



PORT OF ARLINGTON
September 14, 2016

1. COVER SHEET
2. SURVEY
3. SITE PHOTO-DEMO
4. GRADING PLAN
5. DIMENSIONAL PLAN
6. TRAIL PROFILE
7. PROJECT SECTIONS
8. GROIN ELEVATION
9. DETAILS
10. EROSION CONTROL
11. CONTOUR OVERLAY



ENGINEER:
Flowing Solutions, LLC
3305 S.W. 87th
Portland, OR 97225
Contact - Andrew Jansky
(503) 297-6311

OWNER:
Port of Arlington
100 Arlington Port Rd.
Arlington, Oregon 97812
Contact - Peter Mitchell
(541) 454-2868

1. Bid documents include contract requirements, plans, written specifications and, detail design specification.
2. Contractor shall meet regulatory permit conditions for this project. Permits are included in bid documents.
3. Contractor shall obtain specific trade permits, if required.
4. Contractor shall deliver sample material onsite for Owners Representative/Engineer approval.
5. Contractor shall bring plan/site/specifications discrepancies to the attention of the Owners Representative/Engineer immediately upon discovery.
6. Additional upland improvements may occur at a later date, and are not part of this contract.

7. Work site is located within the John Day Pool on the Columbia River and is exposed to significant wind and wave conditions which can vary daily based on direction of waves. These conditions may impact contractor work methodology and schedule if not prepared. Breaking waves larger than 5 ft are typical at this location.
8. Pool variation may vary daily, and through out the work window, based on dam operations and seasonal water conditions. Hourly historic data is available online for the dam. Port will be in contact with Reservoir Control regarding operations and a potential limited duration pool draw-down.
9. Weather conditions typically vary significantly during schedule work period. Contractor should expect freezing conditions and be prepared to adjust schedules for seasonal conditions.
10. Wind direction can change daily depending on various factors. Check weather if performing tasks that could be impacted by wind speed and direction.
11. Survey was collected in April 2015, slope erosion has occurred since that time and site conditions have changed. Contour information is estimated along north perimeter. Owners Representative/Engineer may adjust path location to maintain estimated cut/fill volumes based on contractor provided preliminary alignment/location stakes.
12. Contractor shall notify national CALLBEFOREYOU.DIG.ORG locate number (811) prior to work.

NOTE-THESE PLANS SHOULD BE
PLOTTED ON 11'x17' SHEET TO
REFLECT FULL SCALE

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SURVEY DATUM

- ELEVATIONS SHOWN ARE A REPRESENTATION OF NAVD88 (GEOID09) AS DETERMINED BY REFERENCE TO THE OREGON REAL TIME NETWORK (ORGN) AT APA CONTROL POINT NOS. 501, 502 & 503.
- THE COORDINATES OF POINT NOS. 501, 502 AND 503, REPRESENT THE OREGON COORDINATE SYSTEM - NORTH ZONE NAD 83 (CORS 98), ALSO DETERMINED BY ORGN OBSERVATIONS.
- POOL ELEVATION: THE NORMAL POOL ELEVATION OF THE JOHN DAY POOL IS 265' (NGVD29) DATUM AS PUBLISHED ON THE USGS QUADRANGLE "ARLINGTON, OREG.-WASH., 1971". THE EQUIVALENT NORMAL POOL ELEVATION EXPRESSED IN THE NAVD88 DATUM IS 268.3' +/-.

SURVEY NOTES

- UTILITY LOCATIONS SHOWN WERE SURVEYED BASED ON THE PHYSICAL PAINTED MARK OUTS (PROVIDED BY THE ONE-CALL UTILITY LOCATE SERVICE) THAT WERE VISIBLE ON THE GROUND AND THOSE UTILITIES THAT WERE VISIBLE ABOVE GROUND AT THE TIME OF THE SITE SURVEY. THERE MAY BE UNDERGROUND UTILITIES ON SITE THAT WERE NOT IDENTIFIABLE BY THE FIELD SURVEY CREW. IF THERE ARE UTILITIES IN AREAS THAT ARE CRITICAL TO THE FUTURE DESIGN PROJECTS THERE MAY BE A NEED FOR SUBSURFACE INVESTIGATION IN THOSE AREAS.
- FIELD SURVEY WAS COMPLETED IN APRIL, 2015.

NOTE:

AREA UNDER CONSTRUCTION/MODIFICATION DURING THE FIELD SURVEY FOR THIS SITE PLAN. CONTOURS AND IMPROVEMENTS MAY HAVE CHANGED IN THIS AREA.

DATUM: NAVD88

SHEET

2

OF 11

RIVER ACCESS

Port of Arlington

100 Port Island Road
Arlington Oregon 97012

DATE: 9/14/2016
PROJECT: Port of Arlington-River Access

SURVEY

Flowing solutions



DRAWING NOT TO SCALE



SCALE

None

HORIZ.

PLAN

VERT.

PROFILE

ONE HALF INCH (REF.)

BY

APPROV

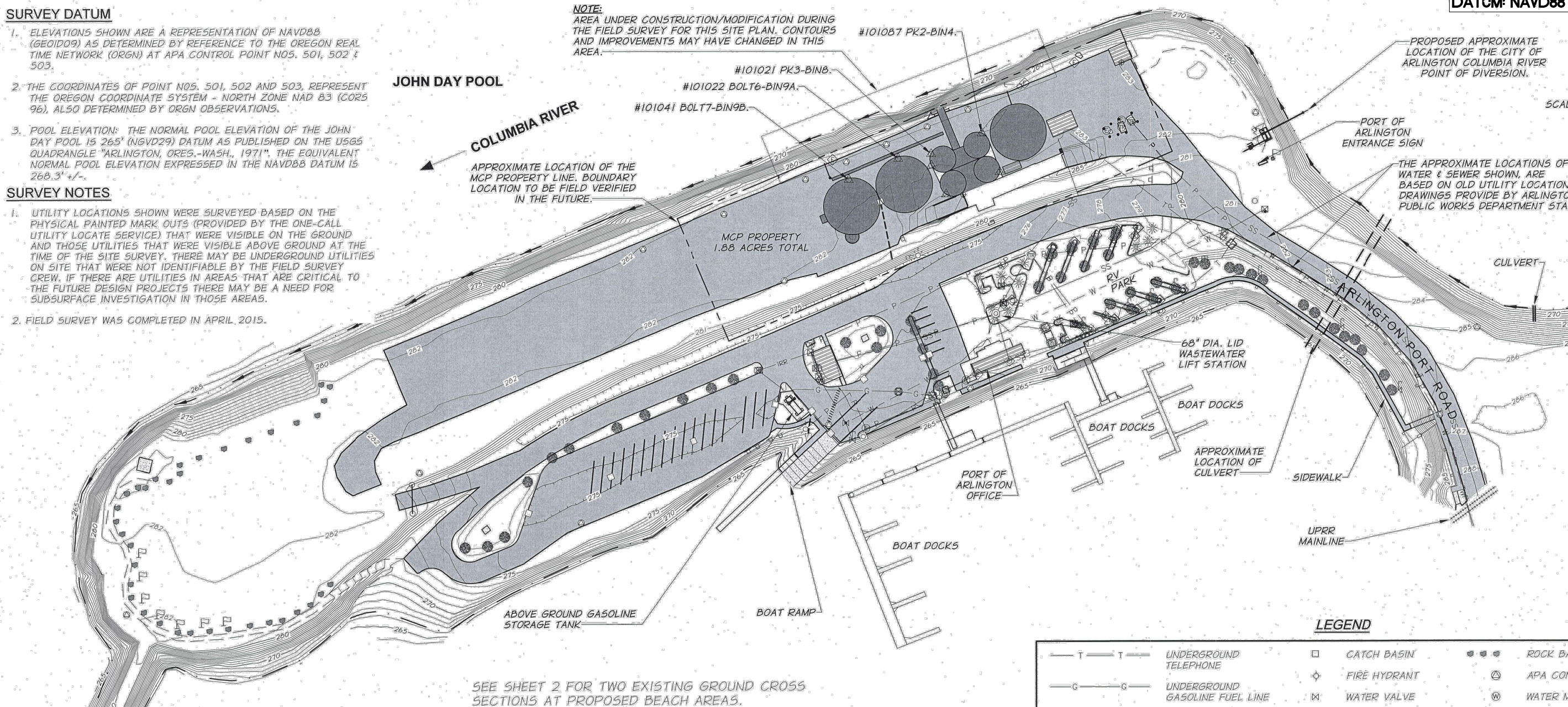
REVISION

DATE

NO

9/14/16

BID SET



SEE SHEET 2 FOR TWO EXISTING GROUND CROSS SECTIONS AT PROPOSED BEACH AREAS.

PORT OF ARLINGTON COORDINATES

Point #	Northing	Easting	Elevation	Description
150	749807.96	8277267.67	275.66	MAGNAIL
151	749892.77	8277470.07	275.01	MAGNAIL
201	749776.77	8277799.25	286.69	MAGNAIL
202	749929.45	8277057.80	281.98	MAGNAIL
203	749656.11	8276827.34	275.41	MAGNAIL
204	749766.53	8277107.64	275.08	MAGNAIL
501	750118.27	8277591.72	282.26	1/2\"IR W/RPG
502	749713.02	8276644.23	281.82	1/2\"IR W/RPG
503	749554.06	8276312.53	281.67	1/2\"IR W/RPG
504	750161.78	8277378.43	282.35	MAGNAIL
505	749875.30	8277841.40	285.07	1/2\"IR W/RPG

PORT OF ARLINGTON COORDINATES

Point #	Northing	Easting	Elevation	Description
101021	750072.01	8277224.09	284.57	PK3-BIN8
101022	750086.90	8277187.04	286.42	BOLT6-BIN9A
101041	750043.35	8277130.75	286.46	BOLT7-BIN9B
101087	750095.24	8277281.32	284.40	PK2-BIN4
210000	749965.15	8276897.95	282.12	MAGNAIL
210002	750004.46	8276989.91	282.45	MAGNAIL
210004	750043.76	8277081.84	282.59	MAGNAIL
210006	750063.43	8277127.82	282.72	MAGNAIL
210008	750083.04	8277173.79	282.60	MAGNAIL
210010	750102.70	8277219.77	282.47	MAGNAIL
210012	750122.35	8277265.73	282.48	MAGNAIL

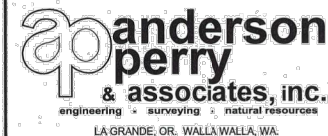
LEGEND

— T — T —	UNDERGROUND TELEPHONE	□	CATCH BASIN	●	ROCK B
— G — G —	UNDERGROUND GASOLINE FUEL LINE	⊕	FIRE HYDRANT	⊙	APA CON
— P — P —	UNDERGROUND POWER	⊗	WATER VALVE	⊙	WATER M
— SS —	SANITARY SEWER	⊗	WATER METER	⊗	IRRIGATI
— W —	WATER	⊗	HOSEBIBB	⊗	SIGN
— IRR —	IRRIGATION LINE	⊗	CLEANOUT	⊗	FLAG PO
—	EDGE OF ASPHALT	⊗	ELECTRIC RISER OR TRANSFORMER	⊗	FINISH P
—	CHAINLINK FENCE	⊗	LIGHT POLE	⊗	CONIFER
—	GUARD RAIL	⊗	GUY ANCHOR	⊗	DECIDUO
— 282 —	INDEX CONTOUR	⊗	ELECTRIC METER	⊗	MISCELL
—	DEPRESSION CONTOUR	⊗	TRANSFORMER	⊗	CONCRE
—	RAIL ROAD TRACKS	⊗	TELEPHONE RISER	⊗	ASPHAL
—	EDGE OF WATER	⊗	GASOLINE VALVE	⊗	BUILDING
—	PROPERTY LINE	⊗	BOLLARD	⊗	GRAIN S
		⊗	WOOD POST	⊗	SILO MO
		⊗		⊗	POINTS



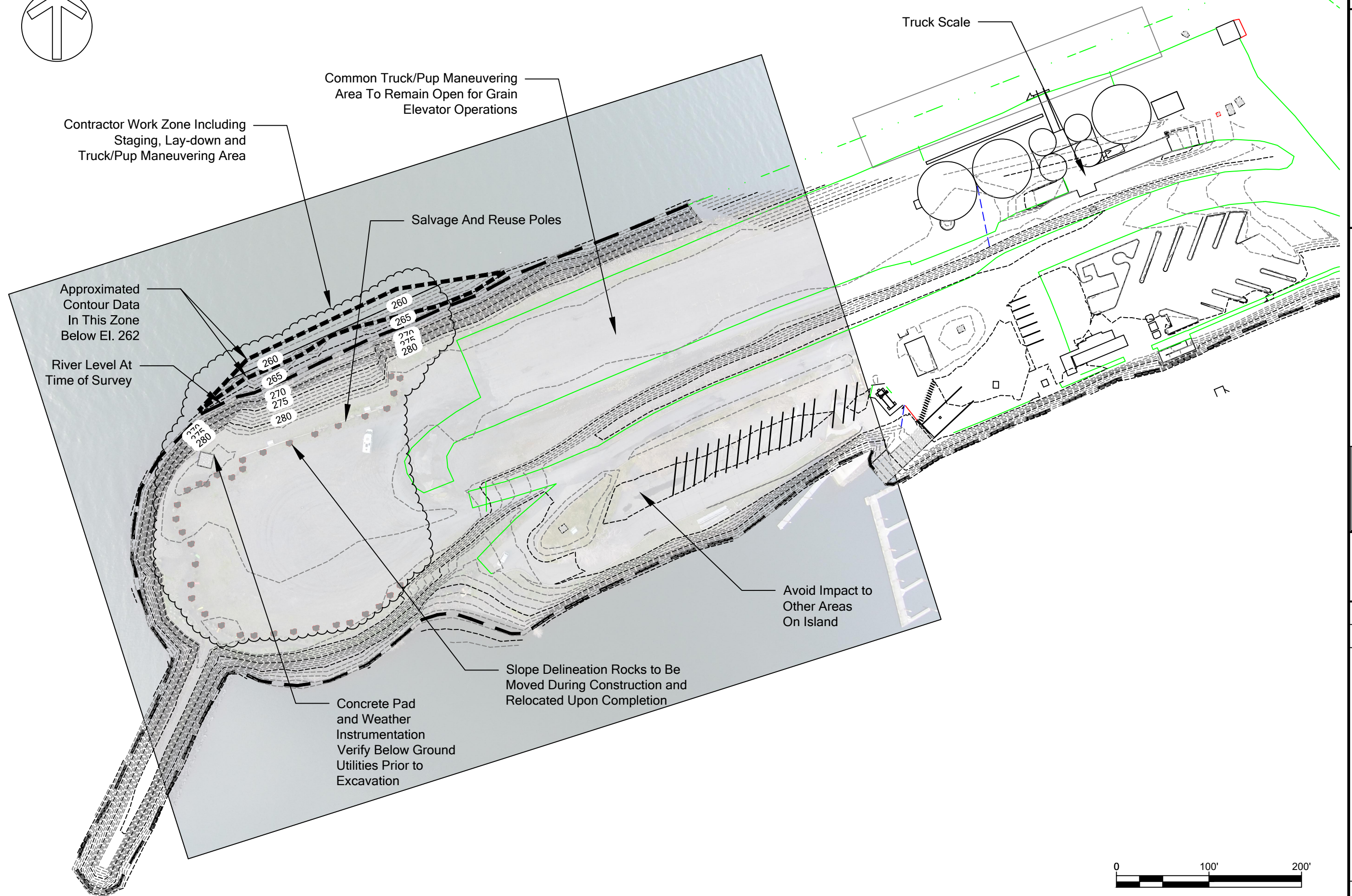
EXPIRES: 12-31-2016
SIGNED: 06-30-2015

REVISION	BY	DATE	HORIZ. SCALE 1" = 60'	VERT. SCALE 1 FOOT C.I.
DESIGNED BY			JOB NUMBER 41-08	DATE 2015
DRAWN BY R. HAYS			ACAD FILE: PORT ARL Peninsula Base063015.dwg	
REMOVED BY I. MADSEN/M. POSADA			COPYRIGHT 2015 BY ANDERSON PERRY & ASSOC. INC.	

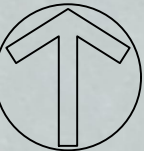


PORT OF ARLINGTON
PENINSULA BASE MAPPING

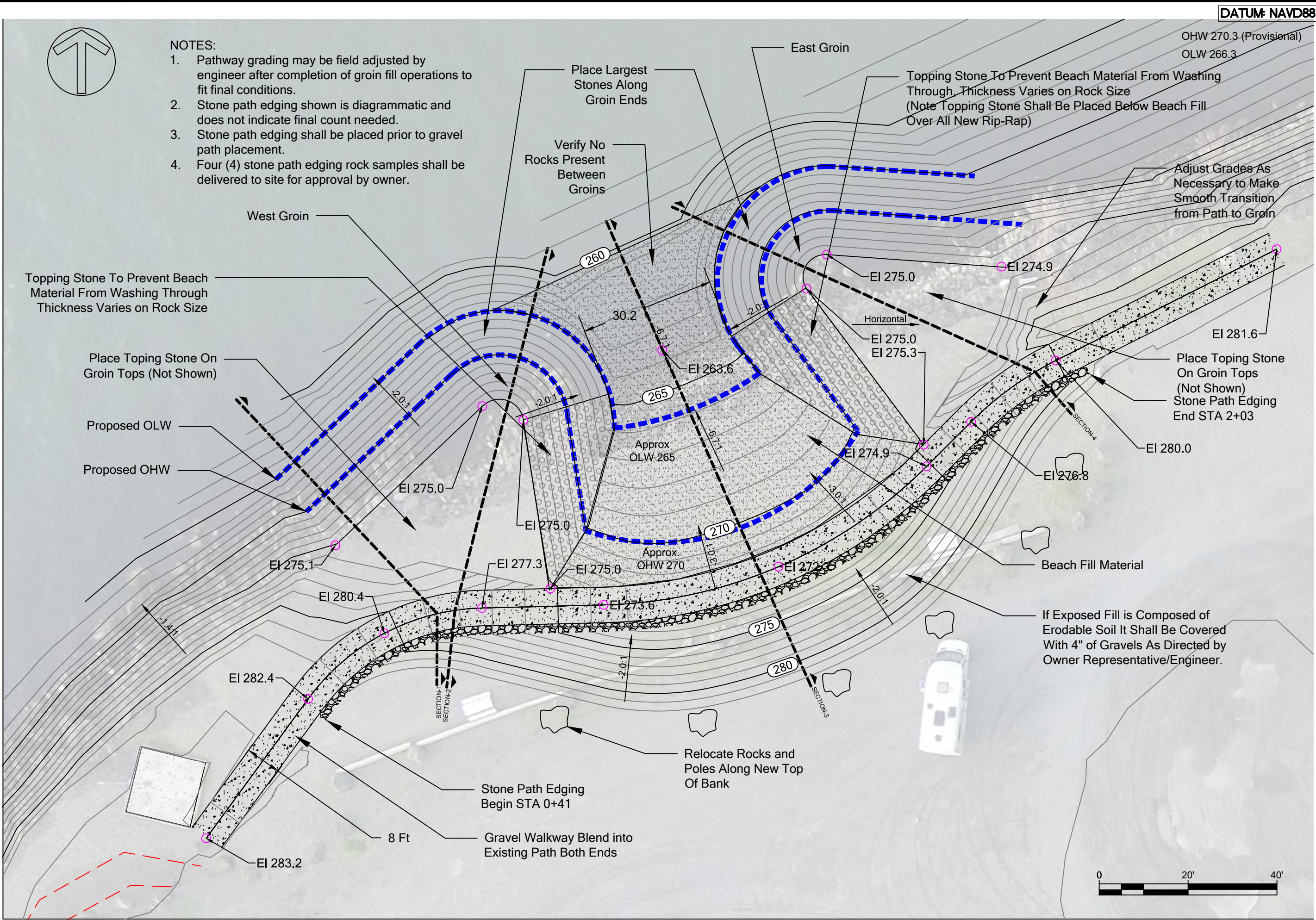
EXISTING SITE PLAN



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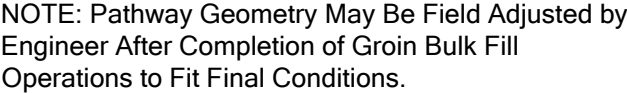


- NOTES:
1. Pathway grading may be field adjusted by engineer after completion of groin fill operations to fit final conditions.
 2. Stone path edging shown is diagrammatic and does not indicate final count needed.
 3. Stone path edging shall be placed prior to gravel path placement.
 4. Four (4) stone path edging rock samples shall be delivered to site for approval by owner.



DATUM: NAVD88

SHEET		4	11
RIVER ACCESS		Port of Arlington	
		100 Port Island Road	
		Arlington Oregon 97012	
		PROJECT Port of Arlington-River Access	
		DATE: 9/14/2016	
		Flowing solutions	
		Flowing Solutions 3300 SW 10th Avenue Portland, OR 97225 Phone: (503) 297-6311 Fax: (503) 297-6053	
		GRADING PLAN	
		Andrew J. Jansky REGISTERED PROFESSIONAL ENGINEER 19212 OREGON EXPIRATION DATE: 09/30/17	
		SCALE: 1"=20'	
		PLAN	
		HORIZ.	
		VERT.	
		PROFILE	
		ONE HALF INCH (REF)	
		BY	
		APPROD	
		REVISION	
		NO	
		DATE	
		3/14/16	
		BID SET	

**DATUM: NAVD88**

5 OF 11

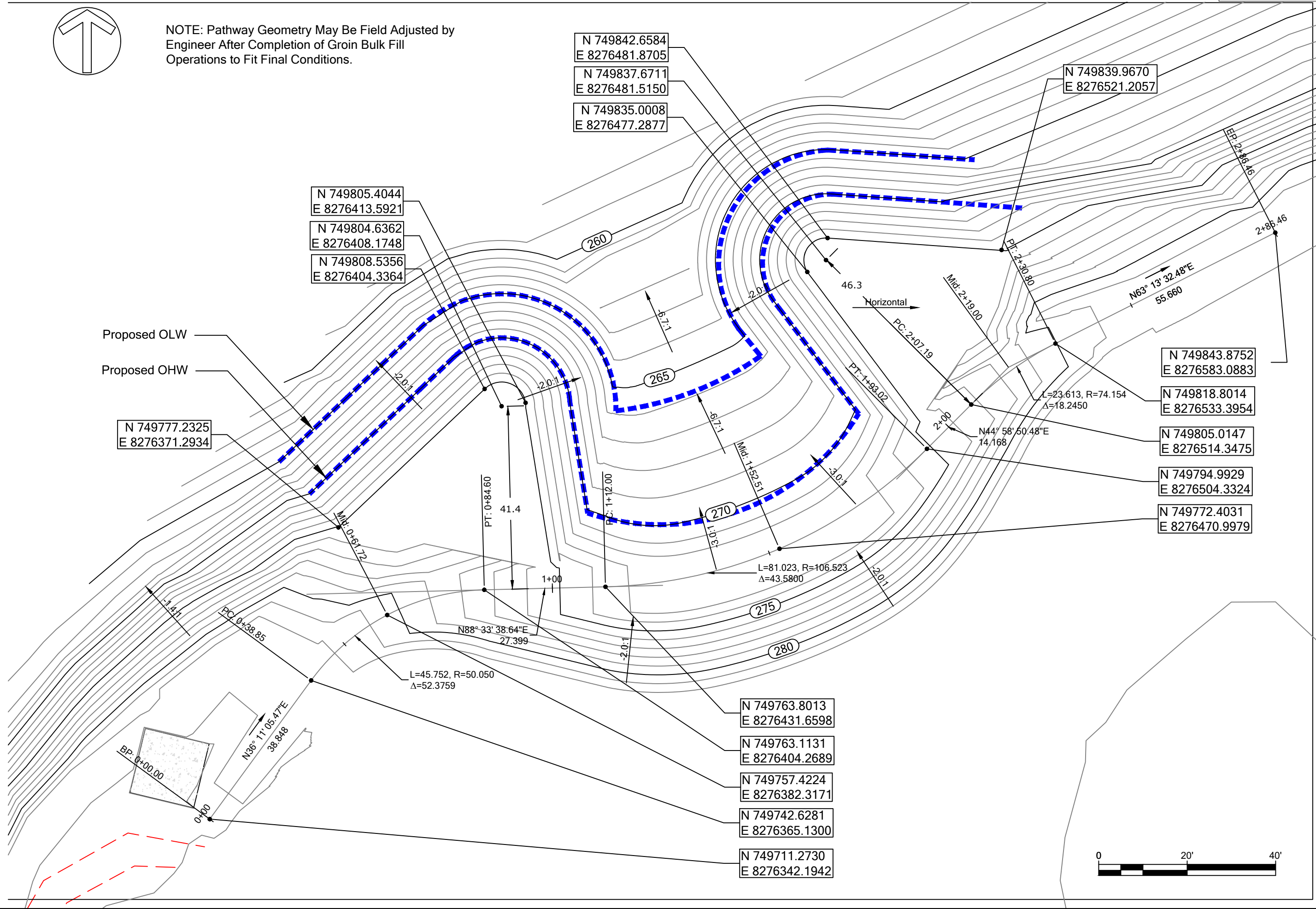
RIVER ACCESS
Port of Arlington
100 Port Island Road
Arlington Oregon 97812

Flowing solutionsSM

Flowing Solutions
3305 SW 87th St.
Portland, OR 97219
Phone: (503) 255-8800
Fax: (503) 255-8801

Andrew Jansky

NO.	DATE	REVISION	BY	APPROV.	SCALE
	9/14/16	BID SET			1"=20'
					PLAN
					HORIZ.
					PROFILE
					VERT.
					ONE HALF INCH (REF.)

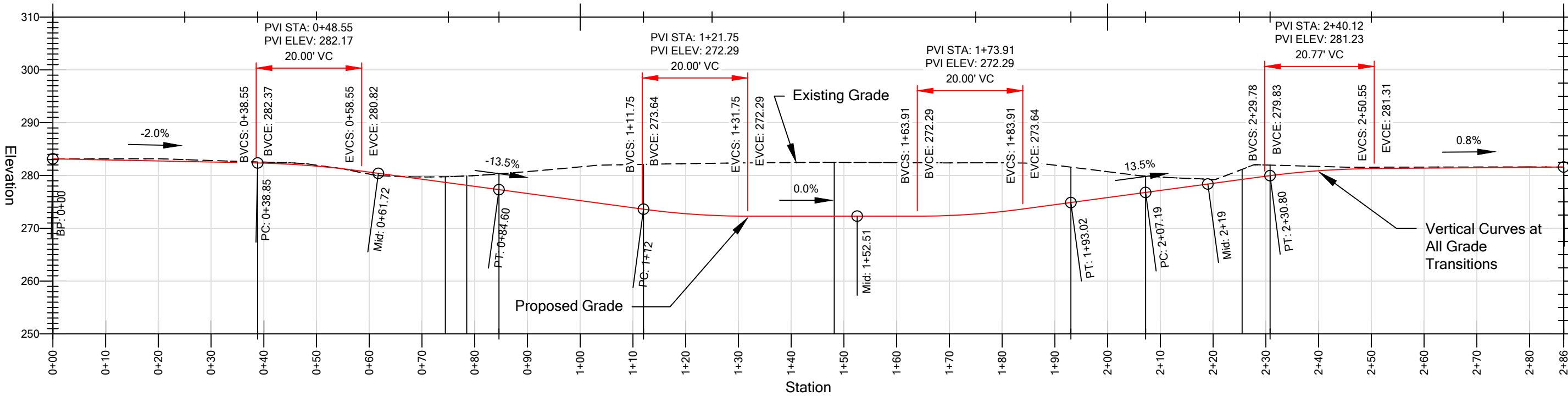


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NOTE: Pathway Geometry May Be Field Adjusted by
Engineer After Completion of Groin Bulk Fill
Operations to Fit Final Conditions.

DATUM: NAVD88

Pathway Alignment



6

11

RIVER ACCESS

Port of Arlington

100 Port Island Road

Arlington Oregon 97012

DATE: 9/14/2016

PROJECT: Port of Arlington-River Access

TRAIL PROFILE

Flowing solutions

Andrew J. Jansky

REGISTERED PROFESSIONAL ENGINEER

19212

OREGON

EXPIRATION DATE: 06/30/17

SCALE

PLAN

PROFILE

ONE HALF INCH (REF)

NO.

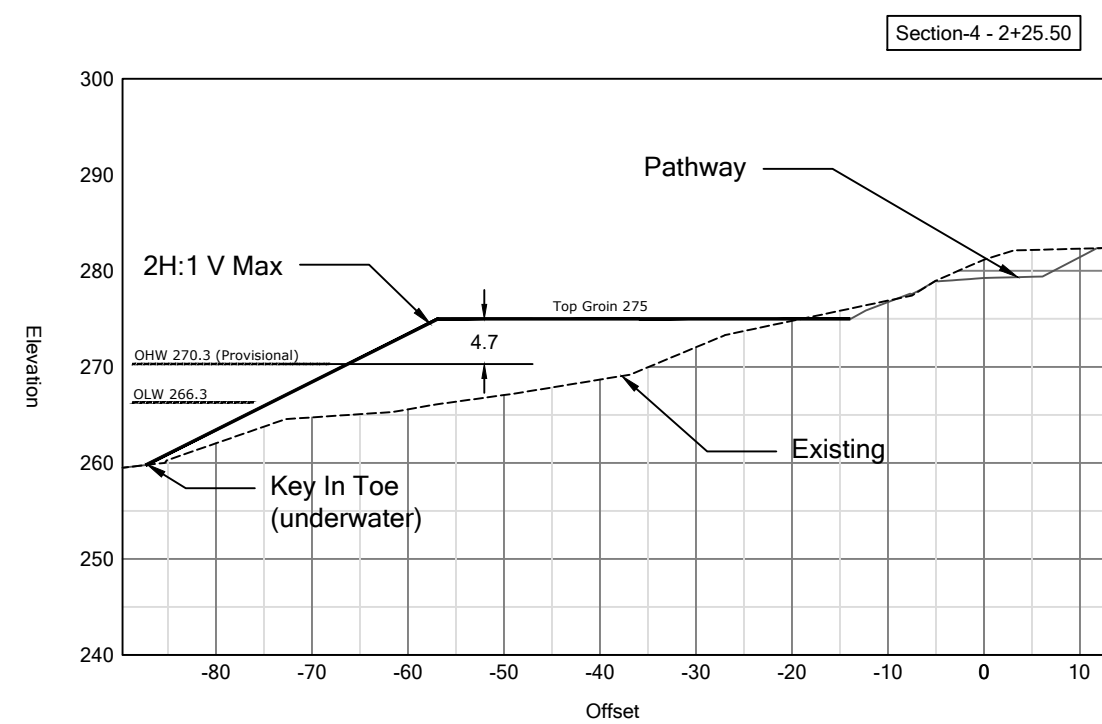
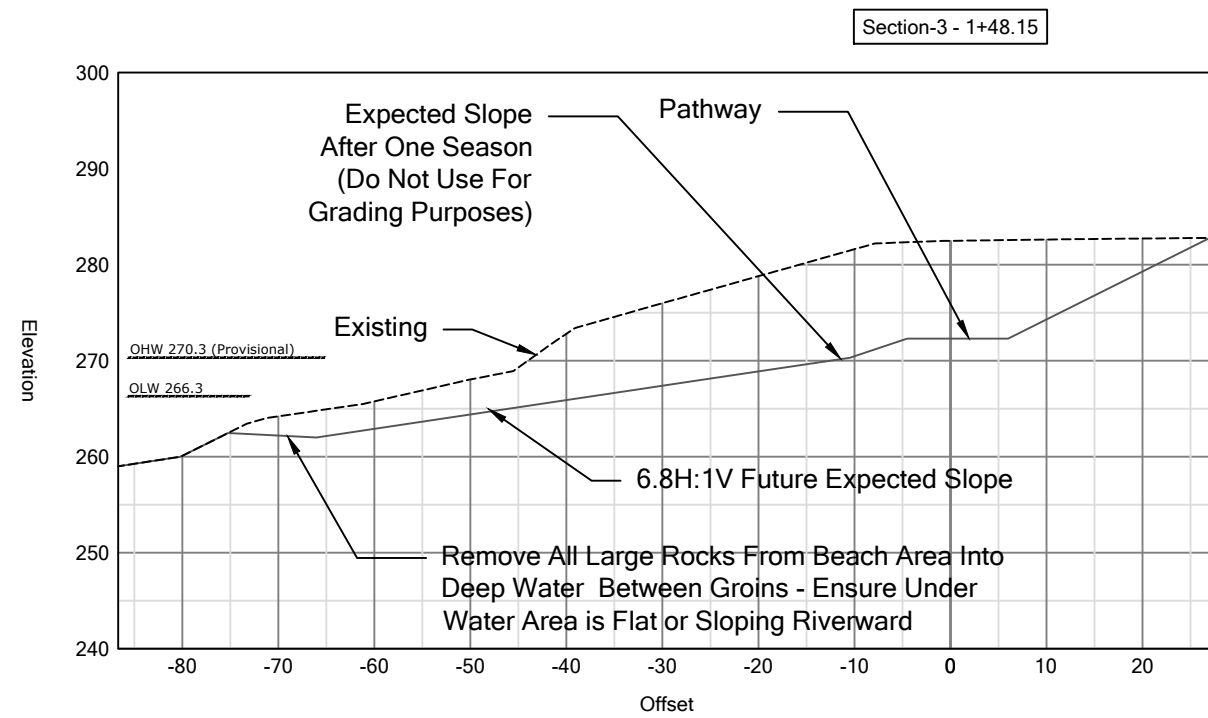
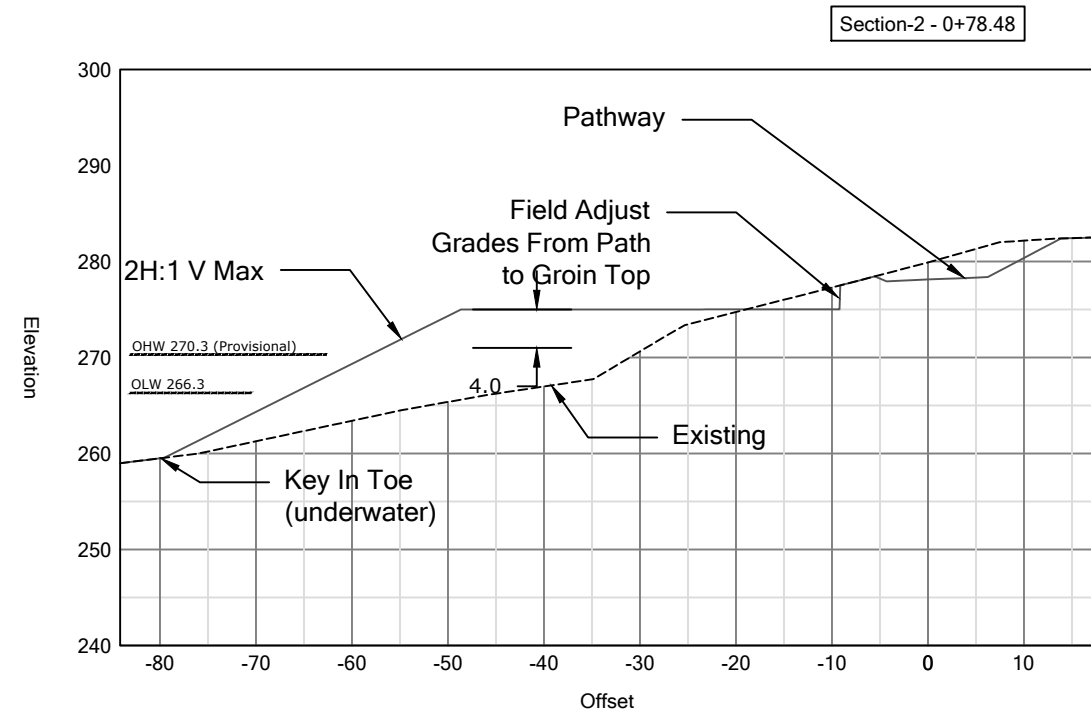
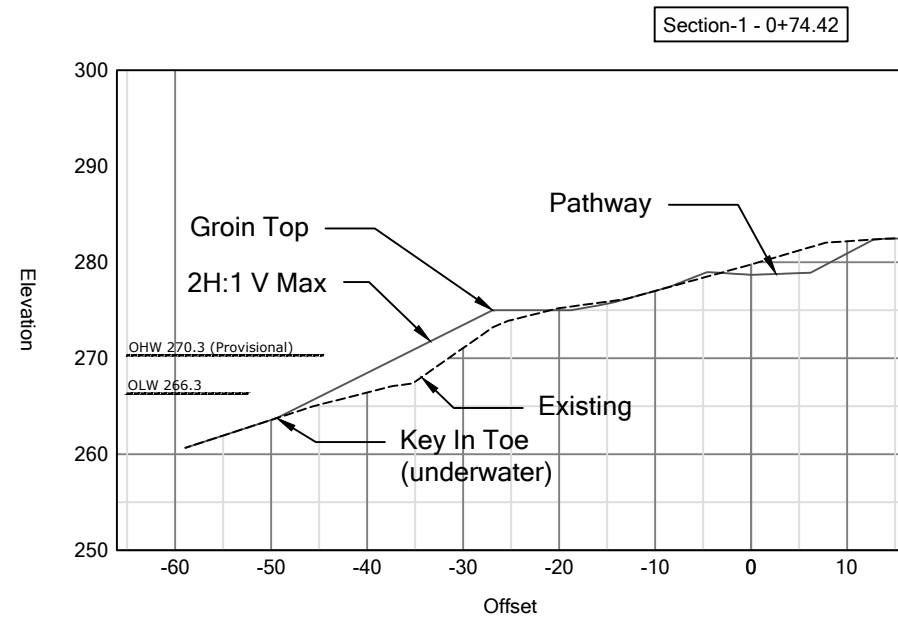
DATE

BY

REVISION

BID SET

9/14/16

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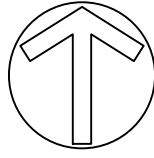
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	9/14/16					
						PLAN
						HORIZ. 1"=20'
						PROFILE
						VERT. 1"=20'
						ONE HALF INCH REF. 



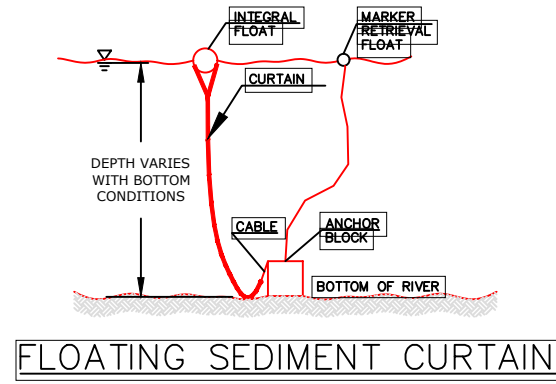
Scale 1"=20'



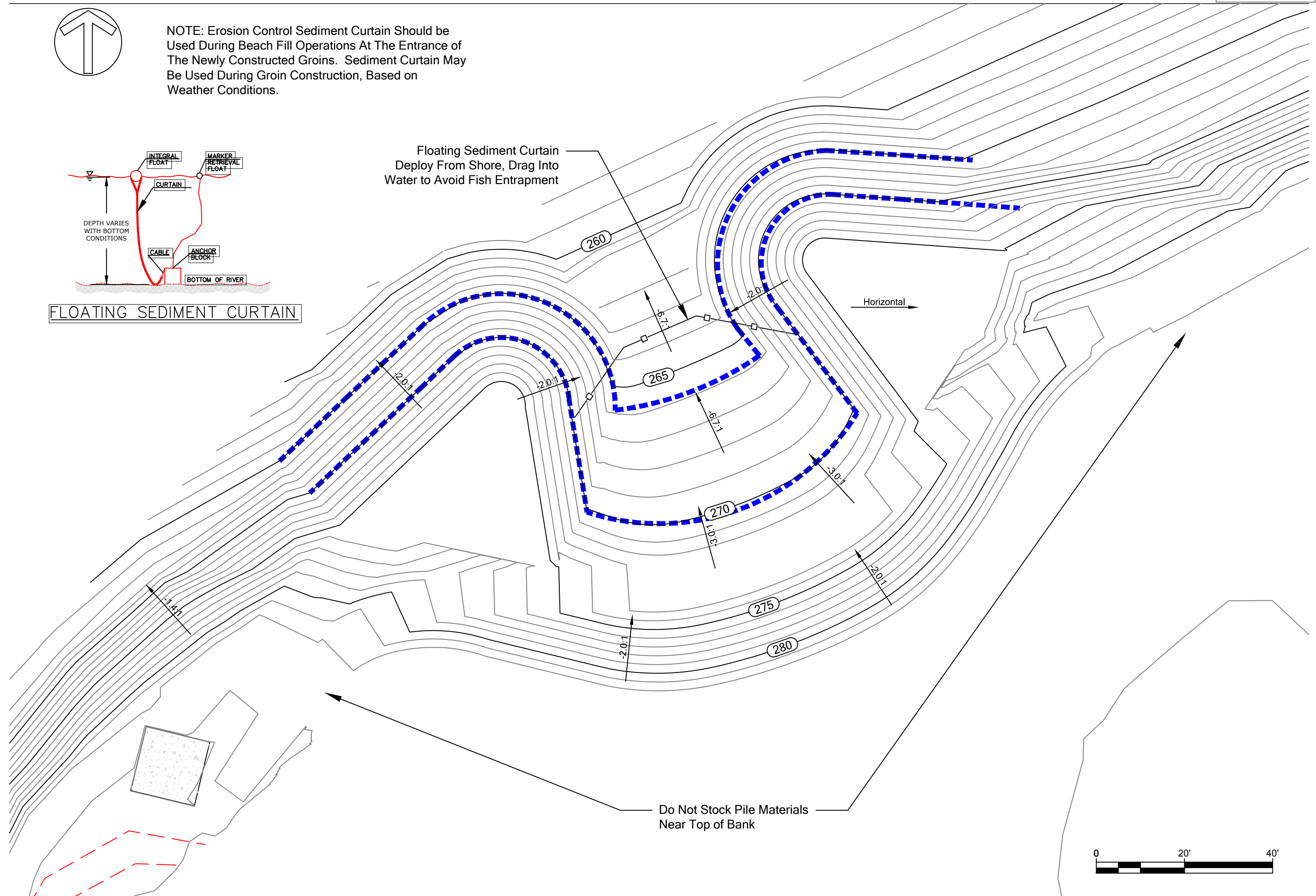
10 OF 11



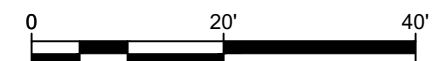
NOTE: Erosion Control Sediment Curtain Should be Used During Beach Fill Operations At The Entrance of The Newly Constructed Groins. Sediment Curtain May Be Used During Groin Construction, Based on Weather Conditions.



Floating Sediment Curtain
Deploy From Shore, Drag Into
Water to Avoid Fish Entrapment



- Do Not Stock Pile Materials Near Top of Bank



RIVER ACCESS
Port of Arlington
100 Port Island Road
Arlington Oregon 97812
PROJECT Port of Arlington

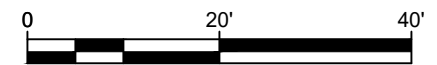
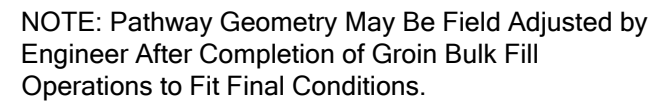
Flowing solutionsSM

Flowing Solutions
3305 SW 87th Avenue
Portland, OR 97225
Phone: (503) 297-6163
Fax: (503) 297-6053



NO.	DATE	REVISION	BY	APPROD	SCALE
	9/14/16	BID SET			1"=20'
					PLAN
					HORIZ.
					PROFILE
					VERT.
					ONE HALF INCH (REF.)

11 OF 11



RIVER ACCESS
Port of Arlington
100 Port Island Road
Arlington Oregon 97812

PROJECT Port of Arlington

Flowing solutions
SM

CONTOUR OVERLAY

Flowing Solutions
3305 SW 87th
Portland, OR
Phone: (503)
Fax: (503) 23



No.	Date	Bid Set	Revision	By	A/R/D	Scale
	9/14/16					PLAN 1"=20'
						HORIZ
						PROFILE
						VERT.
						ONE HALF INCH (REF.) 