

# FDOT Traffic Engineering & Operations Office Traffic Engineering Research Laboratory IMSA TRAFFIC SIGNAL INSPECTOR CERTIFICATION CHECKLIST October 2008

FPN:	D	ATE:/_	/	<u> </u>		
PROJECT ENGINE	ER:					
PROJECT INSPECT	OR:					
IMSA INSPECTOR:	·		IMS	SA ID#:		_
INTERSECTION LO	OCATION:					_
MAINTAINING AC	BENCY:					_
CONTRACTOR:						_
ENGINEER OF REC	JORD:					<del>_</del> .
TYPE OF INSPECT	ION:					<del>_</del>
NUMBER OF INSP	ECTIONS:					
ATTENDEES:						
	NAME:			AGENCY:	PHO	ONE NUMBER:
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- 3) Controller Cabinet (Min Spec and Standard Spec Section 676)
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#### **Abbreviations:**

Standard Spec: Standard Specifications for Road and Bridge Construction
Min Spec: Minimum Specification for Traffic Control Signals and Devices

Design Standard: Roadway and Traffic Design Standards

UCF: Uniform Flash Code
MOV: Metal Oxide Varistor
NEC: National Electric Code

1) INTERSECTION DESIGN:	YES NO
a) Were supplemental agreements or change orders required for signal work?	
b) Did special provisions contain any technical special provisions?	
c) Was equipment installed consistent with that shown on form 750-010-02?	
d) What type of support system is used?	
Additional Comments:	
2) TRAFFIC SIGNAL CONTROLLER: (Min Spec and Standard Spec Section 671)	YES NO
Manufacturer: Model/Serial #: FDOT Certification Number:	
Manufacturer: Model/Serial #: FDOT Certification Number: _ a) Has the controller been installed at plan location?	
b) Is the certification sticker attached to controller in accordance with Min Spec and Standard Spec Section 671?	<del></del>
c) Are timings per plans?	<del></del>
d) Does controller receive vehicle/pedestrian calls?	
e) Signal phasing per plans?	
Additional Comments:  3) TRAFFIC SIGNAL CONTROLLER CABINET: (Min Spec and Standard Spec Section 676)	YES NO
Manufacturer: Model/Serial #: FDOT Certification Number: _	
a) Is the orientation of the movements consistent with plans?	-
b) Is the orientation of the movements consistent with the policy of the maintaining agency?	
c) Does the UCF flash function per specifications?	<del></del>
d) Do the following service switches operate per specifications?	
(1) Signals on-off	
(2) Auto-Flash	
(3) Aux power on-off	
(4) Vehicle detectors	
e) Is the police panel per the following specifications?	<del></del>
(1) Auto-Flash	
(2) Manual on-off	
(3) Manual Jack	
f) Is the following documentation provided?	
(1) Phasing diagram (posted on inside of door)	

(3) FDOT Certification sticker (4) Controller and monitor manual (5) Cabinet prints (6) Terminal connection tag (7) Copy of submittal data sheet g) Is the peripheral equipment installed consistent with plans and submittals? h) Are all connections secured? i) Are MOV and load resisters installed on field signal and loop terminal strip correctly? j) Is the transient suppressor for service line installed correctly? k) What type of cabinet is installed? (Circle one): Type (1), (2), (3), (4) or (5) (Circle one): (NEMA TS1) (NEMA TS2 Type 1) (NEMA TS2 Type 2) (Type 170/2070) l) Is the cabinet base free from honey combing? m) Is the cabinet pad the correct height? n) Has the tech pad been installed? O) Has the cabinet to base connection been secured and sealed properly? p) Are all cables identified in cabinet? q) Does the conduit in the cabinet extend at least 2" above pad? r) Is the correct number of spare conduits supplied? s) Are spare conduits terminated and capped in a pull box? t) Have the cables runs and wiring been secured? u) Does the wiring present a neat and orderly appearance? v) Are all conduits sealed? w) Is the control for the illuminated street name sign installed? x) Is there a separate terminal block for loop splicing? y) Is the cabinet grounded in accordance with Min Spec and Standard Spec Section 620? z) Is the interface panel the correct type and installed properly? a) Does aboinet contain all equipment called for (load switches, flashers, transfer relays, detector harnesses, etc.) per contract? b) Are the directions of conduit stub outs marked in the cabinet base? cc) Are the lugs on the field signal wires?			
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bb) Are the directions of conduit stub outs marked in the cabinet base?  cc) Are the lugs on the field signal wires?			
cc) Are the lugs on the field signal wires?	, , 1		
Additional Comments:	ce the me rugs on the field signal wires:		
	Additional Comments:	_	

Manufacturer:	Model/Serial #:	FDOT Certification Number: _		
Additional Comments:				
3.2) Flasher:	26.11/2.11/4			
Manufacturer:	Model/Serial #:	FDOT Certification Number: _		
Additional Comments:				
3.3) Conflict Monitor/ Ma	alfunction Management Unit:		YES	NO
Manufacturer:	Model/Serial #:	FDOT Certification Number:		
a) Is the FDOT certification				
b) Does the program card m	natch cabinet prints?			
<ul><li>c) Are all cables secured?</li><li>d) Does monitor sense conf</li></ul>	Fliat?			
e) Is time and date correct?				
c) is time and date correct!				
Additional Comments:				
	D CEDVICE ACCEMBLY. (Min Co.)		VEC	NO
4) ELECTRICAL POWE	ER SERVICE ASSEMBLY: (Min Spe	c and Standard Spec Section 639)	YES	NO
4) ELECTRICAL POWE a) Has the service been to the	CR SERVICE ASSEMBLY: (Min Spe he requirements of the NEC and local c	c and Standard Spec Section 639) odes?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the b) Does the power feed have	CR SERVICE ASSEMBLY: (Min Specific the requirements of the NEC and local case the proper clearance above any road of the NEC and some control of the proper clearance above any road of the proper clearance above above any road of the proper clearance ab	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load	R SERVICE ASSEMBLY: (Min Spe he requirements of the NEC and local c we the proper clearance above any road of center a greater value than the main in	c and Standard Spec Section 639) odes? or drive way?	YES —	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load d) Are the service elements	CR SERVICE ASSEMBLY: (Min Specific the requirements of the NEC and local case the proper clearance above any road of center a greater value than the main in a secured properly?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor contains the surge su	CR SERVICE ASSEMBLY: (Min Specific the requirements of the NEC and local case the proper clearance above any road of center a greater value than the main in a secured properly? onnected correctly?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the loaded d) Are the service elements e) Is the surge suppressor configuration of	CR SERVICE ASSEMBLY: (Min Specific the requirements of the NEC and local case the proper clearance above any road of center a greater value than the main in a secured properly? onnected correctly?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor conf) What is the voltage at the g) Have ground rod connections.	the requirements of the NEC and local case the proper clearance above any road of center a greater value than the main in a secured properly? onnected correctly? The line side of the meter?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor conf) What is the voltage at the g) Have ground rod connections.	che requirements of the NEC and local che the proper clearance above any road of center a greater value than the main in secured properly? onnected correctly? The line side of the meter? Stions been exothermically attached? The can 5.5' above surrounding grade?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the body Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor conf) What is the voltage at the g) Have ground rod connects h) Is the center of the meter i) Is service meter can and by What size wire was used	che requirements of the NEC and local che the proper clearance above any road of center a greater value than the main in a secured properly? onnected correctly? It is like the meter? It is been exothermically attached? It can 5.5' above surrounding grade? It is located? It can content of the meter?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor constitution of the surge of the surge at the general Have ground rod connects he have ground rod connects he content of the meter in the service meter can and left by What size wire was used kent of the service free of scratter than the service meter can and left by What size wire was used kent of the service free of scratter than the service meter can and left by What size wire was used kent of the service free of scratter than the service free free free free free free free fr	che requirements of the NEC and local che the proper clearance above any road of center a greater value than the main in a secured properly?  onnected correctly?  e line side of the meter?  etions been exothermically attached?  or can 5.5' above surrounding grade?  load center locked?  for service?AWG  tches or damage?	c and Standard Spec Section 639) odes? or drive way?	YES	NO
4) ELECTRICAL POWE a) Has the service been to the Does the power feed have c) Is the breaker in the load d) Are the service elements e) Is the surge suppressor conf) What is the voltage at the general Have ground rod connects h) Is the center of the meter i) Is service meter can and l j) What size wire was used k) Are surfaces free of scrattl	che requirements of the NEC and local che the proper clearance above any road of center a greater value than the main in a secured properly?  onnected correctly?  e line side of the meter?  etions been exothermically attached?  or can 5.5' above surrounding grade?  load center locked?  for service?AWG  tches or damage?	c and Standard Spec Section 639) odes? or drive way?	YES	NO

n) Is the conduit supported ev	elv 3 !			
/ 11	ith ground and plastic bushings?			
,	FDOT specifications and Design Standard	dard 17736?		
q) Is the disconnect is 8' from		daid 17750.		
	er than telephone and cable TV, and 1'1	hallow nautral?		
i) is the weather head is highe	i than telephone and cable 1 v, and 1	bellow neutral!		
Additional Comments:				
5) SIGNAL INSTALLATIO	ON GROUNDING: (Min Spec and St	andard Spec Section 620)	YES	NO
	rd Index 17736 and FDOT specificatio			
	ed to attach bonding wire to grounding			
	the bonding network connecting all po			
	d ground connection to the pull box cov			
e) Has the span wires been tie		ver where required:		
f) Have all pedestrian features	1 0			
g) Has the drain wire for loop				
2) has the drain whe for loop	returns been tied to ground?			
C/ 1	$\mathbf{c}$	tion provided (see appendix D)		
C/ 1	ocation of all ground nodes in intersec	tion provided (see appendix B)		
h) Was a sketch showing the l	ocation of all ground nodes in intersec			
h) Was a sketch showing the l	$\mathbf{c}$			
h) Was a sketch showing the l Additional Comments:	ocation of all ground nodes in intersec		YES	NO
h) Was a sketch showing the l Additional Comments:  6) PULL and JUNCTION B	OXES: (Min Spec and Standard Spe	ec Section 635):		
Additional Comments:  Display Bull and JUNCTION Boomleacturer:	OXES: (Min Spec and Standard Spec Model/Serial #:			
Additional Comments:  O PULL and JUNCTION B  Manufacturer:  A) Are lids stamped "Traffic S	OXES: (Min Spec and Standard Special #:	ec Section 635):		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S  b) If required, has the ground	OXES: (Min Spec and Standard Special #:	ec Section 635):		
Additional Comments:  Additional Comments:  Additional Comments:  A PULL and JUNCTION B Manufacturer:  A Are lids stamped "Traffic S S S O If required, has the ground C Are covers secured to the b	OXES: (Min Spec and Standard Spec Model/Serial #:  Gignal" and "20K"?  rod been installed?  oxes?	ec Section 635):		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers	OXES: (Min Spec and Standard Special #:	ec Section 635):		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of	OXES: (Min Spec and Standard Spec Model/Serial #:  Gignal" and "20K"?  rod been installed?  oxes?	ec Section 635):		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of f) Are all conduits sealed?	OXES: (Min Spec and Standard Spec Model/Serial #:  Signal" and "20K"? rod been installed? oxes? grounded? pea gravel been installed under box?	ec Section 635):		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of f) Are all conduits sealed? g) Have boxes been located w	OXES: (Min Spec and Standard Special #: Model/Serial #: signal" and "20K"? rod been installed? oxes? grounded? Spea gravel been installed under box? where required?	ec Section 635):		
h) Was a sketch showing the land Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of f) Are all conduits sealed?  g) Have boxes been located wh) Have the cables in the boxes	OXES: (Min Spec and Standard Spec Model/Serial #:	ec Section 635):		
h) Was a sketch showing the land Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of f) Are all conduits sealed?  g) Have boxes been located w h) Have the cables in the boxe ii) Are the boxes flush with sur	OXES: (Min Spec and Standard Spec Model/Serial #:	ec Section 635): FDOT Certification Number:		
h) Was a sketch showing the land Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic Stamped" Traffic Stamped to the book of the covers secured to the book of the secured are covers and the secured are covers and the secured are covers are cover	OXES: (Min Spec and Standard Special #:	ec Section 635): FDOT Certification Number: Design Standard 17721?		
Additional Comments:  6) PULL and JUNCTION B Manufacturer:  a) Are lids stamped "Traffic S b) If required, has the ground c) Are covers secured to the b d) Where required are covers e) Has the required amount of f) Are all conduits sealed? g) Have boxes been located w h) Have the cables in the boxe i) Are pull boxes installed per k) Have the pull boxes been in	OXES: (Min Spec and Standard Spec Model/Serial #:	Pec Section 635):  FDOT Certification Number:  Design Standard 17721?  isions?		

7) CONDUIT: (Section 630) a) Does the conduit comply with the MSTCSD"? b) Was conduit installed per plan location? c) Does any conduit run have more than 360 degrees of bends? d) Was an approved metal conduit used for above ground locations? e) Was the underground service feed an approved metal conduit? f) Was schedule 80 PVC or fiberglass conduit used on bridge decks? g) Was a pull wire installed in all spare conduits? h) Was expansion fittings installed on bridge conduit were required? i) Was conduit installation in compliance with the NEC? j) Was onduit installation in compliance with plans and specifications? k) Are ends of metal conduit protected by a bushing? l) Are all conduits sealed correctly? m) Was restoration of the trench in compliance with specifications? n) Was all above ground conduit strapped per NEC requirements? o) Is the radius of curvature of the inner edge of any bend in compliance with Standard Spec 630-3.10? p) Do as-builds reflect any deviations from plan location for the conduit runs? q) Was the depth of the conduit in compliance with plans and specifications? r) Were directional bores done with approved equipment? s) Where underground nonmetal conduit transitions to above ground metallic conduit is there at least 6" of metal conduit underground?  Additional Comments:  8) SIGNAL and INTERCONNECT CABLE: (Min Spec and Standard Spec Section 632)	Additional Comments:		
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e) Were sufficient conductors supplied for present and future heads?  f) Was the correct strain relief device used?	,		
f) Was the correct strain relief device used?	, 1		
,	,		

h) Have all cables been labeled in pole bases, pull boxes and cabinet?		
i) Has the insulation on any cable or conductor been chaffed?		
If so, list location.		
j) Has sufficient cable been coiled in the cabinet?		
k) Are required spares been provided for in all signal and pedestrian cables?		
1) Is there one neutral per approach?		
m) Has Appendix B been completed in the back of this checklist?		
Additional Comments:		
9) SIGNAL POLES		
9.1) Mast Arm:	YES	NO
a) Is the uprights plumb?		
b) Is the jam nut installed?		
c) Are the nut covers installed?		
d) Is the correct amount of thread exposed above the nut?		
e) Does the end of the arm fall below the center of the arm at the attachment point?		
f) Has the correct strain relief for the signal cable been installed?		
g) Does the upright have a terminal compartment?		
h) Do the bolts holding the arm to the upright have the correct reveal?		
i) Have the Astro-brackets been installed properly?		
j) Is the cable jacket intact inside the bracket?		
k) Has the grommet been installed in the drilled cable entrance hole?		
1) Is the head aligned correctly?		
m) Have all the pole covers been installed?		
n) Are there any dents or scratches that have not been repaired?		
o) Has the mast arm been installed in the correct location and have the proper alignment?		
p) What is the distance from head to stop bar? Min Max		
q) Is the grout cap installed including drainage?		
r) Arm securely fastened to pole?		
s) All holes not used are plugged?		
t) Has all mast-arm hardware been installed?		
u) Is mast-arm assembly upright and square to the road?		
v) Are poles installed per plans and FDOT specifications?		

a) Are poles installed per plans and FDOT specifications? b) Were the poles the type and length as specified in the plans? c) Was the camber of the pole measured as the maximum deviation between the centerline of the pole and a straight line connecting the centroids of the cross-sections at each end of the pole greater than the total pole length in millimeters divided by 140? d) Was the footing constructed per plans and specifications? e) Was the excavation for the pole backfilled properly? f) If foundation extended above ground level was the concrete troweled to a smooth finish? g) Is the orientation of the span wires to the poles perpendicular for single span and perpendicular to a line bisecting the angle between the spans on a two span attachment? h) Was the pole raked correctly? i) Were all unused holes plugged? j) Was the correct number of conduits stubbed out from the base of the poles? k) Was the pole bonding wire brought out of the foundation?  Additional Comments:  9.3) Steel Strain Pole: a) Was the pole secured to the foundation properly? b) Is the pole free from scratches and defects? c) Is the pole free from scratches and defects? c) Is the pole and secured? d) Was the proper strain relief provided? e) Was all hardware secured correctly? f) Was the pole bonded correctly? f) Was the pole bonded correctly? Additional Comments:  9.4) Signal Pole Foundation: a) Was the foundation installed in compliance with the drill shaft plan? b) Was all slurry removed? c) Was the depth and size of the foundation in accordance with plans?	9.2) Prestressed Concrete Poles: (Standard Spec Section 641)	YES	NO
c) Was the camber of the pole measured as the maximum deviation between the centerline of the pole and a straight line connecting the centroids of the cross-sections at each end of the pole greater than the total pole length in millimeters divided by 140?  d) Was the footing constructed per plans and specifications?  e) Was the excavation for the pole backfilled properly?  f) If foundation extended above ground level was the concrete troweled to a smooth finish?  g) Is the orientation of the span wires to the poles perpendicular for single span and perpendicular to a line bisecting the angle between the spans on a two span attachment?  h) Was the pole raked correctly?  i) Were all unused holes plugged?  j) Was the correct number of conduits stubbed out from the base of the poles?  k) Was the pole bonding wire brought out of the foundation?  Additional Comments:  9.3) Steel Strain Pole:  a) Was the pole secured to the foundation properly?  b) Is the pole free from scratches and defects?  c) Is the pole cap in place and secured?  d) Was the proper strain relief provided?  e) Was all hardware secured correctly?  f) Was the pole bonded correctly?  f) Was the pole bonded correctly?  Additional Comments:  9.4) Signal Pole Foundation:  a) Was the foundation installed in compliance with the drill shaft plan?  b) Was all slurry removed?	) Are poles installed per plans and FDOT specifications?		
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b) Was all slurry removed?	/ 0		
	) Was the foundation installed in compliance with the drill shaft plan?		

e) Was the f) Was the g) Was the h) Were the i) Did the a j) Was the k) Did the l) Was the m) Is the fin o) Does it l p) Even wi	placement of the streen concrete to steel cle proper number of concrete anchor bolt pattern e anchor bolts extend foundation the proper concrete used conforbatch time and revolundation grounded hish of the foundation hold water? th sidewalk? chart below:	earance correct? onduits stubbed o correct? ght size and lengt the proper height er width and dept orm to the design to plutions for the mi per FDOT specif	ut?  h? above the foul h? mix? x checked? ications?					
POLES	MFG	MATERIAL	TYPE	LENGTH	QUADRANT	**		
1								
2								
3								
4								
5								
a) Are sign b) Have tw c) Do 5 sec d) Is signal	Comments:	ENT ilastic sealant inst lled in base of sig operly (swing outy n upright position	alled per Mir gnal head? ward)?	1 Spec A659)?			YES	NO 
,	signal heads installe	_	ect number a	nd location of s	ionals ner nlans)			
/	nals installed per pla					m stop		
,	the distance from he	ead to stop bar? M	1in	Max				

i) Is at least	t one head for	r each annro	ach l	netw.	een 4	l0' ar	nd 150	)'?				
	dware tight a		, acii	3000		o ui	14 150	, .				 
• /	e span wires b		ed m	roner	·1v?							 
/	ignal cable b		-	-	-							 
	loops the co					nerly	.?					 
	at least 8' hor							ino 1	the s	ame	direction?	 
,	ay signal hea							ing (	110 50	41110	direction:	 
/	cle traffic sig							2000	hre)	)		 
1 /	amp certificat			CCI	ııııcu	(130	, ,,,	0000	1113).			 
	nal head doo			nerly	y (do	wa	ard or	out	to co	rreci	eide)?	
	shers installed	- 1	-								i side):	 
	istalled prope									15!		 
	d serrated ad									), (	lata ahaata?	 
,	•	,	-	_		-						 
		rop nangers	nave	me	COITE	ect ov	епар	anu	num	bei (	of bolts (per manufacturer's	
instruction	,	lata (Maat A										 
Record Sig	nal head heig	`	1		_	. 1		-				
	POLE #	ARM#	1	2	3	4	5	6	7	8		
Additional	Comments:											
Additional	Comments											

Record Signal head heights (Span Wire)

5 <u>1141 11644 11618</u>	,	- P ***		<u> </u>								
POLE#	1	2	3	4	5	6	7	8	9	10	11	12

Additional Comments:				
	` •	c and Standard Spec Section 650)	YES	NO
		FDOT Certification Number:		
	nbers labels near the terminal block	S!		
b) Are the number and location	· 1			
c) Are the signals installed per t from stop bar)?	he plans and FDOT specifications (	i.e. vertical/horizontal and distance		
d) Are signals within the require	ed minimum and maximum heights	per Standard Spec Section 650?		
e) Are lenses, lamps, and visors	installed in proper direction?	-		
· • • • • • • • • • • • • • • • • • • •	al head doors open downwards?			
,	de of stainless steel type 304/316?			
C/	ely fastened with cable tied downs?	1		
,	rs terminated with calibrated ratchet			
, 1		t type crimp toor?		
J/ 1	ndividually and properly capped?			
k) Is the signal head surface free	e of scratches and dents?			
1) Disconnect Hanger:				
1) Are cable entrance l	oushings installed in accordance with	th Min Spec Section A659?		
2) Are unused cable er	ntrances plugged?	•		
3) Are adaptor hubs tig	1 00			
, 1	ock washers installed on tri-stud bol	ltc?		
,				
of Are the correct num	ber of disconnects installed per plan	ns /		

6) Have all unused conductors in the Jones plug been secured? m) Are cotter pins installed in span wire clamps?	
n) Are lock washers installed and nuts tight in span wire clamps?	
12) PEDESTRIAN SIGNAL ASSEMBLY: (Min Spec and Standard Spec Section 653)  Manufacturer: Model/Serial #: FDOT Certification Number:	YES NO
Manufacturer: Model/Serial #: FDOT Certification Number: a) Are the signals not less than 8' from ground and no more than 10'? b) Are the pedestrian signals housing weather proof and doors open downward? c) Are the pedestrian detectors within 1 ½' and 4' from ground as per Standard Spec Section 665-3 and	= =
Design Index 17784? d) Is the pedestrian detector and sign pointing in the same direction as the corresponding crosswalk? e) Are ped signal surfaces free from scratches and dents?	
f) Are FDOT certification stickers provided in accordance with Standard Spec Section 603? g) Are the correct wattage lamps installed?	
h) Are signals weather-tight? i) Are pedestrian signals installed per Standard Spec Section 665-3 and Design Index 17784?? j) Are pedestrian detectors weather tight (silastic sealant installed around mounting bolts/conduit)?	
k) Is the pedestal installed per standard index?  1) Is the correct number of signals, pedestals, signs, etc, installed per plans?  2) An anadostrian detectoral la estiona handison accessible and de they must ADA requirements?	
m) Are pedestrian detectors' locations handicap accessible and do they meet ADA requirements?  12.1) Pedestrian Features:	YES NO
On tight corners are the pedestrian heads located such that the chance of a turning truck striking the head is minimized?	
Do the indications match plans?  Are the pedestrian detectors in compliance with ADA?  Do any ending the still modestrian features frontian assembly?	
Do any audio /tactile pedestrian features function correctly?  Do the heads line up with crosswalks?  Are there three spares in each pedestrian signal cable?	
Is the pedestrian clearance time sufficient to clear pedestrians?	
Additional Comments:	
13) VEHICLE DETECTION:	YES NO

Type of detection:	
Type of detection: Model/Serial #: FDOT  a) Has the contractor provided the correct documentation?	Certification Number:
a) Has the contractor provided the correct documentation?	
b) Do all detector units detect?	<del>_</del> <del>_</del>
c) Are all loops (or alternate detection device cabling) labeled and attached to the co	orrect terminals?
d) Are loops (or alternate detection device cabling) labeled in pull boxes and in cabi movement number?	net as to location and
13.1) Inductive Loops:	<del>_</del> _
a) Was the slot for the loops and home runs cut to the proper depth per Standard Spe	ec Section 660 and
Design Index 17781?	
b) Are there more than 4 home run cables in a saw cut?	<del></del>
c) Was the window installed correctly?	<del></del>
d) Was the loop window cut the proper size and sealed properly?	
e) Was the correct wire installed (size and insulation)?	
f) Are the loops to home run connection watertight?	
g) Is there conduit installed from window to pull box?	
h) Loop Sealant: (FDOT Certification number:) Was the	correct sealant used?
Was the sealant applied per manufacturers requirements?	
Was the excess sealant removed?	
i) Were the drain wires attached?	
j) Is there an individual run for each loop back to the cabinet?	
k) If more than one loop is connected to a detector are they connected in series?	
1) Was this connection of multiple loops done on a separate terminal block in the cal	oinet?
m) Are adjacent loops wound in opposite directions?	
n) Was the home run cable the correct size and type?	
o) Were all loop parameters within tolerance?	
p) Has the contractor provided loop data sheet?	
q) Was an inspector present during loop cutting and while ground rod were driven?	
r) Are there any loop leads exposed?	
s) Is the splicing of the loops in accordance with Design Index 17781?	
t) Are the loop lead-in bare wires terminated per contract plans?	
u) Do all loops meet meg-ohms specification requirement?	
v) Is the loop saw cut depth per Standard Spec Section 660 and Design Index 17781	?

13.1.1) Inductive Loop Detector Amplifiers:	YES NO
a) Have the loops been installed according to plans (i.e.; type of loop; location of loop)?	
b) Has the loop sealant been installed neatly and evenly?	
c) Has the loop wire been installed as per Standard Spec 660 (i.e.; twisted, shielded, number of turns)?	
d) Has the contractor recorded the inductance meg reading on a FDOT Traffic Signal Resistance	
Measurement Data Sheet? (if yes, attach copy)	
e) Have the loops/lead-ins been spliced in accordance with Design Index 17781?	
f) Have lead-in shields been grounded?	

# 13.1.2) Inductive Loop Test

# **Record Loop Readings**

PHASE	LOOP#	L	R	Q	FREQ	DELTA L	TYPE
	PHASE	PHASE LOOP#	PHASE         LOOP#         L	PHASE LOOP# L R	PHASE         LOOP#         L         R         Q <td< td=""><td>PHASE         LOOP#         L         R         Q         FREQ           Image: Control of the control of t</td><td>PHASE         LOOP#         L         R         Q         FREQ         DELTA L           Image: Control of the co</td></td<>	PHASE         LOOP#         L         R         Q         FREQ           Image: Control of the control of t	PHASE         LOOP#         L         R         Q         FREQ         DELTA L           Image: Control of the co

Additional Comments:	
14) SIGNING:	YES NO
a) Were the street name signs installed per plans?	
b) Was the logo and block number correct?	
c) Was a HOA switch installed?	
d) Do the photocells function correctly?	
e) Was a drip loop provided at the cable entry point?	
f) Was the correct cable type used to wire sign?	
g) Do all lamps function in illuminated signs?	
h) Have manufacturer and date stickers been applied to back of signs?	
i) Have wind beams been installed where applicable?	
j) Are sign surface free of scratches of damage?	
k) Is all hardware stainless steel type 304/316?	
l) If used, list internally illuminated street name sign FDOT Certification number:	
Additional Comments:	
15) PAVEMENT MARKING:	YES NO
a) Have markings been installed per plans?	
b) Do new crosswalks line up with ped signals and handicap ramps?	
c) Are stop bars no closer than 40' and no further away than 150' from traffic signals?	<del></del> <del></del>
d) Are stop bars laid out properly in relation to vehicle loops?	<del></del> <del></del>
e) Have conflicting markings been removed?	<del></del>
f) Are raised pavement markings installed properly and per plan?	
g) Is general appearance and clean-up is acceptable?	
Additional Comments:	
16) SIDEWALK, CURB & GUTTER:	YES NO
a) Are ramps in an accessible location?	
b) Is concrete stamped properly (in ramps)?	<del></del> <del></del>
c) Is any new concrete cracking?	<del></del> <del></del>
d) Has concrete over spray been removed from painted structures, (where applicable)?	<del></del> <del></del>

f) Does new concrete installed match existing concrete (color, finish, etc.)?  Additional Comments:  17) REMOVAL ITEMS:  a) Have all existing foundations been removed entirely or lowered 2' below grade?  b) Have all existing pavement markings and signs in conflicts with new installation been removed?  c) Have all removals involving excavation been restored appropriately?  d) Have all abandoned pull boxes been removed and restored appropriately?  e) Has all clean-up, backfill, dressing, and sod work needed to make a quality job been completed?  Additional Comments:	
17) REMOVAL ITEMS:  a) Have all existing foundations been removed entirely or lowered 2' below grade?  b) Have all existing pavement markings and signs in conflicts with new installation been removed?  c) Have all removals involving excavation been restored appropriately?  d) Have all abandoned pull boxes been removed and restored appropriately?  e) Has all clean-up, backfill, dressing, and sod work needed to make a quality job been completed?	
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e) Has all clean-up, backfill, dressing, and sod work needed to make a quality job been completed?	
e) Has all clean-up, backfill, dressing, and sod work needed to make a quality job been completed?	
Additional Comments:	
18) CERTIFICATION OF TRAFFIC CONTROL SIGNAL DEVICES: (Min Spec and Standard Spec	
Section 603) YES N	NO
a) Are all traffic control signal devices marked in accordance with SSRBC Section 603 (manufacturer name and/or trademark and part number)?	
b) Has all traffic control signal devices requiring certification been marked with the FDOT Certification  Number in accordance with SSRBC Section 603?	
Additional Comments:	
19) SIGNAL TURN ON:  YES N	NO
a) Measure and record line voltage.	.10
b) Measure and compare voltage at furthermost indication.	
c) Is the voltage between the two readings greater than 5% of line voltage?	
d) Does the test button work on the GFI?	
e) Verify the field wiring for each movement to insure continuity to the appropriate signal head and record any discrepancies.	
f) Does police flash operate correctly?	
g) Does UCF flash operate correctly?	
h) Have all connection been checked to insure they are secured?	

i) Do light, t	fan, and thermostat fun	action correctly?			 
	f the detectors showing				 
k) Record ti	me and date of turn on	for flash and sto	op and go. Flash	Full	 
1) Did the co		d personnel at tu	rn on who could program	the controller and trouble shoot	 
/	eads aimed correctly?				 
, .	call the correct moven				 
, .	edestrian detectors call				 
p) Measure	and record the signal h	ead to stop bar o	listance for each approach	<u>h</u> .	
	APPROACH	MIN	MAX		
a) Did the in	atallation fraction ma	n ouls, of torms on	)		
	nstallation function pro				 
,	al ready to turn on at the		€!		 
s) Are all ca	bles labeled and neatly	arranged?			 
Additional (	Comments:				 

## APPENDIX A

		THI I DI (DI			
ITEMS	MFG	MODEL#	SERIAL#	TYPE	PHASE
CONTROLLER					
CABINET					
SIGNAL HEADS					
SIGNAL MONITOR					
FLASHER					
COORDINATION UNIT					
PRE-EMPT UNIT					
SIGNAL HEADS					
SIGNAL HEADS (PEDS)					
DISCONNECT HANGER					
DETECTIONS					

VENCTHERMOSTAT		TAT	FAN		HANDSWITCH			LINE FILTER		
SIGNAL HEADS	1	2	3	4	5	6	7	8	g	]
CLEARANCE HT.	1		3	7	3	U	,	0	,	
NOTES										

## APPENDIX B

## CABLE RUN IDENTIFICATION

Darken Lines Appropriate For Intersection

Draw in Cabinet Location (Symbol:

Draw in Signal and Ped Heads, with Head Numbers Record all Cable ID (Color or Number) Record

Conductor Size Record Number of Conductors in each Cable

Example: Green or 1-14/12

