

August 2018

Monthly Operations Report



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INTRODUCTION

Pursuant to Schedule 6, Section 1.8.2(a) of the Concession Agreement, Plenary Roads Denver (“PRD”) is required to submit a monthly report covering all essential statistics related to the Managed Lanes. The following data covers the month of August 2018. Operationally, August was a positive month. Several routine maintenance tasks were completed, there were minimal incidents to maintained elements, and traffic volumes were consistent with expectations.

1.0 VOLUMES AND LANE USAGE

Over the last several months as more commuters use the transponders for either ExpressToll™ (AVI) or HOV travel, License Plate (LPT) transactions have consistently decreased as a percentage of total traffic volume. The total monthly gantry traffic volume for August 2018 in the I-25 Central and US 36 Managed Lanes was 285,829 and 1,692,932, respectively.

The table below provides the monthly summary for each Managed Lanes roadway, along with a detailed breakdown of weekday volumes. For reference, the AM Peak Period is considered to be weekdays from 6:45 am – 8:45 am. The PM Peak Period is considered to be, weekdays, from 4:15pm – 5:45pm. It should be noted, that the I-25 Managed Lane traffic reflects traffic counts from a single gantry and US 36 Managed Lane counts reflect fourteen gantries, seven gantries in each direction. Therefore, US 36 data will indicate far greater traffic counts that are not comparative to those of I-25.

The following charts depict the distribution of traffic by type (Figure 1) and the daily traffic counts (Figure 2) and for the month.

Traffic Summary (US 36)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	952,376	440,524	256,292	43,740	1,692,932	4,517
Maximum Weekday Traffic	43,396	19,596	10,439	1,899	74,626	213
Average Weekday Traffic	38,443	16,954	8,680	1,782	65,859	177
Average Hourly AM Peak Traffic	5,564	2,019	922	220	8,725	N/A
Average Hourly PM Peak Traffic	5,766	2,346	1,161	229	9,502	N/A

Traffic Summary (I-25C)						
	AVI	LPT	HOV	Non-Rev & Hybrid	Total	Hybrid
Total Monthly Traffic	126,938	123,958	60,244	13,002	324,142	1,339
Maximum Weekday Traffic	6,185	5,878	2,416	570	15,025	70
Average Weekday Traffic	5,180	4,954	2,235	531	12,369	55
Average Hourly AM Peak Traffic	700	643	304	74	1,647	N/A
Average Hourly PM Peak Traffic	661	605	274	75	1,540	N/A

Table 1 – Monthly Traffic Summaries

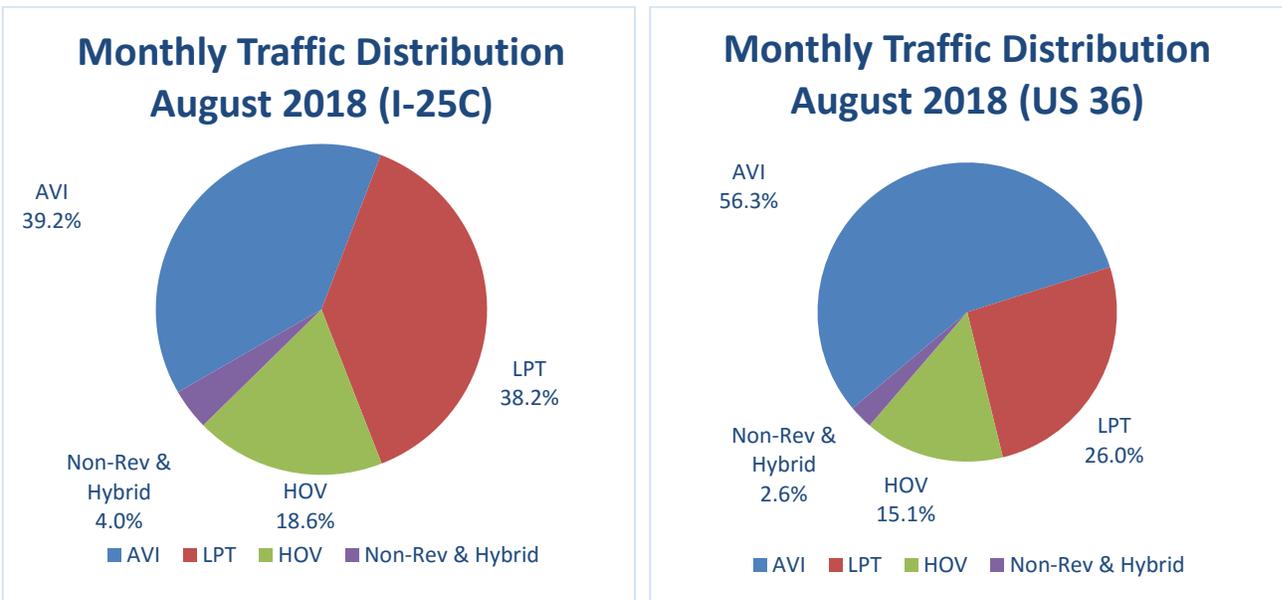
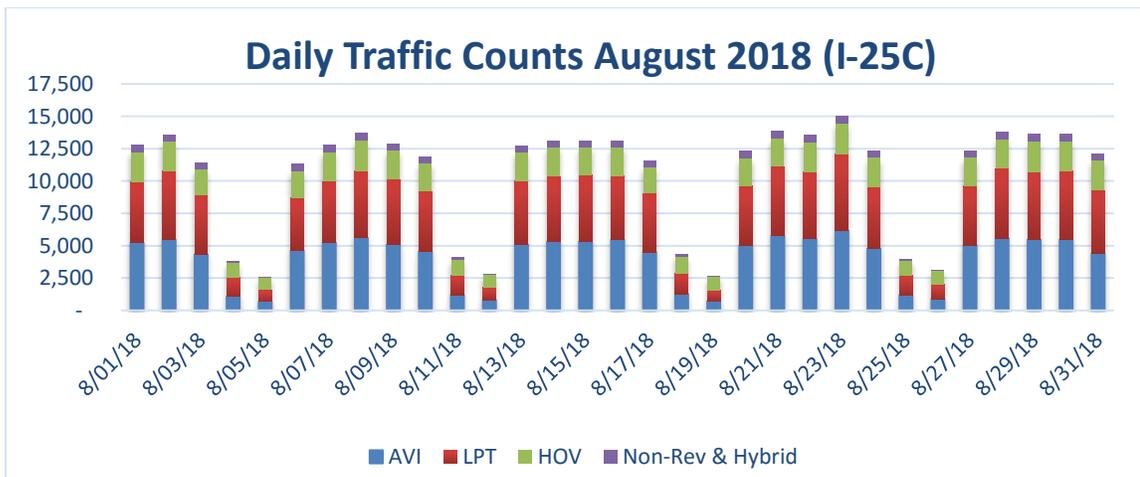


Figure 1 – Monthly Traffic Distribution



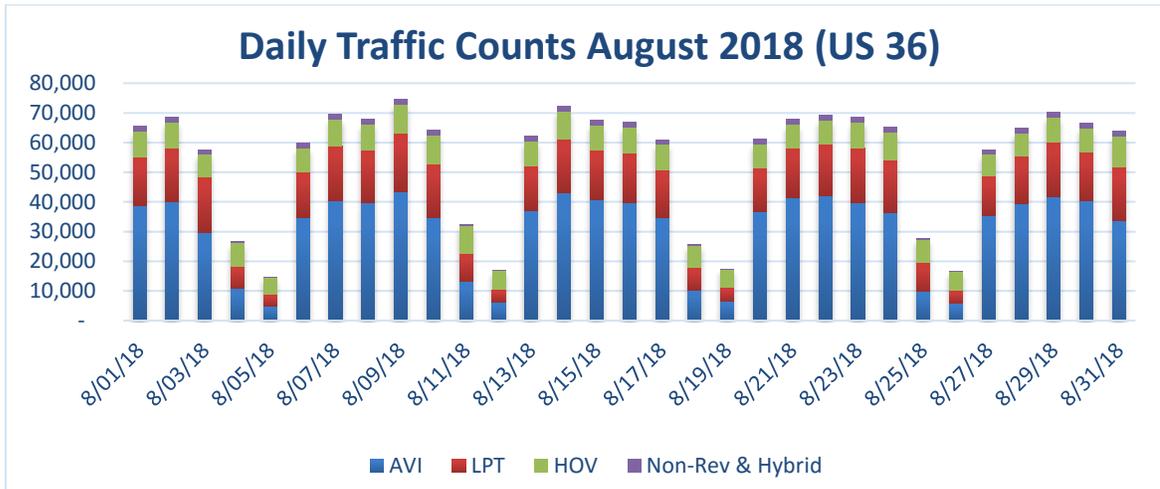


Figure 2 – Daily Traffic Counts

2.0 REVENUES

During the month of August 2018, PRD collected \$795,734 and \$886,962 from users of the I-25 Central and US36 Managed Lanes, respectively. For purposes of this report, revenues are recognized at the time of collection, which is typically sometime after they have been incurred for those customers who are billed based on their license plate. For example, if a single-occupant vehicle uses the lanes in October but pays in January, the associated revenue is attributed to January.

3.0 OPERATIONAL INCIDENTS, ISSUES, AND CLOSURES

The project had numerous routine debris removals, lighting incidents, guardrail incidents, sign incidents, and graffiti control during the month. The routine lighting, guardrail, roadway markings and sign incidents are all planned for repair within the allowable response period and several previously identified lighting incidents were repaired. All incidents were responded to and rectified within the allowable timeframes.

Date	Start	Stop	Duration
July 3, 2018	15:42	16:20	0:38
July 6, 2018	11:08	12:55	1:47
July 16, 2018	10:09	10:52	0:43
July 20, 2018	15:40	16:32	0:52
July 24, 2018	15:15	16:04	0:49
August 9, 2018	09:25	11:04	1:39
August 10, 2018	16:39	18:11	1:33

August 16, 2018	09:20	10:07	0:47
August 20, 2018	06:45	07:17	0:32
August 21, 2018	17:30	17:56	0:26
August 30, 2018	09:16	10:37	1:21
Total			11 hours 7 minutes
Remaining Closure Hours Available (Ref: CA 29.7)			0 hours 53 minutes

Table 2 – Managed Lanes Closures to Date

The table below provides a listing of ETCS items recorded this month, consistent with Appendix 6-2 of Schedule 6.

Element ID	Cat	Element	Performance Item	PRD Notified	Contractual Cure Period	Cure Achieved
None						

Table 3 – ETCS Issues per CA Schedule 6 Appendix 6-2

The table below provides a status of all Noncompliance categories in accordance with paragraph 1.2 of Schedule 10.

Non-compliance Location	Nature	Cause	Cure Date	Uncured Non-compliance Point	Unexpired Non-compliance Point	365 Day Expiration Date	1095 Day Expiration Date
Promenade West Toll Point	Incorrect toll schedule	Incorrect Toll Schedule was applied during a software update on 3/7/16	3/16/16 (Period II) Customer Accounts Corrected	0	3	3/16/17	3/16/19

Table 4 – Status of Noncompliance Categories

4.0 MEAN TIME BETWEEN FAILURE (MTBF) AND MEAN TIME TO REPAIR (MTTR)

Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR) data is provided in the table below. Only Maintained Elements that were repaired during the reporting period and had a failure type breakdown are listed in the table. We consider a breakdown to be a failure when the element cannot be used for its intended purpose until repaired.

Maintained Element	Mean Time Between Failure (MTBF) (Hours)	Mean Time To Repair (MTTR) (Hours)
None	N/A	N/A

Table 5 – Mean Time Between Failure & Mean Time To Repair

5.0 HYBRID UTILIZATION

Total Hybrid Trips	
I-25 Central	1,339
US 36	4,517

Table 6 – Hybrid Utilization

Fuel-efficient “Hybrid” vehicles are permitted to access the Express Lanes free of charge, regardless of occupant numbers, provided that they have obtained a permit from CDOT, obtained a Hybrid transponder from E-470, and display an E-470 Hybrid decal on the vehicle’s windshield.

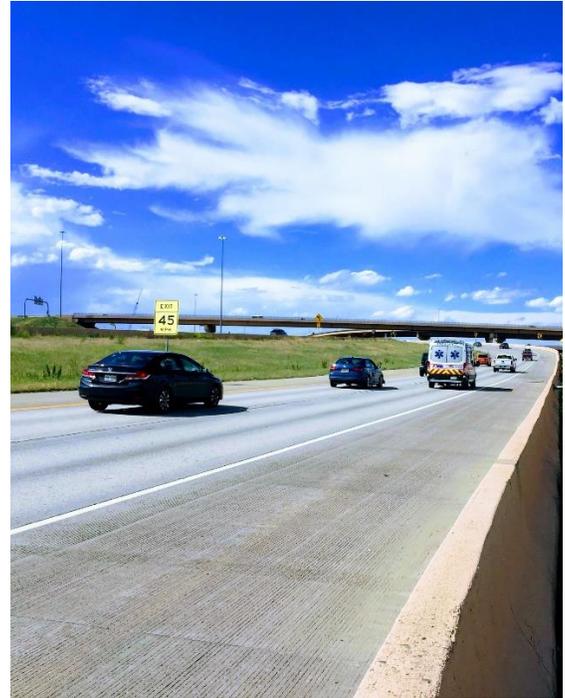
OPERATIONS AND
MAINTENANCE
MONTHLY REPORT
AUGUST 2018

US 36 and I-25 Express
Lanes Project

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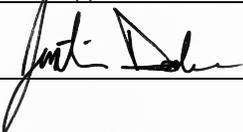


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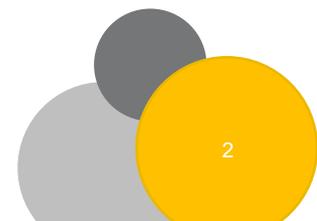
OPERATIONS AND MAINTENANCE – MONTHLY REPORT
AUGUST 2018
US 36 and I-25 Express Lanes Project

Revision	Date	Approved
Rev. 0	09/10/2018	

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The information and analyses contained herein have been completed to a level of detail commensurate with the objectives of the assignment and in light of the information made available to Ferrovial Services at the time of preparation. This report and its supporting documentation have been reviewed and/or checked for conformance with industry-accepted norms. To the best of the information and belief of Ferrovial Services, the information presented in this report is accurate to within the limitations specified herein.

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The O&M Monthly Report contains all relevant information for the month of August 2018. Ferrovial Services continues ongoing and preventive maintenance activities for the I-25 and US36 Managed Lanes Project.

Ferrovial Services Commitment to Safety

Ferrovial Services conducted weekly toolbox talk meetings during the month. The purpose of the tool box talks is to cover important safety items that relate to the project such as near misses, “better ways” as to how safety is conducted for the Project, and discussion on safety procedures for maintenance activities. In addition to the toolbox talks, Ferrovial Services conducts a weekly progress meeting. This is a forum for feedback from staff on Operations, Incident Response, and Maintenance activities.

Toolbox Talks this month included:

- 1910.134 App D - Employees Using Respirators
- Science of Sleep
- Sleep Cycles
- Sleep Deprivation
- Fatigue

A. Summary of the Planned Maintenance Activities for the Upcoming Month – September 2018

Ferrovial Services has identified the upcoming planned maintenance activities as described in Table 1.7.1.3 of The Maintenance Management Plan. These activities include preventative and routine maintenance in order to successfully operate and maintain the Project. A listing of the planned maintenance activities for the month of September 2018 is included below.

FIG. A-1 Planned Maintenance Activities for September 2018

X – INDICATES

THE DAY THE TASK IS PLANNED.

Performance Standard Identification Number (Table 6.1)	Work Activity-Description	Frequency	Sep-18																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
ML-1	MAINTENANCE PATROL	Daily				X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X		
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52					X					X									X							X				
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52					X					X									X							X				
ML-9	CONCRETE SEALING	F-1																X	X	X	X					X	X	X	X			
ML-4	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12											X																			
ML-2	DRAINAGE (INLET) OBSERVE/ CLEAN / REPAIR	F-12						X																								
ML-2	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12						X																								
ML-5.1	GUARDRAIL, SAFETY BARRIER																		X	X												
ML-6	SIGN OBSERVATION / REPAIR	F-52				X					X								X								X					
ML-8	STREET LIGHTING OBSERVATION /REPAIR	F-52				X					X								X								X					
ML-8	ELECTRICAL SUPPLY INSPECTION / REPAIR	F-12																										X				
ML-8	ACCESS PANEL OBSERVATION / REPAIR	F-12																									X					
ML-10	HERBICIDE & WEED CONTROL MAINTENANCE	F-52					X					X									X							X				
ML-12	GRAFFITI OBSERVATION / REMOVAL	F-52					X					X									X											
ML-14	MECHANICAL ROAD SWEEPING	F-12																X	X	X	X											
ML-14	LITTER OBSERVATION / REMOVAL	Daily				X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X		
ML-15	NODE BUILDING 2 MAINTENANCE	F-1												X																		
ML-15	SAND STORAGE DOME MAINTENANCE	F-1											X																			
ML-15	LIQUID STORAGE FACILITY MAINTENANCE	F-1										X																				
	REVERSIBLE LANE OPERATIONS	Daily			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X		

Frequency of Activity:

Daily – Daily Activity

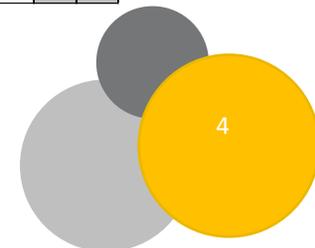
F-4 – Quarterly Activity

F-52 – Weekly Activity

F-2 – Semi-Annual Activity

F-12 – Monthly Activity

F-1 – Annual Activity



B. Summary of Performed and Completed Maintenance Activities

Fig. B-1 Performed and Complete Maintenance Activities for August 2018

X Indicates the day of the month that the task was completed.

Performance Standard Identification Number (Table 6.1)	Work Activity-Description	Frequency	Aug-18																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
ML-1	MAINTENANCE PATROL	Daily	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X
ML-1	FLEXIBLE PAVEMENT OBSERVATION / REPAIR	F-52	X							X						X							X								X		
ML-1	RIGID PAVEMENT OBSERVATION / REPAIR	F-52	X							X						X							X								X		
ML-4	DELINEATORS & MARKERS OBSERVE / CLEAN / REPAIR	F-12												X																			
ML-2	DRAINAGE STRUCTURE (INLET) INSPECTION	F-1												X																			
ML-2	DRAINAGE (INLET) OBSERVE/ CLEAN / REPAIR	F-12																				X											
ML-2	DRAINAGE (PIPE/CULVERT) OBSERVE / CLEAN / RPR	F-12																				X											
ML-5.1	GUARDRAIL, SAFETY BARRIER																					X	X										
ML-6	SIGN OBSERVATION / REPAIR	F-52						X							X						X								X				
ML-8	ELECTRICAL SUPPLY INSPECTION / REPAIR	F-12																X															
ML-8	ACCESS PANEL OBSERVATION / REPAIR	F-12																X															
ML-10	HERBICIDE & WEED CONTROL MAINTENANCE	F-52		X							X							X						X							X		
ML-12	GRAFFITI OBSERVATION / REMOVAL	F-52							X							X						X								X			
ML-14	MECHANICAL ROAD SWEEPING	F-12																				X	X	X	X				X				
ML-15	NODE BUILDING 2 MAINTENANCE	F-1											X																				
ML-15	SAND STORAGE DOME MAINTENANCE	F-1																X															
	REVERSIBLE LANE OPERATIONS	Daily	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	X			X	X	X	X	

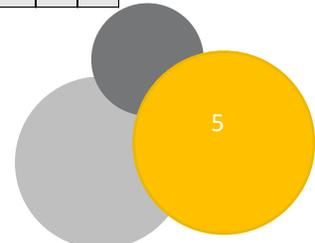


Fig. B-2 Work Accomplished This Month

Activity	Actual Work
152 Asphalt Pavement Surface Rpr (YD2)	4
153 Concrete Pavemnt Surface Rpr (YD2)	0.75
162 Surface Shoulder Rprs (MI)	2
202 Clean Drains (EA)	20
210 Slope Repairs (YD3)	64.5
218 Debris in Roadway (HR)	19.5
218 Litter Barrel Trash Cleanup (YD3)	66.5
220 Sweeping (Mech) (MI)	120
222 Sweeping - Hand (HR)	32
252 Veg Cntrl Mowing/Machine (ACR)	22
254 Veg Cntrl Hnd/Chem (HR)	66
301 Misc Sign Maint (EA)	2
304 Del Post Maint (EA)	102
306 Metal Guardrail Maint (LF)	55
314 Reversible Lane Ops (HR)	308
329 Courtesy Assistance (HR)	379.5
540 Graffiti Removal (SF)	600

C. Summary of Planned Maintenance that was Not Completed for the Month

Ferrovial Services completed all scheduled maintenance activities for the period of August, 2018. Frequencies and/or actual date of the month of some activities may have been adjusted based on actual conditions.

D. Summary of the Maintenance Activities and Results Performed for the Month Beyond Planned Maintenance

A summary of unplanned maintenance activities provided below:

Snow and Ice Control: None

Courtesy Patrol: None

Hazardous Materials Incidents: None

E. Operating Contractor's Incident Response Logs Related to Maintenance Activities

This section provides a summary of Ferrovial Services performance related to the Performance and Measurement Criteria listed in Appendix 6-1.1 of the Operating Contract.

The table below provides a listing of items recorded this month:

Element Category	Description	Location	BRS Notified	Response to Defects		
				Category 1		Category 2
				Hazard Mitigation	Permanent Remedy	Permanent Repair
GP5.1	Guardrail (Impact Damage)	I-25 MP 217.22 NB	4/16/2018 15:29:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP 8.2	Sign Lighting (L2 Light Out)	US36 MP 56.90 EB	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (South Bulb Out)	040-U36-LHT-0230, MP 56.73	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (South Bulb Out)	040-I25-LHT-0070, MP 214.85	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (All Bulbs Out)	040-I25-LHT-0050, MP 214.73	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP 8.2	Sign Lighting (L1 Light Out)	US36 MP 56.60	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP 8.2	Sign Lighting (L3 Light Out)	US36 MP 56.60	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP 8.2	Sign Lighting (L2 Light Out)	US36 MP 56.60	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (South Bulb Out)	040-U36-LHT-0190, MP 56.47	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (East Bulb Out)	040-U36-LHT-0150, MP 56.22	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (North Bulb Out)	040-I25-LHT-0100, MP 215.02	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (All Bulbs Out)	040-I25-LHT-0020, MP 214.56	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML 8.1	Lighting (West Bulb Out)	040-U36-LHT-0220, MP 56.66	5/2/2018 22:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP6.1	Traffic Sign (Impact Damage)	US36 MP 49.35 WB	5/4/2018 07:30:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP9.1	Fence (Impact Damage)	US36 MP 49.35 WB	5/9/2018 13:36:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP9.1	Fence (Impact Damage)	US36 MP 42.20 EB	5/14/2018 08:51:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP6.1	Traffic Sign (Impact Damage)	US36 MP 57.10 EB	5/15/2018 03:30:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP6.1	Traffic Sign (Impact Damage)	US36 MP 46.80 EB	5/16/2018 15:00:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP11.2	Erosion (Hail Storm Damage)	US36 MP 40-43.4	5/19/2018 19:16:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress

Element Category	Description	Location	BRS Notified	Response to Defects		
				Category 1		Category 2
				Hazard Mitigation	Permanent Remedy	Permanent Repair
GP6.1	Traffic Sign (Impact Damage)	US36 MP 53.0 WB	6/26/2018 15:10:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML6.1	Sign (Impact Damage)	US36 MP 53.25 WB	7/6/2018 11:15:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML5.1	Median Barrier (Impact Damage)	US36 MP 53.25	7/6/2018 11:15:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP6.1	Sign (Impact Damage)	US36 MP 43.1 EB	7/10/2018 11:20:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP1.1	Debris (Debris Reported, Nothing Found)	US36 MP 45.0	8/2/2018 10:27:00	Reqd: 1 Hours Respnd: 8/2/2018 11:10 Actual: 0.71 Hours	N/A	N/A
GP5.1	Guardrail (Impact Damage)	US36 MP 43.10 EB	8/3/2018 15:50:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
ML1.1	Debris (Cleared Truck Bed Liner from Lanes)	I25 MP 217	8/6/2018 19:18:00	Reqd: 1 Hours Respnd: 8/6/2018 19:47 Actual: 0.48 Hours	N/A	N/A
GP1.1	Debris (Cleared Raccoon from Lanes)	US36 MP 39.5 WB	8/9/2018 09:24:00	Reqd: 1 Hours Respnd: 8/9/2018 09:31 Actual: 0.11 Hours	N/A	N/A
GP1.1	Debris (Cleared Raccoon from Lanes)	US36 MP 40.6 WB	8/10/2018 08:00:00	Reqd: 1 Hours Respnd: 8/10/2018 08:55 Actual: 0.91 Hours	N/A	N/A
GP1.1	Debris (Cleared Mattress from Lanes)	US36 MP 43.0 WB	8/10/2018 13:54:00	Reqd: 1 Hours Respnd: 8/10/2018 14:07 Actual: 0.21 Hours	N/A	N/A
ML1.1	Debris (Cleared Bookcase from Lanes)	US36 MP 45.57 EB	8/15/2018 18:18:00	Reqd: 1 Hours Respnd: 8/15/2018 19:09 Actual: 0.85 Hours	N/A	N/A
GP1.1	Debris (Debris Reported, Nothing Found)	US36 MP 56.0 EB	8/16/2018 20:54:00	Reqd: 1 Hours Respnd: 8/16/2018 21:16 Actual: 0.36 Hours	N/A	N/A
GP1.1	Debris (Cleared Debris from Lanes)	US36 MP 48.4 WB	8/21/2018 09:15:00	Reqd: 1 Hours Respnd: 8/21/2018 10:05 Actual: 0.83 Hours	N/A	N/A
GP1.1	Debris (Cleared Trash from Lanes)	US36 MP 50.4 WB	8/23/2018 08:42:00	Reqd: 1 Hours Respnd: 8/23/2018 09:15 Actual: 0.54 Hours	N/A	N/A
GP5.1	Guardrail (Impact Damage)	US36 MP 40.2 WB	8/23/2018 07:56:00	N/A	N/A	Reqd: 6 Months Respnd: -- Actual: In Progress
GP1.1	Debris (Debris Reported, Nothing Found)	US36 MP 54.0 WB	8/24/2018 15:14:00	Reqd: 1 Hours Respnd: 8/24/2018 15:53 Actual: 0.65 Hours	N/A	N/A
GP1.1	Debris (Debris Reported, Nothing Found)	US36 MP 50.3 WB	8/26/2018 13:52:00	Reqd: 1 Hours Respnd: 8/26/2018 14:35 Actual: 0.71 Hours	N/A	N/A
GP1.1	Debris (Cleared Wood from Lanes)	US36 MP 50.6 WB	8/29/2018 22:32:00	Reqd: 1 Hours Respnd: 8/29/2018 22:56 Actual: 0.40 Hours	N/A	N/A
GP1.1	Debris (Cleared Wood from Lanes)	US36 MP 52.2 WB	8/29/2018 15:09:00	Reqd: 1 Hours Respnd: 8/29/2018 15:37 Actual: 0.46 Hours	N/A	N/A
GP1.1	Debris (Cleared Debris from Lanes)	US36 MP 54.1 WB	8/30/2018 08:14:00	Reqd: 1 Hours Respnd: 8/30/2018 08:50 Actual: 0.60 Hours	N/A	N/A
GP13.1	Incident Response (Responded to Accident per WPD Request)	US36 MP 39.3 WB	8/30/2018 09:16:00	Reqd: 1 Hours Respnd: 8/30/2018 10:06 Actual: 0.83 Hours	N/A	N/A

All items were completed within the required response time. Items that are *In Progress* are still within the allowed response time.

F. Detailed Results of All Inspections, Assessments, and Testing Activities

During this reporting period there were no special inspections, assessments, or testing results outside normal operating condition.

G. Monthly Toll System Performance Reports

Toll system operated within proposed parameters per Ferrovial Services observations.

H. Preventative Maintenance Plan and Progress

Preventative Maintenance work is contingent on Initial Works Package implementation.

I, J. Mean Time between Failure (MTBF), Mean Time To Repair (MTTR)

No Maintained Elements experienced a failure type breakdown this month. Ferrovial Services considers a breakdown to be a failure when the element cannot be used for its intended purpose until repaired.