

VICINITY MAP
NOT TO SCALE

DIRECTIONS
FROM OLYMPIA, WA : FOLLOW I-5 N, WA-18 E AND I-90 TO WA-26 E IN GRANT COUNTY. TAKE EXIT 137 FROM I-90 E, CONTINUE ON WA-26 E TO COLUMBIA COUNTY. FOLLOW US-12 E TO 15TH ST IN CLARKSTON, ASOTIN COUNTY. TAKE WA-129 S TO SNAKE RIVER ROAD. DRIVE APPROXIMATELY 29.6 MILES TO SITE LOCATION. FACILITY WILL BE ON LEFT.

ENG. PROJECT NO. AN:A613:16-1

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

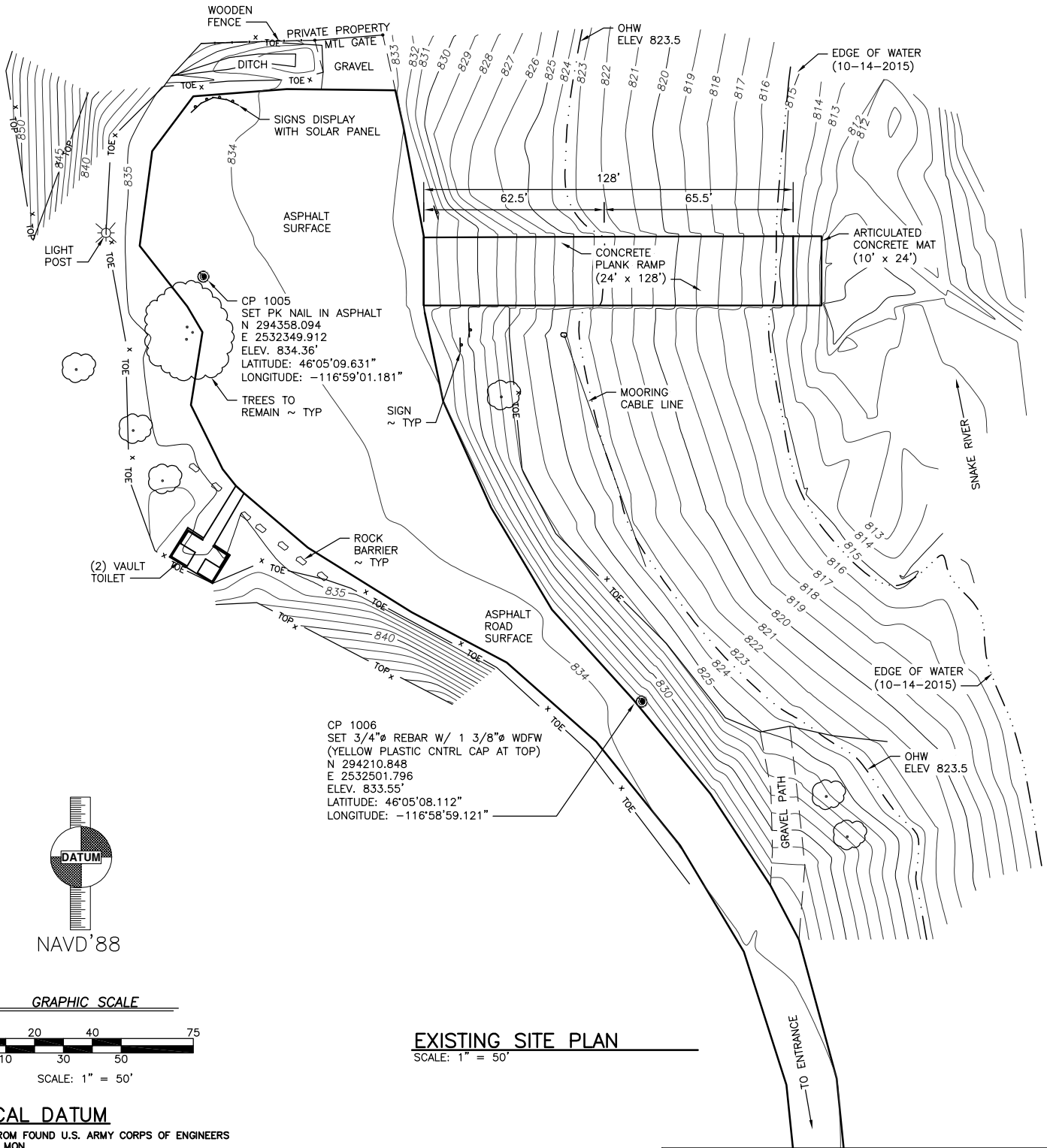
PROJECT LOCATION (ADDRESS):
 HELLER BAR ACCESS
 35947-40687 SNAKE RIVER RD
 ASOTIN, WA 99402

PROPOSED PROJECT:
 ACCESS SITE RENOVATION

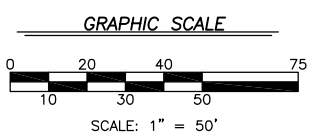
ADJACENT PROPERTY OWNER:
 1. HELLS CANYON RESORT
 2

LAT/LONG: 46°05'08.0"N 116°58'59.1"W
 DATUM:
 SHEET 1 OF 7 DATE: 3/21/2016

IN: SNAKE RIVER
 NEAR/AT: ROSEBURG
 COUNTY: ASOTIN
 STATE: WA



NAVD'88



SCALE: 1" = 50'

EXISTING SITE PLAN

SCALE: 1" = 50'

VERTICAL DATUM
 NAVD 88 FROM FOUND U.S. ARMY CORPS OF ENGINEERS
 BRASS CAP MON.
 DESIGNATION B 143
 PID RZ0289
 ELEV. PER NGS DATA SHEET

BASIS OF BEARINGS
 NAD 83/2011 FROM FOUND U.S. ARMY CORPS
 OF ENGINEERS BRASS CAP MON.
 DESIGNATION B 143
 PID RZ0289
 SPC WA STATE SOUTH ZONE COORDINATES
 PER NGS DATA SHEET

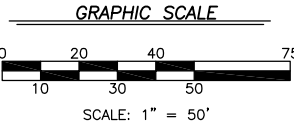
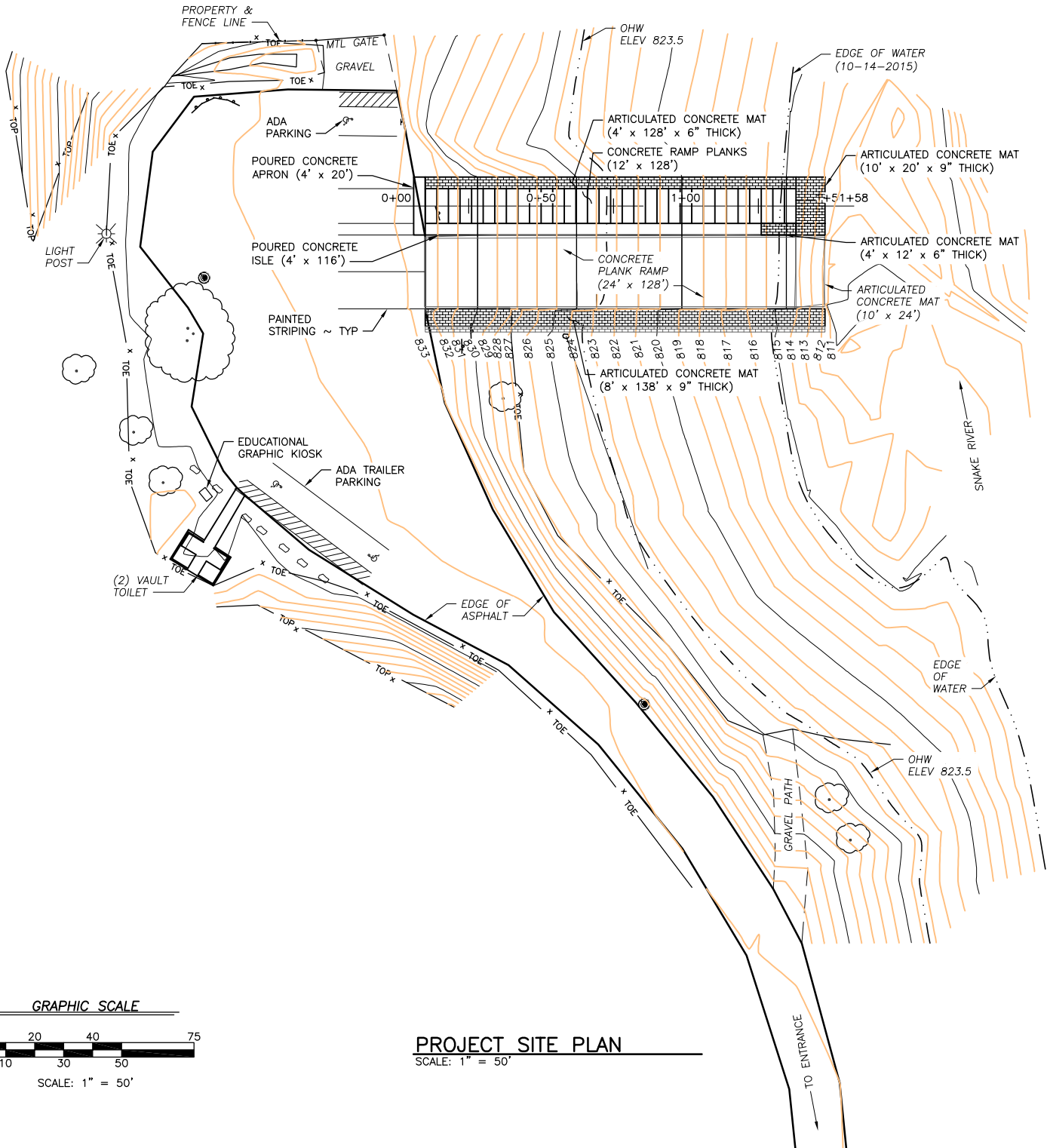
ENG. PROJECT NO. AN:A613:16-1

REFERENCE NUMBER:
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WASHINGTON DEPT. of FISH & WILDLIFE

PROPOSED PROJECT:
HELLER BAR ACCESS SITE RENOVATION

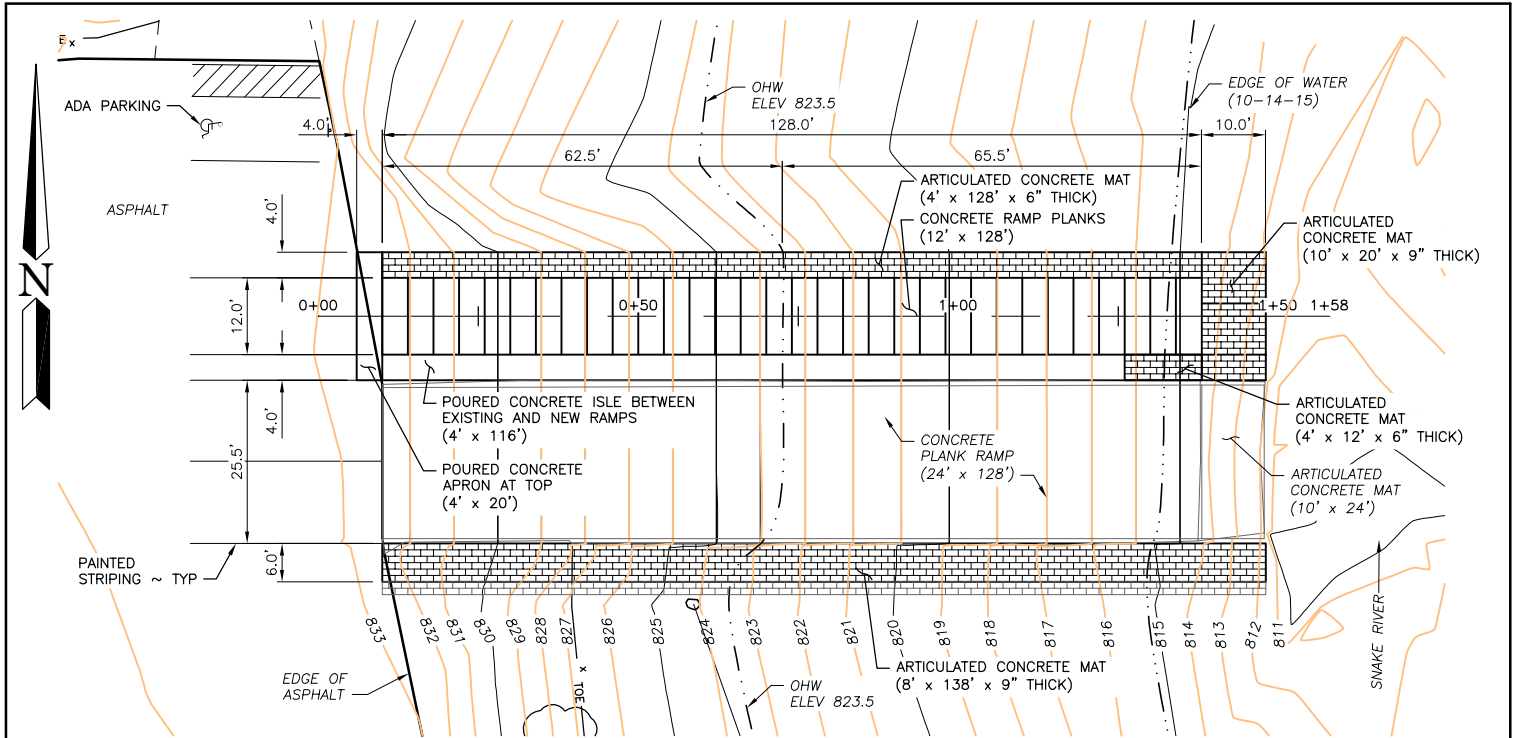
LOCATION: SNAKE RIVER

SHEET 2 OF 7 DATE: 3/21/2016



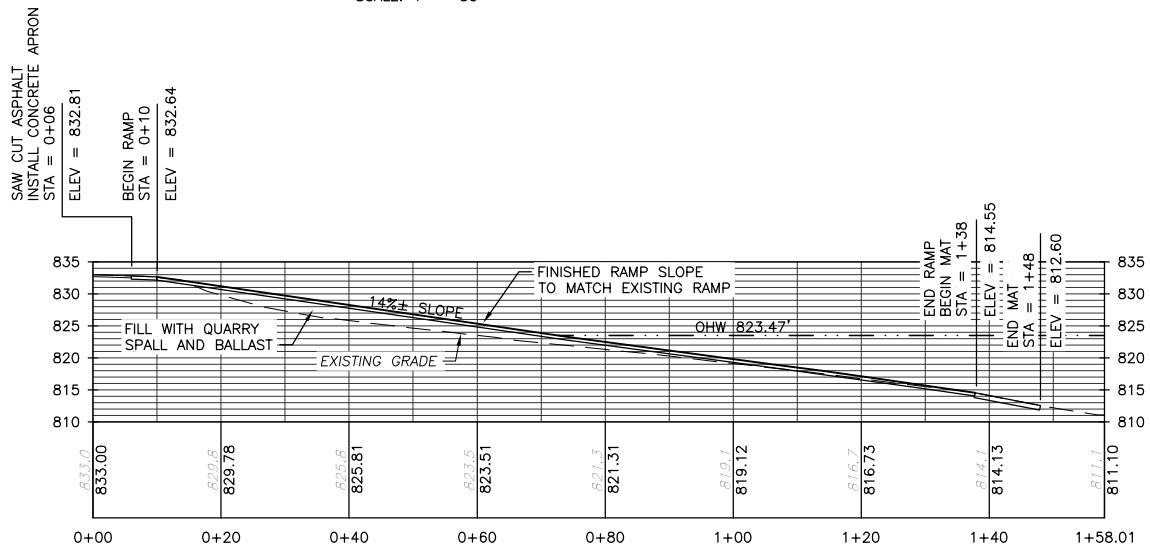
PROJECT SITE PLAN
SCALE: 1" = 50'

REFERENCE NUMBER:
 APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
 PROPOSED PROJECT:
HELLER BAR ACCESS SITE RENOVATION
 LOCATION: SNAKE RIVER
 SHEET 3 OF 7 DATE: 3/21/2016



RAMP AREA PLAN

SCALE: 1" = 30'

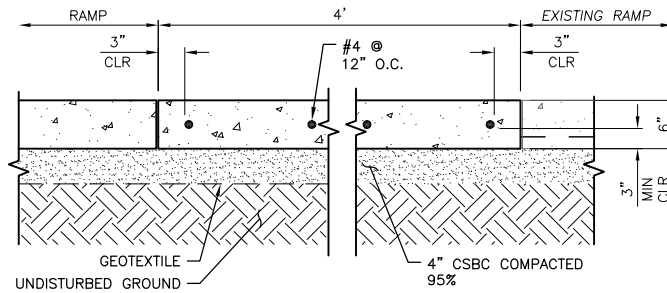


BOAT RAMP PROFILE

SCALE: 1" = 30'

QUANTITIES				
MATERIAL	ABOVE OHW		BELOW OHW	
	AREA (SF)	VOLUME (CY)	AREA (SF)	VOLUME (CY)
RAMP PLANKS	750	13.9	786	14.6
ACM (6" BLOCK)	560	10.4		
CONCRETE ISLE	250	4.6	214	4.9
SUBGRADE MATERIAL	CUT	-6.5		-14.2
	FILL	+76.8		4.5
ACM (9" BLOCK)	375	13.9	673	22.3
TOTAL	1935	113.1	1673	32.1

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 SHEET 4 OF 7 DATE: 3/21/2016

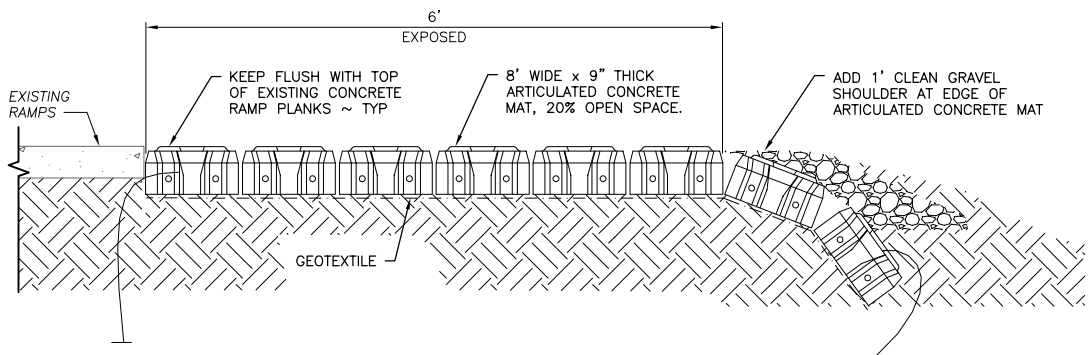


POURED CONCRETE ISLE / APRON

NOT TO SCALE

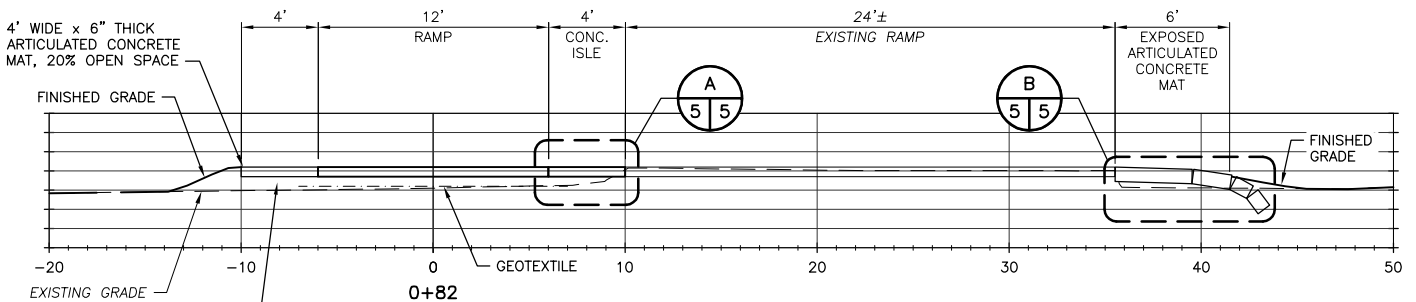


NOTE:
STOP CONCRETE POUR 5' ABOVE WATER LINE. IN-WATER ISLE SHALL BE PRE-CAST ARTICULATED CONCRETE MAT.



EDGE OF ARTICULATED CONCRETE MAT

NOT TO SCALE



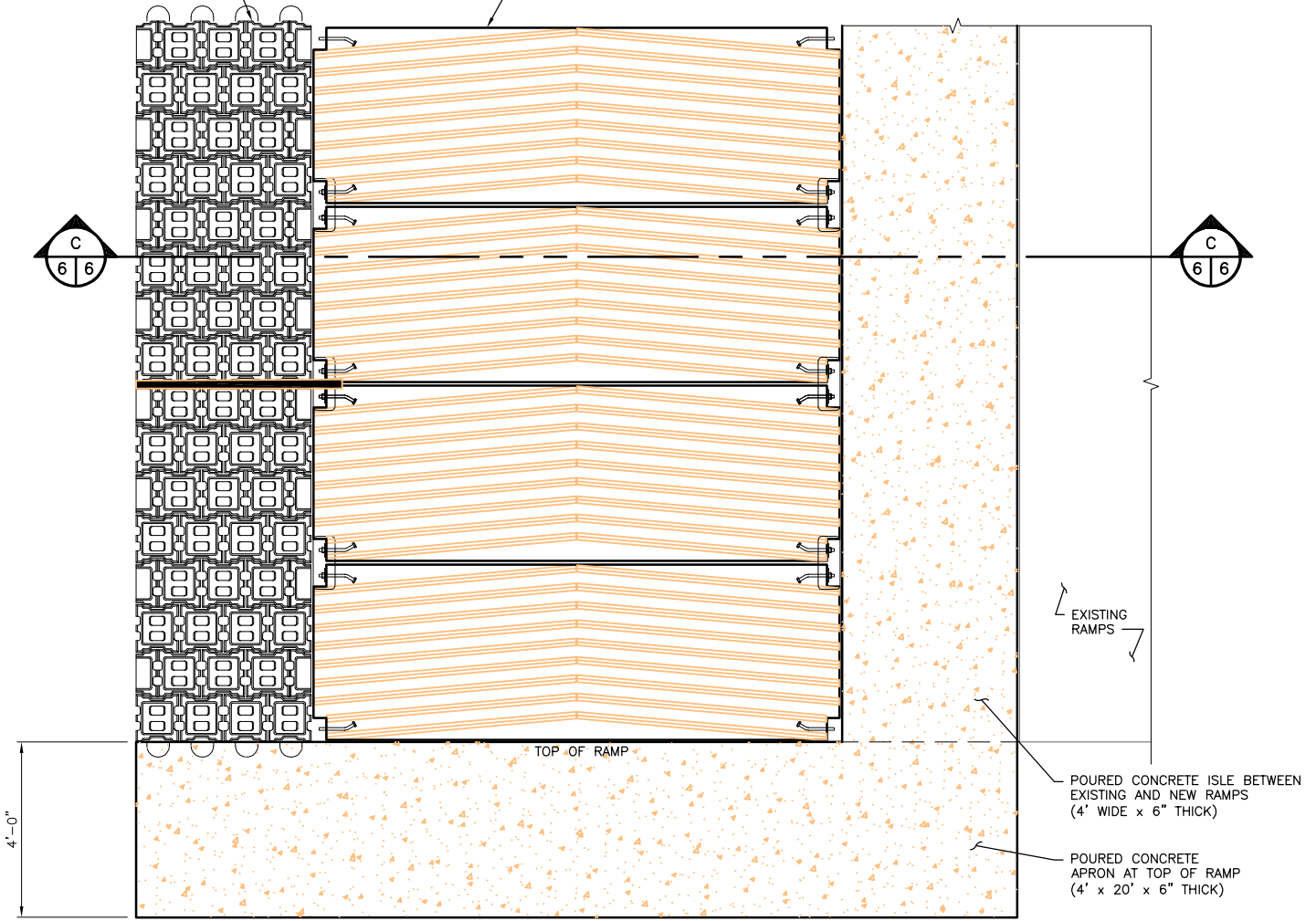
RAMP SECTION

SCALE: 1" = 10'

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HELLER BAR ACCESS SITE RENOVATION
 LOCATION: SNAKE RIVER
 SHEET 5 OF 7 DATE: 3/21/2016

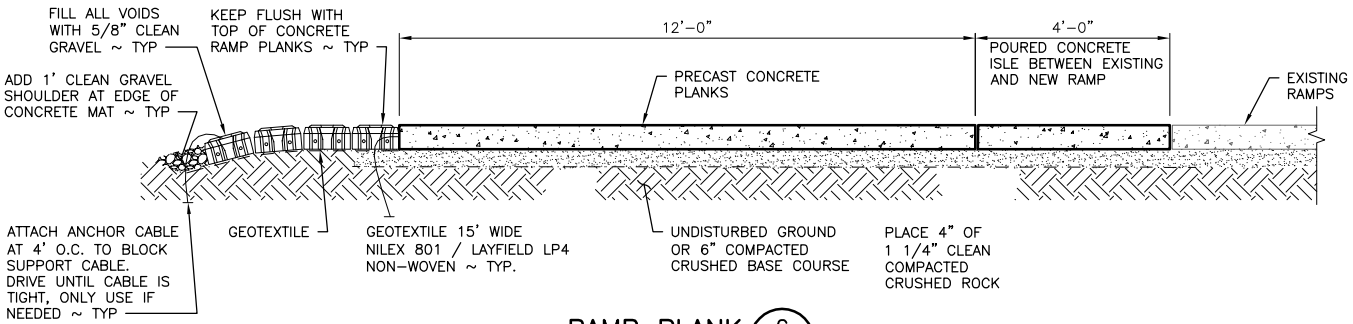
ARTICULATED
CONCRETE MAT,
20% OPEN SPACE
(4' WIDE x 6" THICK)

PRECAST CONCRETE PLANK
(4' x 12' x 6")



RAMP PLANK PLAN

NOT TO SCALE



RAMP PLANK

NOT TO SCALE



NOTE:
SEE SITE PLAN FOR SIZE AND LAYOUT
OF ARTICULATED CONCRETE MATS

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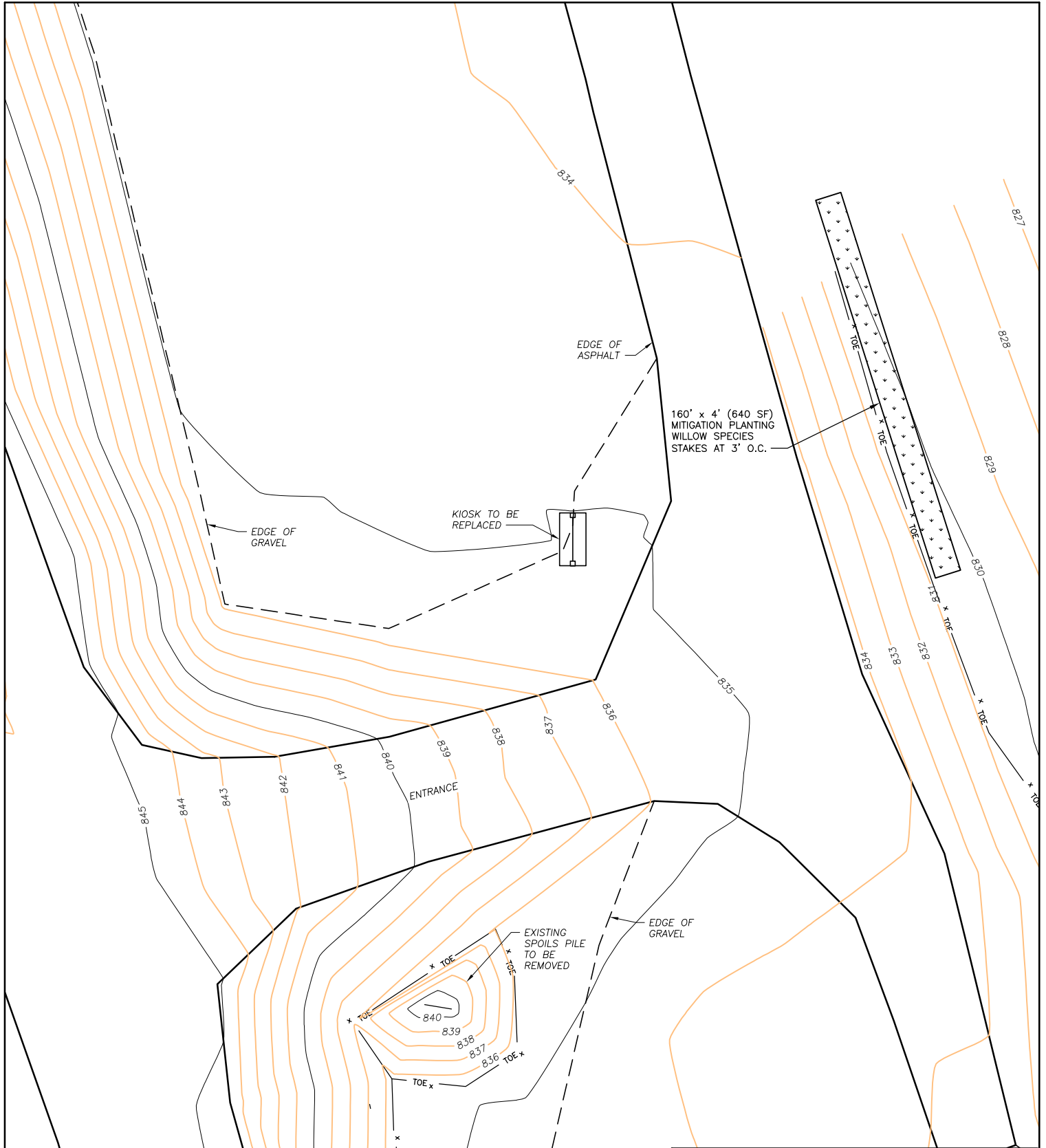
PROPOSED PROJECT:

HELLER BAR ACCESS SITE RENOVATION

LOCATION: SNAKE RIVER

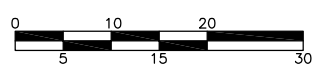
SHEET 6 OF 7

DATE: 3/21/2016



PLANTING PLAN

SCALE: 1" = 20'



SCALE: 1" = 20'

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 SHEET 7 OF 7 DATE: 3/21/2016