Appendix Q. Maintenance of Traffic Exhibits
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Note: for northbound Williams Ave temporary bike lane and pedestrian routing, see Active Transportation Staging Exhibits

Assumptions:

Maintain 2 WB lanes on Broadway and 3 EB lanes on Weidler St during construction.

Flint and Vancouver bridges still in service in existing locations. Some construction activities may require short to medium duration street or ramp closures.

Streetcar operates on existing tracks with short-duration interruptions to install temporary alignments. SB off ramp and NB on ramp may require limited duration closures during Streetcar track installation.

South Cover Assumed Construction Sequence:

1) Phase 1, Stage 1: Construct temporary Shoofly “off road” improvements. Begin construction of Temporary Shoofly Bridge. (See sheet 2)

2) Phase 1, Stage 2: Construct temporary Williams Avenue intersection improvements and complete eastern temporary bridge abutments (under lane reduction and limited duration full closure) (See sheet 3)

3) Phase 1, Stage 3: Construct temporary Vancouver Ave/A5 SB Exit/Broadway intersection improvements (under lane reduction and limited duration full closure). Construct temporary signal work associated with interim streetcar alignments. (See sheet 3)

4) Phase 1, Stage 4: Construct temporary streetcar track connections on Broadway Ave (under lane reduction and limited duration full closure). Reopen to traffic in final configuration. (See sheet 4)

COMFORT SPEEDS SHOWN BASED ON HDM Table 3-5

Under Construction
Construct Under Traffic
Road Diet Lane Reduction
Short Duration Closure

CONCEPT DESIGN ACCEPTANCE PLANS
INFORMATION ONLY

SOUTH COVER StAGING
South Cover Assumed Construction Sequence:

1) Construct temporary access through the Shell Gas Station to the WB Shoofly Structure

2) Reroute pedestrians to the south side of Broadway Street

3) Construct temporary Broadway shoofly bridge
South Cover Assumed Construction Sequence:

1) Phase 1, Stage 2: Complete construction of temporary Broadway @ Williams Ave intersection and temporary streetcar tracks under limited duration full closure.

2) Phase 1, Stage 3: Complete construction of temporary Vancouver/1-5 SB exit/Broadway intersection and temporary streetcar tracks under limited duration full closure.
South Cover Assumed Construction Sequence:

1) Construct temporary streetcar track connections on Broadway Ave (under lane reduction and limited duration full closure)

2) Reopen to traffic in final configuration

Assumptions:
Assumes WB access to I-5 entrance ramp can be maintained.
Assumes short duration closure of WB Broadway at Vancouver Ave to construct Streetcar track tie-ins or additional temp widening to maintain one WB lane of travel.
**South Cover Assumed Construction Sequence:**

1) Close NB Williams Ave from Broadway to Weidler
   Demolish existing Broadway/Williams Bridge.
2) Construct portion of new eastern wall
3) Construction temporary wall and temporary
   NB pavement widening.

**Assumptions:**

- Maintain 2 WB lanes on Broadway and 3 EB lanes on Weidler St during construction.
  NB Williams St closed between Broadway and Weidler St.

Two lanes in each direction will be maintained on I-5 during cover construction with
local streets operating on temporary shoulder structures.

Temporary widening occurs at existing freeway grade (Subject to contractor preference).

Detour NB Williams traffic to Victoria.
South Cover Assumed Construction Sequence:

1) Construct exterior west cover abutment
2) Construct interior median abutment and median wall
3) Complete exterior east cover abutment
4) Construct middle portion of cover. Construct off-roadway temporary streetcar tracks and OCS
5) Construct in-roadway temporary streetcar track connections at Victoria and Weidler.

Assumptions:

Maintain 2 WB lanes on Broadway and 3 EB lanes on Weidler St during construction. NB Williams St closed between Broadway and Weidler St.

Two lanes in each direction will be maintained on I-5 during cover construction with Broadway street operating on temporary shallow structures.

Temporary widening occurs at existing freeway grade (Subject to contractor preference).
**South Cover Assumed Construction Sequence:**

1. Move Broadway traffic including Streetcar onto newly constructed cover.
2. Move Weidler traffic including Streetcar onto newly constructed cover in a shoofly-like alignment.
3. Construct north and south ends of the cover.

**Assumptions:**

Maintain 2 WB lanes on Broadway St and 2 EB lanes on Weidler St during construction.

Shifted two lanes in each direction of 12 traffic to the outside on temporary pavement in the respective directions to provide sufficient room for center pier column construction.

Construct center pier foundations and columns.

Construct center portion of south cover deck.

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**CONCEPT DESIGN ACCEPTANCE PLANS INFORMATION ONLY**

**COMFORT SPEEDS SHOWN BASED ON HDM Table 3-5**

- Temp signal (Victoria open)
  - $R = 356$
  - $e = -2\%$
  - Comfort Speed = 30 mph
- Temp signal
  - $R = 260$
  - $e = -2\%$
  - Comfort Speed = 26 mph

**SOUTH COVER STAGING**