



City of Puyallup

Engineering Division

333 S. Meridian, Puyallup, WA 98371

(253) 864-4165

www.cityofpuyallup.org

HENSEL PHELPS
122 E STEWART AVE
PUYALLUP, WA 98372-3007

March 01, 2023

RE: INSPECTION PUNCHLIST FOR PERMIT E-21-0022 DP3 Sound Transit Puyallup Station

To Whom It May Concern:

City of Puyallup's Development Engineering has completed, at your request, a final inspection of the above referenced permit number.

The following is a list of outstanding items that must be completed prior to Engineering's final acceptance of the work. Please note that this list has been broken into two sections:

Section A are considered life/safety items that must be completed for the utilities to operate and be maintained as intended. **Therefore, Section A must be completed and accepted before Development Engineering can consider the project adequately complete and to allow issuance of an Occupancy Permit.**

Section B are punchlist items, and as such, do not have to be completed prior to occupancy. However, the items listed under Section B must be guaranteed to be completed within 90 days from the date of this letter. The City of Puyallup requires an assignment of funds in the amount of **\$75,000.00** to guarantee completion of the punchlist items. In lieu of the assignment of funds, the City may be willing to accept a mutually agreed Letter of Understanding from Sound Transit which guarantees completion of the work.

SECTION A

(ITEMS WHICH MUST BE COMPLETED PRIOR TO OCCUPANCY)

WATER:

- Complete and return the "Construction Completion Report for Distribution Main Projects" signed and sealed by a licensed professional engineer per WAC 246-290-120(5). Request form from the City's project engineer, Mark Higginson, mhigginson@puyallupwa.gov.

STORM:

- Provide the City with a letter from the design engineer certifying the proper installation of permanent stormwater controls and compliance with the stormwater site plan.
- Install correct lids on STEW SDMH # 4 & STEW SDMH # 5 castings.

- Provide inspection reports from manufacturer on all Water Quality Vaults/Storm Filters.
- Remove all catch basin inserts.

STREET:

- Provide Maximum Extent Feasibility (MEF) letter stamped by a licensed professional engineer for the non-compliant ADA upgrades at the SE corner of Stewart and 7th St NW.
- Provide Maximum Extent Feasibility (MEF) letter stamped by a licensed professional engineer for the non-compliant ADA upgrades at the SW corner of Stewart and 2nd St NW (West entrance to existing Sounder Lot).
- Install "Caution Look Both Ways" signage at 5th St NW and 7th St NW RR crossings.
- Resolve the placement of "Caution Look Both Ways" signage on the east side of 5th St NW (clarify where these will be installed).
- Install correct R9-3 "No Pedestrian Crossing" signs in all locations.
- Install "No Pedestrian Crossing", "Use Crosswalk" signage at 7th St NW on north side of RR tracks.
- Install "No Pedestrian Crossing" on both sides of 7th St NW just north of 3rd Ave NW (without "use crosswalk" signage). Sign on east side can be mounted on light pole
- Install "No Pedestrian Crossing", "Use Crosswalk" signage at 5th St NW just south of RR tracks.
- Install "No Pedestrian Crossing", "Use Crosswalk" (2ea "Use Crosswalk" one facing west and one facing east) signage on the east side of 5th St NW near the abutment.
- Install "Stop Here On Red" sign on NB 5th St NW approach within planter area (not to be installed on aux signal pole). Provide City with feasibility prior to installation.
- Reinstall/straighten stop sign at east end of 2nd Ave NW.
- Complete pre-signal design and install at 5th St NW and 7th St NW.
- Install "C" on City street lights per COP Standard Detail 01.05.01 note 1-f.
- Remove and replace cracked C&G, sidewalk, and valley gutter per site walk and as marked out in the various work areas.
- Bolt down J-box lids along 3rd Ave NW & 2nd Ave NW.
- Remove "Signal Revision Ahead" signage.

TRAFFIC:

- Prior to garage opening to the public, the 5th St NW corridor signals shall be fully operational and running in adaptive mode. Signal specs require adaptive system to be fully optimized for 2 weeks prior to the garage opening. However, the City has previously agreed to 1 week of adaptive operation (non-optimized) prior to garage opening. The start date for the 1 week adaptive operation shall be mutually agreed upon by City, Sound Transit, and Hensel Phelps.
- Resolve any outstanding RailPros/BNSF action items.
- 5th St NW/2nd Ave signal is not fully operational due to the signal going into all red flash after a few days of operation. (City staff are coordinating with STC & McCain on a solution).
- At the reconstructed western transit center driveway on W Stewart, yellow curb paint (clearzone) was not reinstalled after installation. Coordinate with City on exact location of required curb paint.
- Modifications to pre-signal and signage to be captured in the record drawings.
- May need to relocate the 7th St NW northbound "Do Not Stop On Tracks" sign. To be reevaluated once the 7th St NW aux pre-signal is relocated.

- Temp striping at 7th/Stewart signal is not placed correctly. Prior to thermoplastic application, confirm permanent locations with City staff.
- Provide completed Traffic Signal Turn-On Checklist (required per implementation procedure).
- Provide updated configuration memo capturing all changes to design/programming assumptions.
- Rhythm Engineering Action items for on-site configuration:
 - a. Camera firmware update at 4th/Stewart.
 - b. Possible SDLC firmware configuration/update.
 - c. Coordinate with City for remote non-optimized adaptive turn-on? City will assist with modifying configuration of 2070 OMNI controllers to accept adaptive control.
 - d. On-site adaptive optimization action items:
 - i. Trigger configuration to handle RR post flush operation (at W Stewart and maybe W Pioneer).
 - ii. 5th St/Stewart configuration to better utilize the NBL turn pocket at Stewart during normal operation.
 - iii. See Section B below for the post garage opening on-site optimization of the 5th St corridor, corridor to run "free" during off-peak times (based on data collected).
 - iv. In-Time modules were installed for the initial 5th St adaptive deployment but were never configured. I believe we need a new antenna for the new 4th/Stewart cabinet.
 - v. Detection zones for the new EBR turn pocket at Meridian/Stewart were never setup. The City added new detection zones for the EB approach, but requests they are checked/verified. Also, need to verify operation of RR preemption trigger at this intersection.

SIGNALIZATION-5TH St NW & 2ND Ave NW:

- Secure DIN Relay inside cabinet with rack mount hardware.
- Secure Cisco Switch inside cabinet with rack mount hardware.
- Secure Rhythm SDLC inside cabinet with rack mount hardware.
- Dress up wires and cables inside cabinet.
- Re-Seal BBS base at concrete pad.
- Cap off exposed tenon on northbound mast arm.

SIGNALIZATION-W. STEWART & 4TH St NW:

- Secure Din Relay inside cabinet with rack mount hardware.
- Secure Cisco Switch inside cabinet with rack mount hardware.
- Terminate Temperature Sensor lead for BBS inside cabinet.
- Dress up wires and cables inside cabinet.
- Seal around camera cables on mast arm (Southbound Camera.)
- KO seal on NE corner mast out towards end of mast.
- KO seal on NW corner pole. Hole drilled in pole on sidewalk side for pulling wire.
- Seal around camera cables on NW corner of mast arm.

SIGNALIZATION- W. STEWART & 7TH St NW:

- Secure Grid Smart Detection Box inside cabinet with rack mount hardware.
- Secure Cisco Switch inside cabinet with rack mount hardware.
- Dress up wires and cables inside cabinet.

- KO Seal on backside of SW corner mast arm. Pull string hanging out of hole.

MISCELLANEOUS:

- Verify that all overtime fees have been paid. Contact Engineering Support Specialist Robyn Buck at 253.435.3617, or via email at RBuck@ci.puyallup.wa.us.
- Provide an executed and recorded copy of the City's Parking Garage Use Agreement.
- Provide an executed and recorded copy of the Bridge Airspace Easement.
- Provide executed and recorded copies of required ROW dedications as discussed with the City.
- Provide executed and recorded copies of required easements as discussed with the City.

SECTION B

(ITEMS COVERED BY AN ASSIGNMENT OF FUNDS TO ALLOW OCCUPANCY)

STREET:

- Provide correspondence between Sound Transit and City associated with the Approval Order from the Washington Utilities and Transportation Commission (UTC) for each roadway-crossing enhancement(s).
- Install all permanent striping per COP standards and approved plans.
- Developer/Contractor shall be responsible to secure all street-lighting j-boxes from vandalism and theft until such time that the street lighting is accepted and under operation by the City. J-boxes shall be secured by placing an ecology block temporarily over the top of the boxes, tack welding the lids, or other means which will not permanently damage the j-boxes. Upon request of the City, temporary protection measures shall be removed and the j-boxes restored, as necessary, to their original installed condition.)
- Conduct on-site adaptive optimization shortly after the garage has been opened to the public.
- At 7th/Stewart, the far side programmable heads (Northbound) appear to need additional adjustments. It's possible the previous modifications are now out of adjustment.
- Confirm EV preemption (Opticom)...City to conduct test.
- Limited-service function at 5th/2nd
 - a. SB Red indication (NB Green) during rail event seems counterintuitive. City will coordinate with STC/RailPros on an acceptable solution.
- Rhythm Engineering Action items for on-site configuration:
 - d. On-site adaptive optimization action items:
 - iii. For the post garage opening on-site optimization of the 5th St corridor, corridor to run "free" during off-peak times (based on data collected).
- Sound Transit shall provide written assurance that the Project Team shall timely respond to any signal failure upon being notified by the City. The written assurance shall be for the duration of the Contractor's contractual warranty period.

MISCELLANEOUS:

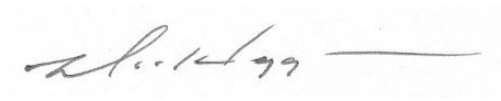
- Provide the City with an electronic version of the record drawings in the following formats:
 - AutoCAD Map 2007 or newer in State Plane South Projection
 - PDF

- Provide the City with data for all new infrastructure installed for this project. This data is to be provided by the design engineer. (Ref. Higginson email dated 02-14-23).

Upon completion of the items listed under Section B, the City will release the assignment of funds back to you. If any or all the items listed under Section B are not completed within **90** days of the date of this letter, the City has the right to use the funds being held to complete the remaining work.

After completion of the above work, please contact the project's Engineering Inspector, Michael Rosenau, at (253) 841-5411 and schedule a punchlist inspection through the [CityView portal](#). If you have any questions regarding any of these items, please contact Michael Rosenau or myself.

Sincerely,



Mark Higginson
Senior Civil Engineer
(253) 841-5559
MHigginson@PuyallupWA.gov

Cc: Michael Rosenau, City of Puyallup Engineering Inspector
Robyn Buck-Holdener, City of Puyallup Engineering Support Specialist
HENSEL PHELPS JIM HICKERNELL, Permit Holder