CONTRACTOR'S PRE-INITIAL TRAFFIC SIGNAL INSPECTION CHECK LIST

CONTRACTOR'S PRE-INITIAL INSPECTION DATE:		**INITIAL INSPECTION DATE:**	
FINAL INSPECTION DATE:		**FINAL ACCEPTANCE DATE:**	
IMPROVEMENT DISTRICT/PROJECT:		**CONTRACTOR:**	
INTERSECTION:		**INSPECTOR:**	
SUBSTANTIAL COMPLETION DATE:		**FINAL COMPLETION DATE:**	
SERIAL NUMBERS:			
Controller-			
Opticom Card-			
Conflict monitor-			

Contractors	City		
Inspector Initials	Check Off		
		TRAFFIC SIGNAL CABINET:	**COMMENTS**
		1 Working slab-per specification	
		2 Cabinet: ☐ Leveled ☐ Caulked bottom, outside & all Seams ☐ 2 spare 2" conduits	
		3 Grounding: ground rod and connections	
		4 Line voltage: 120 volts--Check for Secure Connection	
		5 Documentation: ☐ Cabinet conflict monitor test record ☐ Vehicle loop test report	
		☐ 4-sets of properly labeled cabinet prints	
		6 Field wiring: ☐ Neat-properly terminated ☐ Machine labeled Correctly according to plans	
		7 Detector and pre-emption rack label strip: ☐ 1 1/8" width minimum	
		☐ Aligned with detectors ☐ Labeled correct	
		8 Fiber switch mounted correctly ☐ Ethernet Cables Installed Correctly ☐ Fiber jumpers installed and labeled correctly	
		9 ALL field wiring connections are tight, after checking every wire for tightness, retighten ALL connections again.	
		10 Vehicle loop detectors: ☐ Sensitivity Set to 7 ☐ Set to "S" mode ☐ Frequency set- **Left Rack**--top(1), bottom(2) **Right Rack**--top(3), bottom(4)	
		☐ Verify operation to the assigned detector then verify proper call on the controller screen.	
		11 Pedestrian push buttons: operate and verify proper call on the controller screen.	

		12	Test all door and test panel switches.	
		13	Spare equipment: ☐ 2-load switches ☐ 1-2 channel vehicle detector, as specified.	
		14	Cabinet keys: collect all supplied.	
		15	Emergency Vehicle Pre-Emption-City verify working detectors	
		16	Manual test 3M Phase Selector-brings up correct phase and confirmation light	
		17	Duct seal in used cabinet conduits and spare conduits are closed with 2"plugs	
		FEED POINT:		
		18	☐ 60 Amp breaker ☐ Label ☐ Surge protector ☐ Locked ☐ Foundation 12" above grade	
		19	☐ Electrical meter /by-pass type	
		20	☐ Working slab-per specification	
		SIGNAL STANDARDS:		**SIGNAL STANDARD DIRECTION**
		21	Traffic signal standard level.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		22a.	Vehicle heads Level and Aligned Parallel to oncoming Traffic.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		b.	4&5 Section Heads centered on Yellow Ball/Arrows and mast arm capped.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		c.	Vehicle Back plates securely fastened with washers.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		d.	Pole-side mounted vehicle heads aimed to nearest oncoming vehicle lane 200' from stop bar	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		e.	Pedestrian heads level and aimed at center of oncoming pedestrian approach	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		23a.	Opticom Detector tubes pointing in the right direction-WEEP HOLE PUNCHED OUT	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		b.	Confirmation Light aimed straight ahead and 1 notch down from level.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		24	Signal Std. Paint; touch-up bad spots-chips. Follow the spec. notes in the back of the plans.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		25	Signal foundation: ☐ 3" above finished grade ☐ Forms removed	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
			☐ 1 spare 2" conduit ☐ Grounded ☐ Rodent Protection ☐ Duct Seal	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		26	Signal Standard nuts & T-Base check for tightness as per ND DOT Std. Specification.	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		27	Cables extend 18" outside of T-base, Cables are spliced according to COF detail with Lever Nuts	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**

		28	Mast arm signs level and properly mounted	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
		29	APS push button ☐ 42" above sidewalk ☐ Correct Audiable Message	☐ **NB** ☐ **SB** ☐ **EB** ☐ **WB**
			☐ Post is level ☐ Sleeves 3-4" above concrete ☐ Secure bolt Min of 2" up from Concrete	
		PULL BOXES:		
		30	Cables in pull boxes: pulled through shall extend 18" above cover-spliced wiring	
			shall extend 6 feet above cover.	
		31	Flush in concrete areas-0 to 1" above finish grade in earth areas.	
		32	Loop splice kits: ☐ Inspect ☐ No tape in splice kit ☐ Secured to 1/2" PVC pipe in upper part of pull box	
		OTHER:		
		33	Vehicle loops: ☐ Contraction joints cut wide ☐ Loop sealant neatly poured ☐ 8" spacing of lead-ins	
		34	Excavated areas: properly back filled-seeded and sodded.	
		35	All salvage equipment returned to City of Fargo- Include "Salvaged Equipment Checklist(s)"	
		COMMUNICATION CABLE:		
		36	70' of Slack outside of Tyco Fiber Enclosure and 30' of slack in each pull box.	
		37	Pigtail is secured to fiber distribution panel with a tie wrap.	
		38	Fiber is communicating without fault.	
		39	Label Fiber Cables, Orange Duplex Cables, Trace Wire and Distribution panel	
		40	Termination of all Fiber is within City of Fargo Specifications	
		41	Fiber test reports submitted to City of Fargo	

		MISCELLANEOUS:	