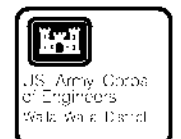


- NOTES
1. A MULTIBEAM BATHYMETRIC SURVEY OF RIVER MILE 116 WAS CONDUCTED BY TERRASOND LTD. ON FEBRUARY 27-28, 2015
 2. HORIZONTAL DATUM IS NAD27, PROJECTION IS WASHINGTON STATE PLANE SOUTH, VERTICAL DATUM IS NGVD29. ALL UNITS ARE IN US SURVEY FEET
 3. HORIZONTAL AND VERTICAL POSITIONING WAS PROVIDED BY REAL-TIME KINEMATIC (RTK) GPS. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION USING A TRIMBLE R8 GPS RECEIVER ON CONTROL POINT "RM-116-01"
 4. BATHYMETRIC DATA COLLECTION WAS CONDUCTED USING AN R2 SONIC 2024 MULTIBEAM ECHOSOUNDER, CODA OCTOPUS F185 INERTIAL NAVIGATION SYSTEM, AML SVPLUS SOUND VELOCITY PROBE, AND QINSY V8.1 ACQUISITION SOFTWARE. DATA WAS PROCESSED USING CARIS HIPS V8.1
 5. CONTOURS SHOWN HEREON WERE GENERATED FROM A 3-FOOT HORIZONTAL RESOLUTION DATASET USING INVERSE WEIGHTED MEAN OF ALL SOUNDINGS WITHIN A 3-FOOT X 3-FOOT CELL
 6. PLOTTED SOUNDINGS REPRESENT THE SHALLOWEST DEPTH IN THE 3-FOOT X 3-FOOT CELL. A SHOAL BIASED SORT OF THE MEAN SOUNDINGS WAS PERFORMED USING A 50 FOOT SORT RADIUS
 7. THIS MAP REPRESENTS CONDITIONS AT THE TIME OF THE SURVEY

HORIZONTAL AND VERTICAL CONTROL

RM-116-01 N 471,696.49 E 2,789,532.45 ELEV. 745.33	RM-116-03 N 470,022.40 E 2,806,568.79 ELEV. 744.94
RM-116-02 N 469,646.65 E 2,802,866.22 ELEV. 748.42	BM F-419 N 471,709.48 E 2,797,621.69 ELEV. 747.36



Date	Author	Symbol	Description

DATE: 3 MAR 2015	TIME: 10:00 AM
PROJECT: RM 116	SCALE: 1" = 400'
DRAWN BY: [Name]	CHECKED BY: [Name]
SUBMITTED BY: [Name]	DATE: [Date]

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WASHINGTON, WA

TERRASOND
BATHYMETRIC SURVEYING

COVER GRAVE LOCK AND DAM
1800 E. EVERETT WAY, WASH. 98148
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RM 116
DREDGED MATERIAL DISPOSAL SITE
POST-DEPOSITION SURVEY

Sheet number
V-001
Sheet 1 of 3

