



ANDREW J. GINTHER, MAYOR

FIELD SIGNAL CHECKOUT FORM 5

DEPARTMENT OF
PUBLIC SERVICE

VENDOR - CONTRACTOR	
PROJECT NAME	
PROJECT NUMBER	

<i>IMSA Certified Field Technician Level II Information</i>	
NAME	
IMSA NUMBER	
SIGNATURE	

Meets	Deficient	N/A	POLES/ARMS	COMMENTS
			All hardware present? Caps, hand hole covers, base covers, wind dampeners ect..	
			Free of major defects?	
			Pole has proper rake?	
			Anchor bolts have proper size and have nuts, washers, ect .	
			Anchor bolt projection (height of threads above nut) is correct?	
			Conduits are inside of base plate?	
			Conduits are capped off inside of strain pole?	
			Strain relief, cable grips are installed?	
			All hardware has been painted to match pole?	
			Poles have systems ground attached in pole bases.	
Meets	Deficient	N/A	VEHICULAR SIGNAL HEAD & BACKPLATES	COMMENTS
			Are signal heads installed as per plan?	
			Signal heads are a min. of 8' apart?	
			Signals are hanging plumb?	
			Signals have proper clearance over roadway? (17'- 19')	
			Each signal is oriented towards proper approach?	
			Spade terminals were used?	
			Signal wires spliced through and dead ended properly?	
			Was sealant applied to signal head for water intrusion?	
			Grommets installed at cable entrance?	
			Terminal blocks in correct lens? (Red free hanging, Green thru rigid mount)	
			Back plate has 2" reflective border continuously around back plate?	
			Drip loop was installed at signal entrance?	
			Back plates are aluminum?	
			Back plate extent 5" beyond signal on all sides?	
			Signals & visors match color specified in plans?	
			All signal hardware is stainless steel?	
			All signal hardware is tight?	
			Signal heads are wired according to color chart per standard?	
Meets	Deficient	N/A	TETHER WIRE & ACCESSORIES	COMMENTS
			Tether wire parallels signal span?	
			Safety tie installed at each turnbuckle?	
			1/8" steel wire wound around turnbuckle?	
			Is "S" hook closed at pole end?	
			Safety tie is proper size and slack but not to touch pole?	
			All thimbles and wire rope clamps installed correctly?	
			Tether is attached to bottom of signals along with spring?	
			Tether has proper vertical clearance over roadway? (17 feet)	
			Tether wire is 1/4" utility grade?	
			Bullring ties in place?	
			Spreader bars installed correctly on five section signals?	
			Backup ties installed around five section signals?	
			Does tether wire have proper amount of tension?	
Meets	Deficient	N/A	SPAN WIRE & SIGNAL CABLES	COMMENTS
			Correct size of span wire used?	
			Proper sag in span?	
			Bull ring in correct location?	
			Maximum of 6" drip loops?	
			Preforms and three bolts installed correctly?	
			No splices are visible in cables?	
			Wire is not chaffed around aerial hardware, signs or signals?	
			Proper sized lashing was used?	
			Correct mounting clamps were used on attachment point on poles?	
			All hardware properly installed? (thimbles, serving sleeves, clevis, ect.)	
Meets	Deficient	N/A	POWER SERVICE	COMMENTS
			Riser installed corectly? (schedule 80 PVC conduit, service wire only in riser)	
			Proper service wire used? gauge? type?	
			No splices in service wire between cabinet and power service?	
Meets	Deficient	N/A	VIDEO/ RADAR DETECTION	COMMENTS
			Camera/Sensor & mounting hardware match poles? (except radar)	
			Bracket arm is parallel with mast arm?	
			Camara/Sensor hardware is tight?	
			Grommets were installed in bracket arm?	
			Cables are in a like new condition?	
			Pin connector for radar cable has electronic grease applied?	
			Radar unit is grounded?	
Meets	Deficient	N/A	PEDESTRIAN SIGNALS & PUSHBUTTONS	COMMENTS
			Signals are mounted to pole at proper height? (8' to bottom of signal)	
			Ped heads are banded or bolted to poles? (bolted for mast arm intersections)	
			Signal head aimed at center of the crosswalk?	
			Grommets were used for pedestrian signals & pushbuttons?	
			Ped heads are wired according to color chart in plans?	
			Wiring is terminated in ped housing?	
			Sealant is applied to top of button?	
			Are pushbuttons mounted to poles @ 42" to center of button from sidewalk?	

Meets	Deficient	N/A		COMMENTS
			CONTROLLER CABINET	
			Empty conduits have pull strings installed?	
			Cabinet is sealed?	
			Work pad installed?	
			Wiring has spade terminals, except power?	
			Loop wires are soldered?	
			Conduits have steel wool and capped?	
			Cabinet is neat and free of debris?	
			Two ground rods were installed and below 10 ohms & less than 100 mA?	
			Wires are tagged and legible?	
			All unused wires are dead ended?	
			Pole mounted cabinet is at proper height?	
			Field connections are tight?	
			Controller has proper timing, monitor settings?	
			Proper flash and signal operation?	
			Complete set of paper work in cabinet?	
			Field wires hooked up correctly and flashed out to intersection?	
			Time of turn off and turn on of new signals recorded?	
			UPS	
			Does UPS have battery warmers on bottom side of shelves?	
			Ups takes over when AC current is removed?	
			Manual bypass switch functions properly?	
			Has a confirmation light been installed?	
			Sealant has been applied to cabinet for water intrusion?	
			Line voltage in/out has been verified?	
			VIDEO/RADAR DETECTION	
			Detection is aimed properly?	
			Cameras/Sensors call correct phases in controller?	
			video and radar zones have proper measurement from stop bars?	
			TRAFFIC SIGNAL INTERCONNECT	
			Cable was installed per plan?	
			Splice enclosures per plan?	
			Correct equipment in cabinet?	
			Identification tags on cables?	
			System working with TMC?	
			All forms turned in for testing of fibers?	
			Aerial installation per plan?	
			Underground installed per plan?	
			POWER SERVICE	
			Was service built per plan?	
			Bypass meter socket installed?	
			Correct enclosure was installed for service?	
			Proper sized conduits and connections installed for service?	
			Service grounded?	
			Wire size per plan?	
			Service protected from water intrusion?	
			OVERHEAD/GROUND MOUNTED SIGNS	
			Signs installed per plan?	
			Proper mounting hardware used?	
			Temporary signs installed?	
			PEDESTRIAN SIGNALS & PUSHBUTTONS	
			Do signals countdown to zero?	
			Buttons are operational and call correct phase in cabinet?	
			Buttons and signs are installed in proper locations according to plans?	
			Signs have correct lettering according to plans?	
			POLES/ARMS	
			Poles are properly grounded? (25 ohms or less)	
			LOOP DETECTION	
			Raceways were installed correctly.	
			Loops are installed neatly? (not a lot of excess sealant in saw cuts)	
			Four kits installed correctly, (no voids)	
			Loops have proper measurement from stop bar?	
			PULL BOXES AND CONDUIT	
			Are pull boxes installed to grade?	
			Is the pull box installed on proper bedding of gravel base?	
			Do pull box lids have proper lettering?	
			Frame of pull box grounded?	
			Mastic installed under frame on round boxes?	
			Casting clips installed to hold frame in place (open areas only)?	
			Are pull boxes correct size and type per plan?	
			If necessary, are drains installed?	
			Is the final grade and seeding complete around pull box?	
			Mortar/Grout been placed around conduits and pull box walls?	
			Conduits are proper size and material per plan?	
			Conduits do not enter pull box more than three inches?	
			Spare conduits have proper pull string installed?	
			Ends of conduits are properly capped?	
			Pull box is clean and free of debris?	
			Cables are tagged?	
			Bushings have been installed on the ends of rigid conduits.	
			Correct systems grounding wire installed in conduit?	
			TRENCHING	
			Was the trench installed at proper depth?	
			Is the trench restored to a like new condition, paved/open areas?	
			Trench installed in right location?	