



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE, STRUCTURE DATA CHANGE**

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 09/19/2018

DIVISION: 4 COUNTY: NASH STRUCTURE NUMBER: 630221 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1544 MILE POST: _____

LOCATION: 0.2 MI.W. NC48

FEATURE INTERSECTED: I95

LATITUDE: 36° 3' 40.39" LONGITUDE: 77° 49' 27.41"

SUPERSTRUCTURE: RC FLOOR/I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&B/PILE FTGS.

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: DECK 5 SUPERSTRUCTURE 6 SUBSTRUCTURE 6 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION W-E

DIRECTION MATCHES PLANS _____

LOOKING EAST

INSPECTED BY MICHAEL R. MEYER	SIGNATURE 	ASSISTED BY STUART R. HALL
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Structure Element Scoring

Structure Number: 630221

Inspection Date 9/19/2018

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	9288	5103	3801	376	8
107	0	Steel Open Girder/Beam	Beam	1288	1281	7	0	0
515	107	Steel Protective Coating	Beam	10638	10638	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	8	4	1	3	0
215	0	Reinforced Concrete Abutment	Abutments	80	80	0	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	21	21	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	194	113	25	56	0
301	0	Pourable Joint Seal	Expansion Joints	128	111	9	2	6
311	0	Movable Bearing	Bearing Device	20	4	16	0	0
515	311	Steel Protective Coating	Bearing Device	20	4	0	16	0
313	0	Fixed Bearing	Bearing Device	20	3	17	0	0
515	313	Steel Protective Coating	Bearing Device	20	4	0	16	0
330	0	Metal Bridge Railing	Bridge Rail	650	650	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **630221**

Inspection Date: **09/19/2018**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Abrasion/Wear (PSC/RC)	200 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	32 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	3454 Square Feet
3326	Reinforced Concrete Deck	Patched Areas	356 Square Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	7 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	52 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	12 Feet
3310	Pourable Joint Seal	Seal Adhesion	6 Feet
3342	Steel Protective Coating	Oxide Film Degradation Color/Texture Adherence (Steel Protec	1 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	30 Square Feet

Element Structure Maintenance Quantities

Structure Number: **630221**

Inspection Date **09/19/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	80	0	0	0	80
Beam	3314	Maintenance Steel Superstructure Components	0	1288	0	0	7	1281
Beam	3342	Clean and Paint Steel	0	10638	0	0	0	10638
Bearing Device	3334	Bridge Bearing	0	40	0	0	33	7
Bearing Device	3342	Clean and Paint Steel	31	40	0	32	0	8
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	650	0	0	0	650
Caps	3348	Maintenance of Concrete Substructure	64	194	0	56	25	113
Deck	3326	Maintenance of Concrete Deck	4042	9288	8	376	3801	5103
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	6	128	6	2	9	111
Footing	3348	Maintenance of Concrete Substructure	0	21	0	0	0	21
Piles and Columns	3348	Maintenance of Concrete Substructure	7	22	0	3	1	18

Element Condition and Maintenance Data

Structure Number: 630221

Inspection Date: 09/19/2018

Span 1 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,546	243	1,289	6	8 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN. (PM)	4	8	8 Square Feet
12	Patched Areas	3 FT X 2 FT UNSOUND PATCH AT CENTERLINE AT MIDSPAN.	3	6	6 Square Feet
12	Cracking (RC and Other)	20 FT X 10 FT AREA OF HAIRLINE TRANSVERSE CRACKING WITH EFFLORESCENCE UP TO 1/16 IN, UNDERSIDE OF DECK IN BAY 3.	2	200	200 Square Feet
12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT EASTBOUND LANE AND WESTBOUND LANE NEAR BENT 1.	2	900	900 Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE SPACED AT APPROXIMATELY 3 FT CENTERS, AT RANDOM THROUGHOUT FULL LENGTH OF UNDERSIDE OF LEFT OVERHANG.	2	53	53 Square Feet
12	Patched Areas	(2) 1 FT DIAMETER ASPHALTIC PATCHES, AT CENTERLINE, 10 FEET FROM END BENT 1.	2	2	Square Feet
12	Patched Areas	(5) 1 FT DIAMETER SOUND PATCHES ALONG CENTERLINE THROUGHOUT SPAN.	2	5	Square Feet
12	Patched Areas	3 FT X 3 FT SOUND PATCH IN SOUTHERN PORTION OF EASTBOUND TRAVEL LANE AT END BENT 1.	2	9	Square Feet
12	Patched Areas	40 FT X 3 FT SOUND ASPHALTIC PATCH ALONG SOUTHERN PORTION OF EASTBOUND TRAVEL LANE.	2	120	Square Feet

General Comments

Span 1 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	53	52	1	0	0 Feet
515	Steel Protective Coating	487	487	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Distortion	(2) 1/8 IN UPWARD DEFORMATIONS AT APPROXIMATELY 1 FT SPACING, SOUTH SIDE OF BOTTOM FLANGE AT MIDSPAN.	2	1	Feet

General Comments

Span 1 Near Bearing Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARINGS.	3	1	1 Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLATE.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATE.	3	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	HEAVY SURFACE RUST ON BEARING PLATE.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATE.	3	1	1	Square Feet

General Comments

Span 1 Near Bearing
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARINGS.	3	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1		Each

515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet
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General Comments**Span 1 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARINGS.	3	1	1 Square Feet

General Comments**Span 1 Far Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	Square Feet

General Comments**Span 2 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	2,062	1,435	273	354	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	2 FT X 1 FT DELAMINATION ON DECK OVERHANG.	3	2	2 Square Feet
12	Delamination/Spall	2 FT X 1 FT DELAMINATION AT RIGHT OVERHANG COPING NEAR BENT 2.	3	2	2 Square Feet
12	Patched Areas	350 SQ FT AREA OF SOUND AND UNSOUND PATCHES THROUGHOUT EASTBOUND LANE.	3	350	350 Square Feet
12	Abrasion/Wear (PSC/RC)	ABRASION THROUGHOUT WESTBOUND LANES AT RANDOM.	2	200	200 Square Feet
12	Cracking (RC and Other)	1 FT TRANSVERSE CRACK UP TO 1/32", MIDDLE OF WESTBOUND LANE AT BENT 2 JOINT.	2	1	1 Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACKS ON UNDERSIDE OF LEFT OVERHANG WITH EFFLORESCENCE SPACED AT 3 FT	2	72	72 Square Feet

General Comments

Span 2 Expansion Joint, Bent 1**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	32	20	5	1	6 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Seal Adhesion	6' OF COMPLETE LOSS OF ADHESION AT RANDOM ALONG JOINT.	4	6	6 Feet
301	Seal Adhesion	1 FT LENGTH OF ADHESION LOSS NEAR RIGHT RAIL UP TO 1 1/2 IN DEEP.	3	1	Feet
301	Adjacent Deck or Header	5' OF ADJACENT DECK HAS BEEN PATCHED IN EAST BOUND LANE.	2	5	Feet

General Comments**Span 2 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 2 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 2 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	HEAVY SURFACE RUST ON SOLE PLATE.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON SOLE PLATE.	3	1	1 Square Feet

General Comments**Span 2 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments**Span 3 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,904	1	1,898	5	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	1 FT DIAMETER DELAMINATION 15 FT FROM BENT 2 IN RIGHT OVERHANG.	3	1	1	Square Feet
12	Delamination/Spall	2 FT X 2 FT DELAMINATION AT DRAIN IN RIGHT OVERHANG.	3	4	4	Square Feet
12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGHOUT.	2	1,898	1,904	Square Feet

General Comments**Span 3 Expansion Joint, Bent 2****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	32	31	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Seal Adhesion	1' OF PARTIAL LOSS OF ADHESION, NEAR SOUTH CURB.	3	1		Feet

General Comments**Span 3 Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	66	60	6	0	0	Feet
515	Steel Protective Coating	602	602	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	6 FT LENGTH OF CORROSION ON BOTTOM OF WEB PAINTED OVER.	2	6		Feet

General Comments

Span 3 Near Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments

Span 3 Far Bearing
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE AT BEARING PLATES.	3	1	1	Square Feet

General Comments

Span 3 Near Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments

Span 3 Far Bearing
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each

515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE AT BEARING PLATES.	3	1	1	Square Feet
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General Comments**Span 3 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 3 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE AT BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 3 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments

Span 3 Far Bearing
Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	1	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each

General Comments

Span 4 Deck
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,321	2,244	75	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	1 FT X 6 IN DELAMINATION ON LEFT OVERHANG, 30 FT FROM BENT 3 OVER LEFT LANE.	3	1	1	Square Feet
12	Delamination/Spall	18 IN X 6 IN DELAMINATION ON LEFT OVERHANG, 40 FT FROM BENT 3, OVER MIDDLE LANE.	3	1	1	Square Feet
12	Cracking (RC and Other)	AREAS OF TRANSVERSE MAP CRACKING UP TO 1/32 IN AT RANDOM THROUGHOUT EASTBOUND LANE.	2	60	60	Square Feet
12	Delamination/Spall	2 FT X 2 FT DELAMINATION ON LEFT OVERHANG, 25 FT FROM BENT 3.	2	4	4	Square Feet
12	Patched Areas	2 FT X 2 FT PATCH ON LEFT OVERHANG, 45 FT FROM BENT 3 OVER MIDDLE LANE.	2	1		Square Feet
12	Patched Areas	5 FT X 2 FT PATCH ON RIGHT OVERHANG, 30 FT FROM BENT 3.	2	10		Square Feet

General Comments

Span 4 Expansion Joint, Bent 3
Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	32	30	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Adjacent Deck or Header	18" X 5" DELAMINATION, ALONG SPAN 4 HEADER, NEAR SOUTH CURB.	2	2		Feet

General Comments

Span 4 Near Bearing
Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each

515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet
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General Comments**Span 4 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 4 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments**Span 4 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

General Comments

Span 4 Near Bearing**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments**Span 4 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments**Span 4 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments**Span 4 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECTIVE ON BEARING PLATES.	3	1	1	Square Feet

General Comments**Span 5 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,455	1,180	266	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	2 FT X 4 FT AREA OF DELAMINATIONS WITH SPALLING UP TO 1/2 DEEP, EASTBOUND LANE, 10 FT FROM END BENT 2.	3	9	9 Square Feet
12	Cracking (RC and Other)	FULL LENGTH MAP CRACKING RIGHT SIDE OF EASTBOUND LANE, FULL LENGTH.	2	250	250 Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACKS ON UNDERSIDE OF LEFT	2	4	4 Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE AT RANDOM THROUGHOUT UNDERSIDE OF RIGHT OVERHANG.	2	10	10 Square Feet
12	Patched Areas	1 FT X 2 FT SOUND PATCH IN EASTBOUND LANE, 10 FT FROM END BENT 2.	2	2	Square Feet

General Comments**Span 5 Expansion Joint, Bent 4****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	32	30	2	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Seal Adhesion	2' OF PARTIAL LOSS OF ADHESION, NEAR CENTER OF EAST BOUND LANE.	2	2	Feet

General Comments**Span 5 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1 Square Feet

General Comments

Span 5 Near Bearing**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

General Comments**Span 5 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

General Comments**Span 5 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

General Comments**Span 5 Near Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

General Comments**Span 5 Far Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1 Square Feet

General Comments**Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	10	17	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	15" X 7'X 3" SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT. NO LOSS OF BEARING AREA.	3	2	2 Feet
234	Cracking (RC and Other)	HAIRLINE MAP CRACKING, WEST FACE BELOW BEAMS 1 AND 2.	2	9	Feet
234	Delamination/Spall	2 FT X 6 FT DELAMINATION, EAST FACE BELOW BEAM 1.	2	3	3 Feet
234	Delamination/Spall	20" X 6" DELAMINATION, EAST FACE OF SPAN 1 BEAM 3 SEAT.	2		2 Feet
234	Patched Area	2' X 18" SOUND PATCH, WEST FACE BELOW BEAM 4.	2	2	Feet
234	Patched Area	30" X 2' SOUND PATCHED AREA, WEST FACE BELOW BEAM 3.	2	3	Feet

General Comments**Bent 1 Pile 2****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Cracking (RC and Other)	4 FT VERTICAL CRACK UP TO 1/16 IN, NEAR TOP OF SOUTH FACE, SIMILAR ON NORTHEAST CORNER.	2	1	Each

General Comments

End Bent 1**Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	41	21	0	20	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	20 FT HORIZONTAL CRACK UP TO 1/8 IN, BETWEEN BEAMS 1 THROUGH 4.	3	20	20 Feet

General Comments**Bent 2****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	26	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	1 FT VERTICAL CRACK WITH EFFLORESCENCE UP TO 1/16 IN BELOW BEAM 1, NEAR TOP OF CAP ON EAST FACE.	2	1	Feet
234	Cracking (RC and Other)	HAIRLINE MAP CRACKS WITH EFFLORESCENCE, UNDERSIDE OF CAP, BELOW BEAM 3.	2	2	Feet

General Comments**Bent 3****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	28	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	2 FT X 6 IN SPALL WITH EXPOSED REINFORCEMENT ON UNDERSIDE OF RIGHT END OF CAP.	3	1	1 Feet

General Comments**Bent 3****Pile 1****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO 1/8 IN ON SOUTH FACE OF COLUMN NEAR TOP.	3	1	1 Each

General Comments

Bent 4 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	0	1	28	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	20 FT HORIZONTAL CRACK UP TO 1/8" ON WEST FACE OF CAP NEAR TOP.	3	20	20 Feet
234	Cracking (RC and Other)	40" HORIZONTAL CRACK UP TO 1/8" EAST FACE OF CAP, BELOW BEAM 4.	3	4	Feet
234	Delamination/Spall	2 FT X 1 FT AREA OF DELAMINATION ON EAST FACE OF CAP BELOW BAY 3.	3	2	2 Feet
234	Delamination/Spall	3 FT X 3 FT AREA OF SPALLING AND DELAMINATION, SOUTH FACE OF BENT CAP.	3	2	2 Feet
234	Cracking (RC and Other)	5 FT HORIZONTAL CRACK UP TO 1/16 IN ON UNDERSIDE OF CAP BELOW BAY 2.	2	1	5 Feet
234	Cracking (RC and Other)	8' OF HORIZONTAL CRACKING UP TO 1/32" EAST FACE OF CAP BELOW BAY 1.	2		Feet

General Comments**Bent 4 Pile 1****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO 1/16 IN TOP OF SOUTH FACE OF COLUMN.	3	1	3 Each

General Comments**Bent 4 Pile 2****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinforced Concrete Column	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO 1/16", TOP OF SOUTH FACE.	3	1	3 Each

General Comments**Bent 5 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	37	28	4	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	5 FT HORIZONTAL CRACK UP TO 1/8 IN, BELOW BAY 3.	3	5	5 Feet
234	Cracking (RC and Other)	2 FT HORIZONTAL CRACK UP TO 1/32" BELOW BAY 2.	2	2	Feet

Structure Number: **630221**

Inspection Date: **09/19/2018**

234	Cracking (RC and Other)	2 FT HORIZONTAL HAIRLINE CRACK IN TOP OF CAP NEXT TO BEAM 2 IN BAY 1.	2	2	2 Feet
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General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1546
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 1	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	54
Span 1	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	54
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2062
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	72
Span 2	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	72
Span 2	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	72
Span 2	Expansion Joint, Bent 1	Standard Joint	Pourable Joint Seal	32
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1904
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	64
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	65
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	65
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	66
Span 3	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	67
Span 3	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	67
Span 3	Expansion Joint, Bent 2	Standard Joint	Pourable Joint Seal	32
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2321
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	81
Span 4	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	81
Span 4	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	81
Span 4	Expansion Joint, Bent 3	Standard Joint	Pourable Joint Seal	32
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1455
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 5	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	51
Span 5	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	51
Span 5	Expansion Joint, Bent 4	Standard Joint	Pourable Joint Seal	32
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	41
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

Elements Verified

Location	Name	Component	Element Name	Amount
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 5	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	37
Bent 5	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 630221

Inspection Date: 09/19/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	N
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	7782	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		
Superstructure Paint Code		I		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	4
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 630221

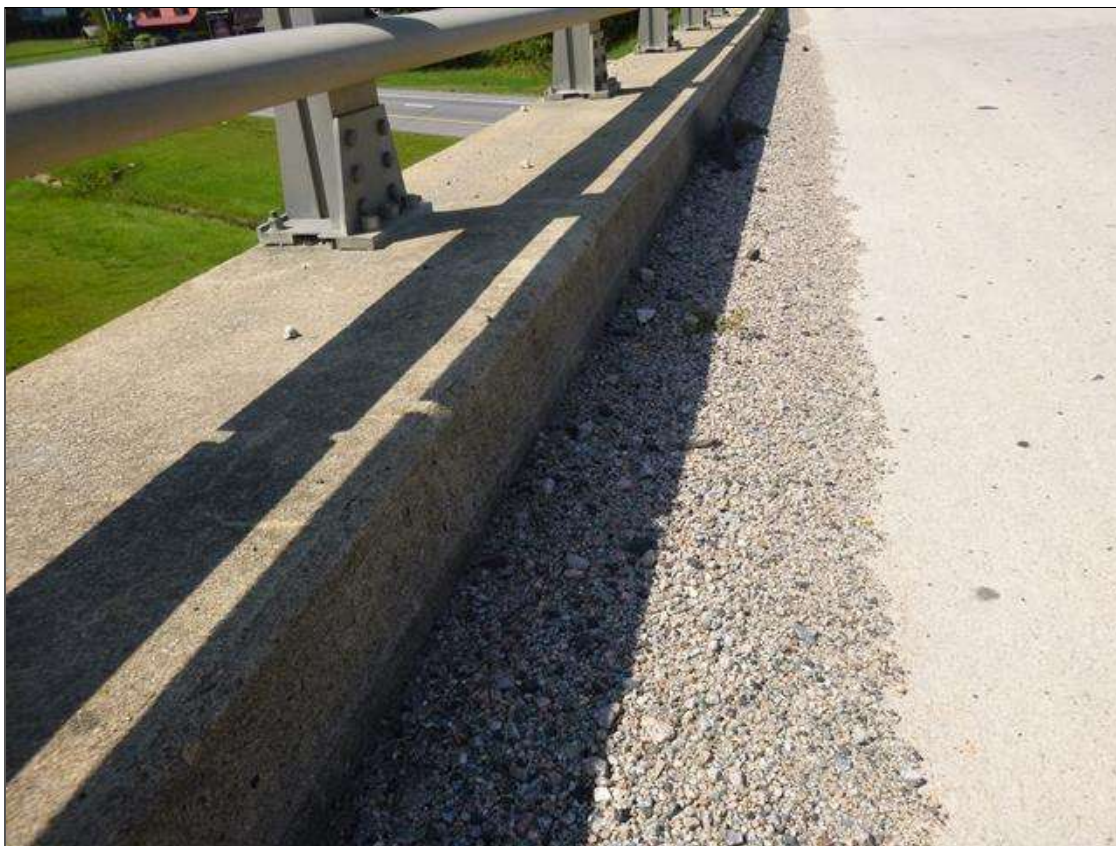
Inspection Date: 09/19/2018

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	7782
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Details 18" X 3" DEEP OF GRAVEL AND DEBRIS ALONG FULL LENGTH OF BOTH CURBS.

Item	General Comments and Misc Items	Grade	F	Maint Code		Qty.	0
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Details 8' OF IMPACT DAMAGE TO NORTHEAST GUARDRAIL.



Deck Debris: 18" X 3" DEEP OF GRAVEL AND DEBRIS ALONG FULL LENGTH OF BOTH CURBS.



Span 1 Deck: (2) 1 FT DIAMETER ASPHALTIC PATCHES, AT CENTERLINE, 10 FEET FROM END BENT 1.



Span 1 Deck: 40 FT X 3 FT SOUND ASPHALTIC PATCH ALONG SOUTHERN PORTION OF EASTBOUND TRAVEL LANE.



Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN. (PM)



Expansion Joint, Bent 1 : 6' OF COMPLETE LOSS OF ADHESION AT RANDOM ALONG JOINT.



Span 2 Deck: 350 SQ FT AREA OF SOUND AND UNSOUND PATCHES THROUGHOUT EASTBOUND LANE.



Expansion Joint, Bent 3 : 18" X 5" DELAMINATION, ALONG SPAN 4 HEADER, NEAR SOUTH CURB.



General Comments and Misc. Items: 8' OF IMPACT DAMAGE TO NORTHEAST GUARDRAIL.



End Bent 1 Cap 1: 20 FT HORIZONTAL CRACK UP TO 1/8 IN, BETWEEN BEAMS 1 THROUGH 4.



Bent 1 Cap 1: 30" X 2' SOUND PATCHED AREA, WEST FACE BELOW BEAM 3.



Bent 1 Cap 1: 15" X 7'X 3" SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT. NO LOSS OF BEARING AREA.



Bent 1 Cap 1: 20" X 6" DELAMINATION, EAST FACE OF SPAN 1 BEAM 3 SEAT.



Bent 3 Cap 1: 2 FT X 6 IN SPALL WITH EXPOSED REINFORCEMENT ON UNDERSIDE OF RIGHT END OF CAP.



Bent 4 Cap 1: 3 FT X 3 FT AREA OF SPALLING AND DELAMINATION, SOUTH FACE OF BENT CAP.



End Bent 5 Cap 1: 5 FT HORIZONTAL CRACK UP TO 1/8 IN, BELOW BAY 3.



LOOKING EAST



WEST APPROACH, LOOKING EAST



EAST APPROACH, LOOKING WEST



CONCRETE BRIDGE DECK, SPAN 1, LOOKING EAST



NORTH BRIDGE RAIL



SOUTH BRIDGE RAIL



NORTHWEST GUARDRAIL ATTACHMENT



SOUTHWEST GUARDRAIL ATTACHMENT



NORTHWEST GUARDRAIL



SOUTHWEST GUARDRAIL



NORTHWEST GUARDRAIL TERMINAL



SOUTHWEST GUARDRAIL TERMINAL



ROADWAY VIEW FROM BRIDGE DECK, LOOKING NORTH



ROADWAY VIEW FROM BRIDGE DECK, LOOKING SOUTH



NORTHEAST GUARDRAIL ATTACHMENT



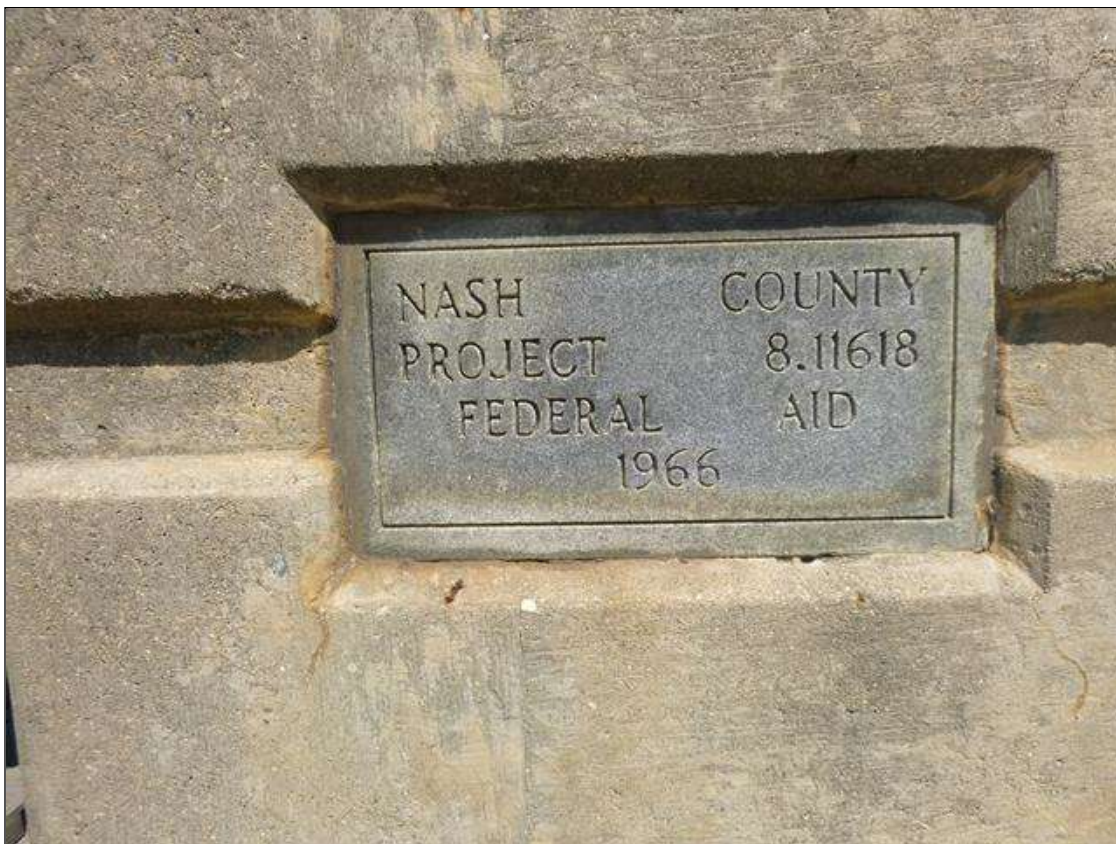
SOUTHEAST GUARDRAIL ATTACHMENT



NORTHEAST GUARDRAIL



SOUTHEAST GUARDRAIL



BRIDGE PLAQUE



CRACK OVER END BENT 1, LOOKING NORTH



JOINT OVER BENT 1, LOOKING NORTH



JOINT OVER BENT 2, LOOKING NORTH



JOINT OVER BENT 3, LOOKING NORTH



JOINT OVER BENT 4, LOOKING NORTH



CRACK OVER END BENT 2, LOOKING NORTH



SOUTHWEST WINGWALL



NORTHWEST WINGWALL



END BENT 1 ELEVATION, LOOKING WEST



END BENT 1 SLOPE PROTECTION, LOOKING WEST



BENT 1 ELEVATION, LOOKING EAST



BENT 2 ELEVATION, LOOKING EAST



INTERMEDIATE DIAPHRAGM, SPAN 1, AT 1/2 POINT, LOOKING EAST



END DIAPHRAGM, BENT 1, BAY 2, LOOKING EAST



BEARING ASSEMBLY, END BENT 1, BEAM 2, LOOKING WEST



BEARING ASSEMBLY OVER BENT 1, BEAM 2, LOOKING SOUTH



SPAN 2 CLEARANCE, LOOKING SOUTH



NORTH PROFILE, LOOKING SOUTH



SUPERSTRUCTURE UNDERSIDE, SPAN 2, LOOKING EAST



BENT 3 ELEVATION, LOOKING EAST



BENT 4 ELEVATION, LOOKING EAST



SPAN 4 CLEARANCE, LOOKING NORTH



SOUTH PROFILE, LOOKING NORTH



END BENT 2 SLOPE PROTECTION, LOOKING EAST



END BENT 2 ELEVATION, LOOKING EAST



SOUTHEAST WINGWALL



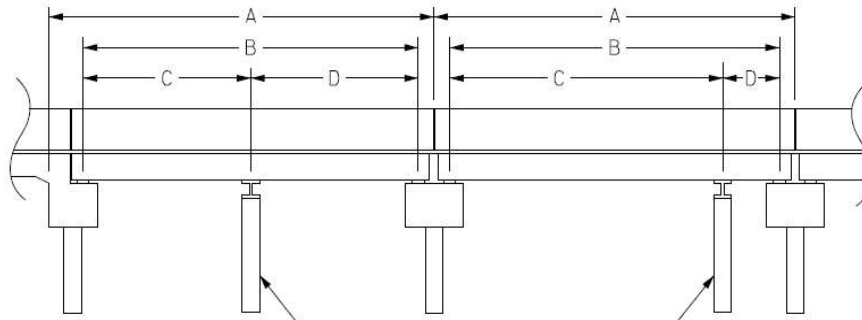
NORTHEAST WINGWALL

Structure Data Worksheet

Span Profile

County: **NASH**

Structure Number: **630221**



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	53.667	51.750			
2	71.583	70.417			
3	66.083	64.916			
4	80.583	79.417			
5	50.500	48.583			

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 12/14/2018

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **630221**
 (8) STRUCTURE NUMBER(FEDERAL) 000000001270221
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31015440
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 2
 (3) COUNTY CODE 127 (4) PLACE CODE 0
 (6) FEATURE INTERSECTED - I95
 (7) FACILITY CARRIED SR1544
 (9) LOCATION 0.2 MI.W. NC48
 (11)MILEPOINT 0
 (16)LAT 36° 3' 40.39" (17)LONG 77° 49' 27.41"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 72.41
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Minor Collector 08
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE -
 (110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0
 (20) TOLL On Free Road 3
 (31) MAINTAIN - State Highway Agency 01
 (22) OWNER - State Highway Agency 01
 (37) HISTORICAL SIGNIFICANCE - Not Eligible 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
 TYPE - Stringer Mutlibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 5
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - 1 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - Concrete CODE 1
 (B) TYPE OF MEMBRANE - None CODE 0
 (C) TYPE OF DECK PROTECTION - None CODE 0

CONDITION **CODE**

(58) DECK 5
 (59) SUPERSTRUCTURE 6
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION N
 (62) CULVERTS N

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD H 15 2
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-30 54
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-18 32
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1966
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Overpass - Interchange
 UNDER - Highway CODE 61
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 5
 (29) AVERAGE DAILY TRAFFIC 1300
 (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6%
 (19) BYPASS OR DETOUR LENGTH 5 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES,VERTI & HORIZ 3
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 79 FT
 (49) STRUCTURE LENGTH 322 FT
 (50)CURB OR SIDEWALK: LEFT 1.083 FT RIGHT 1.083 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 24.167 FT
 (52) DECK WIDTH OUT TO OUT 28.833 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 25 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 33° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24.167 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Highway 17.083 FT
 (55) MIN LAT UNDERCLEAR RT REF Highway 7.5 FT
 (56) MIN LAT UNDERCLEAR LT REF - 26.5 FT

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114)FUTURE ADT 2600 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 09/19/2018
 (92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO A)
 B) UNDERWATER INSP - NO B)
 C) OTHER SPECIAL INSP NO C)
 SCOUR

NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
 (111)PIER PROTECTION - CODE
 (39) NAVIGATION VERTICAL CLEARANCE 0
 (116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
 (40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

Structure No: 630221

County: NASH

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1							
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I95S	11000950	16.58		1	10095		1	2	18000	2013	44.08	H	16.25	8.5	22.42	9	1	1	1
4	I 95 NBL	11000950	17.33		1	10095		1	3	18000	2013	55.92	H	17.08	7.5	26.5	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/14/2018

COUNTY : NASH DIVISION : 4 DISTRICT : 2 STRUCTURE NUMBER : 630221 LENGTH : 322 FEET

ROUTE CARRIED : SR1544 FEATURE INTERSECTED : I95

LOCATED : 0.2 MI.W. NC48 BRIDGE NAME : CITY :

FUNC. CLASS : 08 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 1300 2013 RAIL TYPE : LT 109 RT 109

BUILT : 1966 BY : SHC PROJ : 8.11618 FED.AID PROJ : DESIGN LOAD : H 15

REHAB : BY : PROJ : ALIGNMENT : RT. SKEW : 123 LANES : ON 2 UNDER 5

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 0 FT WATER DEPTH : 0 FT

SUPERSTRUCTURE : RC FLOOR/I-BEAMS

SUBSTRUCTURE : E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&B/PILE FTGS.

SPANS : 1@53'-8";1@71'-7";1@66'-10";1@80'-7";1@50'-6"

BEAMS OR GIRDERS : 4 LINES VARIOUS SIZED I-BEAMS @ 7'-0" CTS.

FLOOR : 7" RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 28.833 FT

CLEAR ROADWAY : 24.167 FT BETWEEN RAILS : 26.333 FT SIDEWALK OR CURB : LT 1.083 FT RT 1.083 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-18 OPE.RTG. : HS-30 CONTR.MEMBER : int.bmA POSTED : SV TTST DATE 04/05/1990

SYSTEM : Primary S.R. Route GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I95S	16.5830	16.25	44.0830	22.4170	8.50
4	I95 NBL	17.3330	17.0830	55.9170	26.50	7.50

Note: All measurements are in feet.

REMARKS :






BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 630221

County NASH

Date: 09/19/2018

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3326	Maintain Concrete Deck	SF	8	Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN.	
 3326	Maintain Concrete Deck	SF	1	Span 4 Deck: 18 IN X 6 IN DELAMINATION ON LEFT OVERHANG, 40 FT FROM BENT 3, OVER MIDDLE LANE.	
 3334	Bridge Bearings	EA	1	Span 1 Beam 3 Far Bearing: BROKEN OFF ANCHOR BOLT.	
 3348	Maintain Concrete Substructure Components	LF	2	Bent 1 Cap 1: 20" X 7" X 3" DEEP SPALL WITH EXPOSED ANCHOR NAIL FROM PREVIOUS REPAIR, EAST FACE OF SPAN 1 BEAM 3 SEAT, WITH 13" X 1" LOSS OF BEARING AREA.	
 3348	Maintain Concrete Substructure Components	LF	2	Bent 1 Cap 1: 14" X 6" X 2" DEEP SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT, WITH 6" X 1/2" LOSS OF BEARING AREA.	
3326	Maintain Concrete Deck	SF	4	Span 4 Deck: 2 FT X 2 FT DELAMINATED PATCHED AREA, LEFT OVERHANG, 25 FT FROM BENT 3.	
3326	Maintain Concrete Deck	SF	1	Span 4 Deck: 1 FT X 6 IN DELAMINATION ON LEFT OVERHANG, 30 FT FROM BENT 3 OVER LEFT LANE.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630221 County NASH

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	8 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
09/19/2018	MICHAEL R. MEYER	
Details		
Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN.		

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Span 4 Deck: 18 IN X 6 IN DELAMINATION ON LEFT OVERHANG, 40 FT FROM BENT 3, OVER MIDDLE LANE.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630221 County NASH

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Span 1 Beam 3 Far Bearing: BROKEN OFF ANCHOR BOLT.		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Bent 1 Cap 1: 20" X 7" X 3" DEEP SPALL WITH EXPOSED ANCHOR NAIL FROM PREVIOUS REPAIR, EAST FACE OF SPAN 1 BEAM 3 SEAT, WITH 13" X 1" LOSS OF BEARING AREA.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630221 County NASH

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Bent 1 Cap 1: 14" X 6" X 2" DEEP SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT, WITH 6" X 1/2" LOSS OF BEARING AREA.		

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Span 4 Deck: 2 FT X 2 FT DELAMINATED PATCHED AREA, LEFT OVERHANG, 25 FT FROM BENT 3.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 630221 County NASH

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
11/08/2018	MICHAEL R. MEYER	
Details		
Span 4 Deck: 1 FT X 6 IN DELAMINATION ON LEFT OVERHANG, 30 FT FROM BENT 3 OVER LEFT LANE.		

Bridge Inspection Field Sketch



MEASURED 20 FT WEST OF END BENT 1

Roadway	22ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5.5ft Wide	1.5ft Paved	4ft Unpaved
Right Shoulder	4ft Wide	1ft Paved	3ft Unpaved
Left Guardrail	3.5ft from road		
Right Guardrail	2ft from road		

VERIFIED BY MRM, 9/19/2018

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

Bridge No: 630221

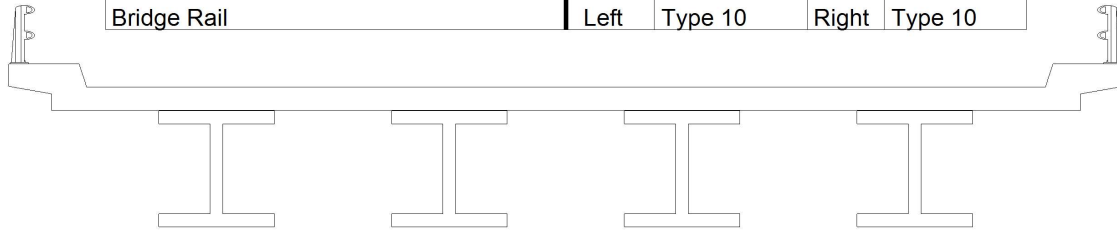
Drawn By: VMH

Date: 10/02/2008

File Name: S0026002771

Bridge Inspection Field Sketch

Deck Width/Out to Out	28.833ft	Between Rails	26.333ft
Clear Roadway	24.167ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.75ft
		Right	0.75ft
Sidewalk Width		Left	1ft
		Right	1ft
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	0.396ft
		Right	0.396ft
Top of Rail to Deck/Wearing Surface		Left	3.0ft
		Right	3.0ft
Bridge Rail		Left	Type 10
		Right	Type 10



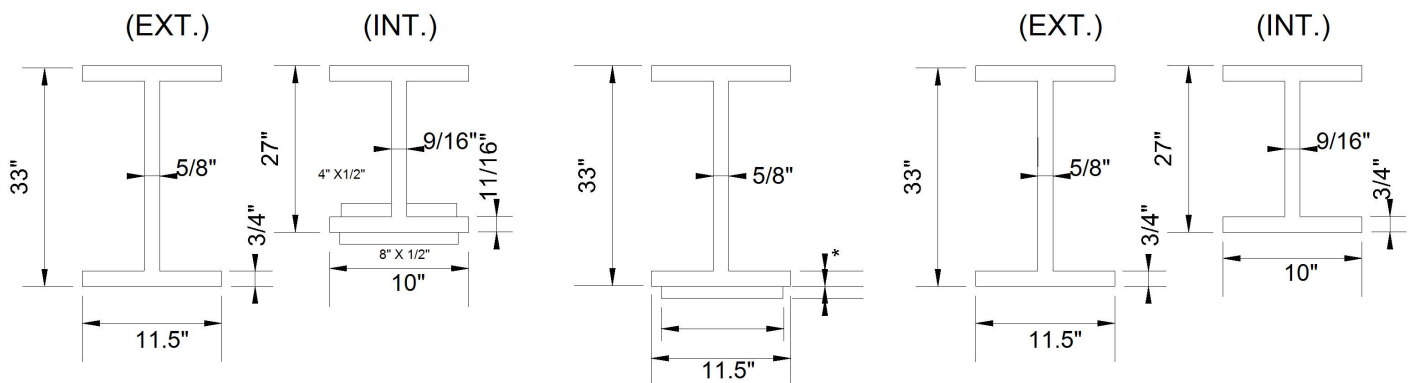
Measurements for Span #	1		
Deck Thickness	.583	Left Overhang	3.916
Top of Rail to Bottom of Beam	6.146	Right Overhang	3.916

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	7.000ft	SPNS 1
2	Steel I Beam	7.000ft	
3	Steel I Beam	7.000ft	
4	Steel I Beam	ft	

SPAN 1

SPAN 2, 3, 4

SPAN 5



* 3/4 IN SPAN 3, 13/16" IN 2 & 4

MODIFIED BY MRM, 9/19/2018

Title

TYPICAL SECTION

Description

TYPICAL SECTION

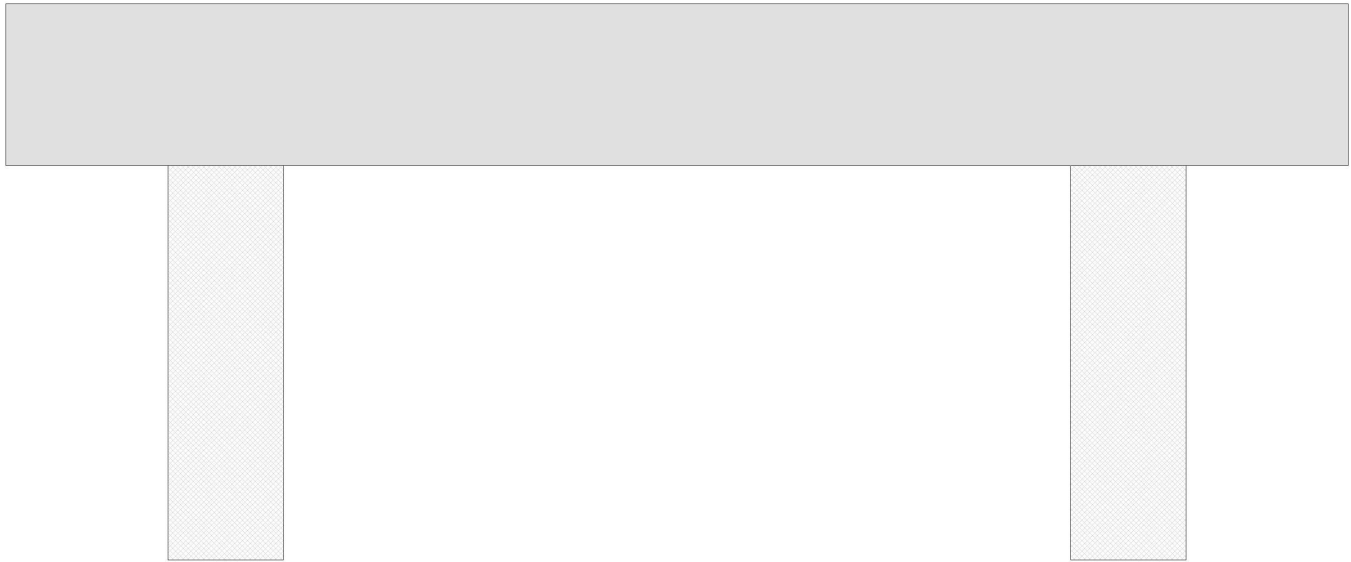
Bridge No: 630221

Drawn By: VMH

Date: 10/02/2008

File Name: S0026002772

Bridge Inspection Field Sketch

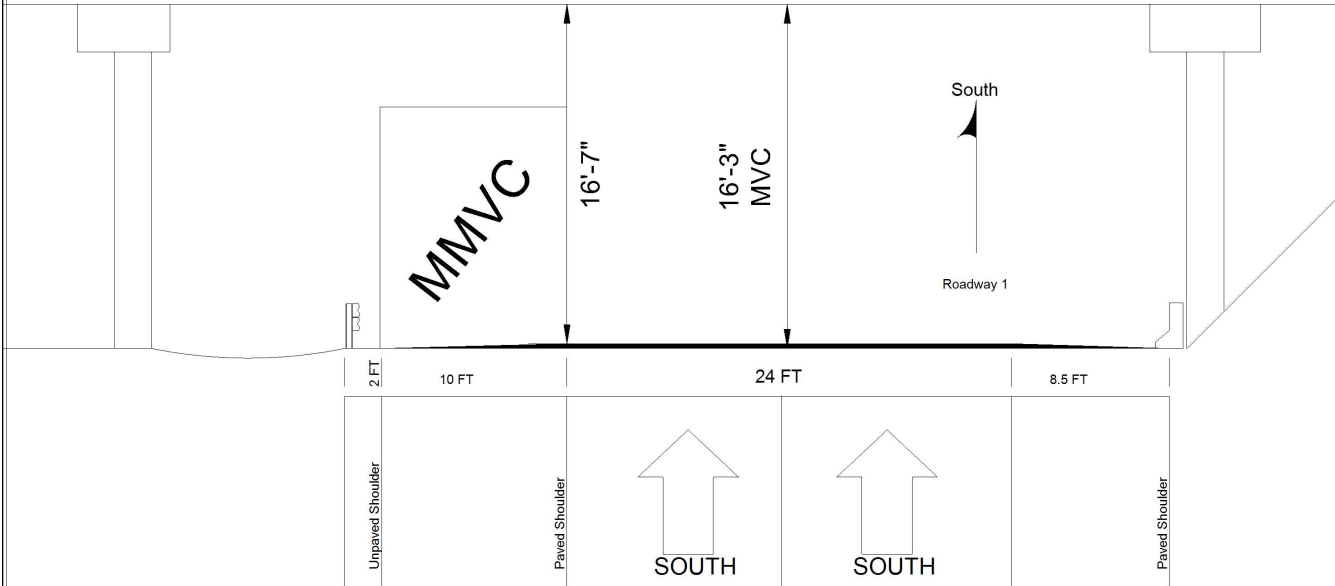


Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
29.000 ft.	2.500 ft.	2.500 ft.	4.750 ft.	4.750 ft.	2.000 ft.	2.000 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	19.5 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
2	Concrete		2.5 ft.	2.5 ft.		Vertical	No	No	No	No
MODIFIED BY MRM, 9/19/2018										
Bent/Abutment #: 1			Similar Bents: Bents 2, 3, 4							

Title SUBSTRUCTURE			Description BENT 1			
Bridge No: 630221	Drawn By: VMH	Date: 9/21/10	File Name: S0022001303			

Bridge Inspection Field Sketch

BEAM 4 SPAN 2



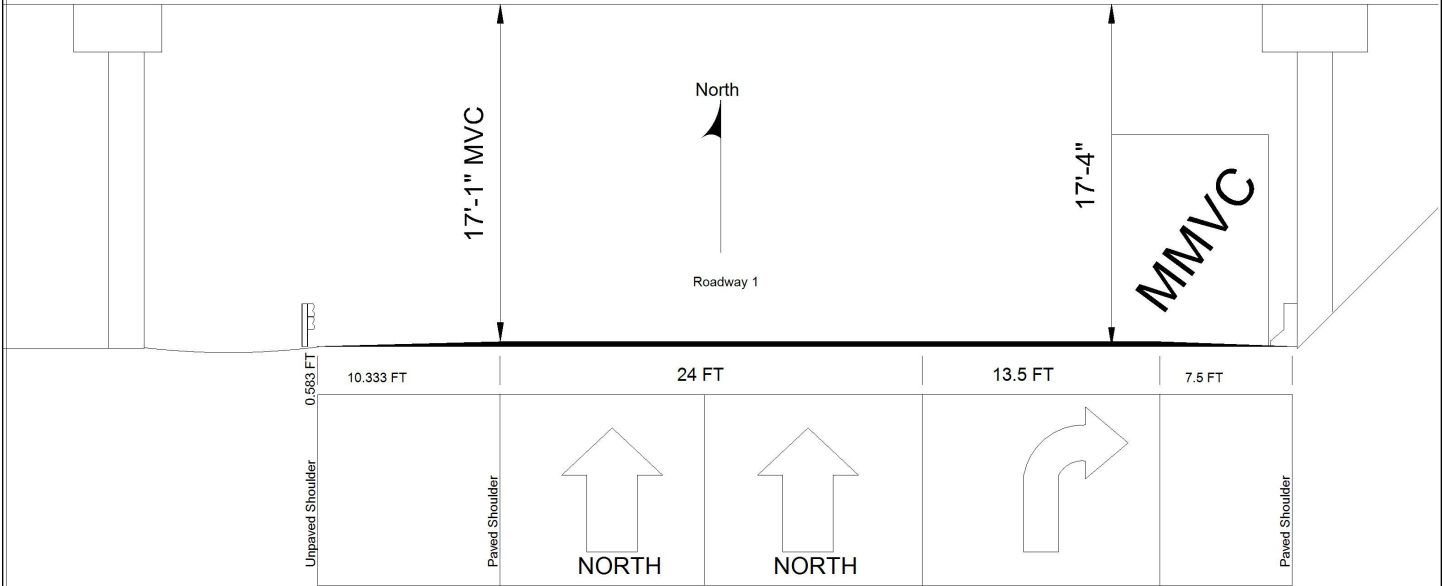
Roadway 1	Distance to Left Guardrail 11.583 FT
	Distance to Right Guardrail 8.5 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 22.417 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 9.917 FT
	Maximum Minimum Vertical Clearance 16.583 FT. Measured AT LEFT EDGE on Beam No 4
	Minimum Vertical Clearance 16.25 FT. Measured AT CENTERLINE on Beam No 4

VERIFIED BY MRM, 9/19/2018

Title SBL CLEARANCES		Description SBL CLEARANCES	
Bridge No: 630221	Drawn By: VMH	Date: 10/02/2008	File Name: S0026002774

Bridge Inspection Field Sketch

BEAM 4 SPAN 4



Roadway 1	Distance to Left Guardrail 10.917 FT
	Distance to Right Guardrail 7.5 FT
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 26.5 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 8.833 FT
	Maximum Minimum Vertical Clearance 17.333 FT. Measured 3 FT. From RIGHT EDGE on Beam No 4
Minimum Vertical Clearance 17.083 FT. Measured AT LEFT EDGE on Beam No 4	

VERIFIED BY MRM, 9/19/2018

Title NBL CLEARANCES		Description NBL CLEARANCES	
Bridge No: 630221	Drawn By: VMH	Date: 9/21/10	File Name: S0026002773

Bridge Inspection Field Sketch

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VERIFIED PEP:9/13/16

Title	Description
BEAM 2 BUILDUP	CONDITIONS
Bridge No: 630221	Drawn By: WCM
Date:9/26/2012	File Name:S0026002775