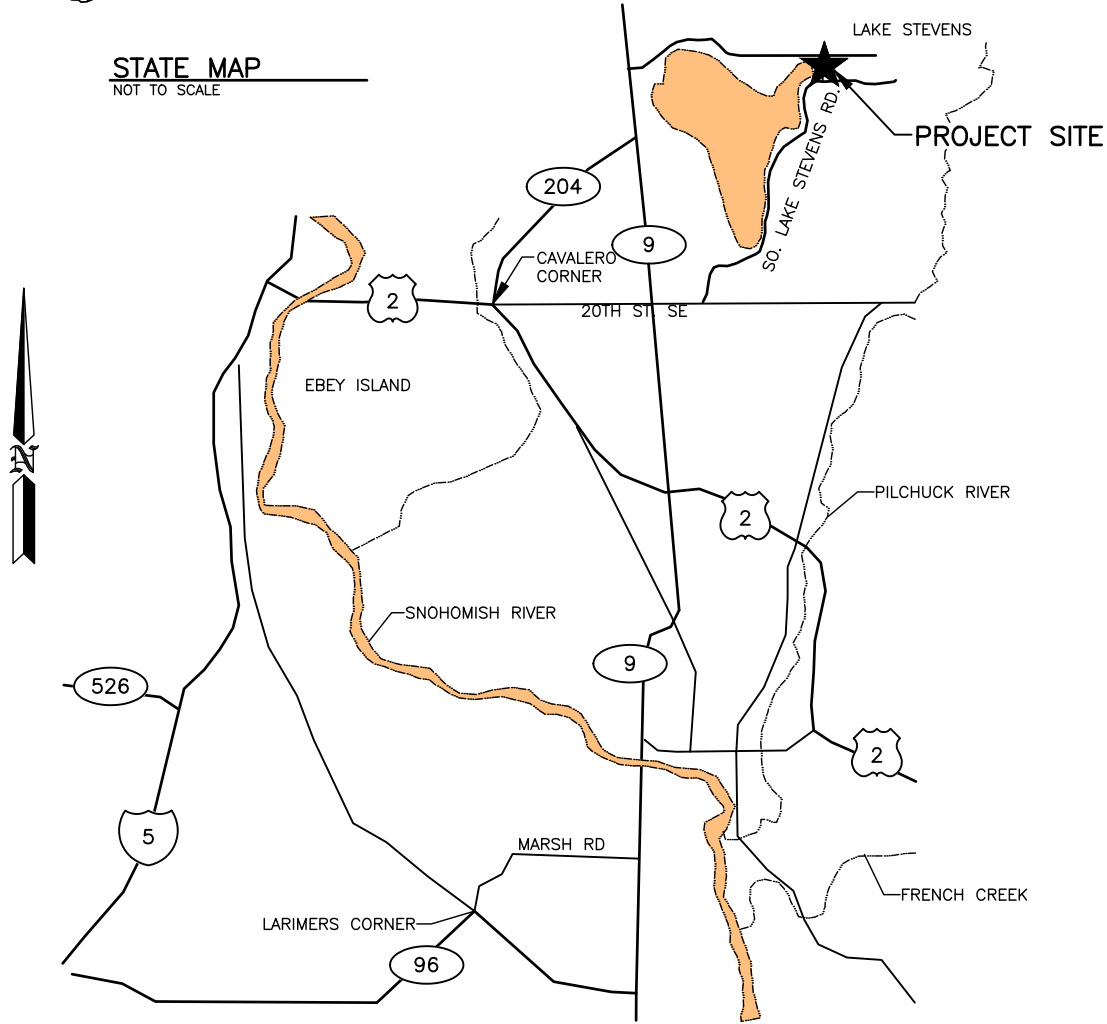


**STATE MAP**  
NOT TO SCALE



**VICINITY MAP**  
NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

ENG. PROJECT NO. SH:A543:17-1

PORTION OF: SEC.8, T.29 N, R.6 E, W.M.

REFERENCE NUMBER:

PROJECT LOCATION (ADDRESS):

PROPOSED PROJECT:

APPLICANT:  
WASHINGTON DEPT. of FISH & WILDLIFE  
600 CAPITOL WAY N.  
OLYMPIA, WA 98501-1091

LAKE STEVENS ACCESS, NORTH COVE  
12306 17TH PLACE NE  
LAKE STEVENS, WA 98258

BOAT RAMP REPLACEMENT

ADJACENT PROPERTY OWNER:

LAT/LONG: N048°00'47.37"/W122°03'58.35"

IN: LAKE STEVENS

1.

DATUM: NAVD'88

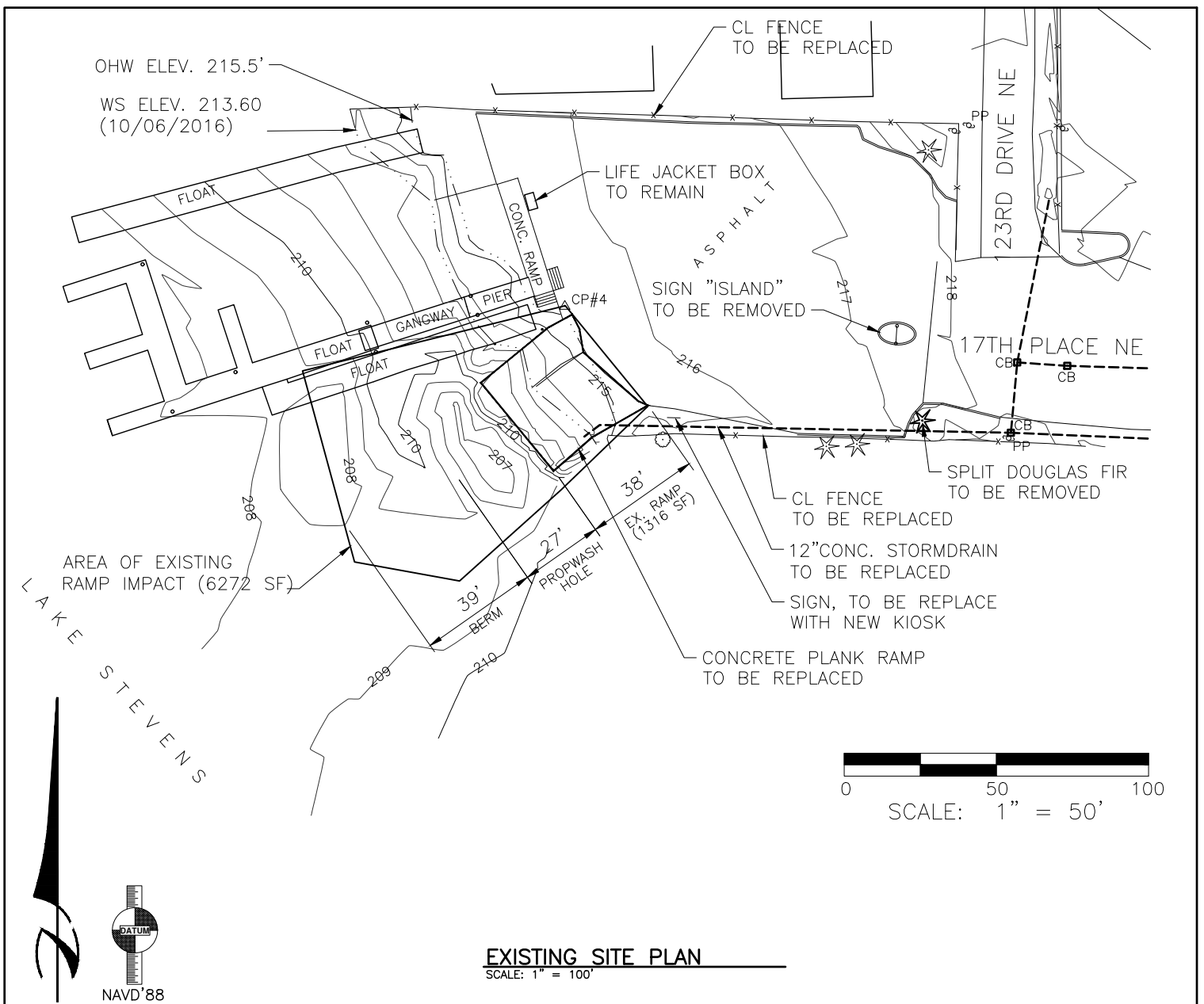
NEAR/AT: LAKE STEVENS

2.

SHEET 1 OF 7 DATE: 1/17/2017

COUNTY: SNOHOMISH

STATE: WA



**EXISTING SITE PLAN**

SCALE: 1" = 100'

VERTICAL DATUM

NAVD88 DERIVED FROM NGS OPUS SOLUTION

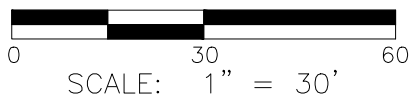
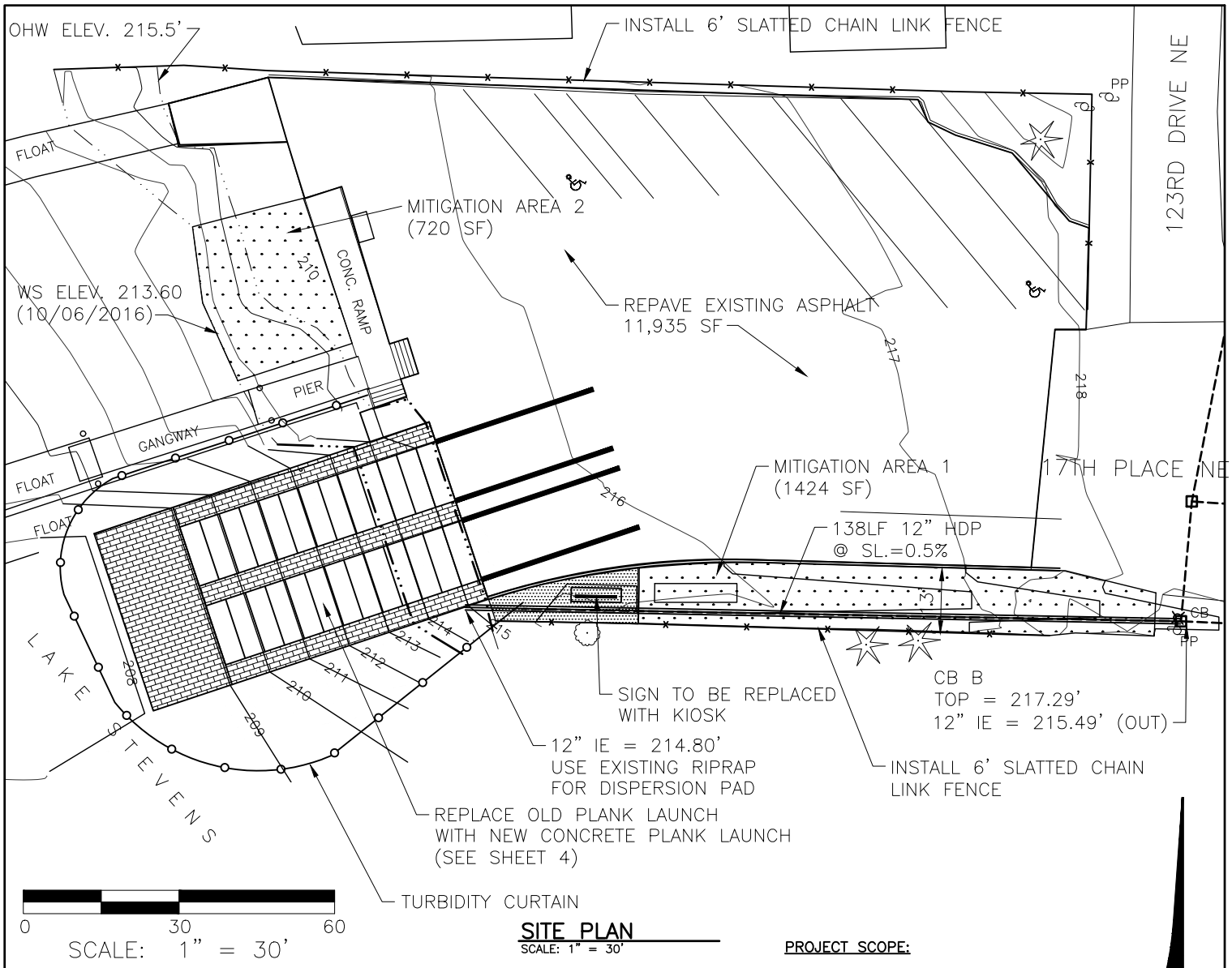
CONVERSION FACTOR:

(NAVD88 ELEVATION) - (3.71') = (NGVD29 ELEVATION)  
 (NAVD88 ELEVATION) - (3.08') = (CITY LAKE ELEVATION)  
 CITY GAUGE READING 10.52' = WS 10/06/2016  
 = 213.60' (NAVD88 ELEV.)  
 PER CITY 5 YR RECORD HIGH = 215.88  
 PER CITY APPROX. LOW = 212.58

CP#4

SET P.K. NAIL  
 N 371986.8474'  
 E 1338674.1542'  
 ELEV. 215.52'  
 LATT. N048° 00' 47.37"  
 LONG. W122° 03' 58.35"

REFERENCE NUMBER:  
 APPLICANT NAME:  
**WASHINGTON DEPT. of FISH & WILDLIFE**  
 PROPOSED PROJECT:  
**NORTH COVE ACCESS SITE RENOVATION**  
 LOCATION: LAKE STEVENS ACCESS  
 SHEET 2 OF 7 DATE: 01/12/2017



**SITE PLAN**  
SCALE: 1" = 30'

**CUT/FILL QUANTITIES**

DESCRIPTION	AREA SF	VOLUME CUT CY	VOLUME FILL CY	NOTE:
OLD PLANKS	1316	16.23		4" THICK PLANKS
PROPWASH BERM	2886	55.56		PULL INTO HOLE OR HAUL OFF
PROPWASH HOLE	1350		37.04	USE BERM AND QUARRY SPALLS
SUBGRADE CUT		8.44		FINAL GRADE
SUBGRADE FILL			7.70	4" GRAVEL UNDER RAMP
RAMP PLANKS	624		11.56	6" THICK PLANKS
ARTICULATED MAT	1200		22.22	6" 20% OPEN SPACE BLOCKS
<b>TOTAL</b>		<b>80.23</b>	<b>78.51</b>	

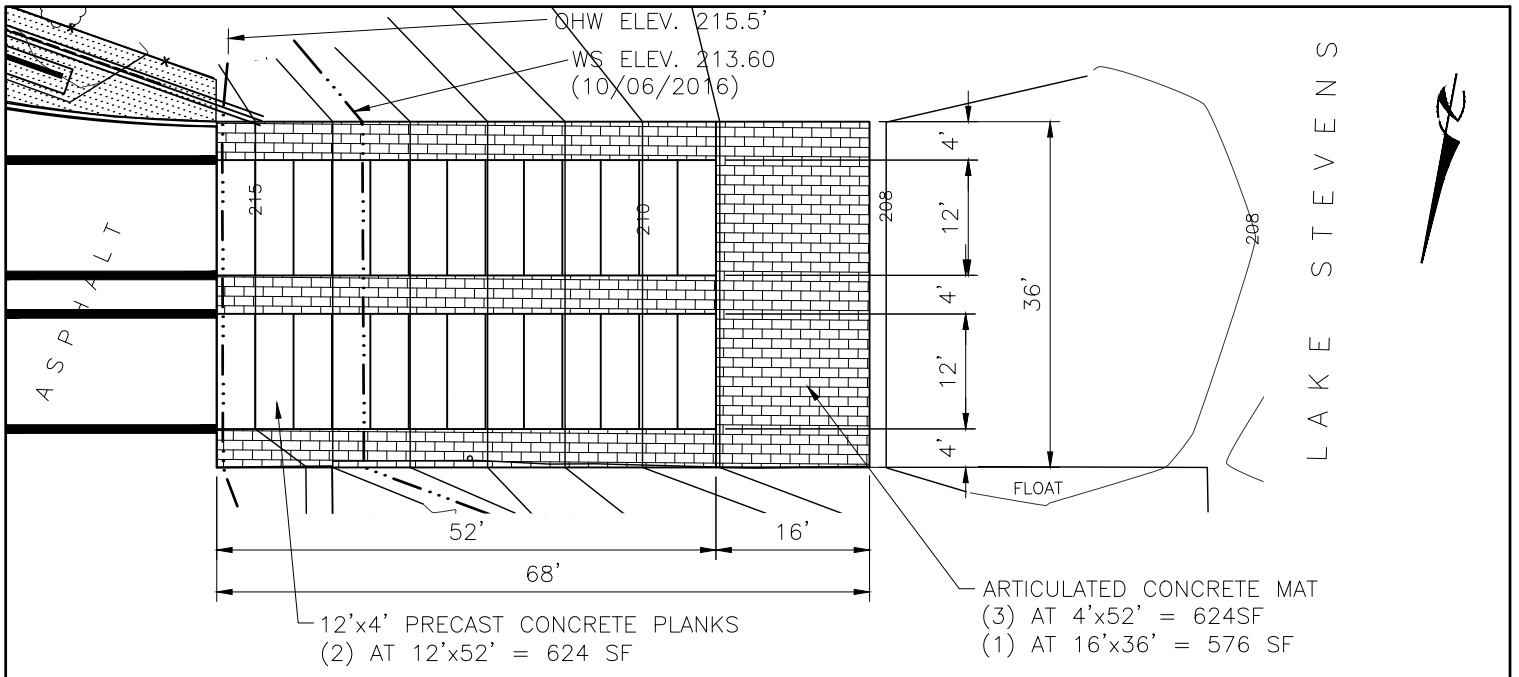
**NOTES:**

1. USE BERM MATERIAL TO FILL PROPWASH HOLE
2. USE QUARRY SPALLS FOR ADDITIONAL FILL OF HOLE
3. ALL EXCESS MATERIAL TO BE REMOVED FROM SITE
4. TOTAL AREA OF IMPACT = RAMP, HOLE AND BERM AREA = 6272 SF
5. TOTAL AREA OF NEW RAMP IMPACT = PLANK AND MAT = 1824 SF
6. MATS ARE PERVIOUS WITH 20% OPEN SPACE

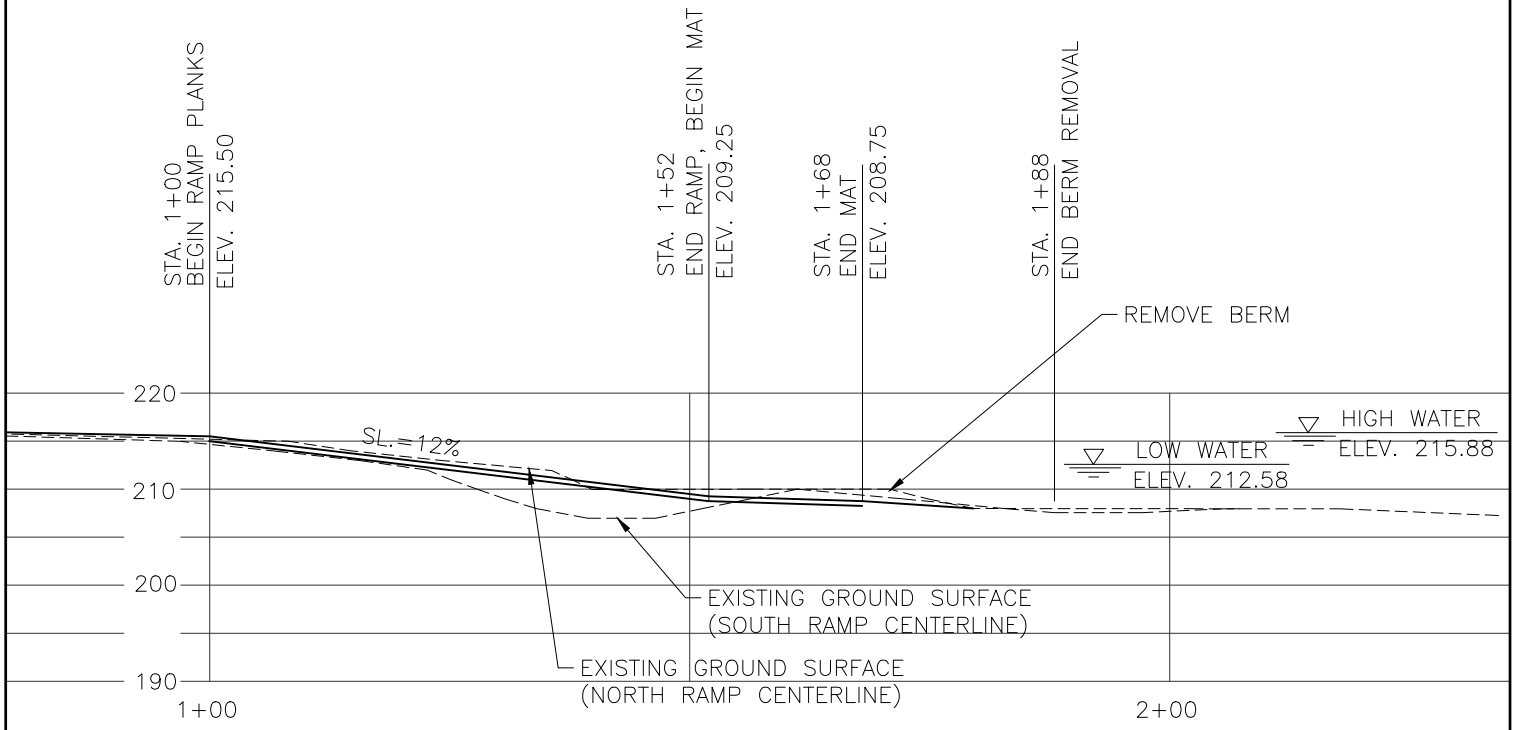
**PROJECT SCOPE:**

1. INSTALL TURBIDITY CURTAIN AND WATTLE LOG MITIGATION.
2. REMOVE OLD CONCRETE RAMP. REGRADE PROFILE BY REMOVING BERM AND FILLING PROPWASH HOLE.
3. INSTALL NEW PRECAST CONCRETE PLANK DOUBLE RAMP WITH ARTICULATED MAT EROSION CONTROL AT SHOULDERS AND BOTTOM.
4. CUT ASPHALT AT SOUTH PROPERTY LINE AND INSTALL 13' WIDE BIOFILTRATION MITIGATION AREA #1. CLEAR, GRUB, AND INSTALL NATIVE VEGETATION.
5. INSTALL NATIVE VEGETATION IN MITIGATION AREA 2.
6. RESURFACE ASPHALT PAVEMENT WITH NEW ASPHALT AND STRIPE.
7. REPLACE FENCE ON NORTH AND SOUTH PROPERTY LINE WITH NEW 6' HIGH SLATTED CHAIN LINK FENCE.
8. REPLACE FAILED 12" CONC. STORMDRAIN PIPE WITH NEW 12" HDP PIPE.
9. INSTALL NEW KIOSK.

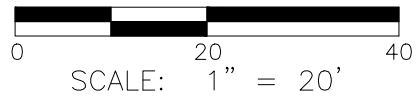
REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 NORTH COVE ACCESS SITE RENOVATION  
 LOCATION: LAKE STEVENS ACCESS  
 SHEET 3 OF 7 DATE: 01/12/2017



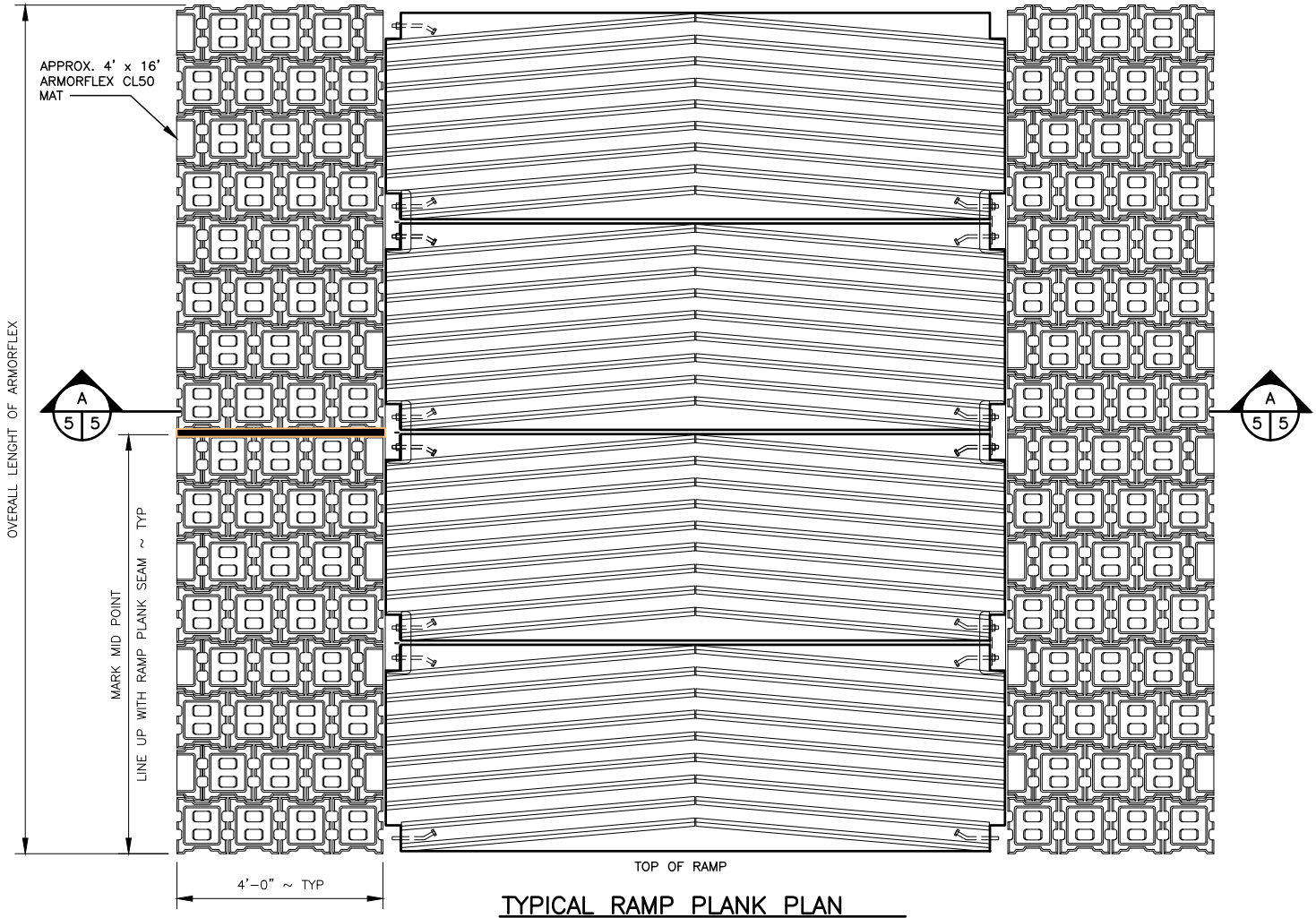
**RAMP PLAN**  
 SCALE: 1" = 20'



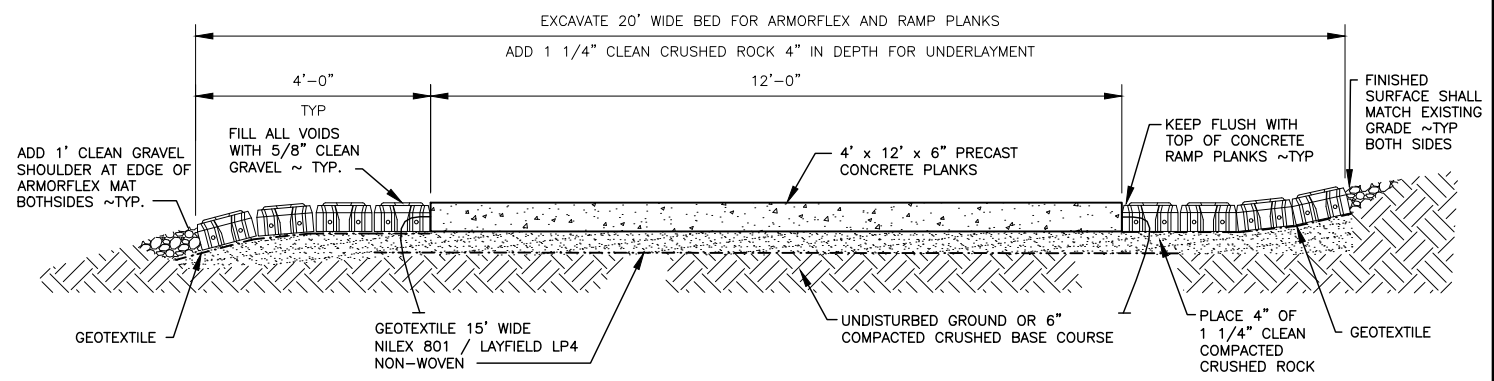
**RAMP PROFILE**  
 SCALE: 1" = 20'



REFERENCE NUMBER:  
 APPLICANT NAME:  
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 PROPOSED PROJECT:  
 NORTH COVE ACCESS SITE RENOVATION  
 LOCATION: LAKE STEVENS ACCESS  
 SHEET 4 OF 7 DATE: 01/12/2017

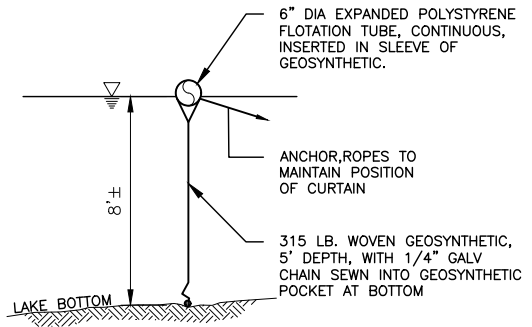
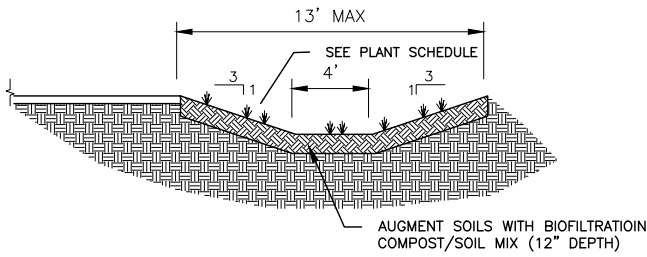


**TYPICAL RAMP PLANK PLAN**  
NOT TO SCALE



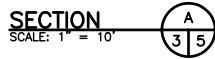
**RAMP PLANK**  
NOT TO SCALE

REFERENCE NUMBER:  
 APPLICANT NAME:  
 WASHINGTON DEPT. of FISH & WILDLIFE  
 PROPOSED PROJECT:  
 NORTH COVE ACCESS SITE RENOVATION  
 LOCATION: LAKE STEVENS ACCESS  
 SHEET 5 OF 7 DATE: 01/12/2017

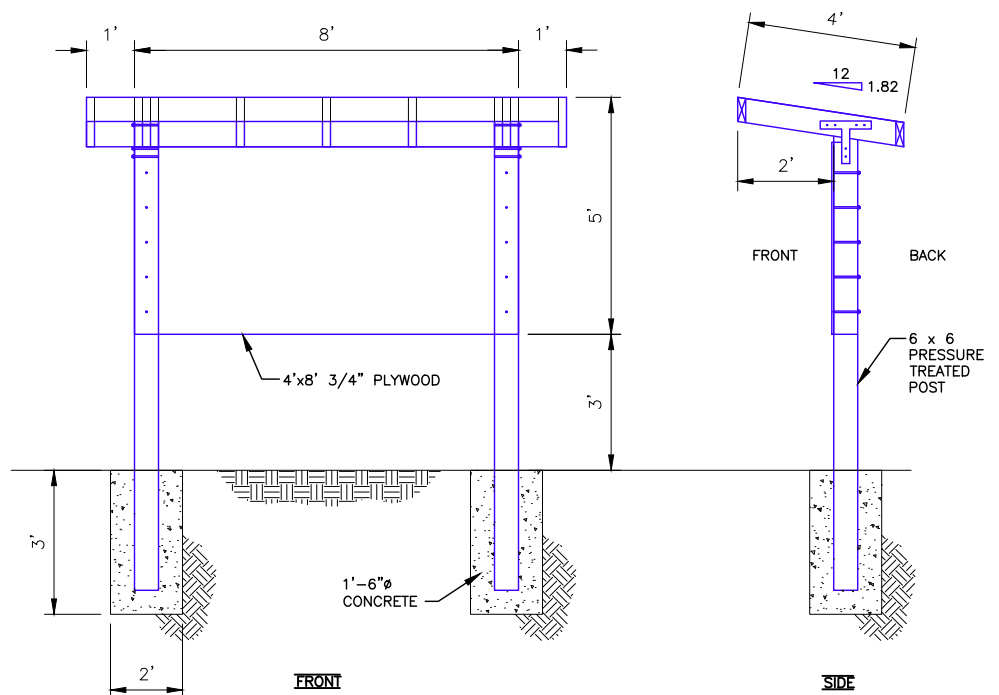


**NOTES:**  
 STAKE BIOSWALE WITH COIR LOG DAMS @  
 30" O.C. REMOVE AFTER CONSTRUCTION.

- NOTES:**
1. SILT CURTAIN AVAILABLE FROM NORTHWEST LININGS, KENT, WA.
  2. GEOSYNTHETIC SHALL BE PERMEATEX 2315 OR EQUAL.



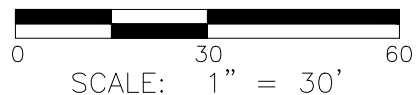
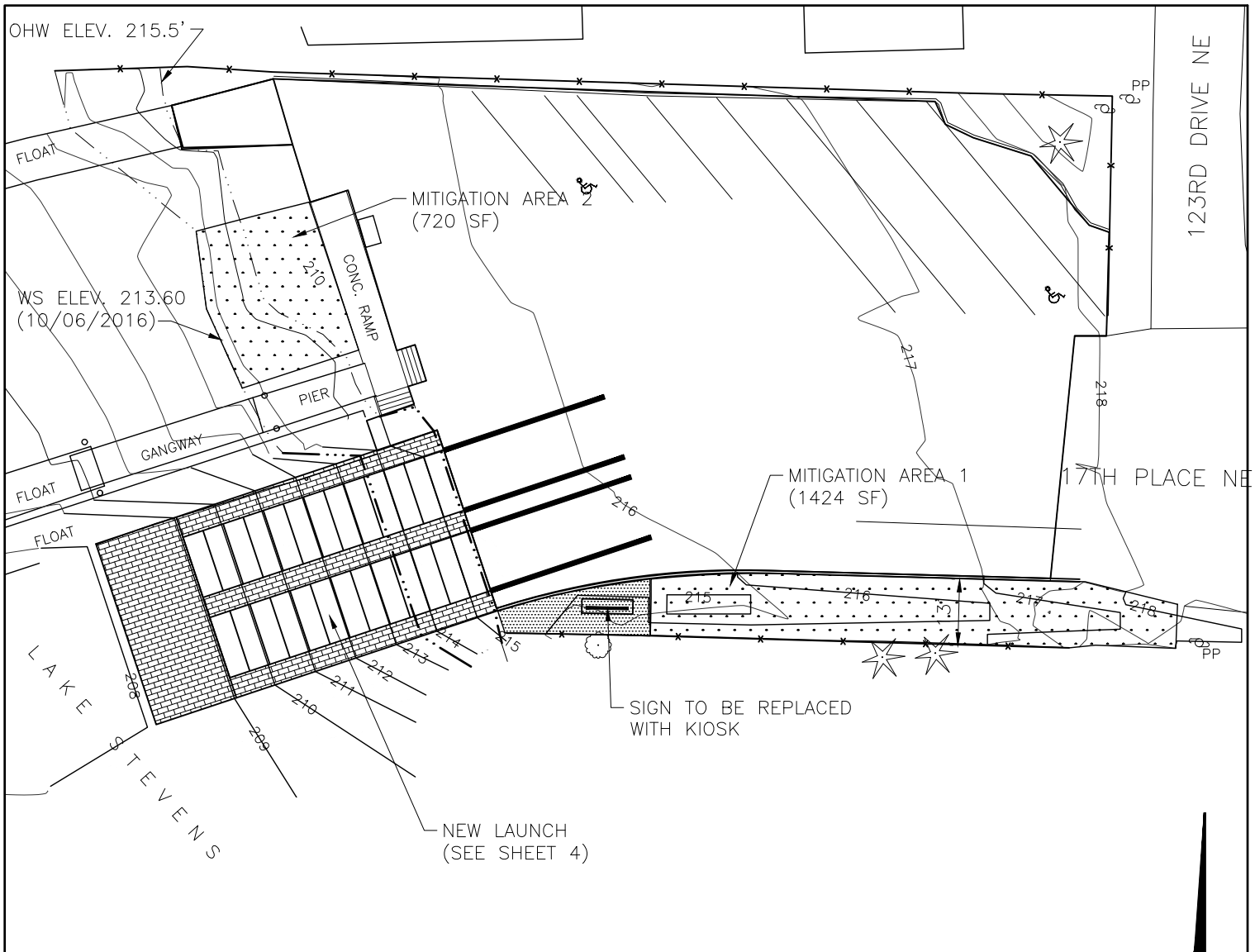
**TURBIDITY CURTAIN**  
 NOT TO SCALE



**INFORMATION KIOSK #BBK-2**  
 NOT TO SCALE

- NOTE:**
1. POST TO BE PLUMB AND LEVEL ALL DIRECTIONS
  2. ASSEMBLY OF POSTS, PLYWOOD, ROOF AND INSTALLATION BY CONTRACTOR.
  3. KIOSK PACKAGE BBK-2 DNR SIGN STANDARD

REFERENCE NUMBER:  
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 SHEET 6 OF 7 DATE: 01/12/2017



**SITE PLAN**  
SCALE: 1" = 30'



**Mitigation Area 1**

Species	Size	Quantity	Spacing	Notes
Sod	224 sf	-	-	
Quaking Aspen	3 gallon	9	12' on center	Along edge of asphalt only
Slough Sedge	Plug	350	12" on center	
Sawbeak Sedge	Plug	150	12" on center	
Daggerleaf Rush	Plug	350	12" on center	
Slender Rush	Plug	150	12" on center	

**Mitigation Area 2**

Species	Size	Quantity	Spacing	Notes
Nootka Rose	1 gallon	12	3' on center	Planted above OHWM
Twinberry	1 gallon	15	5' on center	Planted above OHWM
Hardstem Bullrush	6"	8	24" on center	Plant around existing plants
Slough Sedge	Plug	35	24" on center	Plant around existing plants
Slender Rush	Plug	35	24" on center	Plant around existing plants

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