



The

2015 BrM

User Group Meeting

Park City, Utah

September 22nd & 23rd, 2015

shirtwoot!



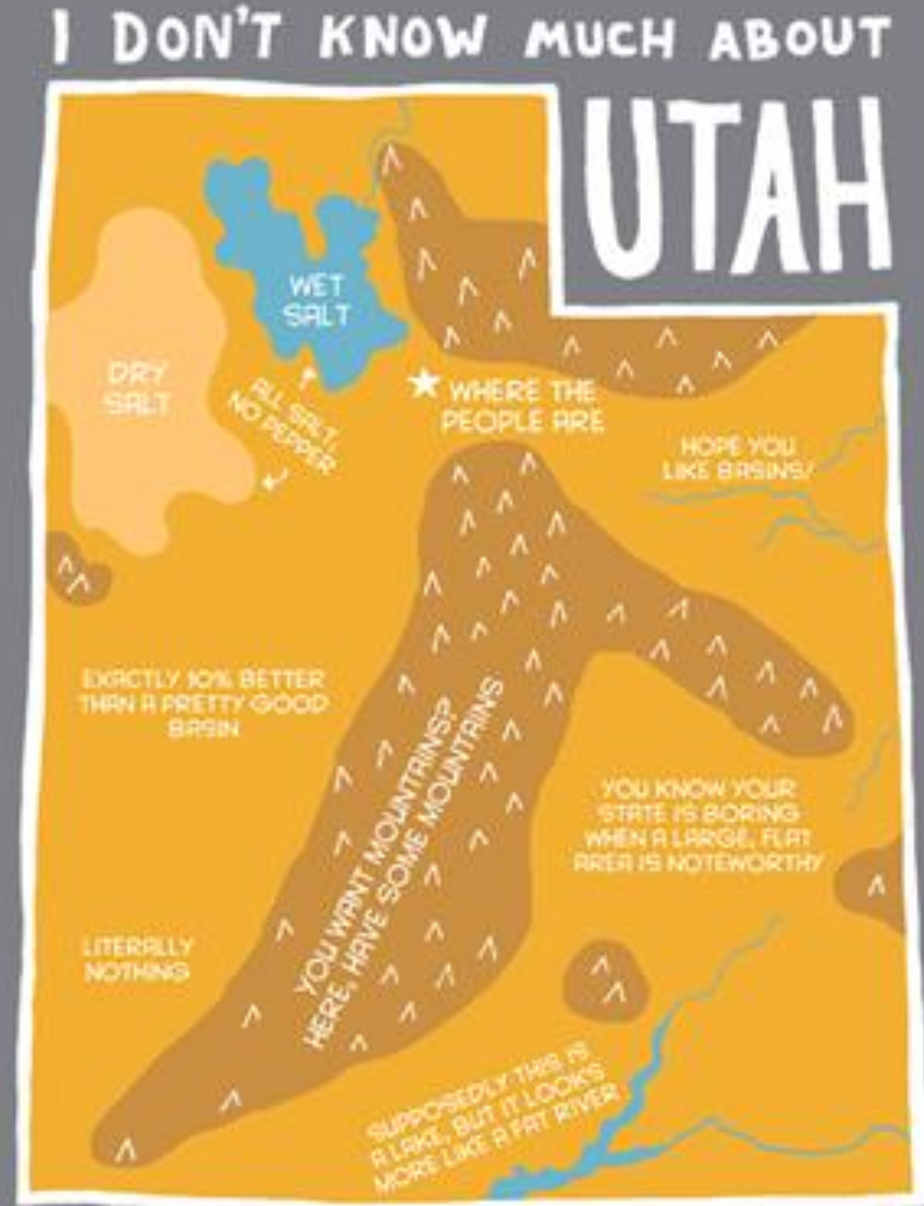
The

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User Group Meeting

Park City, Utah

September 22nd & 23rd, 2015





UTDOT

Keeping Utah Moving

Additional Tables Discussion

Database TAG

August 2015



Clearance Tables

Database TAG

August 2015

Condition

Appraisal

Inventory

Schedule

Work

Multimedia

Assessments

UDOT Old Bridge Notes

Clearance

Cross Section

Bridge: 1C 700 Facility Carried: (007): RP.I215NB TO I80WB

Clearance Measures

Measure1	Measure2	Type	Lane No	Direction
1: 21.46	1: 21.81	1: Edge of Pavem	1:	1: N
2: 21.46	2: 21.81	2: Thru	2: 1	2: -
3: 21.44	3: 22.07	3: Inside Edge of	3:	3: N
4: 21.44	4: 22.07	4: Edge of Pavem	4:	4: N
5:	5:	5: N/A	5:	5: N
6: 16.67	6: 17.81	6: Edge of Pavem	6:	6: N
7: 16.96	7: 18.16	7: Thru	7: 3	7: -
8:	8:	8: Thru	8: 2	8: -
9:	9:	9: Thru	9: 1	9: -
10: 18.13	10: 19.40	10: Inside Edge of	10:	10: N
11: 18.42	11: 19.80	11: Edge of Pavem	11:	11: N
12: 19.15	12: 20.42	12: Edge of Pavem	12:	12: N
13: 19.53	13: 20.58	13: Inside Edge of	13:	13: N
14:	14:	14: Thru	14: 1	14: +
15:	15:	15: Thru	15: 2	15: +
16: 20.42	16: 21.58	16: Thru	16: 3	16: +
17:	17: 21.66	17: Edge of Pavem	17:	17: N
18:	18:	18: N/A	18:	18: N
19:	19:	19: N/A	19:	19: N
20:	20:	20: N/A	20:	20: N
21:	21:	21: N/A	21:	21: N
22:	22:	22: N/A	20:	22: N
23:	23:	23: N/A	23:	23: N
24:	24:	24: N/A	24:	24: N
25:	25:	25: N/A	25:	25: N
26:	26:	26: N/A	26:	26: N
27:	27:	27: N/A	27:	27: N
28:	28:	28: N/A	28:	28: N
29:	29:	29: N/A	29:	29: N
30:	30:	30: N/A	30:	30: N

UDOT Data

Overhead Measures

<p>Negative</p> <p>Direction: N/A</p> <p>Lane of Min: 0</p>	<p>Positive</p> <p>Direction: NBL</p> <p>Lane of Min: 1</p>
<p>Negative</p> <p>Max ft: 0 in: 0</p> <p>Min ft: 0 in: 0</p>	<p>Positive</p> <p>Max ft: 99 in: 99</p> <p>Min ft: 99 in: 99</p>

Under Measures

<p>Negative</p> <p>Direction: SBL</p> <p>Lane of Min: 3</p>	<p>Positive</p> <p>Direction: NBL</p> <p>Lane of Min: 1</p>
<p>Negative</p> <p>Max ft: 18 in: 2</p> <p>Min ft: 16 in: 11</p>	<p>Positive</p> <p>Max ft: 20 in: 5</p> <p>Min ft: 19 in: 6</p>

Clearance Signs

<p>Negative</p> <p>Placed: No</p> <p>Correct: N/A</p> <p>Legible: N/A</p> <p>Standard: N/A</p> <p>Apprch Rqrd: N/A</p> <p>Legend: None</p>	<p>Positive</p> <p>Placed: No</p> <p>Correct: N/A</p> <p>Legible: N/A</p> <p>Standard: N/A</p> <p>Apprch Rqrd: N/A</p> <p>Legend: None</p>
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Other Clearance Data

Notes:

Pave Type Under: Asphalt

Save Save & Close Cancel



	21.46	21.81	
	21.46	21.81	← Lane 1 -
	21.44	22.07	
	21.44	22.07	
	16.67	17.81	
	16.96	18.16	← Lane 3 -
			← Lane 2 -
			← Lane 1 -
	18.13	19.40	
	18.42	19.80	
	19.15	20.42	
	19.53	20.58	
+ Lane 1 →			
+ Lane 2 →			
+ Lane 3 →			
	20.42	21.58	
		21.66	

CLEARANCES			
OVER STRUCTURE		UNDER STRUCTURE	
Not Applicable	NB Lane 1	SB Lane 3	NB Lane 1
Max: Not Applicable	Not Applicable	Max: 19' 2"	20' 6"
Min: Not Applicable	Not Applicable	Min: 19' 11"	19' 6"

CLEARANCE SIGNS			
Direction 1		Direction 2	
Signs Placed:	No	No	No
Signs Correct:	Not Applicable	Not Applicable	Not Applicable
Signs Legible:	Not Applicable	Not Applicable	Not Applicable
Signs Standard:	Not Applicable	Not Applicable	Not Applicable
Approach Signs Required:	Not Applicable	Not Applicable	Not Applicable
Existing Legends:	None	None	None

NOTES		
Pavement Type Under:	Asphalt	
NBI COMPARISON		
	Structure Item: 32	Approach Item: 32
NBI Vertical Clearance for Route Over:		
NBI Vertical Clearance for Route Under:	19.33 Feet	19.33 Feet

	21.46	21.81	← Lane 1 -
	21.44	22.07	
	21.44	22.07	
	16.67	17.81	
	16.96	18.16	← Lane 3 -
			← Lane 2 -
			← Lane 1 -
	18.13	19.40	
	18.42	19.80	
	19.15	20.42	
	19.53	20.58	
→			

Column	Datatype	NN	Comment
BRIDGE_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	

Dummy table showing bridge ownership hierarchy

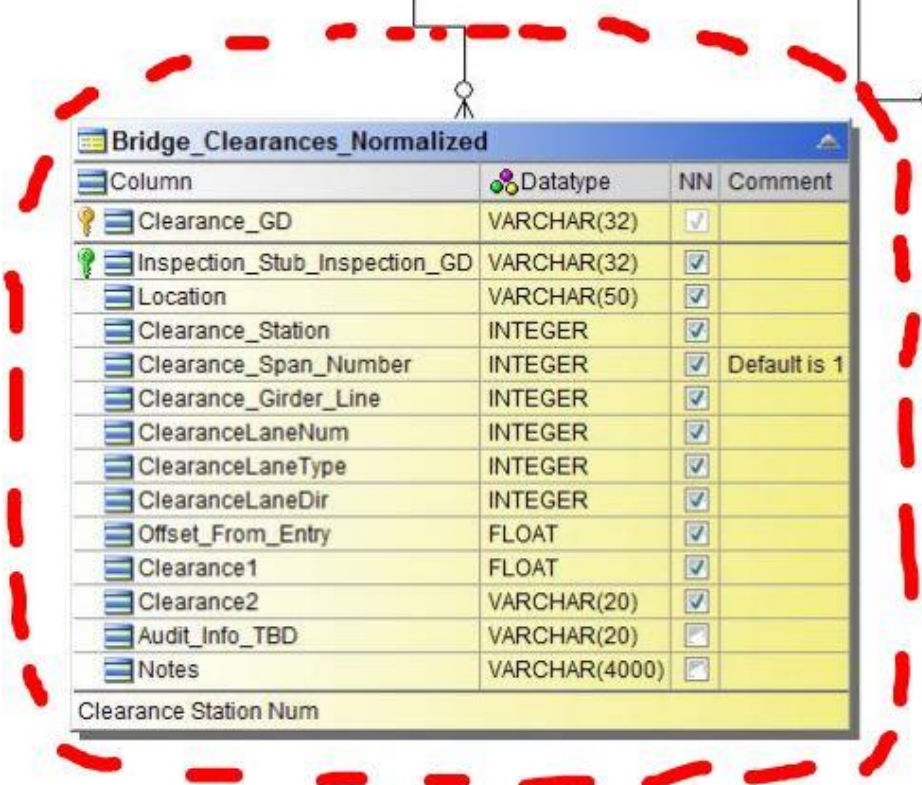
Column	Datatype	NN	Comment
Abutment_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Bridge_Stub_BRIDGE_GD	VARCHAR(32)	<input type="checkbox"/>	
Abutment_Type	INTEGER	<input type="checkbox"/>	
Abutment_Station	INTEGER	<input type="checkbox"/>	
Exposed_Piles_Footings	INTEGER	<input type="checkbox"/>	0 means not exposed, other codes...
Abutment_Depth_To_Top	FLOAT	<input type="checkbox"/>	
Audit_Info_TBD	VARCHAR(255)	<input type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	

Column	Datatype	NN	Comment
Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Bridge_Stub_BRIDGE_GD	VARCHAR(32)	<input type="checkbox"/>	
Inspection_Date	DATE	<input type="checkbox"/>	

Column	Datatype	NN	Comment
XSection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Inspection_Stub_Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Location	VARCHAR(50)	<input checked="" type="checkbox"/>	
XSection_Station	INTEGER	<input checked="" type="checkbox"/>	
Offset_From_Start	FLOAT	<input checked="" type="checkbox"/>	
Measurement_Line	INTEGER	<input type="checkbox"/>	
Measurement_Type	INTEGER	<input checked="" type="checkbox"/>	Parameterized label for the type
Measure	FLOAT	<input checked="" type="checkbox"/>	
Exposed_Piles_Footings	INTEGER	<input type="checkbox"/>	
Audit_Info_TBD	VARCHAR(255)	<input checked="" type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	

Column	Datatype	NN	Comment
Clearance_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Inspection_Stub_Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Location	VARCHAR(50)	<input checked="" type="checkbox"/>	
Clearance_Station	INTEGER	<input checked="" type="checkbox"/>	
Clearance_Span_Number	INTEGER	<input checked="" type="checkbox"/>	Default is 1
Clearance_Girder_Line	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneNum	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneType	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneDir	INTEGER	<input checked="" type="checkbox"/>	
Offset_From_Entry	FLOAT	<input checked="" type="checkbox"/>	
Clearance1	FLOAT	<input checked="" type="checkbox"/>	
Clearance2	VARCHAR(20)	<input checked="" type="checkbox"/>	
Audit_Info_TBD	VARCHAR(20)	<input type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	

Clearance Station Num





Cross Section Tables

Database TAG

August 2015

- Condition
- Appraisal
- Inventory
- Schedule
- Work
- Multimedia
- Assessments
- UDOT Old Bridge Notes
- Clearance
- Cross Section

Bridge: Facility Carried: (007): SR-17 Inspection: Type: Regular NBIS

Cross Section Baseline

Bank 1:

Bank 2:

Control Point:

Road 1:

Road 2:

Bottom of Beam:

Top of Water:

Cross Section Save Btn

Location - Measures

Notes	Station	Measures
1: NE end of Parapet	1: 0.00	1: 3.1
2:	2: 10.00	2: 3.2
3:	3: 20.00	3: 8.6
4: Opening	4: 28.00	4: 11.9
5:	5: 30.00	5: 12.9
6:	6: 40.00	6: 18.4
7: Top of embankment	7: 50.00	7: 30.4
8:	8: 60.00	8: 33.6
9:	9: 70.00	9: 33.5
10:	10: 80.00	10: 34.6
11:	11: 90.00	11: 33.5
12:	12: 100.00	12: 32.6
13: Bottom of Embankm	13: 110.00	13: 28.6
14:	14: 120.00	14: 19.5
15:	15: 130.00	15: 13.7
16:	16: 140.00	16: 12.1
17: Opening	17: 146.00	17: 11.2
18:	18: 150.00	18: 8.2
19:	19: 160.00	19: 2.9
20: End of Parapet	20: 170.00	20: 2.5
21:	21:	21:
22:	22:	22:
23:	23:	23:
24:	24:	24:
25:	25:	25:
26:	26:	26:
27:	27:	27:
28:	28:	28:
29:	29:	29:
30:	30:	30:

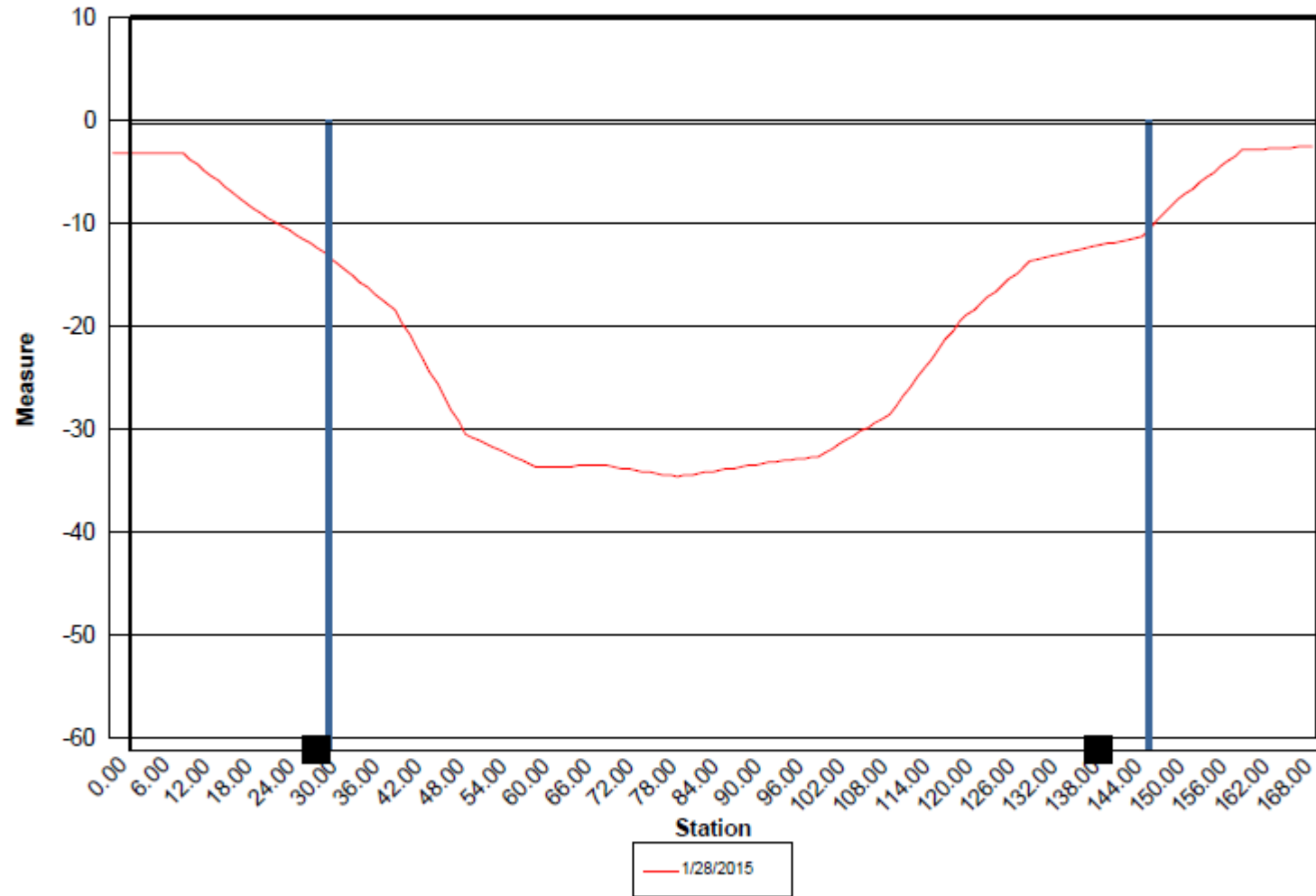
Footing Data

Abutment Type	Station	Depth
1: Abut, Spread F	1: 28.00	1: 68.00
2: Abut, Spread F	2: 146.00	2: 68.00
3: N/A	3:	3:
4: N/A	4:	4:
5: N/A	5:	5:
6: N/A	6:	6:
7: N/A	7:	7:
8: N/A	8:	8:
9: N/A	9:	9:
10: N/A	10:	10:



0F 589
LaVerkin Creek Bridge, north of LaVerkin

Inspector: Clint McCleery
Inspection Date: January 28, 2015



		1/28/15	
	Bank 1		
	Bank 2		
	Control	0.0	
	Road 1		
	Road 2		
	Beam		
	<u>Water</u>	<u>33.80</u>	
NE end of	0	3.1	
	10	3.2	
	20	8.6	
Opening	28	11.9	
	30	12.9	
	40	18.4	
Top of emb	50	30.4	
	60	33.6	
	70	33.5	
	80	34.6	
	90	33.5	
Bottom of	100	32.6	
	110	28.6	
	120	19.5	
	130	13.7	
	140	12.1	
Opening	146	11.2	
	150	8.2	
	160	2.9	
End of Par	170	2.5	

Column	Datatype	NN	Comment
BRIDGE_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	

Dummy table showing bridge ownership hierarchy

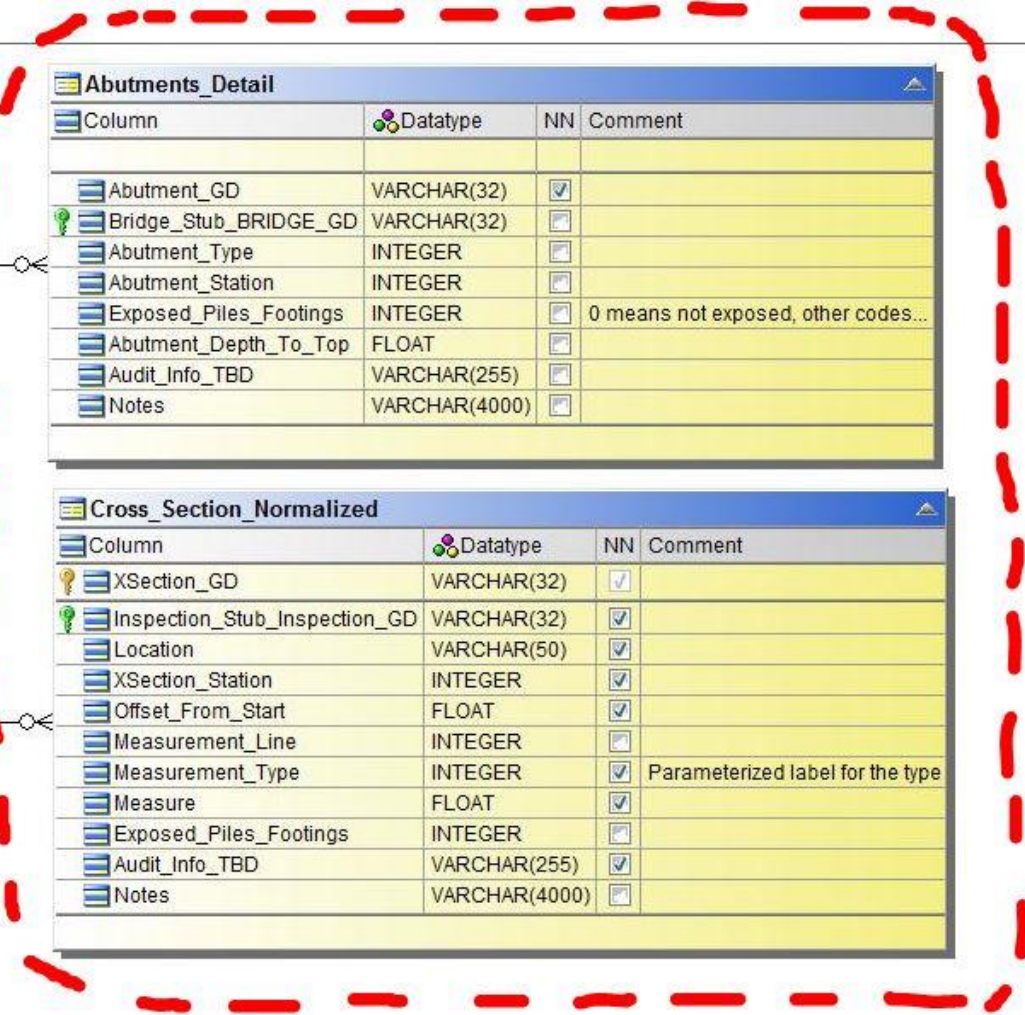
Column	Datatype	NN	Comment
Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Bridge_Stub_BRIDGE_GD	VARCHAR(32)	<input type="checkbox"/>	
Inspection_Date	DATE	<input type="checkbox"/>	

Column	Datatype	NN	Comment
Clearance_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Inspection_Stub_Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Location	VARCHAR(50)	<input checked="" type="checkbox"/>	
Clearance_Station	INTEGER	<input checked="" type="checkbox"/>	
Clearance_Span_Number	INTEGER	<input checked="" type="checkbox"/>	Default is 1
Clearance_Girder_Line	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneNum	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneType	INTEGER	<input checked="" type="checkbox"/>	
ClearanceLaneDir	INTEGER	<input checked="" type="checkbox"/>	
Offset_From_Entry	FLOAT	<input checked="" type="checkbox"/>	
Clearance1	FLOAT	<input checked="" type="checkbox"/>	
Clearance2	VARCHAR(20)	<input checked="" type="checkbox"/>	
Audit_Info_TBD	VARCHAR(20)	<input type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	

Clearance Station Num

Column	Datatype	NN	Comment
Abutment_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Bridge_Stub_BRIDGE_GD	VARCHAR(32)	<input type="checkbox"/>	
Abutment_Type	INTEGER	<input type="checkbox"/>	
Abutment_Station	INTEGER	<input type="checkbox"/>	
Exposed_Piles_Footings	INTEGER	<input type="checkbox"/>	0 means not exposed, other codes...
Abutment_Depth_To_Top	FLOAT	<input type="checkbox"/>	
Audit_Info_TBD	VARCHAR(255)	<input type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	

Column	Datatype	NN	Comment
XSection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Inspection_Stub_Inspection_GD	VARCHAR(32)	<input checked="" type="checkbox"/>	
Location	VARCHAR(50)	<input checked="" type="checkbox"/>	
XSection_Station	INTEGER	<input checked="" type="checkbox"/>	
Offset_From_Start	FLOAT	<input checked="" type="checkbox"/>	
Measurement_Line	INTEGER	<input type="checkbox"/>	
Measurement_Type	INTEGER	<input checked="" type="checkbox"/>	Parameterized label for the type
Measure	FLOAT	<input checked="" type="checkbox"/>	
Exposed_Piles_Footings	INTEGER	<input type="checkbox"/>	
Audit_Info_TBD	VARCHAR(255)	<input checked="" type="checkbox"/>	
Notes	VARCHAR(4000)	<input type="checkbox"/>	





Load Rating Tables

Database TAG

August 2015



- Condition
- Appraisal
- Inventory
- Schedule
- Work
- Multimedia
- Assessments
- Element Condition Ratings
- Bridge Notes
- Rating Events History
- Replacement Program
- Structure Detail Observation
- Original Streambed Elevations
- Streambed Cross Sections
- Scour Potential Evaluation
- Scour Resistant Layer

Bridge: 006594 Facility Carried: (007): SR 20
 Feature Intersected (006A): SOUTHERN RR Milepoint (011): 68.629 mi Local ID: NNNN

HISTORY OF RATING EVENTS
 New Event

	Event To Publish	(01)	(02)	(03)	(04)
Rating Date (252)	[04] [v]	6/30/2005 12:00	1/1/1900 12:00	11/21/2013 12:00	12/8/2014 12:00
Rater Initials		DDJ	JFB	DDJ	DDJ
HS (OPER. RATING) (64)	[04] [v]	35.5	48	39.5	43.6
HS (INV. RATING) (66)	[04] [v]	21.3	36	23.6	26.1
H-TRUCK (254A)	[04] [v]	26.8		25.7	31.3
TANDEM AXLE (254B)	[04] [v]	33.3		36.8	40.9
TRIAxLE DUMP (254C)	[04] [v]	31.3		33.5	38.4
CONCRETE (254D)	[04] [v]	31.6		33	38.8
18-WHEELER (254E)	[04] [v]	57.8		57.7	70.1
6-AXLE (254F)	[04] [v]	54.1		53.8	64.8
SCHOOL BUS (254G)	[04] [v]	32.5		31.6	38.4
RATING METHOD (OPER.) (63)	[04] [v]	1 LF Load Factor [v]	5 No rating [v]	1 LF Load Factor [v]	1 LF Load Factor [v]
RATING METHOD (INV.) (65)	[04] [v]	1 LF Load Factor [v]	5 No rating [v]	1 LF Load Factor [v]	1 LF Load Factor [v]
RATING SPEC (249)	[04] [v]	LFD [v]	Not Rated [v]	LFD [v]	LFD [v]
RATING ANALYSIS MAJOR (250A)	[04] [v]	AASHTO BrR (Virtis) [v]	Not Rated / Analyzed [v]	AASHTO BrR (Virtis) [v]	AASHTO BrR (Virtis) [v]
RATING ANALYSIS MINOR (250B)	[04] [v]	Not Rated / Analyzed [v]	Not Rated / Analyzed [v]	BRUFEM [v]	BRUFEM [v]
RATING AGENCY (251)	[04] [v]	ALDOT (Maint. Bureau) [v]	Not Rated / Analyzed [v]	ALDOT (Maint. Bureau) [v]	ALDOT (Maint. Bureau) [v]

POSTING LEVEL (70)	5 At/Above Legal Load [v]
RATING STATUS (253A)	Rating Published [v]
RATING STATUS PRIMARY (253B)	No Action [v]
RATING STATUS SECONDARY (253C)	No Action [v]
POSTING MEMBER (257A)	Superstructure [v]
REASON POSTED (257B)	None / Condition Noted [v]
POSTING CHART INDICATOR (259)	Leave Off Posting Char [v]
STANDARD DRAWINGS - MAIN (265)	SPECIAL
STANDARD DRAWINGS - APPROACH (266)	NNNNNNNNNNNNNNNNNN

- Condition
- Appraisal
- Inventory
- Schedule
- Work
- Multimedia
- Assessments
- Agency Bridge
- Agency Roadway
- Agency Load Rating

Bridge:

Inspection:

English Metric

Wearing Surface/Dead Load

Asphalt: in Granular: in

Concrete: in Timber: in

Max Wearing Surface for Load Capacity: in

Load Rating

Load Rating Status:

Rating Program:

ASR/LFR

Controlling Member	Inv Rating	Oper Rating
H Trk: <input type="text" value="S03 @ 1.50"/>	H Trk: <input type="text" value="18"/> ton	H Trk: <input type="text" value="36"/> ton
HS TRK: <input type="text" value="S03 @ 1.50"/>	HS Trk: <input type="text" value="32"/> ton	HS Trk: <input type="text" value="66"/> ton
Type 3 Trk: <input type="text" value="S03 @ 1.50"/>	Type 3 Trk: <input type="text" value="42"/> ton	Type 3 Trk: <input type="text" value="67"/> ton
Type 3S2 Trk: <input type="text" value="S01 @ 1.40"/>	Type 3S2 Trk: <input type="text" value="50"/> ton	Type 3S2 Trk: <input type="text" value="84"/> ton
Type 3-3 Trk: <input type="text" value="S01 @ 1.40"/>	Type 3-3 Trk: <input type="text" value="50"/> ton	Type 3-3 Trk: <input type="text" value="84"/> ton
Spec 121: <input type="text"/>	Spec 121: <input type="text"/> ton	Spec 121: <input type="text"/> ton
NRL: <input type="text"/>	NRL: <input type="text"/> ton	NRL: <input type="text"/> ton

Posting

Recommended Posting	Actual Posting
Type 3 Trk: <input type="text"/> ton	Type 3 Trk: <input type="text"/> ton
Type 3S2 Trk: <input type="text"/> ton	Type 3S2 Trk: <input type="text"/> ton
Type 3-3 Trk: <input type="text"/> ton	Type 3-3 Trk: <input type="text"/> ton
Max Axle: <input type="text"/> ton	Max Axle: <input type="text"/> ton
Height Posting: <input type="text"/> ft	Single Lane Al: <input type="text"/>
	Single Lane Tr: <input type="text"/>
	Height Postin: <input type="text"/>

LFR

Controlling Member	Rating Factor	Legal Rating	Permit Rating
HL-93: <input type="text"/>	Inv HL-93: <input type="text"/>	Type 3 Trk: <input type="text"/>	Type 3 Trk: <input type="text"/>
Type 3 Trk: <input type="text"/>	Oper HL-93: <input type="text"/>	Type 3S2 Trk: <input type="text"/>	Type 3S2 Trk: <input type="text"/>
Type 3S2 Trk: <input type="text"/>		Type 3-3 Trk: <input type="text"/>	Type 3-3 Trk: <input type="text"/>
Type 3-3 Trk: <input type="text"/>		Spec 121: <input type="text"/>	Spec 121: <input type="text"/>
Spec 121: <input type="text"/>		NRL: <input type="text"/>	NRL: <input type="text"/>
NRL: <input type="text"/>			

Notes: