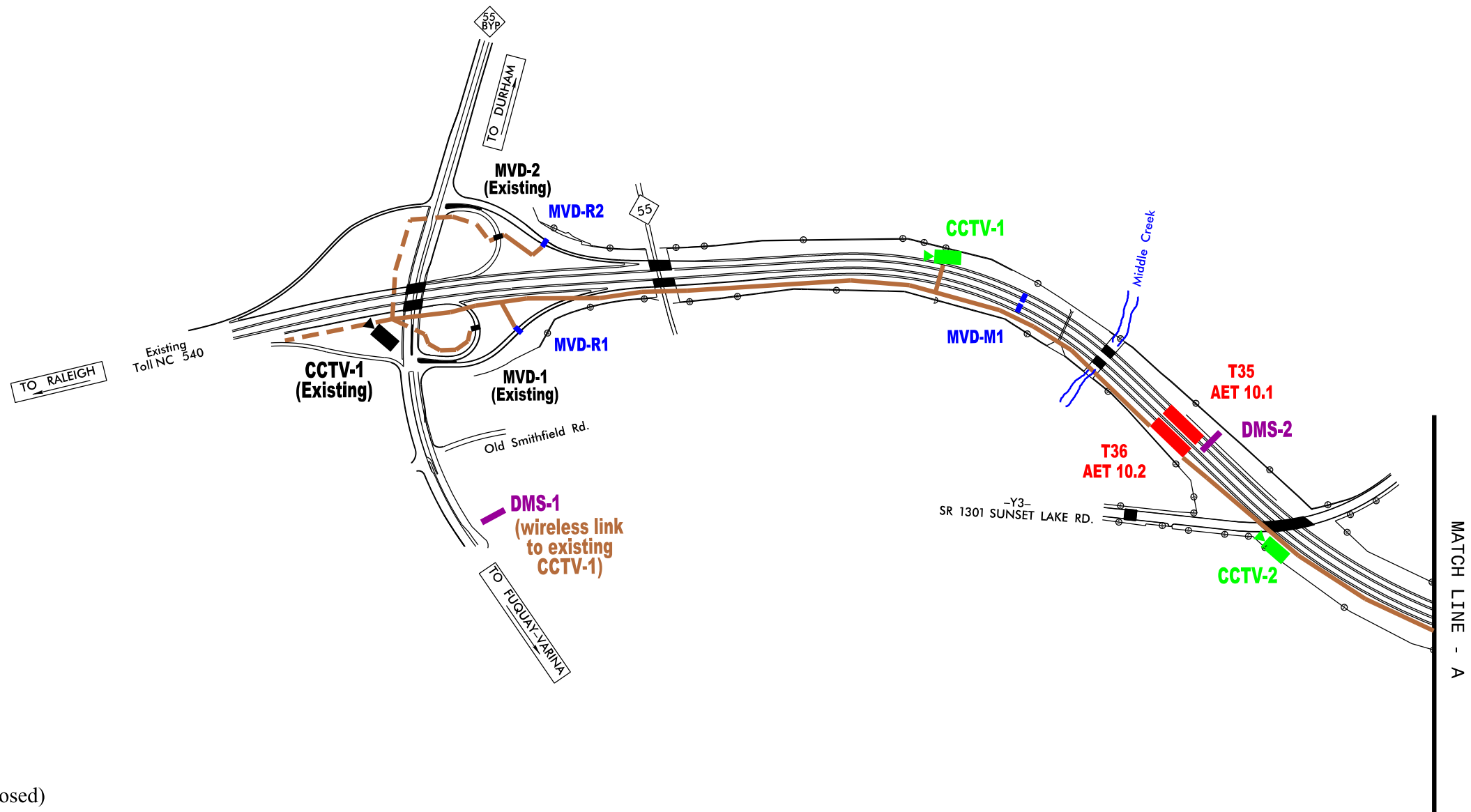


Attachment 13

C540 ITS and AET Concept Plans



Legend

- DMS-9

MVD-47

CCTV-10

RWIS-1
- Color DMS (Dynamic Message Sign) (proposed)

MVD (Microwave Vehicle Detector) (proposed)
M# = Mainline Detectors R# = Ramp Detectors

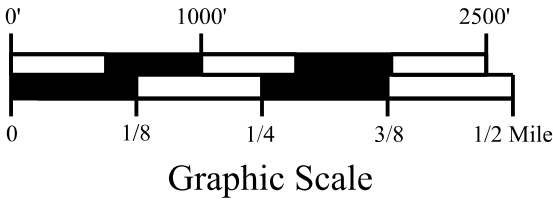
CCTV Camera (proposed)

RWIS (Roadway Weather Information System) (proposed)

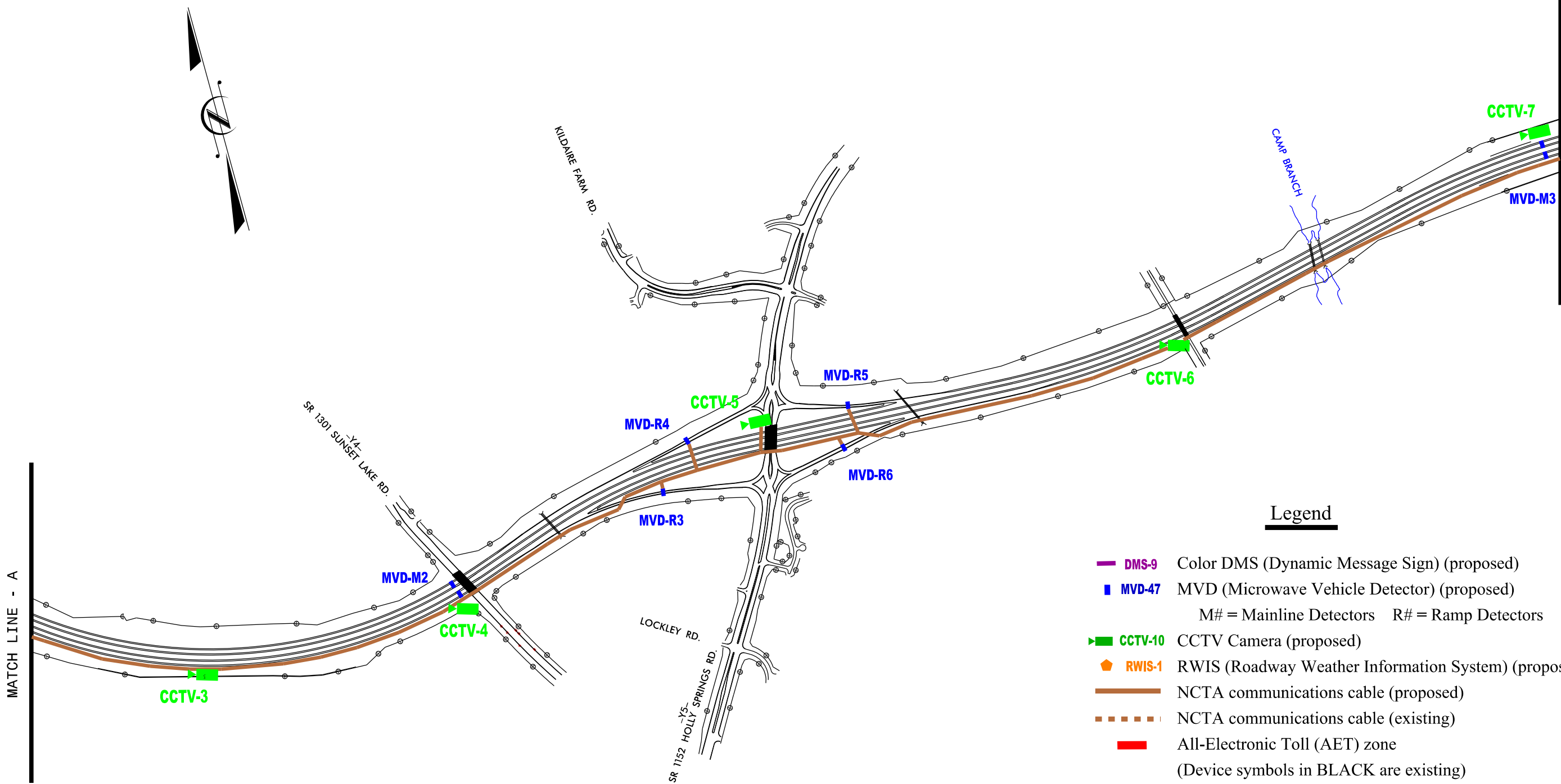
NCTA communications cable (proposed)

NCTA communications cable (existing)

All-Electronic Toll (AET) zone
(Device symbols in BLACK are existing)

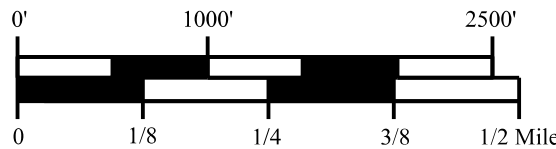


<div><div>ATKINS</div><div>1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES *F-0326</div></div>		
COMPLETE 540 ITS AND AET CONCEPT PLAN		
SCALE: GRAPHIC	NORTH CAROLINA TURNPIKE AUTHORITY	SHEET NO. C-1
DATE: AUG 2017		



Legend

- DMS-9 Color DMS (Dynamic Message Sign) (proposed)
- MVD-47 MVD (Microwave Vehicle Detector) (proposed)
M# = Mainline Detectors R# = Ramp Detectors
- CCTV-10 CCTV Camera (proposed)
- RWIS-1 RWIS (Roadway Weather Information System) (proposed)
- NCTA communications cable (proposed)
- NCTA communications cable (existing)
- All-Electronic Toll (AET) zone
(Device symbols in BLACK are existing)



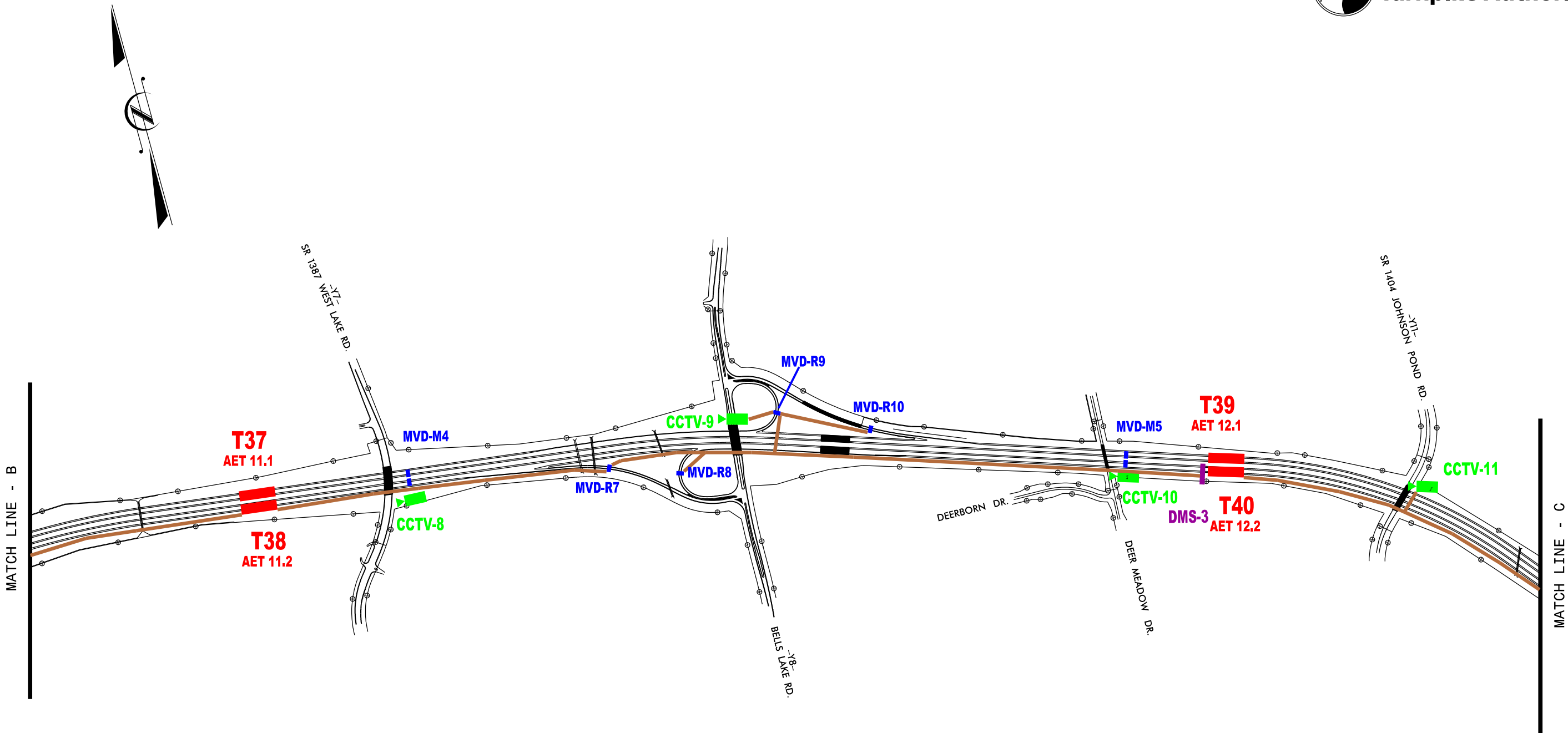
Graphic Scale

ATKINS








1616 EAST MILLBROOK ROAD, SUITE 1600
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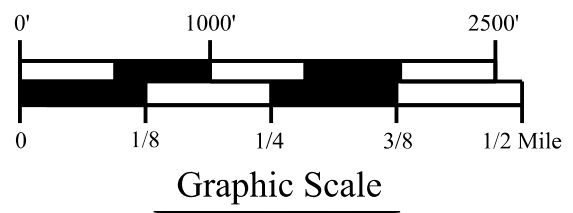
COMPLETE 540
ITS AND AET CONCEPT PLAN

SCALE: GRAPHIC	NORTH CAROLINA TURNPIKE AUTHORITY	SHEET NO. C-2
DATE: AUG 2017		



Legend

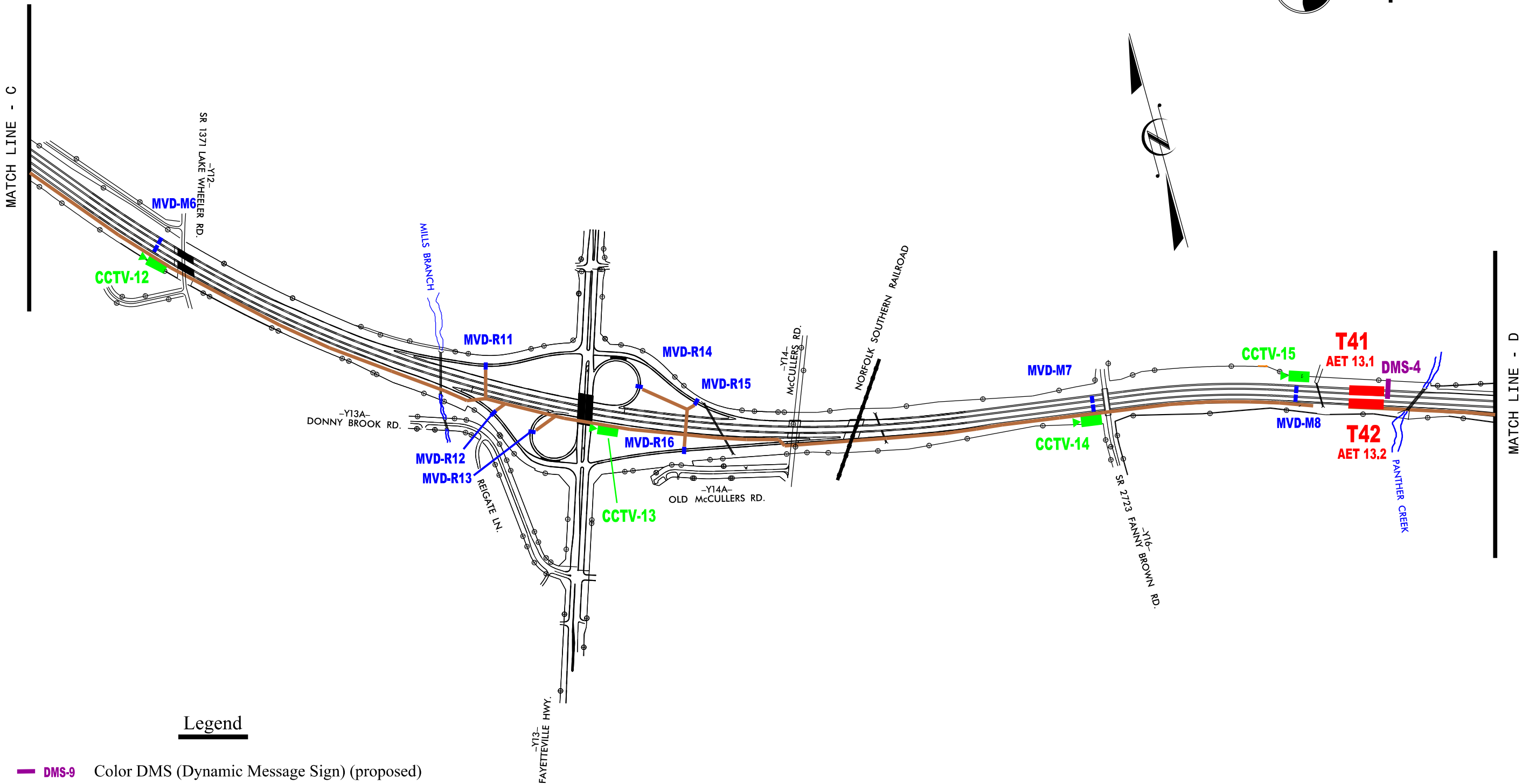
-  **DMS-9** Color DMS (Dynamic Message Sign) (proposed)
-  **MVD-47** MVD (Microwave Vehicle Detector) (proposed)
M# = Mainline Detectors R# = Ramp Detectors
-  **CCTV-10** CCTV Camera (proposed)
-  **RWIS-1** RWIS (Roadway Weather Information System) (proposed)
-  NCTA communications cable (proposed)
-  NCTA communications cable (existing)
-  All-Electronic Toll (AET) zone
(Device symbols in BLACK are existing)










1616 EAST MILLBROOK ROAD, SUITE 160
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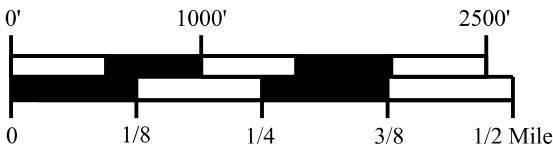
COMPLETE 540
ITS AND AET CONCEPT PLAN

SCALE: GRAPHIC	NORTH CAROLINA TURNPIKE AUTHORITY	SHEET NO. C-3
DATE: AUG 2017		



Legend

-  **DMS-9** Color DMS (Dynamic Message Sign) (proposed)
-  **MVD-47** MVD (Microwave Vehicle Detector) (proposed)
M# = Mainline Detectors R# = Ramp Detectors
-  **CCTV-10** CCTV Camera (proposed)
-  **RWIS-1** RWIS (Roadway Weather Information System) (proposed)
-  NCTA communications cable (proposed)
-  NCTA communications cable (existing)
-  All-Electronic Toll (AET) zone
(Device symbols in BLACK are existing)



Graphic Scale

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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(919) 876-6888 NCBEES *F-0326

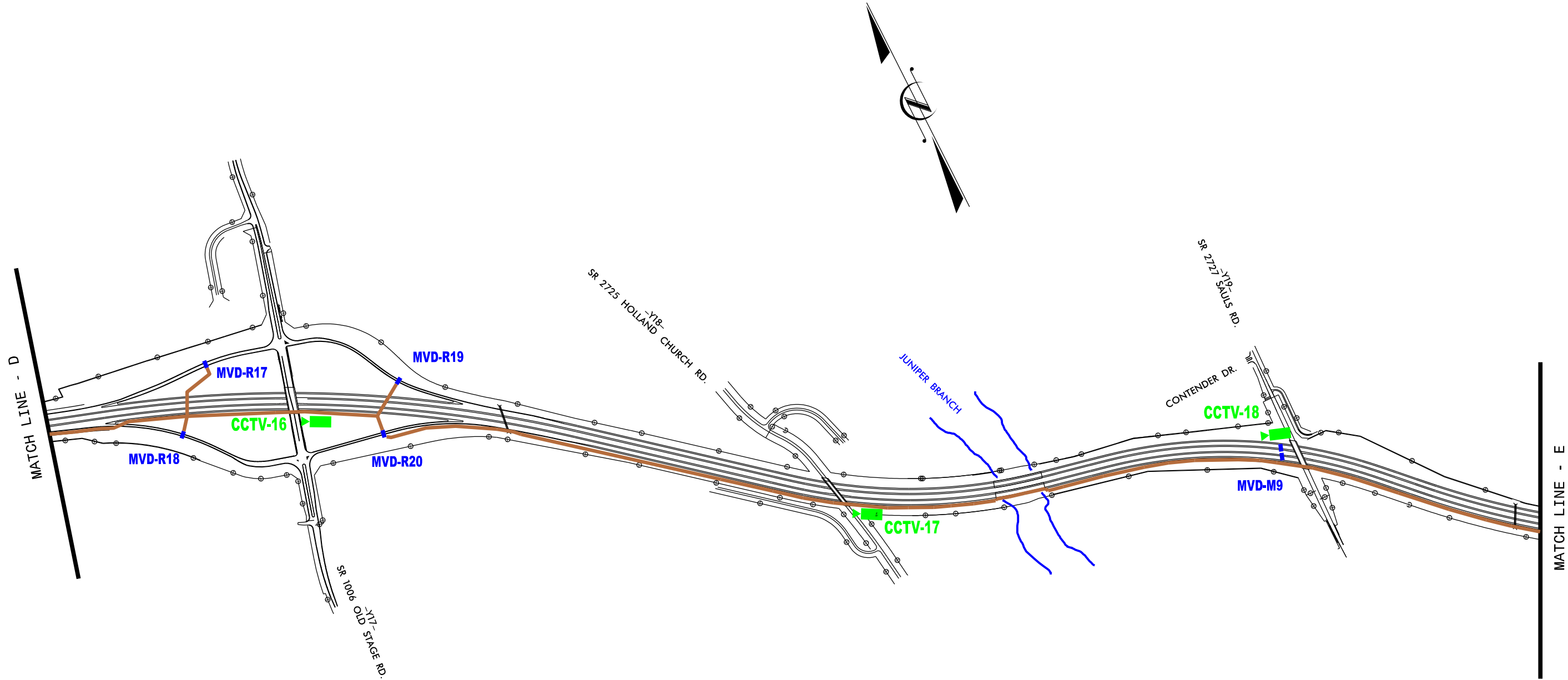
COMPLETE 540
ITS AND AET CONCEPT PLAN

SCALE: GRAPHIC
DATE: AUG 2017

NORTH CAROLINA
TURNPIKE AUTHORITY

SHEET NO.

C-4



- Legend
- DMS-9

Color DMS (Dynamic Message Sign) (proposed)

MVD-47

MVD (Microwave Vehicle Detector) (proposed)

M# = Mainline Detectors R# = Ramp Detectors

CCTV-10

CCTV Camera (proposed)

RWIS-1

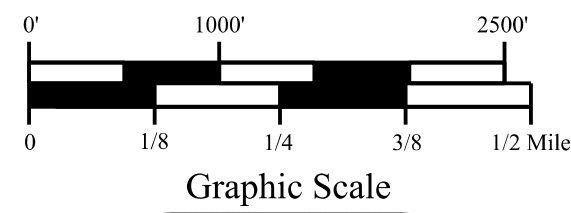
RWIS (Roadway Weather Information System) (proposed)

NCTA communications cable (proposed)

NCTA communications cable (existing)

All-Electronic Toll (AET) zone

(Device symbols in BLACK are existing)



ATKINS

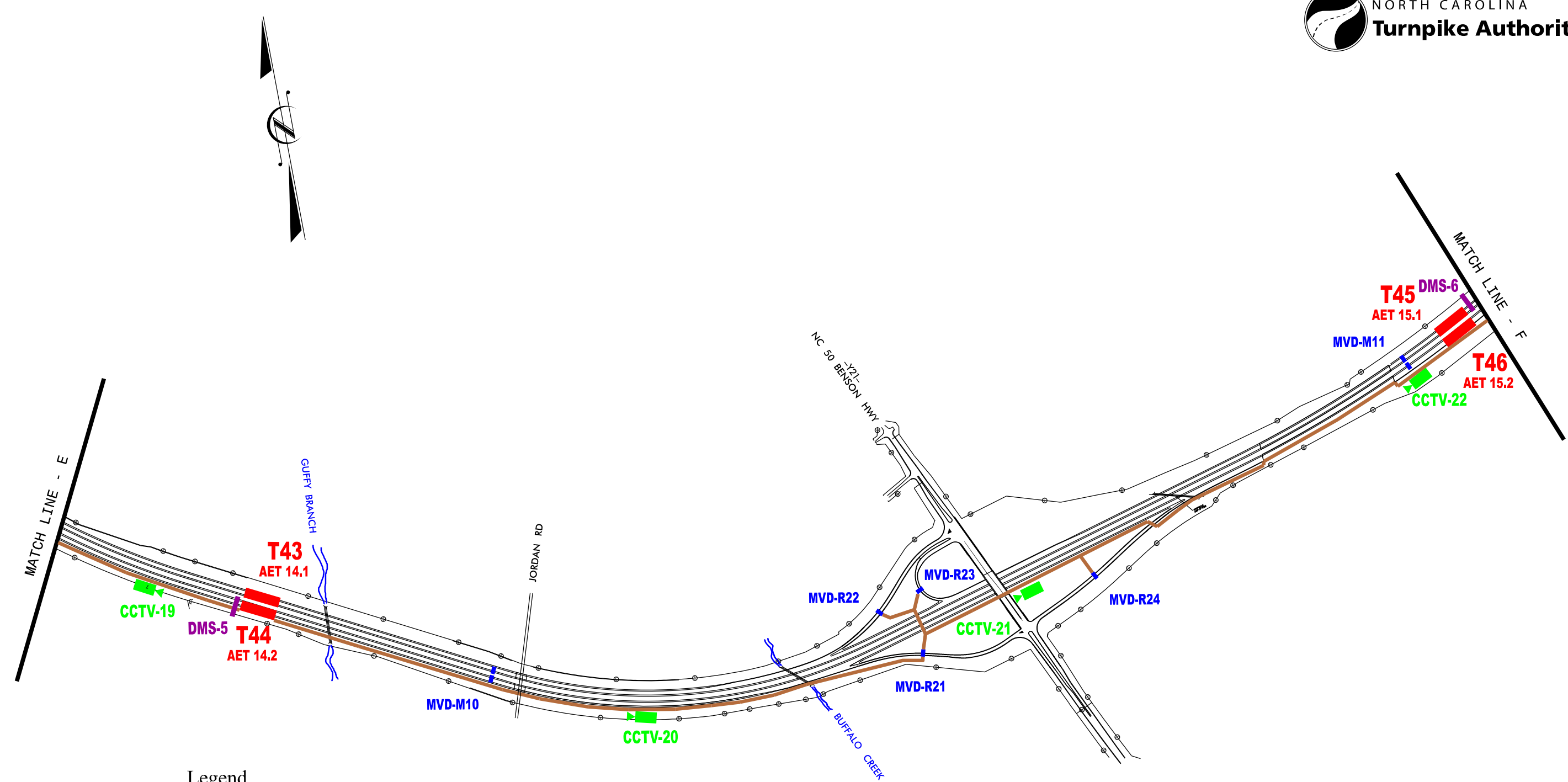
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES *F-0326

COMPLETE 540
ITS AND AET CONCEPT PLAN

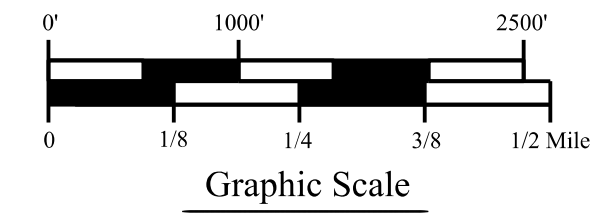
SCALE: GRAPHIC
DATE: AUG 2017

NORTH CAROLINA
TURNPIKE AUTHORITY

SHEET NO.
C-5



- Legend**
- **DMS-9** Color DMS (Dynamic Message Sign) (proposed)
 - **MVD-47** MVD (Microwave Vehicle Detector) (proposed)
M# = Mainline Detectors R# = Ramp Detectors
 - ▶ **CCTV-10** CCTV Camera (proposed)
 - ◆ **RWIS-1** RWIS (Roadway Weather Information System) (proposed)
 - NCTA communications cable (proposed)
 - - - NCTA communications cable (existing)
 - All-Electronic Toll (AET) zone
(Device symbols in BLACK are existing)



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES *F-0326		
COMPLETE 540 ITS AND AET CONCEPT PLAN		
SCALE: GRAPHIC	NORTH CAROLINA TURNPIKE AUTHORITY	SHEET NO. C-6
DATE: AUG 2017		

