#### SUBSTITUTE

#### RESOLUTION No. 36071

Approve the City Engineer's process for evaluating a Suspended Cable Transportation System linking Marquam Hill and the North Macadam District and direct the City Engineer to initiate the Project Assessment process for the Suspended Cable Transportation System (Resolution)

- WHEREAS. the Marquam Hill Plan has studied transportation alternatives for connecting the Marquam Hill campus to the North Macadam District, including a Suspended Cable Transportation System; and
- the City Council desires additional information on the various alignments and systems that WHEREAS. could be used if a Suspended Cable Transportation System is approved; and
- WHEREAS, the Planning Commission, in their consideration of the Marquam Hill Plan, has asked for additional technical information on a Suspended Cable Transportation System and has provided City Council with advice on a process for evaluating a Suspended Cable Transportation System, including consideration of a "no build" (shuttle bus) alternative; and
- the City Council has scheduled a public hearing on the Marquam Hill Plan on June 26, WHEREAS, 2002, and will consider adoption of the plan soon thereafter; and
- the Portland Office of Transportation has been granted authority through the City Charter WHEREAS, and Code to plan and regulate activities and transportation improvements in the public right-of-way; and
- incorporating Planning Commission advice, the City Engineer has developed a process for WHEREAS. generating and evaluating alternative alignments and systems for a Suspended Cable Transportation System, including the consideration of a shuttle bus alternative, as described in Exhibit A; and
- the City Engineer's process will generate information that will assist City Council in its WHEREAS. consideration of the Marguam Hill Plan; and
- Portland Aerial Transportation, Inc. has come forward to act as the Project Sponsor for the WHEREAS, Suspended Cable Transportation System and has asked the City to initiate the City Engineer's process.
- NOW THEREFORE, BE IT RESOLVED, that City Council approves the City Engineer's process, as described in Exhibit A, as the preferred approach for evaluating a Suspended Cable Transportation System; and
- BE IT FURTHER RESOLVED, that the City Council directs the City Engineer to initiate the Project Assessment Phase of the Suspended Cable Transportation System process as described in Exhibit A, and to return to City Council with a draft report by June 26, 2002; and
- BE IT FURTHER RESOLVED, that the City Engineer will recover costs for this alternatives analysis from the Project Sponsor, Portland Aerial Transportation Inc.

MAY 2 3 2002 Adopted by the Council,

Mayor Vera Katz Commissioner Charlie Hales Matt Brown:slg May 23, 2002 SCTS Process Resolution 051502 GARY BLACKMER

AUDITOR OF THE CITY OF PORTAND

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Charlie Hales, Commissioner 1120 S.W. 5th Avenue, Suite 800 Portland, Oregon 97204-1914 (503) 823-5185 FAX (503) 823-7576 or 823-7371 TDD 823-6868

Victor F. Rhodes Director

Eileen Argentina Information Management

Jeanne Nyquist Maintenance

Richard Steinbrugge Finance

Laurel Wentworth Planning

Toby Widmer \*stem \*agement

Brant Williams Engineering & Development

#### Exhibit A

#### **DRAFT - REVISED**

Work Plan
Suspended Cable Transportation System
Project Assessment Phase
Portland Office of Transportation
May 23, 2002

#### Introduction and Background

A proposal to link Oregon Health & Science University's (OHSU) Marquam Hill campus with an expansion site in North Macadam via a suspended cable transportation system has been examined extensively as part of the Marquam Hill Plan project, a long range planning project being led by the Bureau of Planning. The Portland Office of Transportation (PDOT) believes this idea can contribute to the network of transportation options available to Marquam Hill and potentially to the North Macadam District. However, it is clear that additional work is needed to fully examine the opportunities and impacts associated with a system of this nature.

On May 14, 2002, the Portland Planning Commission forwarded recommendations on the Marquam Hill Plan to City Council for a Council hearing on June 26, 2002. The recommendations do not include the policies or objectives originally proposed by the Bureau of Planning for the implementation of a Suspended Cable Transportation System (SCTS) linking Marquam Hill with North Macadam.

Part of Planning Commission's advice to City Council included a proposed process for evaluating a SCTS. The process built upon an earlier version proposed by the City Engineer, which suggested evaluating alternative systems and alignments linking Marquam Hill to North Macadam. The Planning Commission also expanded on a set of evaluation factors generated by the City Engineer to assist in the determining which alternative, if any, is preferred.

Suspended cable transportation systems include two different technologies – aerial trams and gondolas. These systems are unique transportation conveyances in many key areas. Both systems run on electric power, which is locally non-polluting. Both systems have significant capacity potential and good passenger acceptability. These systems are also unique in that they can traverse both private property and public right-of-way. Portland has a long history of seeking and implementing transportation systems that increase the public's options and encourage modes other than single occupant vehicles.

At this point, it is unclear who will fund, own and operate a SCTS. Most likely, funding will come from a variety of sources, both public and private. However, it should be noted that PDOT is pursuing this work plan in order to move the SCTS proposal along to a greater level of detail to aid in decision making, and there is no work program at this point that is exploring the funding of construction or operation of such a system.

It should be noted that this work plan does not represent a city-wide approach to the implementation of a SCTS. Rather, this is seen as a one-time project development and design process aimed at implementing a connection between Marquam Hill and North Macadam.

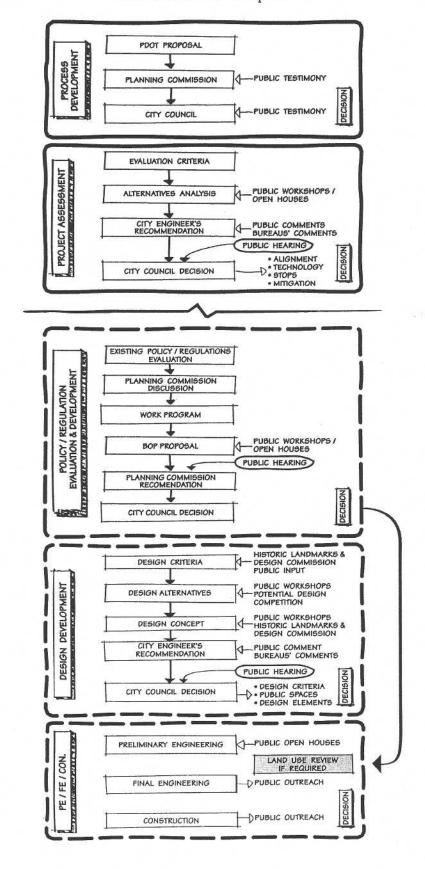
A critical component of this project, as with all of PDOT's transportation projects, is a meaningful public process. Throughout the work plan, opportunities are identified for public review, comment, and critique of the proposal. Our intent is to deliver a project that is better than it otherwise would have been had it not been for the public voice present in the process.

The diagram on the following page provides a conceptual overview of the City Engineer's proposed process. This process incorporates Planning Commission advice, expanding the original proposal by adding a Process Development piece at the front end as well as a Policy Evaluation and Development Phase. One major difference between the Planning Commission's advice and the City Engineer's proposed process is the timing of the Policy Evaluation and Development phase – the PDOT process recommends that this work occur after the Project Assessment phase to better evaluate a more specific SCTS proposal.

In addition, the Planning Commission forwarded advice on the City Engineer's Evaluation Factors, which are outlined on the page following the diagram. For the most part, the City Engineer has incorporated that advice, with the following minor exceptions. First, because no funding sources have been identified for the project, it is premature to evaluate any of the alternatives based on the source of funds, and the information is likely to be nearly equal across the alternatives as well. Second, and in a similar vein, the System Management and Development factors will be difficult, if not impossible, to use in evaluating the alternatives because the information is not developed at this point.

In summary, the proposed City Engineer's process for considering a SCTS provides an opportunity to evaluate a range of SCTS alternatives in a public forum, and will generate information for City Council that will be useful in their decision making process on the Marquam Hill Plan.

## City Engineer's Proposed Process Suspended Cable Transportation System Portland Office of Transportation



# Evaluation Factors Suspended Cable Transportation System Project Assessment Phase

Portland Office of Transportation

#### A. Neighborhood impacts

- Visual impacts (views to and from system)
- Sound impacts
- Property Impacts
- Historic Resources
- Natural Resources
- Personal Privacy
- Property Value
- Parking
- Terwilliger Parkway Character and Views

#### B. Transportation access and efficiency

- Effect on Transit Choice
- Capacity
- Energy efficiency
- Accessibility (ADA)
- Connections to Existing Transit Facilities
- Connections to Future Transit Facilities
- Parking

#### C. Feasibility

- Land availability
- Compatibility with development proposals
- Timely Implementation

#### D. Implementation Costs

Cost to Construct

#### E. Maintenance and operations considerations

- Cost to operate
- Reliability
- Operation in Weather (wind, rain, etc.)

#### F. Public safety

- Disaster Relief/Operations
- Security
- Fire along/under alignment
- In cabins and under system

## Work Plan Suspended Cable Transportation System Project Assessment Phase

#### 1.0 Project Assessment

The primary intent of this phase of work is to further define the alignment, technology, stops, and landing areas for the SCTS. While the Bureau of Planning's proposal for the Marquam Hill Plan recommended that a SCTS be constructed linking Marquam Hill to North Macadam, it was silent on the specifics of how or where that linkage should be made. To that end, there are two primary technologies that can be utilized (aerial tram and a gondola) and a number of different alignments that should be considered.

This phase will study the alternative technologies and alignments and allow for opportunities for the public review and comment. Also, the alternatives will be evaluated across a number of different evaluation factors, including but not limited to neighborhood impacts, transportation access and efficiency, energy efficiency, visual impacts, feasibility, reliability, cost, maintenance and operations considerations, land availability, and compatibility with development proposals. Mitigation strategies, if any, will also be identified as part of this evaluation process.

- 1.1 Transportation Modeling PDOT and Metro staff will perform a transportation demand analysis for a mid-point stop on a SCTS. The primary goal of this task is to determine the amount of demand that may exist, both currently and in the future, for a mid-line stop serving the CTLH neighborhood and Barbur transit corridor.
- 1.2 Alternatives Development 3-5 alternatives will be developed, using both the Tram and Gondola technologies, along a variety of alignments linking Marquam Hill and North Macadam. Also, a surface shuttle bus system will be analyzed and compared along with the aerial systems. The alternatives will be developed to a point where reasonable knowledge is attained as to the structures required to implement the alternative, the height of passenger cars above existing features (trees, buildings, utilities, etc.), the relative costs of the alternatives, the physical impact of the alternatives, and other information required to complete Task 1.3, Alternatives Evaluation.
- 1.3 Alternatives Evaluation The alternatives developed in Task 1.2 will be evaluated by the City Engineer across the SCTS Evaluation Factors, listed in the preceding exhibit.
- 1.4 City Engineer's Report The City Engineer will issue a report detailing the findings of the alternatives process and make the report available for public review at least three weeks prior to the report being considered by City Council. The report will contain a summary of key issues raised during the public process (see 1.5, Public Process) as well as a an analysis of the options considered during the project development process.

Most critically, the report will make a recommendation, if any, on the best alignment and technology for implementing an SCTS. If appropriate, next steps will also be outlined in order to carry the recommended proposal through the next phase of design development.

- 1.5 Public Process The public process for the Project Development phase is focused on the comparison of various aerial transit system technologies and alignments. A "no-build" (shuttle bus) alternative will be included as part of the report. The primary goal of this public process is to share information on the benefits and liabilities of the alignment and technology alternatives for a SCTS, and to allow public feedback on a preferred approach. Some of the techniques that are anticipated to be utilized include:
  - 1.5.1 Stakeholder Interviews Various stakeholders, including project proponents, opponents, and neighborhood representatives, will be interviewed to gather information on project ideas, issues, and impacts. This information will be used to help generate alternatives as well as assist in the evaluation of the various alternatives.
  - 1.5.2 Public Workshop(s) 1-2 public workshops will be held to present alternatives for a SCTS and to gather feedback on the various criteria for the project. A draft analysis of the alternatives will be available at these workshops to give participants a starting point for their own discussion of the alternatives.
  - 1.5.3 City Engineer's Report Review Period Following the workshops, the City Engineer will document the feedback received and consider how the feedback will be incorporated into a draft report to Council. The report will include the City Engineer's recommendation on the recommended approach for linking Marquam Hill and North Macadam. The report will be made available to the public at least three weeks before the recommendation is presented to City Council for their action, and will be mailed automatically to properties along the affected alignments, to the CTAG for the Marquam Hill Plan, and to public process participants. Comments can be made in writing to the Council Clerk or can be submitted to City Council at the hearing on the matter.
  - 1.5.4 City Council Hearing The Portland City Council will hold a hearing on the report as part of its consideration of the City Engineer's recommendation. Interested parties will be able to submit comments in writing and/or testify on the matter before Council.
- 1.6 City Council Action The Portland City Council will take action on the City Engineer's recommendation in the form of a Resolution accepting the report and directing PDOT to undertake the next steps, if any, of the planning process. Council will have three courses of action available at that time accepting the City Engineer's report and recommendations; rejecting the report and recommendations; and directing the City Engineer to modify the report and recommendations. If Council accepts the report and recommendations, that decision will set the groundwork for the alignment and technology to be used for the SCTS as it moves into the next phase of development.

## PORTLAND OFFICE OF TRANSPORTATION COUNCIL CALENDAR ITEM

	Council Calendar No
Submitted for Council Consideration on:	Thursday, May 23, 2002 - Regular Agenda
	omitted to Council will accomplish two primary goals preferred process for considering a Suspended Cable Il to North Macadam.
	PDOT and the City Engineer to initiate the process at process as part of their deliberations on the Marquan
their May 14, 2002 session. Part of their fit Transportation System (SCTS) from the Ma Council on a process for further evaluation their advice builds upon the work previously process, but differs significantly in approx transportation project. The City Engineer wi	ion completed their work on the Marquam Hill Plan and decision included segregating the Suspended Cable rquam Hill Plan document and providing advice to City of a SCTS. The process that they have forwarded as y submitted by PDOT as part of the Marquam Hill Plan aching the SCTS as a land use action rather than all be incorporating some of the Planning Commission's rocess will be presented to City Council as PDOT's e SCTS evaluation process.
will be contacting Marquam Hill Plan stakel	ry quickly after the Planning Commission's action. We nolders to notify them of the resolution and the date and that this item will receive substantial testimony and that the present to testify as well.
Portland Aerial Transportation, Inc. (PATI) PATI was formed on May 9, 2002 and has a	) is identified as the project sponsor in the resolution greed to fund the evaluation process.
against proceeding with this process on such high level of criticism for taking this matte	I receive a substantial amount of testimony both for anoth an accelerated time line. Also, there will likely be a rup so soon after the Planning Commission has taken noted that both opponents and proponents of the SCTS hich this process will provide.
RECOMMENDATION: Pass Resolution	
_ Can be delayed _ week(s), if necessary	Fiscal Review by
Should be filed this week.	X_No impact at fund level
x Must be filed this week.	Impact on Fund
Contact Person Matt Brown, Project Mana	gerwill attend Council session.

Phone No. 503-823-7027

### RESOLUTION No.

Approve the City Engineer's process for evaluating a Suspended Cable Transportation System linking Marquam Hill and the North Macadam District and direct the City Engineer to initiate the Project Assessment process for the Suspended Cable Transportation System (Resolution)

- WHEREAS, the Marquam Hill Plan has studied transportation alternatives for connecting the Marquam Hill campus to the North Macadam District, including a Suspended Cable Transportation System; and
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- WHEREAS, the City Council has scheduled a public hearing on the Marquam Hill Plan on June 26, 2002, and will consider adoption of the plan soon thereafter; and
- WHEREAS, the Portland Office of Transportation has been granted authority through the City Charter and Code to plan and regulate activities and transportation improvements in the public right-of-way; and
- WHEREAS, incorporating Planning Commission advice, the City Engineer has developed a process for generating and evaluating alternative alignments and systems for a Suspended Cable Transportation System, including the consideration of a shuttle bus alternative, as described in Exhibit A; and
- WHEREAS, the City Engineer's process will generate information that will assist City Council in its consideration of the Marquam Hill Plan; and
- WHEREAS, Portland Aerial Transportation, Inc. has come forward to act as the Project Sponsor for the Suspended Cable Transportation System and has asked the City to initiate the City Engineer's process.
- NOW THEREFORE, BE IT RESOLVED, that City Council approves the City Engineer's process, as described in Exhibit A, as the preferred approach for evaluating a Suspended Cable Transportation System; and
- BE IT FURTHER RESOLVED, that the City Council directs the City Engineer to initiate the Project Assessment Phase of the Suspended Cable Transportation System process as described in Exhibit A, and to return to City Council with a draft report by June 26, 2002; and
- BE IT FURTHER RESOLVED, that the City Engineer will recover costs for this alternatives analysis from the Project Sponsor, Portland Aerial Transportation Inc.

Adopted by the Council,

GARY BLACKMER AUDITOR OF THE CITY OF PORTLAND BY

Mayor Vera Katz Commissioner Charlie Hales Matt Brown:slg May 23, 2002 SCTS Process Resolution 051502

### Agenda No.

### **RESOLUTION NO.**

#### Title

Approve the City Engineer's process for evaluating a Suspended Cable Transportation System linking Marquam Hill and the North Macadam District and direct the City Engineer to initiate the Project Assessment process for the Suspended Cable Transportation System (Resolution)

INTRODUCED BY	DATE FILED:
Mayor Vera Katz Commissioner Charlie Hales	Gary Blackmer Auditor of the City of Portland
NOTED BY COMMISSIONER	nadio on to one
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Finance and Administration	By:
Safety	is a summon the opening a matter of applications of the second se
Utilities	For Meeting of: Thursday, MAY 23, 2002
Works	ACTION TAKEN:
BUREAU APPROVAL	
Bureau: Transportation Engineering & Development	
Prepared by Date May 16, 2002	
Budget Impact Review: Completed X Not Required	
Included PPD: YesX_ No	
Filename: SCTS Process Resolution 051502.doc	
Bureau Head: Brant Williams, P. E.	

AGENDA		FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:		
				YEAS	NAYS
Consent	Regular X				
NOTED BY		Francesconi	Francesconi		
City Attorney		Hales	Hales		
City Auditor		Saltzman	Saltzman		
City Engineer:	Brant Williams	Sten	Sten		
Approved by:		Katz	Katz		



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Toby Widmer System nagement

Williams Engineering & Development

#### Exhibit A

#### **DRAFT - REVISED**

Work Plan
Suspended Cable Transportation System
Project Assessment Phase
Portland Office of Transportation
May 23, 2002

#### Introduction and Background

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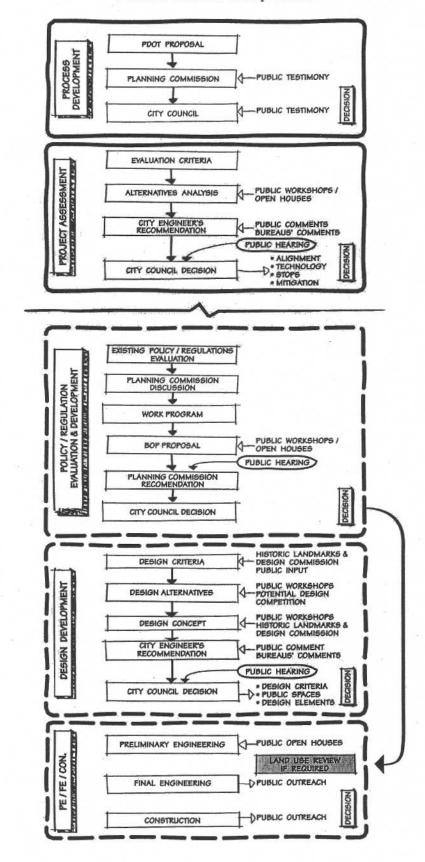
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## City Engineer's Proposed Process Suspended Cable Transportation System Portland Office of Transportation



#### **Evaluation Factors**

## Suspended Cable Transportation System

### **Project Assessment Phase**

#### Portland Office of Transportation

#### A. Neighborhood impacts

- Visual impacts (views to and from system)
- Sound impacts
- Property Impacts
- Historic Resources
- Natural Resources
- Personal Privacy
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- Parking
- Terwilliger Parkway Character and Views

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- Operation in Weather (wind, rain, etc.)

#### F. Public safety

- Disaster Relief/Operations
- Security
- Fire along/under alignment
- In cabins and under system

## Work Plan Suspended Cable Transportation System Project Assessment Phase

#### 1.0 Project Assessment

The primary intent of this phase of work is to further define the alignment, technology, stops, and landing areas for the SCTS. While the Bureau of Planning's proposal for the Marquam Hill Plan recommended that a SCTS be constructed linking Marquam Hill to North Macadam, it was silent on the specifics of how or where that linkage should be made. To that end, there are two primary technologies that can be utilized (aerial tram and a gondola) and a number of different alignments that should be considered.

This phase will study the alternative technologies and alignments and allow for opportunities for the public review and comment. Also, the alternatives will be evaluated across a number of different evaluation factors, including but not limited to neighborhood impacts, transportation access and efficiency, energy efficiency, visual impacts, feasibility, reliability, cost, maintenance and operations considerations, land availability, and compatibility with development proposals. Mitigation strategies, if any, will also be identified as part of this evaluation process.

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- 1.3 Alternatives Evaluation The alternatives developed in Task 1.2 will be evaluated by the City Engineer across the SCTS Evaluation Factors, listed in the preceding exhibit.
- 1.4 City Engineer's Report The City Engineer will issue a report detailing the findings of the alternatives process and make the report available for public review at least three weeks prior to the report being considered by City Council. The report will contain a summary of key issues raised during the public process (see 1.5, Public Process) as well as a an analysis of the options considered during the project development process.

Most critically, the report will make a recommendation, if any, on the best alignment and technology for implementing an SCTS. If appropriate, next steps will also be outlined in order to carry the recommended proposal through the next phase of design development.

- 1.5 **Public Process** The public process for the Project Development phase is focused on the comparison of various aerial transit system technologies and alignments. A "no-build" (shuttle bus) alternative will be included as part of the report. The primary goal of this public process is to share information on the benefits and liabilities of the alignment and technology alternatives for a SCTS, and to allow public feedback on a preferred approach. Some of the techniques that are anticipated to be utilized include:
  - 1.5.1 Stakeholder Interviews Various stakeholders, including project proponents, opponents, and neighborhood representatives, will be interviewed to gather information on project ideas, issues, and impacts. This information will be used to help generate alternatives as well as assist in the evaluation of the various alternatives.
  - 1.5.2 Public Workshop(s) 1-2 public workshops will be held to present alternatives for a SCTS and to gather feedback on the various criteria for the project. A draft analysis of the alternatives will be available at these workshops to give participants a starting point for their own discussion of the alternatives.
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- 1.6 City Council Action The Portland City Council will take action on the City Engineer's recommendation in the form of a Resolution accepting the report and directing PDOT to undertake the next steps, if any, of the planning process. Council will have three courses of action available at that time accepting the City Engineer's report and recommendations; rejecting the report and recommendations; and directing the City Engineer to modify the report and recommendations. If Council accepts the report and recommendations, that decision will set the groundwork for the alignment and technology to be used for the SCTS as it moves into the next phase of development.

#### PORTLAND OFFICE COUNCIL C.

OF TRANSPORTATION	
ALENDAR ITEM	
Council Calendar No.	

Submitted for Council Consideration on: Thursday, May 23, 2002 - Regular Agenda

**DESCRIPTION**: The resolution being submitted to Council will accomplish two primary goals. First, Council is being asked to choose a preferred process for considering a Suspended Cable Transportation System linking Marquam Hill to North Macadam.

Second, Council is being asked to direct PDOT and the City Engineer to initiate the process immediately and bring back the results of that process as part of their deliberations on the Marquam Hill Plan in late June.

BACKGROUND: The Planning Commission completed their work on the Marquam Hill Plan at their May 14, 2002 session. Part of their final decision included segregating the Suspended Cable Transportation System (SCTS) from the Marquam Hill Plan document and providing advice to City Council on a process for further evaluation of a SCTS. The process that they have forwarded as their advice builds upon the work previously submitted by PDOT as part of the Marquam Hill Plan process, but differs significantly in approaching the SCTS as a land use action rather than a transportation project. The City Engineer will be incorporating some of the Planning Commission's advice into a revised process, and this process will be presented to City Council as PDOT's recommendation on how to proceed with the SCTS evaluation process.

ISSUES: This resolution is being filed very quickly after the Planning Commission's action. We will be contacting Marquam Hill Plan stakeholders to notify them of the resolution and the date and time it is being considered. It is very likely that this item will receive substantial testimony and that members of the Planning Commission will be present to testify as well.

Portland Aerial Transportation, Inc. (PATI) is identified as the project sponsor in the resolution. PATI was formed on May 9, 2002 and has agreed to fund the evaluation process.

#### POTENTIAL

PROBLEMS: It is likely that Council will receive a substantial amount of testimony both for and against proceeding with this process on such an accelerated time line. Also, there will likely be a high level of criticism for taking this matter up so soon after the Planning Commission has taken action. Given these factors, it should also be noted that both opponents and proponents of the SCTS have asked for more detailed information, which this process will provide.

#### **RECOMMENDATION:** Pass Resolution

Can be delayed week(s), if necessary	Fiscal Review by
Should be filed this week.	X_No impact at fund level
x Must be filed this week.	Impact on Fund
Contact Person Matt Brown, Project Manager	will attend Council session.
Phone No. 503-823-7027	

### RESOLUTION No.

Approve the City Engineer's process for evaluating a Suspended Cable Transportation System linking Marquam Hill and the North Macadam District and direct the City Engineer to initiate the Project Assessment process for the Suspended Cable Transportation System (Resolution)

- WHEREAS, the Marquam Hill Plan has studied transportation alternatives for connecting the Marquam Hill campus to the North Macadam District, including a Suspended Cable Transportation System; and
- WHEREAS, the City Council desires additional information on the various alignments and systems that could be used if a Suspended Cable Transportation System is approved; and
- WHEREAS, the Planning Commission, in their consideration of the Marquam Hill Plan, has asked for additional technical information on a Suspended Cable Transportation System and has provided City Council with advice on a process for evaluating a Suspended Cable Transportation System; and
- WHEREAS, the City Council has scheduled a public hearing on the Marquam Hill Plan on June 26, 2002, and will consider adoption of the plan soon thereafter; and
- WHEREAS, the Portland Office of Transportation has been granted authority through the City Charter and Code to plan and regulate activities and transportation improvements in the public right-of-way; and
- WHEREAS, incorporating Planning Commission advice, the City Engineer has developed a process for generating and evaluating alternative alignments and systems for a Suspended Cable Transportation System, as described in Exhibit A; and
- WHEREAS, the City Engineer's process will generate information that will assist City Council in its consideration of the Marquam Hill Plan; and
- WHEREAS, Portland Aerial Transportation, Inc. has come forward to act as the Project Sponsor for the Suspended Cable Transportation System and has asked the City to initiate the City Engineer's process.
- NOW THEREFORE, BE IT RESOLVED, that City Council approves the City Engineer's process, as described in Exhibit A, as the preferred approach for evaluating the Suspended Cable Transportation System; and
- BE IT FURTHER RESOLVED, that the City Council directs the City Engineer to initiate the Project Assessment Phase of the Suspended Cable Transportation System process as described in Exhibit A, and to return to City Council with a draft set of recommendations by June 26, 2002; and
- BE IT FURTHER RESOLVED, that the City Engineer will recover costs for this alternatives analysis from the Project Sponsor, Portland Aerial Transportation Inc.

Adopted by the Council,

GARY BLACKMER
AUDITOR OF THE CITY OF PORTLAND
BY

Mayor Vera Katz Commissioner Charlie Hales Matt Brown:slg May 16, 2002 SCTS Process Resolution 051502

### Agenda No.

### **RESOLUTION NO.**

#### Title

Approve the City Engineer's process for evaluating a Suspended Cable Transportation System linking Marquam Hill and the North Macadam District and direct the City Engineer to initiate the Project Assessment process for the Suspended Cable Transportation System (Resolution)

INTRODUCED BY	DATE FILED:
Mayor Vera Katz Commissioner Charlie Hales	Gary Blackmer Auditor of the City of Portland
NOTED BY COMMISSIONER	
Affairs	
Finance and Administration \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ву:
Safety	Deputy
Utilities	For Meeting of: Thursday, MAY 23, 2002
Works	ACTION TAKEN:
BUREAU APPROVAL	
Bureau: Transportation Engineering & Development	
Prepared by Matt Brown:slg May 16, 2002	
Budget Impact Review:CompletedXNot Required	
Included PPD: YesX_ No	
Filename: SCTS Process Resolution 051502.doc	
Bureau Head: Brant Williams, P. E.	

AGENDA		FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:		
				YEAS	NAYS
Consent	Regular X				
	NOTED BY	Francesconi	Francesconi		
City Attorney	Open Comments	Hales	Hales		
City Auditor		Saltzman	Saltzman		
City Engineer:	Brant Williams	Sten	Sten	-	
Approved by:		Katz	Katz		



Charlie Hales, Commissioner 1120 S.W. 5th Avenue, Suite 800 Portland, Oregon 97204-1914 (503) 823-5185 FAX (503) 823-7576 or 823-7371 TDD 823-6868

Victor F. Rhodes Director

Eileen Argentina Information Management

Jeanne Nyquist Maintenance

Richard Steinbrugge Finance

Laurel Wentworth Planning

Toby Widmer System

Brant Williams Engineering & Development Exhibit A

#### DRAFT

Work Plan
Suspended Cable Transportation System
Project Assessment Phase
Portland Office of Transportation
May 16, 2002

#### Introduction and Background

A proposal to link Oregon Health & Science University's (OHSU) Marquam Hill campus with an expansion site in North Macadam via a suspended cable transportation system has been examined extensively as part of the Marquam Hill Plan project, a long range planning project being led by the Bureau of Planning. The Portland Office of Transportation (PDOT) believes this idea can contribute to the network of transportation options available to Marquam Hill and potentially to the North Macadam District. However, it is clear that additional work is needed to fully examine the opportunities and impacts associated with a system of this nature.

On May 14, 2002, the Portland Planning Commission forwarded recommendations on the Marquam Hill Plan to City Council for a Council hearing on June 26, 2002. The recommendations do not include the policies or objectives originally proposed by the Bureau of Planning for the implementation of a Suspended Cable Transportation System (SCTS) linking Marquam Hill with North Macadam.

Part of Planning Commission's advice to City Council included a proposed process for evaluating a SCTS. The process built upon an earlier version proposed by the City Engineer, which suggested evaluating alternative systems and alignments linking Marquam Hill to North Macadam. The Planning Commission also expanded on a set of evaluation factors generated by the City Engineer to assist in the determining which alternative, if any, is preferred.

Suspended cable transportation systems include two different technologies – aerial trams and gondolas. These systems are unique transportation conveyances in many key areas. Both systems run on electric power, which is locally non-polluting. Both systems have significant capacity potential and good passenger acceptability. These systems are also unique in that they can traverse both private property and public right-of-way. Portland has a long history of seeking and implementing transportation systems that increase the public's options and encourage modes other than single occupant vehicles.

At this point, it is unclear who will fund, own and operate the SCTS. Most likely, funding will come from a variety of sources, both public and private. However, it should be noted that PDOT is pursuing this work plan in order to move the SCTS proposal along to a greater level of detail to aid in decision making, and there is no work program at this point that is exploring the funding of construction or operation of such a system.

It should be noted that this work plan does not represent a city-wide approach to the implementation of a SCTS. Rather, this is seen as a one-time project development and design process aimed at implementing a connection between Marquam Hill and North Macadam.

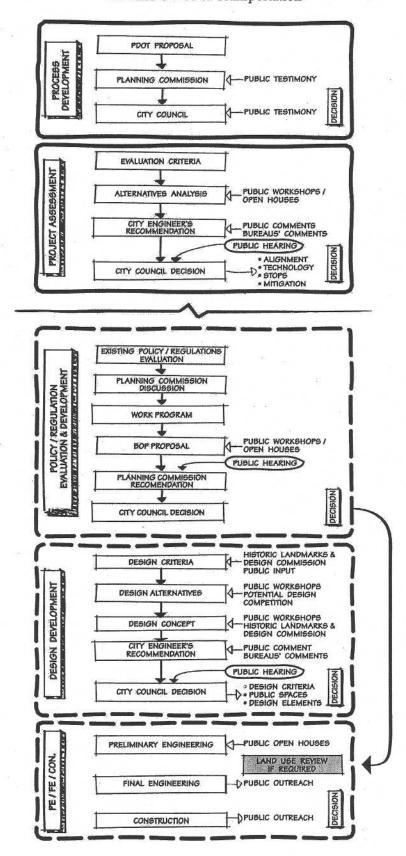
A critical component of this project, as with all of PDOT's transportation projects, is a meaningful public process. Throughout the work plan, opportunities are identified for public review, comment, and critique of the proposal. Our intent is to deliver a project that is better than it otherwise would have been had it not been for the public voice present in the process.

The diagram on the following page provides a conceptual overview of the City Engineer's proposed process. This process incorporates Planning Commission advice, expanding the original proposal by adding a Process Development piece at the front end as well as a Policy Evaluation and Development Phase. One major difference between the Planning Commission's advice and the City Engineer's proposed process is the timing of the Policy Evaluation and Development phase – the PDOT process recommends that this work occur after the Project Assessment phase to better evaluate a more specific SCTS proposal.

In addition, the Planning Commission forwarded advice on the City Engineer's Evaluation Factors, which are outlined on the page following the diagram. For the most part, the City Engineer has incorporated that advice, with the following minor exceptions. First, because no funding sources have been identified for the project, it is premature to evaluate any of the alternatives based on the source of funds, and the information is likely to be nearly equal across the alternatives as well. Second, and in a similar vein, the System Management and Development factors will be difficult, if not impossible, to use in evaluating the alternatives because the information is not developed at this point.

In summary, the proposed City Engineer's process for considering a SCTS provides an opportunity to evaluate a range of SCTS alternatives in a public forum, and will generate information for City Council that will be useful in their decision making process on the Marquam Hill Plan.

## City Engineer's Proposed Process Suspended Cable Transportation System Portland Office of Transportation



## Evaluation Factors Suspended Cable Transportation System Project Assessment Phase

### Portland Office of Transportation

#### A. Neighborhood impacts

- Visual impacts (views to and from system)
- Sound impacts
- Property Impacts
- Historic Resources
- Natural Resources
- Personal Privacy
- Property Value
- Parking
- Terwilliger Parkway Character and Views

#### B. Transportation access and efficiency

- Effect on Transit Choice
- Capacity
- Energy efficiency
- Accessibility (ADA)
- Connections to Existing Transit Facilities
- Connections to Future Transit Facilities
- Parking

#### C. Feasibility

- Land availability
- Compatibility with development proposals
- Timely Implementation

#### D. Implementation Costs

Cost to Construct

#### E. Maintenance and operations considerations

- Cost to operate
- Reliability
- Operation in Weather (wind, rain, etc.)

#### F. Public safety

- Disaster Relief/Operations
- Security
- Fire along/under alignment
- In cabins and under system

## Work Plan Suspended Cable Transportation System Project Assessment Phase

#### 1.0 Project Assessment

The primary intent of this phase of work is to further define the alignment, technology, stops, and landing areas for the SCTS. While the Bureau of Planning's proposal for the Marquam Hill Plan recommended that a SCTS be constructed linking Marquam Hill to North Macadam, it was silent on the specifics of how or where that linkage should be made. To that end, there are two primary technologies that can be utilized (aerial tram and a gondola) and a number of different alignments that should be considered.

This phase will study the alternative technologies and alignments and allow for opportunities for the public review and comment. Also, the alternatives will be evaluated across a number of different evaluation factors, including but not limited to neighborhood impacts, transportation access and efficiency, energy efficiency, visual impacts, feasibility, reliability, cost, maintenance and operations considerations, land availability, and compatibility with development proposals. Mitigation strategies, if any, will also be identified as part of this evaluation process.

- 1.1 Transportation Modeling PDOT and Metro staff will perform a transportation demand analysis for a mid-point stop on a SCTS. The primary goal of this task is to determine the amount of demand that may exist, both currently and in the future, for a mid-line stop serving the CTLH neighborhood and Barbur transit corridor.
- 1.2 Alternatives Development 3-5 alternatives will be developed, using both the Tram and Gondola technologies, along a variety of alignments linking Marquam Hill and North Macadam. The alternatives will be developed to a point where reasonable knowledge is attained as to the structures required to implement the alternative, the height of passenger cars above existing features (trees, buildings, utilities, etc.), the relative costs of the alternatives, the physical impact of the alternatives, and other information required to complete Task 1.3, Alternatives Evaluation.
- 1.3 Alternatives Evaluation The alternatives developed in Task 1.2 will be evaluated by the City Engineer across the SCTS Evaluation Factors, listed in the preceding exhibit.
- 1.4 City Engineer's Report The City Engineer will issue a report detailing the findings of the alternatives process and make the report available for public review at least three weeks prior to the report being considered by City Council. The report will contain a summary of key issues raised during the public process (see 1.5, Public Process) as well as a an analysis of the options considered during the project development process.

Most critically, the report will make a recommendation, if any, on the best alignment and technology for implementing an SCTS. If appropriate, next steps will also be outlined in order to carry the recommended proposal through the next phase of design development.

- 1.5 Public Process The public process for the Project Development phase is focused on the comparison of various aerial transit system technologies and alignments. The process will not consider alternatives to a suspended cable transportation system, inasmuch as that level of analysis was performed as part of the Marquam Hill Plan effort. The primary goal of this public process is to share information on the benefits and liabilities of the alignment and technology alternatives for a SCTS, and to allow public feedback on a preferred approach. Some of the techniques that are anticipated to be utilized include:
  - 1.5.1 Stakeholder Interviews Various stakeholders, including project proponents, opponents, and neighborhood representatives, will be interviewed to gather information on project ideas, issues, and impacts. This information will be used to help generate alternatives as well as assist in the evaluation of the various alternatives.
  - 1.5.2 Public Workshop(s) 1-2 public workshops will be held to present alternatives for a SCTS and to gather feedback on the various criteria for the project. A draft analysis of the alternatives will be available at these workshops to give participants a starting point for their own discussion of the alternatives.
  - 1.5.3 City Engineer's Report Review Period Following the workshops, the City Engineer will document the feedback received and consider how the feedback will be incorporated into a draft report to Council The report will be made available to the public at least three weeks before the recommendation is presented to City Council for their action, and will be mailed automatically to properties along the affected alignments, to the CTAG for the Marquam Hill Plan, and to public process participants. Comments can be made in writing to the Council Clerk or can be submitted to City Council at the hearing on the matter.
  - 1.5.4 City Council Hearing The Portland City Council will hold a hearing on the report as part of its consideration of the City Engineer's recommendation. Interested parties will be able to submit comments in writing and/or testify on the matter before Council.
- 1.6 City Council Action The Portland City Council will take action on the City Engineer's recommendation in the form of a Resolution accepting the report and directing PDOT to undertake the next steps, if any, of the planning process. Council will have three courses of action available at that time accepting the City Engineer's report and recommendations; rejecting the report and recommendations; and directing the City Engineer to modify the report and recommendations. If Council accepts the report and recommendations, that decision will set the groundwork for the alignment and technology to be used for the SCTS as it moves into the next phase of development.