Attachment 2:
City of San Jose Traffic Signal Pre-Turn On Inspection Request Form

Part A: Project Information

Instructions: Contractor must complete this form and submit to Project Inspector to request inspection.

Project:	Contractor Company and Representative:
Intersection:	CSJ Public Works Construction Inspector:
Shop #:	CSJ Public Works Electrical Inspector:

Check one: ☐ New Traffic Signal Installation ☐ Traffic Signal Modification

Part B: Inspection Checklist

Instructions: All items below must be checked off "Y", "NA" or "Pending". For signal modifications, if the work cannot be completed until after shutdown/activation, select Pending. CSJ reserves the right to cancel or cease inspection if this checklist does not meet the minimum requirements.

Tesco Service

Y-NA-Pending

☐☐☐ 1. Proper metering
☐☐☐ 2. Meter released and in place
☐☐☐ 3. PG&E scheduled for disconnect/reconnect
☐☐☐ 4. Proper field wiring out of Tesco
☐☐☐ 5. Bonding and grounding checked
☐☐☐ 6. Conduit size checked, duct sealed
☐☐☐ 7. Anchor bolts sized correctly
☐☐☐ 8. Location and elevation match plans

Traffic Signal Cabinet

Y-NA-Pending

☐☐☐ 9. Location and type match plans
☐☐☐ 10. Conduits installed in right location in base; ends of the conduits duct-sealed
☐☐☐ 11. Conduits, cabinet, ground rod and anchor bolts all bonded together with #8 continuous wire
☐☐☐ 12. PVC conduits have #8 copper equipment ground conductor and end bells
☐☐☐ 13. Ground rod installed
☐☐☐ 14. Anchor bolts are right size and have "cut" threads; rolled threads not permitted
☐☐☐ 15. Proper field wiring installed: loops, phases, spares, and feeders. All wires landed in correct locations
☐☐☐ 16. Detector lead-in cables are soldered
☐☐☐ 17. Neutral and ground conductors on proper buss bars
☐☐☐ 18. Service feeder in correct breaker
☐☐☐ 19. S.I.C. cable installed
☐☐☐ 20. Opticom installed and have the cards for the intersection
☐☐☐ 21. CCTV cables are installed per plan

Traffic Signal and Streetlight Poles

Y-NA-Pending

☐☐☐ 22. Pole types and locations, anchor bolt sizes, and foundations match plans
☐☐☐ 23. High voltage clearances met
☐☐☐ 24. Poles are plumb
☐☐☐ 25. Proper elevation between base plate and foundation cap or sidewalk. Required thickness for mortar for signal poles is 0.1 to 0.3 feet; for streetlights, maximum is 0.1 feet
☐☐☐ 26. Minimum 2' square concrete foundation cap for poles installed in unfinished or dirt area
☐☐☐ 27. Anchor bolts penetrate depth of nuts. For traffic signal standards, shall extend minimum three full threads, maximum two inches above the top nut
☐☐☐ 28. Pole, conduit and anchor bolts bonded with a continuous #8 copper wire
☐☐☐ 29. No traffic signal splices in the base of the pole unless there is no pull box at the base of the pole
☐☐☐ 30. Hand hole cover installed
☐☐☐ 31. All holes in the pole properly filled and smooth. Unused holes welded closed on standards, steel pedestals and posts
☐☐☐ 32. Post top caps installed on the pole and mast arm
☐☐☐ 33. Mast arms have proper rake
☐☐☐ 34. Mast arms proper length
☐☐☐ 35. All splices properly taped and coated. May also use heat shrink tubing and insulated spring connector method

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Pull Boxes

Y-NA-Pending

☐☐☐ 36. Size, orientation, and location match plans

☐☐☐ 37. Grouted with 1" drain hole

☐☐☐ 38. Conduits installed properly: enter the box from the short side and stub in 1-2" into the box at a 45-degree angle

☐☐☐ 39. All metal conduits and ground rods bonded with a min #8 copper wire. PVC conduits have #8 equipment ground conductor

☐☐☐ 40. Pull box covers marked accordingly (service, street light, traffic signal etc.)

☐☐☐ 41. Pull boxes flush with sidewalk or grade

☐☐☐ 42. Ground bushings have proper size lugs

☐☐☐ 43. Conductors properly identified, including S.I.C. cable and Opticom

☐☐☐ 44. Three spare wires installed in each conduit

☐☐☐ 45. Three feet of slack on all conductors. Conductors measured vertically above the pull box grade

☐☐☐ 46. Pull boxes in road are traffic-rated

Wiring Test

Y-NA-Pending

☐☐☐ 47. All conductors and cables properly identified, and metal pull box lid bonded

☐☐☐ 48. New signal megs at 10 megohms or higher; new or mod signal meg reading ____ megohms
At Inspection: ____ megohms
At Activation: ____ megohms

☐☐☐ 49. Fiber baseline test has been performed

Loops and Video Detection

Y-NA-Pending

☐☐☐ 50. Video detection cameras and loops installed per plan and to be tested during inspection (contractor supplies generator if signal has no power)

☐☐☐ 51. Loop tails and lead-in tails twisted two turns per foot. Lead-in cables are led properly

☐☐☐ 52. Slots in the street are completely filled with asphalt emulsion

Streetlights

Y-NA-Pending

☐☐☐ 53. Proper luminaries installed

☐☐☐ 54. Street light installation and modifications match plans

☐☐☐ 55. Street lights and associated wiring ready for turn on

Miscellaneous

Y-NA-Pending

☐☐☐ 56. Potholes filled

☐☐☐ 57. Signal communication infrastructure in place

☐☐☐ 58. All civil intersection improvements complete (ped ramps, pavement, etc.)

☐☐☐ 59. Contractor's Method of Performance (MOP) for Shutdown/Activation

☐☐☐ 60. Contractor ready for Inspection within a week and Activation within three weeks

☐☐☐ 61. Contractor provides adequate lighting at night for work during all shutdowns

☐☐☐ 62. Confirm Power source (public vs private). Provide appropriate signed plans for private power source.

☐☐☐ 63. Signs installed per project plans

Part C: Explanation for NA or Pending (number each item per above)

Part D: Contractor Certification

Contractor Name Printed:	City Construction Inspector Initials:
Contractor Signature:	City Principal Construction Inspector Initials:
Date:	City Electrical Inspector Initials: