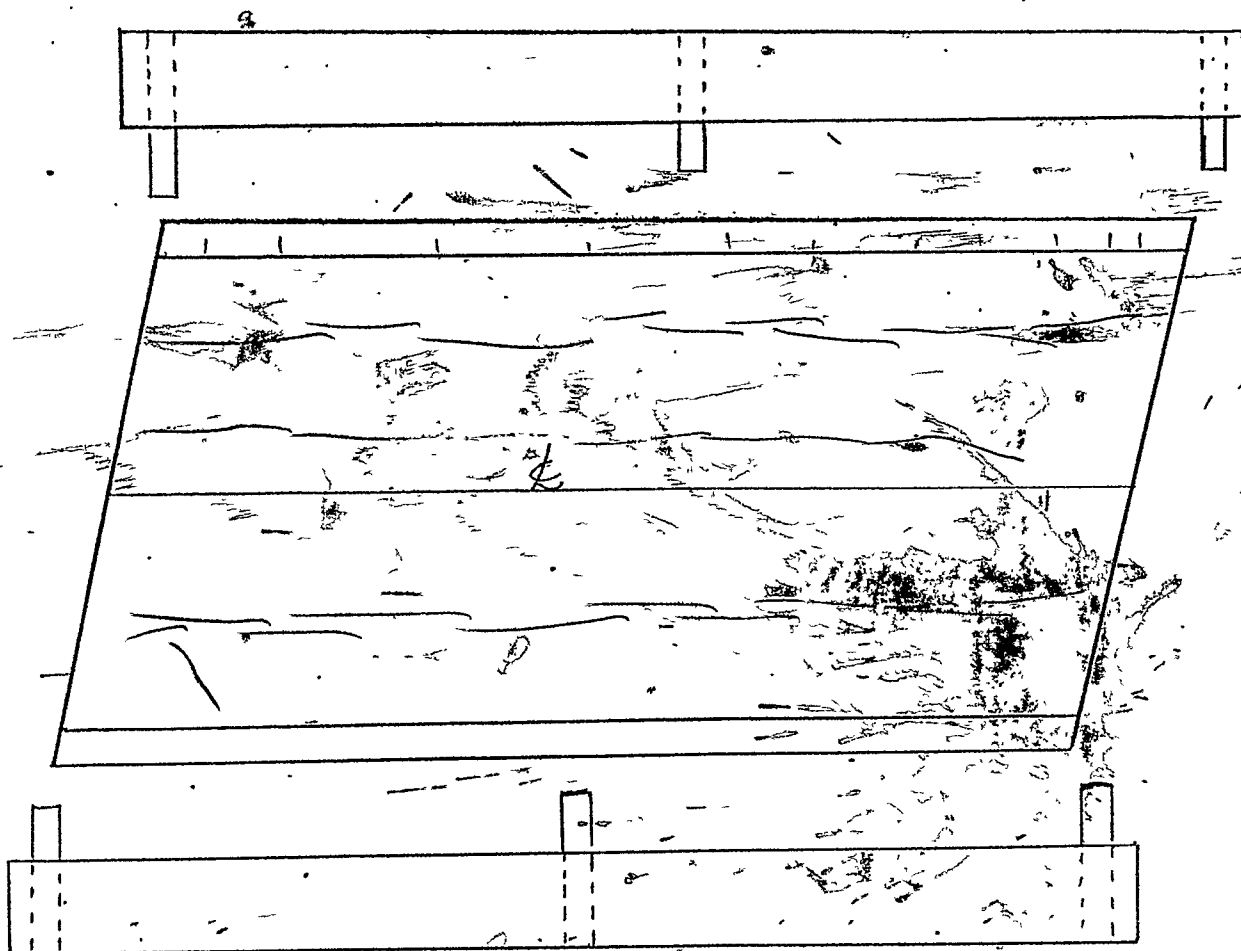
② Imp spill 2' L 1' W

ELEMENT	RATING	COMMENT
SLAB	A <u>G</u> F P C	
	B <u>G</u> F P C	
	C <u>G</u> <u>F</u> P C	① Spill tested 2.5' L 6" W 1" deep 1/16" crack
	D <u>G</u> <u>F</u> P C	Imp spill 3' L 6" W ②
	E <u>G</u> <u>F</u> P C	Imp spill 18' L 6" W
	F <u>G</u> <u>F</u> <u>P</u> C	Fine cracks with eff in valley
	G <u>G</u> F P C	
BOLTS	G <u>F</u> P C	2 missing

AUG 18 2021

BRIDGE NO. 38 180 274

SKEW 60 SPAN NO. 4



DIR. OF ROUTE

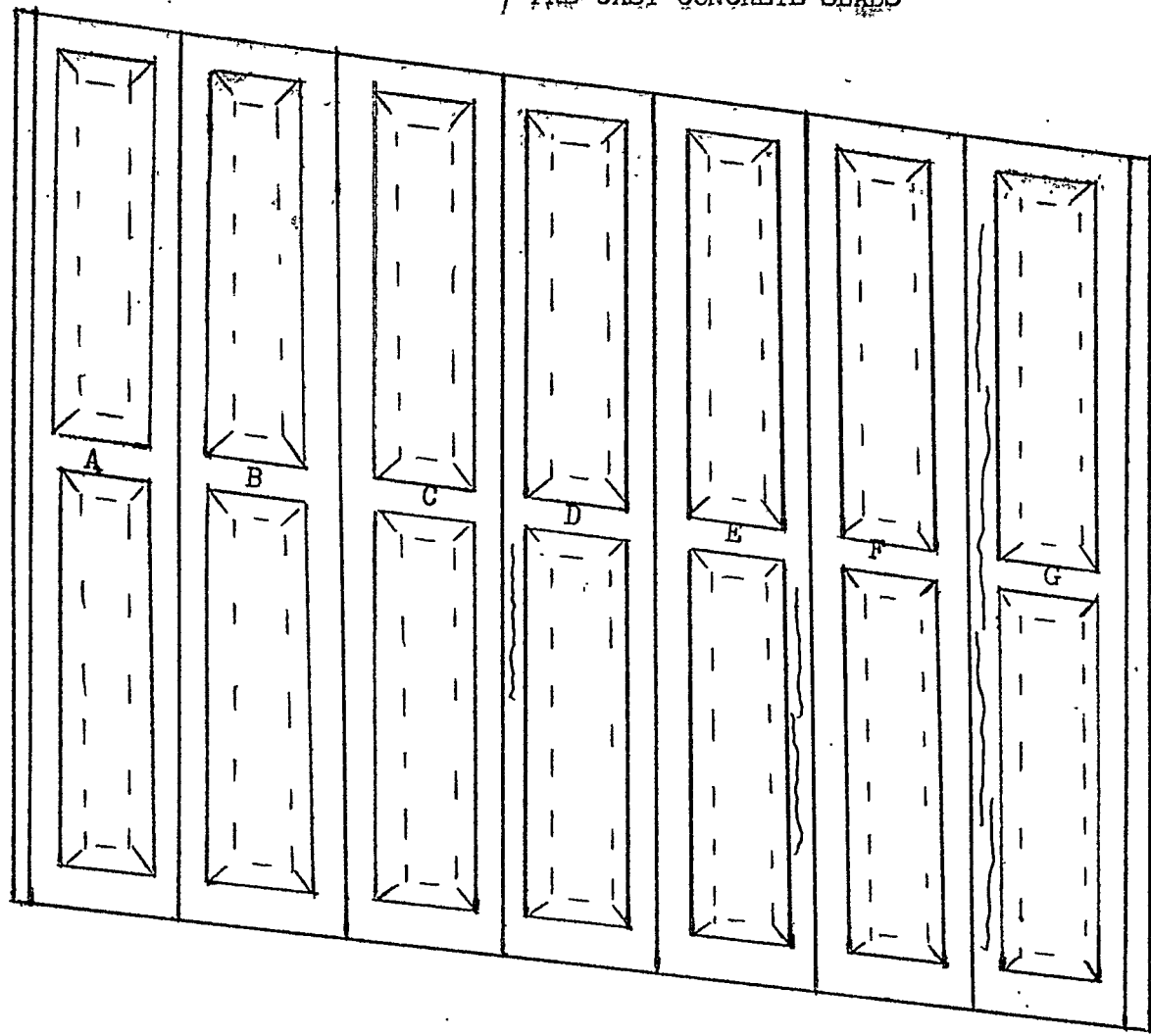
ELEMENT	RATING	COMMENTS
TOP DECK	G <u>F</u> P C	up to 1/16" cracks
CURB	G <u>F</u> P C	hairline cracks
RAIL&POST	G <u>F</u> P C	surface rust
PAINT	G F P C	
DRAINS	<u>G</u> F P C	
EXP. JOINT	G F P C	

BRIDGE NO. 38 180 2.74

SKEW 60° LT.

AUG 18 2021
SPAN NO. 4

7 PRE-CAST CONCRETE SLABS



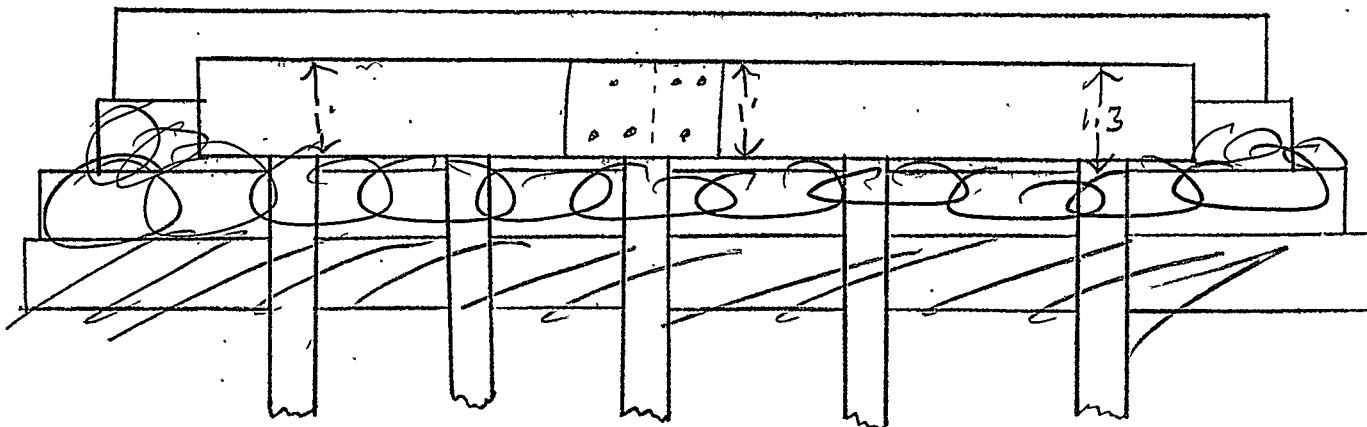
ELEMENT		RATING				COMMENT
SLAB	A	(G)	F	P	C	
	B	(G)	F	P	C	
	C	(G)	F	P	C	
	D	G	(F)	P	C	fine cracks
	E	G	(F)	P	C	1/16" cracks
	F	(G)	F	P	C	
	G	G	(F)	P	C	1/16" cracks
BOLTS		(G)	F	P	C	

COMMENTS: _____

AUG 18 2021

BR. NO. 38 180 2.74

ABUT. NO. 1



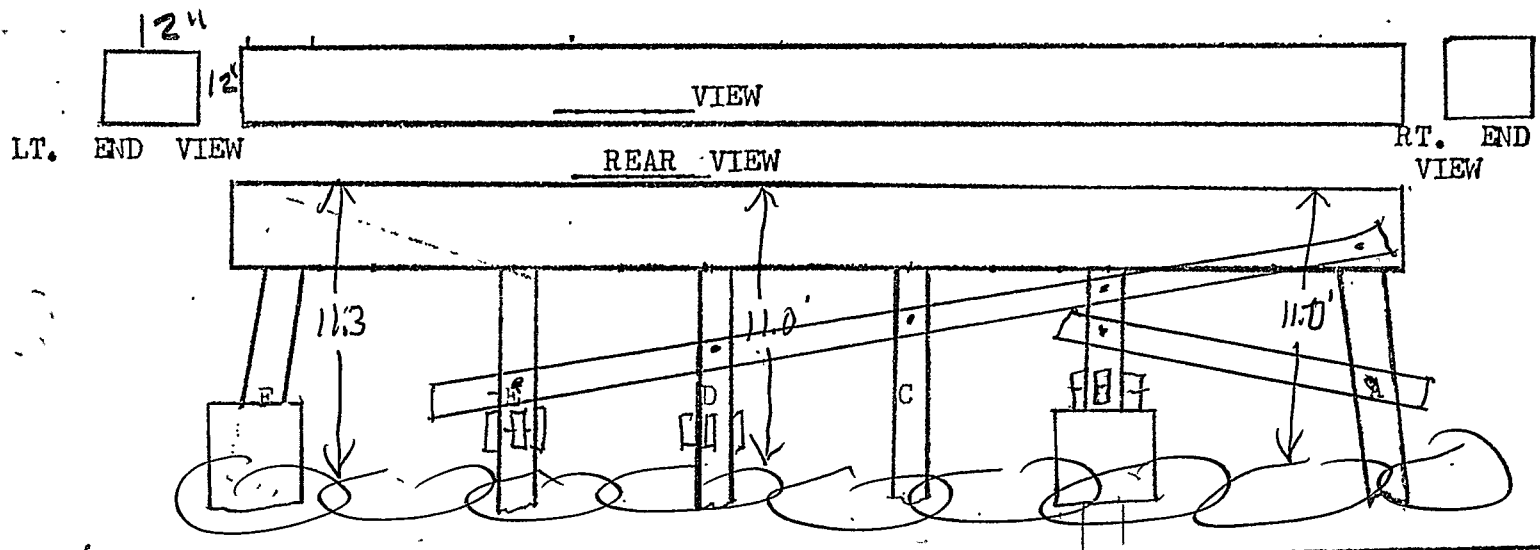
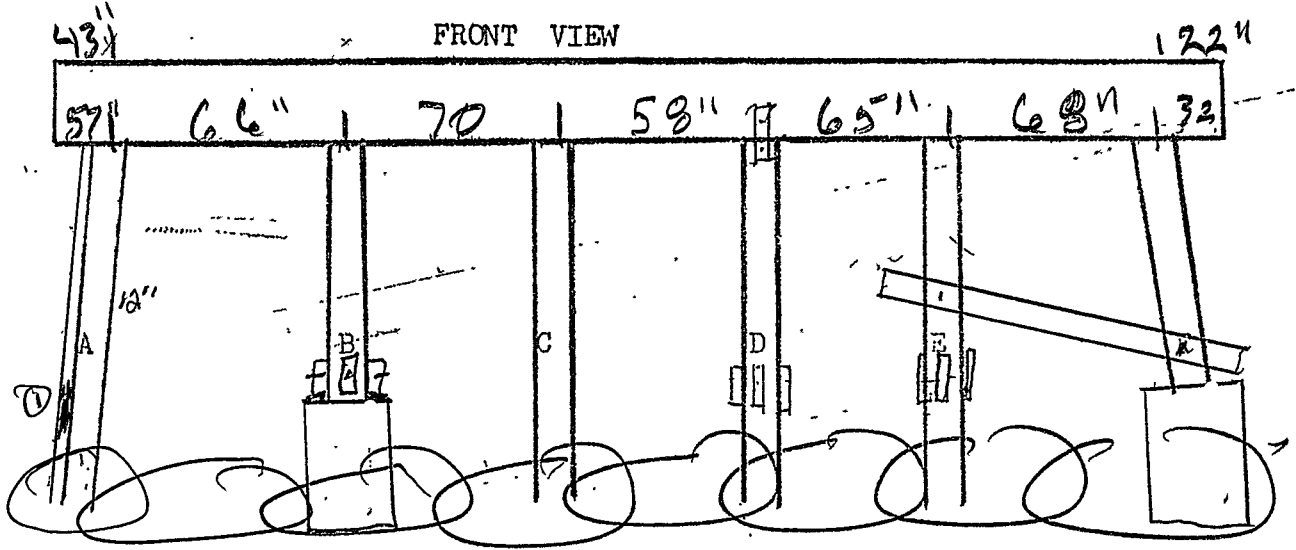
LOOKING BACK

ELEMENT		RATING	COMMENT
CAP		G (F) P C	light to med weathering
BREASTWALL		G F P C	NV
WINGS		G F P C	NV
PILING	A	G F P C	NV
	B	G F P C	
	C	G F P C	
	D	G F P C	
	E	G F P C	
RIP RAP		G (F) P C	
EMB.		G (F) P C	
VEG.		G (F) P C	med

BRIDGE NO. 38 180 2.74

AUG 18 2021
BEIT NO. 1

TIMBER BENT



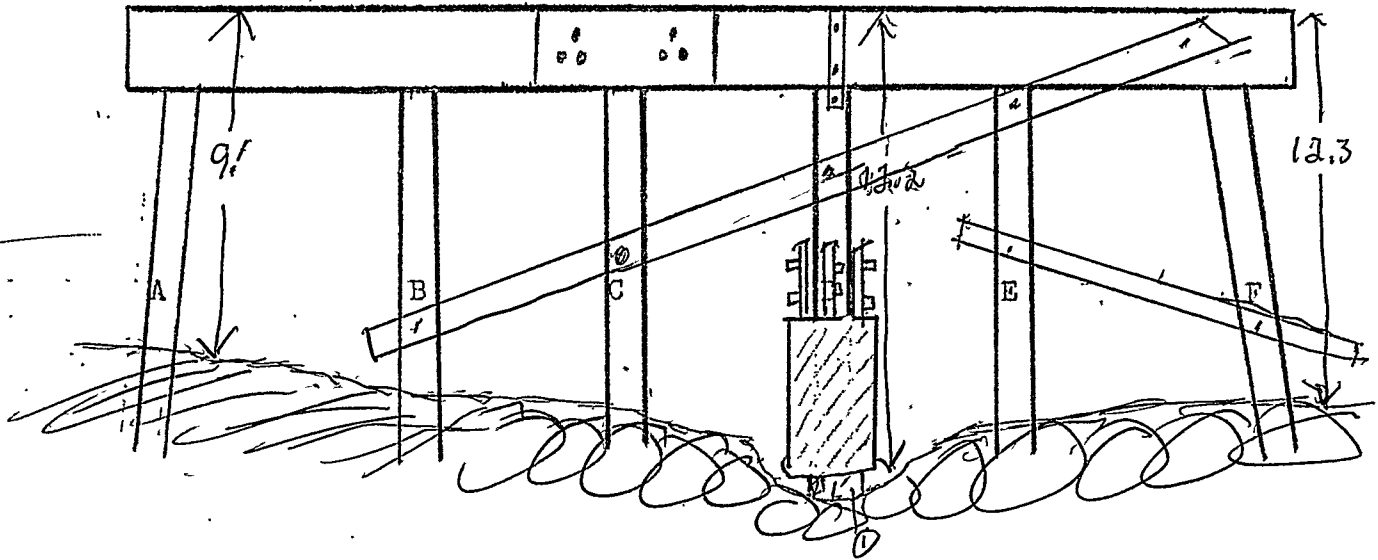
ELEMENT	RATING	COMMENTS
CAP	G F P C	① Heavy Decay 3" x 1" x 9" / 12" pile
Piling	12' A G F P C	SEC ①
	12' B G F P C	light to med weathering
	12' C G F P C	
	12' D G F P C	
	14' E G F P C	
	12' F G F P C	
BRACING	G F P C	
Conc. Casing	G F P C	

BRIDGE NO. 38 180 214

AUG 18 2021
BENT NO. 2

TIMBER BENT

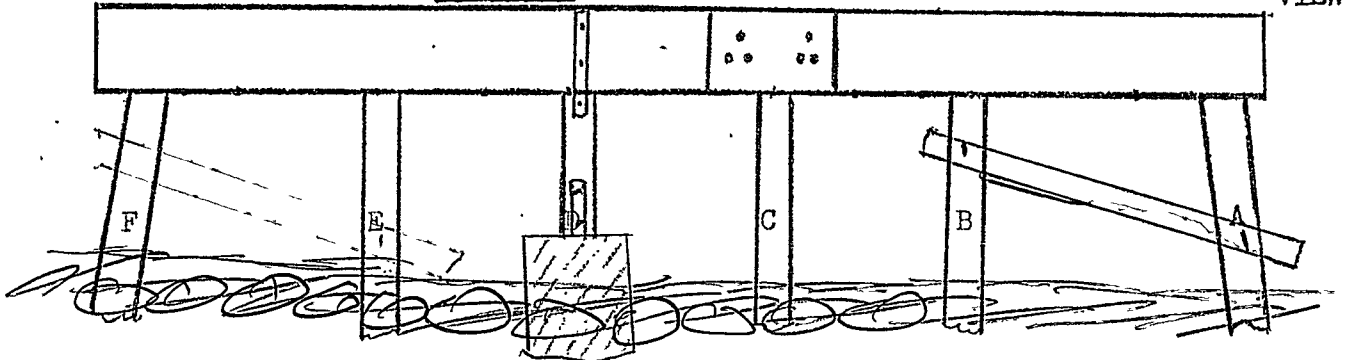
FRONT VIEW



LT. END VIEW

RT. END VIEW

REAR VIEW



ELEMENT	RATING	COMMENTS
CAP	G <u>F</u> P C	light to med WEATHERING. ① Embankment washing 1" below casing x 1 5/8" x 7 5/8"
Piling	A G <u>F</u> P C	
	B G <u>F</u> P C	
	C G <u>F</u> P C	
	D G <u>F</u> P C	
	E G <u>F</u> P C	
	F G <u>F</u> P C	
BRACING	G <u>F</u> P C	
Conc. Casing	G <u>F</u> P C	
Embankment	②	SEE ①

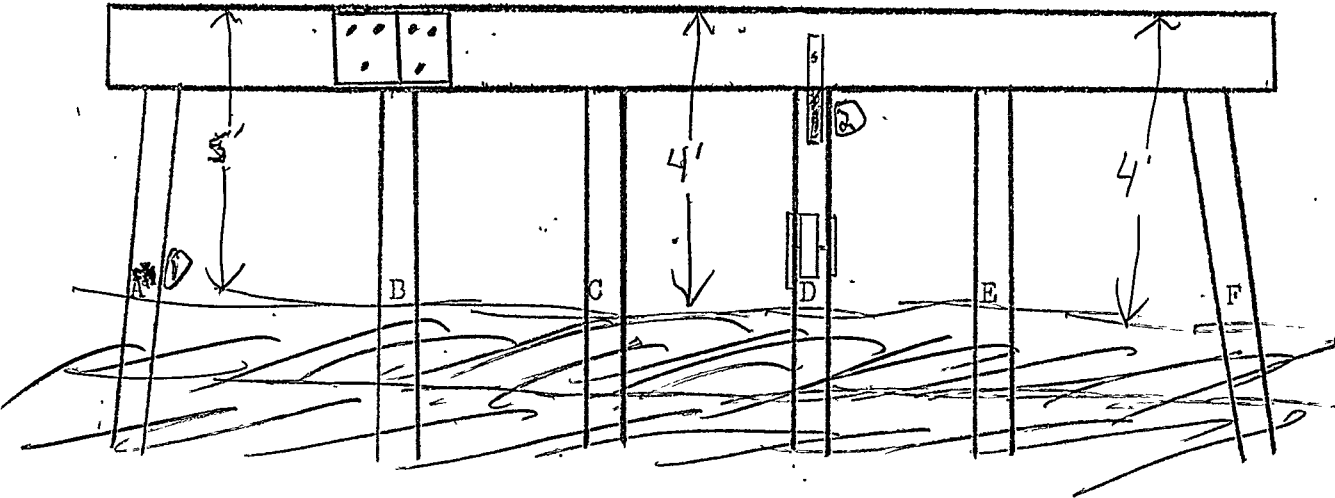
BRIDGE NO. 38 180 274

AUG 18 2021

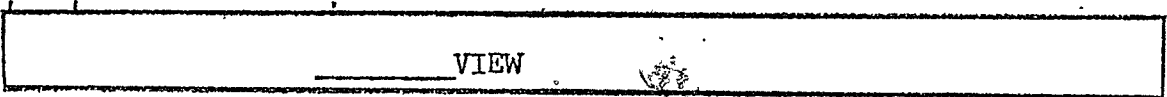
BENT NO. 1

TIMBER BENT

FRONT VIEW

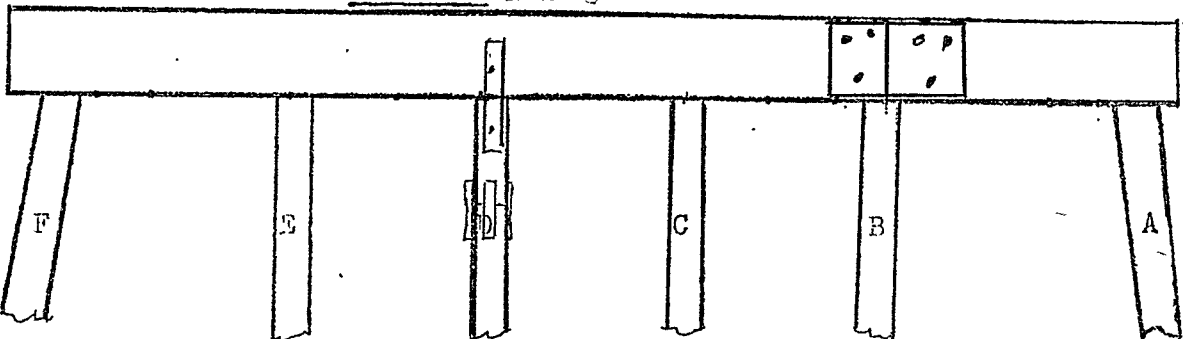


LT. END VIEW



RT. END VIEW

REAR VIEW



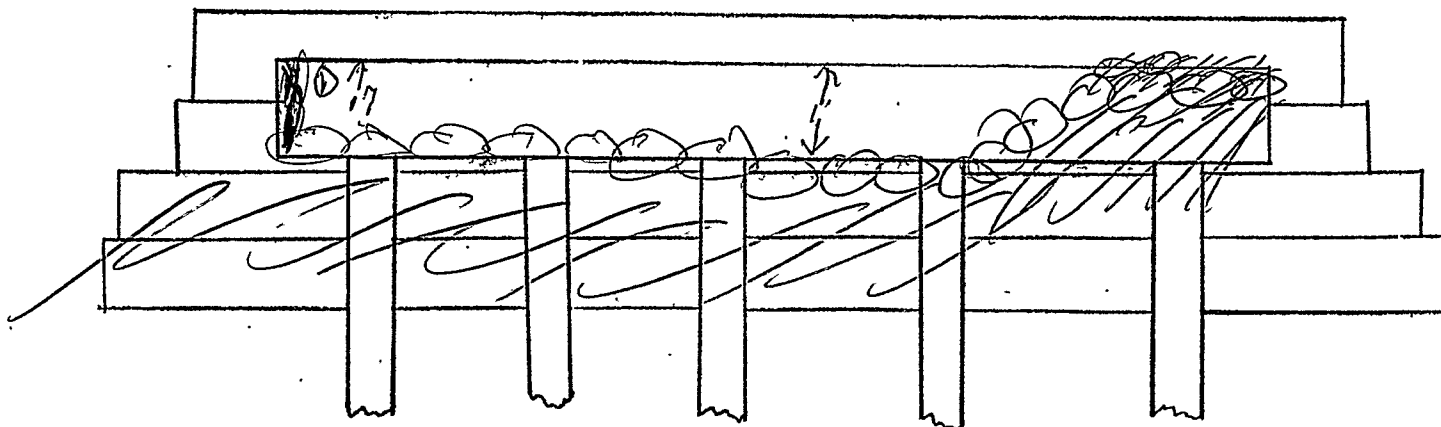
ELEMENT	RATING	COMMENTS
CAP	G F P C	light to med weathering
Piling	A G F P C	light to med weathering
	B G F P C	
	C G F P C	
	D G F P C	
	E G F P C	
	F G F P C	
BRACING	G F P C	
Splice Connector	②	See 2

① Med Decay
14" x 1 1/2" / 1 1/2" / 1 1/2"
② Broken splice
conn.

AUG 18 2021

BR. NO. 38 180 274

ABUT. NO. 2



LOOKING Ahead

ELEMENT		RATING	COMMENT
CAP		G <u>F</u> P C	1/8" to med weathering. Δ Decay 15" x 8" x 12" x 1/2"
BREASTWALL		G F P C	nv
WINGS		G F P C	nv
PILING	A	G F P C	
	B	G F P C	
	C	G F P C	
	D	G F P C	
	E	G F P C	
RIP RAP		G <u>F</u> P C	scattered
EMB.		<u>G</u> F P C	
VEG.		G <u>F</u> P C	med

AUG 18 2021

38S80510005 38 SR180 0274 _____ SKEW: 60L
BRIDGE NO.: CO. ROUTE L.M. L/R

Direction of Route

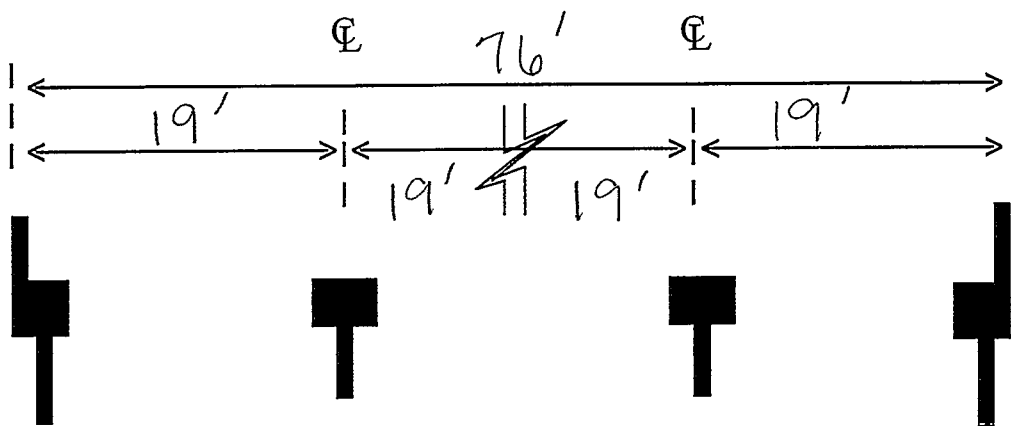


F = FIXED

E = EXPANSION

S = SIMPLE

C = CONTINUOUS



ABUT #1

BENT #1

ABUT #2

SIDE OF BRIDGE

AUG 18 2021

Your Agency Name

Your Office Name

Your Department Name

Structure Inventory and Appraisal Sheet (English Units)

ELEMENT CONDITION STATE DATA												
Str Unit	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
0	16/3	Re Conc Top Flange	sq.ft	1,900.00	100%	1,900.00	0%	0.00	0%	0.00	0%	0.00
0	510/3	Wearing Surfaces	sq.ft	1,824.00	89%	1,624.00	11%	200.00	0%	0.00	0%	0.00
0	3220/3	Crack (Wearing Surface)	sq.ft	200.00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
0	116/3	Re Conc Stringer	ft	532.00	62%	327.00	31%	167.00	7%	38.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	70.00	0%	0.00	100%	70.00	0%	0.00	0%	0.00
0	1090/3	Exposed Rebar	ft	30.00	0%	0.00	40%	12.00	60%	18.00	0%	0.00
0	1120/3	Efflorescence/Rust Staining	ft	20.00	0%	0.00	0%	0.00	100%	20.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	85.00	0%	0.00	100%	85.00	0%	0.00	0%	0.00
0	216/3	Timber Abutment	ft	62.00	95%	59.00	5%	3.00	0%	0.00	0%	0.00
0	1020/3	Connection	ft	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
0	1140/3	Decay/Section Loss	ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
0	228/3	Timber Pile	(EA)	18.00	89%	16.00	6%	1.00	6%	1.00	0%	0.00
0	1140/3	Decay/Section Loss	(EA)	2.00	0%	0.00	50%	1.00	50%	1.00	0%	0.00
0	235/3	Timber Pier Cap	ft	94.00	100%	94.00	0%	0.00	0%	0.00	0%	0.00
0	333/3	Other Bridge Railing	ft	152.00	97%	148.00	1%	2.00	1%	2.00	0%	0.00
0	7000/3	Damage	ft	4.00	0%	0.00	50%	2.00	50%	2.00	0%	0.00

HAYWOOD COUNTY

38-SR180-0274

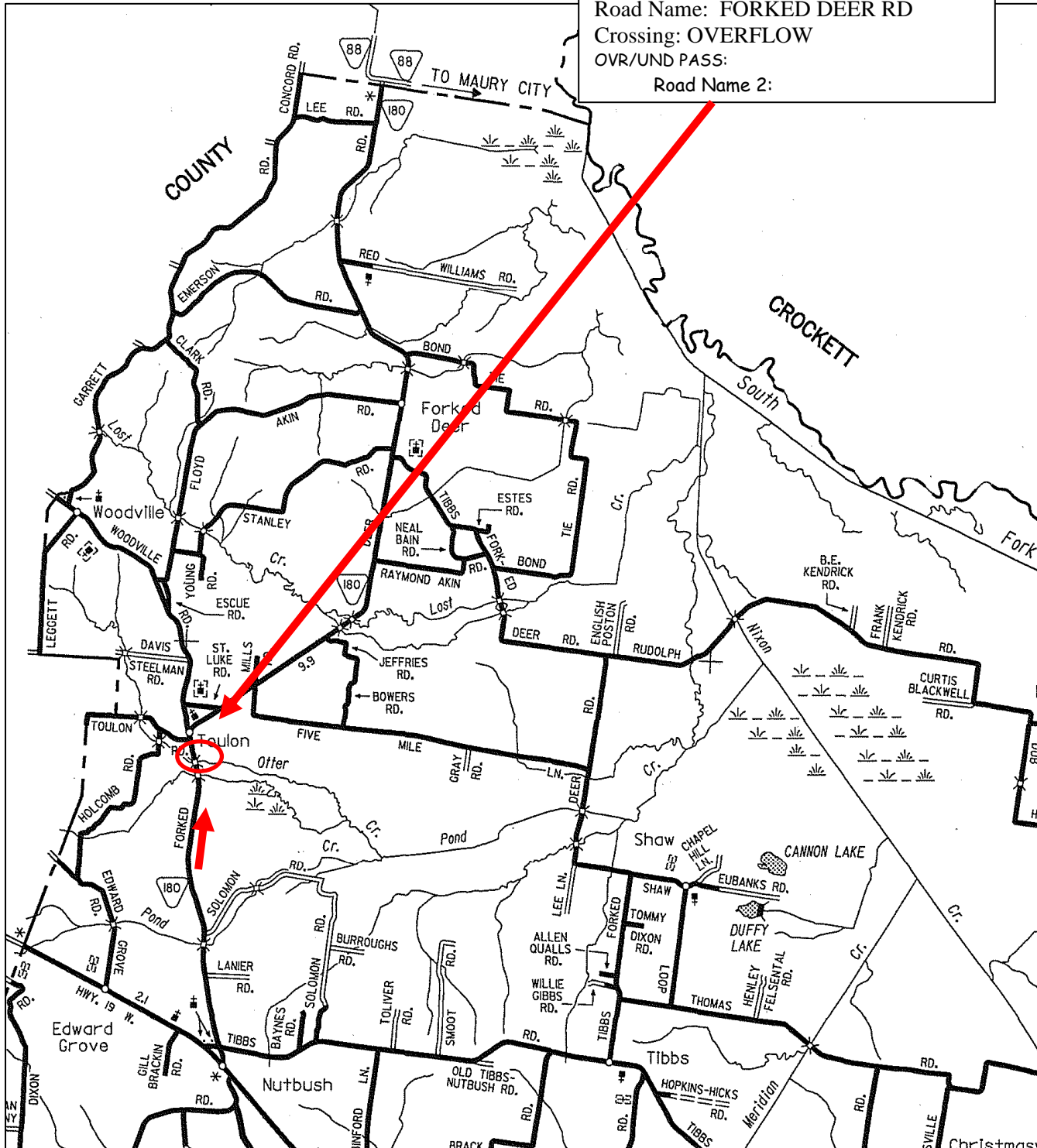
Federal ID: 38S80510005

Road Name: FORKED DEER RD

Crossing: OVERFLOW

OVR/UND PASS:

Road Name 2:



Bridge Loc. No: 38-SR180-02.74 Date: 9-20-21



BRIDGE NUMBER



BENT # 1 PILE "A"

Bridge Loc. No: 38-SR180-02.74 Date: 9-20-21



BENT # 2 PILE "C" RIP RAP



BENT # 3 PILE "D"

Bridge Loc. No: 38-SR180-02.74 Date: 9-20-21



BENT # 1 REAR SIDE



BENT # 1 SLICE

Bridge Loc. No: 38-SR180-02.74 Date: 9-20-21



SPAN # 2 MISSING BOLTS



APPROACH # 1 LEFT EMBANKMENT

Bridge Loc. No: 38-SR180-02.74 Date: 9-20-21



APPROACH # 2 RIGHT GUARD RAIL



LOOKING AHEAD ON ROUTE

BRIDGE EVALUATION REPORT

Bridge Location No. 38 - SR180 - 02.74

Inspection Date 09-20-21

1. Bridge is open to traffic.
2. New pile "A" at bent #1 has been added.
3. No change to slabs.
4. Rip-rap has been added around casing of bent #2, pile "D".
5. No change in bolts.
6. No change in embankment erosion.
7. No change in approaches.
8. No change in rail.

Bent #2, pile "D" old splice plates have been replaced.

According to bridge repair, pile "A" was driven 18' in ground.

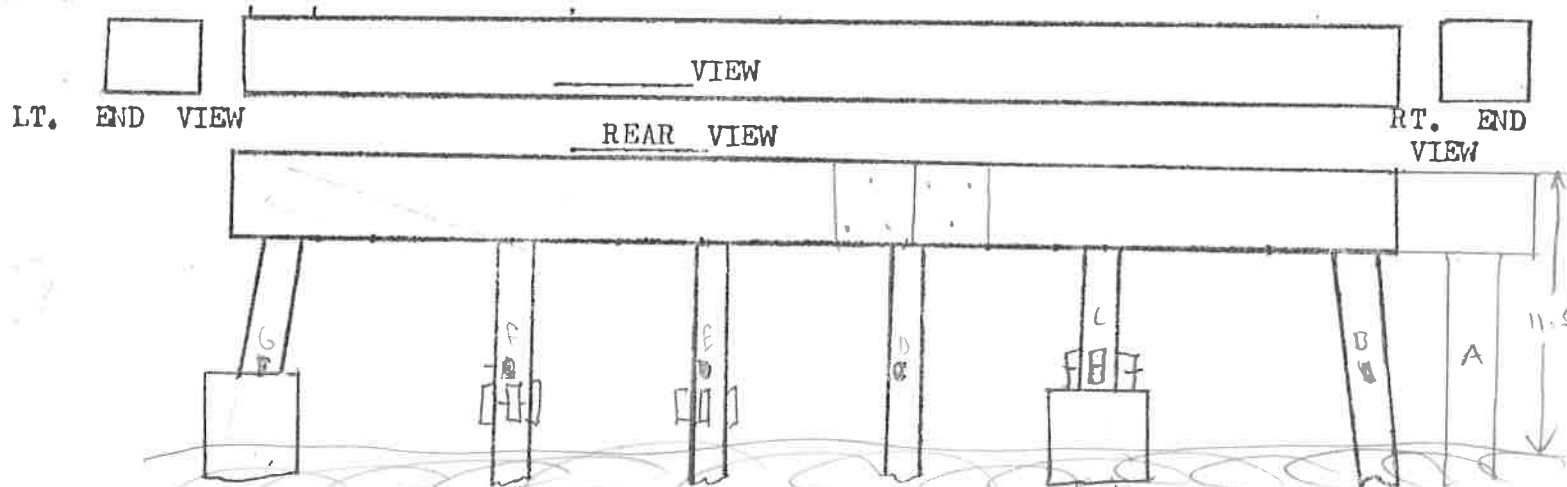
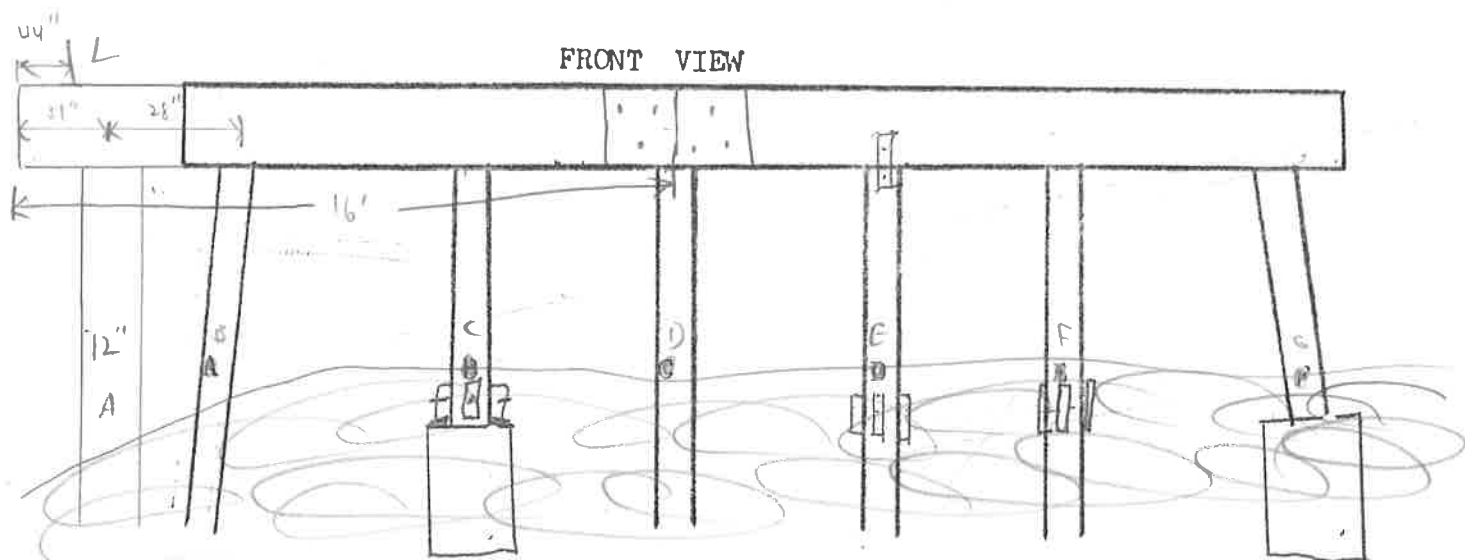
Jacob Kee

SEP 20 2021

BRIDGE NO. 38 180 2.74

BENT NO. 2

TIMBER BENT



ELEMENT	RATING	COMMENTS
CAP	G (F) P C	Light to medium weathering
Piling	A G (F) P C	
	B G F P C	
	C G F P C	
	D G F P C	
	E G F P C	
	F G F P C	
BRACING	G F P C	
Conc. Casing	G F P C	

Bridge Maintenance Recommendations



Page No. _____
Page 1 of 1

Bridge Location No.: **38 - SR180 - 0274**

Co. Route Log Mile

Bridge Number: **38S80510005**

Crossing: **OVERFLOW**

Over/Underpass
No:

Road Name: **FORKED DEER ROAD**

Road Name #2:

Bridge Rating: **POOR**

Region: **04**

District: **48**

Spec.Cas **-0-**

Inspection Cycle: **26**

County: **HAYWOOD**

Maint.Resp **02**

Co.Seq: **01**

Inspection Date: **8/18/2021**

City:

Pipes:

G.P.S.:

Comments:

N35 44.0750

W89 24.8700

Barrels @ Length Width

RECOMMENDATIONS:

Maintenance Completed: by/date

023	REPAIR LOAD-LIMIT SIGNS AT APPROACH NO. 2
------------	--

SUGGESTED ROUTINE MAINTENANCE:

238	BRIDGERAILS ARE SUBSTANDARD
229	APPROACH GUARDRAILS ARE NON-EXISTENT
066	REPAIR METAL RAILING IN SPAN NO. 1 RT
004	REPAIR EMBANKMENT AT APPROACH NO. 1 RT
241	REPLACE PRECAST CONCRETE CHANNEL SLAB F, G IN SPAN NO. 1
241	REPLACE PRECAST CONCRETE CHANNEL SLAB F IN SPAN NO. 3
125	PROTECT FROM SCOUR AT BENT NO. 2
141	REPAIR OR REPLACE TIMBER PILE A AT BENT NO. 1
131	PROPERLY SPLICE PILE D AT BENT NO. 3

plate.

COMMENTS: ON MONDAY AUGUST 30, 2021, A NEW PILING WAS DRIVEN OUTSIDE EXIST. PILE A @ BENT 1,
ON WEDNESDAY SEPTEMBER 1, 2021 THE NEW PILING WAS PULLED UNDER THE CAP.

Stan Reynolds

9/10/2021

18 ft in ground 10 ft From ground to cap From center to center
pile old & new 26" at top of pile and at the ground center of
Both pile 21' center of each piling

e Maintenance Recommendations



Page No. _____
Page 1 of 1

Location No.: **38 - SR180 - 0274**

Co. Route Log Mile

: OVERFLOW

me: FORKED DEER ROAD

ne #2:

ating: POOR

n Cycle: 26 County: HAYWOOD

n Date: 8/18/2021 City:

Comments:

3750

8700

Bridge Number: **38S80510005**

Over/Underpass

No:

Region: 04

District: 48

Maint.Resp 02

Spec.Cas -0-

Co.Seq: 01

Pipes:

Barrels @ Length Width

Maintenance Completed: by/date

RECOMMENDATIONS:

REPAIR LOAD-LIMIT SIGNS AT APPROACH NO. _2

ED ROUTINE MAINTENANCE:

BRIDGERAILS ARE SUBSTANDARD

APPROACH GUARDRAILS ARE NON-EXISTENT

REPAIR _METAL_ RAILING IN SPAN NO. _1 RT

REPAIR EMBANKMENT AT APPROACH NO. _1 RT

REPLACE PRECAST CONCRETE CHANNEL SLAB _F, G_ IN SPAN NO. _1

REPLACE PRECAST CONCRETE CHANNEL SLAB _F_ IN SPAN NO. _3

PROTECT FROM SCOUR AT BENT NO. _2

REPAIR OR REPLACE _TIMBER_ PILE _A_ AT BENT NO. _1

PROPERLY SPLICE PILE _D_ AT BENT NO. _3

Repaired pile D Bent No 3 with new splice at top 9-14-21
of pile and place rock around scour at pile in Bent No 2.

J.K.

MENTS: