

**Brigham City Corporation**  
**Summary Statistics for Railroad Blockage of Forest Street**  
**December 10, 2018 - January 23, 2019**

**Blockage Data**

Total Days Reviewed	45
Number of Days with at Least 1 Blockage for 5 minutes	35
Percentage of Days with Blockage	78%
Average Block Time Per Incident	24.8 minutes
Number of Incidents over 15 Minutes	94
Number of Incidents over 30 Minutes	40
Number of Incidents over 40 Minutes	25
Number of Incidents over 50 Minutes	13
Average Number of 5 minute or greater blockages on days with incidents	4.5
Average Number of 15 minute or greater blockages on days with incidents	2.7
Average Time the Intersection is Blocked per Day on days with incidents	111.9 minutes
Projected number of Days per Year with Blockages	284

**Economic Impact**

Estimated Annual Cost of Blockages	\$655,693.60
Negatively impacts our ability to attract industry to West Forest Street	
Negatively impacts our ability to attract and maintain downtown commercial business	

PRELIMINARY ESTIMATE OF PROBABLE COSTS - COST SUMMARY TABLE  
 BRIGHAM CITY - FOREST STREET STUDY  
 MAY 01, 2013



Alternative	Alternative Description	Total Project Cost
0	Do Nothing	To be determined
1	Bridge at Forest Street, close at-grade mainline railroad crossing at Forest Street, 900 West & 950 West meet elevated bridge improvements, L-shaped at-grade road	\$24,587,930
2	Bridge at Forest Street, close at-grade mainline railroad crossing at Forest Street, 900 West crosses under bridge & ties into 950 West, L-shaped at-grade road	\$22,694,127
3	Bridge at Forest Street, close at-grade mainline railroad crossing at Forest Street, One way roads under bridge, L-shaped at-grade road	\$18,847,507
4	Bridge at 50 South, close at-grade mainline railroad crossing at Forest Street, Elevate & connect 950 West to 900 West, Elevate 800 West	\$13,587,213
5	Bridge at 200 South, close at-grade mainline railroad crossing at Forest Street	\$22,433,082
6	North rail yard (near airport)	\$56,826,704
7	South rail yard (near Perry)	\$49,674,107

Note:

Cost figures stated above are the engineer's opinion of probable costs this year. These costs have been obtained by talking with contractors, reviewing contractor bid tabulations on projects designed by the engineer over the last 2 years, and construction cost publications. Costs stated above are not guaranteed. They are an opinion and not a warranty. It is recommended that the Owner have a contingency fund for unexpected costs. All quantities shown are preliminary and subject to change pending final design and approval by the railroad and jurisdictional agencies.

**LEGEND**

- BRIDGE IMPROVEMENTS - BRIDGE APPROACH
- AT-GRADE IMPROVEMENTS
- EX. RAILROAD
- EX. PARCELS
- EX. PUBLIC AT-GRADE ROAD CROSSING TO REMAIN
- EX. PUBLIC AT-GRADE ROAD CROSSING CLOSURE
- PROPOSED RIGHT OF WAY
- POTENTIAL WETLANDS



**TOTAL ESTIMATED COST**  
**\$24,587,930**

**NOTES:**

1. THIS DRAWING IS PRELIMINARY AND SUBJECT TO CHANGE.
2. ALTERNATIVE NUMBERING IS ARBITRARY & DOES NOT SUGGEST A PARTICULAR PREFERENCE OR REFLECT AN ALTERNATIVE'S COMPARATIVE COST EFFECTIVENESS.

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



**ALTERNATIVE 1**

**BRIDGE AT FOREST, 900 WEST & 950 WEST MEET BRIDGE AT-GRADE & 800 WEST DEAD ENDS & L-SHAPED ROAD FROM 900 WEST TO FOREST**



**LEGEND**

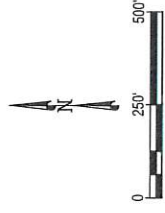
- BRIDGE IMPROVEMENTS - BRIDGE APPROACH
- AT-GRADE IMPROVEMENTS
- EX. RAILROAD
- EX. PARCELS
- EX. PUBLIC AT-GRADE ROAD CROSSING TO REMAIN
- EX. PUBLIC AT-GRADE ROAD CROSSING CLOSURE
- PROPOSED RIGHT OF WAY
- POTENTIAL WETLANDS



**TOTAL ESTIMATED COST**  
**\$22,694,127**

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**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



**ALTERNATIVE 2**  
**900 WEST CROSSES UNDER BRIDGE & TIES INTO 950 WEST & L-SHAPED ROAD FROM 900 WEST TO FOREST**



**LEGEND**

- BRIDGE IMPROVEMENTS - BRIDGE APPROACH
- AT-GRADE IMPROVEMENTS
- EX. RAILROAD
- EX. PARCELS
- EX. PUBLIC AT-GRADE ROAD CROSSING TO REMAIN
- EX. PUBLIC AT-GRADE ROAD CROSSING CLOSURE
- PROPOSED RIGHT OF WAY
- POTENTIAL WETLANDS



**TOTAL ESTIMATED COST**  
**\$18,847,507**

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**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

**ALTERNATIVE 3**

**BRIDGE AT FOREST, ONE LANE EACH DIRECTION UNDER BRIDGE & CLOSE AT-GRADE CROSSING & L-SHAPED ROAD FROM 900 WEST TO FOREST**



Day	Date	Number of Blocking			
		Incidents (over 5 minutes)	Total Minutes Blocked on Date (over 5 minutes)	Average Block Time	Long Block Time
Monday	12/10/2018	9	219	24.3	73
Tuesday	12/11/2018	0	0	n/a	n/a
Wednesday	12/12/2018	7	158	22.6	48
Thursday	12/13/2018	3	45	15.0	24
Friday	12/14/2018	10	132	13.2	31
Saturday	12/15/2018	1	7	7.0	7
Sunday	12/16/2018	0	0	n/a	n/a
Monday	12/17/2018	7	238	34.0	58
Tuesday	12/18/2018	5	100	20.0	38
Wednesday	12/19/2018	0	0	n/a	n/a
Thursday	12/20/2018	2	33	16.5	23
Friday	12/21/2018	3	83	27.7	46
Saturday	12/22/2018	0	0	n/a	n/a
Sunday	12/23/2018	2	52	26.0	36
Monday	12/24/2018	8	241	30.1	54
Tuesday	12/25/2018	4	66	16.5	19
Wednesday	12/26/2018	9	164	18.2	56
Thursday	12/27/2018	2	34	17.0	26
Friday	12/28/2018	5	154	30.8	66
Saturday	12/29/2018	0	0	n/a	n/a
Sunday	12/30/2018	2	18	9.0	10
Monday	12/31/2018	1	57	57.0	57
Tuesday	1/1/2019	6	110	18.3	34
Wednesday	1/2/2019	13	282	21.7	58
Thursday	1/3/2019	0	0	n/a	n/a
Friday	1/4/2019	3	86	28.7	49
Saturday	1/5/2019	0	0	n/a	n/a
Sunday	1/6/2019	1	69	69.0	69
Monday	1/7/2019	2	43	21.5	28
Tuesday	1/8/2019	7	173	24.7	46
Wednesday	1/9/2019	1	12	12.0	12
Thursday	1/10/2019	1	50	50.0	50
Friday	1/11/2019	5	94	18.8	28
Saturday	1/12/2019	0	0	n/a	n/a
Sunday	1/13/2019	3	112	37.3	72
Monday	1/14/2019	11	223	20.3	49
Tuesday	1/15/2019	1	21	21.0	21
Wednesday	1/16/2019	6	120	20.0	46
Thursday	1/17/2019	1	21	21.0	21
Friday	1/18/2019	5	126	25.2	45
Saturday	1/19/2019	0	0	n/a	n/a
Sunday	1/20/2019	1	41	41.0	41
Monday	1/21/2019	1	187	187.0	187
Tuesday	1/22/2019	0	0	n/a	n/a
Wednesday	1/23/2019	10	346	34.6	66
<b>Total</b>		<b>158</b>	<b>3,917</b>		