



- NOTES:
1. COIL UP 5'-0" OF EQUIPMENT CABLE AT EACH EQUIPMENT LOCATIONS, EQUIPMENT ENCLOSURES, AND HAND HOLES UNLESS CALLED OUT OTHERWISE.
 2. ALL WIRE SHALL BE INSTALLED BY THE CONTRACTOR AND TERMINATED AND TESTED BY THE INTEGRATOR.
 3. ANY WIRE THAT IS DAMAGED DURING OR AFTER BEING INSTALLED AND DOES NOT TEST CORRECTLY SHALL BE RE-INSTALLED BY THE CONTRACTOR AT NO COST TO THE COMMISSION.
 4. PAVEMENT SAWING FOR LOOPS AND PIEZO SENSORS IN THE ORT LANES SHALL BE PREFORMED BY THE 39-20-01 CONTRACTOR. THE WIRE SHALL BE INSTALLED AND THE LOOPS AND PIEZO SENSORS SHALL BE INSTALLED AND SEALED BY THE TCS INTEGRATOR.
 5. CABINETS J1, J2, AND K SHALL BE PROVIDED BY INTEGRATOR AND INSTALLED BY THE CONTRACTOR.
 6. THE CONTRACTOR SHALL COORDINATE WITH THE INTEGRATOR THE EQUIPMENT ORGANIZATION AND THE WIRE REQUIREMENTS IN THE J1, J2, AND K CABINETS. COIL 15'-0" OF EQUIPMENT WIRE IN THE J1, J2, AND K CABINETS.
 7. THE PIEZO CABLES IS INTEGRATED (CONNECTED AS ONE UNIT) WITH THE PEIZO STRIP. THE PIEZO CABLE WILL BE PURCHASED AND INSTALLED BY THE TCS INTEGRATOR.
 8. CAMERA CABLE SHALL BE PROVIDED BY INTEGRATOR AND INSTALLED BY THE CONTRACTOR.
 9. CAMERAS AND ILLUMINATOR CABLE BY MANUFACTURER ILLUMINATOR IS POWERED AND CONTROLLED BY CAMERA.
 10. UPS IN K CABINET SHALL BE APC SMART UPS1500 (SMT1500C) AND SHALL BE PROVIDED AND INSTALLED BY TCS CONTRACTOR.
 11. THE CONTRACTOR TO ROUTE (2) CATE6 SHIELDED OUTDOOR ETHERNET CABLE TO POLE MOUNTED AVI CABINET AT BUILDING. ALL OTHER CABLE TO COMMS ROOM.
 12. THE CONTRACTOR TO ROUTE (2) CATE6 SHIELDED OUTDOOR ETHERNET CABLE TO POLE MOUNTED AVI CABINET FOR SYNCHRONIZATION USING CROSS LANE CONDUIT AND PULLBOXES.
 13. DVAS CATE6 CABLE SHALL BE ROUTED TO BUILDING COMMS ROOM.
 14. THE CONTRACTOR SHALL PROVIDE A 4 SPACE 208/120V BREAKER PANEL INSIDE THE ZONE CONTROLLER CABINET. POWER SHALL BE 208V TO THE HVAC AND 120V TO THE UPS. CABINETS AND SYSTEM SHALL BE GROUNDED PER NEC BY THE CONTRACTOR.
 15. IN ADDITION TO THE UNDERGROUND CONDUIT THE CONTRACTOR SHALL PROVIDE (2) 4"Ø CONDUIT BETWEEN CABINETS AT THE BASE.

TOLL SITE CABLE SCHEDULE

TYPE	DESCRIPTION	PROVIDER	INSTALLER
1	DYNAMIC MESSAGING SIGN	*	*
2	LCS	*	*
3	REAR VES CAMERA WITH ILLUMINATOR	*	*
4	FRONT VES CAMERA WITH ILLUMINATOR	*	*
5	EXIST GATE	*	*
6	PIEZO STRIPA	*	*
7	AVI ANTENNA	*	*
8	LIDAR	*	*
9	PDMS	*	*
10	LANE ELECTRONIC CABINET	*	*
11	TOLL COLLECTOR INTERFACE	*	*
12	AVI CABINET	*	**
13	ATPM	*	*
14	DATIM	*	*
15	BARRIER GATE	*	*
* BY TCS INTEGRATOR			
** CONTRACTOR			

TOLL SITE CABLE SCHEDULE

TYPE	PROVIDER	INSTALLER	DESCRIPTION	MANUFACTURER	PART NUMBER
1	*	*	IMSA 51-7 #14 STRANDED LOOP DETECTOR WIRE	ADVANCED CABLE	35LC-1401-XHHW-PE
2	*	*	PIEZO INTEGRATED CABLE	IRD	PROPRIETARY
3	*	**	NOT USED	-	-
4	**	**	IMSA 50-2 #14 STRANDED LOOP LEAD WIRE	ADVANCED CABLE	2J-1402
5	**	**	CAT6 SHIELDED OUTDOOR ETHERNET CABLE	PRIMUS CABLE	C6CMXE-53658K
6	**	**	#18 AWG STRANDED 6 CONDUCTOR	OMNI CABLE	D91805
7	**	**	ANTENNA COAX CABLE LMR-600	TIMES MICROWAVE	LMR600-DB
8	**	**	#12 AWG STRANDED 3 CONDUCTOR (POWER AND GROUND) 120V	SEE DIV. 26000 SPEC	-
9	**	**	VES CAMERA COMPOSITE CABLE BY MANUFACTURER (NOTE 1) 24VDC	JAI	10016435
10	**	**	#12 AWG 3 CONDUCTOR (POWER AND GROUND) 120V (UPS)	SEE DIV. 26000 SPEC	-
11	**	**	#6 AWG 5 CONDUCTOR (POWER AND GROUND) 208V	SEE DIV. 26000 SPEC	-
12	**	**	#18 AWG STRANDED 8 CONDUCTOR (SIGNAL)	OMMI CABLE	D91808
13	**	**	8 AWG STRANDED 3C POWER & GRD 120V	SEE DIV. 26000 SPEC	-
14	**	**	12 FIBER OPTIC MULTIMODE	OCC	DX012DW159KR
15	**	**	#18 STRAND AWG 4 CONDUCTOR (POWER AND GROUND) 120V	OMNI CABLE	D91804
16	**	**	BELDEN 8723 (RS422 COMMS)	BELDEN	8723
17	**	**	#12 AWG 5 CONDUCTOR (POWER AND GROUND) 208V	SEE DIV. 26000 SPEC	-
* BY TCS INTEGRATOR					
** CONTRACTOR					

