

TABLE-B.2

SENSOR ADVANTAGES AND DISADVANTAGES

SENSOR	ADVANTAGES	DISADVANTAGES
MICROWAVE/ MILLIMETER WAVE RADAR	<ul style="list-style-type: none"> *MATURE TECHNOLOGY *DETECT VELOCITY DIRECTLY *MULTILANE COVERAGE *IN MOST CASES NO FCC APPROVAL IS REQUIRED 	<ul style="list-style-type: none"> *SIDELOBE RADIATION *MULTIPATH
INFRARED	<ul style="list-style-type: none"> *DAY AND NIGHT OPERATION *OVERHEAD AND SIDE MOUNT CONFIGURATIONS 	<ul style="list-style-type: none"> *SENSITIVE TO INCLEMENT WHEATHER AND AMBIENT LIGHT
VIDEO IMAGE PROCESSOR	<ul style="list-style-type: none"> *ROADWAY MOUNTED *VARIABLE DETECTION ZONES *VEHICLE TRACKING *VEHICLE IDENTIFICATION 	<ul style="list-style-type: none"> *DETECTION ARTIFACTS CAUSED BY SHADOWS, WEATHER, AND REFLECTIONS
ULTRASONIC	<ul style="list-style-type: none"> *ALL-WEATHER OPERATION *FIXED OR PORTABLE MOUNTING 	<ul style="list-style-type: none"> *MOUNTING SHOULD BE PERPENDICULAR TO TARGET *DIFFICULT IDENTIFYING LANE-STRADDLING VEHICLES AND VEHICLES TRAVELLING SIDE BY SIDE *SUSCEPTIBLE TO HIGH SPEED WINDS
PIEZOELECTRIC	<ul style="list-style-type: none"> *PRECISE DETECTION ZONE *PORTABLE OR FIXED INSTALLATION 	<ul style="list-style-type: none"> *EMBEDDED IN PAVEMENT
SPREAD SPECTRUM	<ul style="list-style-type: none"> *VERY INEXPENSIVE *ABOVEGROUND INSTALLATION *ACCURATE RANGE DISCRIMINATION 	<ul style="list-style-type: none"> *SHORT RANGE OF DETECTION

SENSOR ADVANTAGES AND DISADVANTAGES

SENSOR	ADVANTAGES	DISADVANTAGES
INDUCTIVE LOOP DETECTOR	*MATURE TECHNOLOGY *WELL-DEFINED DETECTION ZONE	*EMBEDDED IN PAVEMENT *SENSITIVE TO INSTALLATION PROCESS
MAGNETOMETER	*SMALL AND USEFULL FOR BRIDGES WHERE LOOPS DON'T WORK *PORTABLE OR FIXED INSTALLATION	*EMBEDDED IN PAVEMENT