

# Agenda



**Metro**

600 NE Grand Ave.  
Portland, OR 97232-2736

Meeting: Smith and Bybee Wetlands Advisory Committee (SBAC)  
Date: Tuesday, March 26, 2019  
Time: 5:30 to 7:30 p.m.  
Place: Metro Regional Center - Room 270  
600 NE Grand Ave., Portland

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5:30 p.m.	Welcome and introductions	All
5:35 p.m.	Approve January 2019 meeting minutes	Troy Clark
5:40 p.m.	Smith and Bybee Fund discussion wrap-up	All
6:15 p.m.	Smith and Bybee planning projects updates	Allan Schmidt
6:45 p.m.	Wapato Jail update	Troy Clark
7:00 p.m.	Conservation projects updates	Jonathan Soll
7:20 p.m.	Goals and next meeting agenda	All
7:30 p.m.	Adjourn	

## **Upcoming SBAC meetings:**

Tuesday, September 24, 2019 at Metro Regional Center

For agenda/schedule information, contact Annie Toledo at 503.813.7565 or [annie.toledo@oregonmetro.gov](mailto:annie.toledo@oregonmetro.gov)

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# Meeting minutes

## Smith and Bybee Wetlands Advisory Committee

March 26, 2019

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### Committee members in attendance

Troy Clark\* .....Audubon Society of Portland (Chair)  
 Carrie Butler\* ..... Port of Portland (Vice Chair)  
 Matthew Lee\* ..... Columbia Slough Watershed Council  
 Emily Roth\* ..... Friends of Smith & Bybee Lakes  
 Jennifer Devlin\* ..... City of Portland, Bureau of Environmental Services  
 Jonathan Soll\* ..... Metro, Parks and Nature  
 Jen Levy\* ..... St. Johns Neighborhood Association

### Others in attendance

Allan Schmidt ..... Metro, Parks and Nature  
 Annie Toledo ..... Metro, Parks and Nature

### Committee members not in attendance

Patt Opdyke\* ..... North Portland Neighbors  
 Bill Briggs\* ..... Oil Re-Refining Company  
 Eric Tonsager\* ..... Oregon Bass and Panfish Club  
 Pam Arden\* ..... 40-Mile Loop Trust

\*Denotes voting Smith and Bybee Wetlands Advisory Committee member.

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### WELCOME

The January 29, 2019 meeting minutes were not approved since there wasn't a quorum at the time of approval.

### SMITH AND BYBEE FUND DISCUSSION WRAP-UP

The committee discussed their final recommendations for how to use the Fund. An email sent by Carrie Butler to the Fund subcommittee summarizes the recommendations. Attachment 1. Below are the options she proposed:

- Option 1: S&B Fund shares costs for all remaining major restoration projects and assists at a lesser amount with monitoring and management such as \$100,000 (instead of \$328,500) which would leave \$1,112,745 in the Fund.
- Option 2: S&B Fund shares costs for all remaining major restoration projects but does not share any costs for monitoring and management costs - leaves \$1,212,745 in the Fund.
- Option 3: S&B Fund shares costs for all remaining major restoration projects plus other monitoring and management costs - leaves \$884,245 in the Fund – not great but still a good amount.

Emily Roth mentioned that the suggested 10-year restoration costs outlined in the Comprehensive Natural Resource Plan (CNRP) is \$1.5 million, and that Metro has spent that amount in five years. However, Jonathan Soll clarified that the CNRP didn't take into account the Ludwigia invasive control, the water control structure, etc.; so that is the reason for the high numbers. Emily recommends that any monitoring or restoration work done on the landfill (not the wetlands) and any regional trail/access work should not be funded from the Smith and Bybee Fund.

The committee agrees that there should be \$1 million left in the Smith and Bybee Fund at the end of the CNRP. They also agree that they don't want to heavily analyze the numbers and would like to let Metro have the freedom to do what they think is best with the money. Emily Roth volunteered to draft a letter to Metro on behalf of the Smith and Bybee Advisory Committee outlining their recommendations. She will include strong justifications and reasons for the dollar amount.

### **SMITH AND BYBEE PLANNING PROJECTS UPDATE**

Allan Schmidt, a parks planner from Metro Parks and Nature, gave updates on different planning projects happening at the site. These include trail improvements, kiosk additions, Columbia Blvd. Bridge and the St. John's Prairie trail. *Attachment 2.*

#### **Trail improvements**

Trail maintenance is occurring in mid-April on 0.6 miles of the Interlakes Trail in order to make it ADA compliant. This improvement will cost about \$23k and is coming out of Metro's maintenance budget. Some cottonwood roots might have to be cut in order to even out the trail and make it truly accessible for all abilities. Any hazard trees around the trail will be removed. Allan will walk the trail with Metro naturalists and scientists to make sure that there are no birds or nests in the trees that are identified to be felled.

#### **Kiosk**

The new kiosk will be installed soon. The size of the map on the kiosk has been made larger so people can take a better picture of it for reference.

#### **Columbia Blvd. Bridge**

Phase 1 of the project is close to starting. Allan presented a draft timeline and mentioned that the dates will most likely get pushed back. There will be robust community outreach led by Portland Parks and Recreation, but this won't begin until a feasibility study is done.

There could potentially be a number of trees removed from Chimney Park once the trail alignment is finalized. The information regarding this won't be available for another 6-8 months. Jennifer Devlin mentioned that there may be a conservation easement at the Chimney Park site; she will research it and email Allan with specifics.

The finished result will probably be done in 2021, if not later.

#### **St. Johns Prairie trail**

This project has already begun and the RFP is live. The consultant will be picked in the summer/fall, and that is when things will start picking up. The overlook outlined in the CNRP is too small—it can only hold about five people. Metro will be designing a much larger overlook to accommodate about 30 people instead of five. The scientist for the site will be doing some planting in the near future around the area where the overlook is proposed to be. Hopefully there will be plants thriving when the first phase of the project is complete.

The CNRP is pretty strict about what can actually be done on the prairie. Metro will conduct a hearty community outreach for this project. The CNRP was written without any community involvement, so it puts Metro in a challenging position. The public can't be asked for feedback

regarding many aspects of the project because of the strict CNRP guidelines. Input regarding art and other features will be solicited instead.

The parking lot at Chimney Park will reach capacity once the trail is built. To offset this issue Metro will be constructing a new parking lot near the entrance to the trail. This parcel where the parking lot is slated to be built is currently owned by Portland Bureau of Environmental Services, but Metro could purchase it. There is discussion about assigning a full-time ranger to the site once the trail is completed due to safety concerns. There is also a canoe launch at the site which requires a safety presence.

#### **WAPATO JAIL UPDATE**

Carrie Butler mentioned that the Port of Portland is in monthly communication with Harsch Investments to work out a deal. Troy Clark has called Harsch multiple times but hasn't received a response.

#### **CONSERVATION PROJECTS UPDATE**

Jonathan went through the budget for FY20 and explained what projects will be funded and the amount budgeted for each. Phase 1 and 2 of the sedge meadow project is wrapping up, but phase 3 is uncertain.

Phases 1 and 2 of the prairie are progressing nicely; Metro is acquiring a lot of seed this year and next year for phase 3. A seed storage unit has been purchased for the Native Plant Center in order to regulate temperatures of the seeds. This storage unit was not purchased with Smith and Bybee Fund money.

The water control structure is working as it should, there is just a bit of maintenance and permit reporting left. The 4th round of water monitoring management won't be started for the next few years. Metro decided to delay the monitoring past the 5 year plan due to the expense of hiring a graduate student to complete this data collection and also because it is apparent that the water control structure is working. The nutria problem isn't too bad right now, but Metro does have a standing contract with USDA animal control to manage the issue.

The spending curve of the Fund seems to be going down, similar to the money spent in the earlier years of the CNRP. In 2022, some weight will be taken off of the Fund for restoration work.

#### **ACTION ITEMS**

- Emily Roth to draft letter to Metro regarding Smith and Bybee Fund spending recommendations.
- Jennifer Devlin to send Allan Schmidt information regarding a conservation easement at Chimney Park.
- Troy Clark to email Allan Schmidt, Jonathan Soll and Elaine Stewart to schedule a field trip for the committee on a Tuesday in late May.

Meeting adjourned at 7:25 p.m.

**Annie Toledo**

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**From:** Butler, Carrie <Carrie.Butler@portofportland.com>  
**Sent:** Tuesday, March 26, 2019 5:34 PM  
**To:** Annie Toledo  
**Subject:** Fwd: Smith and Bybee Fund estimated costs spreadsheets

Begin forwarded message:

**From:** Emily Roth <[emroth@comcast.net](mailto:emroth@comcast.net)>  
**Date:** March 21, 2019 at 7:55:43 PM PDT  
**To:** Matthew Lee <[matthew.lee@columbiaslough.org](mailto:matthew.lee@columbiaslough.org)>  
**Cc:** "Butler, Carrie" <[Carrie.Butler@portofportland.com](mailto:Carrie.Butler@portofportland.com)>, Patt Opdyke <[pattop@comcast.net](mailto:pattop@comcast.net)>, Troy Clark <[brillobrain8@gmail.com](mailto:brillobrain8@gmail.com)>  
**Subject: Re: Smith and Bybee Fund estimated costs spreadsheets**

**EXTERNAL EMAIL:**

Hi All,

I will echo Matt - thanks Carrie.

On the top of the spreadsheet the CNRP states that the restoration listed for all 10 years should be \$1.5 million. Metro seems to have spent that in 5 years. I think all the restoration and monitoring work on the landfill should come from landfill funding and not the trust fund. That is part of the restoration work for the landfill and not the wetlands. I also think all regional trail money, which maybe shown as access should not come from the trust fund. With that said, I can support options 1 and 2 provided the St. John's prairie money is removed. I don't think we should go under \$1 million.

Emily

On Mar 13, 2019, at 9:26 AM, Matthew Lee <[matthew.lee@columbiaslough.org](mailto:matthew.lee@columbiaslough.org)> wrote:

Thanks Carrie for playing around with the numbers. I think these are some great options to bring to the group and really gets to point of how much do we want to have left for the next cycle.

Matt

On Tue, Mar 12, 2019 at 1:46 PM Butler, Carrie <[Carrie.Butler@portofportland.com](mailto:Carrie.Butler@portofportland.com)> wrote:

## Attachment 1

Hello S&B Fund Budget Subcommittee,

I was looking over the materials that Jonathan provided and have some observations that I wanted to run by you before taking to the whole group:

- Two different Fund balances for FY20: the Balance Calculation sheet shows \$1,598,245 and the Projected Spending sheet shows \$1,698,585. I'll ask Jonathan about this but wondered if you all have any insights.
- If we base the Fund balance on the lower balance amount for FY20, it looks like we could still pay for all of the major restoration work plus assist with some monitoring and general land management while keeping one million in the coffers. Let me know what you think and if this makes sense:
  - **Option 1:** S&B Fund shares costs for all remaining major restoration projects and assists at a lesser amount with monitoring and management such as \$100,000 (instead of \$328,500) which would leave \$1,112,745 in the Fund.
  - **Option 2:** S&B Fund shares costs for all remaining major restoration projects but does not share any costs for monitoring and management costs - leaves \$1,212,745 in the Fund.
  - **Option 3:** S&B Fund shares costs for all remaining major restoration projects plus other monitoring and management costs - leaves \$884,245 in the Fund – not great but still a good amount.

I was just fiddling around with the numbers and I may be missing something so let me know.

Thanks!

Carrie

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**From:** Annie Toledo <[annie.toledo@oregonmetro.gov](mailto:annie.toledo@oregonmetro.gov)>

**Sent:** Monday, March 11, 2019 11:27 AM

**To:** Bill Briggs <[billb@orrco.biz](mailto:billb@orrco.biz)>; Butler, Carrie <[Carrie.Butler@portofportland.com](mailto:Carrie.Butler@portofportland.com)>; Corrina Chase <[corrina.chase@columbiaslough.org](mailto:corrina.chase@columbiaslough.org)>; Dan Moeller <[Dan.Moeller@oregonmetro.gov](mailto:Dan.Moeller@oregonmetro.gov)>; Elaine Stewart <[Elaine.Stewart@oregonmetro.gov](mailto:Elaine.Stewart@oregonmetro.gov)>; Emily Roth <[emroth@comcast.net](mailto:emroth@comcast.net)>; Eric Tonsager <[eric@tonsager.com](mailto:eric@tonsager.com)>; Jennifer Devlin <[JENNIFER.DEVLIN@portlandoregon.gov](mailto:JENNIFER.DEVLIN@portlandoregon.gov)>; Jonathan Soll <[Jonathan.Soll@oregonmetro.gov](mailto:Jonathan.Soll@oregonmetro.gov)>; Justin Takkunen <[Justin.Takkunen@oregonmetro.gov](mailto:Justin.Takkunen@oregonmetro.gov)>; Matthew Lee <[matthew.lee@columbiaslough.org](mailto:matthew.lee@columbiaslough.org)>; Pam Arden <[pamarden46@gmail.com](mailto:pamarden46@gmail.com)>; Patt Opdyke <[pattop@comcast.net](mailto:pattop@comcast.net)>; Sara Henderson <[kentuckysara@gmail.com](mailto:kentuckysara@gmail.com)>; [susan.p.barnes@state.or.us](mailto:susan.p.barnes@state.or.us); Troy Clark <[brillobrain8@gmail.com](mailto:brillobrain8@gmail.com)>

**Cc:** Jonathan Soll <[Jonathan.Soll@oregonmetro.gov](mailto:Jonathan.Soll@oregonmetro.gov)>

**Subject:** Smith and Bybee Fund estimated costs spreadsheets

**EXTERNAL EMAIL:**

## Attachment 1

Hi Smith and Bybee Advisory Committee,

As promised at the last meeting, Jonathan has provided the two attached documents for your review:

- Smith and Bybee fund history and projected FY19 and FY20 costs.
- Estimated costs of finishing major restoration projects and ongoing maintenance.

This provides his best estimate of remaining costs to complete restoration of major habitat types at Smith and Bybee Natural Area. Funding is divided into two time periods: now through end of CNRP (and current Levy) and what will be left to do for CNRP2.

If you have any questions, please email Jonathan at [jonathan.soll@oregonmetro.gov](mailto:jonathan.soll@oregonmetro.gov).

I will be sending out the agenda and meeting reminder tomorrow.

Best,

Annie

Annie Toledo  
Planning and Conservation Program Assistant  
Parks and Nature

*pronouns: she, her*

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***Matthew Lee***  
***Stewardship Director***  
***Columbia Slough Watershed Council***  
***7040 NE 47th Avenue***  
***Portland, OR 97218***  
***Phone: 503.281.1132***  
**[www.columbiaslough.org](http://www.columbiaslough.org)**

Emily Roth  
[emroth@comcast.net](mailto:emroth@comcast.net)  
Enjoy Life



This Web site is offered as a public service, integrating various government records into a region-wide mapping system. The property assessment records are a multi-county integration of Clackamas, Multnomah and Washington County records. MetroMap blends each county's records into a common database on a quarterly basis. Therefore, to view each county's official records, go to their respective web sites or offices. The other MetroMap data are derived from city, county, state, federal and Metro sources. The metadata (data about the data) are included on this site, including the sources to be consulted for verification of the information contained herein. It describes some cases where Metro blends city and county records by generalizing the disparities. Metro assumes no legal responsibility for the compilation of multi-source government information displayed by Metro Map.



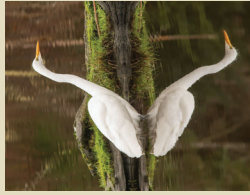
Data Resource Center  
600 NE Grand Ave, Portland, OR 97232  
503.797.1742 – [drc@oregonmetro.gov](mailto:drc@oregonmetro.gov)



Welcome | **Bienvenido** | 欢迎 | **Chào mừng bạn** | **Добро пожаловать**

# Smith and Bybee Wetlands

Covering more than 2,000 acres, Smith and Bybee Wetlands is one of the largest urban freshwater wetlands in the United States and among the best places to view wildlife in the region. Discover basking turtles in the spring, creepy-crawly insects in the summer, migrating birds in the fall and soaring raptors in the winter. Any time of year, you could spot muskrats, beavers, black-tailed deer, raccoons, cottontail rabbits, river otters, long-tailed weasels or coyotes.



The great egret (*Ardea alba*) was nearly hunted to extinction in the late 19th century. Today you can find them at Smith and Bybee Wetlands.

In late summer and fall, watch the mudflats for the hearty, shovel-shaped leaves of wapato. The wapato's golf ball-sized tuber is an important first food to indigenous people across the region.

Like all land along the Columbia, this area changed dramatically as the region's population began to grow in the 1880s. In 1948, about one mile east of here, the dike holding back Smith Lake broke and flooded Vanport, displacing 18,500 people.

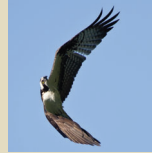
Be on the lookout!



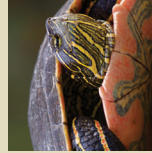
Muskrat  
*Ondatra zibethicus*



Wapato  
*Sagittaria latifolia*



Osprey  
*Pandion haliaetus*



Western painted turtle  
*Chrysemys picta bellii*



Learn more  
[oregonmetro.gov/smithandbybee](http://oregonmetro.gov/smithandbybee)

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For more information call 503-797-1545 or visit [oregonmetro.gov/parks](http://oregonmetro.gov/parks)

## Be safe, have fun

- Park is open daily, sunrise to sunset.
  - No littering, fires, pets, alcohol or hunting.
  - Stay on trails to protect sensitive habitat.
- Pets policy: Dogs and other pets are not allowed at Smith and Bybee Wetlands. Pets can damage sensitive habitat areas.
- Dogs are allowed on a leash at Kelley Point Park, located at the northwest end of Marine Drive and all Portland city parks. City rules require that pet owners pick up after their dogs.

Visitors of these or any other park, rules are subject to station and/or eviction. (Metro Code, Title 10) LIABILITY NOTICE: Under Oregon law, Metro is not liable for injury, death, or property damage that results from the use of Metro facilities or recreational facilities. For details, see Oregon Revised Statutes 105.672 to 105.696.



### Cuidese, diviértase

- El parque está abierto todos los días, desde el amanecer hasta el la puesta del sol.
  - No tirar basura, prender fuego, traer mascotas, consumir alcohol, ni cazar.
  - Permanezca en los senderos para proteger el hábitat sensible.
- Política de mascotas: no se permiten perros ni otras mascotas en los alrededores de Smith y Bybee. Las mascotas pueden causar daños sensibles del hábitat.

Se permiten perros con correa en el Parque Kelley Point, ubicado al extremo noroeste de Marine Drive y en todos los parques de la ciudad de Portland. Las reglas de la ciudad exigen a los dueños a recoger los desechos de sus mascotas.

Los transgresores de estas u otras reglas de parque se sujetan a una multa o desahucio. (Código de Metro, Título 10)

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### Hãy giữ an toàn và vui chơi

- Công viên mở cửa hàng ngày, từ bình minh đến hoàng hôn.
- Không xả rác, gây cháy, săn bắn thú nuôi, rượu hoặc săn bắn.
- Luôn đi trên đường mòn để bảo vệ môi trường sinh thái nhạy cảm.

Chính sách thú cưng: Chó và các vật nuôi khác không được phép vào Khu đi bộ Smith và Bybee. Vật nuôi có thể làm hỏng các khu vực sinh thái nhạy cảm.

Cho phép chó có dây xích tại Kelley Point Park, nằm ở đầu phía tây bắc của Marine Drive và tất cả các công viên thành phố Portland. Quy định của thành phố yêu cầu chủ sở hữu vật nuôi phải dọn vệ sinh chó của mình.

Những người vi phạm các quy định này hoặc bất cứ quy định nào khác của công viên có thể bị phạt tiền hoặc bị trục xuất khỏi công viên. (Luật Metro, Mục 10)

TRONG VIỆC TRÁCH NHIỆM THEO PHÁP LUẬT CỦA OREGON, METRO KHÔNG CHịu TRÁCH NHIỆM VỀ THƯƠNG HẠI, CHẾT CHNG, CHẾT NGƯỜI HOẶC TỬ VONG TÀI SẢN DO SỬ DỤNG CÁC THIẾT BỊ CÔNG VIÊN. Để biết thêm chi tiết, xin vui lòng tham khảo các quy định của pháp luật Oregon 105.672 đến 105.696.

### 注意安全,玩得开心

- 公园每天开放,从日出到日落。
  - 禁止乱扔垃圾,生火,携带宠物,饮酒或狩猎。
  - 为保护环境敏感地带,请留在步道上。
- 宠物政策: Smith and Bybee Wetlands 不允许携带宠物。宠物和其他动物主人,可能会破坏敏感地带的环境。

在位于 Marine Drive 西北端的 Kelley Point Park 允许拴绳的狗,以及所有波特兰市公园。城市规则要求宠物主人,为他们的宠物收拾粪便。

在这些或其他公园,规则均受站点和/或被驱逐。 (Metro 条例,第 10 条)

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- Парк открыт ежедневно, с рассвета до заката.
- Не курить, разжигать огонь, охотиться и распивать спиртные напитки запрещено.
- Не выходите за пределы троп, чтобы не нарушить равновесие естественной среды обитания.

Правила посещения с домашними животными: собаки и другие питомцы не допускаются на территории водно-болотных угодий Smith и Bybee. Домашние животные могут нарушить равновесие чувствительных сред обитания.

В парк Kelley Point, расположенный в северо-западном конце Marine Drive, а также во все городские парки Портленда допускаются собаки на поводке. Правила требуют от владельцев собак убирать за ними.

Посетители этих или других парков, нарушающие правила, могут быть оштрафованы или выведены из парка. (Законы Metro, статья 10)

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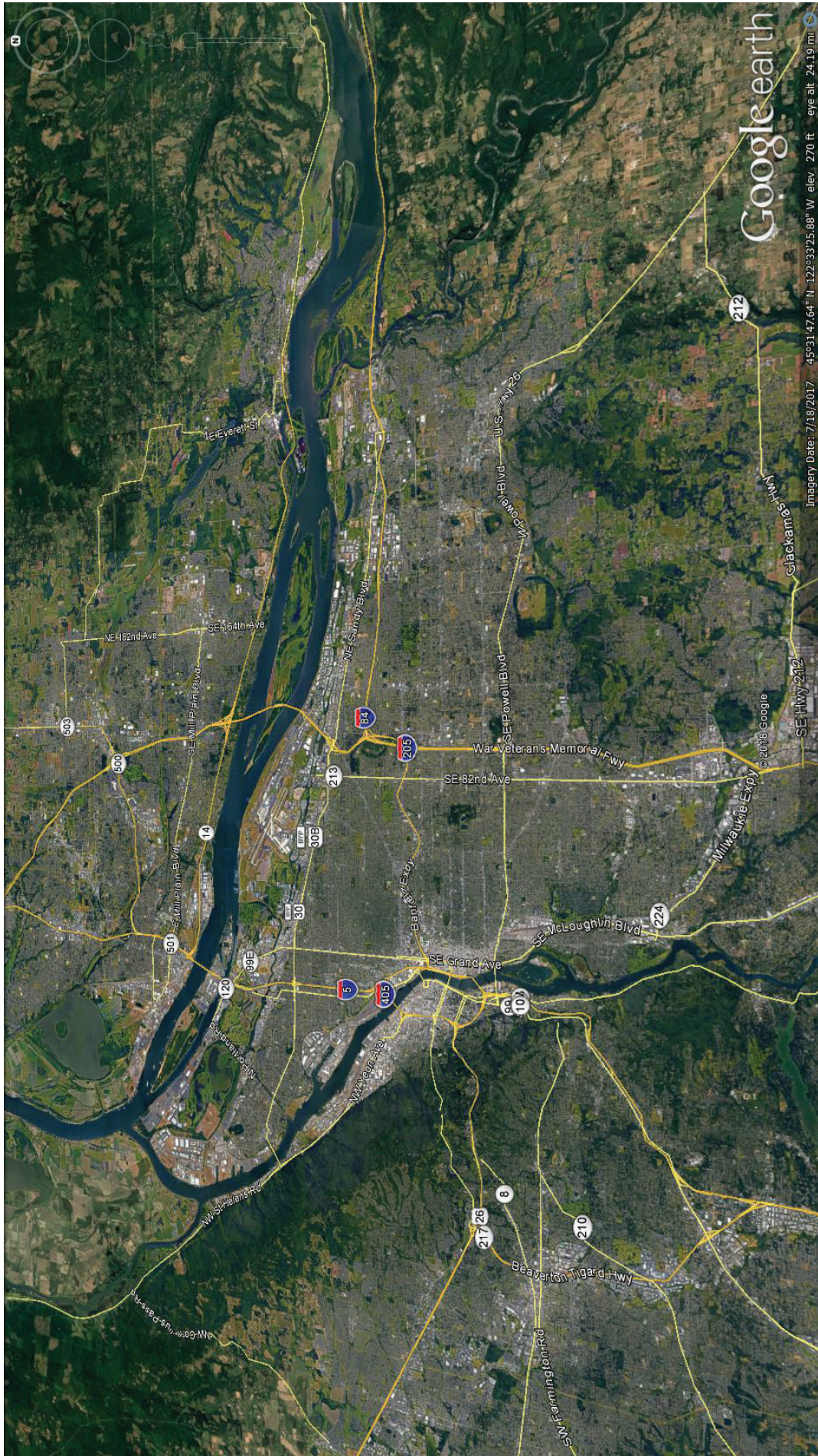


# Columbia Blvd Bridge & St. Johns Prairie Trail PROJECT UPDATE

Tuesday, March 26, 2018



Attachment 2







# St Johns Prairie Trail & Chimney Park Bridge over Columbia Boulevard

## PROJECT 1

Chimney Park Trail & Bridge over Columbia Boulevard

Proposed Trail

## PROJECT 2

St Johns Prairie Trail & Overlook

Proposed Trail - Phase One

Proposed Trail - Phase Two

Existing Regional Trail

Railroad

Metro Property

Port of Portland Property

BES Property

Portland Parks Property

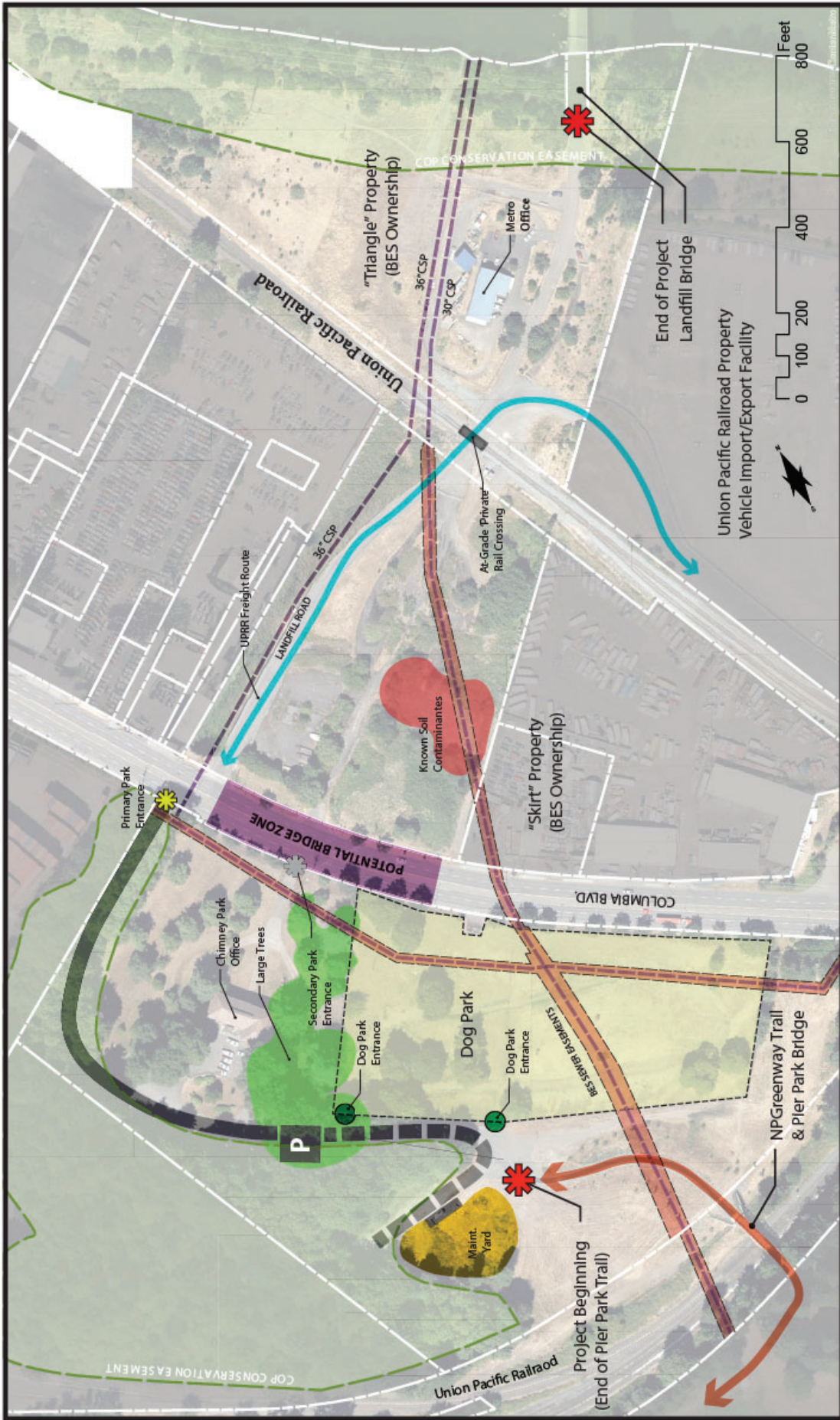


# 1. Columbia Blvd. Bridge



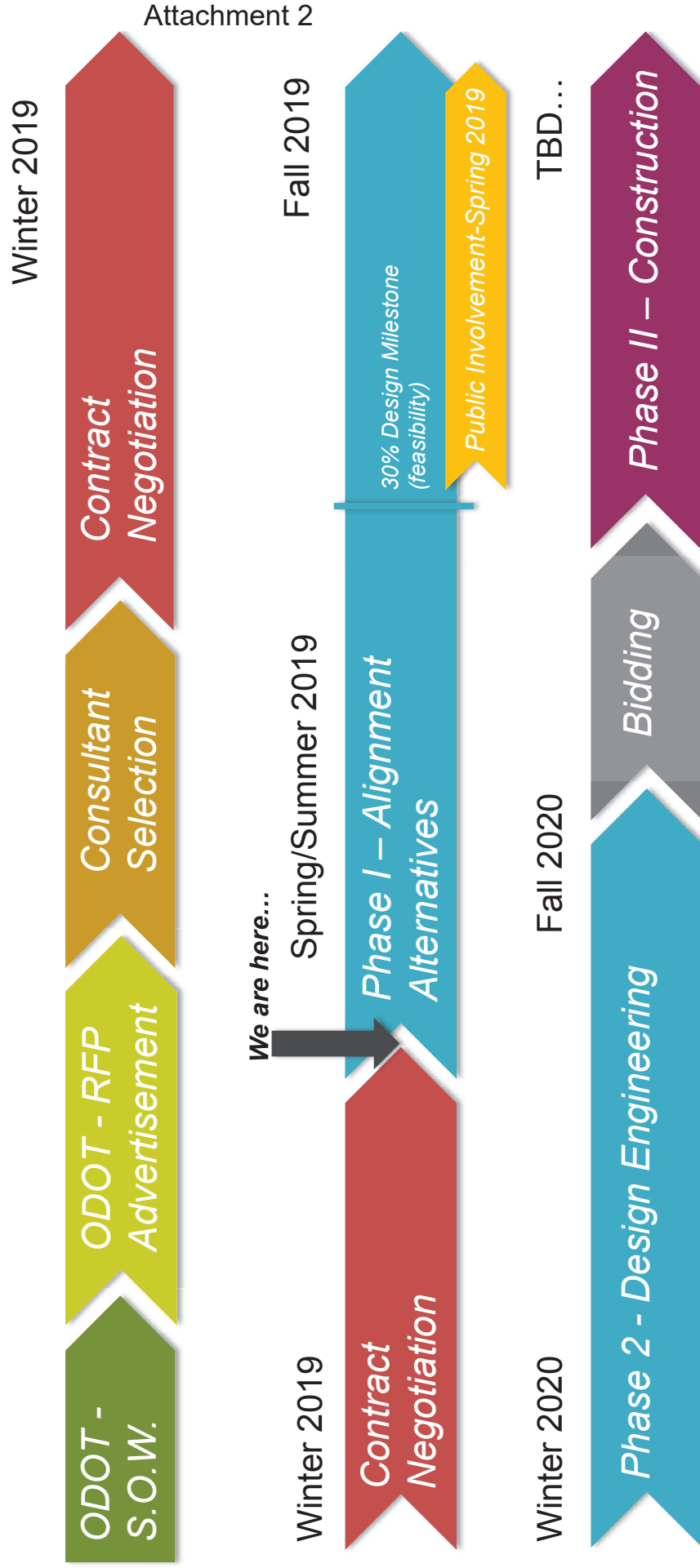






# Columbia Blvd. Bridge

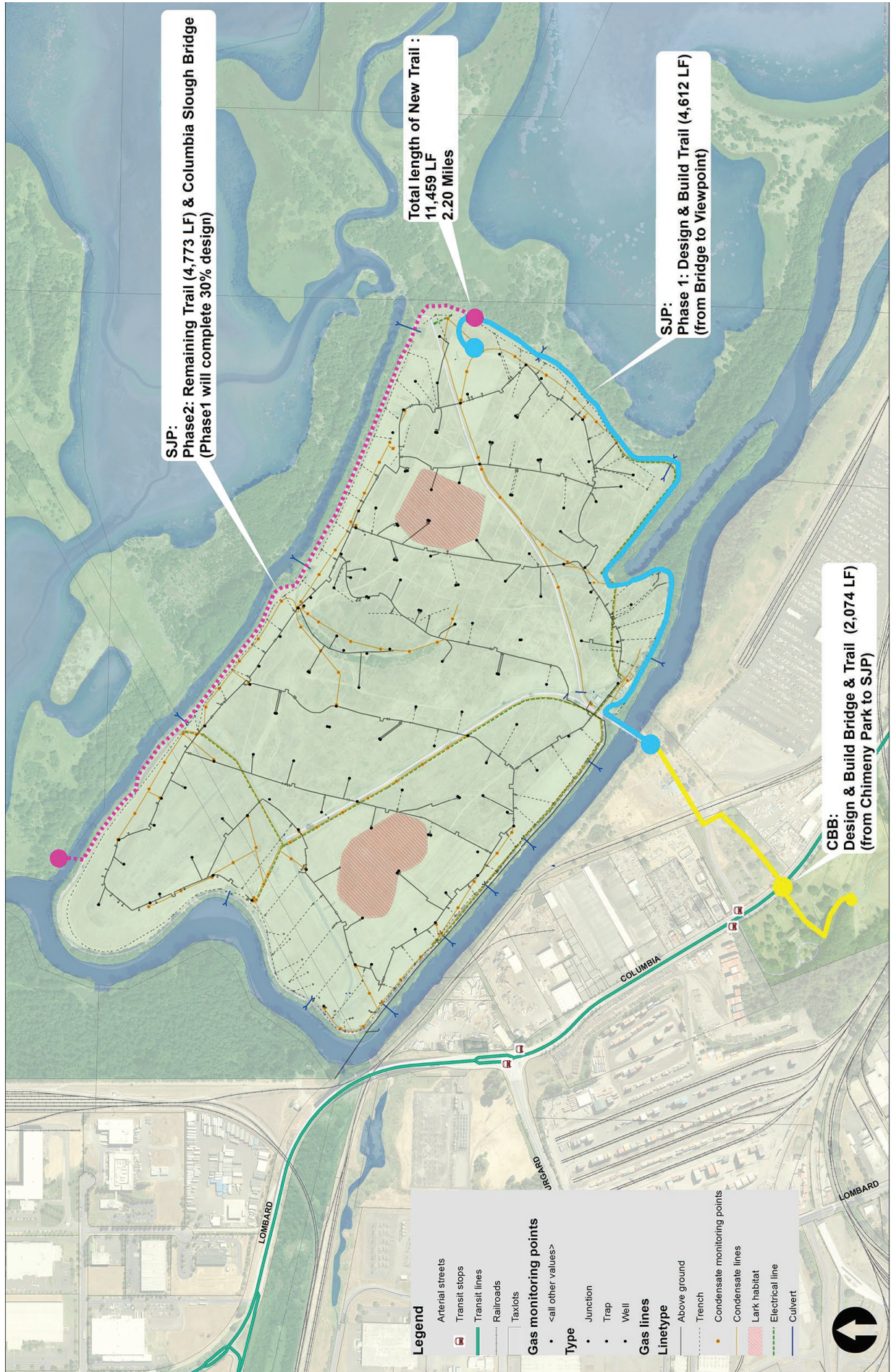
## DRAFT Schedule



# 2. St. Johns Prairie Trail



# Attachment 2



# St. Johns Prairie Trail

- Project planning, design and construction to be a “staggered” with Columbia Blvd. Bridge project (CBB) coming after SJP Design and build.
- SJP Phase 1 - design & build trail from landfill bridge to viewpoint & 30% design of *N. Slough Bridge*
- SJP Phase 2 –Trail & N. Slough Bridge (*highlighted project in proposed Metro Bond*)



Attachment 2





CONSULTANT:  
 Landscape Architecture  
**Nevele Ngan Associates**  
 1055 S. California Ave., 200  
 Portland, Oregon 97214  
 Phone: 503.339.9800  
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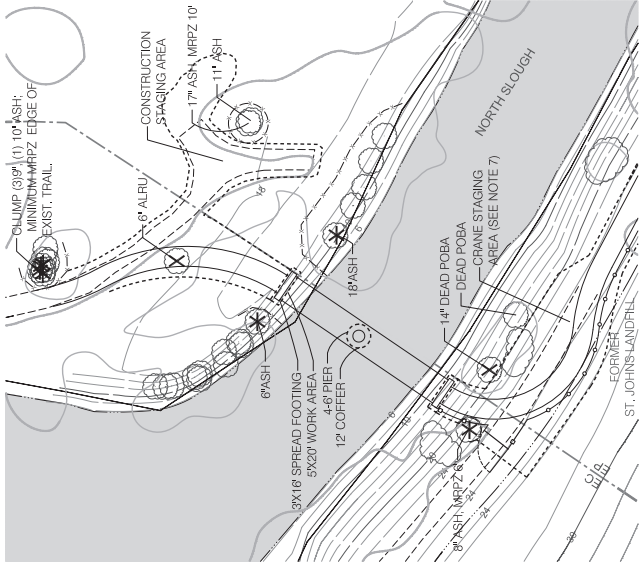
SMITH AND BYBEE WETLANDS NATURAL AREA  
 COMPREHENSIVE NATURAL RESOURCE PLAN  
 METRO  
 SMITH AND BYBEE LAKES  
 LAND USE REVIEW - NOT FOR CONSTRUCTION

NO.	DATE	TITLE

DATE: 8/13/12  
 JOB NO.: NVA 1205

SCALE: SEE PLAN  
 DRAWN BY: OT  
 CHECKED BY: BN  
 SHEET

**L1.3**  
 (APPENDIX C3)



2 BRIDGE ENLARGEMENT



LEGEND

- PROPOSED TRAIL
- EXISTING ASPHALT TRAIL
- BODY OF WATER
- CNRP BOUNDARY
- PORTLAND ENVIRONMENTAL ZONES
- EX. GRAVEL SERVICE ROAD
- EDGE OF TREE CANOPY
- FENCE - POST AND SINGLE CABLE
- FENCE - POST AND DOUBLE CABLE
- TEMPORARY DISTURBANCE LIMITS
- CONTOUR (10' AND 2' INTERVALS)
- 10
- 2
- TREE PROTECTION FENCING
- 12" ASH EXISTING TREE TO REMAIN
- 8" ASH EXISTING TREE TO BE REMOVED
- 8" ASH EXISTING TREE TO BE SAVED BUT MITIGATED. SEE NOTE 6.

TREES REMOVED

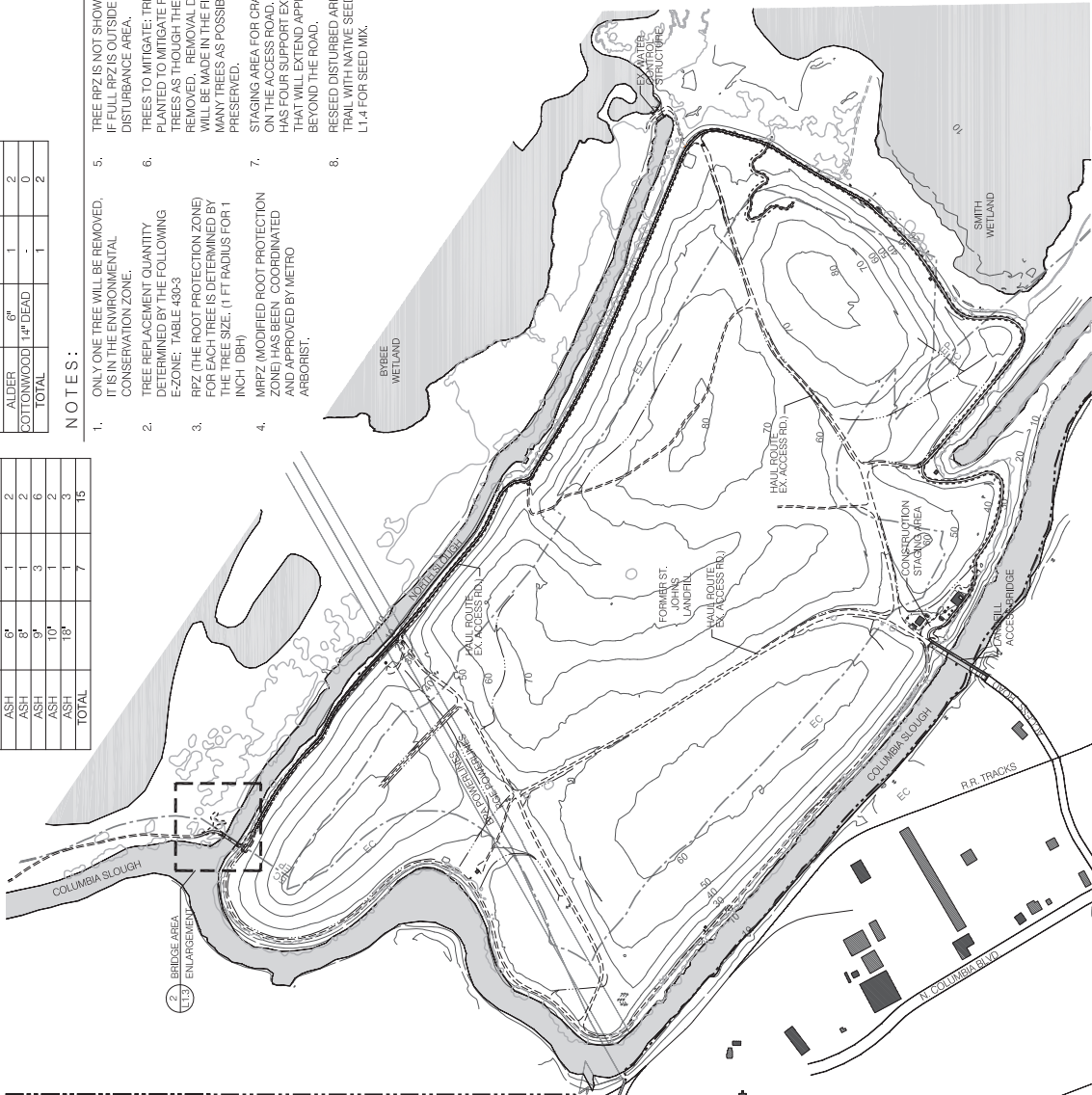
VARIETY OF TREE REMOVED	SIZE OF TREE REMOVED	# TREES REMOVED	# TREES REPLACED
ALDER	6"	1	2
COTTONWOOD	14" DEAD	1	0
TOTAL		2	2

NOTES:

- ONLY ONE TREE WILL BE REMOVED. IT IS IN THE ENVIRONMENTAL CONSERVATION ZONE.
- TREE REPLACEMENT QUANTITY DETERMINED BY THE FOLLOWING E-ZONE. TABLE 400-3
- RPZ (THE ROOT PROTECTION ZONE) FOR EACH TREE IS DETERMINED BY THE TREE SIZE: (1 FT RADIUS FOR 1 INCH DBH)
- MRPZ (MODIFIED ROOT PROTECTION ZONE) HAS BEEN COORDINATED AND APPROVED BY METRO ARBORIST.
- RESEED DISTURBED AREAS ALONG TRAIL WITH NATIVE SEED MIX. SEE L1.4 FOR SEED MIX.

TREES MITIGATED

VARIETY OF TREE MITIGATED	SIZE OF TREE MITIGATED	# TREES MITIGATED	# MITIGATION PLANTS PLANTED
ASH	6"	1	2
ASH	6"	1	2
ASH	9"	3	6
ASH	10"	1	2
ASH	18"	7	13
TOTAL		13	25



1 CONSTRUCTION MANAGEMENT PLAN - REGIONAL TRAIL AND BRIDGE







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SMITH AND BYBEE WETLANDS NATURAL AREA  
COMPREHENSIVE NATURAL RESOURCE PLAN  
METRO  
SMITH AND BYBEE LAKES  
LAND USE REVIEW - NOT FOR CONSTRUCTION

REVISIONS:

NO.	DATE	TITLE

SHEET TITLE:  
**REGIONAL TRAIL AND BRIDGE**  
**MITIGATION PLAN**

SCALE: SEE PLAN  
DRAWN BY: OT  
CHECKED BY: BN  
SHEET

**L1.4**  
**APPENDIX C4**  
DATE: 6/13/12  
JOB NO.: NNA 1205

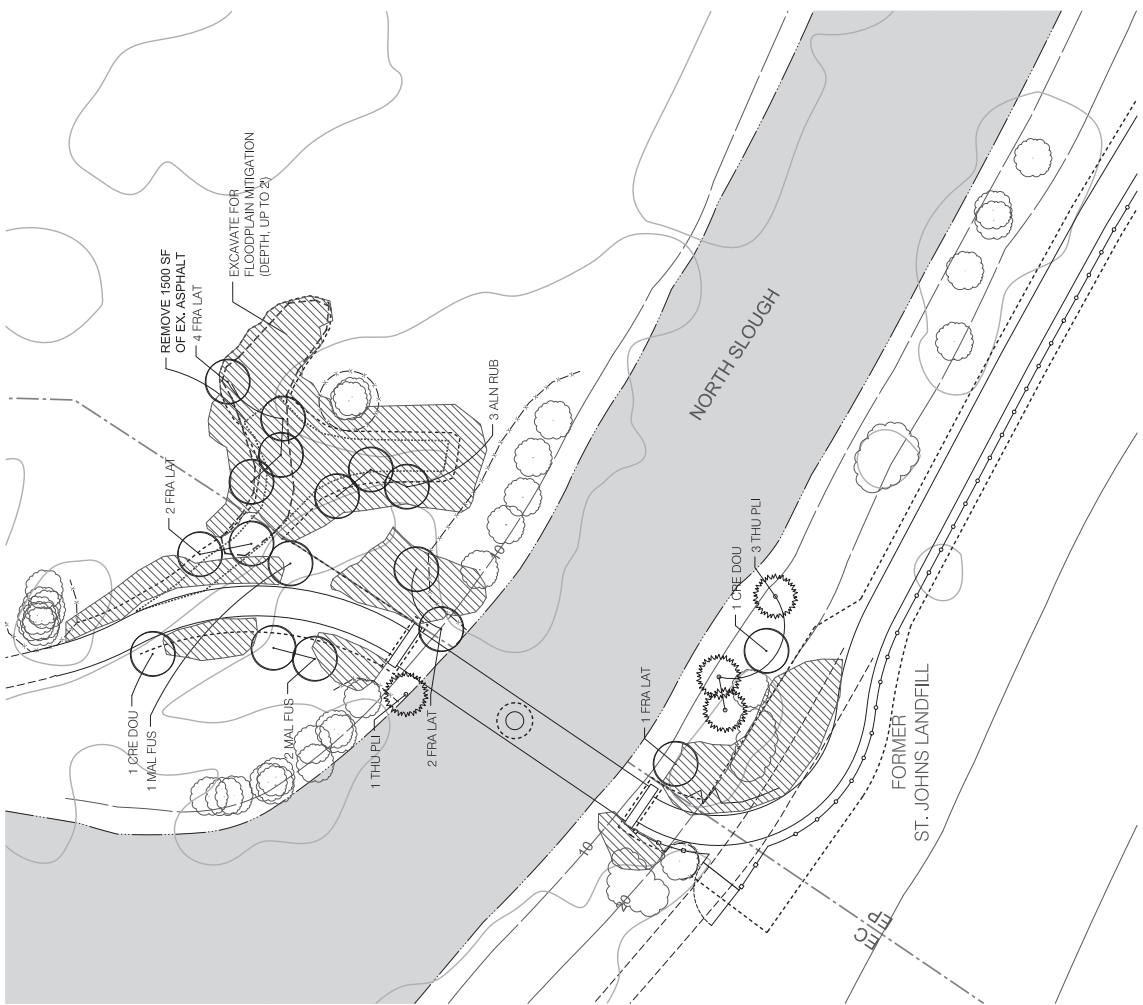
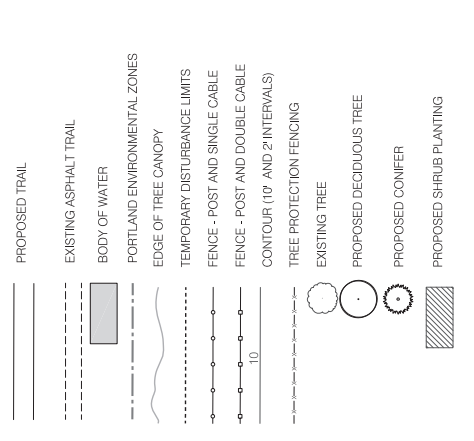
**PLANT SCHEDULE**

Botanical Name	Common Name	Quantity	Plan Symbol
1/2" Inch cal. Trees/Large Shrubs -			
Alnus Rubra	Red alder	3	ALN RUB
Ceteagus Douglasi	Black Hawthorn	2	CRE DOU
Fraxinus latifolia	Oregon Ash	9	FRA LAT
Malus fusca	Pacific Crabapple	3	MAL FUS
Thuja plicata	Western redcedar	4	THU PLI
<b>Total # mitigation trees = 17 + 20%</b>		<b>21</b>	

Bare-Root Shrubs	Common Name	Quantity	Plan Symbol
Salix fluviatilis	Columbia River willow	23	
Ribes sanguineum	Red Flowering Currant	45	
Rosa pratincola	Spice Rose	45	
Spiraea alba	Spirea	12	
Oenothera cordifolius	Indian Plum	22	
Cornus sericea	Red Osier Dogwood	34	
Physocarpus opulifolius	Pacific Ninebark	45	
<b>Total # Shrubs</b>		<b>227</b>	

Native Herbaceous Seed Mix	Common Name	Quantity	Plan Symbol
*Seed in all areas that have been disturbed.			
Deschampsia cespitosa	Tufted Hairgrass	3	
Leersia oryzoides	Rice Cutgrass	10	
Agrostis exarata	Spike Bent Grass	1	
Deschampsia elongata	Slender Hair Grass	1	
Hordeum brachyantherum	Meadow Barley	2	
Carex leptopoda	Slender foot sedge	3	
<b>Total Lbs/Acre</b>		<b>20</b>	

**LEGEND**



1 MITIGATION PLAN - REGIONAL TRAIL AND BRIDGE





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SMITH AND BYBEE WETLANDS NATURAL AREA  
 METRO  
 SMITH AND BYBEE LAKES  
 LAND USE REVIEW - NOT FOR CONSTRUCTION

REVISIONS:

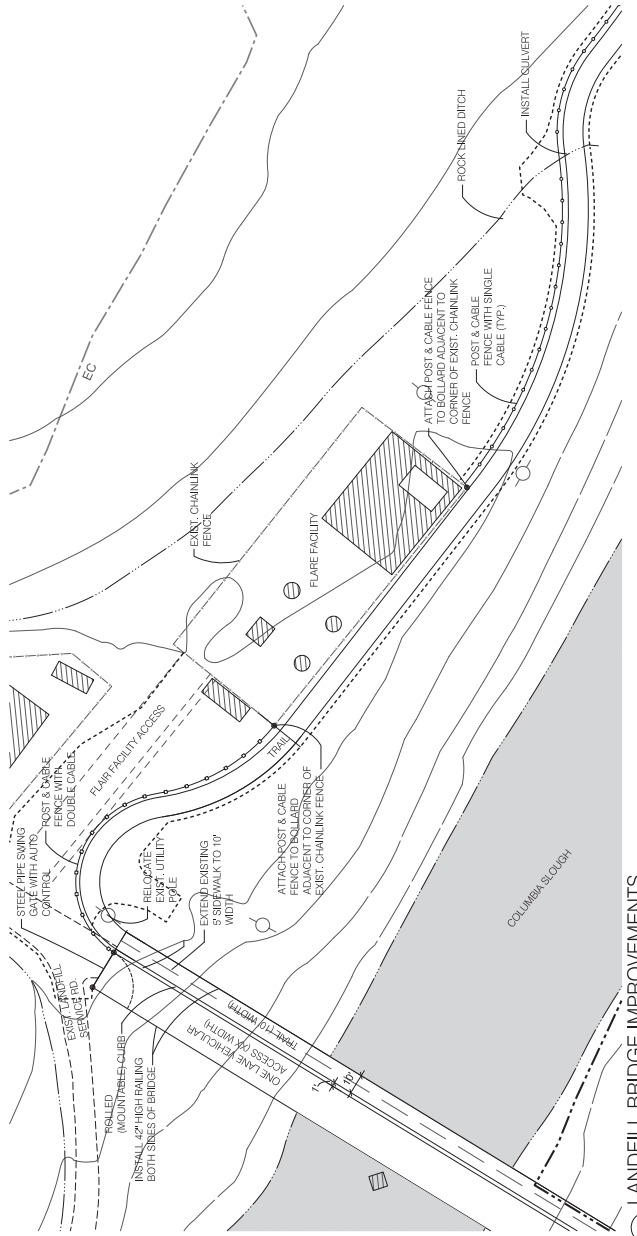
NO.	DATE	TITLE

REGIONAL TRAIL AND BRIDGE  
 DETAILS: GATES AND BRIDGE  
 SCALE: SEE PLAN  
 DRAWN BY: OT  
 CHECKED BY: BN  
 SHEET

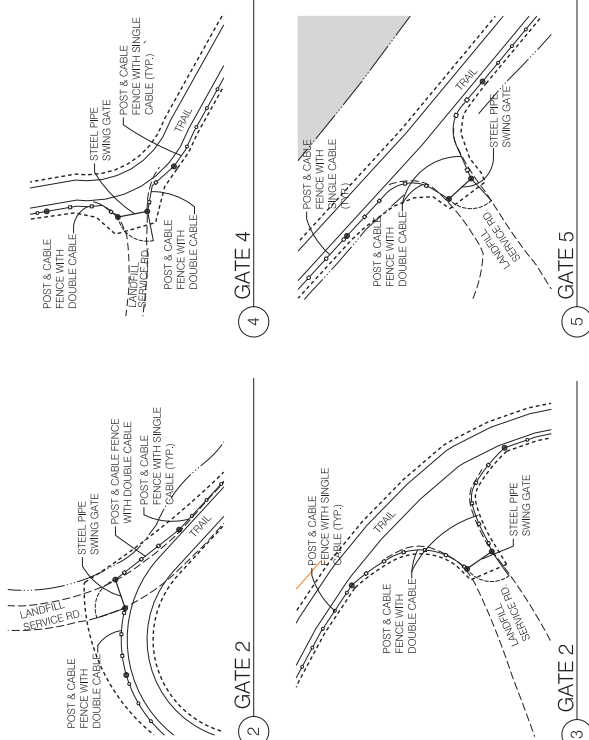
**L1.5**  
 APPENDIX CS  
 DATE: 6/13/12  
 JOB NO.: NNA 1205

**LEGEND**

- PROPOSED TRAIL
- TEMPORARY DISTURBANCE LIMITS
- BODY OF WATER
- CNRP BOUNDARY
- PORTLAND ENVIRONMENTAL ZONES
- EXISTING GRAVEL SERVICE ROAD
- SINGLE CABLE POST & CABLE FENCE
- DOUBLE CABLE POST & CABLE FENCE
- CONTOUR (10' AND 2' INTERVALS)
- 10



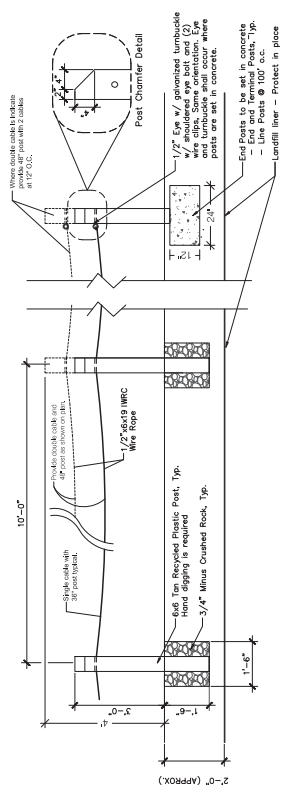
**1 LANDFILL BRIDGE IMPROVEMENTS**



**2 GATE 2**

**4 GATE 4**

**5 GATE 5**



**6 POST AND CABLE FENCE**



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SMITH AND BYBEE WETLANDS NATURAL AREA  
 METRO  
 SMITH AND BYBEE LAKES  
 LAND USE REVIEW - NOT FOR CONSTRUCTION

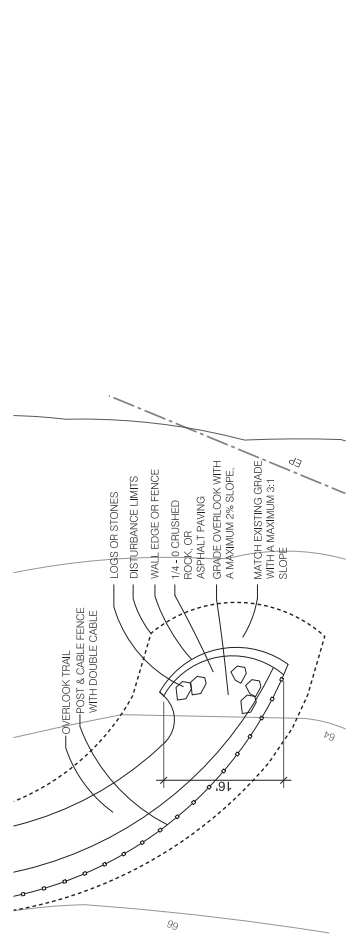
REVISIONS	DATE	TITLE

SHEET TITLE:  
**REGIONAL TRAIL AND  
 BRIDGE**  
 DETAILS

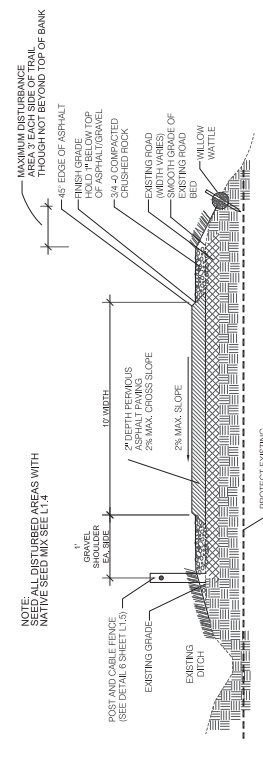
SCALE:  
 DRAWN BY: OT  
 CHECKED BY: BN  
 SHEET

**LI.6**  
 APPENDIX C6

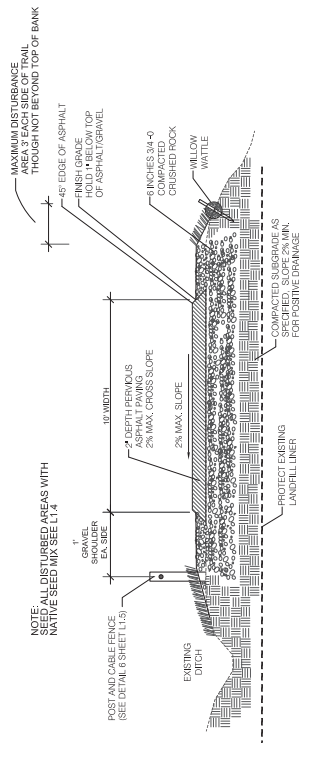
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 JOB NO.: NNA 1205



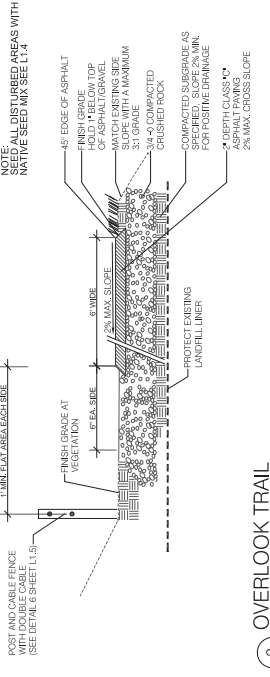
5 OVERLOOK  
 NTS



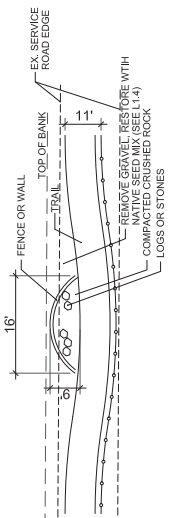
1 PAVED TRAIL TYPE A: TRAIL ON EXISTING GRAVEL SERVICE RD.  
 NTS



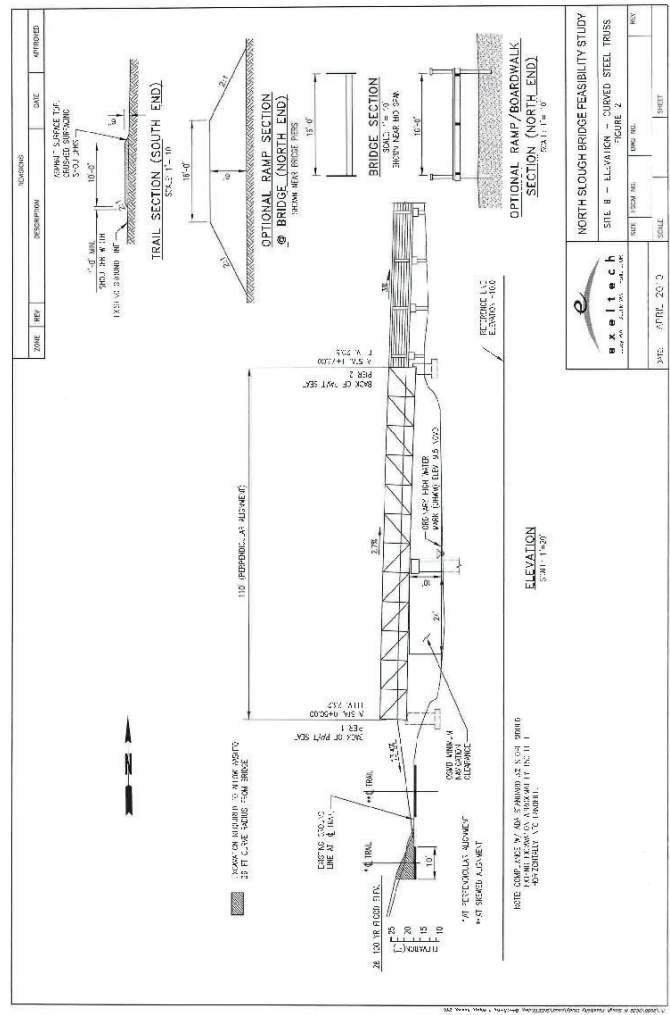
2 PAVED TRAIL TYPE B: TRAIL ON LANDFILL  
 NTS



3 OVERLOOK TRAIL  
 NTS



4 VIEW POINT  
 NTS



METRO OR DEA TO PROVIDE UPDATED BRIDGE SECTION

6 BRIDGE  
 NTS

**exelitech**  
 CONSULTANTS

NORTH SLOUGH BRIDGE FEASIBILITY STUDY  
 SITE B - ELEVATION - CURVED STEEL TRUSS  
 SHEET 2 OF 2

DATE: 07/11/12  
 SCALE: 1" = 20' 0"  
 SHEET



Questions?