Vallejo B Substation
Station Rebuild Plan

Agenda

- Project Background, Meeting Objective – Jamie Dean
- Project Objective, Schedule – Phani Mullapudi
- Substation Wall Visual Presentation – Tara Soekland
- Landscaping – Lindsey Welchoff
- Question and Answers

Background

- Substation serves nearly 23,000 customers in the City of Vallejo.
- 4kV switchgear and banks are inside an old brick-clad building, that is seismically deficient and needs to be demolished.
- Per historic evaluation by PGE's consultants, the building is deemed not historic.

Meeting Objective

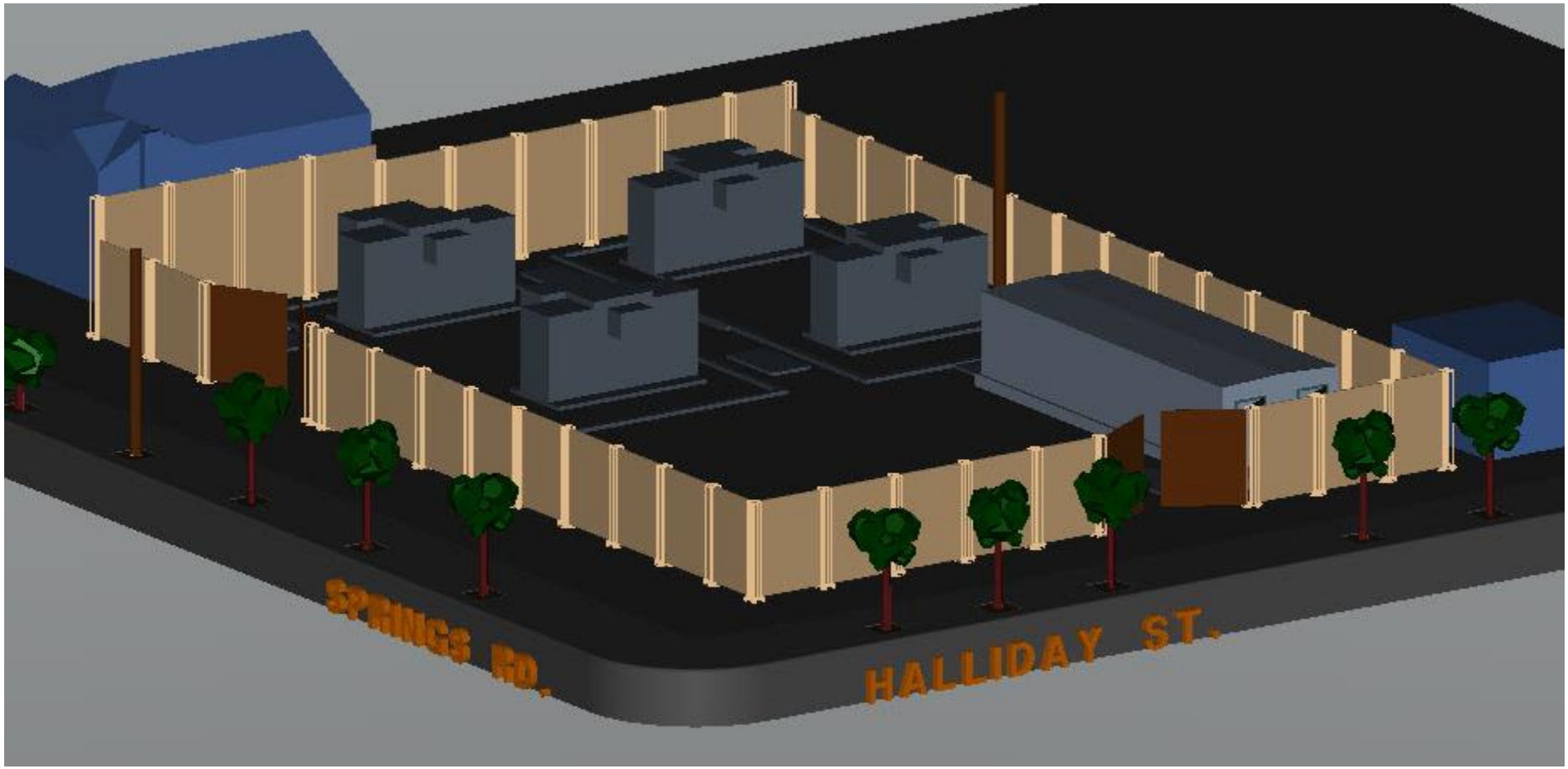
- Present the upcoming plan of demolition of the old building, review proposed sound walls and vegetation with input from the City of Vallejo and the community in which the substation serves.

Project Objective

Rebuild Substation for Safety and Reliability

- Replace five (5) old transformers with four (4) new units rated at 21/4kV-10/12.5MVA and 21/12kV-10/12.5MVA
- Replace old 4kV switchgear with Metal Clad type

Ultimate Station Layout



Schedule - Milestones

Vallejo B Project: High-Level Schedule									
	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019
Install New Banks & Swgr									
Demo Old Building									
Install Sound Walls, Gates									

DRAFT

Figure 1.01

Photo Location Map

Vallejo B Substation | Perimeter Wall and Gate Visualization

Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option A - 'Stamped Adobe' with Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

*NOTE: Final selection of wall design is to be determined.

Stantec

DRAFT

Image Data

Date of Photo:	July 27, 2018
Time of Day:	10:45am PST
Direction of View:	Northeast
Distance to Project:	130 feet

Camera Data

Camera Model:	Canon EOS 5DS R
Camera Lens:	Canon EF50mm f1.4 USM
Camera Height:	Sixty Inches
Camera Angle:	Level (0°)

Figure 2.01-A

Photo Location 1 - Contra Costa Street South of Springs Rd

Vallejo B Substation | Perimeter Wall and Gate Visualization

Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option A - 'Stamped Adobe' with Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

*NOTE: Final selection of wall design is to be determined.

Modeling: Ed White, Graphic Designer

Photography: Dalton LaVoie, Landscape Architect

Stantec

DRAFT

Image Data

Date of Photo:	July 27, 2018
Time of Day:	11:45am PST
Direction of View:	Northwest
Distance to Project:	85 feet

Camera Data

Camera Model:	Canon EOS 5DS R
Camera Lens:	Canon EF50mm f1.4 USM
Camera Height:	Sixty inches
Camera Angle:	10°

Figure 2.02-A

Photo Location 2 - Springs Rd at Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option A - 'Stamped Adobe' with Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

*NOTE: Final selection of wall design is to be determined.

Stantec

DRAFT

Image Data	
Date of Photo:	July 27, 2018
Time of Day:	12:57pm PST
Direction of View:	West
Distance to Project:	55 feet

Camera Data	
Camera Model:	Canon EOS 5DS R
Camera Lens:	Canon EF50mm f1.4 USM
Camera Height:	Sixty Inches
Camera Angle:	Level (0°)

Figure 2.03-A

Photo Location 3 - Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Photography: Dalton Labs, Landscape Architect Modeling: Ed Wilk, Graphic Designer Geographic Positioning & Baseline: Dalton Labs, Landscape Architect & the Basemap is Sanborn CAD for Vallejo

Menlo

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option B - 'Menlo' with Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

*NOTE: Final selection of wall design is to be determined.

Stantec

DRAFT

Image Data	
Date of Photo:	July 27, 2018
Time of Day:	11:45am PST
Direction of View:	Northwest
Distance to Project:	85 feet

Camera Data	
Camera Model:	Canon EOS 5DS R
Camera Lens:	Canon EF50mm f1.4 USM
Camera Height:	Sixty Inches
Camera Angle:	10°

Figure 2.02-B

Photo Location 2 - Springs Rd at Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Photography: Dalton Lidvik, Landscape Architect

Modeling: Ed Witt, Graphic Designer

Geographic Positioning & Bearings: Dalton Lidvik, Landscape Architect & Mike Poggesch Sarbin/CAD Technician

Menlo

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option B - 'Menlo' with Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

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PG&E Stantec DRAFT

Image Data	
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Direction of View:	Northeast
Distance to Project:	130 feet

Camera Data	
Camera Model:	Canon EOS 5DS R
Camera Lens:	Canon EF50mm f1.4 USM
Camera Height:	Sixty Inches
Camera Angle:	Level (0°)

Figure 2.01-B

Photo Location 1 - Contra Costa Street South of Springs Rd

Vallejo B Substation | Perimeter Wall and Gate Visualization

Menlo

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option B - 'Menlo' with Plants*

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Camera Height:	Sixty Inches
Camera Angle:	Level (0°)

Figure 2.03-B

Photo Location 3 - Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Menlo and Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option C - 'Menlo' Caps/ Columns with 'Stamped Adobe' Panels and Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

*NOTE: Final selection of wall design is to be determined.

Photography: Dalkin Lavida, Landscape Architect
Modeling: Ed White, Graphic Designer
Geographic Positioning & Bearings: Dalkin Lavida, Landscape Architect & Ike Poggensch Senior CAD Technician

Stantec

DRAFT

Image Data	
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Distance to Project:	55 feet

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Camera Angle:	Level (0°)

Figure 2.03-C

Photo Location 3 - Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Menlo and Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option C - 'Menlo' Caps/Columns with 'Stamped Adobe' Panels and Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

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Camera Height:	Sixty inches
Camera Angle:	10°

Figure 2.02-C

Photo Location 2 - Springs Rd at Halliday St

Vallejo B Substation | Perimeter Wall and Gate Visualization

Photography: Dalton LaVoie, Landscape Architect Modeling: Ed White, Graphic Designer Geographic Positioning & Bearings: Dalton LaVoie, Landscape Architect & Rise Baggerly Surveyor/CAD Technician

Menlo and Stamped Adobe

BEFORE - Original Photo

AFTER - Photo Simulation

Wall Option C - 'Menlo' Caps/ Columns with 'Stamped Adobe' Panels and Plants*

CONTEXT - Original Photo (above left) within Original Panoramic Context

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Camera Height:	Sixty inches
Camera Angle:	Level (0°)

Figure 2.01-C

Photo Location 1 - Contra Costa Street South of Springs Rd

Vallejo B Substation | Perimeter Wall and Gate Visualization

Photography: Dalkin Litvak Landscape Architect | Models: Ed White, Graphic Designer | Geographic Positioning & Beatrice Dalkin Litvak, Landscape Architect & Site Research Sevin/CAD/Sketcher

Vallejo B Substation

Perimeter Wall and Gate Visualization - Vallejo, CA

The following is a proposed restoration concept that works as a visual screen to the substation. Please note the proposed restoration represents the vegetation at full maturity.

Proposed Restoration

Existing

Existing

Proposed - Stamped Adobe Wall w/ Plants

Proposed - Stamped Adobe Wall w/ Plants

Proposed - Menlo Wall w/ Plants

Proposed - Menlo Wall w/ Plants

Proposed - 'Menlo' Caps/Columns w/ 'Stamped Adobe' Panels & Plants

Proposed - 'Menlo' Caps/Columns w/ 'Stamped Adobe' Panels & Plants

Proposed Vegetation

Santa Cruz Island Buckwheat
(Eriogonum arborescens)

Size: 1 gallon

Red Yucca
(Hesperaloe parviflora 'Surprise Bouquet')

Size: 1 gallon

Yellow Yucca
(Hesperaloe parviflora 'Yellow')

Size: 1 gallon

White Sage
(Salvia apiana)

Size: 1 gallon

PG&E Critical Infrastructure Information. Facilities to be operated by PG&E personnel only. Work area locations are approximate and for illustrative purposes only. Data subject to updates. Call 811 before you dig. The proposed vegetation includes water-wise plants suited for most California climate zones, however each location is different. Please consult your local nursery for more information.

10/03/18

Questions ?
send to electricreliability@pge.com
Attn: Tara Soekland