NOTES

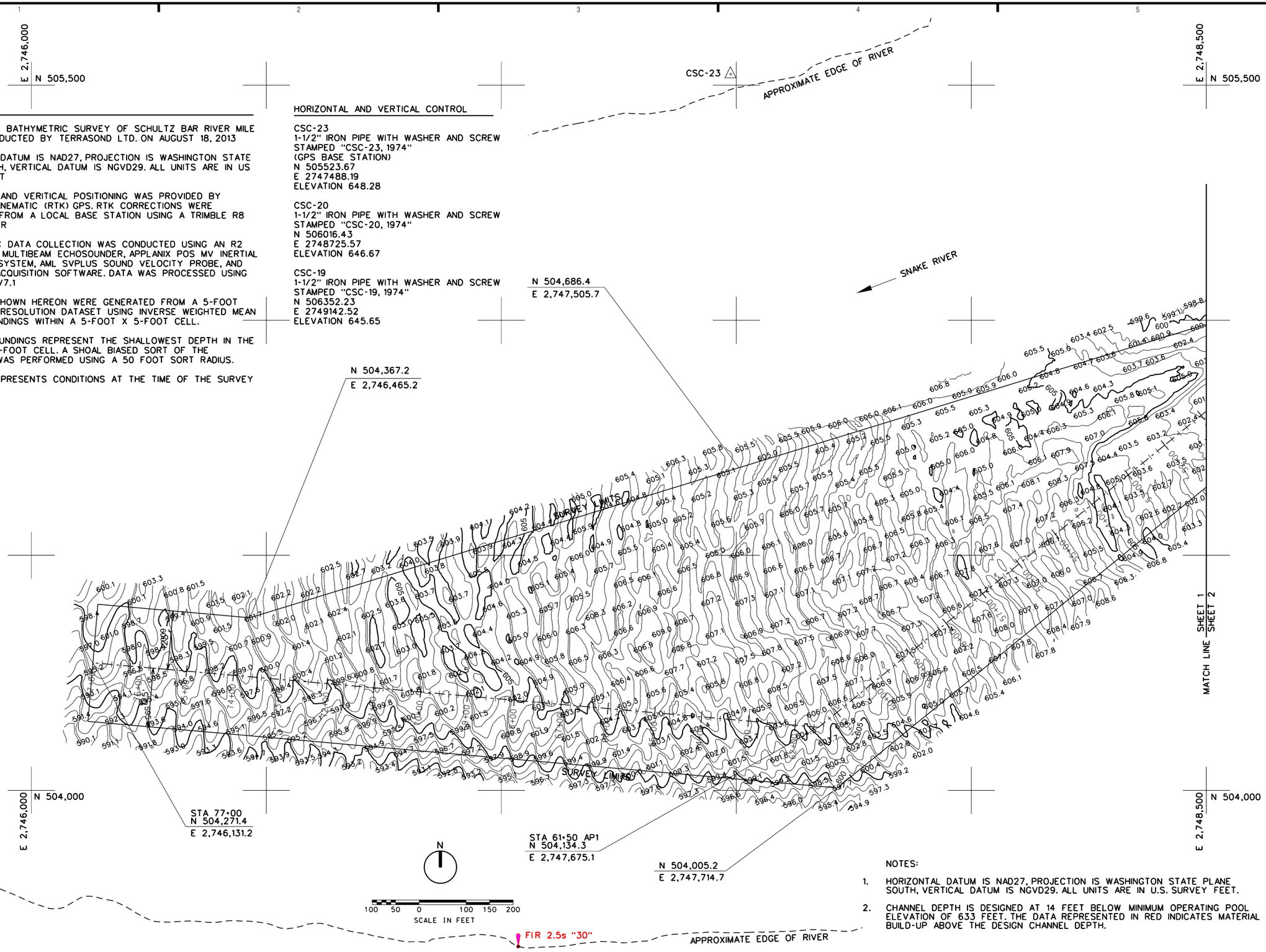
1. A MULTIBEAM BATHYMETRIC SURVEY OF SCHULTZ BAR RIVER MILE 101 WAS CONDUCTED BY TERRASOND LTD. ON AUGUST 18, 2013
2. HORIZONTAL DATUM IS NAD27, PROJECTION IS WASHINGTON STATE PLANE SOUTH, VERTICAL DATUM IS NGVD29. ALL UNITS ARE IN US SURVEY FEET
3. HORIZONTAL AND VERITICAL POSITIONING WAS PROVIDED BY REAL-TIME KINEMATIC (RTK) GPS. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION USING A TRIMBLE R8 GPS RECEIVER
4. BATHYMETRIC DATA COLLECTION WAS CONDUCTED USING AN R2 SONIC 2024 MULTIBEAM ECHOSOUNDER, APPLANIX POS MV INERTIAL NAVIGATION SYSTEM, AML SVPLUS SOUND VELOCITY PROBE, AND QINSY V8.1 ACQUISITION SOFTWARE. DATA WAS PROCESSED USING CARIS HIPS V7.1
5. CONTOURS SHOWN HEREON WERE GENERATED FROM A 5-FOOT HORIZONTAL RESOLUTION DATASET USING INVERSE WEIGHTED MEAN OF ALL SOUNDINGS WITHIN A 5-FOOT X 5-FOOT CELL.
6. PLOTTED SOUNDINGS REPRESENT THE SHALLOWEST DEPTH IN THE 5-FOOT X 5-FOOT CELL. A SHOAL BIASED SORT OF THE SOUNDINGS WAS PERFORMED USING A 50 FOOT SORT RADIUS.
7. THIS MAP REPRESENTS CONDITIONS AT THE TIME OF THE SURVEY

HORIZONTAL AND VERTICAL CONTROL

CSC-23
1-1/2" IRON PIPE WITH WASHER AND SCREW
STAMPED "CSC-23, 1974"
(GPS BASE STATION)
N 505523.67
E 2747488.19
ELEVATION 648.28

CSC-20
1-1/2" IRON PIPE WITH WASHER AND SCREW
STAMPED "CSC-20, 1974"
N 506016.43
E 2748725.57
ELEVATION 646.67

CSC-19
1-1/2" IRON PIPE WITH WASHER AND SCREW
STAMPED "CSC-19, 1974"
N 506352.23
E 2749142.52
ELEVATION 645.65



NOTES:

1. HORIZONTAL DATUM IS NAD27, PROJECTION IS WASHINGTON STATE PLANE SOUTH, VERTICAL DATUM IS NGVD29. ALL UNITS ARE IN U.S. SURVEY FEET.
2. CHANNEL DEPTH IS DESIGNED AT 14 FEET BELOW MINIMUM OPERATING POOL ELEVATION OF 633 FEET. THE DATA REPRESENTED IN RED INDICATES MATERIAL BUILD-UP ABOVE THE DESIGN CHANNEL DEPTH.

US Army Corps of Engineers
Walla Walla District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

DATE: 11 OCTOBER 2013
TASK ORDER NO. 8
CONTRACT NO. W912EF-10-D-0002
DESIGNED BY: MEYER
DWN BY: LNL
CHKED BY: JFF
SUBMITTED BY:
FILE NO.:

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

TERRASOND
A DIVISION OF TERRASOND LTD.
801 NW 42ND STREET SUITE 215, SEATTLE, WA 98107
PHONE: (206) 782-7588 FAX: (206) 782-7589

LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, WASHINGTON
W912EF-10-D-0002, T.O. NO. 8
SCHULTZ BAR
RIVER MILE 101
MULTIBEAM BATHYMETRIC SURVEY

Plate number:
V-001

Sheet 1 of 2

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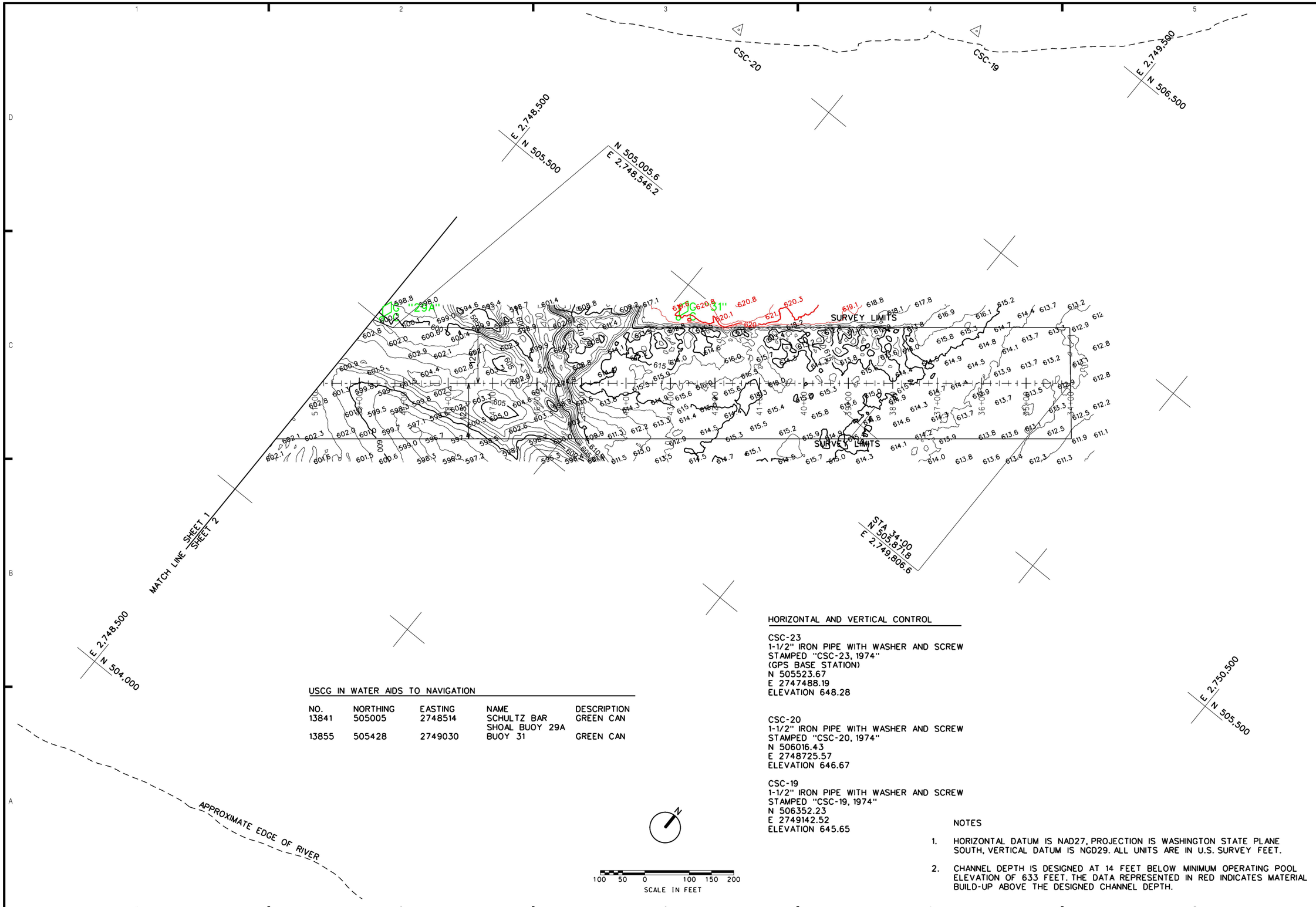

USCG IN WATER AIDS TO NAVIGATION

NO.	NORTHING	EASTING	NAME	DESCRIPTION
13841	505005	2748514	SCHULTZ BAR SHOAL BUOY 29A	GREEN CAN
13855	505428	2749030	BUOY 31	GREEN CAN

HORIZONTAL AND VERTICAL CONTROL

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STAMPED "CSC-23, 1974"
(GPS BASE STATION)
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US Army Corps of Engineers
Walla Walla District

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TASK ORDER NO. 8
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SUBMITTED BY:
FILE NO.:

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

TERRASOND
PACIFIC NORTHWEST HYDROGRAPHIC SURVEYS
801 NW ADAMS STREET, SUITE 211, BEAVERTON, OR 97207
PHONE: 503-644-0033 FAX: 503-644-0034

LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, WASHINGTON
W912EF-10-D-0002, T.O. NO. 8
SCHULTZ BAR
RIVER MILE 101
MULTIBEAM BATHYMETRIC SURVEY

Plate number:
V-002
Sheet 2 of 2

L:\Z_SURVEYS\00HYDRO_CONDITION\2013 HYDRO_CONDITION\LGA_SCHULTZ_BAR\OPERATIONS\V-HP-102.DGN

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