Study Session Notice & Agenda

February 13, 2020

Joint Study Session Agenda
Valley Metro RPTA and Valley Metro Rail
Thursday, February 20, 2020
10:30 a.m.
Conference Room 10A
101 N. 1st Avenue, 10th Floor

Study sessions provide a less formal setting for the Boards of Directors to discuss specific topics, at length, with each other and Valley Metro staff members. Work study sessions provide an opportunity for staff to receive direction from the Boards and for the public to observe the discussions.

1. Capital & Service Development Program

Staff from the Capital & Service Development Division (CSD) will provide the Boards with an overview of Valley Metro’s current and recently completed capital and service development projects.

Qualified sign language interpreters are available with 72 hours notice. Materials in alternative formats (large print or flash drive) are available upon request. For further information, please call Valley Metro at 602-262-7433 or TTY at 602-251-2039. To attend this meeting via teleconference, contact the receptionist at 602-262-7433 for the dial-in-information. The supporting information for this agenda can be found on our web site at www.valleymetro.org.
Study Session Background

DATE
February 13, 2020

SUBJECT
Capital & Service Development Program

BACKGROUND | DISCUSSION
The purpose of this item is to provide the Boards with an overview of Valley Metro’s current and recently completed capital and service development projects.

The Capital & Service Development Division is responsible for all bus and rail capital project development, which includes all planning, design and construction activities. In addition, the Division leads all bus and rail service planning. The attached PowerPoint provides a summary of projects currently underway throughout the region.

The presentation includes the following general topics:

1. Introduction to Capital and Service Development
2. Rail program expansion
   - Rail corridor design and construction projects
   - Community relations
   - Art program
3. Ongoing rail system improvements
4. Bus system support facilities
5. Bus and rail planning
   - Capital planning projects
   - Service planning

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ATTACHMENT
PowerPoint presentation
Capital & Service Development Program

Board Study Session

February 20, 2020
Valley Metro Regional Projects

Legend:
- Light Rail Capital Expansion
- Ongoing Improvements to the Light Rail System
- Bus System Facilities Improvements
- Planning Projects Throughout the Service Area
- Capital Planning
- Service Planning

Rail System Expansion
High Capacity Transit Corridors

LRT Program To Date

Initial Project
• 20 miles
• Grand Opening - 2008

Expansion to Date
• 8 miles - 3 projects
• 50th St Station

Capital Investment - $2.3 B
50th Street Station – Now Open!

Gilbert Road Extension – Now Open!
Tempe Streetcar
Tempe Streetcar Vehicle

Dual Mode Operation: Overhead wire/battery

Off-Wire Operation
Battery Power
Streetcar Stop Example

Rio Salado/Ash Roundabout
**Light Rail Crossing Installation**

- 5 connections
- 4 diamonds
- 1 turnout

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**Streetcar Track & Tie-In Installation**

- Major Crossover in Downtown Tempe

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Tempe Streetcar Construction

Streetcar Vehicle Status
South Central/Downtown Hub

South Central Extension Light Rail/ Downtown Hub

5.5 MILES
9 STATIONS
18 ARTISTS

LEGEND
- Valley Metro Rail/Station Platform
- South Central Extension/Downtown Hub/ Station Platform
- Capital A-10 West Extension
- Park-and-Ride
- Traction Power Substation (TPSS)
- Signal Building
Downtown Hub

Downtown Phoenix
Central Avenue near Washington Street
Downtown Stations

Construction Elements

1. Utility Relocation and Street Work
2. Track Installation
3. Stations, Art and Landscaping
4. Overhead Power Systems and Testing
Downtown Construction Phasing (Roadway / Civil Work)

Downtown Construction Phasing (Trackwork)
Construction Update

Utility Relocation and Street Work
Jack and Bore

Utility Work in Downtown Phoenix
Rail Operations & Maintenance Center Expansion
Northwest Extension Phase II

- 1.6 mile extension
- 1 park-and-ride
- 1 transit center
- 3 stations
- 3 bridges

Metrocenter Station
Metrocenter Station

Metrocenter – Facing South
Metrocenter – Facing Northeast

Community Relations during Construction
Community Participation

- Engage the Community
- Identify Stakeholder Expectations, Issues, Concerns
- Support the Community During Construction
- Identify and Leverage Construction-related Opportunities

Tempe Streetcar

- Community Advisory Board
- Weekly Construction Notices
- Safety Education
- Business Assistance
  - Shop On Tempe
  - Asset Assistance program
  - Business seminars, mentoring and technical assistance
- Streetcar Syncs
- Wayfinding
- Hard Hat Thursdays
South Central Extension / Downtown Hub

- Weekly Construction Notices
- Community Office
- Construct VM
- “Meet & Eat”
- Downtown Signage
- Career and Workforce Development
- Business Assistance Program
- Construction Advisory Board
- School Safety Campaign

Northwest Extension Phase II

- Public Meeting (early summer)
  - Final design plans
  - Construction phasing and schedule information
  - Latest art concepts
- Community Events
- Stakeholder Meetings
- Canvassing
- Business Assistance Program
- Career and Workforce Development
Art Program

TSC: Art Concepts
Rio Salado
TSC: Art Concepts

Gammage

TSC: Art Concepts

Downtown
Most artists are local or regional.
Most artists are local or regional.
Most artists are local or regional.

NWEII: Art Concepts
NWEII: Art Concepts

NWEII: Art Concepts
NWEII: Art Concepts

Public Art Maintenance
Public Art Maintenance

Rail System Improvements
Job Order Contracting (JOC)

Valley Metro Job Orders by Value

- 43%: $0-$50k
- 25%: $50-$100K
- 18%: $100k-$1m
- 14%: $1M-$2M

Projects <$2.5M

Ongoing Improvements to the Light Rail System

LEGEND
- Ongoing improvements to the Light Rail System
HVAC Improvements

15 TPSS & 3 Signal Buildings

Bridge Expansion Joints

Price-101/Apache Blvd
Bus System Support Facilities
Peoria Park-and-Ride – Now Open!

Peoria Park and Ride
@ Old Town
Buckeye Park-and-Ride Expansion

Avondale Bus Stop Improvements
Mesa Bus Operations and Maintenance (MBOM)
Mesa Bus Operations and Maintenance (MBOM)
High Capacity Transit Planning
Capitol / I-10 Extension
2012 Approved Route

Phase I: Light rail to the State Capitol

Washington Street Looking West Towards 11th Avenue
East Valley Planning Projects

- Fiesta District Alternatives Analysis
- Tempe/Mesa Streetcar Feasibility Study
- Arizona Avenue Alternatives Analysis

Planning for Future Improvements

- Travel Time Improvement Study
  - Consider options for faster travel times on light rail
- Capital Renewal and Replacement
  - Tools for considering life cycle and replacement needs for vehicles and infrastructure
  - Maintain state of good repair
  - Identify potential operational improvements
Transit Service Planning

Valley Metro Route Operator Map
Transit Service Planning

Activities vary according to individual city needs and goals
• Analyze existing and future conditions in the service area
• Conduct transit needs surveys
• Conduct public involvement
• Develop range of local and regional transit service options for consideration
• Develop funding strategies
• Develop final plan

Elements of a Local Area Service Plan/Study
Annual Service Planning Cycle

Recurring Processes
- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEP
- OCT
- NOV
- DEC

Short Range Transit Program
- Develop Annual SRTP
- Board Approval Process

Semi-Annual Service Changes
- Board approval and implementation work for April changes
- New service in effect Oct process begins Public participation
- Board approval and implementation work for Oct changes
- New Service in effect April process begins Public participation

April 2020 Service Changes
Service Changes Identified in the SRTP

Valley Metro Regional Projects

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- Capital Planning
- Service Planning
Questions?

THANK YOU!