



US Army Corps
of Engineers
Seattle District



Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence – ERRATUM/REVISION

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (206) 258-1371
Attn: Debbie Knaub, Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6068
Attn: SEA Program, Federal Permit
Coordinator

Erratum Date: March 10, 2016

Public Notice Date: November 25, 2013

Expiration Date: December 25, 2013

Reference No.: NWS-2013-1049

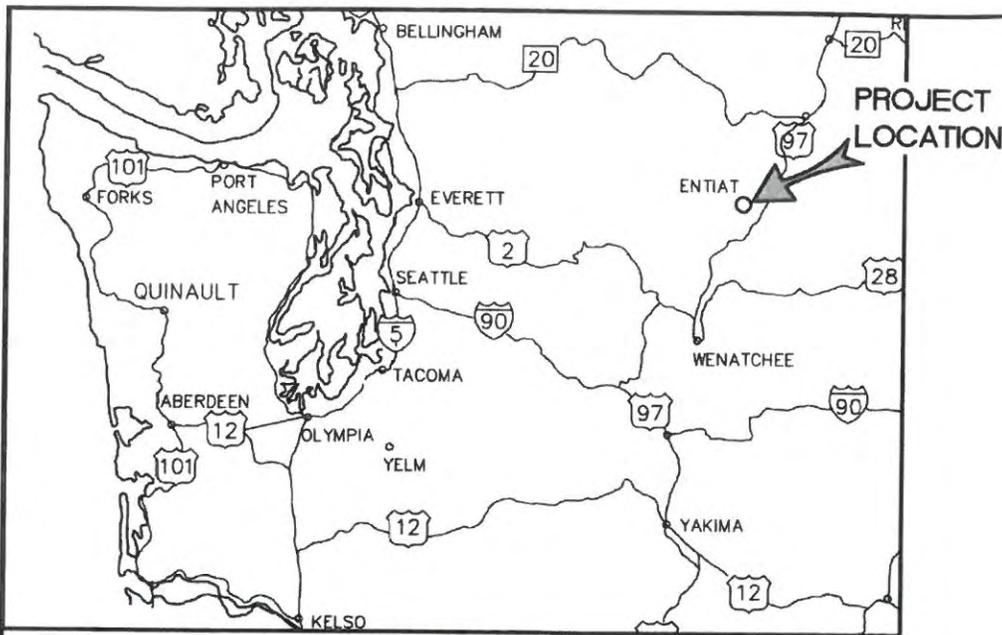
Name: Entiat, City of (Marina)

REVISION: This revises the proposed mitigation on a U.S. Army Corps of Engineers/Ecology Joint Public Notice dated November 25, 2013.

The revised information is as follows: The applicant has proposed additional mitigation including an expanded planting area and a shoreline habitat enhancement area that is waterward of the Ordinary High Water Mark of the Columbia River.

All other information shown on Public Notice NWS-2013-1049 remains unchanged.

S09 T25N R21E



WASHINGTON KEY MAP



PROJECT SITE
 LAT: 47° 40' 41.33"N
 LONG: 120° 12' 16.46"W
 SECTION 09 T25N, R21E

COLUMBIA RIVER
 (LAKE ENTIAT)

FLOW



WATER LEVELS (NGVD29)

NORMAL HIGH OPERATING POOL	+707.0'
ORDINARY HIGH WATER	+706.5'
MIN OPERATING POOL	+703.0'

NWS-2013-1049

PURPOSE: CONSTRUCT PUBLIC MARINA

LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W

DATUM: NGVD29

ADJACENT PROPERTY OWNERS:

1. CITY OF ENTIAT
2. CHELAN COUNTY PUD

**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA**

VICINITY MAP

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)

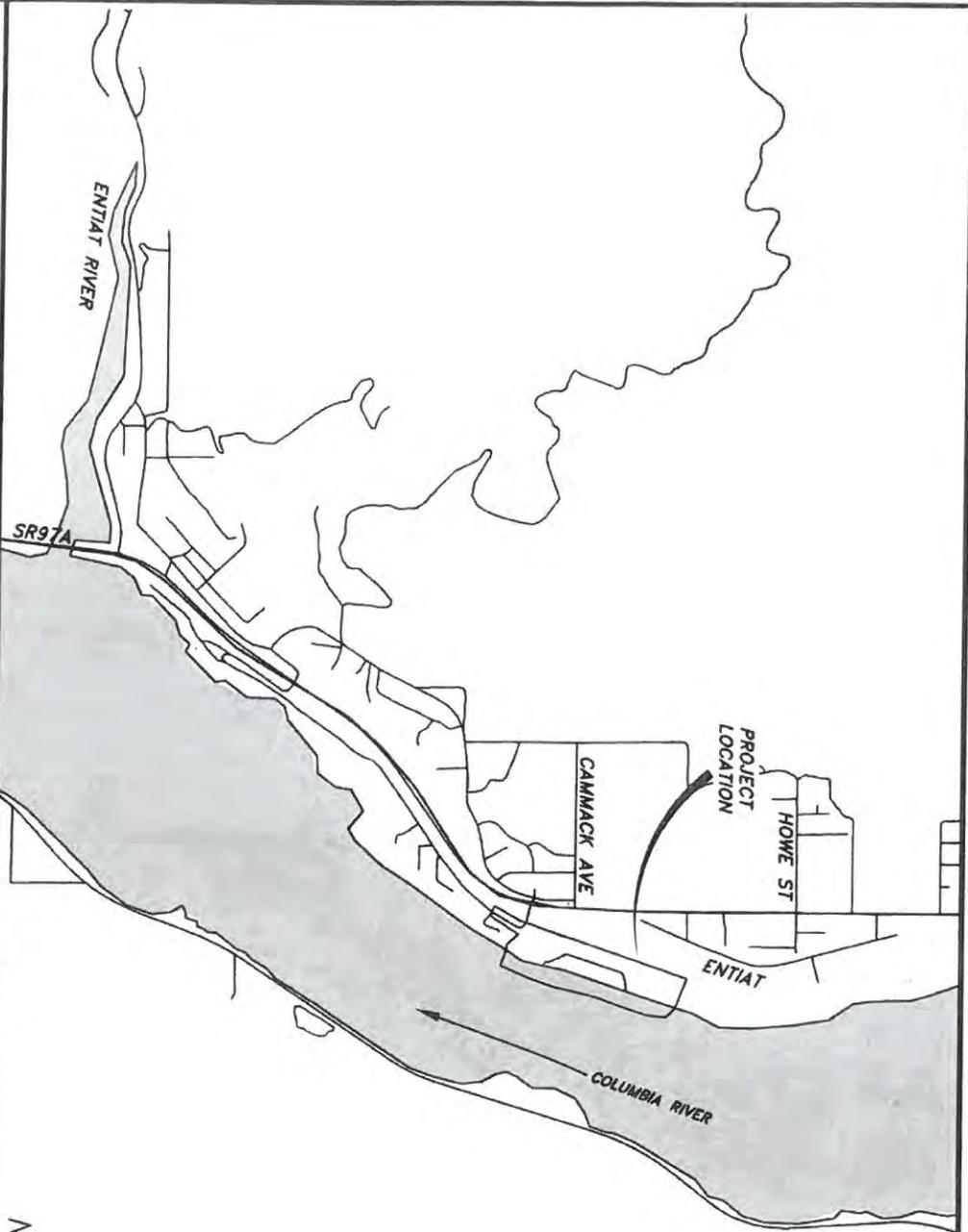
AT: ENTIAT, WA

COUNTY: CHELAN

**REVISED
 1/18/2016**

SHEET 1 OF 27

DATE: 9/11/13



NWS-2013-1049



AREA MAP

T. 28 N. R. 24 E. W.M. SEC. 7

HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NGVD 1929
 (1947 SUPPLEMENTAL ADJUSTMENT)

ADJACENT PROPERTY OWNERS:
 P.U.D. NO. 1 OF CHELAN COUNTY

APPLICATION: CITY OF ENTIAT

GRETTE ASSOCIATES
 151 S. WORTHEN ST
 WENATCHEE, WA 98801

PROPOSED: ENTIAT MARINA
 AND PARKING AREA

WATERBODY: COLUMBIA RIVER
 NEAR: ENTIAT
 COUNTY: CHELAN
 STATE: WASHINGTON

Erlandsen
 SURVEYING | PLANNING | ENGINEERING | GIS

BREWSTER (509) 689-2529
 CHELAN (509) 682-4189
 E. WENATCHEE (509) 884-2562

TOLL FREE (800) 732-1781

SHT 2
 OF 27

DRAWN BY: CF

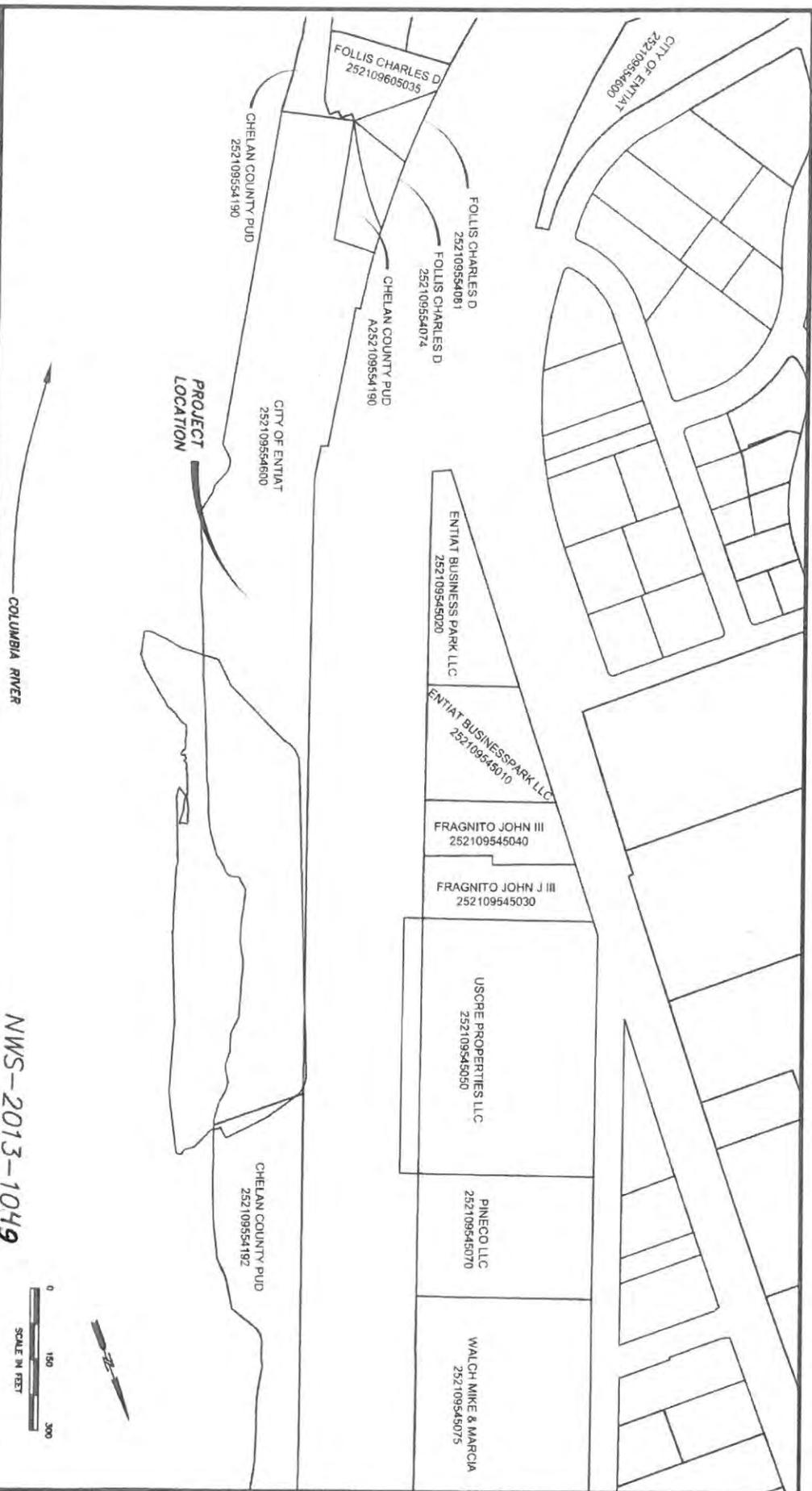
DATE: 9/11/2013 REVISED 1/18/2016

SCALE: AS NOTED

LAYOUT: --

FILE NO.: 20110165-E3.DWG

JOB NO.: 20110165.0000



ADJACENT PROPERTY OWNERS

HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NGVD 1929
 (1947 SUPPLEMENTAL ADJUSTMENT)
 ADJACENT PROPERTY OWNERS:
 P.L.D. NO. 1 OF CHELAN COUNTY

APPLICATION: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA AND PARKING AREA
 WATERBODY: COLUMBIA RIVER
 NEAR: ENTIAT COUNTY: CHELAN STATE: WASHINGTON

T. 28 N. R. 24 E. W.M. SEC. 7



BREWSTER (509) 689-2529
 CHELAN (509) 682-4189
 E. WENATCHEE (509) 894-2562

SHT 3
 OF 27

DRAWN BY: CF

DATE: 9/11/2013 REVISED 1/18/2016

SCALE: AS NOTED

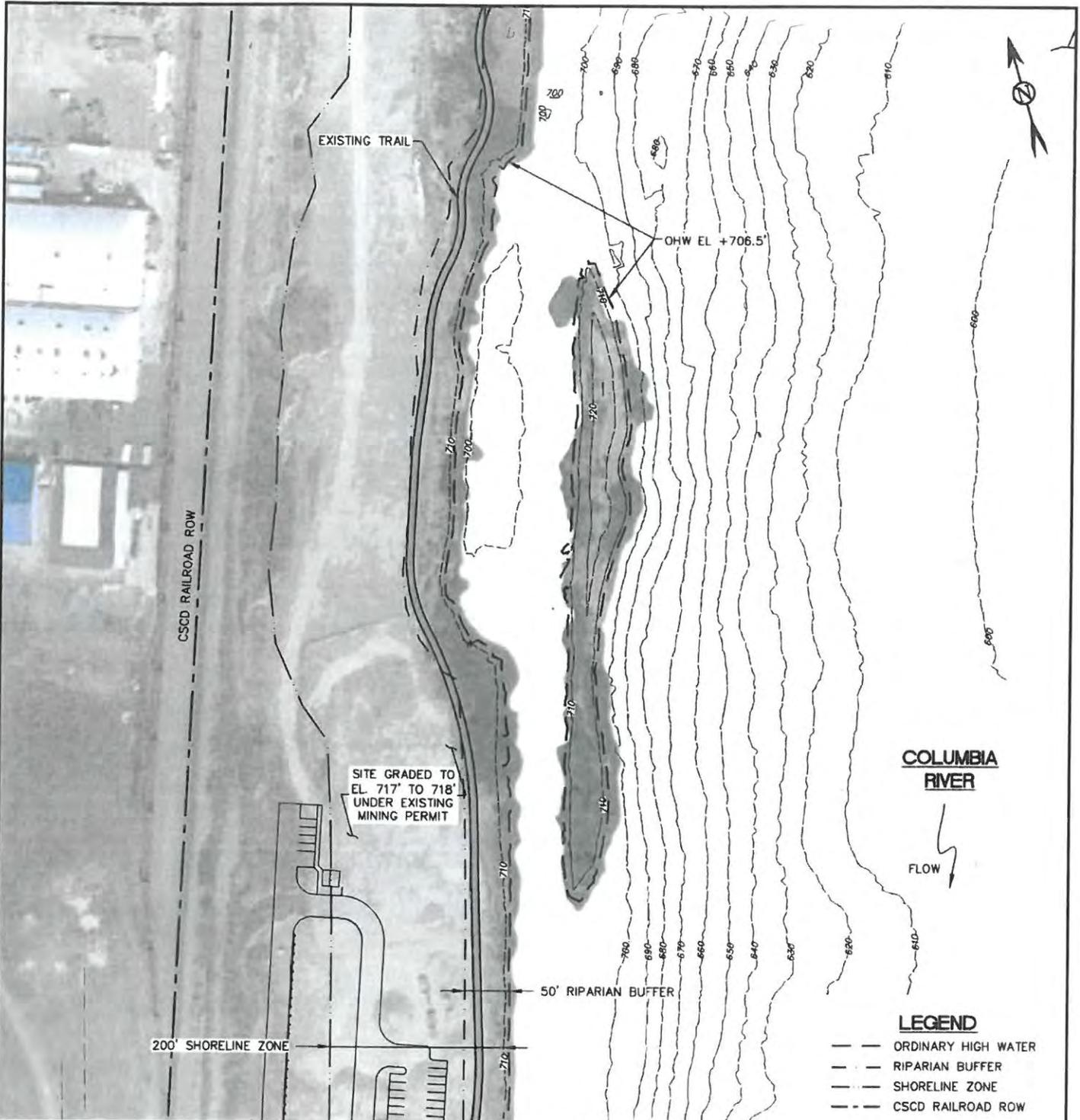
LAYOUT: -

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NWS-2013-1049





COLUMBIA RIVER

FLOW

LEGEND

- ORDINARY HIGH WATER
- - - RIPARIAN BUFFER
- SHORELINE ZONE
- - - CSD RAILROAD ROW

NOTES:

1. SURVEY CONDUCTED BY ERLANDSEN, NOV. 2011.
2. UPLANDS SHOWN AT UNIFORM 717' TO 718' POST-MINING ELEVATION.
3. CONTOUR INTERVAL SHOWN AT 10 FT.

EXISTING SITE PLAN



WATER LEVELS (NGVD29)

NORMAL HIGH OPERATING POOL	+707.0'
ORDINARY HIGH WATER	+706.5'
MIN OPERATING POOL	+703.0'

NWS-2013-1049

PURPOSE: CONSTRUCT PUBLIC MARINA

LOCATION: 47° 40' 41.33"N
120° 12' 16.46"W

DATUM: NGVD29

ADJACENT PROPERTY OWNERS:

1. CITY OF ENTIAT
2. CHELAN COUNTY PUD

**CITY OF ENTIAT
ENTIAT TRAIL AND MARINA**

EXISTING SITE PLAN

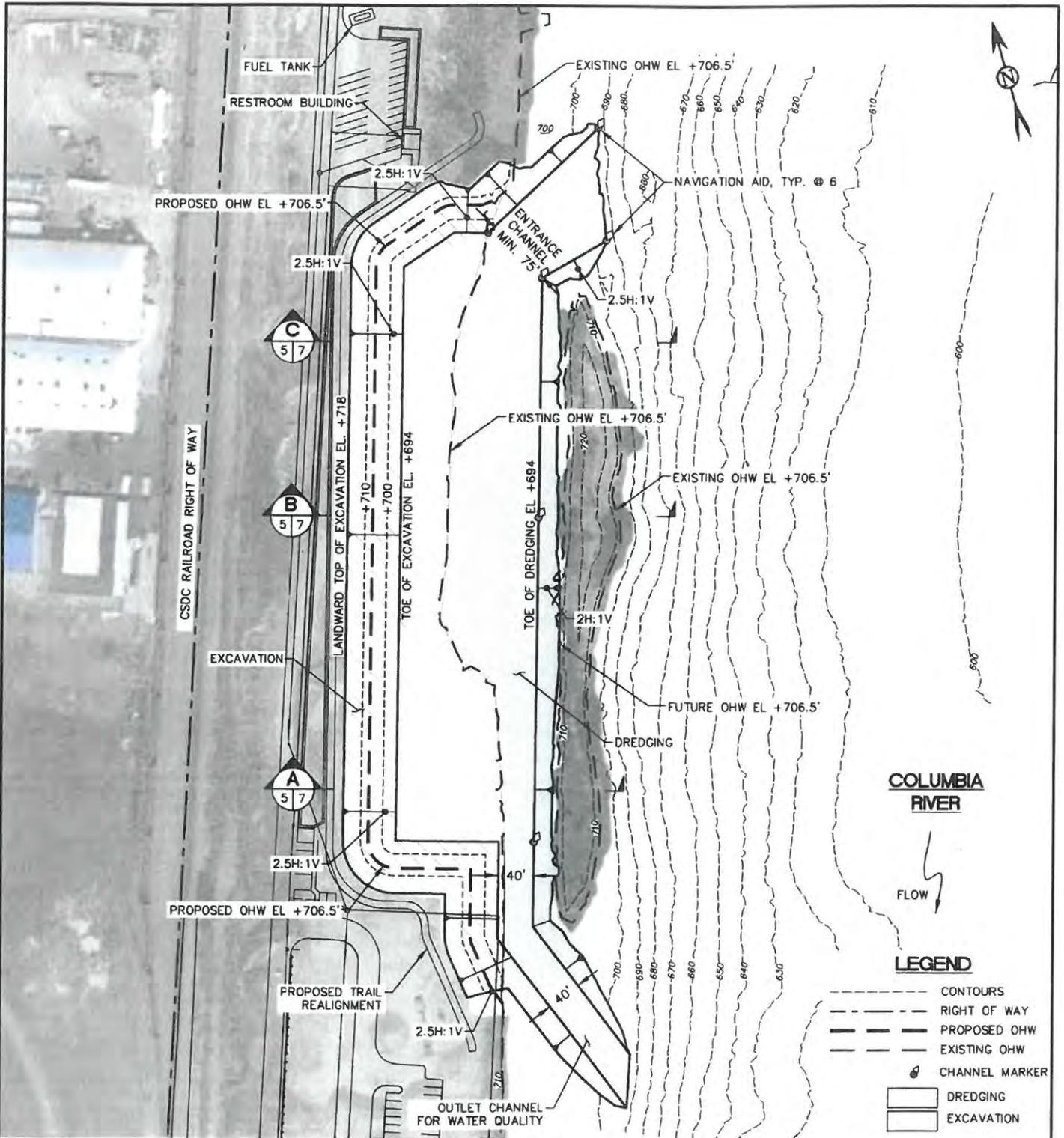
APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN

**REVISED
1/18/2016**

SHEET 4 OF 27 DATE: 9/11/13



NOTES:

1. UPLAND IMPROVEMENTS SHOWN FOR REFERENCE ONLY.
2. CONTOUR INTERVAL SHOWN AT 10 FT.

NWS-2013-1049

SITE PLAN



WATER LEVELS (NGVD29)

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ADJACENT PROPERTY OWNERS:

1. CITY OF ENTIAT
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**CITY OF ENTIAT
ENTIAT TRAIL AND MARINA
PROPOSED DREDGING AND
EXCAVATION PLAN**

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)

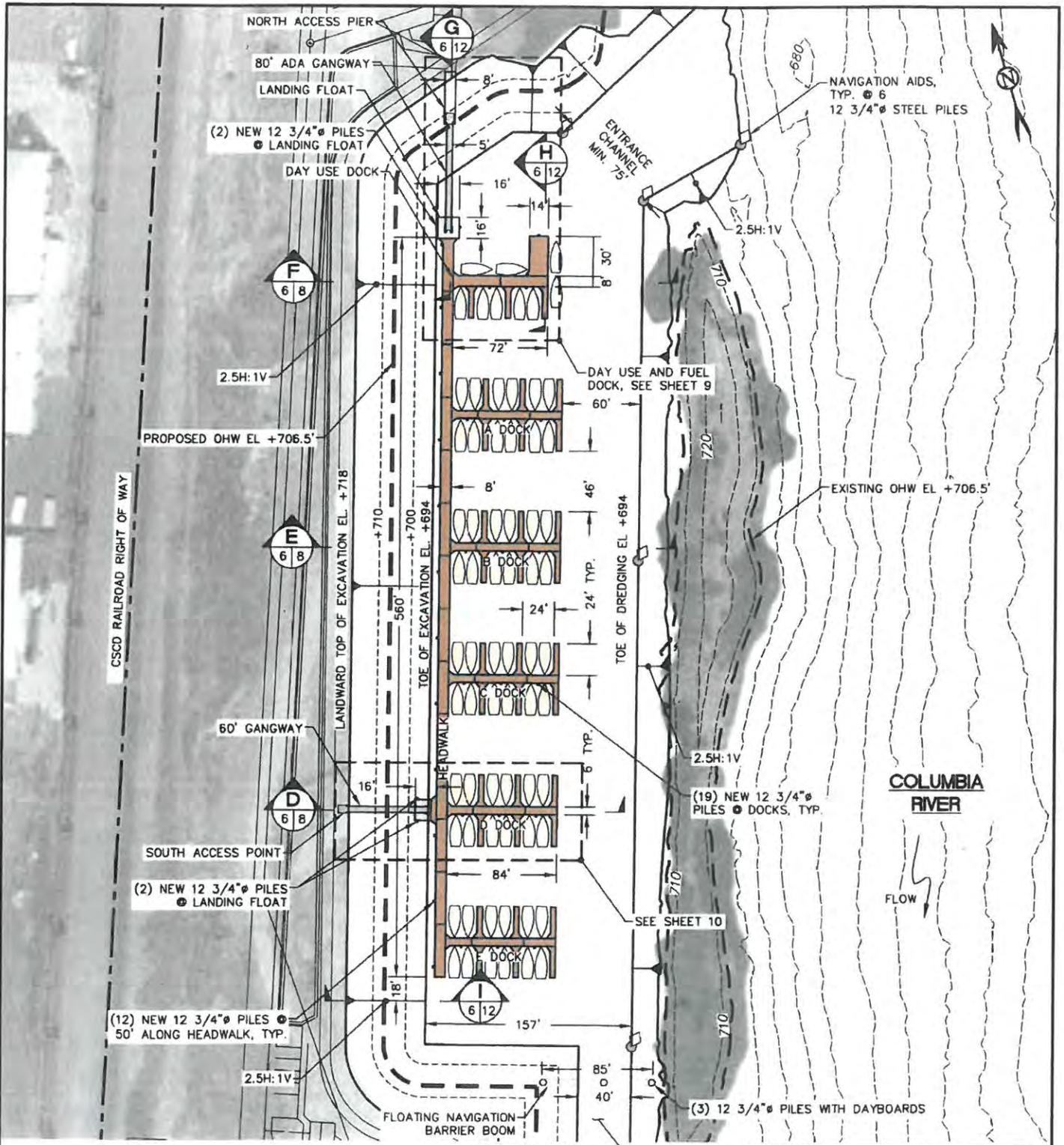
AT: ENTIAT, WA

COUNTY: CHELAN

**REVISED
1/18/2016**

SHEET 5 OF 27

DATE: 9/11/13



NWS-2013-1049

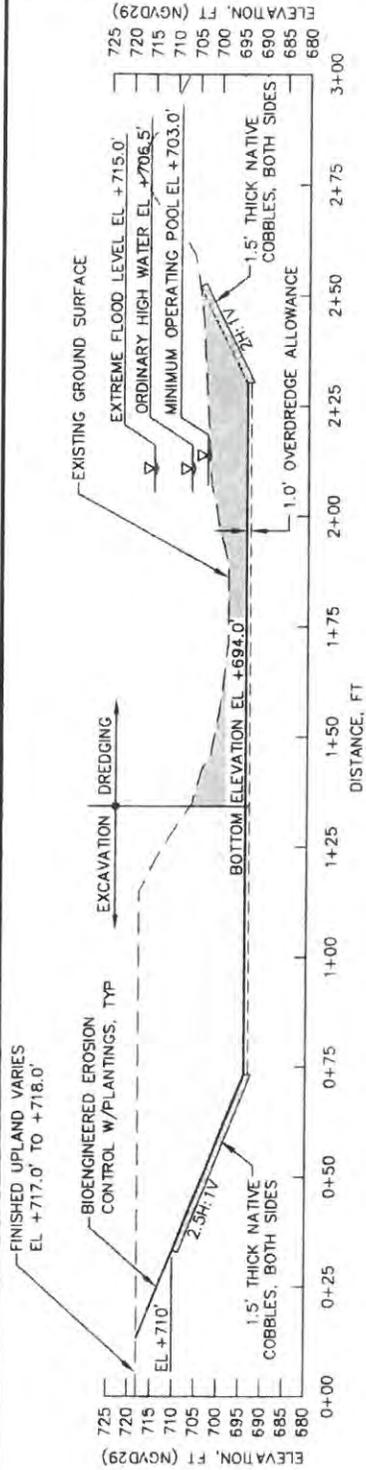


WATER LEVELS (NGVD29)	
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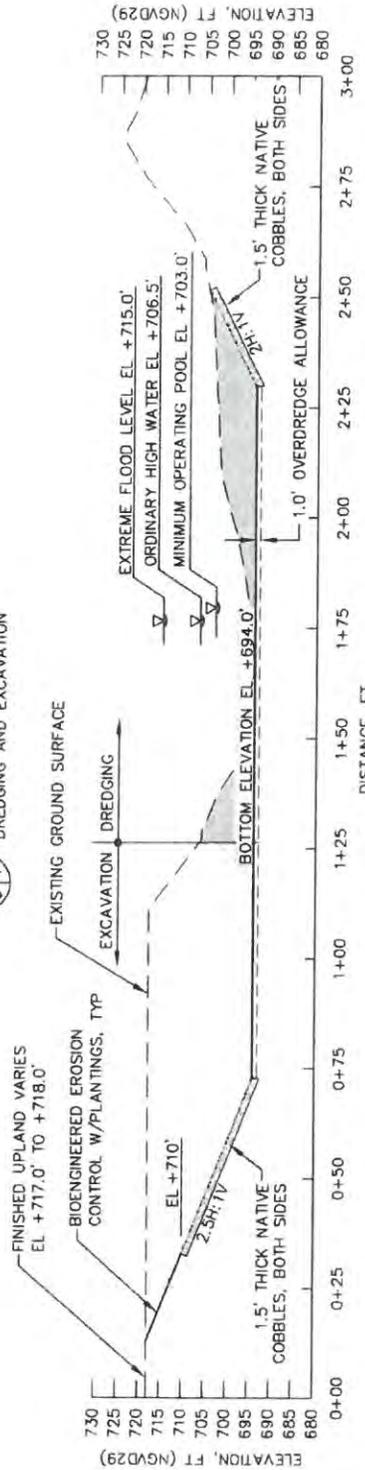
PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
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DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
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CITY OF ENTIAT
ENTIAT TRAIL AND MARINA
PROPOSED MARINA PLAN
 APPLICATION BY: CITY OF ENTIAT

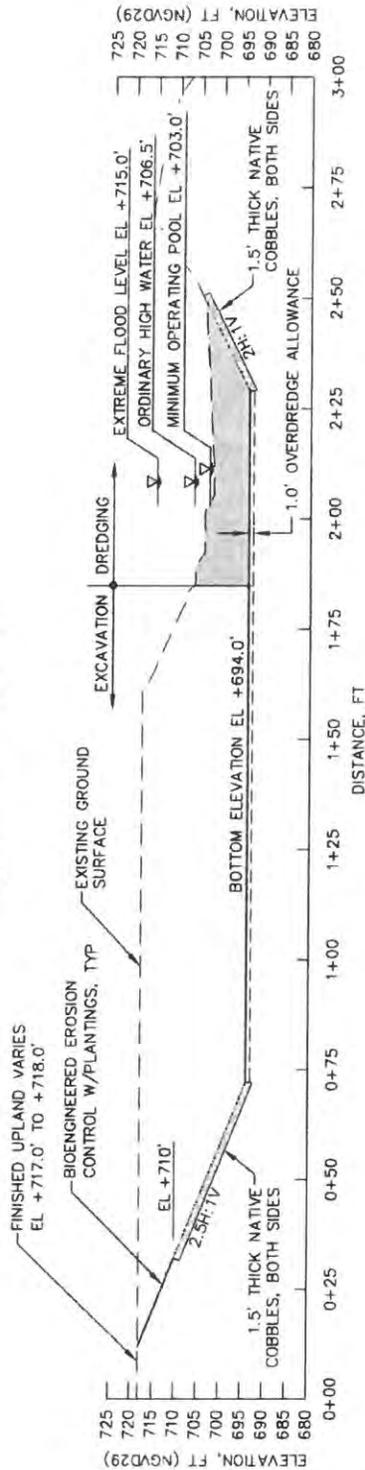
PROPOSED: ENTIAT MARINA, PARKING AREA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN
REVISION: 1/18/2016
SHEET 6 OF 27 **DATE:** 9/11/13



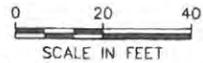
SECTION A
5/7
DREDGING AND EXCAVATION



SECTION B
5/7
DREDGING AND EXCAVATION



SECTION C
5/7
DREDGING AND EXCAVATION



NOTES:

- EXISTING UPLANDS TO BE EXCAVATED TO EL +718.0. EXISTING CONTOURS IN UPLANDS AND UPLAND IMPROVEMENTS NOT SHOWN.

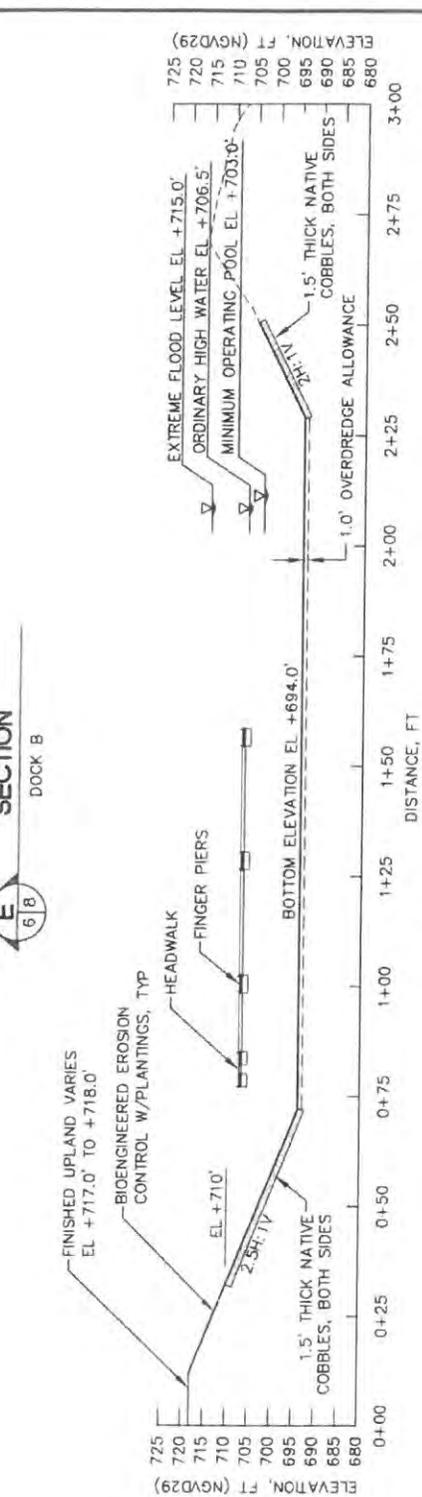
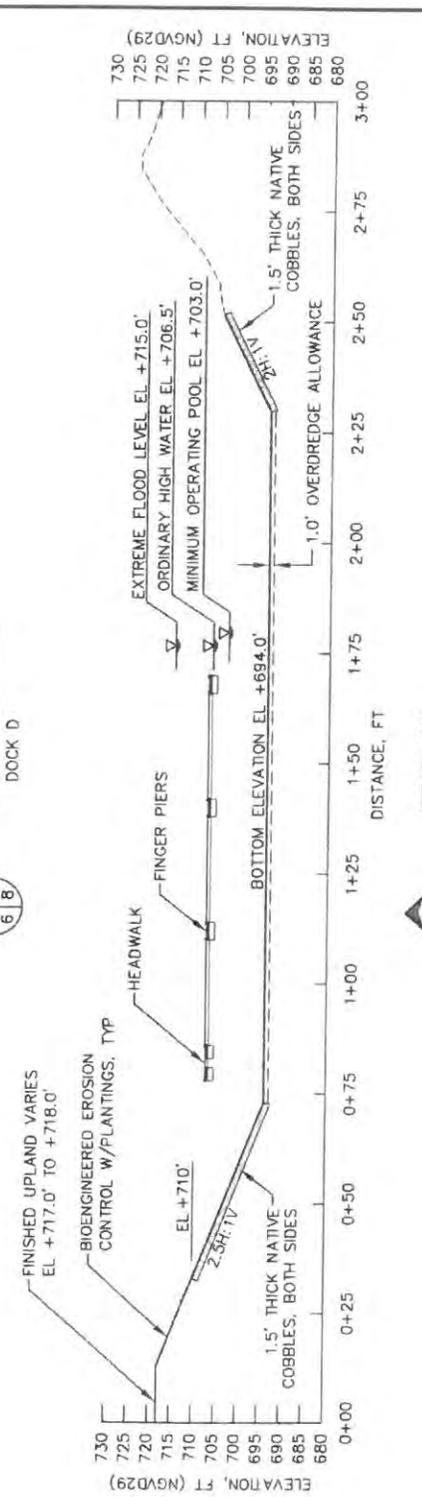
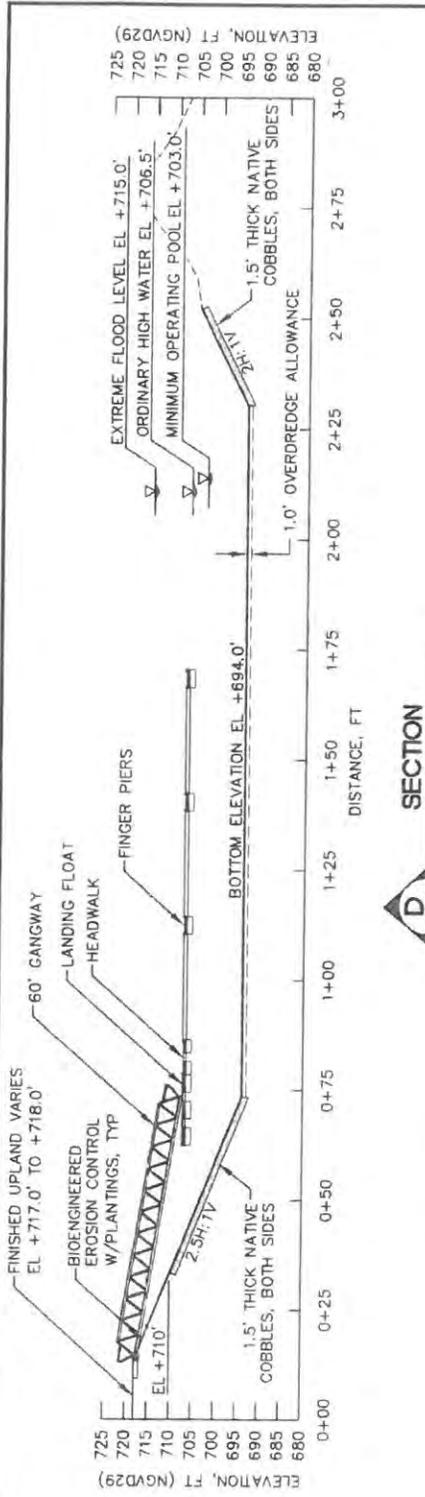
NWS-2013-1049

WATER LEVELS (NGVD29)	
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DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
 2. CHELAN COUNTY PUD

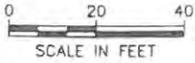
**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA
 DREDGING SECTIONS**
 APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN
REVISION
1/18/2016
SHEET 7 OF 27 **DATE:** 9/11/13



NOTES:

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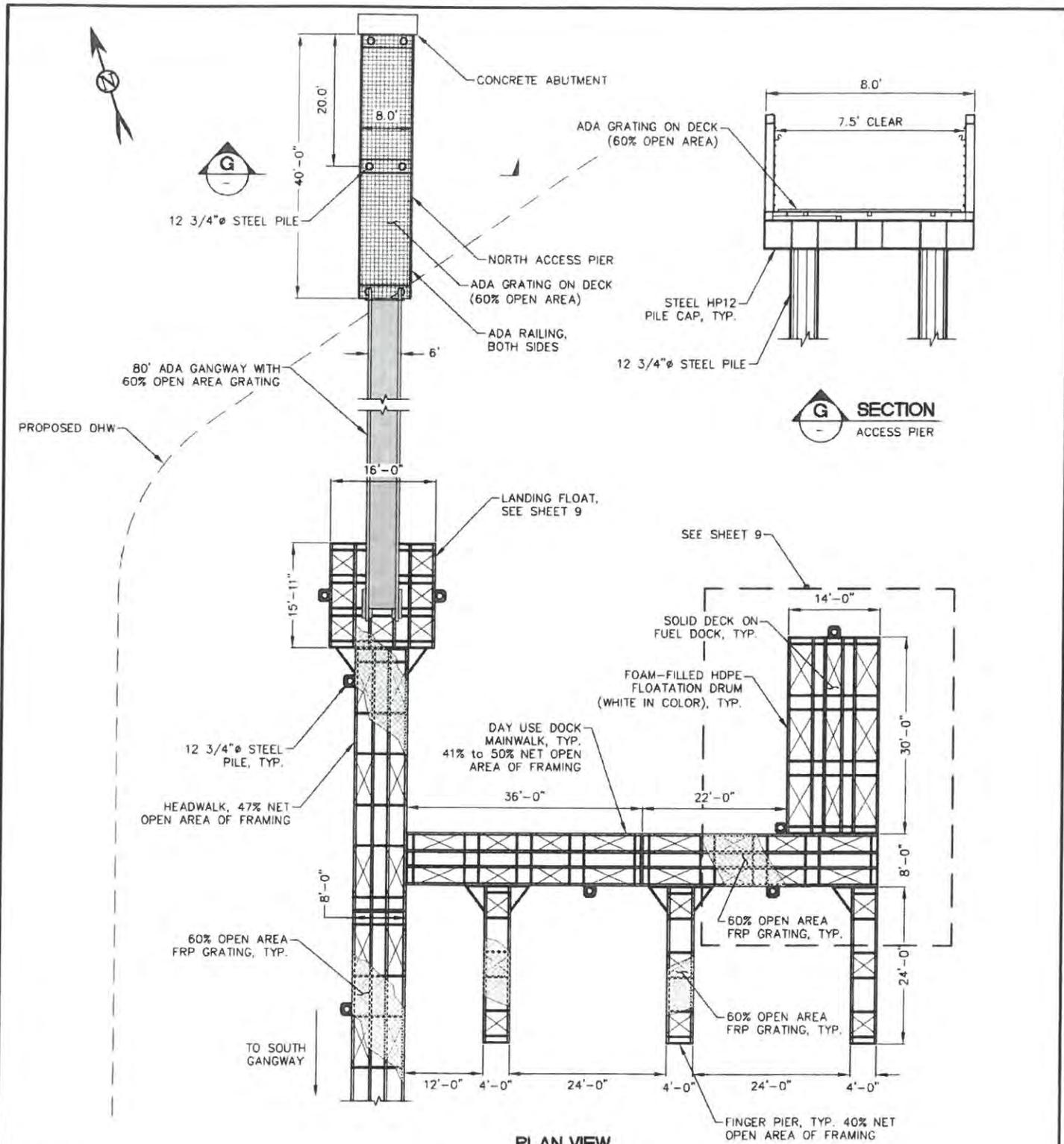
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PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
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DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
 2. CHELAN COUNTY PUD

**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA
 MARINA SECTIONS**

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN
REVISION: 1/18/2016
SHEET: 8 OF 27
DATE: 9/11/13



NOTES:

1. DETAILS AND DIMENSIONS FOR "A" DOCK AND HEADWALK SHOWN ARE SIMILAR FOR B, C, D, AND E DOCKS.

PURPOSE: CONSTRUCT PUBLIC MARINA

LOCATION: 47° 40' 41.33"N
120° 12' 16.46"W

DATUM: NGVD29

ADJACENT PROPERTY OWNERS:

1. CITY OF ENTIAT
2. CHELAN COUNTY PUD

**CITY OF ENTIAT
ENTIAT TRAIL AND MARINA**

SECTION AND DETAILS 1

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)

AT: ENTIAT, WA

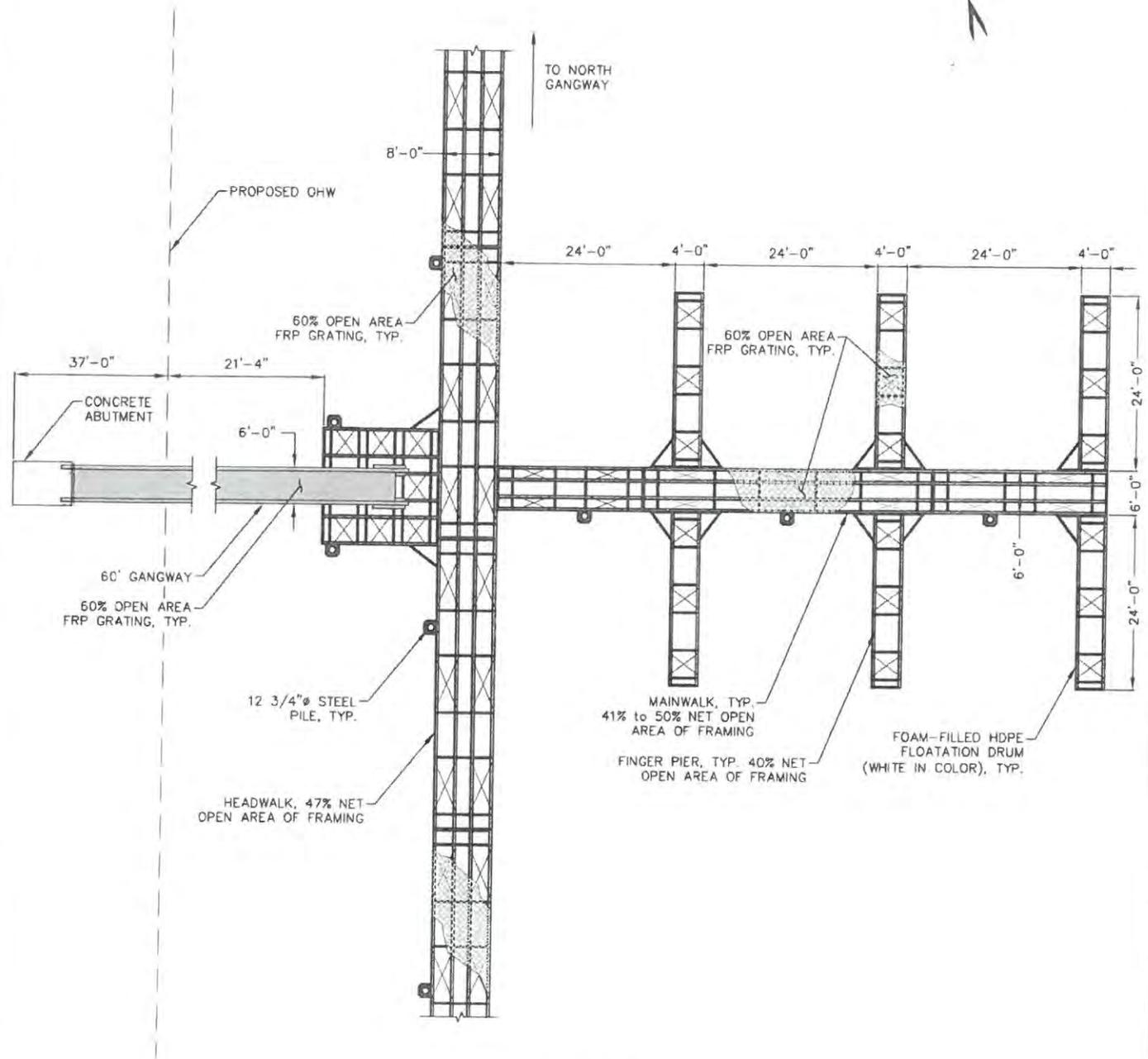
COUNTY: CHELAN

REVISED
1/18/2016

SHEET 9 OF 27

DATE: 9/11/13

NWS-2013-1049



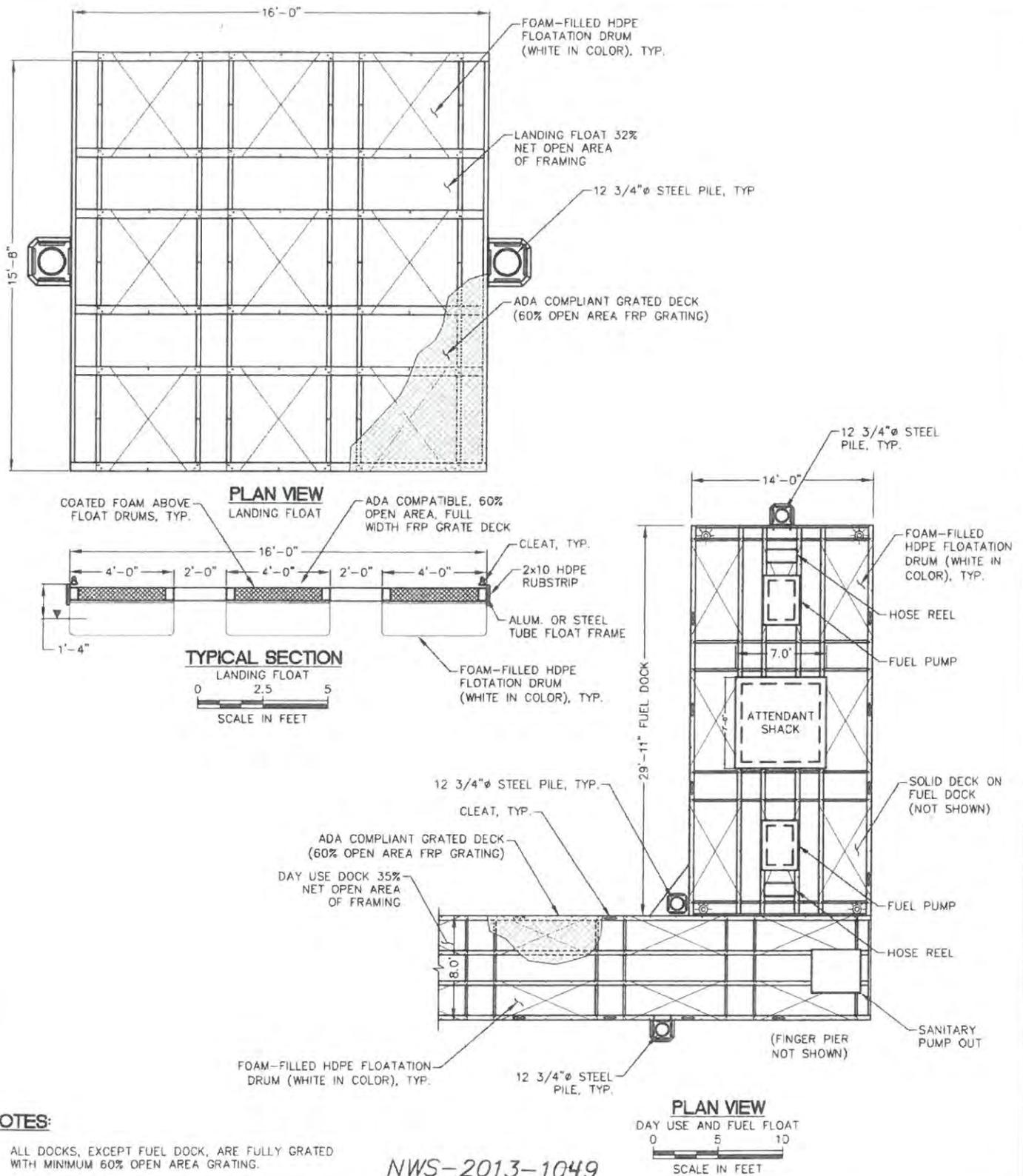
PLAN VIEW
 D DOCK, HEADWALK AND SOUTH ACCESS PIER
 0 10 20
 SCALE IN FEET

NOTES:

1. DETAILS AND DIMENSIONS FOR "D" DOCK AND HEADWALK SHOWN ARE SIMILAR FOR A, B, C, AND E DOCKS.

NWS-2013-1049

<p>PURPOSE: CONSTRUCT PUBLIC MARINA</p> <p>LOCATION: 47° 40' 41.33"N 120° 12' 16.46"W</p> <p>DATUM: NGVD29</p> <p>ADJACENT PROPERTY OWNERS:</p> <ol style="list-style-type: none"> 1. CITY OF ENTIAT 2. CHELAN COUNTY PUD 	<p>CITY OF ENTIAT ENTIAT TRAIL AND MARINA</p> <hr/> <p>SECTION AND DETAILS 2</p> <p>APPLICATION BY: CITY OF ENTIAT</p>	<p>PROPOSED: ENTIAT MARINA, PARKING AREA</p> <p>IN: LAKE ENTIAT (COLUMBIA RIVER)</p> <p>AT: ENTIAT, WA</p> <p>COUNTY: CHELAN</p> <p>REVISIONS: 1/18/2016</p> <p>SHEET 10 OF 27 DATE: 9/11/13</p>
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NOTES:

- ALL DOCKS, EXCEPT FUEL DOCK, ARE FULLY GRATED WITH MINIMUM 60% OPEN AREA GRATING.

NWS-2013-1049

PURPOSE: CONSTRUCT PUBLIC MARINA.

LOCATION: 47° 40' 41.33"N
120° 12' 16.46"W

DATUM: NGVD29

ADJACENT PROPERTY OWNERS:

- CITY OF ENTIAT
- CHELAN COUNTY PUD

**CITY OF ENTIAT
ENTIAT TRAIL AND MARINA**

SECTION AND DETAILS 3

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)

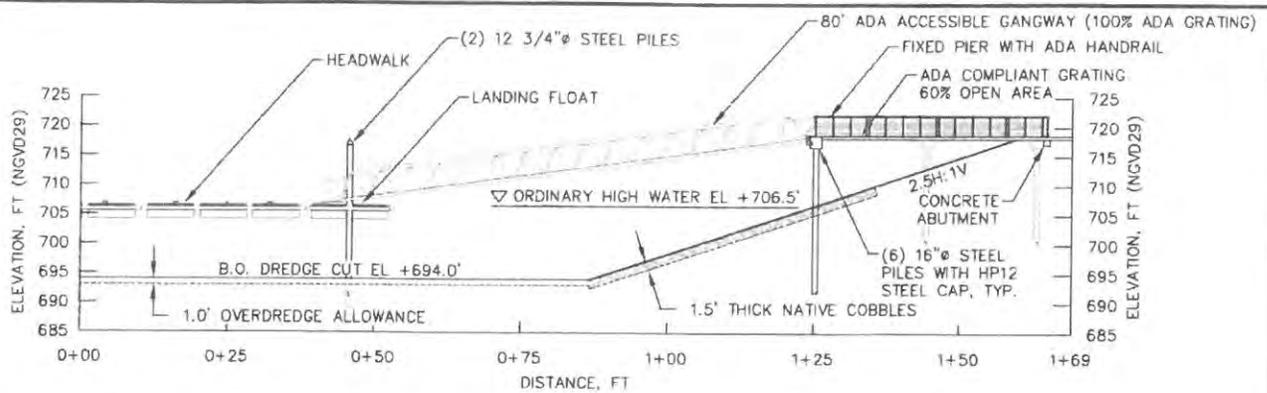
AT: ENTIAT, WA

COUNTY: CHELAN

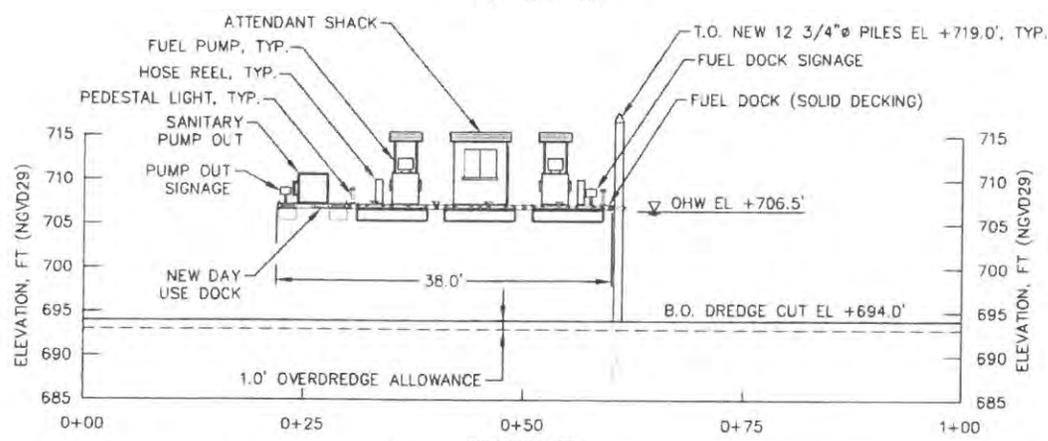
**REVISED
1/18/2016**

SHEET 11 OF 27

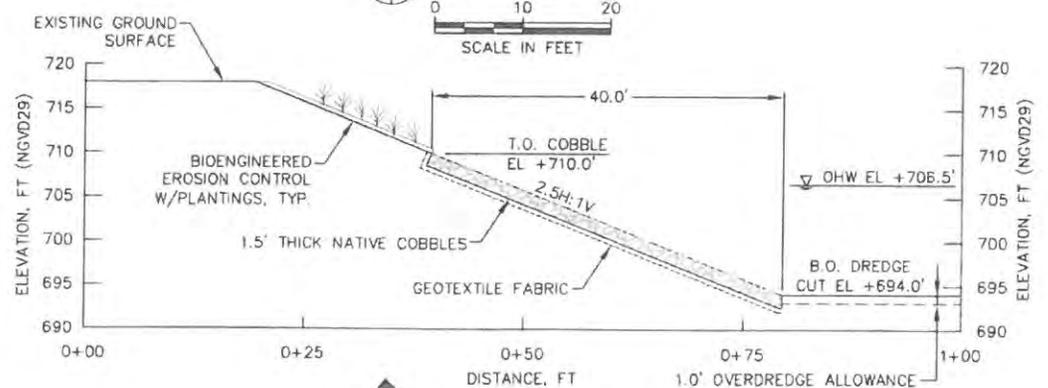
DATE: 9/11/13



SECTION G
6 | 12
SECTION
NORTH ACCESS PIER
0 15 30
SCALE IN FEET



SECTION H
6 | 12
SECTION
FUEL DOCK
0 10 20
SCALE IN FEET



SECTION I
6 | 12
SECTION
TYPICAL SHORELINE
0 10 20
SCALE IN FEET

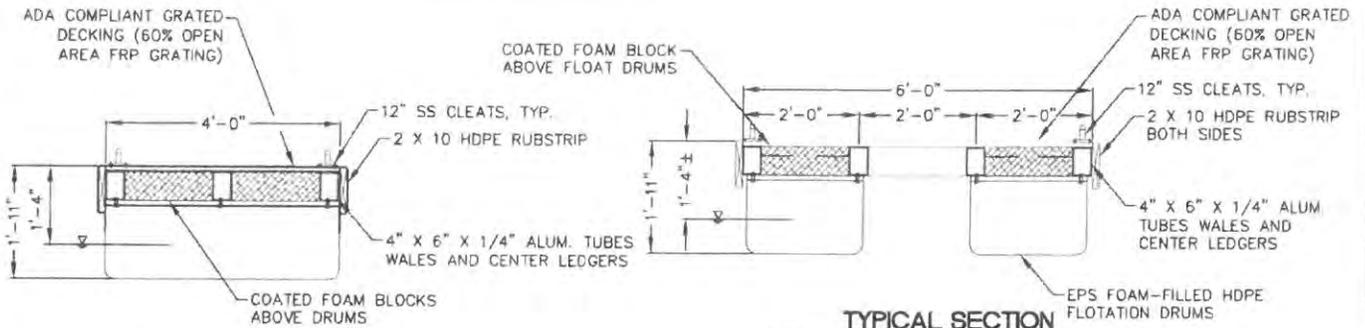
WATER LEVELS (NGVD29)	
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NWS-2013-1049

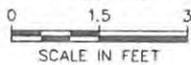
PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
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DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
 2. CHELAN COUNTY PUD

CITY OF ENTIAT
ENTIAT TRAIL AND MARINA
SECTION AND DETAILS 4
 APPLICATION BY: CITY OF ENTIAT

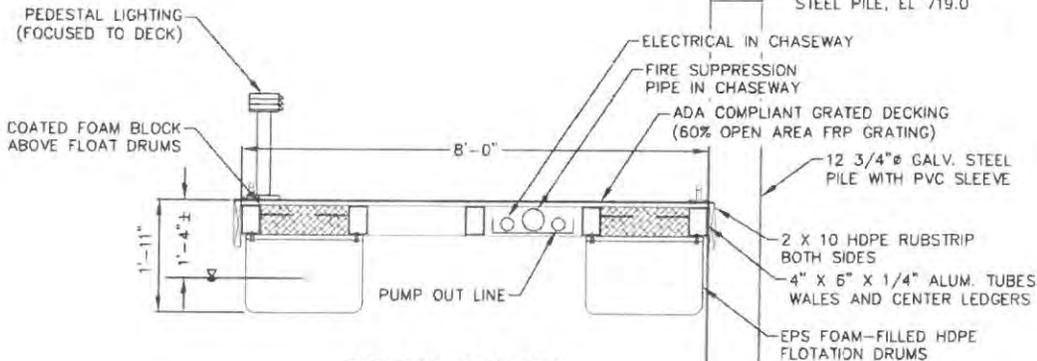
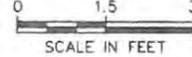
PROPOSED: ENTIAT MARINA, PARKING AREA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN
REVISION: 1/18/2016
SHEET: 12 OF 27
DATE: 9/11/13



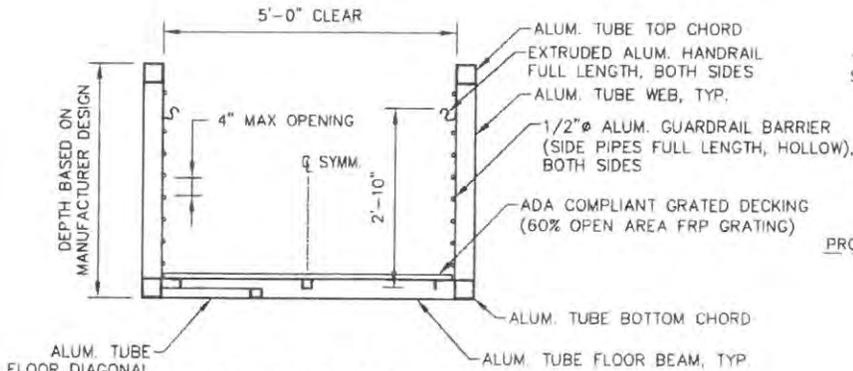
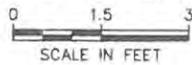
TYPICAL SECTION FINGER PIER



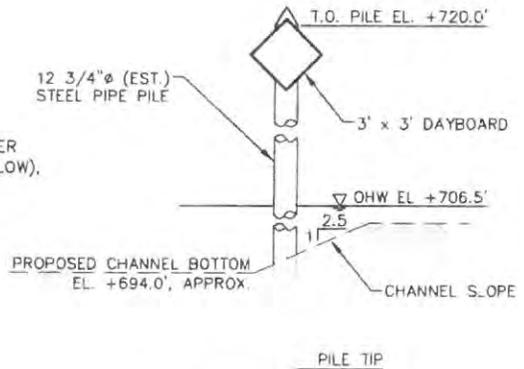
TYPICAL SECTION DOCK WALKWAY (A, B, C, D AND E DOCK)



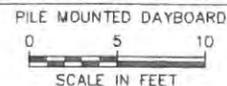
TYPICAL SECTION HEADWALK & DAY USE DOCK



TYPICAL SECTION GANGWAY



TYPICAL NAVIGATION AID



NOTES:

1. TYPICAL DETAILS FOR ALUMINUM OR STEEL DOCK FRAMING SHOWN. ACTUAL FRAMING AND MATERIALS MAY DIFFER FROM TYPICAL DETAILS.
2. ALL DOCKS, EXCEPT FUEL DOCK, ARE FULLY GRATED WITH MINIMUM 60% OPEN AREA GRATING.

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PURPOSE: CONSTRUCT PUBLIC MARINA

LOCATION: 47° 40' 41.33"N
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DATUM: NGVD29

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**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA**

SECTION AND DETAILS 5

APPLICATION BY: CITY OF ENTIAT

PROPOSED: ENTIAT MARINA, PARKING AREA

IN: LAKE ENTIAT (COLUMBIA RIVER)

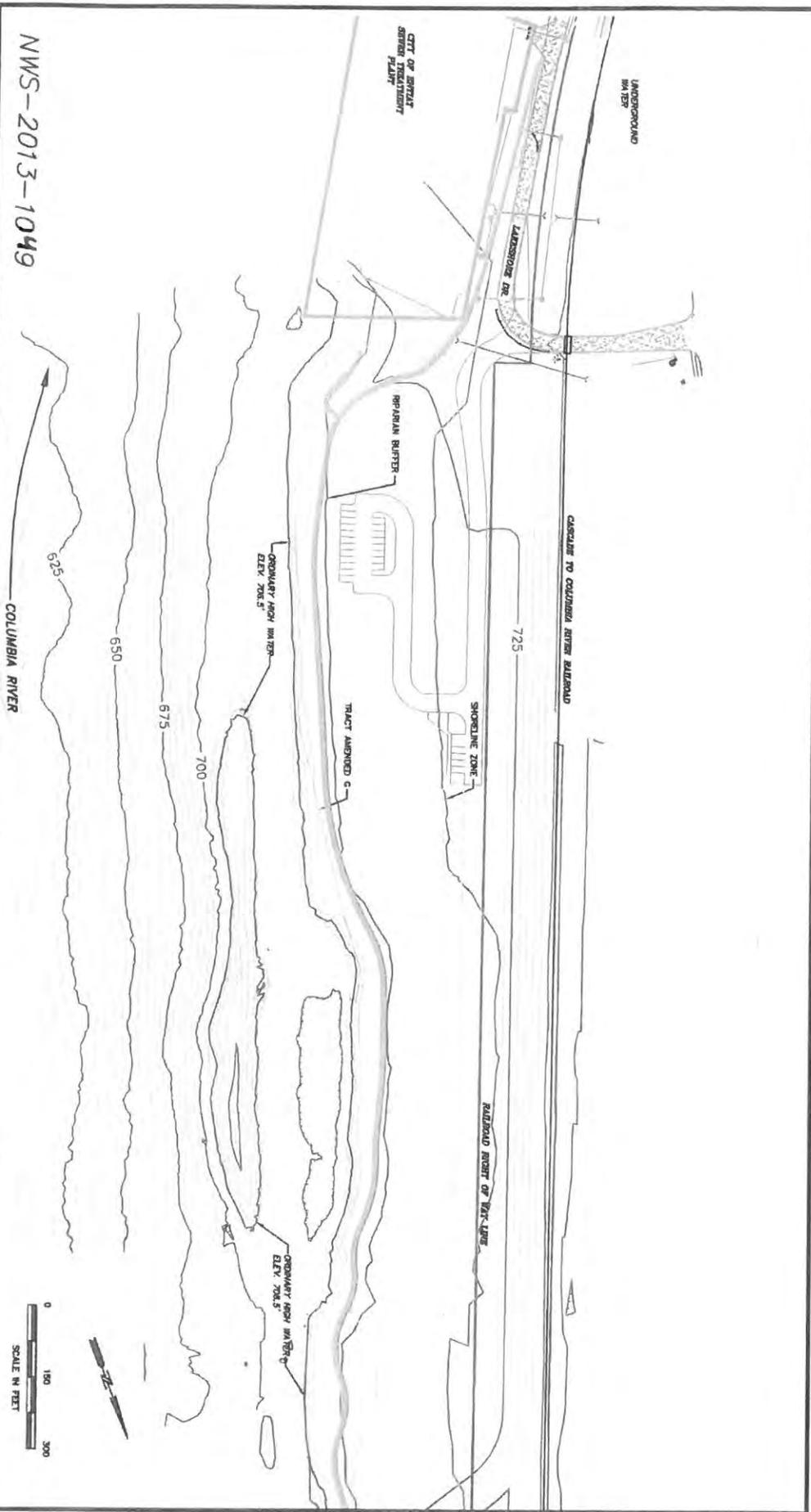
AT: ENTIAT, WA

COUNTY: CHELAN

SHEET 13 OF 27

**REVISED
 1/18/2016**

DATE: 9/11/13



NWS-2013-1049

EXISTING UPLAND CONDITIONS

HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NGVD 1928
 (1947 SUPPLEMENTAL ADJUSTMENT)
 ADJACENT PROPERTY OWNERS:
 P.U.D. NO. 1 OF CHELAN COUNTY

T. 28 N. R. 24 E. W.M. SEC. 7
 APPLICATION: CITY OF ENTIAI

PROPOSED: ENTIAI MARINA
 AND PARKING AREA
 WATERBODY: COLUMBIA RIVER
 NEAR: ENTIAI
 COUNTY: CHELAN
 STATE: WASHINGTON

GRETTIE ASSOCIATES
 151 S. WORTHEN ST
 WENATCHEE, WA 98801

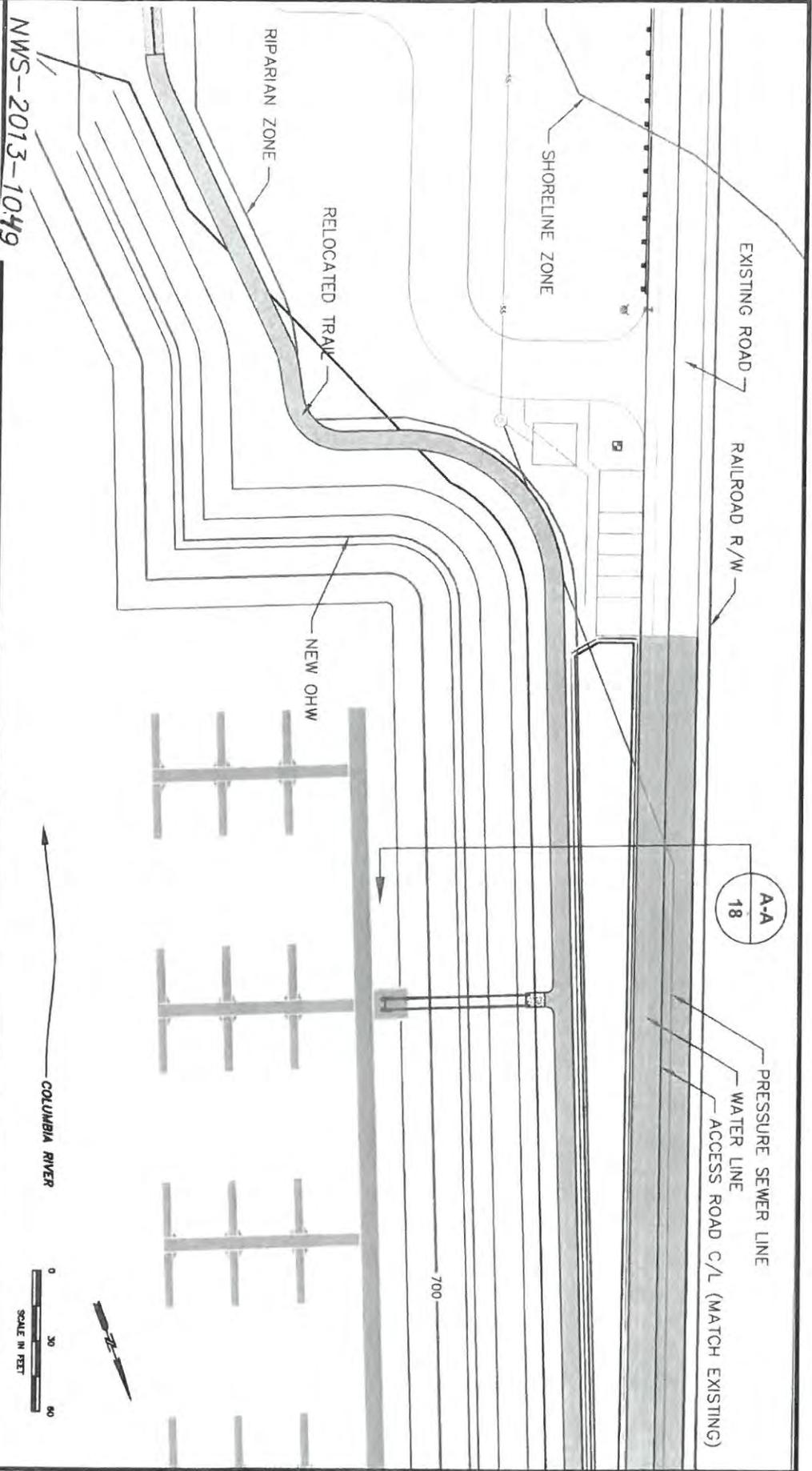


BREWSTER (509) 889-2529
 CHELAN (509) 682-4189
 E. WENATCHEE (509) 884-2562
 TOLL FREE (800) 732-1781

DRAWN BY: CF
 DATE: 9/11/2013 REVISED 1/18/2016
 LAYOUT: -

SCALE: AS NOTED
 FILE NO.: 20110165-E3.DWG
 JOB NO.: 20110165.0000

SHT 14 OF 27



NWS-2013-1049

ACCESS ROADWAY PLAN

HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NGVD 1929
 (1947 SUPPLEMENTAL ADJUSTMENT)
 ADJACENT PROPERTY OWNERS:
 P.U.D. NO. 1 OF CHELAN COUNTY

T. 28 N. R. 24 E. W.M. SEC. 7
 APPLICATION: CITY OF ENTIAI

GRETTIE ASSOCIATES
 151 S. WORTHEN ST
 WENATCHEE, WA 98801

PROPOSED: ENTIAI MARINA
 AND PARKING AREA
 WATERBODY: COLUMBIA RIVER
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 COUNTY: CHELAN
 STATE: WASHINGTON



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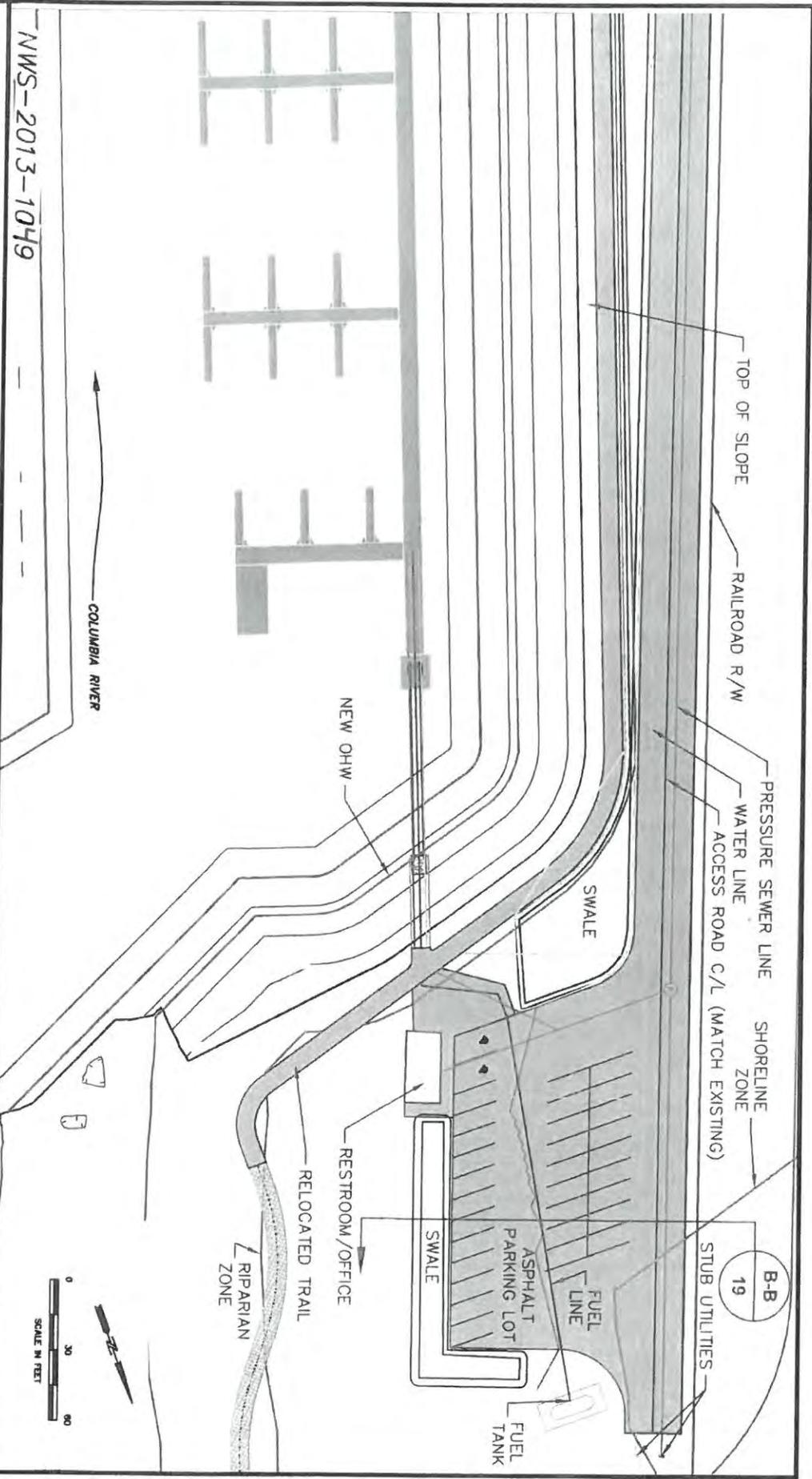
SHT 16
 OF 27

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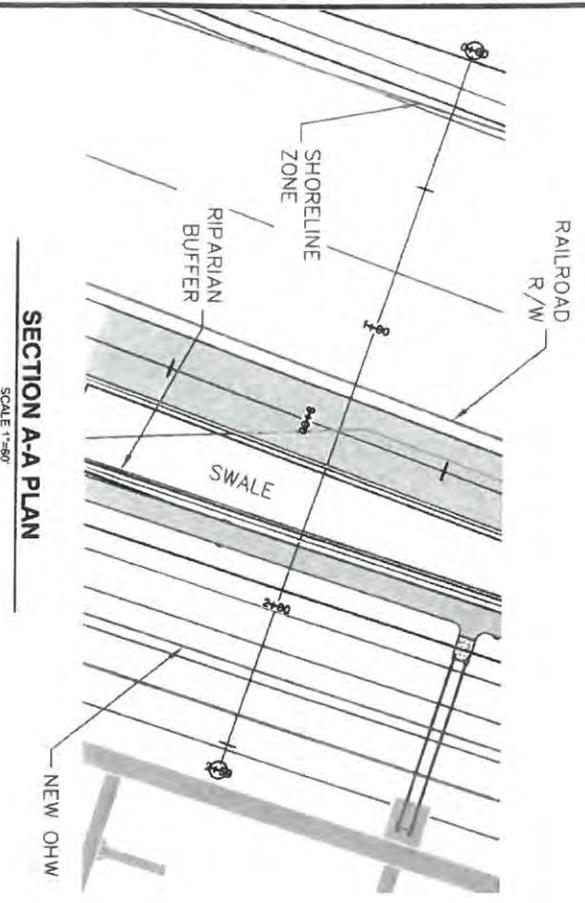
Erlandtsen
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 E. WENATCHEE (509) 884-2562
 TOLL FREE (800) 732-1781

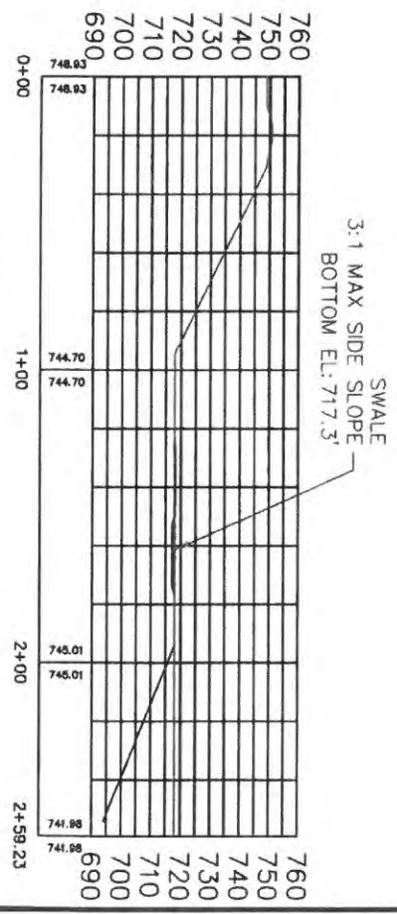
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 DATE: 9/11/2013
 SCALE: AS NOTED
 LAYOUT: -
 FILE NO.: 20110165-E3.DWG
 JOB NO.: 20110165.0000

SHT 17 OF 27





SECTION A-A PLAN
SCALE 1"=80'



SECTION A-A PROFILE
SCALE 1"=80'

NWS-2013-1049

SECTION A-A

T. 28 N. R. 24 E. W.M. SEC. 7

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NGVD 1929
(1947 SUPPLEMENTAL ADJUSTMENT)
ADJACENT PROPERTY OWNERS:
P.L.D. NO. 1 OF CHELAN COUNTY

APPLICATION: CITY OF ENTIAI

GRETTIE ASSOCIATES
151 S. WORTHEN ST
WENATCHEE, WA 98801

PROPOSED: ENTIAI MARINA
AND PARKING AREA

WATERBODY: COLUMBIA RIVER
NEAR: ENTIAI
COUNTY: CHELAN
STATE: WASHINGTON



BREWSTER (509) 689-2529
CHELAN (509) 682-4189
E. WENATCHEE (509) 884-2562

TOLL FREE (800) 732-1781

SHT 18 OF 27

DRAWN BY: CF

DATE: 9/11/2013

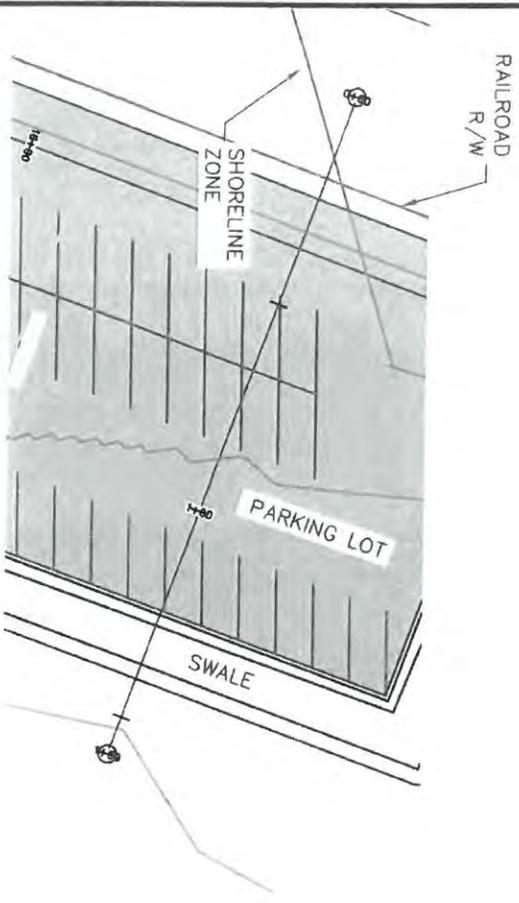
REVISED 1/18/2016

LAYOUT: --

FILE NO.: 20110165-E3.DWG

SCALE: AS NOTED

JOB NO.: 20110165.0000



SECTION B-B PLAN
SCALE 1"=40'

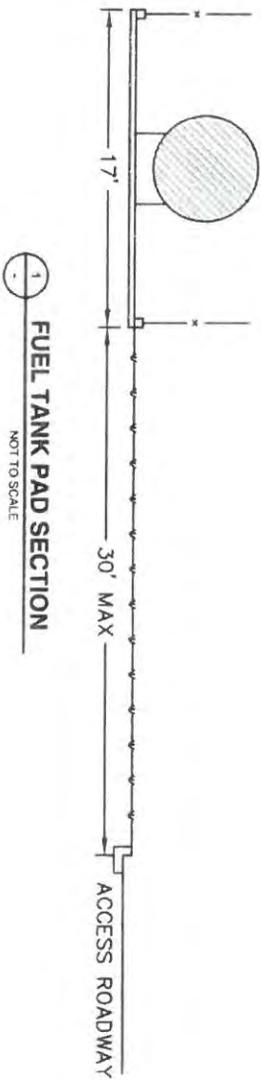
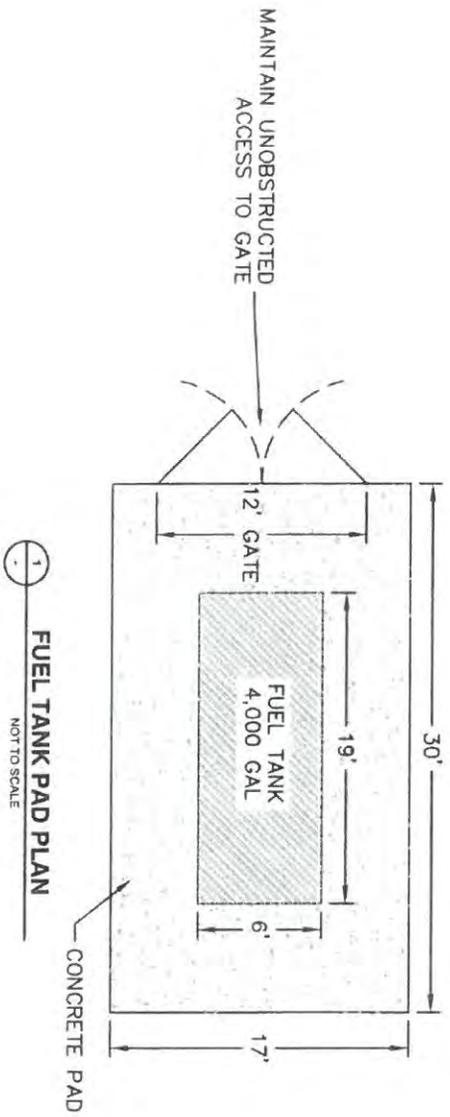


SECTION B-B PROFILE
SCALE 1"=40'

NWS-2013-10H9

SECTION B-B T. 28 N. R. 24 E. W.M. SEC. 7 APPLICATION: CITY OF ENTIA GRETTIE ASSOCIATES 151 S. WORTHEN ST WENATCHEE, WA 98801		HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NGVD 1929 (1947 SUPPLEMENTAL ADJUSTMENT) ADJACENT PROPERTY OWNERS: P.U.D. NO. 1 OF CHELAN COUNTY
PROPOSED: ENTIA MARINA AND PARKING AREA WATERBODY: COLUMBIA RIVER NEAR: ENTIA COUNTY: CHELAN STATE: WASHINGTON		

 SURVEYING PLANNING ENGINEERING GIS		BREWSTER (509) 689-2529 CHELAN (509) 682-4189 E. WENATCHEE (509) 884-2562	SHT 19 OF 27
DRAWN BY: CF DATE: 9/11/2013 SCALE: AS NOTED	REVISED 1/18/2016 LAYOUT: -	TOLL FREE (800) 732-1781	
FILE NO.: 20110165-E3.DWG JOB NO.: 20110165.0000			



NWS-2013-1049

DETAILS

T. 28 N. R. 24 E. W.M. SEC. 7

APPLICATION: CITY OF ENTIAI

GRETTE ASSOCIATES
151 S. WORTHEN ST
WENATCHEE, WA 98801

PROPOSED: ENTIAI MARINA
AND PARKING AREA

WATERBODY: COLUMBIA RIVER
NEAR: ENTIAI
COUNTY: CHELAN
STATE: WASHINGTON



BREWSTER (509) 889-2529
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E. WENATCHEE (509) 884-2562

TOLL FREE (800) 732-1781

DRAWN BY: CF

DATE: 9/11/2013 REVISED 1/18/2016

SCALE: AS NOTED

LAYOUT: -

FILE NO.: 20110165-E3.DWG

JOB NO.: 20110165.0000

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NGVD 1929
(1947 SUPPLEMENTAL ADJUSTMENT)
ADJACENT PROPERTY OWNERS:
P.L.D. NO. 1 OF CHELAN COUNTY

SHT 20 OF 27

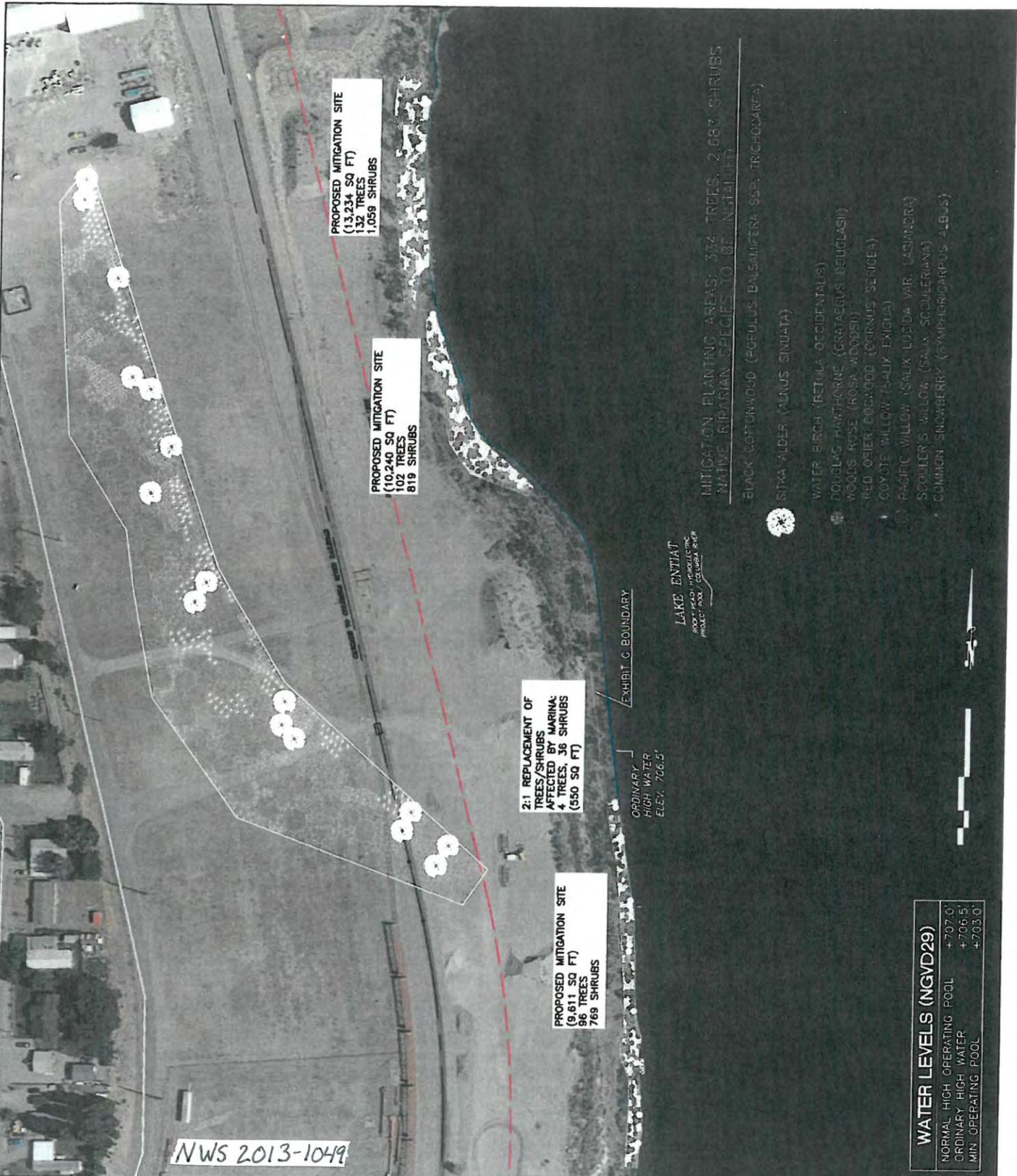


PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W
DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
 2. CHELAN COUNTY PUD

**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA
 MITIGATION PLAN**

APPLICATION BY: CITY OF ENTIAT

PROPOSED: DREDGING, EXCAVATION AND
 INSTALLATION OF PUBLIC MARINA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AI: ENTIAT, WA
COUNTY: CHELAN
REVISED: 1/18/16
DATE: 5/20/14
 SHEET 21 OF 27



PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W
DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 1. CITY OF ENTIAT
 2. CHELAN COUNTY PUD

**CITY OF ENTIAT
 ENTIAT TRAIL AND MARINA**

MITIGATION PLAN

APPLICATION BY: CITY OF ENTIAT

PROPOSED: DREDGING, EXCAVATION AND
 INSTALLATION OF PUBLIC MARINA
IN: LAKE ENTIAT (COLUMBIA RIVER)
AT: ENTIAT, WA
COUNTY: CHELAN
REVISED: 1/18/16
DATE: 5/20/14
SHEET: 22 OF 27



PROPOSED MITIGATION
LOCATION

PROPOSED MARINA
LOCATION

SCALE IN FEET
1" = 700 FEET

NWS 2013-1049

PURPOSE: CONSTRUCT PUBLIC MARINA
 LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W
 DATUM: NGVD29

ADJACENT PROPERTY OWNERS:
 ① CITY OF ENTIAT
 ② CHELAN COUNTY PUD

UPDATED MITIGATION
 PLAN; PROPOSED
 LOCATION

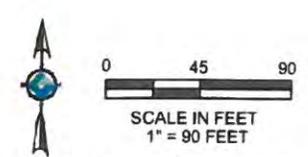
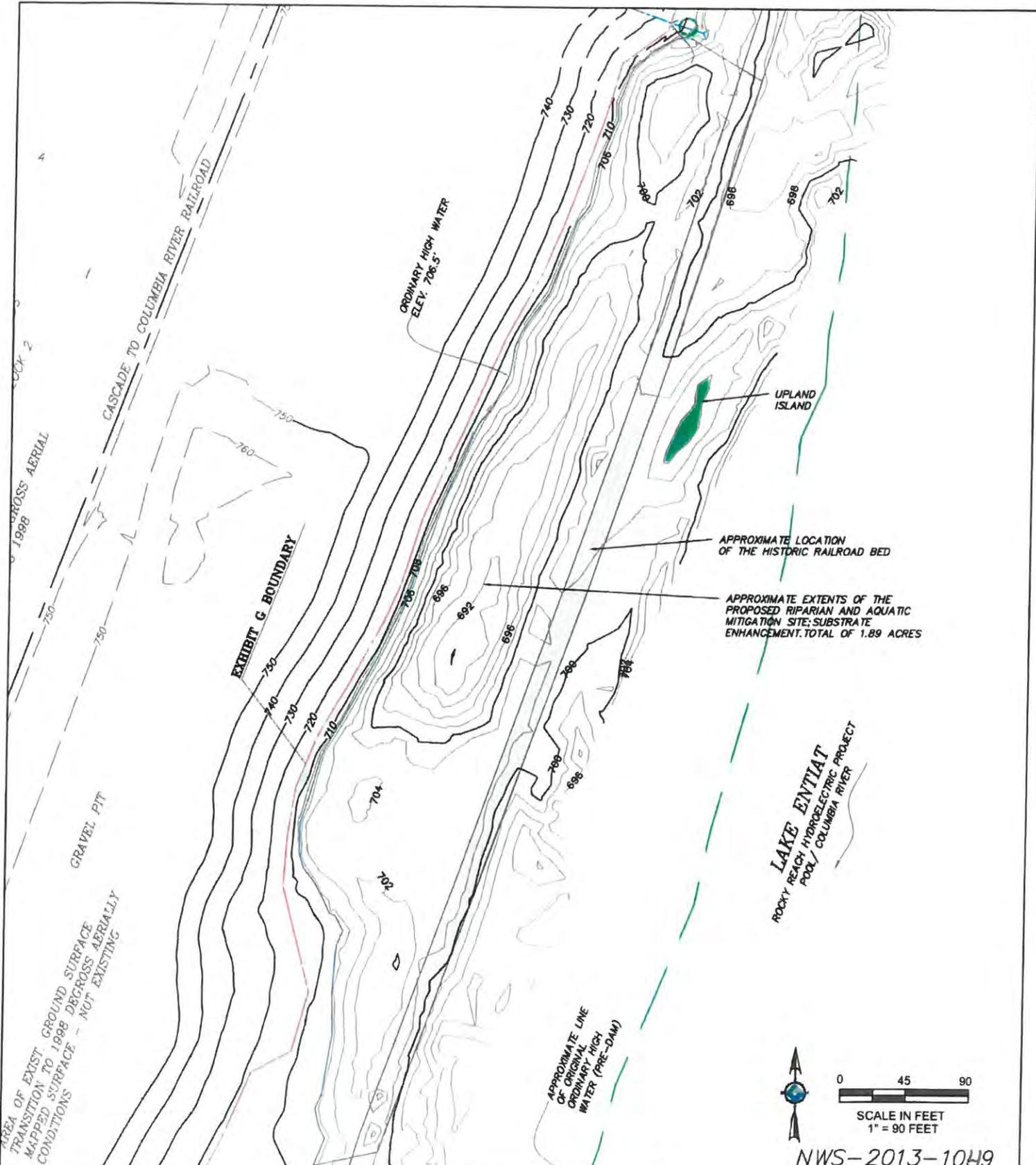
Grette Associates^{LLC}
 ENVIRONMENTAL CONSULTANTS
 151 South Worthen, Suite 101
 Wenatchee, WA 98801
 (509) 663-8300 | www.gretteassociates.com

PROPOSED: ENTIAT MARINA

IN: COLUMBIA RIVER
 AT: ENTIAT, WA

COUNTY OF: CHELAN
 STATE: WA
 APPLICATION BY: CITY OF ENTIAT

SHEET NO. 23 OF 27 DATE: 1/18/2016



NWS-2013-1049

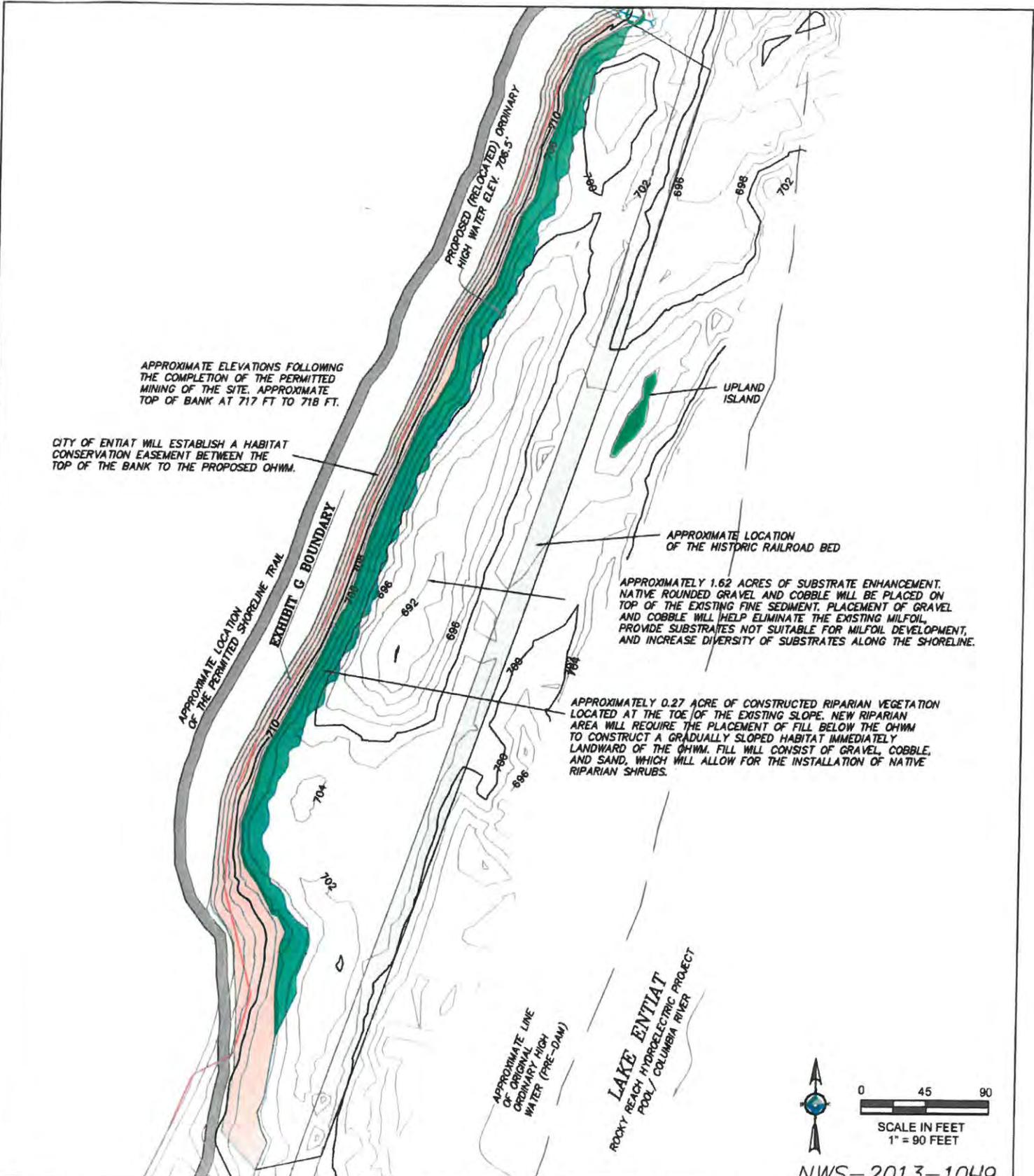
PURPOSE: CONSTRUCT PUBLIC MARINA
LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W
DATUM: NGVD29
ADJACENT PROPERTY OWNERS:
 ① CITY OF ENTIAT
 ② CHELAN COUNTY PUD

**UPDATED MITIGATION
 PLAN; EXISTING
 CONDITIONS**



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 Wenatchee, WA 98801
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PROPOSED: ENTIAT MARINA
IN: COLUMBIA RIVER
AT: ENTIAT, WA
COUNTY OF: CHELAN
STATE: WA
APPLICATION BY: CITY OF ENTIAT
SHEET NO. 24 OF 27 DATE: 1/18/2016

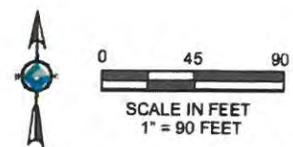


APPROXIMATE ELEVATIONS FOLLOWING THE COMPLETION OF THE PERMITTED MINING OF THE SITE. APPROXIMATE TOP OF BANK AT 717 FT TO 718 FT.

CITY OF ENTIAT WILL ESTABLISH A HABITAT CONSERVATION EASEMENT BETWEEN THE TOP OF THE BANK TO THE PROPOSED OHWM.

APPROXIMATELY 1.62 ACRES OF SUBSTRATE ENHANCEMENT. NATIVE ROUNDED GRAVEL AND COBBLE WILL BE PLACED ON TOP OF THE EXISTING FINE SEDIMENT. PLACEMENT OF GRAVEL AND COBBLE WILL HELP ELIMINATE THE EXISTING MILFOIL, PROVIDE SUBSTRATES NOT SUITABLE FOR MILFOIL DEVELOPMENT, AND INCREASE DIVERSITY OF SUBSTRATES ALONG THE SHORELINE.

APPROXIMATELY 0.27 ACRE OF CONSTRUCTED RIPARIAN VEGETATION LOCATED AT THE TOE OF THE EXISTING SLOPE. NEW RIPARIAN AREA WILL REQUIRE THE PLACEMENT OF FILL BELOW THE OHWM TO CONSTRUCT A GRADUALLY SLOPED HABITAT IMMEDIATELY LANDWARD OF THE OHWM. FILL WILL CONSIST OF GRAVEL, COBBLE, AND SAND, WHICH WILL ALLOW FOR THE INSTALLATION OF NATIVE RIPARIAN SHRUBS.



NWS-2013-1049

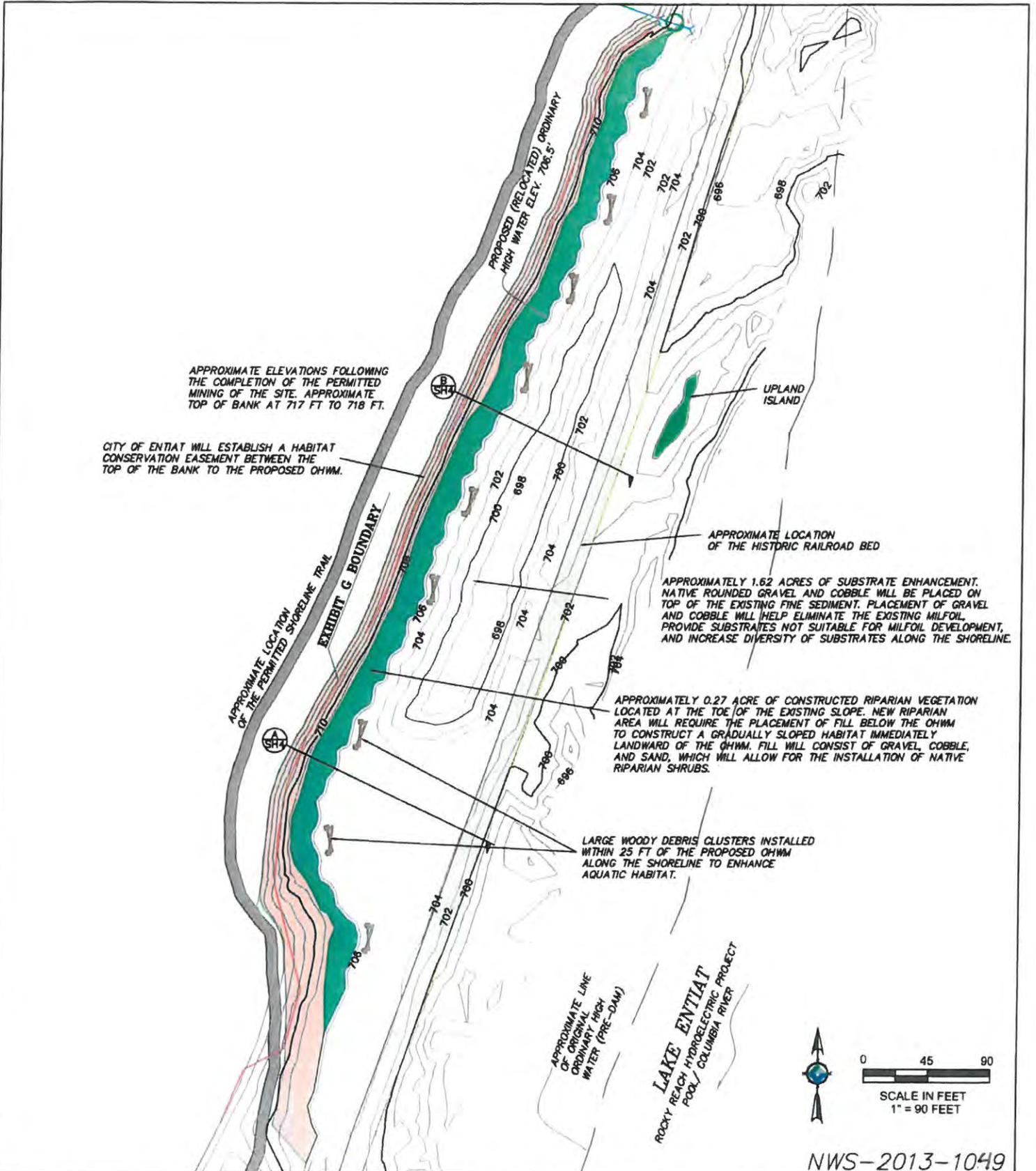
PURPOSE: CONSTRUCT PUBLIC MARINA
 LOCATION: 47° 40' 41.33"N
 120° 12' 16.46"W
 DATUM: NGVD29
 ADJACENT PROPERTY OWNERS:
 ① CITY OF ENTIAT
 ② CHELAN COUNTY PUD

**UPDATED MITIGATION
 PLAN; PROPOSED
 CONDITIONS**



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 Wenatchee, WA 98801
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PROPOSED: ENTIAT MARINA
 IN: COLUMBIA RIVER
 AT: ENTIAT, WA
 COUNTY OF: CHELAN
 STATE: WA
 APPLICATION BY: CITY OF ENTIAT
 SHEET NO. 25 OF 27 DATE: 1/18/2016



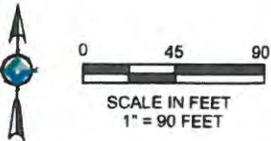
APPROXIMATE ELEVATIONS FOLLOWING THE COMPLETION OF THE PERMITTED MINING OF THE SITE. APPROXIMATE TOP OF BANK AT 717 FT TO 718 FT.

CITY OF ENTIAT WILL ESTABLISH A HABITAT CONSERVATION EASEMENT BETWEEN THE TOP OF THE BANK TO THE PROPOSED OHWM.

APPROXIMATELY 1.62 ACRES OF SUBSTRATE ENHANCEMENT. NATIVE ROUNDED GRAVEL AND COBBLE WILL BE PLACED ON TOP OF THE EXISTING FINE SEDIMENT. PLACEMENT OF GRAVEL AND COBBLE WILL HELP ELIMINATE THE EXISTING MILFOIL, PROVIDE SUBSTRATES NOT SUITABLE FOR MILFOIL DEVELOPMENT, AND INCREASE DIVERSITY OF SUBSTRATES ALONG THE SHORELINE.

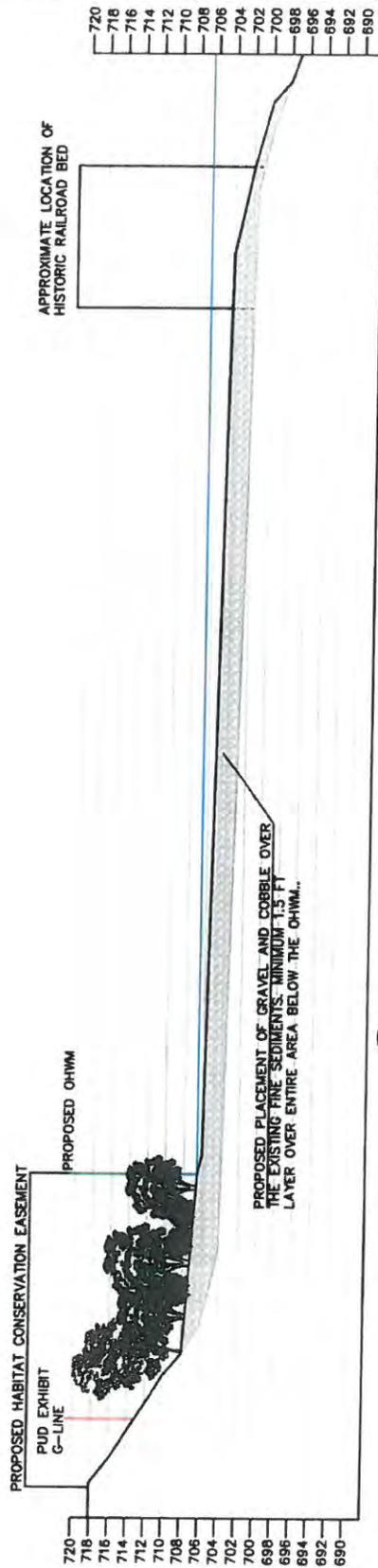
APPROXIMATELY 0.27 ACRE OF CONSTRUCTED RIPARIAN VEGETATION LOCATED AT THE TOE OF THE EXISTING SLOPE. NEW RIPARIAN AREA WILL REQUIRE THE PLACEMENT OF FILL BELOW THE OHWM TO CONSTRUCT A GRADUALLY SLOPED HABITAT IMMEDIATELY LANDWARD OF THE OHWM. FILL WILL CONSIST OF GRAVEL, COBBLE, AND SAND, WHICH WILL ALLOW FOR THE INSTALLATION OF NATIVE RIPARIAN SHRUBS.

LARGE WOODY DEBRIS CLUSTERS INSTALLED WITHIN 25 FT OF THE PROPOSED OHWM ALONG THE SHORELINE TO ENHANCE AQUATIC HABITAT.

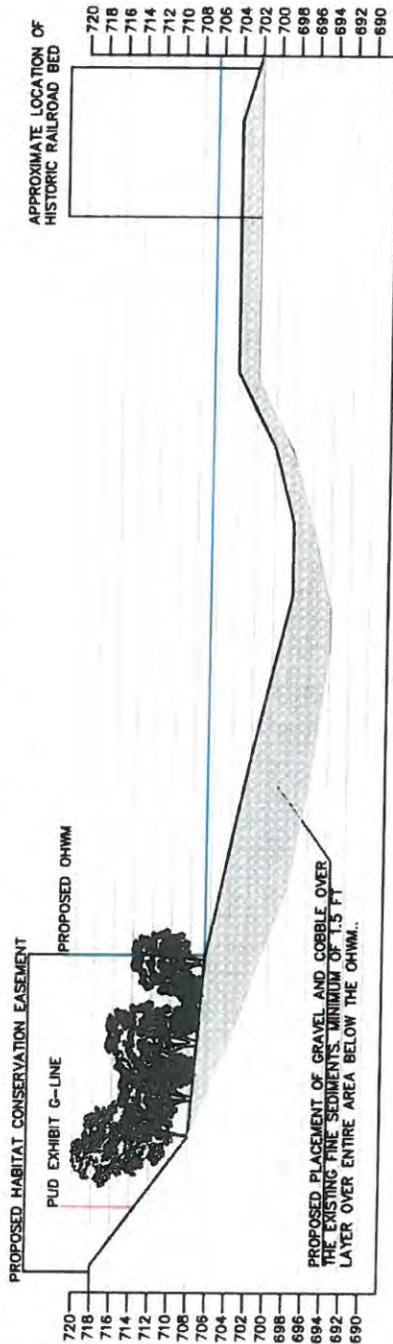


NWS-2013-1049

<p>PURPOSE: CONSTRUCT PUBLIC MARINA</p> <p>LOCATION: 47° 40' 41.33"N 120° 12' 16.46"W</p> <p>DATUM: NGVD29</p> <p>ADJACENT PROPERTY OWNERS:</p> <p>① CITY OF ENTIAT ② CHELAN COUNTY PUD</p>	<p>UPDATED MITIGATION PLAN; PROPOSED CONDITIONS</p> <p>Grette Associates^{INC} ENVIRONMENTAL CONSULTANTS 151 South Worthen, Suite 101 Wenatchee, WA 98801 (509) 663-6300 www.gretteassociates.com</p>	<p>PROPOSED: ENTIAT MARINA</p> <p>IN: COLUMBIA RIVER AT: ENTIAT, WA</p> <p>COUNTY OF: CHELAN STATE: WA APPLICATION BY: CITY OF ENTIAT</p> <p>SHEET NO. 26 OF 27 DATE: 1/18/2016</p>
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A CROSS SECTION



B CROSS SECTION

NWS-2013-1049

PURPOSE: CONSTRUCT PUBLIC MARINA

LOCATION: 47° 40' 41.33"N
120° 12' 16.46"W

DATUM: NGVD29

ADJACENT PROPERTY OWNERS:

- ① CITY OF ENTIAT
- ② CHELAN COUNTY PUD

UPDATED MITIGATION
PLAN; PROPOSED
CROSS SECTION



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PROPOSED: ENTIAT MARINA

IN: COLUMBIA RIVER
AT: ENTIAT, WA

COUNTY OF: CHELAN
STATE: WA
APPLICATION BY: CITY OF ENTIAT

SHEET NO. 27 OF 27 DATE: 1/18/2016