FDOT Traffic Engineering & Operations Office
Traffic Engineering Research Laboratory

IMSA TRAFFIC SIGNAL INSPECTOR CERTIFICATION CHECKLIST

October 2008

FPN: _____ DATE:___/___/_____
PROJECT ENGINEER: _____
PROJECT INSPECTOR: _____
IMSA INSPECTOR: _____ IMSA ID#: _____
INTERSECTION LOCATION: _____
MAINTAINING AGENCY: _____
CONTRACTOR: _____
ENGINEER OF RECORD: _____
TYPE OF INSPECTION: _____
NUMBER OF INSPECTIONS: _____

ATTENDEES:

NAME:	AGENCY:	PHONE NUMBER:

Contents

1) Intersection Design
2) Traffic Controller (Min Spec and Standard Spec Section 671)
3) Controller Cabinet (Min Spec and Standard Spec Section 676)
    3.1) Load Switches
    3.2) Flasher
    3.3) Conflict Monitor/ Malfunction Management Unit
4) Electrical Power Service Assembly (Min Spec and Standard Spec Section 639)
5) Signal Installation Grounding (Min Spec and Standard Spec Section 620)
6) Pull and Junction Boxes (Min Spec and Standard Spec Section 635)
7) Conduits (Min Spec and Standard Spec Section 630)
8) Signal and Interconnect Cable (Min Spec and Standard Spec Section 632)
9) Signal Poles
    9.1) Mast Arm
    9.2) Prestressed Concrete Poles (Standard Spec Section 641)
    9.3) Steel Strain
    9.4) Signal Pole Foundation
10) Overhead Equipment
11) Vehicular Traffic Signal Assembly (Min Spec and Standard Spec Section 650)
12) Pedestrian Signal Assembly (Min Spec and Standard Spec Section 653)
    12.1) Pedestrian Features
13) Vehicle Detection (Min Spec and Standard Spec Section 660)
    13.1) Inductive Loops
        a) Inductive Loop Detector Amplifiers
        b) Inductive Loop Test
14) Signing
15) Pavement Marking
16) Sidewalk, Curb & Gutter
17) Removal Items
18) Signal Turn On

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: _____

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? ___ ___
c) Are timings per plans? ___ ___
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? ___ ___
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?
    (1) Auto-Flash ___ ___
    (2) Manual on-off ___ ___
    (3) Manual Jack ___ ___
f) Is the following documentation provided?
    (1) Phasing diagram (posted on inside of door) ___ ___

(2) Loop chart ___ ___
(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? ___ ___
aa) Does cabinet contain all equipment called for (load switches, flashers, transfer relays, detector harnesses, etc.) per contract? ___ ___
bb) Are the directions of conduit stub outs marked in the cabinet base? ___ ___
cc) Are the lugs on the field signal wires? ___ ___

Additional Comments: _____

3.1) Load Switches:
Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____

Additional Comments: _____

3.2) Flasher:
Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____

Additional Comments: _____

3.3) Conflict Monitor/ Malfunction Management Unit:	YES	NO
Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____		
a) Is the FDOT certification sticker attached?	___	___
b) Does the program card match cabinet prints?	___	___
c) Are all cables secured?	___	___
d) Does monitor sense conflict?	___	___
e) Is time and date correct?	___	___

Additional Comments: _____

4) ELECTRICAL POWER SERVICE ASSEMBLY: (Min Spec and Standard Spec Section 639)	YES	NO
a) Has the service been to the requirements of the NEC and local codes?	___	___
b) Does the power feed have the proper clearance above any road or drive way?	___	___
c) Is the breaker in the load center a greater value than the main in the cabinet?	___	___
d) Are the service elements secured properly?	___	___
e) Is the surge suppressor connected correctly?	___	___
f) What is the voltage at the line side of the meter?	___	___
g) Have ground rod connections been exothermically attached?	___	___
h) Is the center of the meter can 5.5’ above surrounding grade?	___	___
i) Is service meter can and load center locked?	___	___
j) What size wire was used for service? ____AWG		
k) Are surfaces free of scratches or damage?	___	___
l) Is lightning arrestor installed?	___	___
m) Is the black service neutral wire identified per the NEC?	___	___

n) Is the conduit supported every 5'? ___ ___
o) Is the conduit terminated with ground and plastic bushings? ___ ___
p) Is the service grounded per FDOT specifications and Design Standard 17736? ___ ___
q) Is the disconnect is 8' from ground? ___ ___
r) Is the weather head is higher than telephone and cable TV, and 1' bellow neutral? ___ ___

Additional Comments: _____

5) SIGNAL INSTALLATION GROUNDING: (Min Spec and Standard Spec Section 620) YES NO
a) Is all grounding per Standard Index 17736 and FDOT specifications? ___ ___
b) Were exothermic welds used to attach bonding wire to grounding electrode? ___ ___
c) Has the contractor installed the bonding network connecting all poles back to service ground? ___ ___
d) Has the contractor provided ground connection to the pull box cover where required? ___ ___
e) Has the span wires been tied to the pole ground wire? ___ ___
f) Have all pedestrian features been bonded as required? ___ ___
g) Has the drain wire for loop returns been tied to ground? ___ ___
h) Was a sketch showing the location of all ground nodes in intersection provided (see appendix B) ___ ___

Additional Comments: _____

6) PULL and JUNCTION BOXES: (Min Spec and Standard Spec Section 635): YES NO
Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____
a) Are lids stamped “Traffic Signal” and “20K”? ___ ___
b) If required, has the ground rod been installed? ___ ___
c) Are covers secured to the boxes? ___ ___
d) Where required are covers grounded? ___ ___
e) Has the required amount of pea gravel been installed under box? ___ ___
f) Are all conduits sealed? ___ ___
g) Have boxes been located where required? ___ ___
h) Have the cables in the boxes been labeled? ___ ___
i) Are the boxes flush with surrounding grades? ___ ___
j) Are pull boxes installed per Min Spec and Standard Spec 660 and Design Standard 17721? ___ ___
k) Have the pull boxes been installed per section 635 of special provisions? ___ ___
l) Have the pull boxes been grounded in accordance with Design Standards (Index 17503)? ___ ___

Additional Comments: _____

7) CONDUIT: (Section 630)	YES	NO
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 the size of conduit used 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)	YES	NO
a) Is the cable IMSA certified?	___	___
b) Is the color code correct?	___	___
c) Are all connections tight?	___	___
d) Was a calibrated crimper used to crimp terminals?	___	___
e) Were sufficient conductors supplied for present and future heads?	___	___
f) Was the correct strain relief device used?	___	___
g) Have all unused conductors been secured properly?	___	___

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? ___ ___
l) 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?	___	___
l) 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?

Additional Comments: _____

9.2) Prestressed Concrete Poles: (Standard Spec Section 641)	YES	NO
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:	YES	NO
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?	___	___

Additional Comments: _____

9.4) Signal Pole Foundation:	YES	NO
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?	___	___

d) Was the placement of the steel cage in accordance with plans? ___ ___
e) Was the concrete to steel clearance correct? ___ ___
f) Was the proper number of conduits stubbed out? ___ ___
g) Was the anchor bolt pattern correct? ___ ___
h) Were the anchor bolts the right size and length? ___ ___
i) Did the anchor bolts extend the proper height above the foundation? ___ ___
j) Was the foundation the proper width and depth? ___ ___
k) Did the concrete used conform to the design mix? ___ ___
l) Was the batch time and revolutions for the mix checked? ___ ___
m) Is the foundation grounded per FDOT specifications? ___ ___
n) Is the finish of the foundation top acceptable? ___ ___
o) Does it hold water? ___ ___
p) Even with sidewalk? ___ ___

Complete chart below:

POLES	MFG	MATERIAL	TYPE	LENGTH	QUADRANT	**
1						
2						
3						
4						
5						

Additional Comments: _____

10) OVERHEAD EQUIPMENT YES NO

a) Are signals weather-tight (silastic sealant installed per Min Spec A659)? ___ ___
b) Have two ¼" holes been drilled in base of signal head? ___ ___
c) Do 5 section doors open properly (swing outward)? ___ ___
d) Is signal lamp filament in an upright position, forming a "W"? ___ ___
e) Are all lamps the correct wattage? ___ ___
f) Are the signal heads installed per plans? (correct number and location of signals per plans) ___ ___
g) Are signals installed per plans and FDOT specifications (vertical/horizontal and distance from stop bar)? ___ ___
h) What is the distance from head to stop bar? Min._____ Max_____

i) Is at least one head for each approach between 40’ and 150’? ___ ___
j) Is all hardware tight and secure? ___ ___
k) Have the span wires been tensioned properly? ___ ___
l) Has the signal cable been attached properly? ___ ___
m) Are drip loops the correct size and secured properly? ___ ___
n) Is there at least 8’ horizontal separation between heads facing the same direction? ___ ___
o) Are 1-way signal heads plugged at the bottom section? ___ ___
p) Are vehicle traffic signal lamps FDOT certified (135 W, 8000 hrs)? ___ ___
Lamp certification number:
q) Does signal head door swing open properly (downward or out to correct side)? ___ ___
r) Lock washers installed and nuts tight, inside signal heads on brackets? ___ ___
s) Lenses installed properly? (“TOP” on top of lens in signal head)? ___ ___
t) Is Tri-stud serrated adjustable drop hanger installed per manufacturer’s data sheets? ___ ___
u) Does the adjustable drop hangers have the correct overlap and number of bolts (per manufacturer’s instructions)? ___ ___

Record Signal head heights (Mast Arms)

POLE #	ARM #	1	2	3	4	5	6	7	8

Additional Comments: _____

Record Signal head heights (Span Wire)

POLE #	1	2	3	4	5	6	7	8	9	10	11	12

Additional Comments: _____

11) VEHICULAR TRAFFIC SIGNAL ASSEMBLY: (Min Spec and Standard Spec Section 650) YES NO

Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____

a) Is the FDOT certification numbers labels near the terminal block? ___ ___
b) Are the number and location of signals as per the plans? ___ ___
c) Are the signals installed per the plans and FDOT specifications (i.e. vertical/horizontal and distance from stop bar)? ___ ___
d) Are signals within the required minimum and maximum heights per Standard Spec Section 650? ___ ___
e) Are lenses, lamps, and visors installed in proper direction? ___ ___
f) Do horizontally mounted signal head doors open downwards? ___ ___
g) Are all the hardware used made of stainless steel type 304/316? ___ ___
h) Are the Astro Brackets securely fastened with cable tied downs? ___ ___
i) Are all the required conductors terminated with calibrated ratchet type crimp tool? ___ ___
j) Are all the spare conductors individually and properly capped? ___ ___
k) Is the signal head surface free of scratches and dents? ___ ___
l) Disconnect Hanger:
    1) Are cable entrance bushings installed in accordance with Min Spec Section A659? ___ ___
    2) Are unused cable entrances plugged? ___ ___
    3) Are adaptor hubs tight? ___ ___
    4) Are nuts tight and lock washers installed on tri-stud bolts? ___ ___
    5) Are the correct number of disconnects installed per plans? ___ ___

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) 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? ___ ___
l) Is the correct number of signals, pedestals, signs, etc, installed per plans? ___ ___
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 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: _____
Manufacturer: _____ Model/Serial #: _____ FDOT Certification Number: _____

a) Has the contractor provided the correct documentation? ___ ___
b) Do all detector units detect? ___ ___
c) Are all loops (or alternate detection device cabling) labeled and attached to the correct terminals? ___ ___
d) Are loops (or alternate detection device cabling) labeled in pull boxes and in cabinet as to location and movement number? ___ ___

13.1) Inductive Loops:

a) Was the slot for the loops and home runs cut to the proper depth per Standard Spec Section 660 and Design Index 17781? ___ ___
b) Are there more than 4 home run cables in a saw cut? ___ ___
c) Was the window installed correctly? ___ ___
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? ___ ___
l) Was this connection of multiple loops done on a separate terminal block in the cabinet? ___ ___
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? ___ ___

Additional Comments: _____

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?	___	___

Additional Comments: _____

13.1.2) Inductive Loop Test

Record Loop Readings

DIRECTION	PHASE	LOOP#	L	R	Q	FREQ	DELTA L	TYPE

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?	___	___
d) Are stop bars laid out properly in relation to vehicle loops?	___	___
e) Have conflicting markings been removed?	___	___
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)?	___	___
c) Is any new concrete cracking?	___	___
d) Has concrete over spray been removed from painted structures, (where applicable)?	___	___

e) Is general appearance and clean-up is acceptable? ___ ___
f) Does new concrete installed match existing concrete (color, finish, etc.)? ___ ___

Additional Comments: _____

17) REMOVAL ITEMS: YES NO
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: _____

18) CERTIFICATION OF TRAFFIC CONTROL SIGNAL DEVICES: (Min Spec and Standard Spec Section 603) YES 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 NO
a) Measure and record line voltage. _____
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, fan, and thermostat function correctly? ___ ___
j) Are any of the detectors showing a fault or chattering? ___ ___
k) Record time and date of turn on for flash and stop and go. Flash _____ Full _____
l) Did the contractor have qualified personnel at turn on who could program the controller and trouble shoot the system? ___ ___
m) Are all heads aimed correctly? ___ ___
n) Do loops call the correct movement? ___ ___
o) Do the pedestrian detectors call correct movement? ___ ___
p) Measure and record the signal head to stop bar distance for each approach.

APPROACH	MIN	MAX

q) Did the installation function properly at turn on? ___ ___
r) Was signal ready to turn on at the scheduled time? ___ ___
s) Are all cables labeled and neatly arranged? ___ ___

Additional Comments: _____

APPENDIX A

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					

VENC_____THERMOSTAT_____FAN_____HANDSWITCH_____LINE FILTER_____**

SIGNAL HEADS	1	2	3	4	5	6	7	8	9
CLEARANCE HT.									

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