

NOTES:

1.

IN ORDER TO MEET CLEAR ZONE REQUIREMENTS, FIXED OBJECTS SHALL BE PLACED WITH APPROPRIATE OFFSET AS DEFINED IN THE GDOT DESIGN POLICY MANUAL OR AASHTO'S "ROADSIDE DESIGN GUIDE", OR BE PROTECTED BY GUARDRAIL. FOR GUARDRAIL APPLICATIONS, PROVIDE A MINIMUM SPACING OF 6 FEET BETWEEN THE FACE OF THE GUARDRAIL AND THE FACE OF ALL OBJECTS BEHIND THE GUARDRAIL.
2.

CABINETS SHALL BE PLACED 18 FEET FROM EDGE OF RAMP TRAVEL LANE OR AT SHOULDER BREAK POINT, WHICHEVER DISTANCE IS LESS, OR BEHIND GUARDRAIL.
3.

FIBER OPTIC/VIDEO CABLING SHALL BE RUN THROUGH TYPE 4S PULL BOXES. POWER CABLING SHALL BE RUN THROUGH TYPE 2 PULL BOXES. TYPE 2 PULL BOXES SHALL BE SPACED A MAXIMUM OF 200 FEET APART ALONG CONDUIT RUNS FOR QUEUE LOOP LEAD-INS. TYPE 4S PULL BOXES SHALL BE SPACED A MAXIMUM OF 750 FEET APART ALONG CONDUIT RUNS.
4.

SEPARATE CONDUITS SHALL BE PROVIDED FOR FIBER OPTIC CABLE, IVDS CABLE, SIGNAL CABLE, AND LOOP LEAD-IN CABLE. THE CONTRACTOR SHALL ENSURE THAT THESE CABLES ARE ROUTED THROUGH INDIVIDUAL CONDUITS. LOOP LEAD-IN CABLES FOR THE INTERMEDIATE QUEUE (IQ) DETECTORS AND EXCESSIVE QUEUE (EQ) DETECTORS SHALL ALSO BE ROUTED THROUGH SEPERATE CONDUITS.
5.

A SPARE CONDUIT SHALL BE PROVIDED AT ANY BORED CONDUIT RUN LOCATIONS, AND/OR CONDUIT RUNS BETWEEN THE RAMP METER SIGNAL AND THE CABINET.
6.

IN-PAVEMENT LOOPS OR MAGNETOMETERS (NOT SHOWN) SHALL BE USED FOR DEMAND, PASSAGE, AND QUEUE DETECTION. IVDS CAMERA DETECTION SHALL BE USED FOR MAINLINE TRAFFIC FLOW DETECTION.
7.

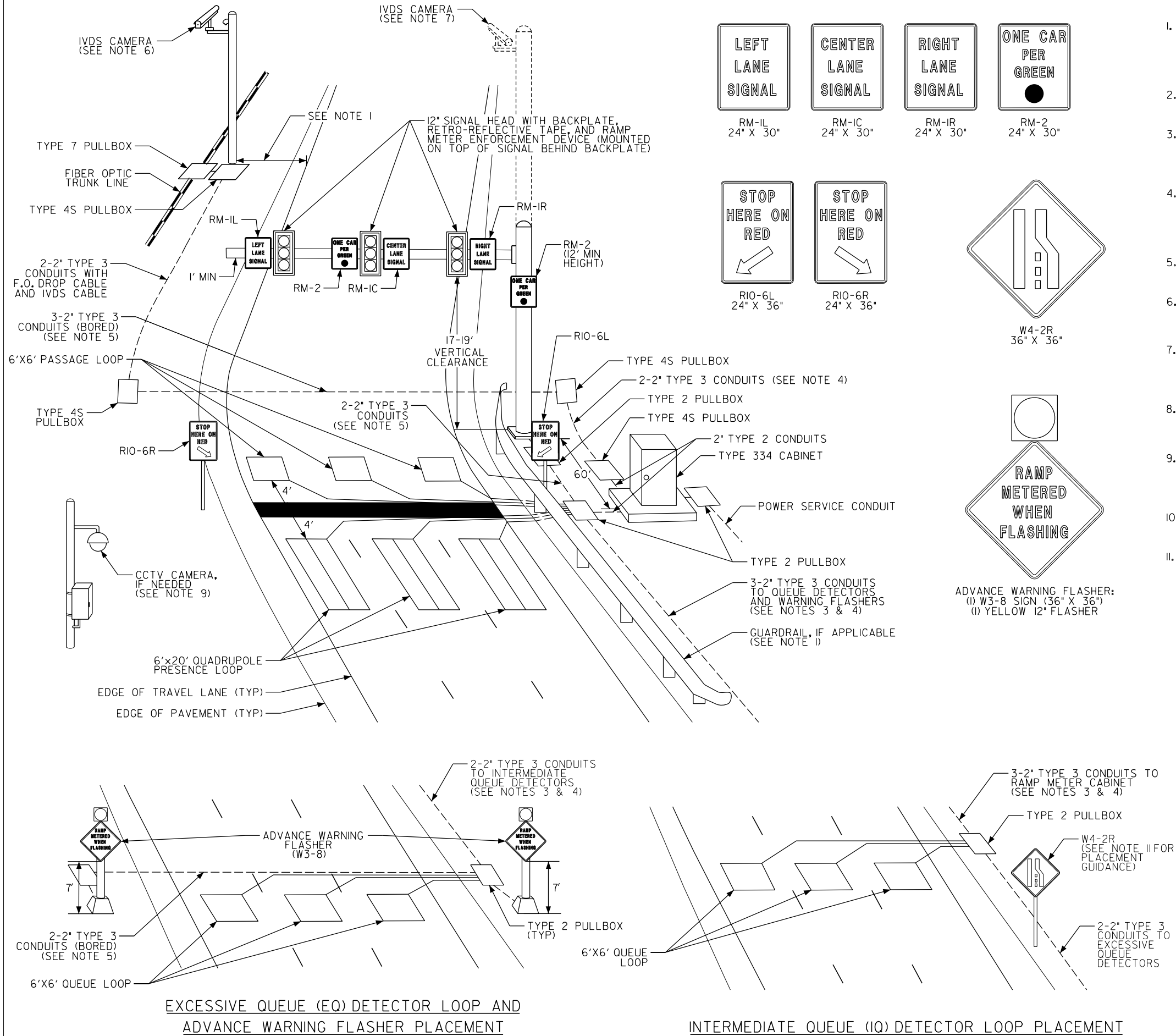
IN APPLICATIONS WHERE THE IVDS CAMERA WILL BE INSTALLED ON A LUMINAIRE ARM DIRECTLY OFF OF THE MAST ARM STRAIN POLE (UPRIGHT), THE HEIGHT OF THE UPRIGHT SHALL BE A MINIMUM OF 40'-0" FROM THE RAMP TRAVEL WAY AT THE STOP BAR TO ENSURE PROPER MAINLINE DETECTION.
8.

IF SITE CONSTRAINTS PREVENT THESE METHODS FROM BEING FEASIBLE, ALTERNATIVE DETECTION METHODS MAY BE UTILIZED ONLY WITH PRIOR APPROVAL FROM GDOT. REFER TO GDOT ITS DETAIL SHEETS FOR MAINLINE DETECTION DEVICE INSTALLATION INFORMATION.
9.

IF NEEDED, CCTV CAMERAS SHALL BE PLACED TO MONITOR THE RAMP METER STOP BAR, DISCHARGE AREA, AND THE OPERATION OF RAMP METER SIGNAL HEADS. REFER TO GDOT ITS DETAIL SHEETS FOR INSTALLATION INFORMATION. IF EXISTING CAMERA(S) IN THE AREA CAN VIEW THESE ITEMS/AREAS, NO ADDITIONAL DEVICE SHALL BE REQUIRED.
10.

RAMP METERS INSTALLED OUTSIDE OF THE EXISTING GDOT FIBER COMMUNICATIONS NETWORK SHALL HAVE A 4G MODEM INSTALLED WITHIN THE CABINET.
11.

MERGE SIGNAGE SHALL BE INSTALLED AS FOLLOWS:
- FOR RAMPS WITH A STORAGE LENGTH OF LESS THAN 1,000 FEET, INSTALL (1) W4-2R SIGN 325 FEET UPSTREAM OF THE STOP BAR
- FOR RAMPS WITH A STORAGE LENGTH GREATER OR EQUAL TO 1,000 FEET, INSTALL (1) W4-2R SIGN 325 FEET UPSTREAM OF THE STOP BAR AND (1) W4-2R SIGN 150 FEET DOWNSTREAM OF THE ADVANCE WARNING FLASHERS.



				DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
				REVISION	CONSTRUCTION DETAIL
					ITS - RAMP METER INSTALLATION
					TRIPLE LANE METER DETAILS
			BY	NOVEMBER 2020 NO SCALE	NUMBER ITS-5IC