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Portland.gov/Transportation

SSL Design Review Checklis	Σ			
Project/Permit Number	Project/Improvement Name			Submittal
Engineer of Record	I	Phone	Email	
I acknowledge that all items	s below have been addressed:		I	
Engineer Signature	Date			
Engineer Printed Name				
		City of P	ortland Use Only	
Reviewed By:			Date:	
Accepted			Rejected	
			Reason for Rejection:	



	SSL	Design	Review	Chec	klist
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Instructions: Design items required at each design phase are indicated by a check mark for that item. If that item has been completed, mark it as "Done". If that item is not applicable to the project, mark it as "N/A".

General Items

30%	60%	90%	100%	Done	N/A				
						1. Show existing and proposed driveways, hydrants, street trees, vaults, and other physical features that impact the placement of signals and street lighting components			
						2. Identify all existing and proposed vaulted sidewalk areas			
						3. Identify street tree type for all trees located closer than 25 ft from street lights or signal equipment (this can be on a civil or landscape plan)			
						 Identify any overhead obstructions (such as canopies) that may impact signal or street light pole placement 			
						Identify if utilities will be overhead or underground			
						6. Identify power source			
						 Show and identify how service panel will be fed from power source 			
						 Provide utility junction box adjacent to service panel 			
						 Identify PGE/PP&L work request number 			
						7. Ensure that striping layout complements signal equipment installation and operation			
						8. Ensure that items shown on civil sheets do not conflict with signal equipment installation and operation			
						9. Use standard engineering scale			
						10.Use PBOT SSL standard symbols and legend			
						11. Title block plan sheet information:			
						Date Approved			
						PBOT Reviewer			
						Intersection Number (for signals and beacons)			
						12. Title block approval signatures			
						13.List standard drawings required			
						14. Provide special provisions and signature sheet			



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Signals & Beacons (see Traffic Signal Design Guide: https://www.portlandoregon.gov/transportation/article/643224)

30%	60%	90%	100%	Done	N/A	
						1. Provide Legend
						2. Provide Signal/Beacon Plan
						2.1. Show and identify all signal equipment (cabinet/controller, service panel, poles, signals, signs,
						lighting)
						2.2. Phase diagram and phase rotation diagram
						2.3. Show and identify the underground circuitry for the signal (pull boxes, conduit/wiring)
						2.4. Verify pole foundation types and locations
						 Standard foundations (check for utility conflicts and vaulted sidewalks)
						Provide proposed special design details, if applicable
						 Provide supporting calculations stamped and signed by an Engineer, if applicable
						2.5. Pole schedule
						2.6. Mast arm clearance calculations
						2.7. Construction notes/general notes
						3. Provide Wiring Diagram
						3.1. Include intersection wiring and terminal cabinet wiring schematics
						4. Provide Detection Plan
						4.1. Show and identify all detection equipment (detection devices, poles)
						4.2. Phase diagram (matching Signal Plan)
						4.3. Show and identify the underground circuitry for the detection (pull boxes, conduit/wiring)
						4.4. Loop wiring diagram, if any wiring changes
						4.5. Input file diagram
						4.6. Construction notes/general notes
						5. Provide Interconnect Plan
						5.1. Show and identify all interconnect equipment (wireless radio, PTZ camera, utility poles, signal poles)
						5.2. Show and identify the underground circuitry for the interconnect (pull boxes, conduit/wiring)
						5.3. Communications components schedule
						6. Provide Removal Plan
						6.1. Show and identify all signal equipment to be removed
						6.2. Show and identify all signal equipment to be salvaged



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Street Lighting (see Street Lighting Guidelines: https://www.portlandoregon.gov/transportation/article/714407)

30%	60%	90%	100%	Done	N/A	
						1. Provide Photometric Analysis
						Lighting layout on photometric analysis and plans match
						 Provide electronic and printed versions of all inputs and outputs using analysis software
						 Provide average horizontal illuminance level (footcandles)
						 Provide uniformity ratios (avg/min and max/min)
						 Provide output drawing showing illuminance levels point-by-point.
						2. Provide Voltage Drop Calculations
						 Use City-approved method and one-phase system
						 Size wires such that a maximum voltage drop of 3% is not exceeded
						 Minimum allowable wire size is #10 AWG and maximum is #2 AWG
						 Verify load on each circuit breaker is less than 80% of its rated size
						3. Provide Legend
						4. Provide Lighting Plan
						4.1. Show and identify all lighting equipment (service panels, poles, luminaire arms, luminaires,
						photocell) on and across from project frontages
						4.2. Verify pole foundation types and locations
						 Standard foundations (check for utility conflicts and vaulted sidewalks)
						Provide proposed special design details, if applicable
						 Provide supporting calculations stamped and signed by an Engineer, if applicable
						4.3. Pole schedule
						4.4. Show and identify the underground circuitry (pull boxes, conduit/wiring)
						 Provide a pull box in the furnishing zone, adjacent to every light, unless directed otherwise
						 Route conduit runs under the sidewalk, outside of tree wells, typically 2 ft from back of sidewalk
						unless directed otherwise
						Identify photocell location with proper callout
						 Provide power to photocell using 3 #10 AWG conductors



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Street Lighting Cont. (see Street Lighting Standards: https://www.portlandoregon.gov/transportation/article/714407)

30%	60%	90%	100%	Done	N/A	
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						4.5. Panel schematic diagram
						Size panel appropriately
						 100 A panel is connected with 3 - #2 AWG
						60 A panel is connected with 3 - #6 AWG
						20 A panel is connected with 3 - #8 AWG
						4.6. Circuit schematic diagram
						4.7. Show and identify all lighting equipment to be removed (even temporarily during building
						construction, if known)
						4.8. Show and identify all lighting equipment to be salvaged
						4.9. Construction notes/general notes
						5. Temporary Street Lighting Plan
						 If it is known that temporary street light removals will be required to accommodate construction,
						provide a temporary street lighting plan that contains:
						 Street lights to be removed, identified with City pole numbers
						 Temporary street lighting details (pole, luminaire, etc.)
						 Estimated date and duration of removal



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Addi	tiona	Com	ments	5	
30%	60%	90%	100%	Done	N/A

