

# Appendix A: Pilot Site Summary Details



### A1. Pilot Site Summary Details (1 of 2)

Vendor Name	TAPCO	FLIR	SICK	Conduent
Vendor Address	5100 W. Brown Deer Rd,	27700 SW Parkway Ave,	6900 W. 110 <sup>th</sup> St	100 Campus Dr #200
	Milwaukee, WI 53223	Wilsonville, OR 97070	Minneapolis, MN 55438	Florham Park, NJ 07932
Vendor Website	www.tapconet.com	www.flir.com	www.sick.com	www.conduent.com
Site Location	Davis Drive Off-ramp	Davis Drive Off-ramp	NC-54 Off-ramp	T17/T18 Toll Zone
Maintenance Agreement?	No	No	No	No
Date of Commisioning	February 2018	July 2018	October 2018	March 2018
Date of Decommission	N/A	N/A	N/A	N/A
Detection Type	Microwave Radar	Thermal	Radar Sensor	Toll System Loops
Detection Equipment	ADEC TDC4	TrafiSense 2	SICK AOS301	IDRIS
Camera(s)	Optical (3) Axis Q1765-LE w/IR Illumination	Thermal (2) TrafiSense 2	-	Toll System Camera
Signs	Actuated Flashing LED Beacons (4)	-	-	Actuated Flashing RRFB Sign (2)
Notification Type(s)	Software Alert Email (with image/video)	Software Alert	Text Email	Email
Software	BlinkLink	Flux	TEMS Manager	-
Features	Resolve Prior Events	Audible Alert		
	Reporting Capability	Live Video Capability	-	-
	Event Logging Capability	Reporting Capability		



### A2. Pilot Site Summary Details (2 of 2)

Vendor Name	TraffiCalm	MH Corbin	TransCore
Vendor Address	5676 E. Seltice Way Post Falls, ID 83854	621 Hutton St Raleigh, NC 27606	150 4 <sup>th</sup> Avenue North, Suite 1200 Nashville, TN 37219
Vendor Website	www.trafficalm.com	www.mhcorbin.com	www.transcore.com
Site Description	South Salem Street Off-ramp	Green Level West Road Off-ramp	M01/M13/M14 Toll Zone
Maintenance Agreement?	No	No	Yes
Date of Commisioning	February 2018	April 2020	June 2019
Date of Decommission	N/A	May 2020	N/A
Detection Type	Microwave Radar	LIDAR	Toll System Loops
Detection Equipment	<specific known="" model="" not=""></specific>	Cepton Vista P60	Infinity
Camera(s)	Optical (3) Sigura BL820M1IR With IR Illumination	Thermal (1) Bosch Mic9000i	Toll System Camera
Signs	Actuated Backlit Flashing LED (4)	-	Actuated Flashing RRFB Sign (2)
Notification Type(s)	Software Alert Email (with video)	Cloud Alert Text Email	Software Alert (with video) Email
Software	Glance	Metiri Cloud-Based Dashboard	Client Utility Alert
Features	Audio Alert Limited Event Logging Capability	Annunciator	Audible Alert Visual Alert



# Appendix B: Davis Drive Off-ramp Pilot Site



### **B1. Pilot Site Overview**





# **B2. Front Warning Sign Poles with Antenna**



B3. Front Warning Sign Pole with Antenna (Front/Rear)







### **B4.** Rear Warning Sign Poles with Antenna



B5. Rear Warning Sign Pole with Antenna (Front/Rear)







# **B6.** Double Camera Pole with Antennas







### **B7.** Tapco Detection on Gantry



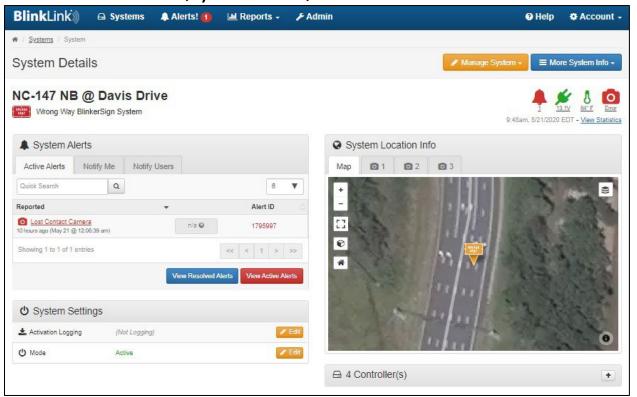
B8. Tapco Detection on Gantry (Front/Rear)



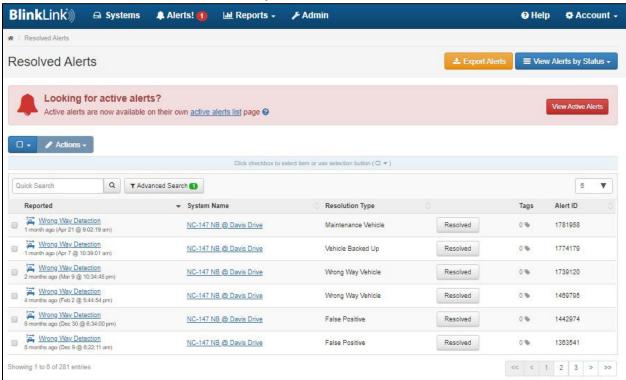




B9. BlinkLink Software (System Details)

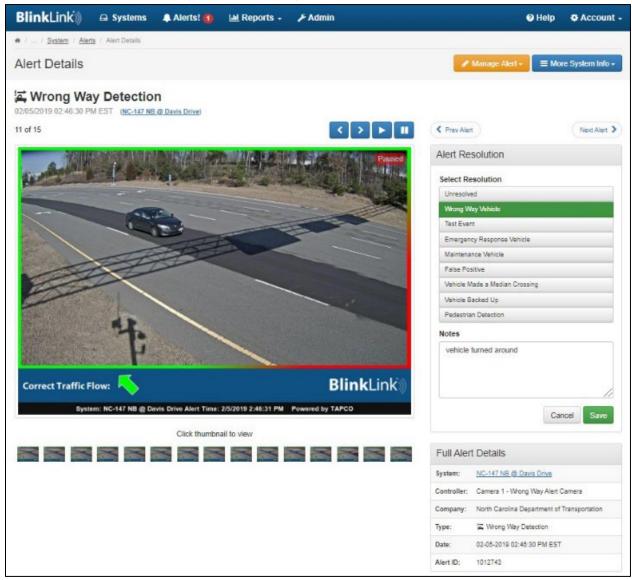


B10. BlinkLink Software (Event Log)

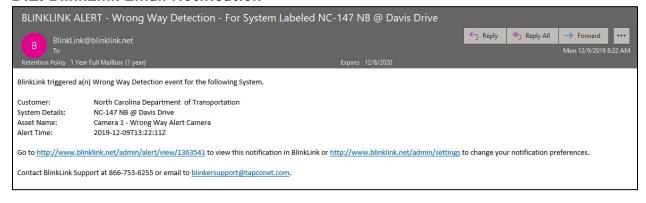




### **B11. BlinkLink Software (Event Details)**



### **B12. BlinkLink Email Notification**





B13. FLIR Camera/Detection on Gantry

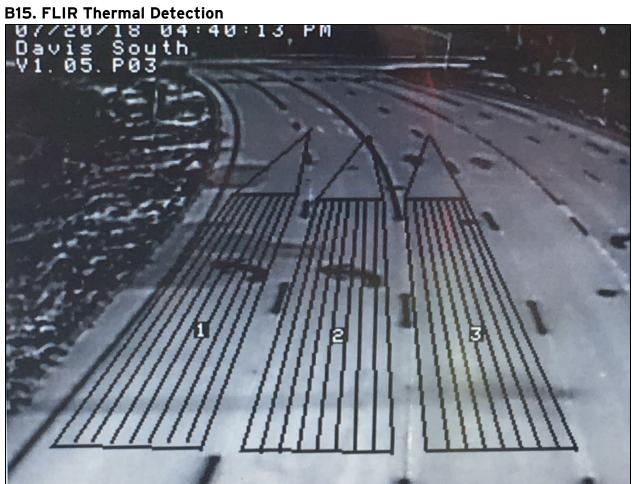


B14. FLIR Camera/Detection on Gantry (Front/Rear)



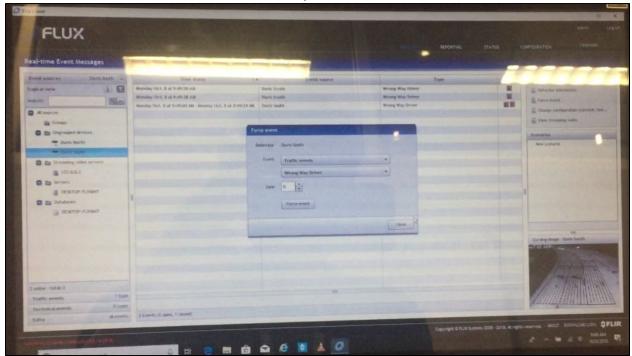








### B16. Flux Software Interface (Event Log)



<sup>\*</sup>No longer have access to Flux software. Working on getting access restored or better screenshot from FLIR.



### B17. Enhanced Traffic Signal Heads at Ramp Intersection



B18. Enhanced Traffic Signs at Ramp Intersection





Appendix C:
NC-54 Off-ramp
Pilot Site

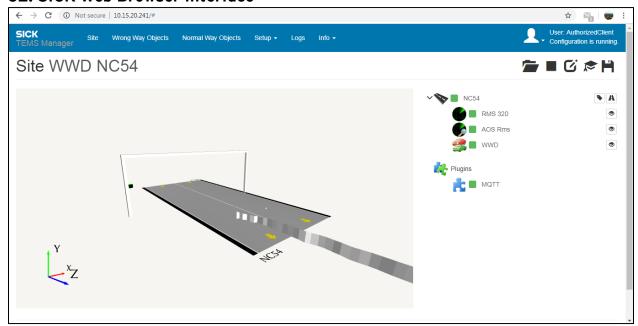


### C1. SICK Detection on Pole





### C2. SICK Web Browser Interface





# Appendix D: Toll NC-540 Mainline Pilot Site



### **D1. Pilot Site Overview**





### D2. TraffiCalm Signs on Poles



D3. TraffiCalm Sign on Pole (Front/Rear)







### D4. TAPCO Signs on Poles with Antenna



D5. TAPCO Sign on Pole with Antenna (Front/Rear)





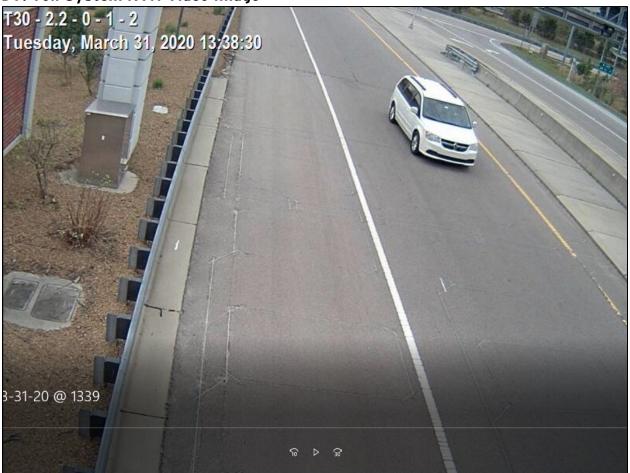


# D6. Antenna on Vault Building





D7. Toll System RVN Video Image





# Appendix E: Green Level West Street Off-ramp Pilot Site



# E1. Initial Mobile Trailer Setup (LIDAR Detection and Thermal Camera)



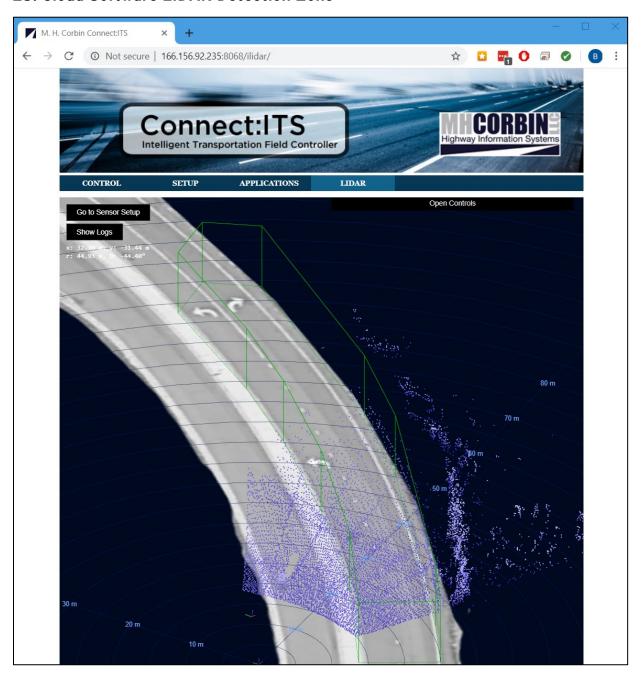


# E2. Revised Pole Mounted Setup (LIDAR Detection and Auto-Tracking Camera)



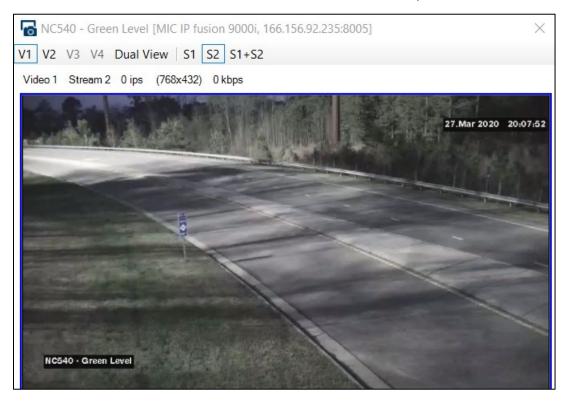


### E3. Cloud Software LIDAR Detection Zone





### E4. Cloud Software Live Video Camera Feed & Settings

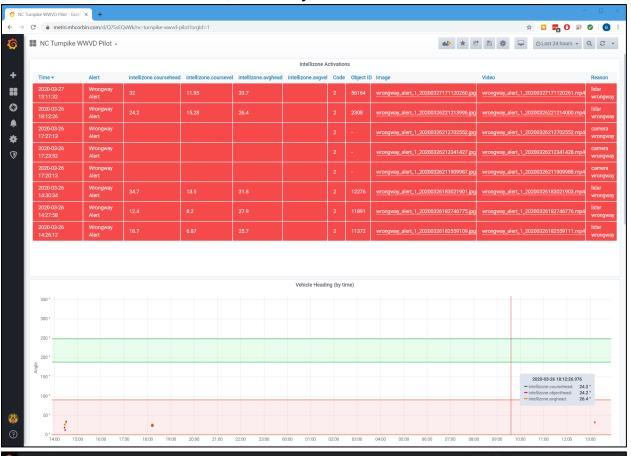


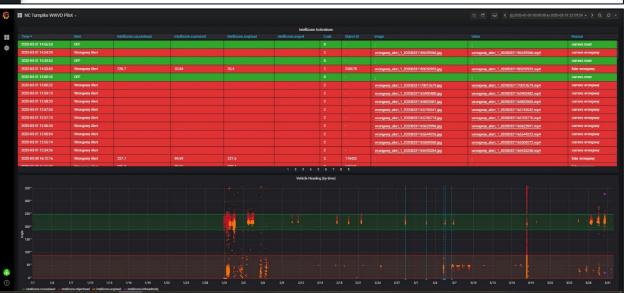
### E5. Cloud Email Notification





### E6. Cloud Software Interface (Event Log)







# Appendix F: South Salem Street Off-ramp Pilot Site



### F1. Pilot Site Overview





### F2. Front Sign Poles with Antenna



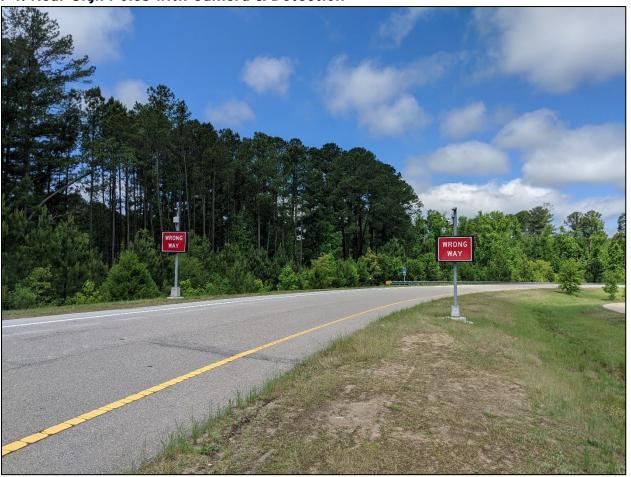
# F3. Front Sign Pole with Antenna (Front/Rear)







# F4. Rear Sign Poles with Camera & Detection





### F5. Rear Sign Pole with Camera/Detection & Antenna (Front/Rear)





F6. Rear Sign Pole with Camera/Detection & Antenna (Front/Rear)







# F7. Downstream Ramp Gore Camera Pole



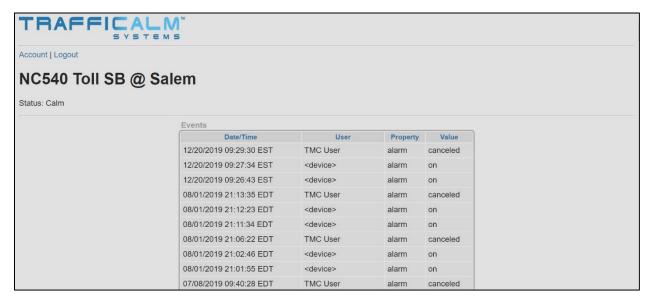




### F8. Glance Software Interface









### F9. Glance Email Notification





# Appendix G: Toll US-74 Business Mainline Pilot Site

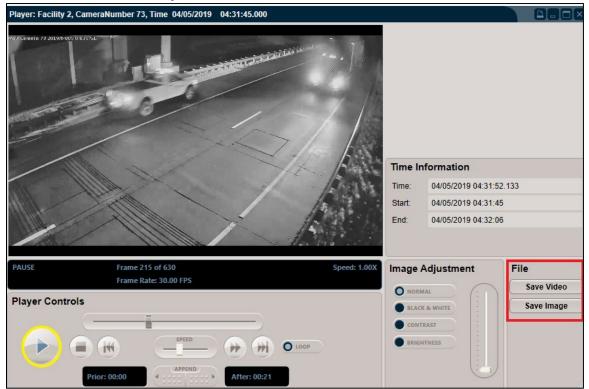


### G1. TAPCO Sign Poles with Antenna





### G2. Client Alert Utility Software (Event Details)



### G3. Client Alert Utility Software (Alert)

