AGC California State Board of Directors

January 24, 2014

Transbay Transit Center
Transbay Service Providers
Substructure

- Water table
- Mat Foundation
- CDSM Shoring Wall
- Micropiles
## Construction Milestones

<table>
<thead>
<tr>
<th>Key Schedule Dates</th>
<th>Baseline</th>
<th>25-Nov-13</th>
<th>Float</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Utility Relocations</td>
<td>8-Jul-13</td>
<td>16-May-14</td>
<td>850</td>
</tr>
<tr>
<td>Complete First Mat Pour</td>
<td>8-Jul-13</td>
<td>9-Sep-13</td>
<td>A</td>
</tr>
<tr>
<td>Complete Zone 2 Mat Pour</td>
<td>27-Aug-13</td>
<td>24-Nov-13</td>
<td>A</td>
</tr>
<tr>
<td>Complete Excavation</td>
<td>6-Jan-14</td>
<td>3-Mar-14</td>
<td>61</td>
</tr>
<tr>
<td>Complete Zone 1 Concourse Level Deck</td>
<td>7-Mar-14</td>
<td>10-Jul-14</td>
<td>45</td>
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<tr>
<td>Begin Steel Erection</td>
<td>6-Jun-14</td>
<td>18-Jul-14</td>
<td>0</td>
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<tr>
<td>Complete Steel Superstructure</td>
<td>19-Nov-15</td>
<td>1-Dec-15</td>
<td>0</td>
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<tr>
<td>Connect Bus Ramps to Transit Center</td>
<td>1-May-16</td>
<td>25-Aug-16</td>
<td>13</td>
</tr>
<tr>
<td>Complete Rough Interiors</td>
<td>17-Aug-16</td>
<td>1-Dec-16</td>
<td>61</td>
</tr>
<tr>
<td>Complete Exterior Curtain Wall</td>
<td>5-Jan-17</td>
<td>23-Nov-16</td>
<td>35</td>
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<tr>
<td>Complete Finish Interiors</td>
<td>25-Jul-17</td>
<td>9-Aug-17</td>
<td>50</td>
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<tr>
<td>Begin Bus Operations</td>
<td>23-Oct-17</td>
<td>23-Oct-17</td>
<td>0</td>
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<tr>
<td>Final Completion</td>
<td>28-Mar-18</td>
<td>21-Jan-18</td>
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</table>

A = Actual Completion Date
Transit Center
Procurement

Trade Packages Issued for Bid:

**TG07.2** Structural Concrete

**TG08.1** Curtain Walls and Skylights
Addendum 8

**TG08.2** Exterior Awning

**TG18.1** Bus Ramps
Transit Center Procurement

Requests for Qualifications:

TG07.5  Metal Stairs and Ladders

TG10.2  Plumbing

TG10.3  HVAC (heating, ventilation, & air conditioning)

TG10.4  Electrical

TG10.5  Fire Suppression

TG14.1  Elevators and Escalators
BSE Timeline Summary

- Pre-Trenching: 2011
- CDSM Shoring Wall: 2012
- Buttress Construction: 2012
- Construct Traffic Bridges: 2013
- Excavation and Bracing: 2013
- Re-Bracing and Trestle Removal: 2014
Excavation Progress
Excavation and Bracing
Micropiles
Geothermal Piping
Below Grade Concrete Timeline Summary

- 2013: Grounding and Geothermal
- 2014: Horizontal and Vertical Waterproofing
- 2014: Mat Slab
- 2014: Train Box Wall
- 2015: Lower Concourse Slab
- 2015: Lower Concourse Wall
Waterproofing
Mat Foundation Slab Placement
Mat Foundation Slab Pour
Number 9 of 15
Train Box Columns
Bracing Removal
SuperStructure Steel
## Cast Node Fabrication as of December 17, 2013

<table>
<thead>
<tr>
<th>Cast Nodes</th>
<th>Bradken Casting Totals</th>
<th>In-Process Pattern Completion</th>
<th>In-Process Casting Machining</th>
<th>Shipped to Skanska (6 Shipments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Level</td>
<td>35</td>
<td>9</td>
<td>8</td>
<td>0</td>
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<tr>
<td>Bus Deck Level</td>
<td>75</td>
<td>13</td>
<td>4</td>
<td>0</td>
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<tr>
<td>Roof Level</td>
<td>138</td>
<td>2</td>
<td>10</td>
<td>0</td>
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<tr>
<td>Light Columns</td>
<td>56</td>
<td>11</td>
<td>7</td>
<td>0</td>
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<tr>
<td>Total Cast Nodes</td>
<td>304</td>
<td>35</td>
<td>29</td>
<td>0</td>
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</table>
Cast Node Fabrication

Pattern Development
Cast Node Fabrication

Nodes ready for machining
Cast Node Fabrication

Machining in progress
Utility Relocation - AWSS Installation

- AWSS work continues at night to accommodate bus traffic.
- Work continues on Mission Street from working west from Main to Beale Streets.
Activity at Adjacent Sites
Construction
The Next 90 Days

• Next 30 Days (January)
  – Complete Zone 4 Level D Bracing.
  – Complete excavation.
  – Continue foundation walls in Zones 1 and 2.
  – Complete Zone 3 micropiles, start Zone 4.
  – Complete Zone 3 grounding and geothermal installation.
  – Continue Cast Node fabrication.
  – Continue AWSS work between Main and Beale Streets on Mission Street.

• In 60 Days (February)
  – Complete remaining Zone 3 mud slab installation.
  – Continue Zone 4 micropiles.
  – Continue foundation walls, columns and re-bracing in West & Central zones.
  – Award bid packages 7.2, 8.1 and 8.2.

• In 90 Days (March)
  – Begin work on Lower Concourse slab, Zone 2.
  – Pour mat slab 11 in Zone 3.
  – Receive bids for the Vertical Transportation (BP 14.1) package.
2015
Western Zone – Ground Level
Thank You