



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: Priority Maintenance; Approach Roadway, Typical Section Sketch Modified

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: JOHNSTON STRUCTURE NUMBER: 500066 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US70 BUS. MILE POST: _____

LOCATION: 0.4 M.I.E. JCT. SR2560

FEATURE INTERSECTED: I95

LATITUDE: 35° 30' 14.64" LONGITUDE: 78° 19' 15.26"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE: END & INTERIOR BENTS:RC CAPS ON PPC PILES

SPANS: 1@50'-0", 2@63'-0", 1@50'-0" SIMPLE

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 07/05/2017

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 Jonathan M Simpson	SIGNATURE <i>Jonathan M. Simpson</i>	ASSISTED BY Cesar O Cuevas
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Structure Element Scoring

Structure Number: **500066**

Inspection Date 7/5/2017

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	6726	6506	218	2	0
107	0	Steel Open Girder/Beam	Beam	904	809	55	40	0
515	107	Steel Protective Coating	Beam	7900	7890	9	1	0
205	0	Reinforced Concrete Column	Piles and Columns	14	14	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	110	41	37	32	0
227	0	Reinforced Concrete Pile	Piles and Columns	18	8	5	5	0
234	0	Reinforced Concrete Pier Cap	Caps	192	75	35	82	0
301	0	Pourable Joint Seal	Expansion Joints	185	0	0	185	0
313	0	Fixed Bearing	Bearing Device	8	4	4	0	0
515	313	Steel Protective Coating	Bearing Device	12	8	4	0	0
316	0	Other Bearings	Bearing Device	24	24	0	0	0
515	316	Steel Protective Coating	Bearing Device	368	368	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	870	870	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	452	328	113	11	0
510	0	Wearing Surface	Wearing Surfaces	6328	5793	40	495	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **500066**

Inspection Date: **07/05/2017**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	2 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	218 Square Feet
3314	Steel Open Girder/Beam	Damage	46 Feet
3314	Steel Open Girder/Beam	Corrosion	1 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	151 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	4 Feet
3348	Reinforced Concrete Pile	Patched Area	4 Each
3348	Reinforced Concrete Pile	Delamination/Spall	27 Each
3348	Reinforced Concrete Pile	Cracking (RC and Other)	66 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	175 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	32 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	42 Feet
3310	Pourable Joint Seal	Debris Impaction	185 Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	1 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	7 Feet
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	1 Feet
3318	Reinforced Concrete Bridge Railing	Damage	3 Feet
2816	Wearing Surface	Crack (Wearing Surface)	453 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	78 Square Feet
2816	Wearing Surface	Delamination/Spall (Wearing Surfaces)	4 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	14 Square Feet

Element Structure Maintenance Quantities

Structure Number: **500066**

Inspection Date **07/05/2017**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	155	110	0	32	37	41
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	870	0	0	0	870
Beam	3314	Maintenance Steel Superstructure Components	47	904	0	40	55	809
Beam	3342	Clean and Paint Steel	10	7900	0	1	9	7890
Bearing Device	3334	Bridge Bearing	0	32	0	0	4	28
Bearing Device	3342	Clean and Paint Steel	4	380	0	0	4	376
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	12	452	0	11	113	328
Caps	3348	Maintenance of Concrete Substructure	249	192	0	82	35	75
Deck	3326	Maintenance of Concrete Deck	220	6726	0	2	218	6506
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	185	185	0	185	0	0
Piles and Columns	3348	Maintenance of Concrete Substructure	97	32	0	5	5	22
Wearing Surfaces	2816	Asphalt Surface Repair	535	6328	0	495	40	5793

Element Condition and Maintenance Data

Structure Number: 500066

Inspection Date: 07/05/2017

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,488	1,448	40	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	(4) 2' hairline transverse cracks in North overhang (South overhang similar)	2	16	16 Square Feet
12	Cracking (RC and Other)	12' x 2' area of hairline longitudinal and transverse cracks in North overhang (South overhang similar)	2	24	24 Square Feet

General Comments

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	43	0	7	0 Feet
515	Steel Protective Coating	456	456	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	7' x 10" area of patched area with 1/16" horizontal crack in Bent 1 diaphragm of Bay 2	3	7	7 Feet

General Comments

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	41	0	9	0 Feet
515	Steel Protective Coating	456	456	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	13" x 8" x 2" deep spall with exposed rebar in Bent 1 diaphragm of Bay 3	3	2	2 Feet
107	Damage	7' x 17" area of patch with up to 1/16" horizontal crack in Bent 1 diaphragm at Bay 3	3	7	7 Feet

General Comments

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,400	1,273	0	127	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	34 square feet up to 1/16" transverse cracks at End Bent 1	3	34	34 Square Feet
510	Crack (Wearing Surface)	90 square feet up to 1/16" longitudinal and transverse cracks	3	90	90 Square Feet
510	Patched Area/Pothole (Wearing Surface)	8" x 50" area of patch with 1/16" transverse cracks in Eastbound lane at End Bent 1	3	3	3 Square Feet

General Comments**Span 1 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	37	13	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	(12) hairline vertical and transverse cracks in curb and rail	2	12	Feet
331	Damage	3" rotation to the North	2	1	Feet

General Comments**Span 1 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	29	17	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	10" up to 1/8" longitudinal crack on top of Post 5	3	1	1 Feet
331	Delamination/Spall	1" x 11" x 6" deep spall on Post 3	3	1	1 Feet
331	Delamination/Spall	3" x 16" x 11" deep spall in rail and Post 2	3	1	1 Feet
331	Patched Area	7" x 11" area of patch with transverse cracks on Post 2	3	1	Square Feet
331	Cracking (RC and Other)	(16) hairline vertical and transverse cracks in curb and rail	2	16	Feet
331	Damage	3" rotation to the North	2	1	1 Feet

General Comments**Span 1 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	37	0	0	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Debris Impaction	Full length asphalt wearing surface covering joint	3	37	37 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	1,875	1,823	52	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	(5) up to 2' hairline transverse cracks on North overhang (South overhang similar)	2	20	20 Square Feet

12 Cracking (RC and Other) 32 square feet hairline transverse cracks in bottom of deck 2 32 32 Square Feet

General Comments**Span 2 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	61	0	2	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	14" x 3" x 3" deep spall with exposed rebar in Bent 1 diaphragm at Bay 1	3	2	3 Feet

General Comments**Span 2 Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	60	0	3	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	36" x 4" x 3" deep spall with exposed rebar in Bent 1 diaphragm of Bay 2	3	3	3 Feet

General Comments**Span 2 Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	59	0	4	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	16" x 4" x 4" deep spall with exposed rebar in Bent 2 diaphragm of Bay 3	3	2	2 Feet
107	Damage	28" x 6" x 4" deep spall with exposed rebar on Bent 1 diaphragm in Bay 2	3	2	2 Feet

General Comments**Span 2 Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	61	0	2	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	18" x 3" x 3" deep spall with exposed rebar on Bent 2	3	2	2 Feet

diaphragm in Bay 3

General Comments**Span 2 Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,764	1,592	0	172	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	150 square feet up to 1/16" longitudinal and transverse cracks	3	150	150 Square Feet
510	Crack (Wearing Surface)	22 square feet up to 1/2" transverse cracks at Bent 1	3	22	22 Square Feet

General Comments**Span 2 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	63	48	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	(15) hairline vertical and transverse cracks in curb and rail	2	15	Feet

General Comments**Span 2 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	63	47	15	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Delamination/Spall	3" x 5" x 2" deep spall on Post 6	3	1	1 Feet
331	Cracking (RC and Other)	(15) hairline vertical and transverse cracks in curb and rail	2	15	Feet

General Comments**Span 2 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	37	0	0	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Debris Impaction	Full length asphalt wearing surface covering joint	3	37	37 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	1,875	1,827	46	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	16" x 20" x 1 1/2" deep spall on North overhang at Bent 3	3	2	2 Square Feet
12	Cracking (RC and Other)	40 square feet hairline transverse cracks with efflorescence in bottom of deck	2	40	40 Square Feet
12	Cracking (RC and Other)	6' hairline longitudinal and diagonal cracks with efflorescence in South overhang at Bent 3	2	6	6 Square Feet

General Comments**Span 3 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	37	20	6	0 Feet
515	Steel Protective Coating	530	526	4	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	24" x 4" x 3" spall with exposed rebar in Bent 3 diaphragm of Bay 3	3	2	2 Feet
107	Damage	42" x 6" area of patch with 1/16" horizontal crack in Bent 2 diaphragm of Bay 2	3	4	4 Feet
107	Corrosion	20' surface rust on top flange	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	4	4 Square Feet

General Comments**Span 3 Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	57	0	6	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	6' x 8" area of patch with up to 1/16" horizontal crack in Bent 2 diaphragm of Bay 2	3	6	6 Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	63	61	2	0	0 Feet
515	Steel Protective Coating	530	530	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	2' x 2" area of sound patch in Bent 3 diaphragm of Bay 2	2	2	2 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	63	36	27	0	0 Feet
515	Steel Protective Coating	530	525	5	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	25' surface rust on both flanges	2	25	Feet
107	Damage	(2) scrapes on bottom flange over Northbound lane	2	2	2 Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	5	5 Square Feet

General Comments**Span 3 Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,764	1,609	0	155	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	95 square feet up to 1/16" longitudinal and transverse cracks	3	95	95 Square Feet
510	Patched Area/Pothole (Wearing Surface)	15' x 4' area of patch with (2) up to 8" x 12" x 2" deep spalls in Eastbound lane at Bent 3	3	60	60 Square Feet

General Comments**Span 3 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	63	30	32	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Delamination/Spall	3" x 10" x 4" deep spall on Post 12 connection bracket	3	1	1 Feet
331	Cracking (RC and Other)	(11) hairline vertical and transverse cracks in curb and rail	2	11	Feet
331	Damage	2 1/2" rotation to the North	2	1	1 Feet
331	Efflorescence/Rust Staining	13' hairline longitudinal cracks in curb	2	13	Feet
331	Patched Area	7' x 2' area of repaired section of curb at Bent 3	2	7	Square Feet

General Comments

Span 3 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	63	54	7	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Delamination/Spall	20" x 22" x 1" deep spall in curb at Bent 3	3	2	2 Feet
331	Cracking (RC and Other)	(6) hairline vertical and transverse cracks in curb and rail	2	6	Feet
331	Damage	2 1/2" rotation to the North	2	1	1 Feet

General Comments**Span 3 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	37	0	0	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Debris Impaction	Full length asphalt wearing surface covering joint	3	37	37 Feet

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	1,488	1,408	80	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	(6) 2' hairline transverse cracks in North overhang (South overhang similar)	2	24	24 Square Feet
12	Cracking (RC and Other)	56 square feet hairline transverse cracks with efflorescence in bottom of deck	2	56	56 Square Feet

General Comments**Span 4 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	45	4	1	0 Feet
515	Steel Protective Coating	458	457	0	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	8" x 8" area of 1/4" section loss (11/16" remaining) on left side of bottom flange at End Bent 2 (PM)	3	1	1 Feet
107	Corrosion	42" up to 1/16" pitting with no rust on bottom flange at Bent 3	2	4	Feet
515	Effectiveness (Steel Protective Coatings)	Limited effectiveness	3	1	1 Square Feet

General Comments

Span 4 **Beam 3**
Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	48	2	0	0 Feet
515	Steel Protective Coating	458	458	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	18" x 5" x 2" deep spall with exposed rebar on Bent 3 diaphragm in Bay 3	2	2	2 Feet

General Comments

Span 4 **Wearing Surface**
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,400	1,319	40	41	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	22 square feet up to 1/4" transverse cracks at End Bent 2	3	22	22 Square Feet
510	Delamination/Spall (Wearing Surfaces)	(2) up to 29" x 8" x 3" deep area of missing asphalt wearing surface at End Bent 2	3	4	4 Square Feet
510	Patched Area/Pothole (Wearing Surface)	(4) up to 40" x 13" area of patches with 1/16" transverse cracks at End Bent 2	3	15	15 Square Feet
510	Crack (Wearing Surface)	40 square feet hairline longitudinal and transverse cracks	2	40	40 Square Feet

General Comments

Span 4 **Left Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	37	11	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Delamination/Spall	3" x 13" x 9" deep spall with exposed rebar on Post 7	3	1	Feet
331	Delamination/Spall	5" x 15" x 3" deep spall on end post	3	1	1 Feet
331	Cracking (RC and Other)	(11) hairline vertical and transverse cracks in curb and rail	2	11	Feet

General Comments

Span 4 **Right Bridge Rail**
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	50	46	3	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Exposed Rebar	2" x 12" x 9" deep spall with exposed rebar on Post 7	3	1	1 Feet
331	Cracking (RC and Other)	(3) hairline vertical and transverse cracks in curb and rail	2	3	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	3	2	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	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	3	2	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	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	3	2	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	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	3	2	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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313	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments**Span 4 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	37	0	0	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Debris Impaction	Full length asphalt wearing surface covering joint	3	37	37 Feet

General Comments**Span 4 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	37	0	0	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Debris Impaction	Full length asphalt wearing surface covering joint	3	37	37 Feet

General Comments**End Bent 1 Reinforced Concrete Abutment 1****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	55	30	25	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	(2) 2' hairline horizontal cracks at South end	2	2	4 Feet
215	Cracking (RC and Other)	(3) up to 2' hairline vertical cracks at South end (North end similar)	2	6	12 Feet
215	Cracking (RC and Other)	(4) 2' hairline vertical cracks in Bay 3 (Bays 1 and 2 similar)	2	12	24 Feet
215	Cracking (RC and Other)	5' hairline horizontal crack in Bay 1	2	5	5 Feet

General Comments**Bent 2 Reinforced Concrete Pier 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	34	5	2	27	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	8' up to 1/8" transverse crack on bottom of cap between Columns 4 and 6	3	8	8 Feet
234	Delamination/Spall	14" x 6" x 1" deep spall on bottom of cap between Columns 4	3	2	2 Feet

		and 5				
234	Patched Area	12' x 8" area of patch with 1/16" vertical, longitudinal and transverse cracks on Span 2 face at South end	3	12	12	Feet
234	Patched Area	14" x 20" area of patch with hairline vertical and horizontal cracks on Span 1 face under Bay 2	3	2	2	Feet
234	Patched Area	30" x 8" area of patch with hairline vertical and horizontal cracks on Span 2 face under Bay 2	3	3	3	Feet
234	Cracking (RC and Other)	16" x 8" area of hairline vertical and horizontal cracks on South face	2	2	2	Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Delamination/Spall	7" x 8" x 1/2" deep spall on Span 2 face	3	1	1 Each

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	3" x 2" x 1/2" deep spall on North face	2	1	1 Each

General Comments**Bent 2 Reinforced Concrete Pile 6****Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	66" up to 1/16" vertical crack on Span 2 face	3	1	6 Each
227	Patched Area	2' x 2' area of patch with 1/8" vertical and horizontal cracks on North face	3		2 Each
227	Cracking (RC and Other)	20" hairline vertical crack on South face	2		2 Each

General Comments

Bent 2 Reinforced Concrete Pile 2**Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	5" x 4" x 1" deep spall on South face	2	1	1 Each

General Comments**Bent 2 Reinforced Concrete Pier 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	34	0	0	34	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	(2) up to 34' long 1/16" horizontal cracks on Span 2 face	3	29	64 Feet
234	Patched Area	2' x 18" area of patch with hairline horizontal cracks on South face	3	2	2 Feet
234	Patched Area	3' x 10" area of patch with hairline vertical, transverse, longitudinal cracks on Span 3 face at South end	3	3	3 Feet
234	Cracking (RC and Other)	2' hairline transverse crack on bottom of cap at South end	2		2 Feet
234	Cracking (RC and Other)	3' hairline horizontal crack on Span 3 face under Bay 1	2		3 Feet
234	Delamination/Spall	10" x 10" area of delamination on Span 2 face under Bay 2	2		1 Feet
234	Delamination/Spall	55" x 20" area of delamination on bottom of cap between Columns 4 and 5	2		5 Feet

General Comments**End Bent 2 Reinforced Concrete Pier 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	45	25	14	6	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	67" x 12" x 7" deep spall with exposed rebar under Bay 1 (PM)	3	6	6 Feet
234	Cracking (RC and Other)	(5) up to 2' hairline vertical and longitudinal cracks under Bay 2	2	5	5 Feet
234	Cracking (RC and Other)	22" hairline vertical and longitudinal crack on Beam 2 pedestal	2	1	1 Feet
234	Cracking (RC and Other)	5' x 4' area of hairline longitudinal and transverse cracks on top of cap at North end	2	5	5 Feet
234	Delamination/Spall	28" x 10" area of delamination under Bay 3	2	3	3 Feet

General Comments

End Bent 2**Reinforced Concrete Abutment 1****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	55	11	12	32	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	10' x 3' area of 1/16" vertical and horizontal cracks in Bay 1 (Bays 2 and 3 similar)	3	30	90 Feet
215	Delamination/Spall	11" x 3" x 3" deep spall in Bay 1 adjacent to Beam 1 (South end adjacent to Beam 4 similar)	3	2	2 Feet
215	Cracking (RC and Other)	10" hairline diagonal crack with rust stains at North end	2	1	1 Feet
215	Cracking (RC and Other)	3' x 3' area of hairline vertical and horizontal cracks at South end	2	3	9 Feet
215	Cracking (RC and Other)	6' x 1' area of hairline vertical and horizontal cracks at North end	2	6	6 Feet
215	Delamination/Spall	5" x 5" x 1" deep spall at North end	2	1	1 Feet
215	Delamination/Spall	7" x 3" area of delamination at North end adjacent to Beam 1	2	1	1 Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	(3) up to 35" hairline horizontal cracks on Span 4 face	2	1	3 Each

General Comments**Bent 3****Reinforced Concrete Pile 6****Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	55" x 21" area of delamination with 12' up to 1/16" vertical cracks on Span 3 face	3	1	12 Each
227	Cracking (RC and Other)	12' hairline vertical cracks on Span 4 face	2		12 Each

General Comments**Bent 3****Reinforced Concrete Pile 2****Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	4' x 1' area of delamination with 7' up to 1/16" vertical crack on North face	3	1	7 Each

Structure Number: **500066**Inspection Date: **07/05/2017**

227	Cracking (RC and Other)	9" hairline vertical crack on Span 4 face	2	1	Each
227	Delamination/Spall	(3) up to 4" x 8" x 1/2" deep spalls on Span 3 face	2	1	Each

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	7' hairline vertical crack on Span 3 face	2		7 Each
227	Delamination/Spall	(9) up to 30" x 5" x 1/2" deep spalls on Span 3 face	2	1	23 Each

General Comments**Bent 3 Reinforced Concrete Pile 4****Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Delamination/Spall	6" x 4" x 1/2" deep spall on Span 3 face	2	1	1 Each

General Comments**Bent 3 Reinforced Concrete Pile 5****Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Cracking (RC and Other)	(2) up to 7' up to 1/16" vertical crack on Span 3 face	3	1	14 Each
227	Patched Area	2' x 1' area of patch with hairline vertical cracks on Span 4 face	3		2 Each
227	Delamination/Spall	6" x 5" x 1" deep spall on Span 3 face	2		1 Each

General Comments**Bent 3 Reinforced Concrete Pier 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	34	0	19	15	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	5' x 2' area of delamination with 9" x 3" x 2" deep spall on Span 4 face under Bay 3	3	5	5 Feet
234	Patched Area	10' x 30" area of patch with 1/16" vertical and horizontal cracks on Span 4 face under Bay 3 and South end	3	10	10 Feet

Structure Number: **500066**

Inspection Date: **07/05/2017**

234	Cracking (RC and Other)	24' x 2' area of hairline horizontal, vertical and diagonal cracks on Span 4 face (Span 3 face similar)	2	19	48 Feet
234	Cracking (RC and Other)	34' x up to 3' area of hairline longitudinal and transverse cracks on bottom of cap	2		34 Feet
234	Cracking (RC and Other)	36" x 30" area of hairline vertical and horizontal cracks on North face	2		3 Feet
234	Delamination/Spall	16" x 12" area of delamination on Span 3 face under Beam 1	2		2 Feet
234	Delamination/Spall	2' x 1' area of delamination on Span 4 face under beam 3 (Span 3 face similar)	2		4 Feet
234	Delamination/Spall	7' x 1' area of delamination on Span 4 face under Bay 1 (Span 3 face similar)	2		14 Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1488
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 1	Expansion Joint	Standard Joint	Pourable Joint Seal	37
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1875
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	63
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	63
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	63
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	63
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	63
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	63
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	37
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1764
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1875
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	63
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	63
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	63
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	63
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	63
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	63
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	37
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1764
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1488
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	50
Span 4	Expansion Joint	Standard Joint	Pourable Joint Seal	37
Span 4	Expansion Joint	Standard Joint	Pourable Joint Seal	37
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1400
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
End Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	45
End Bent 1		Reinforced Concrete Abutment	Reinforced Concrete Abutment	55
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 2		Reinforced Concrete Pile	Reinforced Concrete Pile	1
End Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	45
End Bent 2		Reinforced Concrete Abutment	Reinforced Concrete Abutment	55
Bent 3		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	34
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1

Elements Verified

Location	Name	Component	Element Name	Amount
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 3		Reinforced Concrete Pile	Reinforced Concrete Pile	1

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 500066

Inspection Date: 07/05/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
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	7100	3376
Drainage System	G, F, P, or C	F	5	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	F	3	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	15		
Superstructure Paint Code		I		

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	5
Traffic Control Time	Hours	
Snooper Time	Hours	
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: 500066

Inspection Date: 07/05/2017

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	7100
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Details Full length x 15" dirt and debris in North gutter (South gutter similar)

Item	Drainage System	Grade	F	Maint Code	3332	Qty.	5
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Details (1) clogged deck drain in North gutter

(4) clogged deck drain in South gutter

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	3
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Details (2) up to 20" x 9" x 20" deep erosion behind Northwest wingwall



Full length x 15" dirt and debris in North gutter (South gutter similar)



(2) up to 20" x 9" x 20" deep erosion behind Northwest wingwall



Span 1 Wearing Surface: 34 square feet up to 1/16" transverse cracks at End Bent 1



Span 1 Wearing Surface: 8" x 50" area of patch with 1/16" transverse cracks in Eastbound lane at End Bent 1



Span 1 Wearing Surface: 90 square feet up to 1/16" longitudinal and transverse cracks



Span 1 Right Bridge Rail: 3" x 16" x 11" deep spall in rail and Post 2



Span 1 Left Bridge Rail: 3" rotation to the North



Span 1 Deck: 12' x 2' area of hairline longitudinal and transverse cracks in North overhang (South overhang similar)



Span 3 Right Bridge Rail: 20" x 22" x 1" deep spall on curb at Bent 3



Span 3 Left Bridge Rail: 7' x 2' area of repaired section of curb at Bent 3



Span 3 Left Bridge Rail: 3" x 10" x 4" deep spall on Post 12 connection bracket



Span 3 Deck: 16" x 20" x 1 1/2" deep spall on North overhang at Bent 3



Span 3 Deck: 6' hairline longitudinal and diagonal cracks with efflorescence in South overhang at Bent 3



Span 3 Beam 4: 25' surface rust on both flanges



Span 4 Beam 1 Far Bearing: Surface rust



Span 4 Wearing Surface: (2) up to 29" x 8" x 3" deep area of missing asphalt wearing surface at End Bent 2



Span 4 Deck: 56 square feet hairline transverse cracks with efflorescence in bottom of deck



Span 4 Beam 1: 8" x 8" area of 1/4" section loss (11/16" remaining) on left side of bottom flange at End Bent 2 (PM)



Span 4 Beam 1: 42" up to 1/16" pitting with no rust on bottom flange at Bent 3



End Bent 1 Abutment/Backwall : 5' hairline horizontal crack in Bay 1



Bent 2 Pile 6: 2' x 2' area of patch with 1/8" vertical and horizontal cracks on North face



Bent 3 Cap 1: 7' x 1' area of delamination on Span 4 face under Bay 1 (Span 3 face similar)



Bent 3 Cap 1: 34' x up to 3' area of hairline longitudinal and transverse cracks on bottom of cap



Bent 3 Pile 1: (3) up to 35" hairline horizontal cracks on Span 4 face



Bent 3 Pile 2: 4' x 1' area of delamination with 7' up to 1/16" vertical crack on North face



End Bent 2 Cap 1: 5' x 4' area of hairline longitudinal and transverse cracks on top of cap at North end



End Bent 2 Cap 1: 67" x 12" x 7" deep spall with exposed rebar under Bay 1 (PM)



End Bent 2 Cap 1: 22" hairline vertical and longitudinal crack on Beam 2 pedestal



End Bent 2 Cap 1: 28" x 10" area of delamination under Bay 3



Span 1 Right Bridge Rail: 10" up to 1/8" longitudinal crack on top of Post 5



Span 3 Wearing Surface: 15' x 4' area of patch with (2) up to 8" x 12" x 2" deep spalls in Eastbound lane at Bent 3



Span 4 Beam 3: 18" x 5" x 2" deep spall with exposed rebar on Bent 3 diaphragm in Bay 3



Looking West



Northeast guardrail attachment (All others similar)



South bridge rail (North bridge rail similar)



Looking South



Looking North



Looking East



Bent 1 joint (Bents 2 and 3 similar)



Bridge plaque at Southwest corner (Northeast corner similar)



Northeast wingwall (All others similar)



End Bent 1 (End Bent 2 similar)



End Bent bearing (Beam 4, End Bent 1 shown)



Intermediate diaphragm



Bent bearing (Beam 2, Bent 3 shown)



Bent 3 (Bent 2 similar)



North profile, looking South



South profile, looking North



Underside of superstructure (Span 3 shown)



Bent 1

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

Run Date: 03/09/2018

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **500066**
 (8) STRUCTURE NUMBER(FEDERAL) 000000001010066
 (5) INVENTORY ROUTE (ON/UNDER) - ON 26000700
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 3
 (3) COUNTY CODE 101 (4) PLACE CODE 62520
 (6) FEATURE INTERSECTED - I95
 (7) FACILITY CARRIED US70 BUS.
 (9) LOCATION 0.4 M.I.E. JCT. SR2560
 (11)MILEPOINT 0
 (16)LAT 35° 30' 14.64" (17)LONG 78° 19' 15.26"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 79
 STATUS = Functionally Obsolete

CLASSIFICATION **CODE**

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is on the NHS 1
 (26) FUNCTIONAL CLASS - Minor Arterial 16
 (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 4
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - 1 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - CODE
 (B) TYPE OF MEMBRANE - CODE
 (C) TYPE OF DECK PROTECTION - CODE

CONDITION **CODE**

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

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 20 + MOD 6
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-42 75
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-25 45
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1955
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Overpass - Interchange
 UNDER - Highway CODE 61
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 4
 (29) AVERAGE DAILY TRAFFIC 9900
 (30) YEAR OF ADT 2015 (109) TRUCK ADT PCT 6%
 (19) BYPASS OR DETOUR LENGTH 0 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 0111
 (113)SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 62 FT
 (49) STRUCTURE LENGTH 226 FT
 (50)CURB OR SIDEWALK: LEFT 1.625 FT RIGHT 1.625 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
 (52) DECK WIDTH OUT TO OUT 33.167 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 30 FT
 (33) BRIDGE MEDIAN - No Median CODE 0
 (34) SKEW 37° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Highway 16.416 FT
 (55) MIN LAT UNDERCLEAR RT REF Highway 8 FT
 (56) MIN LAT UNDERCLEAR LT REF - 13.166 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 19800 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 07/05/2017
 (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: 500066

County: JOHNSTON

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner 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	16.67	0	1	10095		11	2	18500	2015	44.5	H	16.58	9.5	11	9	1	1	1
3	I95N	11000950	16.5	0	1	10095		11	2	18500	2015	45.17	H	16.42	8	13.17	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: 03/09/2018

COUNTY : JOHNSTON DIVISION : 4 DISTRICT : 3 STRUCTURE NUMBER : 500066 LENGTH : 226 FEET

ROUTE CARRIED : US70 BUS. FEATURE INTERSECTED : I95

LOCATED : 0.4 MI.E. JCT. SR2560 BRIDGE NAME : CITY : SMITHFIELD

FUNC. CLASS : 16 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 9900 2015 RAIL TYPE : LT 141 RT 141

BUILT : 1955 BY : SHC PROJ : 2336 FED.AID PROJ : DESIGN LOAD : HS 20 + MOD

REHAB : BY : DOH PROJ : ALIGNMENT : TAN SKEW : 127 LANES : ON 2 UNDER 4

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

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : END & INTERIOR BENTS:RC CAPS ON PPC PILES

SPANS : 1@50'-0", 2@63'-0", 1@50'-0" SIMPLE

BEAMS OR GIRDERS : 4 LINES OF W33X141 I-BEAMS @ 8'-0" CENTERS

FLOOR : 6.5"RC/5. 75"AWS ENCROACHMENT : DECK (OUT TO OUT) : 33.167 FT

CLEAR ROADWAY : 28 FT BETWEEN RAILS : 31.25 FT SIDEWALK OR CURB : LT 1.625 FT RT 1.625 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-25 OPE.RTG. : HS-42 CONTR.MEMBER : Ext Bm B POSTED : SV TTST DATE 01/01/0001

SYSTEM : Primary U.S. Route GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I95S	16.6670	16.5830	44.50	11	9.50
3	I95N	16.50	16.4160	45.1660	13.1660	8

Note: All measurements are in feet.

REMARKS :



BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 500066

County JOHNSTON

Date: 07/05/2017


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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	1	Span 4 Beam 1: 8" x 8" area of 1/4" section loss (9/16" remaining) on left side of bottom flange at End Bent 2	
 3348	Maintain Concrete Substructure Components	LF	6	End Bent 2 Cap 1: 67" x 12" x 2" deep spall with exposed rebar under Bay 1 (PM)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 500066

County JOHNSTON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
07/13/2017	Jonathan M Simpson	
Details		
Span 4 Beam 1: 8" x 8" area of 1/4" section loss (9/16" remaining) on left side of bottom flange at End Bent 2		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	6 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
07/13/2017	Jonathan M Simpson	
Details		
End Bent 2 Cap 1: 67" x 12" x 2" deep spall with exposed rebar under Bay 1 (PM)		

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide *	3ft Paved *	
Right Shoulder	3ft Wide *	3ft Paved *	
Left Guardrail	3ft from road *		
Right Guardrail	3ft from road *		

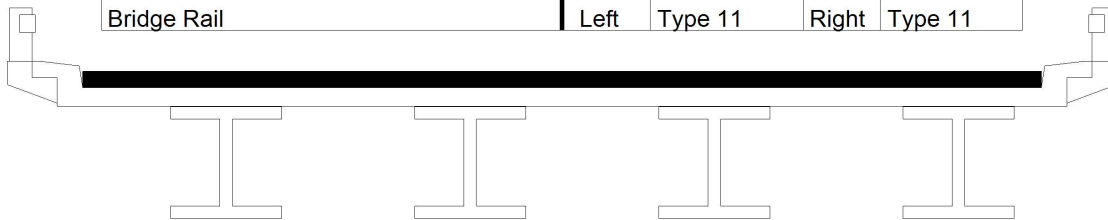
* Measurement modified

MEASUREMENT MODIFIED 7/5/17 BY JMS

Title APPROACH ROADWAY		Description LOOKING EAST	
Bridge No: 500066	Drawn By: W.T. WILKINSON	Date: 08/2/2007	File Name: S0154000192

Bridge Inspection Field Sketch

Deck Width/Out to Out	33.167ft *	Between Rails	31.25ft
Clear Roadway	28ft	Wearing Surface	0.479ft
Median Width		Median Height	
Curb Height		Left 0.5ft *	Right 0.5ft *
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 2.583ft *	Right 2.583ft *
Top of Rail to Deck/Wearing Surface		Left 2.271ft	Right 4.583 *
Bridge Rail		Left Type 11	Right Type 11



Measurements for Span #	1		
Deck Thickness	0.542	Left Overhang	4.583 *
Top of Rail to Bottom of Beam	5.208	Right Overhang	4.583 *

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	8.0ft	W33X141 (SP 1 AND 4) AND W30X132 (SP 2 AND 3)
2	Steel I Beam	8.0ft	W33X130 (SP 1 AND 4) AND W30X152 (SP 2 AND 3)
3	Steel I Beam	8.0ft	W33X130 (SP 1 AND 4) AND W30X152 (SP 2 AND 3)
4	Steel I Beam	ft	W33X141 (SP 1 AND 4) AND W30X132 (SP 2 AND 3)

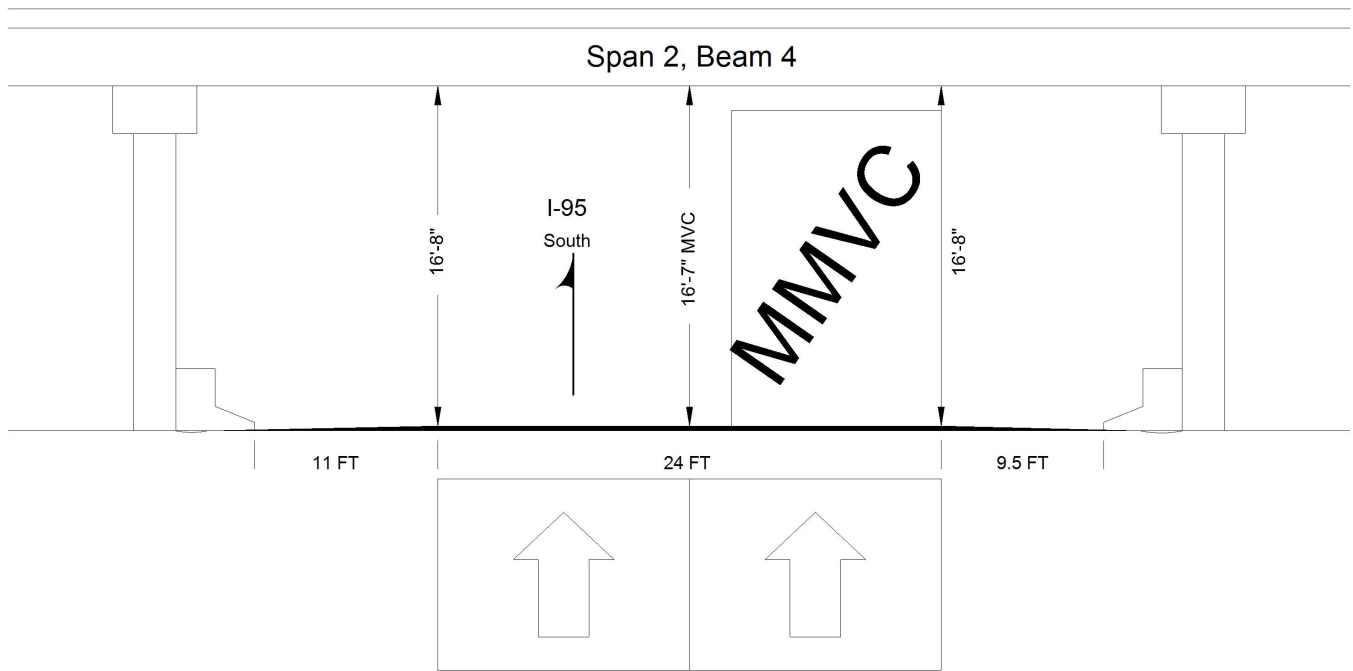
* Measurement modified

9" WIDE X 26'-0" LONG X 5/8" THICK BOTTOM COVER PLATE BEAMS 2 AND 3 IN SPANS 1 AND 4
 10 1/2" WIDE X 36'-0" LONG X 1 3/16" THICK BOTOTM COVER PLATE BEAM 1 IN SPAN 3
 10 1/2" WIDE X 36'-0" LONG X 1 3/16" THICK BOTTOM COVER PLATE BEAM 4 IN SPANS 2 AND 3
 10 1/2" WIDE X 40'-0" LONG X 1 1/16" THICK BOTTOM COVER PLATE BEAMS 2 AND 3 IN SPANS 2 AND 3
 11 5/8" WIDE X 62'-6" LONG X 1 1/16" THICK TOP COVER PLATE BEAMS 1 AND 4 IN SPANS 2 AND 3

SKETCH MODIFIED 7/5/17 BY JMS

Title TYPICAL SECTION LOOKING EAST		Description 4 - LINES OF 2.750 FT. STEEL I - BEAMS	
Bridge No: 500066	Drawn By: A. D. OSBORNE	Date: 09/21/2005	File Name: S0154000193

Bridge Inspection Field Sketch

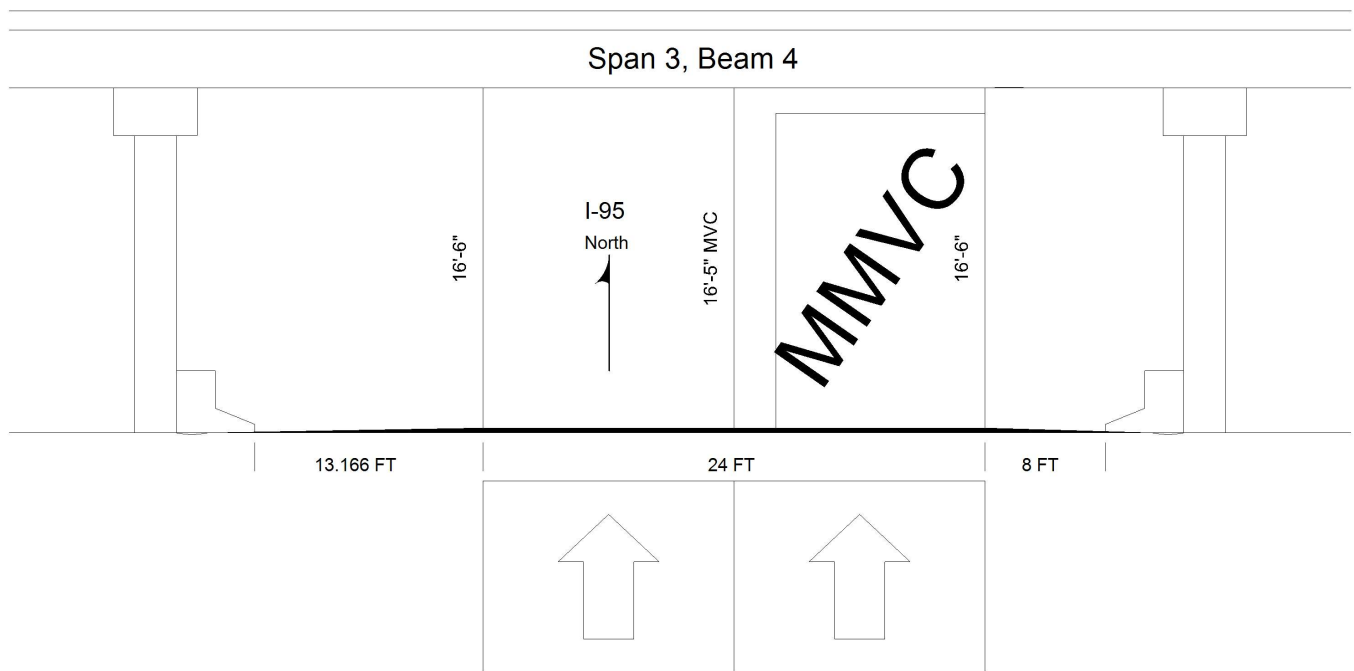


Roadway 1		Direction of Traffic	South
Distance to Left Rail	11FT	Distance to Right Rail	9.5FT
Distance to Left Toe of Slope		Distance to Left Bent	12.5FT
Distance to Right Toe of Slope		Distance to Right Bent	11.5FT
MMVC	16.667 Ft at Beam 4, 0 FT from THE RIGHT EDGE OF RT. THRU LANE		
MVC	16.583 Ft at Beam 4, 0 FT from THE CENTERLINE OF ROADWAY		

SKETCH VERIFIED 7/5/17 BY JMS

Title		Description	
SBL CLEARANCES		SBL CLEARANCES	
Bridge No: 500066	Drawn By: W.T. WILKINSON	Date: 08/2/2007	File Name: S0154000195

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	13.166FT	Distance to Right Rail	8FT
Distance to Left Toe of Slope		Distance to Left Bent	14.667FT
Distance to Right Toe of Slope		Distance to Right Bent	9.5FT
MMVC	16.5 Ft at Beam 4, 0 FT from THE LEFT EDGE OF RT. THRU LANE		
MVC	16.416 Ft at Beam 4, 0 FT from THE CENTERLINE OF ROADWAY		

SKETCH VERIFIED 7/5/17 BY JMS

Title NBL CLEARANCES		Description NBL CLEARANCES	
Bridge No: 500066	Drawn By: W.T. WILKINSON	Date: 08/2/2007	File Name: S0154000194

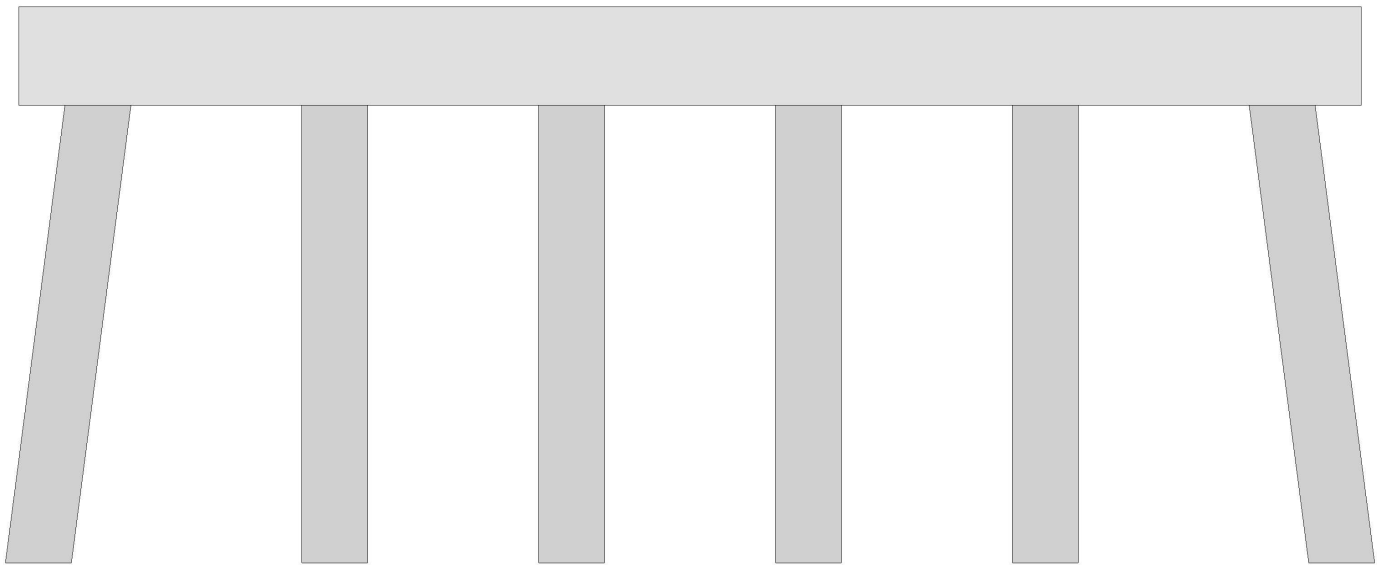
Bridge Inspection Field Sketch



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.				
42.917 ft.	3.000 ft.	2.500 ft.	2.250 ft.	2.000 ft.	8.667 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	Steel	14 ft.	1.5 ft.			Vertical	Yes	No	No	No
2	Concrete	5.75 ft.	1.667 ft.			Vertical	Yes	No	No	No
3	Concrete	6.083 ft.	1.667 ft.			Vertical	Yes	No	No	No
4	Concrete	6.083 ft.	1.667 ft.			Vertical	Yes	No	No	No
5	Concrete	6.75 ft.	1.667 ft.			Vertical	Yes	No	No	No
6	Concrete		1.667 ft.			Battered	Yes	No	No	No
Cap height at left end is 5.5'										
Bent/Abutment #: 1			Similar Bents:							

Title BENT 1			Description LOOKING EAST							
Bridge No: 500066	Drawn By: JMS	Date: 7/12/2017	File Name: S0494000214							

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.				
34.000 ft.	3.000 ft.	2.500 ft.	2.000 ft.	2.000 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	6 ft.	1.67 ft.			Battered	Yes	No	No	No
2	Concrete	6 ft.	1.67 ft.			Vertical	Yes	No	No	No
3	Concrete	6 ft.	1.67 ft.			Vertical	Yes	No	No	No
4	Concrete	6 ft.	1.67 ft.			Vertical	Yes	No	No	No
5	Concrete	6 ft.	1.67 ft.			Vertical	Yes	No	No	No
6	Concrete		1.67 ft.			Battered	Yes	No	No	No
CONCRETE COLLAR AROUND PILES 2 AND 3 AT BENT 3										
SKETCH VERIFIED 7/5/17 BY JMS										
Bent/Abutment #: 2			Similar Bents: 3							

Title BENT 2				Description BENTS 2 AND 3			
Bridge No:	500066	Drawn By:	RP	Date:	8/1/2015	File Name:	S0366000077