

NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
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The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: P0WS1 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF RIO VISTA
NOAA STATION: 9415316
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

Sheet Reference Number
1 of 45

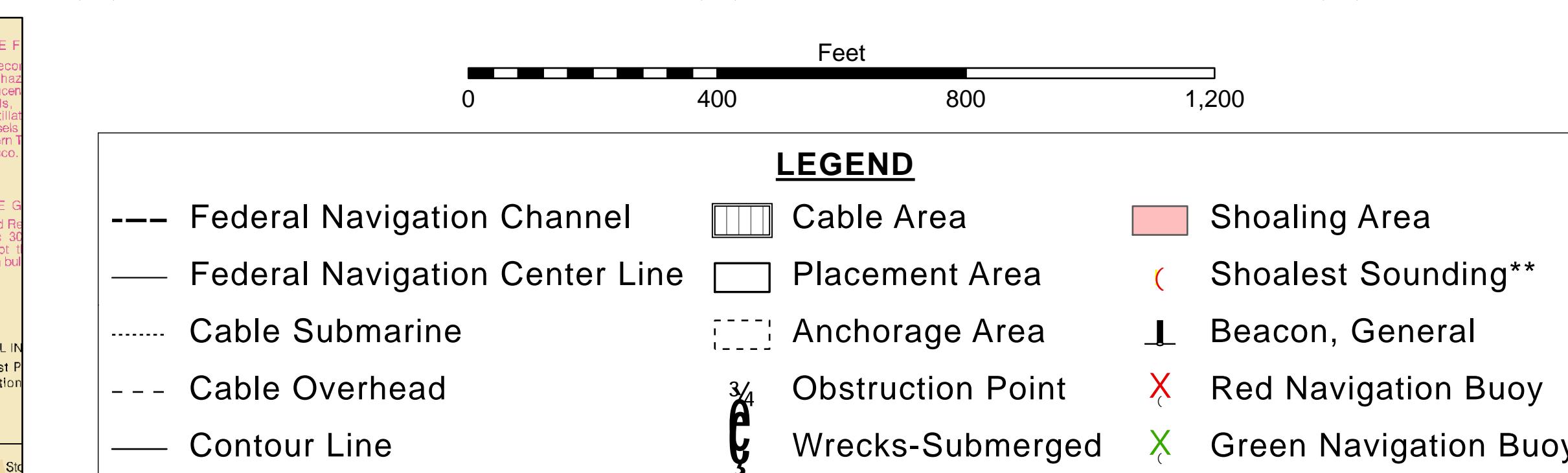
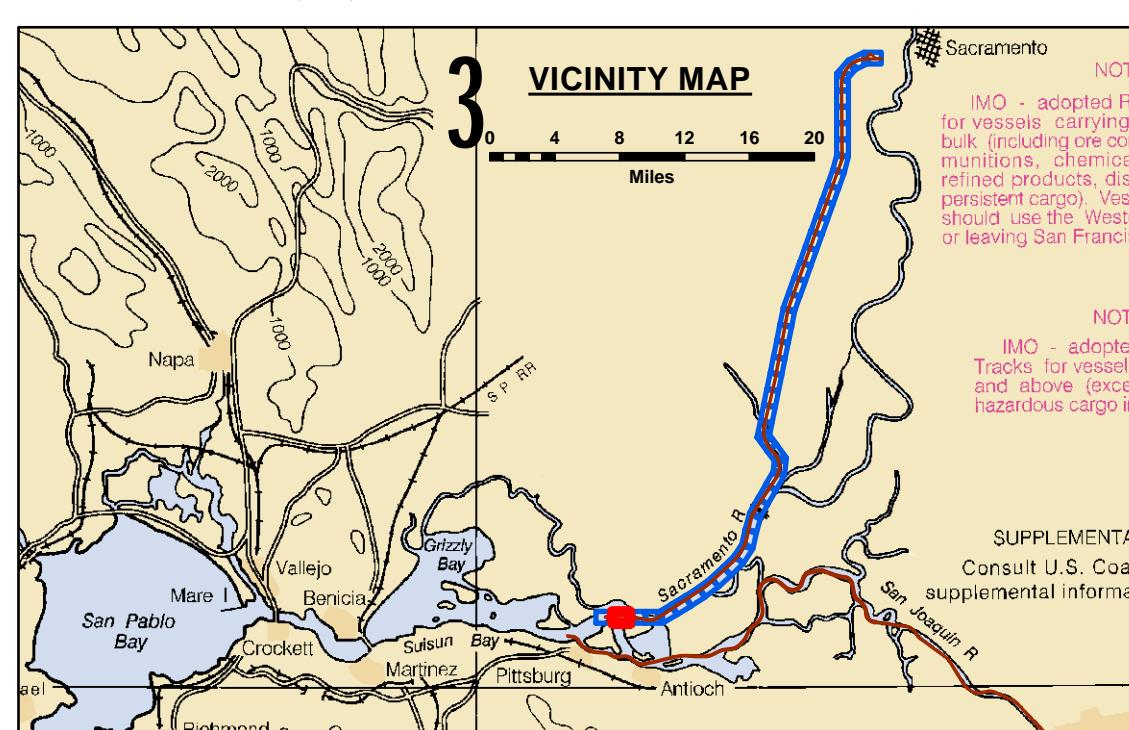
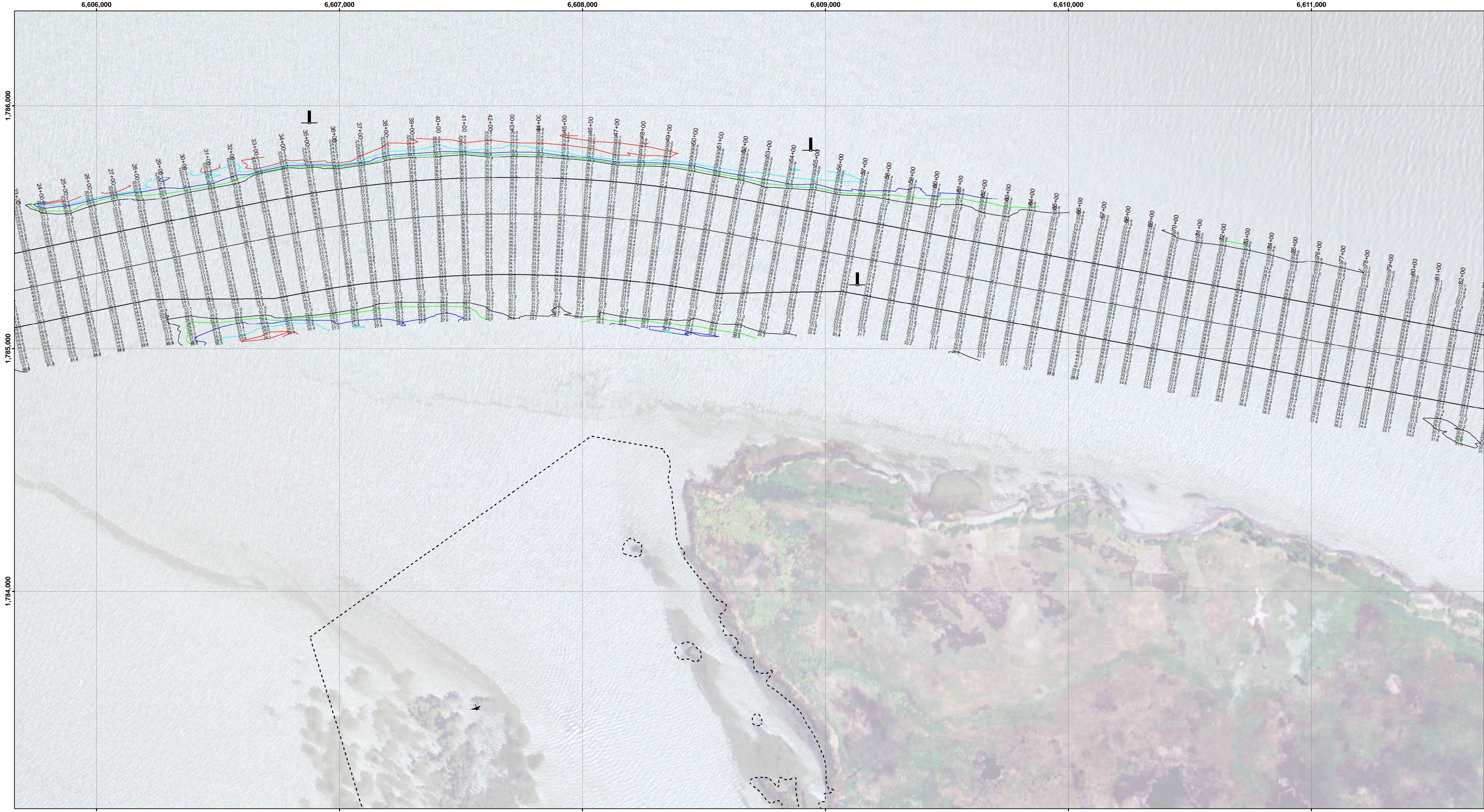
US Army Corps of Engineers
District: CESPK

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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW		Sep 04, 2015
LT COLONEL, C. DISTRICT ENGINEER		
Submitted:	Plotted By:	Designed by:
Hydro Survey Team Leader	PDT	
Recommended:		
Chief Hydro Survey Section		
Approved:		
Chief Construction Branch		

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
1 of 45



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Reference is N.O.A.A. Navigation Chart No. 18521.

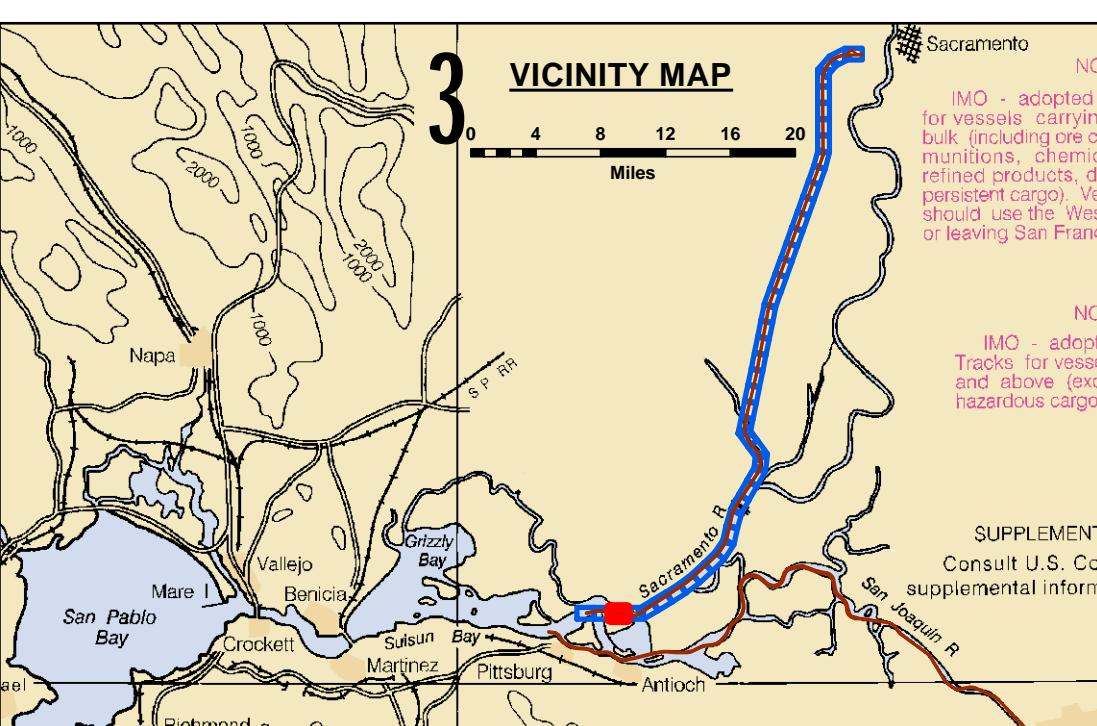
CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 94161316
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POW1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

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Project Depth -30'
Tide gauge
Equipment statement

Sheet Reference Number
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US Army Corps
of Engineers
District: CESPK

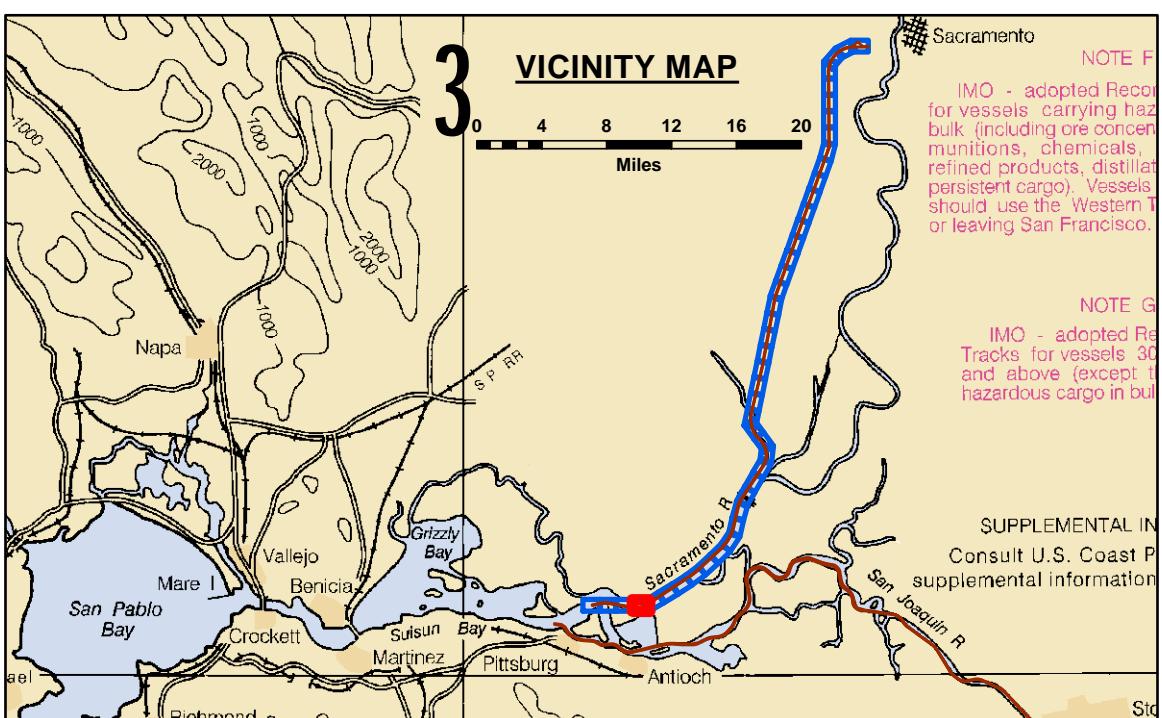
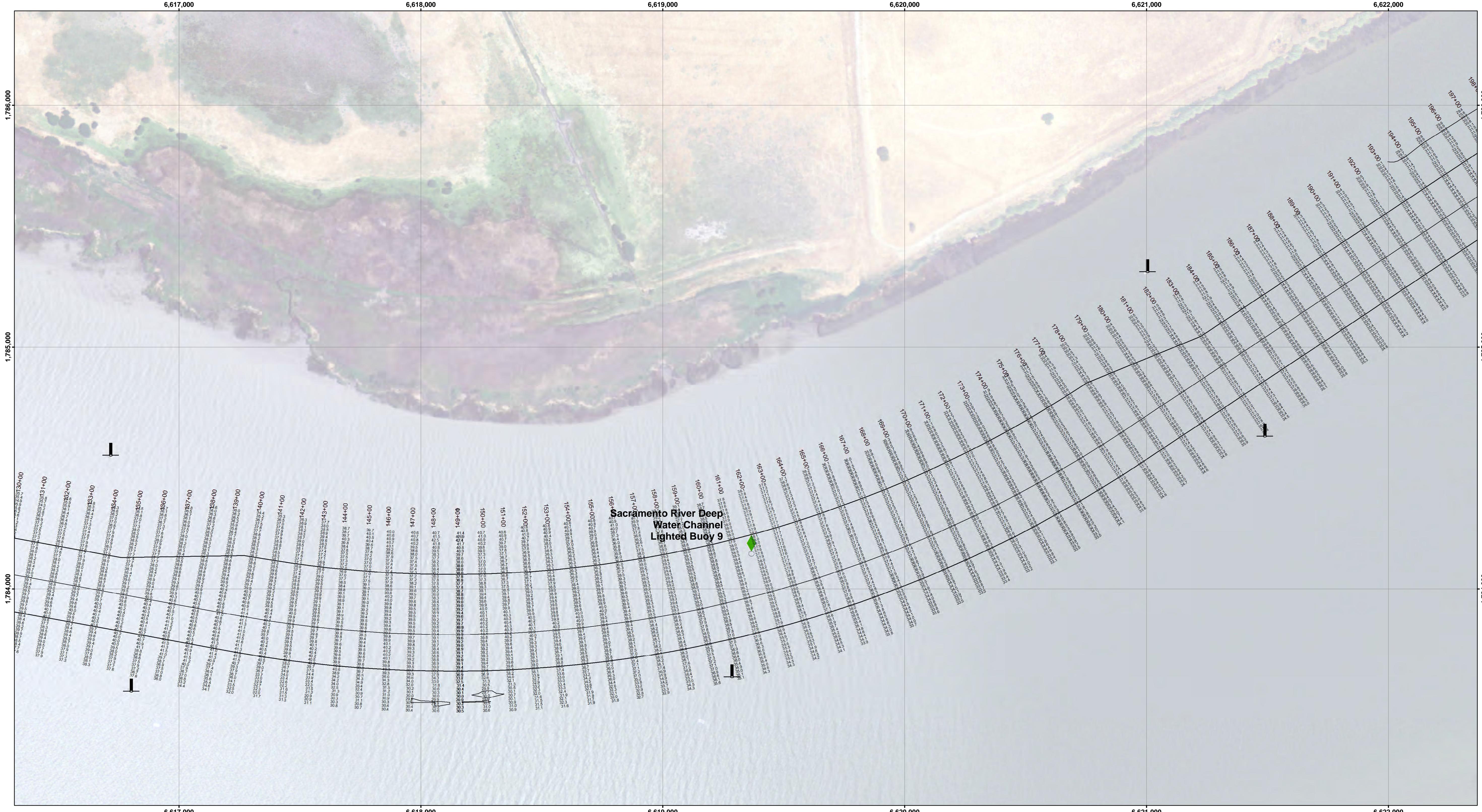
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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E. DISTRICT ENGINEER
Submitted: Hydro Survey Team Leader
Plotted By: PDT
Recommended: Chief, Hydro Survey Section
Checked By: PDT
Approved: Chief, Construction Branch

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

SAN JOAQUIN COUNTY
Sheet Reference Number
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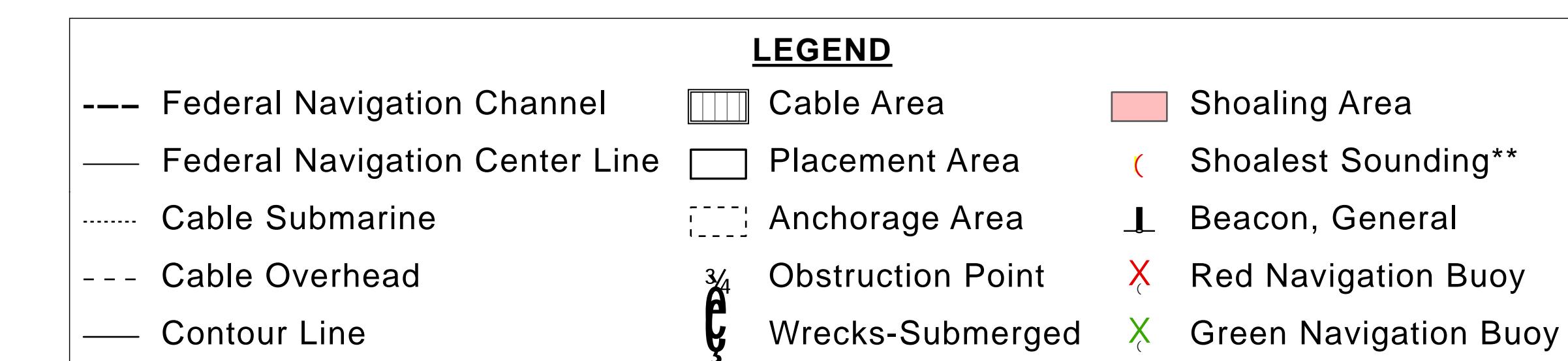
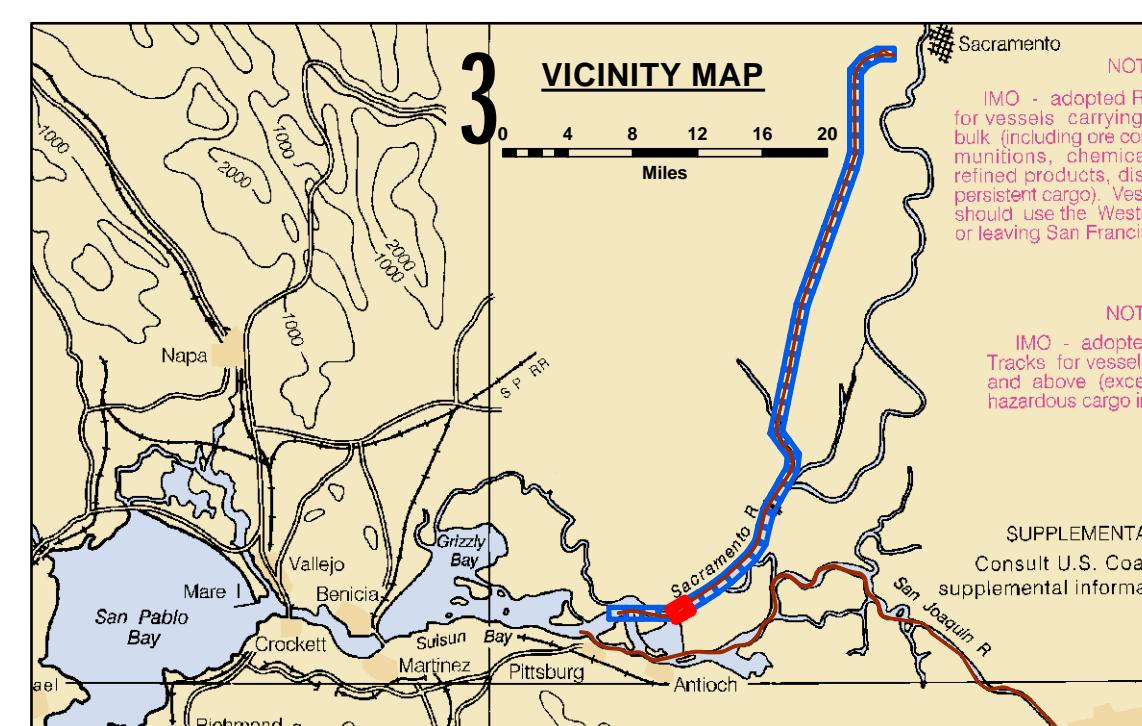
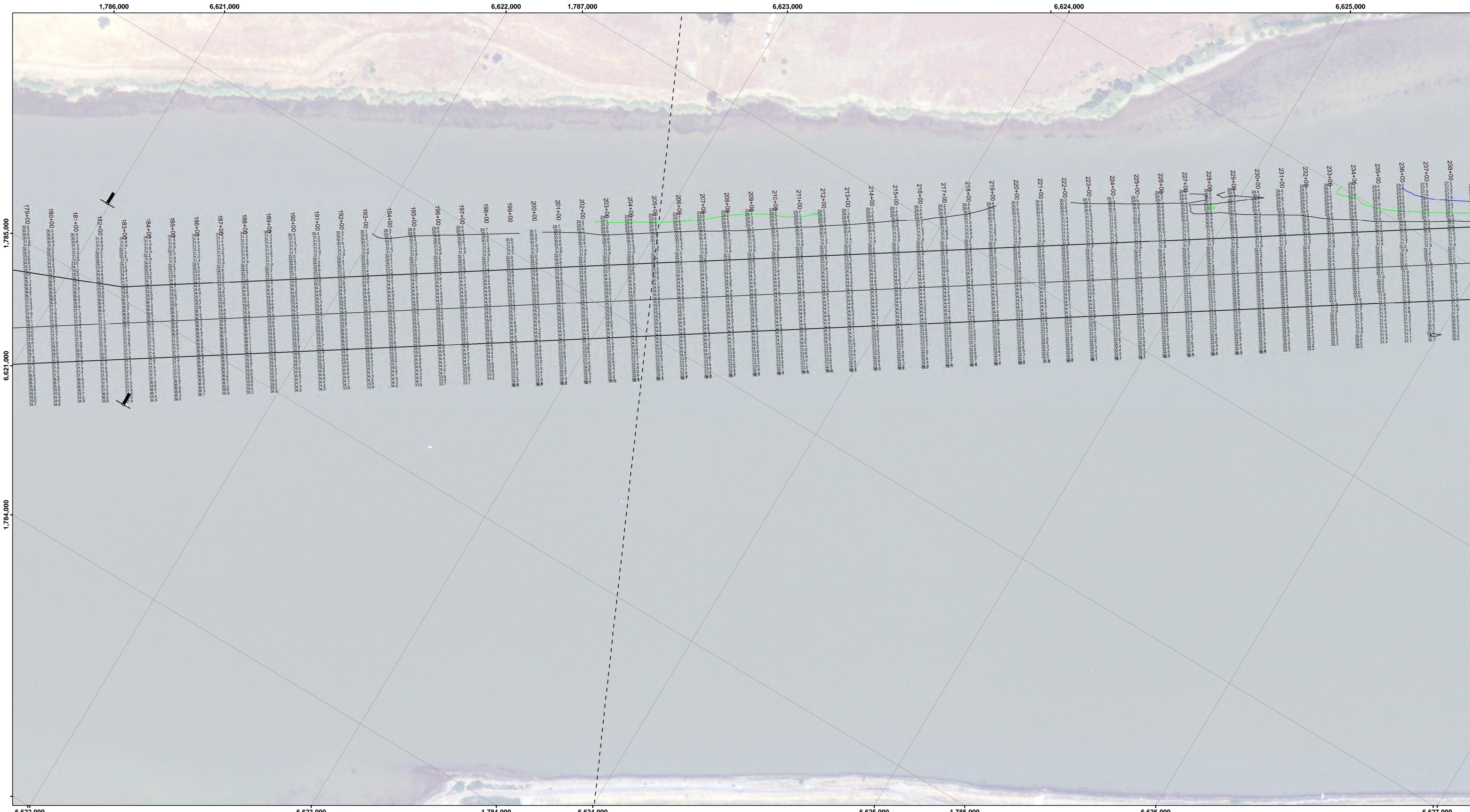


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PREPARED UNDER THE DIRECTION OF	JOHN C. MORROW	Surveyed By:	Chart Date:
LT COLONEL, C. DISTRICT ENGINEER			Sep 04, 2015
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by:	
Recommended: Chief Hydro Survey Section	Checked By: PDT		
Approved: Chief Construction Branch			

CALIFORNIA	
SACRAMENTO RIVER CONDITION SURVEY	
7-9, 13-16 AND 30 APRIL 2015	



NOTES:
Horizontal Coordinate System:
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Reference is N.O.A.A. Navigation Chart No. 18521.

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9416131
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: P0WS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

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SAN JOAQUIN COUNTY
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015
Sheet Reference Number
5 of 45

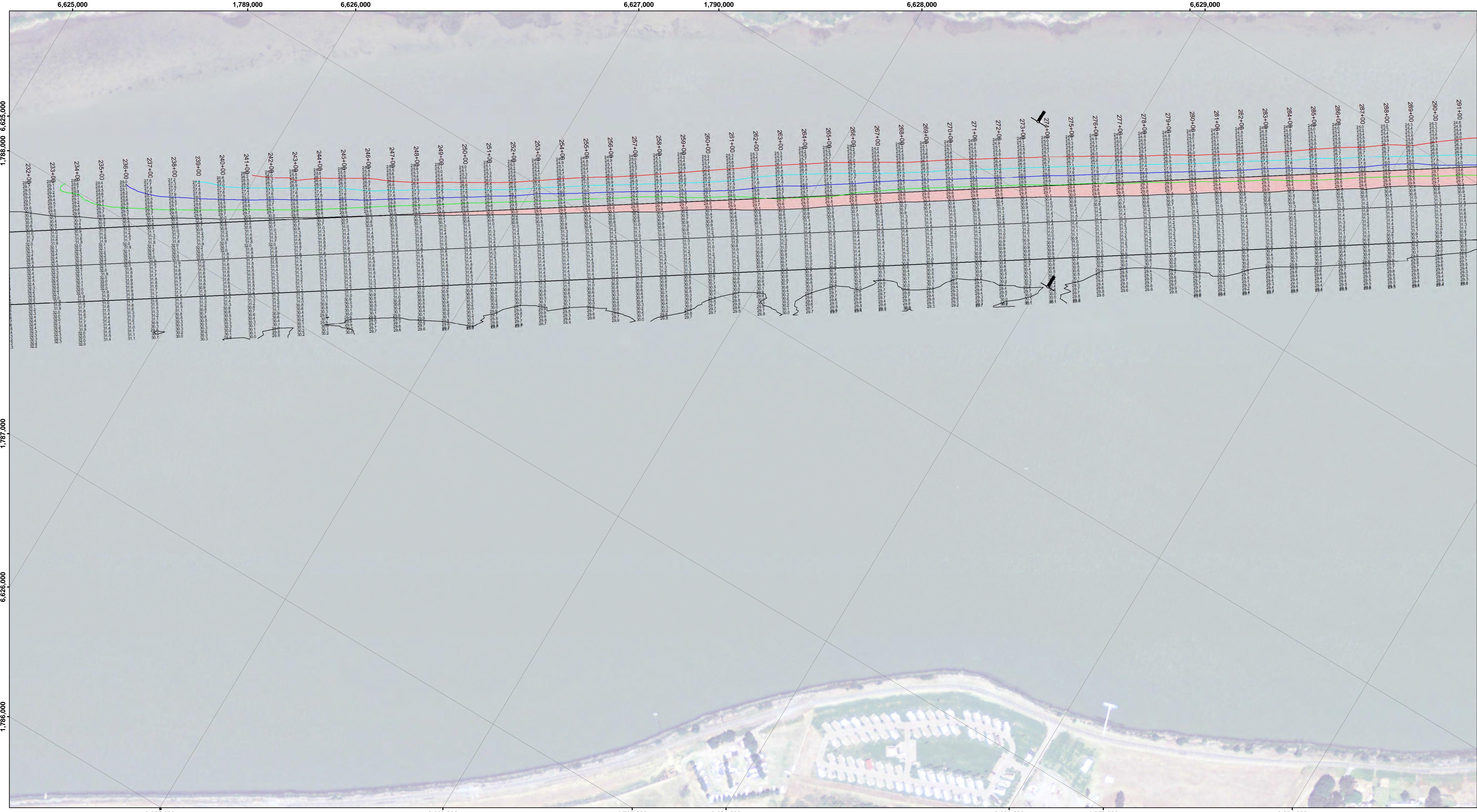
US Army Corps of Engineers
District: CESPK

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Chart Date: Sep 04, 2015
Surveyed By: [Signature]
Plotted By: PDT
Designed by: [Signature]

Checked By: [Signature]
Drawn by: PDT
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

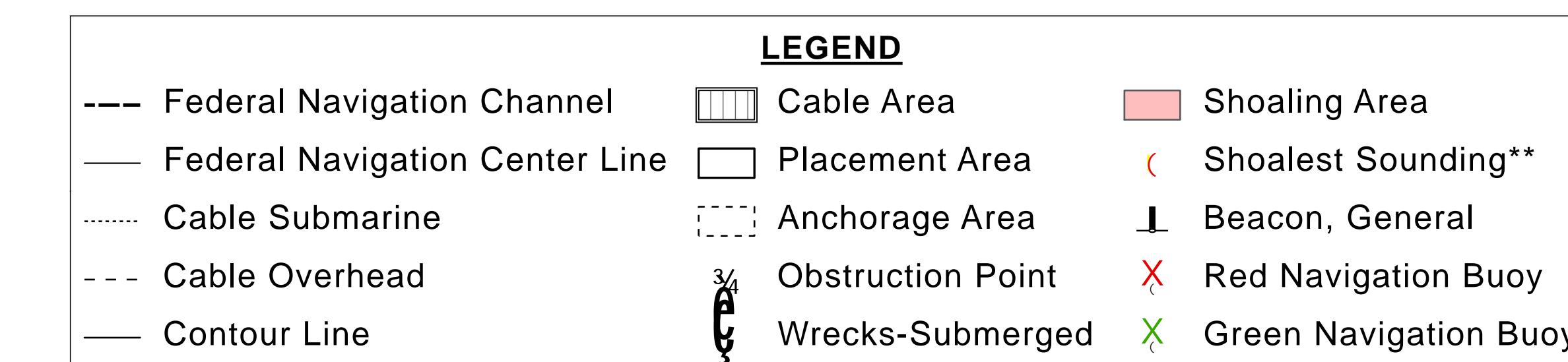
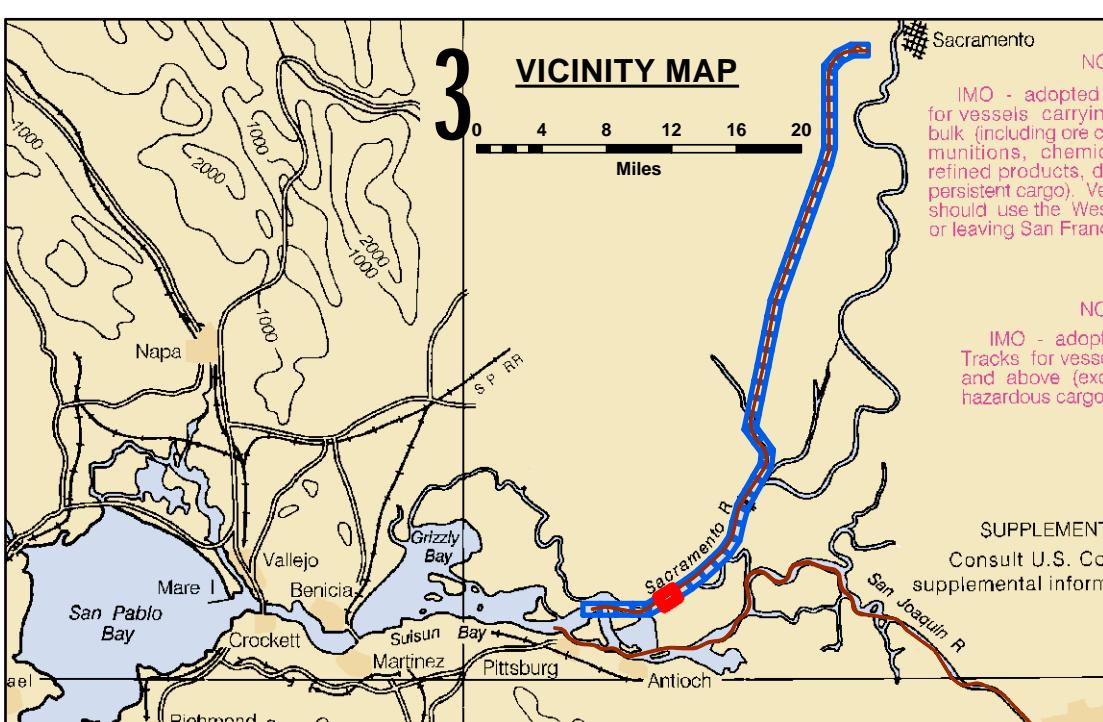


US Army Corps
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District: CESPK

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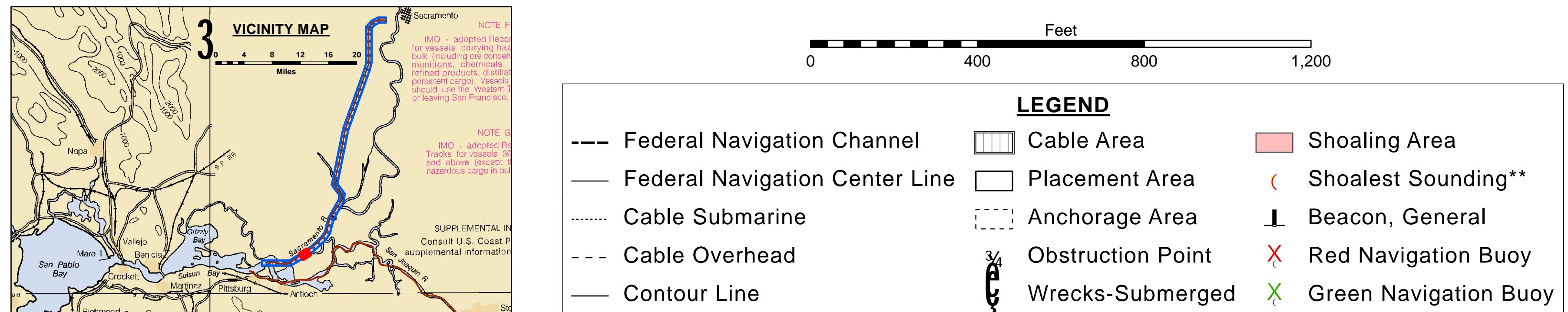
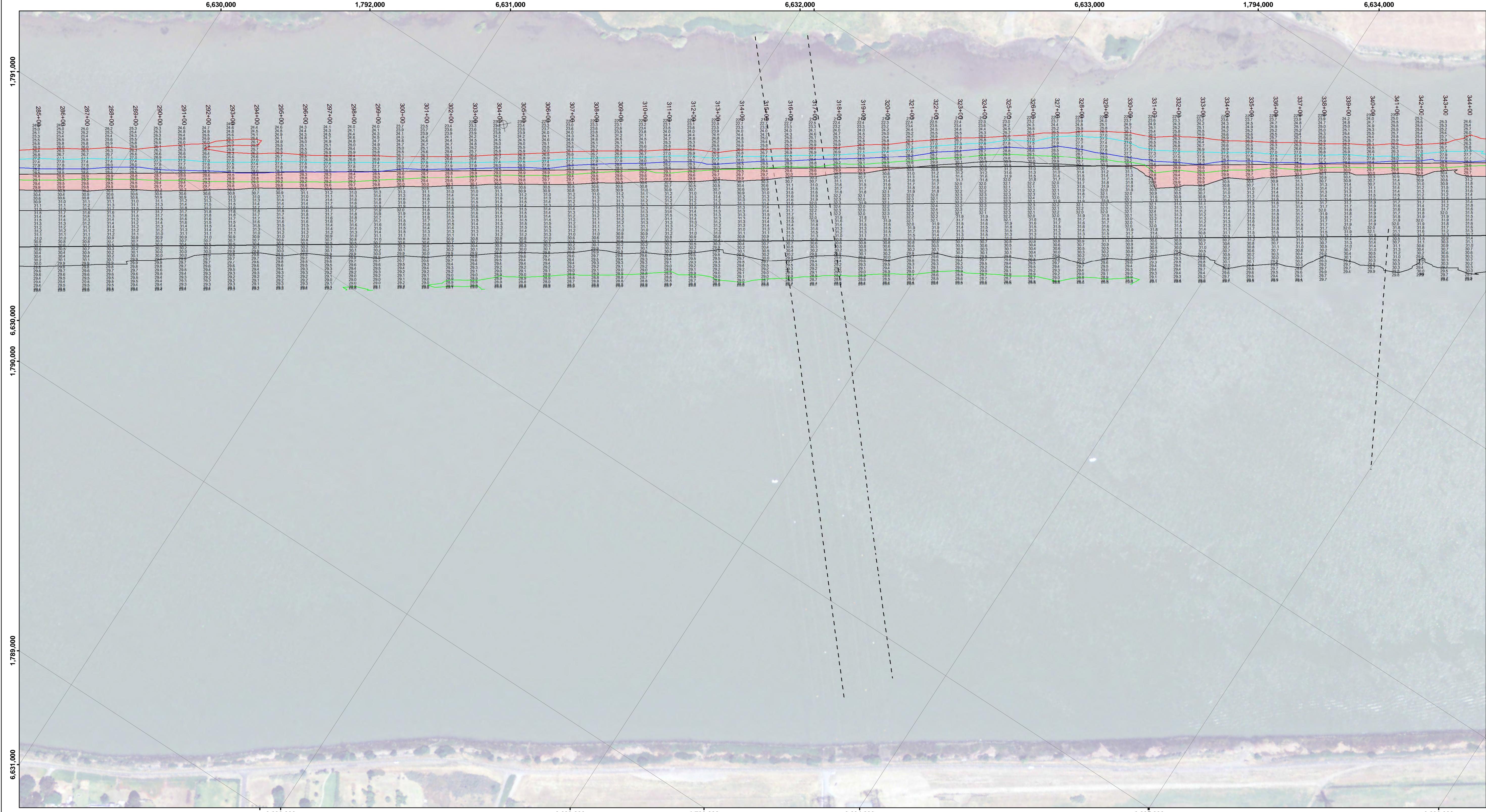
PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW		Sep 04, 2015
LT COLONEL, C. DISTRICT ENGINEER		
Submitted:		Designed by:
Hydro Survey Team Leader	PDT	
Recommended:		Plotted By:
Chief Hydro Survey Section	PDT	
Approved:		Drawn by:
Chief Construction Branch	PDT	PDT
Checked By:		

CALIFORNIA	SACRAMENTO RIVER
CONDITION SURVEY	7-9, 13-16 AND 30 APRIL 2015



NOTES:
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Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9416131
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS 1 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
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Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Scale gauge
Statement

EQUIPMENT STATEMENT
CONTROLS:
LOCATION: RIO VISTA
OOA STATION: 9415316
ENCHMARK: 5316 B 1996 (No PID)
DE GAUGE: Nail @ 8.2 ft MLLW
ETADATA: Nail set by USACE 31 March, 2014

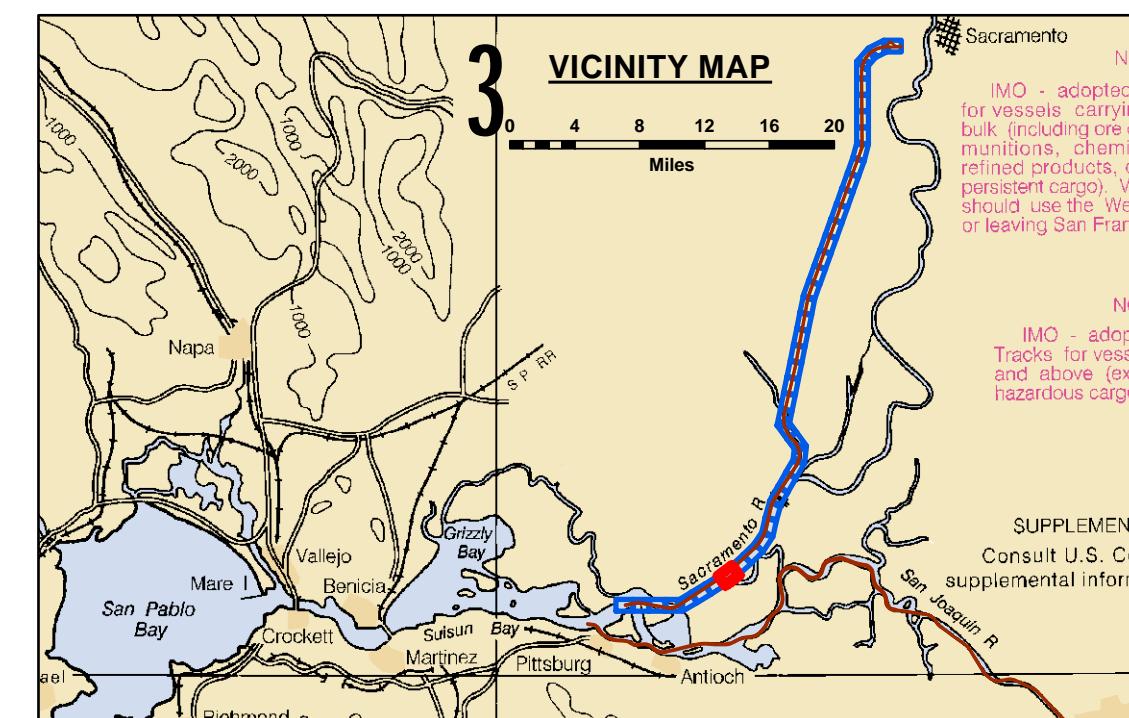
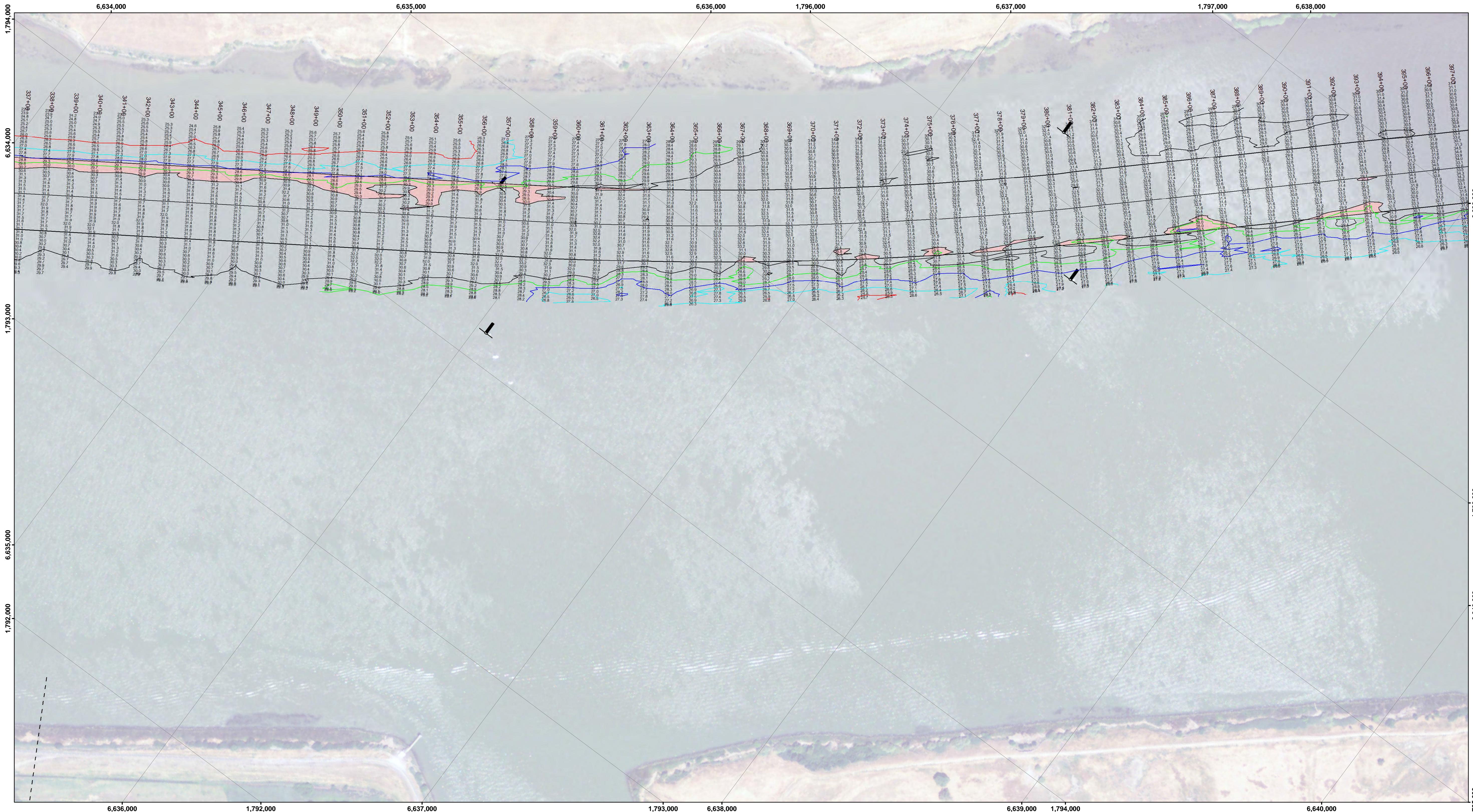
LOCATION: PORT OF WEST SACRAMENTO
OOA STATION: 9416131
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SACRAMENTO COUNTY CONDITIONS
7-9, 13-16 AM

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**Sheet
Reference
Number**



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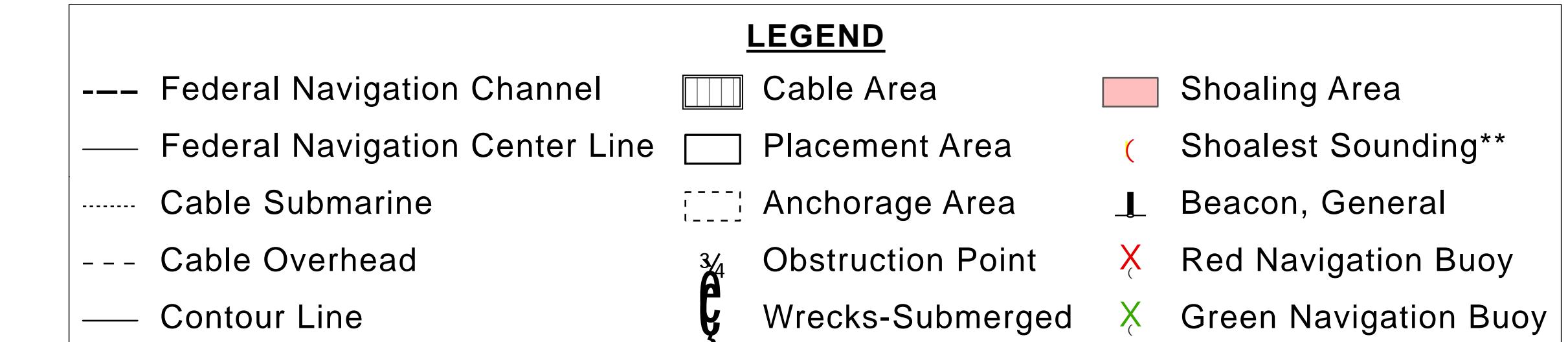
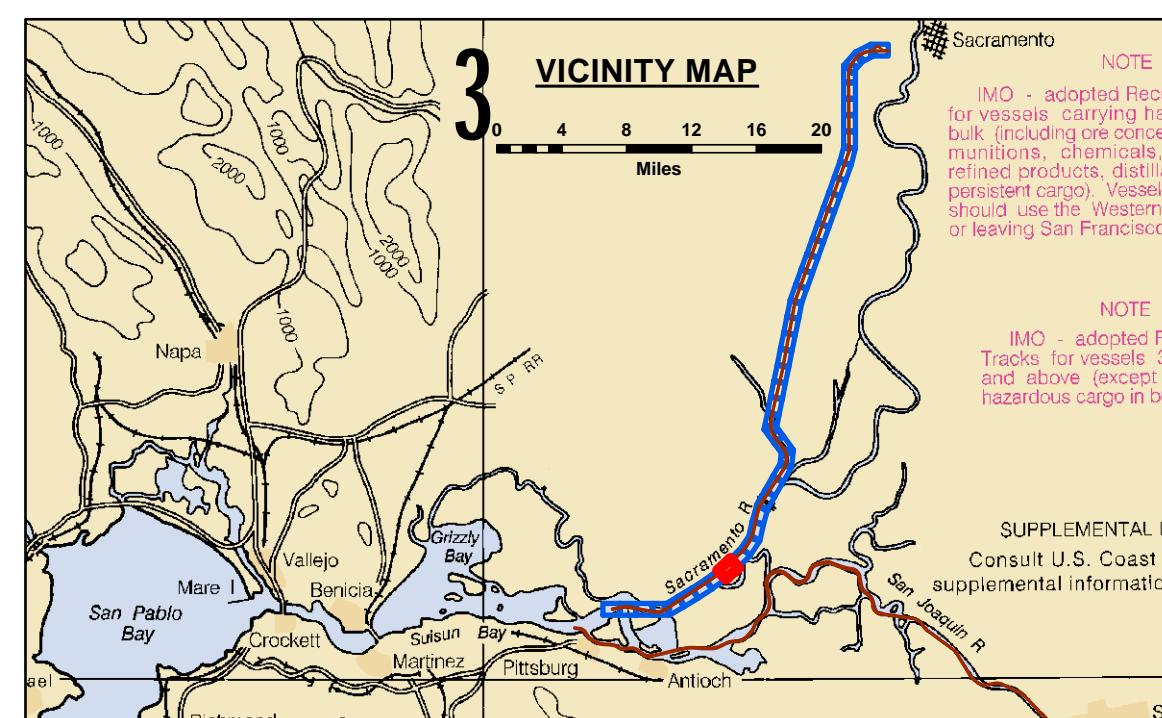
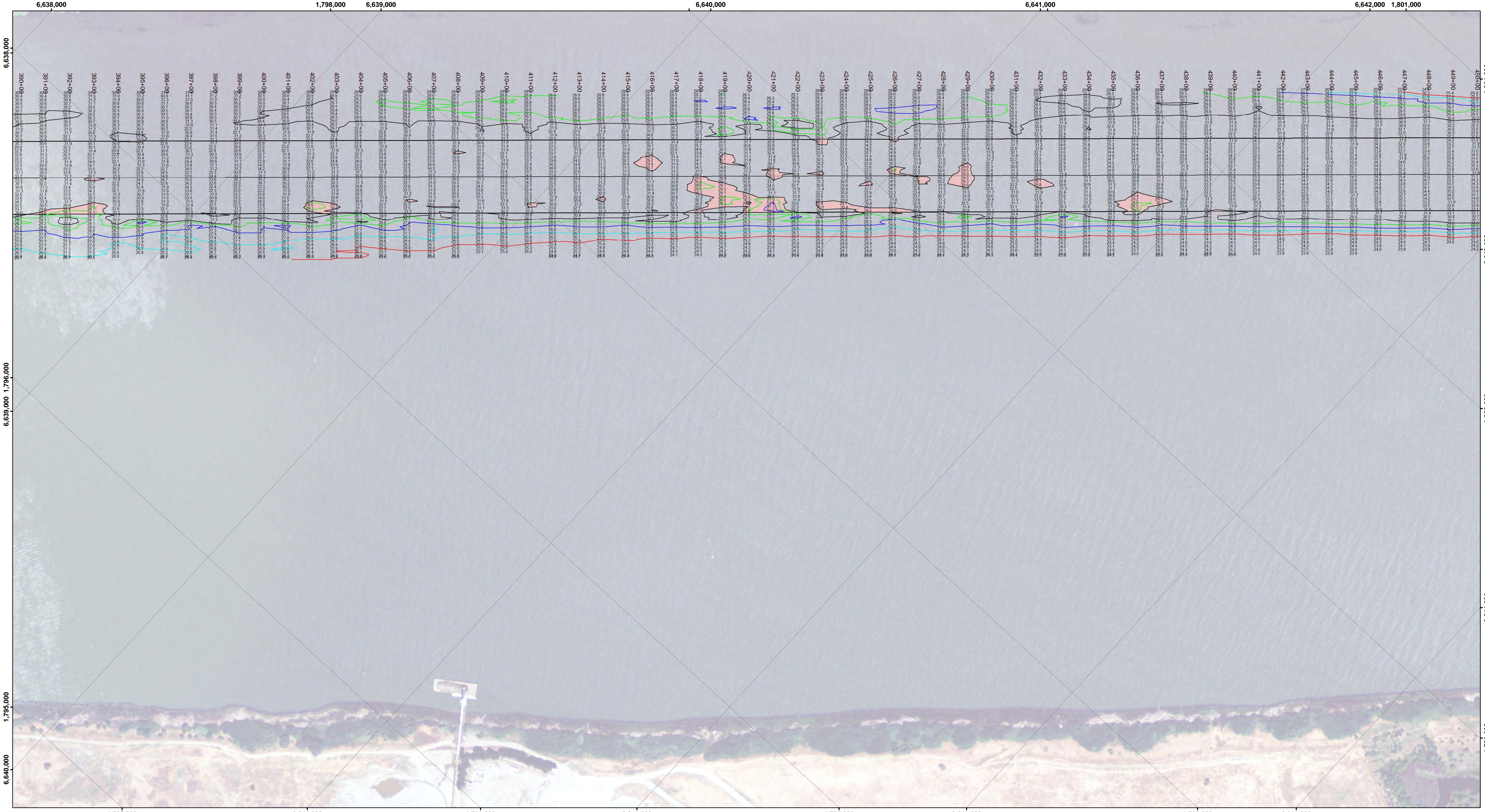
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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW		Sep 04, 2015
LT COLONEL, C. DISTRICT ENGINEER	Designed by:	
	PDT	
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	PDT	
Recommended: Hydro Survey Team Leader		
	Checked By:	
Chief, Hydro Survey Section		
	Drawn by:	
Approved: Chief, Construction Branch		
	PDT	

CALIFORNIA	
SACRAMENTO RIVER	
CONDITION SURVEY	7-9, 13-16 AND 30 APRIL 2015
Surveyed By:	
Plotting By:	
Checked By:	
Approved:	



S:
Horizontal Coordinate System:
American Datum of 1983 (NAD83), projected to the State Plane
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Datum:
Elevations are shown in feet and indicate depths below MLLW Datum.

Information depicted on this map represents the results of a survey conducted

Project Information:
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Project Depth -30'
Site gauge
Equipment statement

Equipment statement

CONTROLS:
LOCATION: BIO VISTA

OOA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)

DE GAUGE: Nail @ 8.2 ft MLLW

DATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
QAA STATION: 9416131

ENCHMARK: P0WS1 (No PID)
DE GAUCHE: Neil @ 10.0 ft MLW

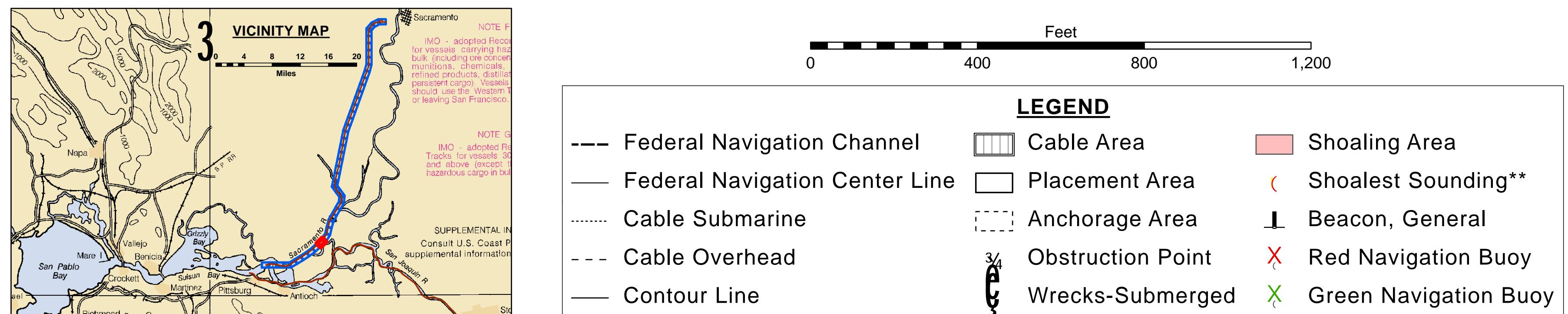
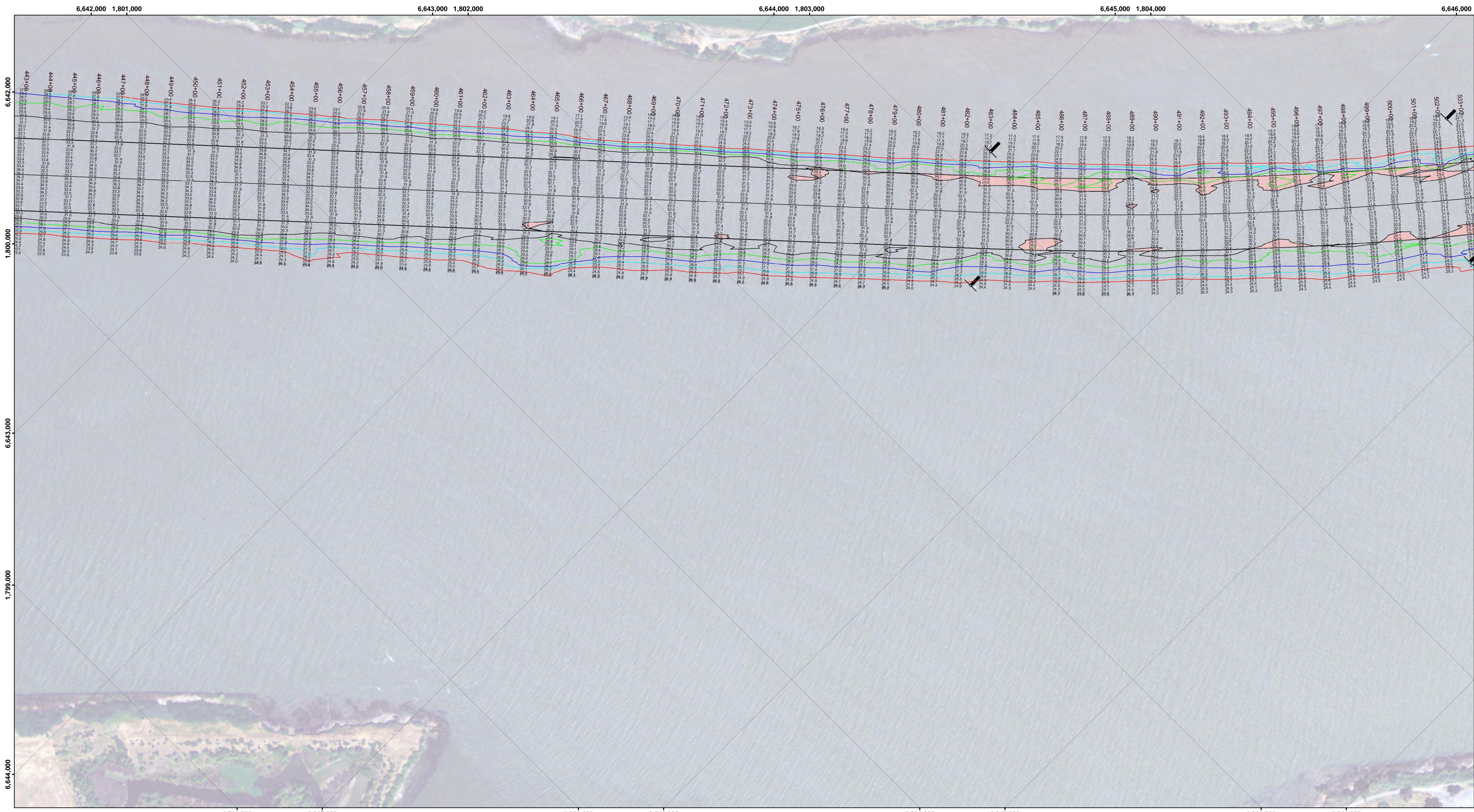
DATA: Nail set by USACE 8 April, 2014

I horizontal positions and MLLW elevations were

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SA
Sheet
Reference
Number
9 of 45



NOTES:

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Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.

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Tide gauge
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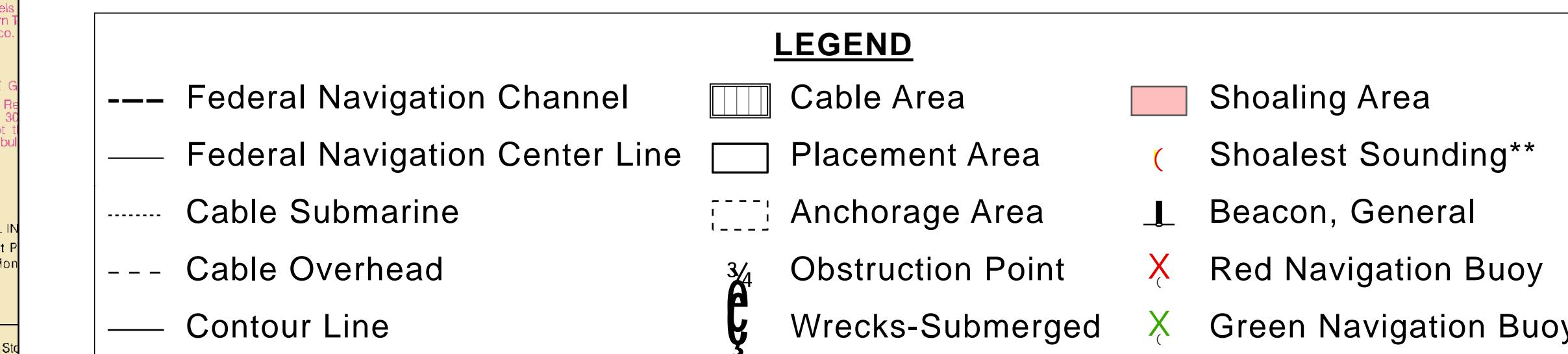
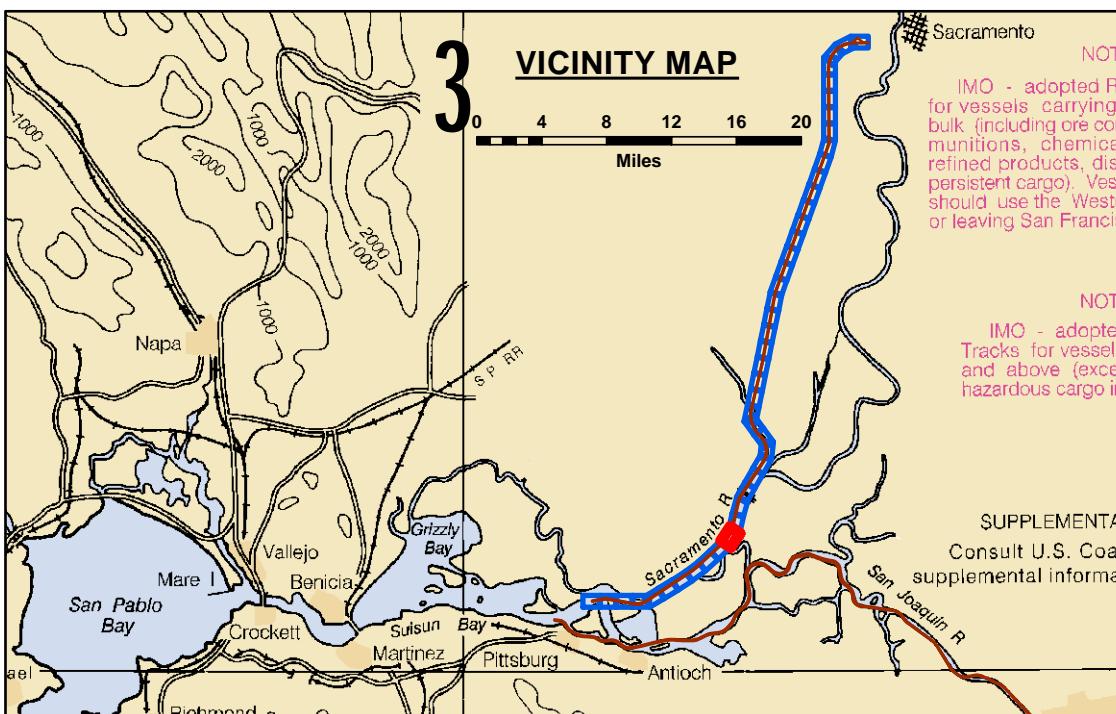
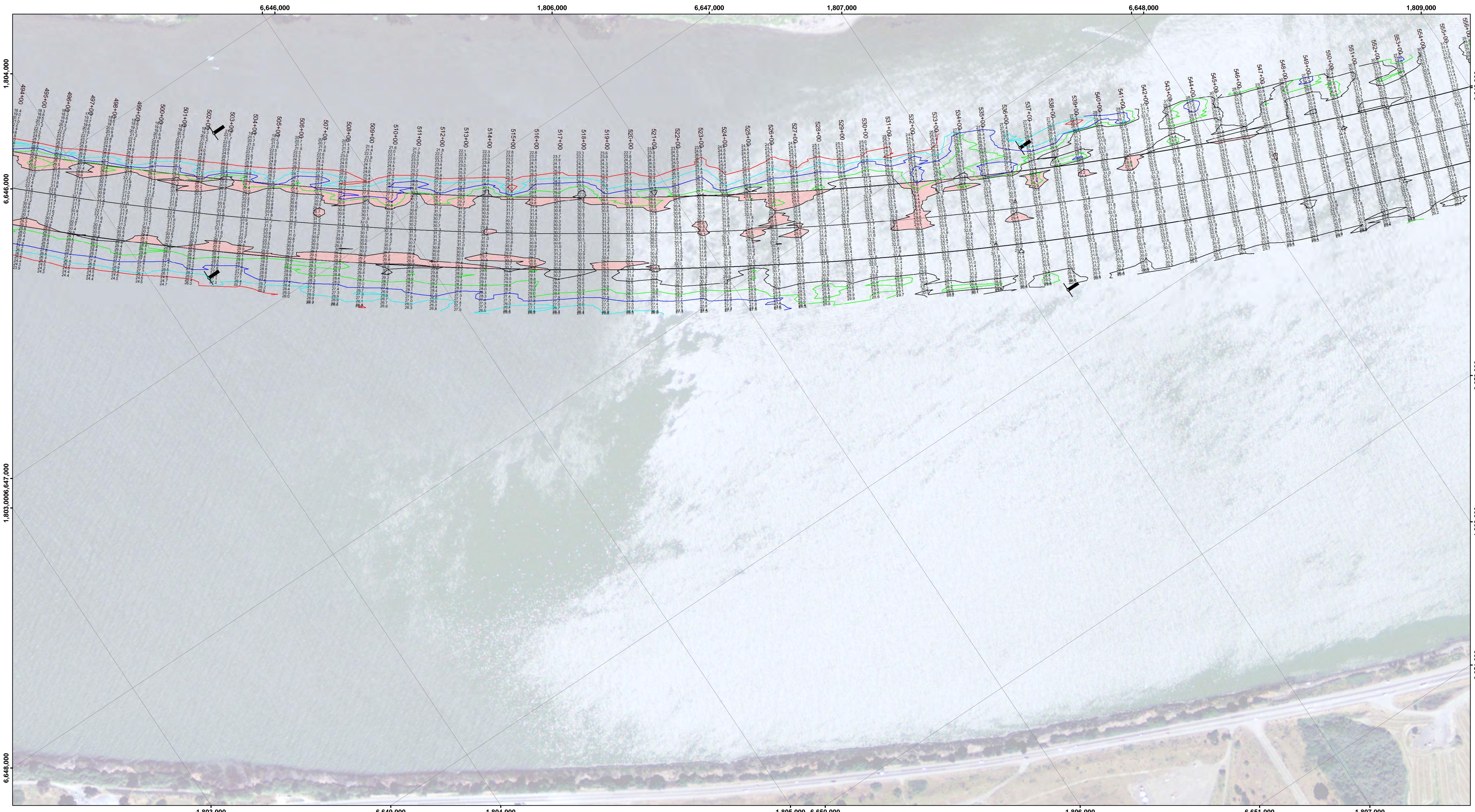
CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.2 ft MLLW
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NOAA STATION: 9416131
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TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

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SAC
CC
7-9, 13

Sheet
Reference
Number
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NOTES:
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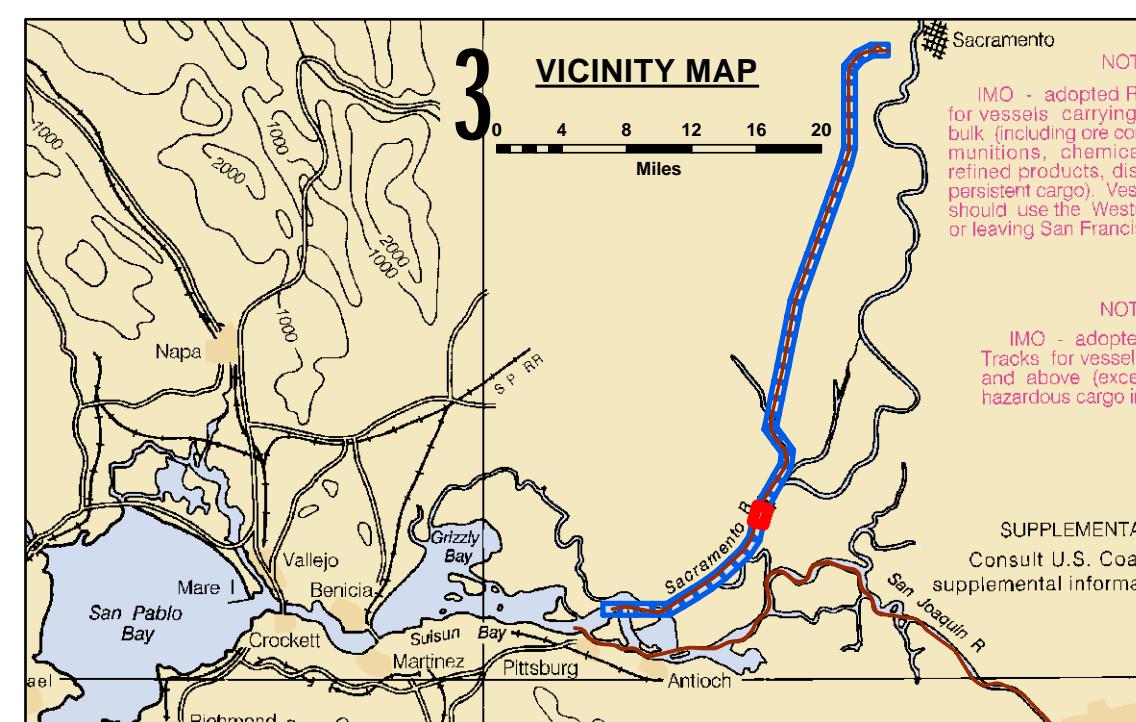
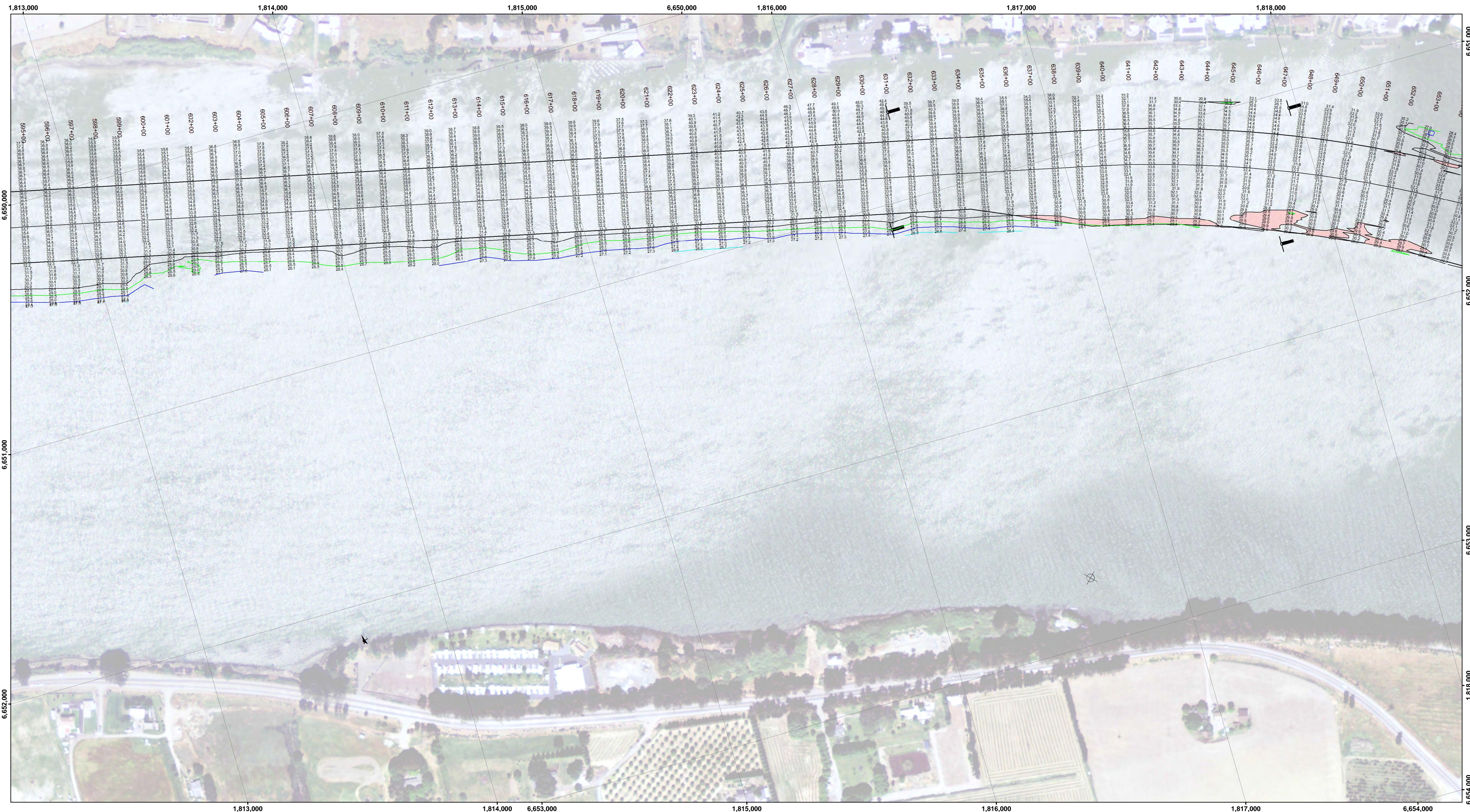


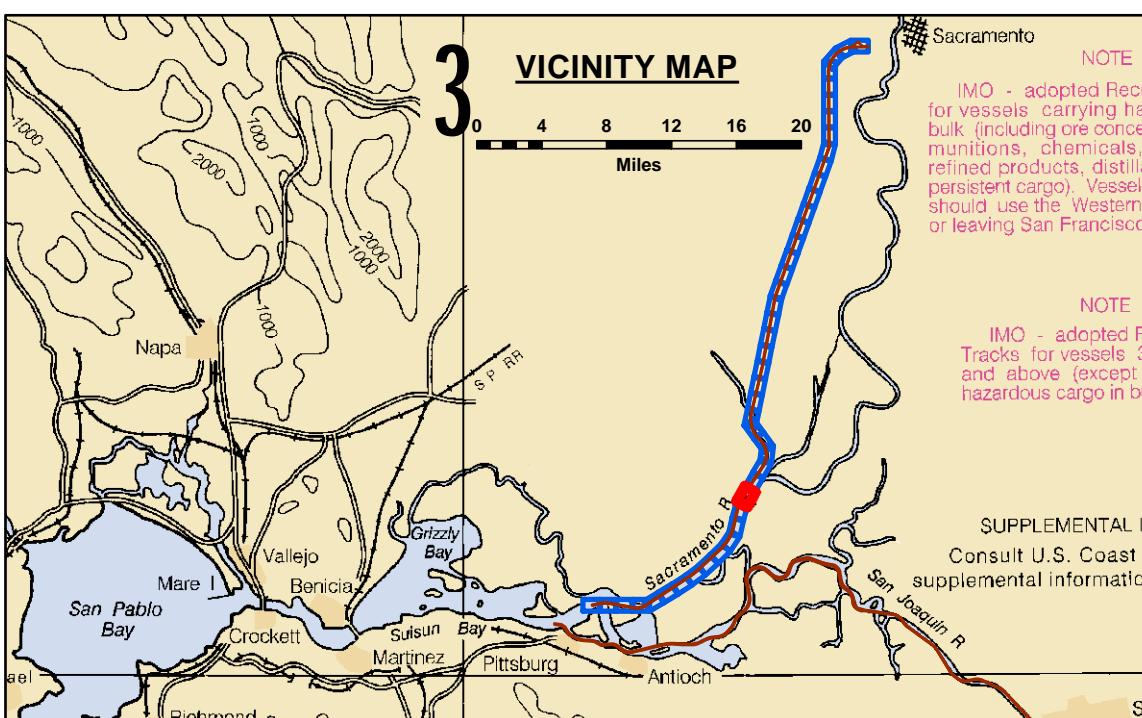
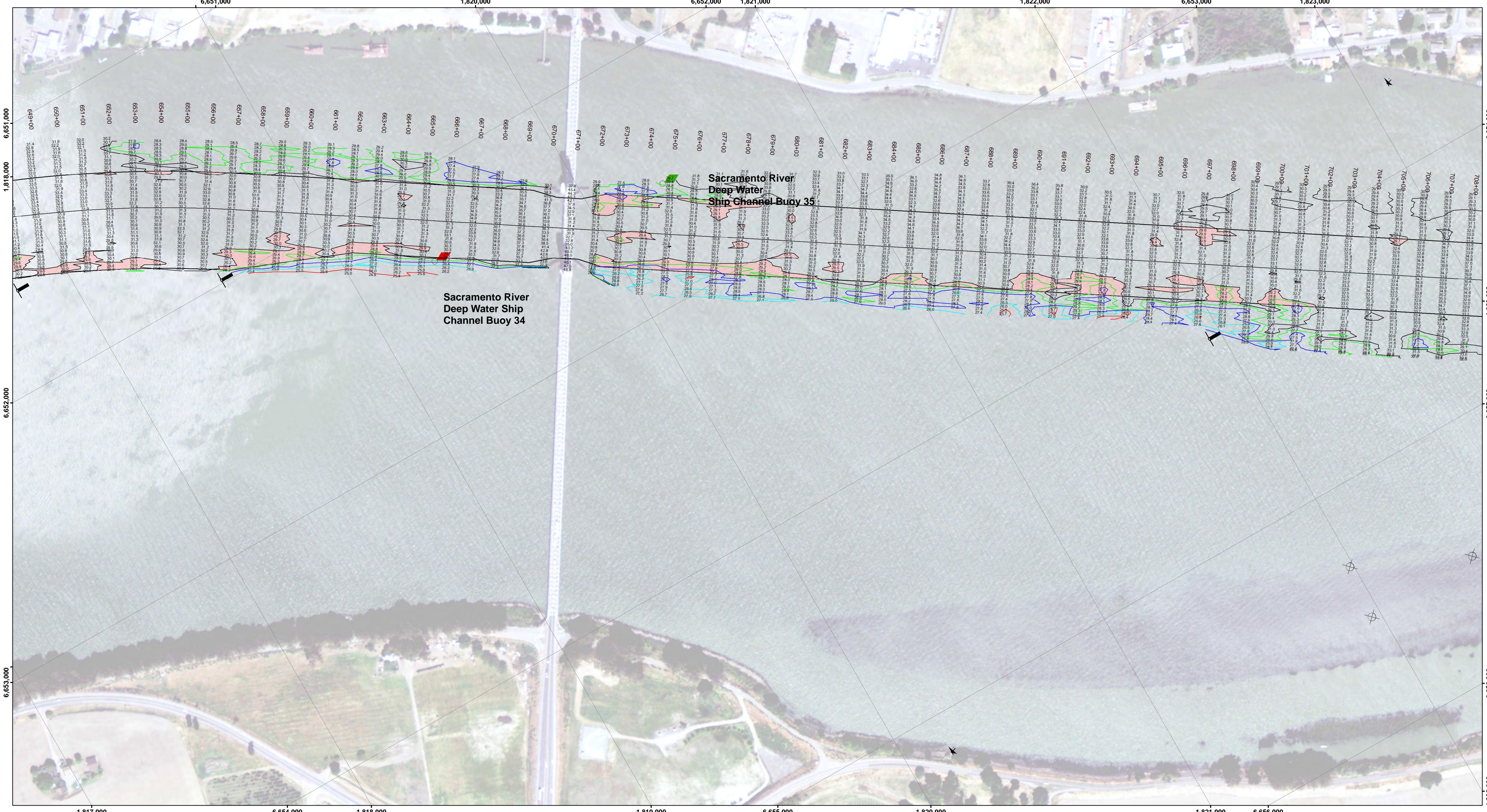
US Army Corps of Engineers
District: CESPK

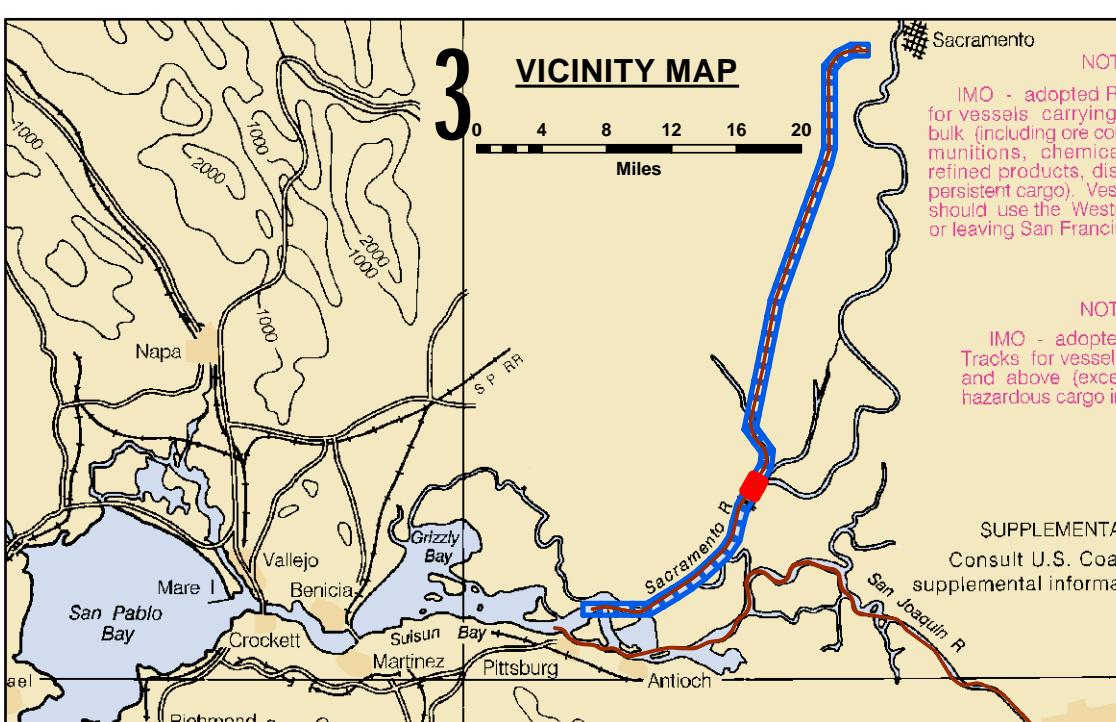
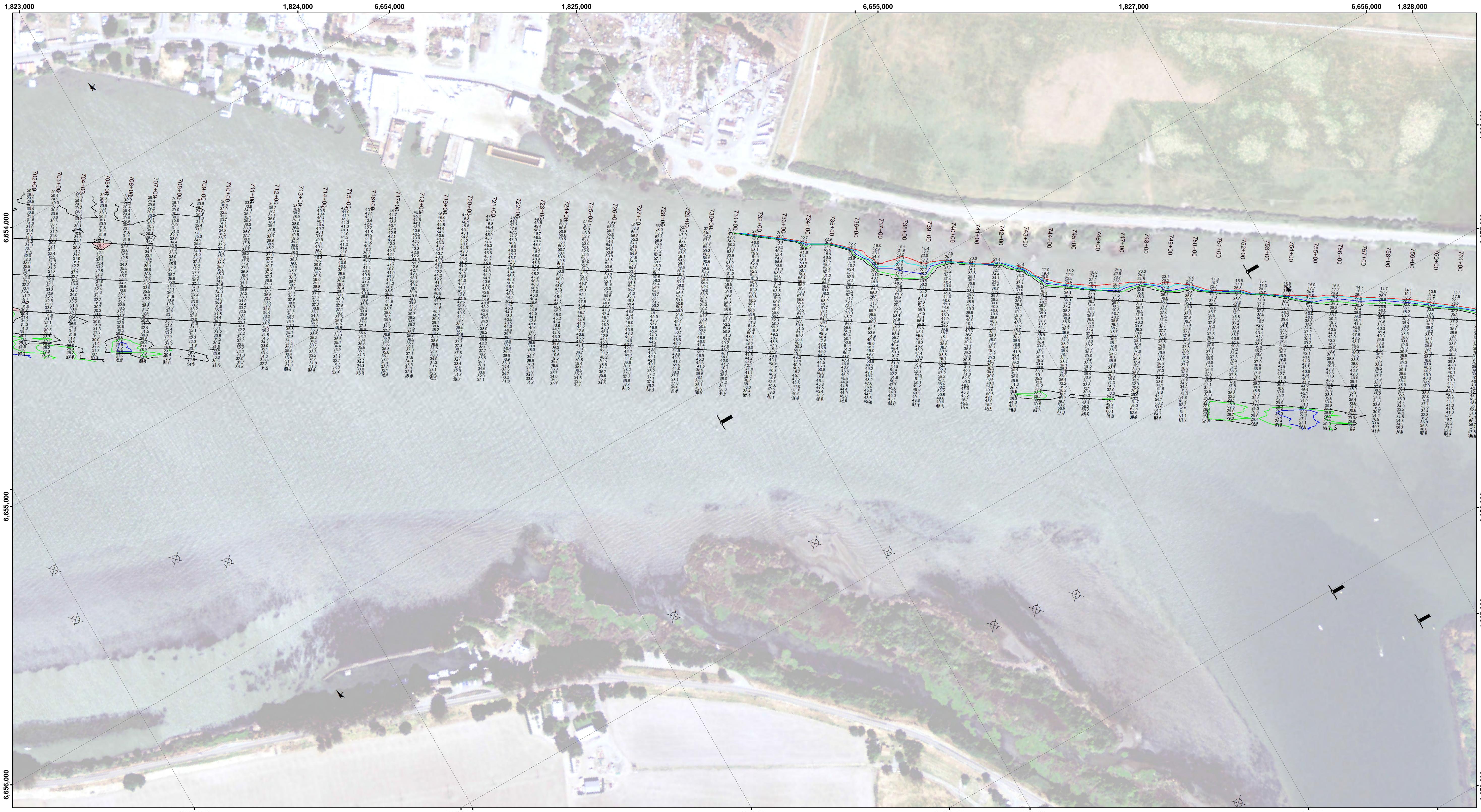
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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW	Sep 04, 2015	
LT COLONEL, C. DISTRICT ENGINEER		
Submitted:	Designed by:	
Hydro Survey Team Leader	PDT	
Recommended:		
Chief, Hydro Survey Section		
Approved:		
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CALIFORNIA	SACRAMENTO RIVER	CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015		







US Army Corps of Engineers
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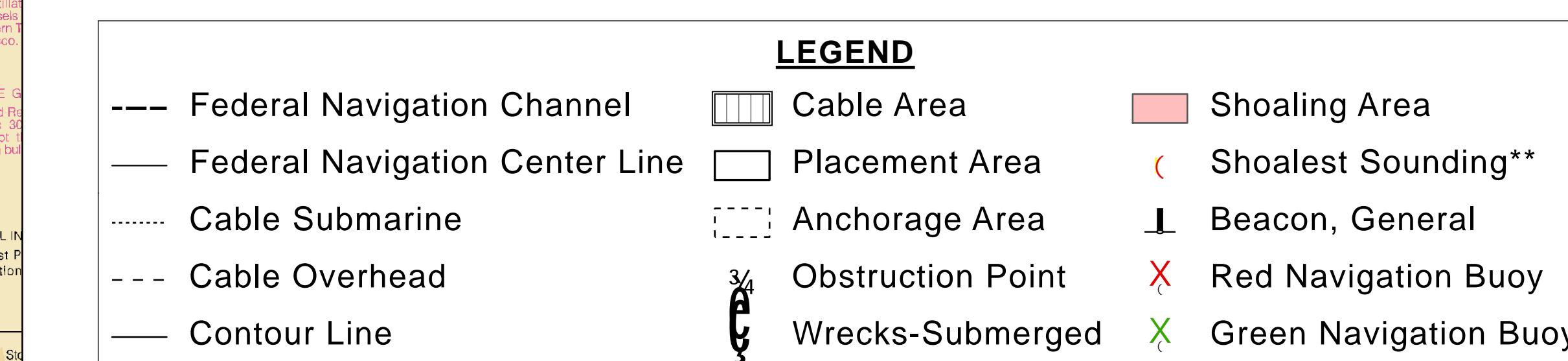
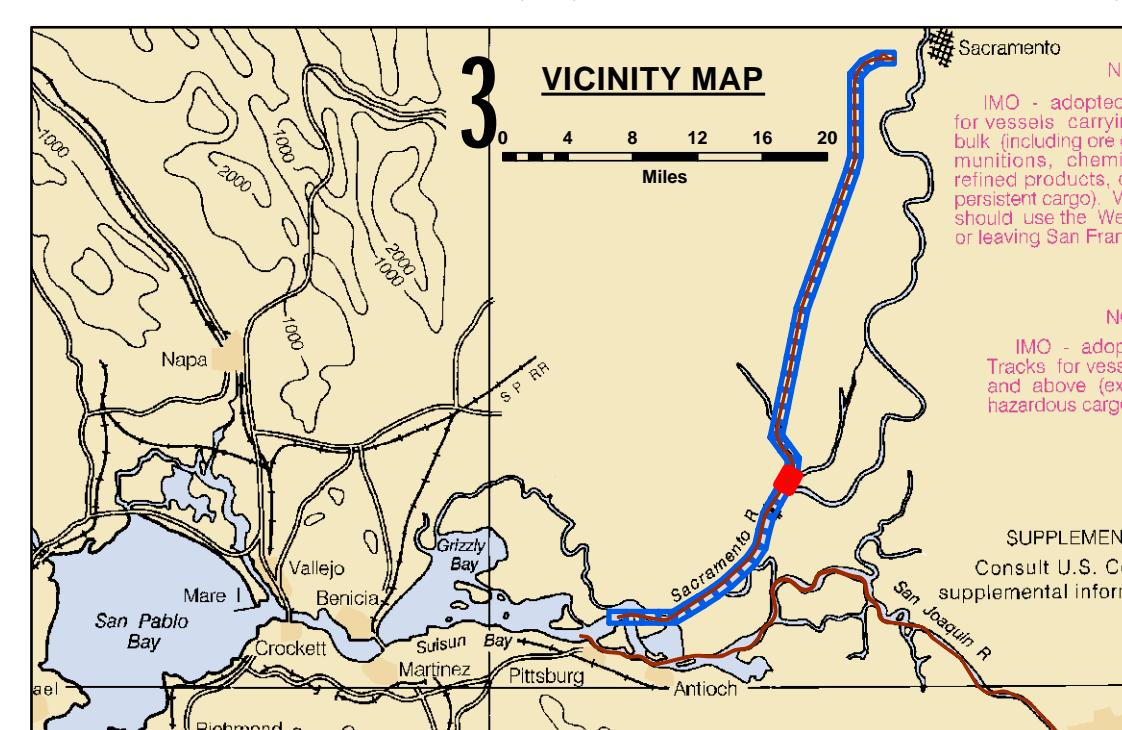
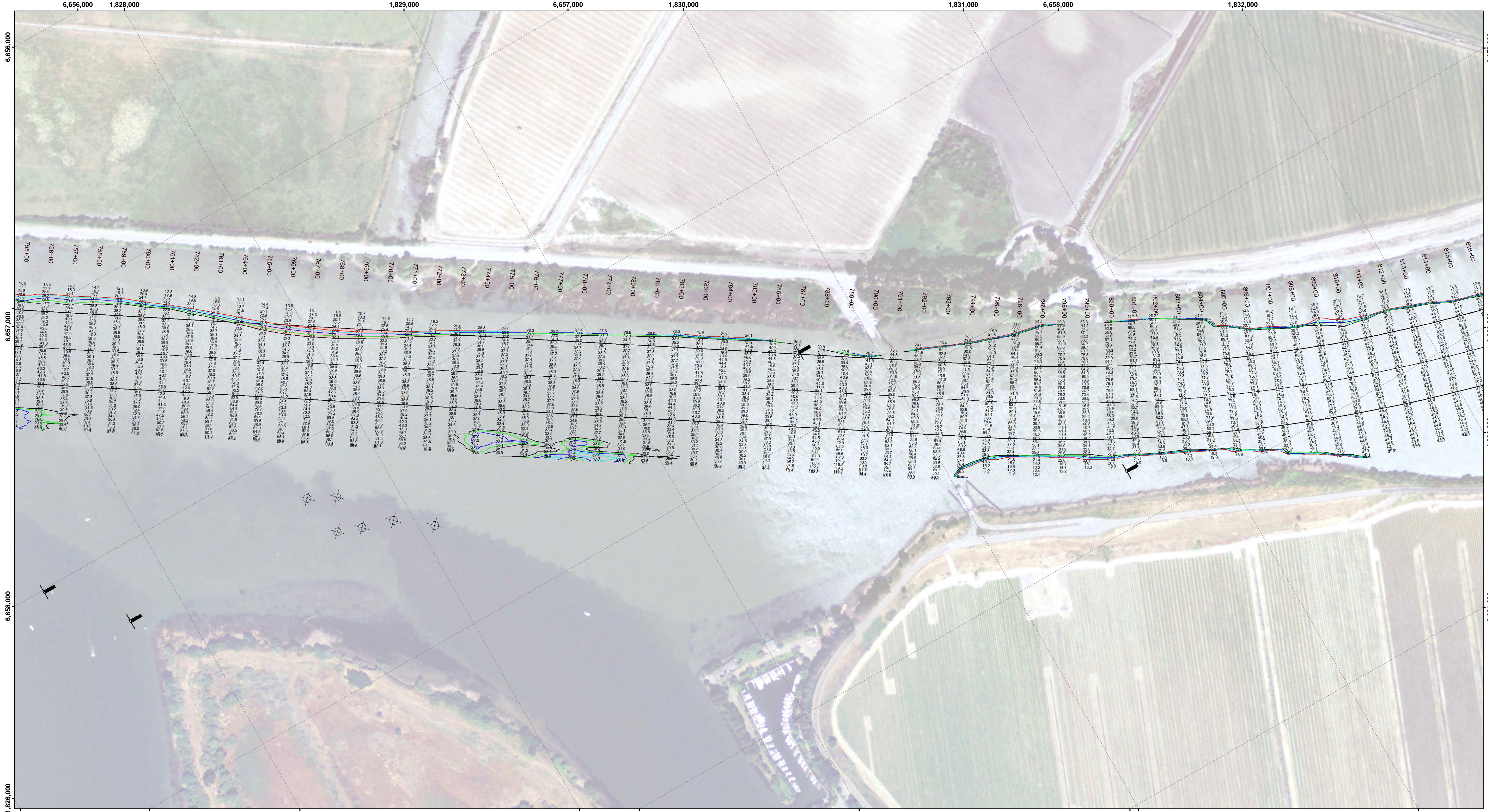
DISCLAIMER: Access Constraints: The United States Government furnishes this data and the recipient accepts and uses them with the express understanding that the Government makes no warranties, expressed or implied, concerning the data, its accuracy, completeness, reliability, suitability or usability or for any particular purpose. The United States shall be under no liability whatsoever in respect of any use made of the data. The data is provided "as is". The user assumes all risk and responsibility in connection with its use. The recipient fully agrees not to represent these data to anyone as other than the Government provided provider. The recipient may not transfer these to a third without the written consent of the Government.

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number: 15 of 45

Chart By: PDT
Plotted By: PDT
Designed By: Sep 04, 2015
Submitted By: Hydro Survey Team Leader
Recommended By: Chief, Hydro Survey Section
Checked By: Chief, Construction Branch

Chart Date: Sep 04, 2015
Drawn By: PDT
Plotted By: PDT
Designed By: Sep 04, 2015
Submitted By: Hydro Survey Team Leader
Recommended By: Chief, Hydro Survey Section
Checked By: Chief, Construction Branch



NOTES:

Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane
Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.

Vertical Datum:
Soundings are shown in feet and indicate depths below MLLW Datum.

The information depicted on this map represents the results of a survey conducted
on the date indicated and can only be considered to represent the general condition

The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

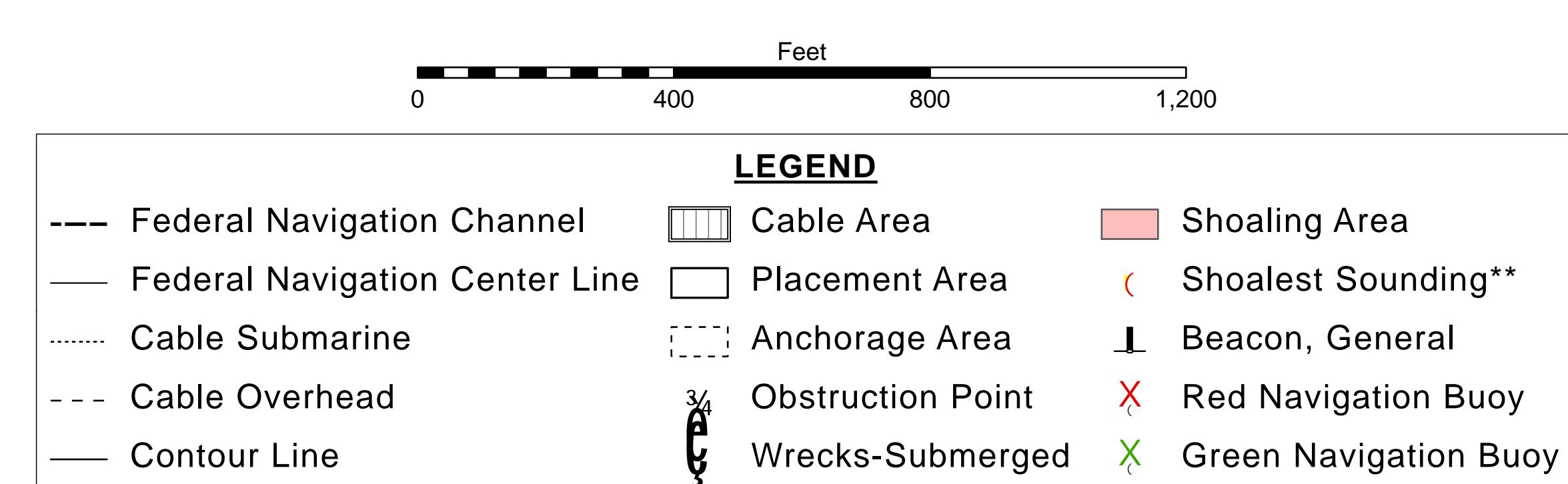
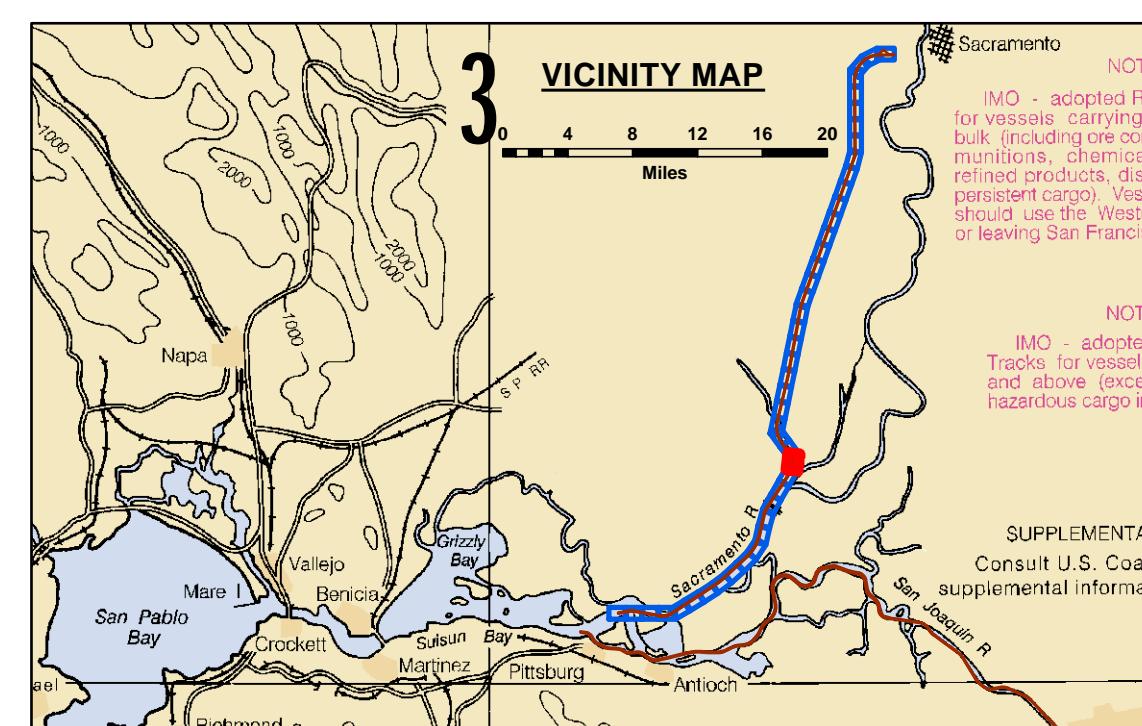
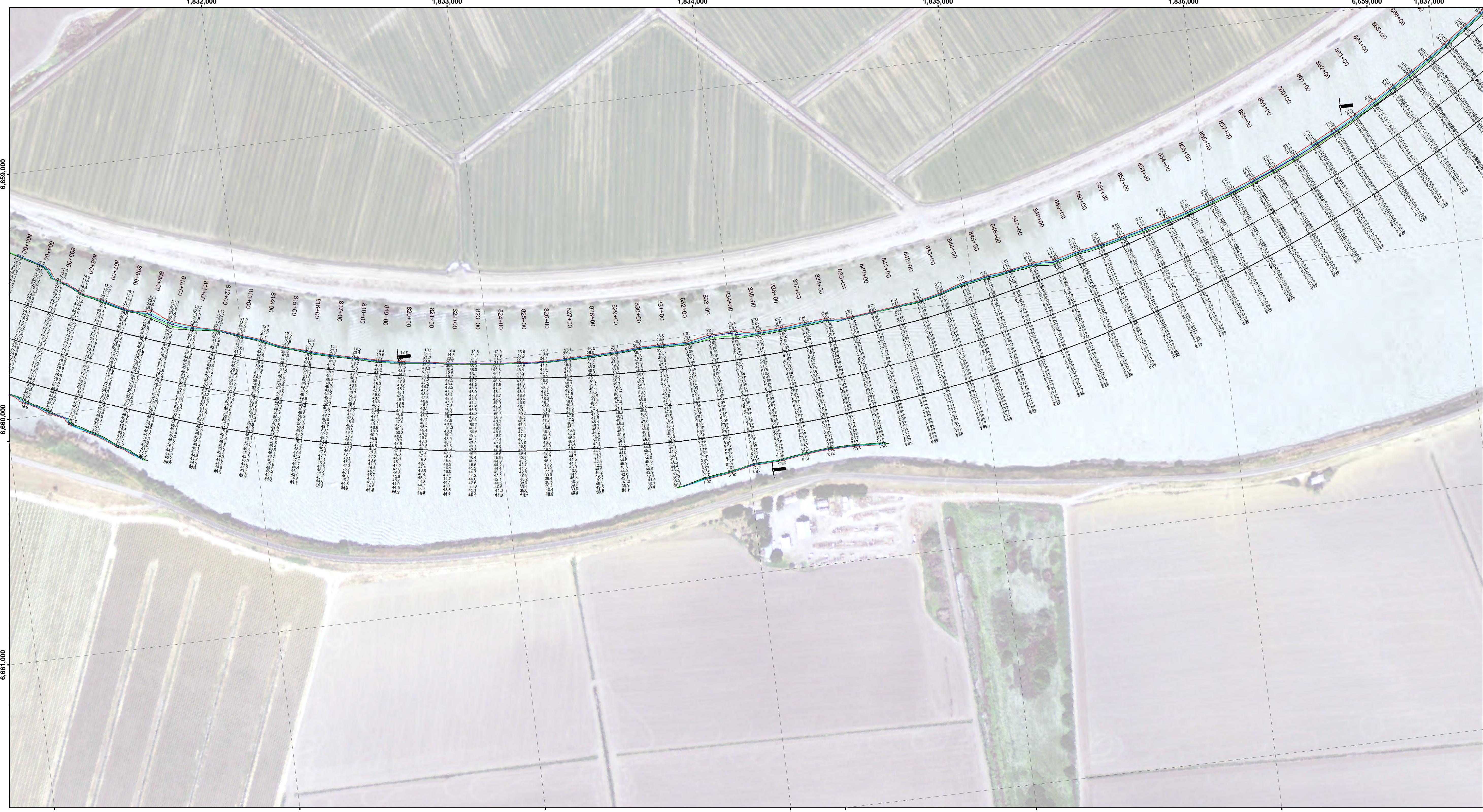
Reference is N.O.A.A. Navigation Chart No. 18521.

STA. 0-200 - 07 APRIL
STA. 200-450 - 09 APRIL
STA. 450-600 - 13 APRIL
STA. 600-700 - 07 APRIL
STA. 700-1100 - 14 APRIL
STA. 1100-1600 - 15 APRIL
STA. 1600-2000 - 16 APRIL
STA. 2000 TO END - 30 APRIL

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POVS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

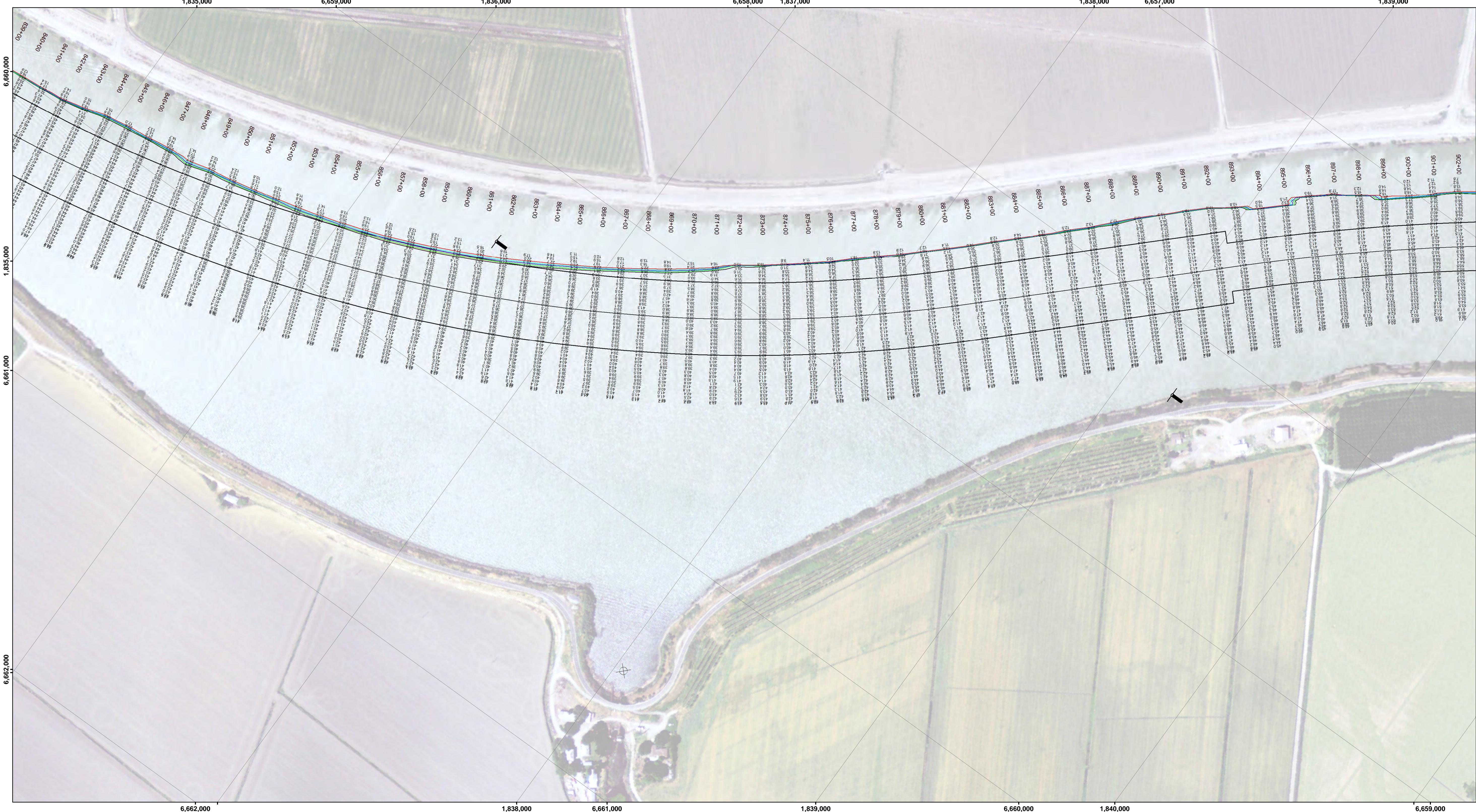
Sheet
Reference
Number
16 of 45



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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW LT COLONEL, C.E. DISTRICT ENGINEER		Sep 04, 2015
Access Constraints: The United States Government furnishes this data and the recipient accepts and uses them in express understanding that the U.S. Government makes no warranties, expressed or implied, concerning the data, its accuracy, reliability, or suitability for any particular purpose. The United States shall be under no liability whatsoever in respect thereto. The recipient further agrees to not to reveal these data to anyone as other than the Government provided transfer thereof.		
Submitted: Hydro Survey Team Leader	Plotted By:	Designed by:
Recommended: Chief, Hydro Survey Section		PDT
Approved: Chief, Construction Branch	Checked By:	PDT
	Drawn By:	PDT

CALIFORNIA	
SACRAMENTO RIVER CONDITION SURVEY 7-9, 13-16 AND 30 APRIL 2015	

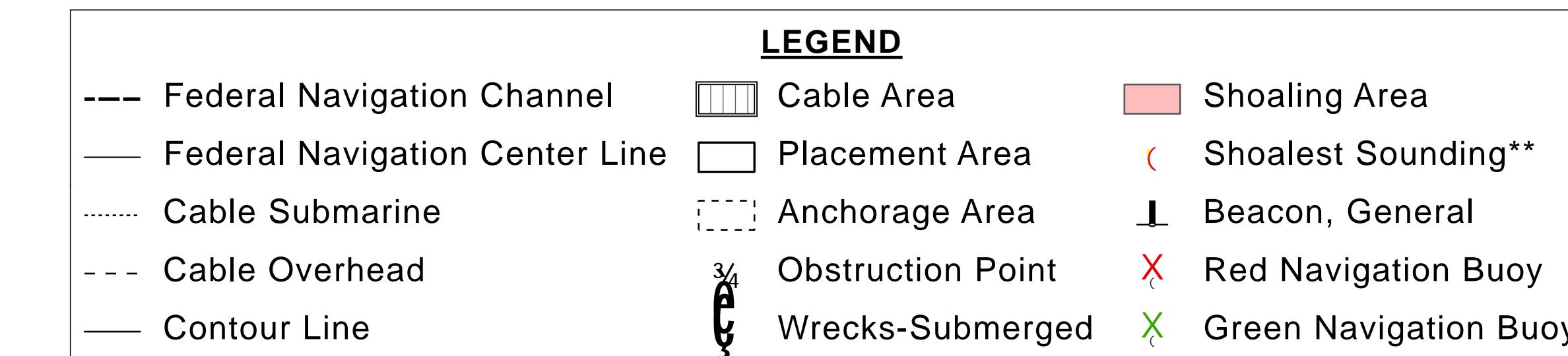
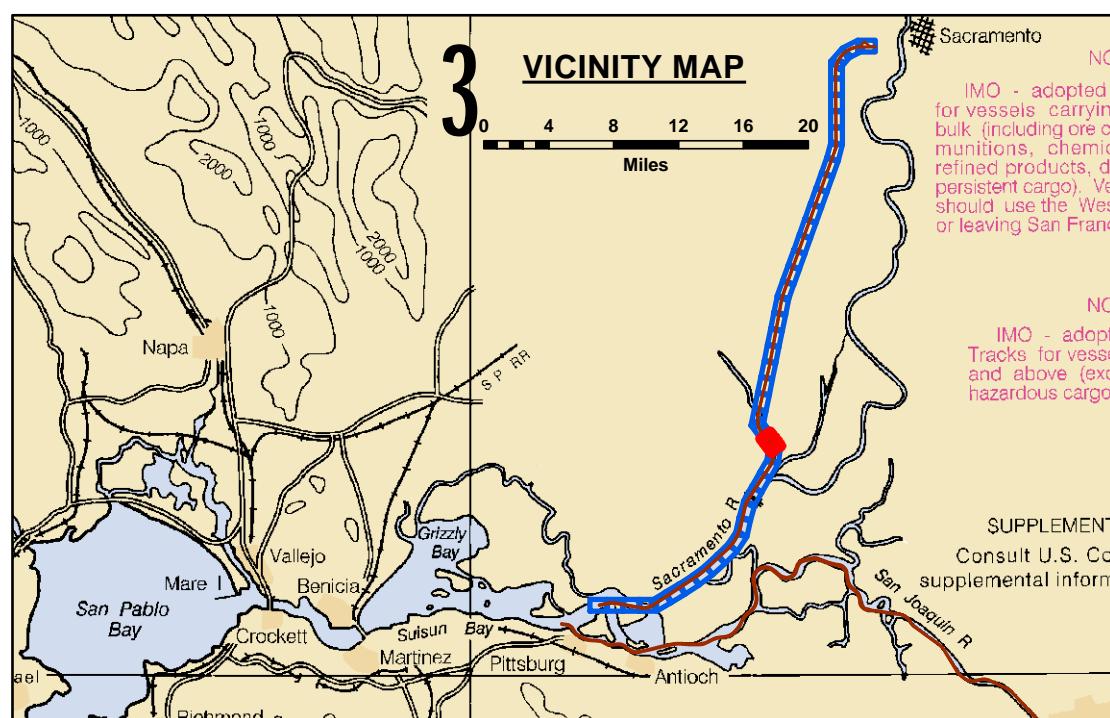


US Army Corps
of Engineers
District: CESPK

Distribution Limit: The data represent the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general conditions. As such, it is the responsibility of the user to evaluate the data and determine its suitability for its intended use, and to make any value judgments concerning the quality and/or application of the data for other than its intended purpose.

PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By: _____ Chart Date: Sep 04, 2015
Access Confirms: The United States Government furnishes the data and the recipient accepts and uses them to express understanding that the US Government makes no warranties, expressed or implied, concerning the data, its accuracy, reliability, or suitability for any particular purpose. The United States shall be under no liability whatsoever in respect of the use which may be made of the data. The recipient agrees to use the data only for the purpose for which it was provided. The recipient further agrees not to resell these data to anyone as other than the Government provided data. The recipient may not transfer these data to a third without so transferring the sediment.	Designed by: _____ Plotted By: PDT Hydro Survey Team Leader
	Drawn by: _____ PDT Chief, Hydro Survey Section
	Checked By: _____ PDT Chief, Construction Branch
	Approved: _____ Chief, Construction Branch

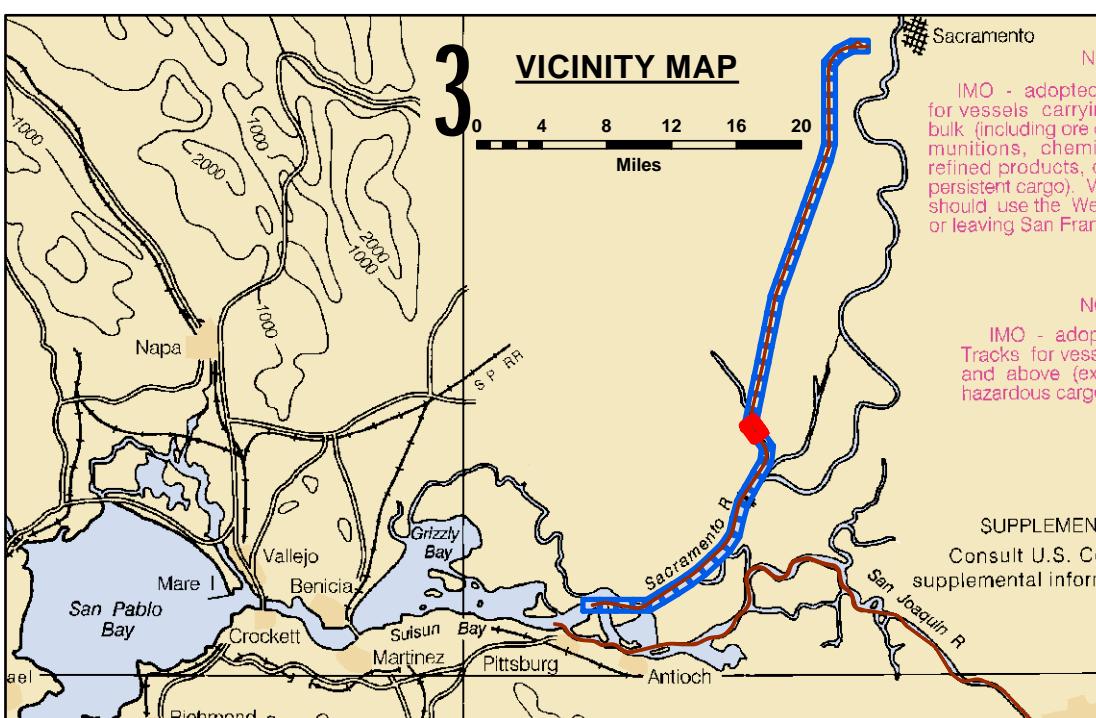
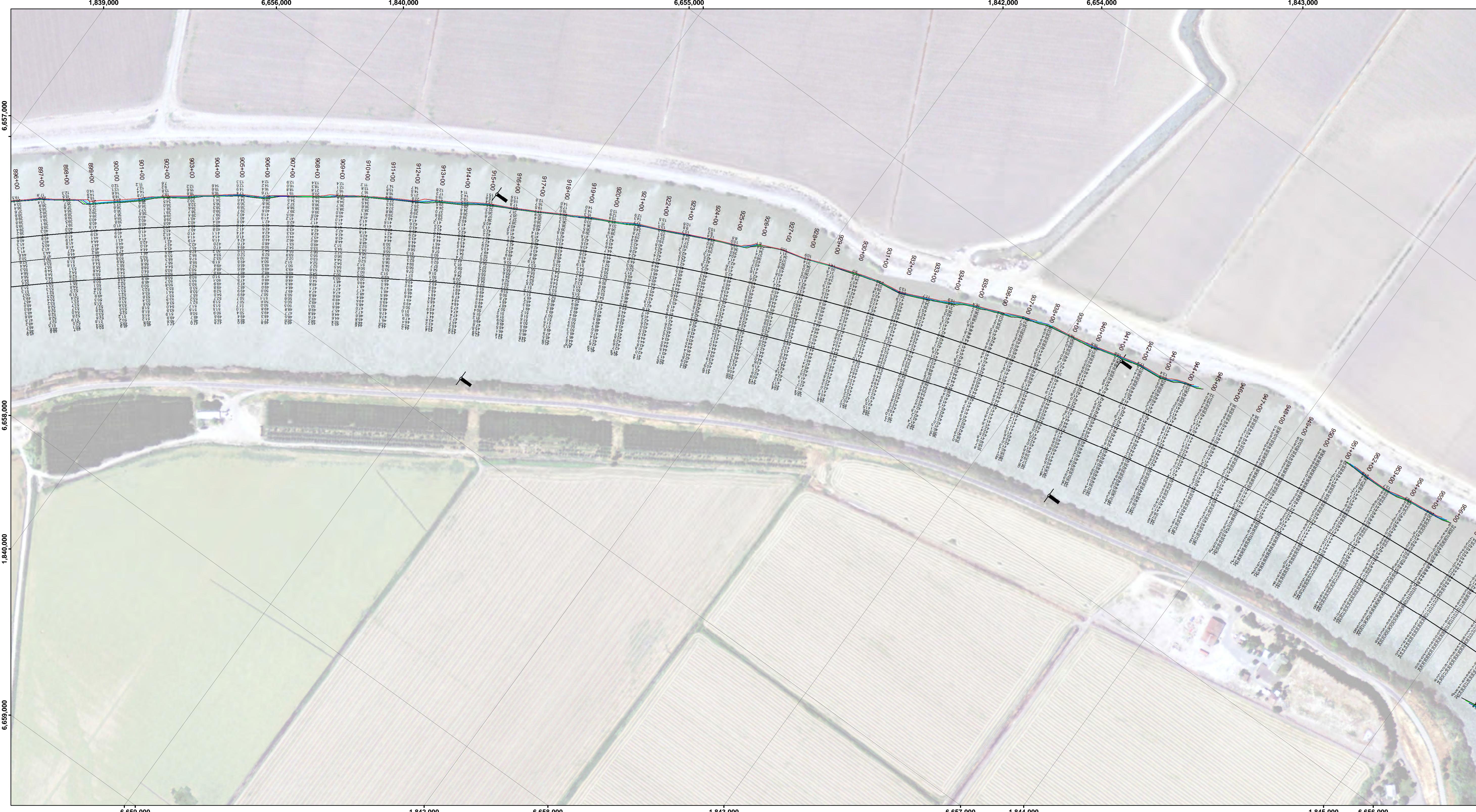
CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.
The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POW1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

Sheet
Reference
Number
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NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.
The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9416131
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.2 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS 1 (No PID)
TIDE GAUGE: Nail set @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

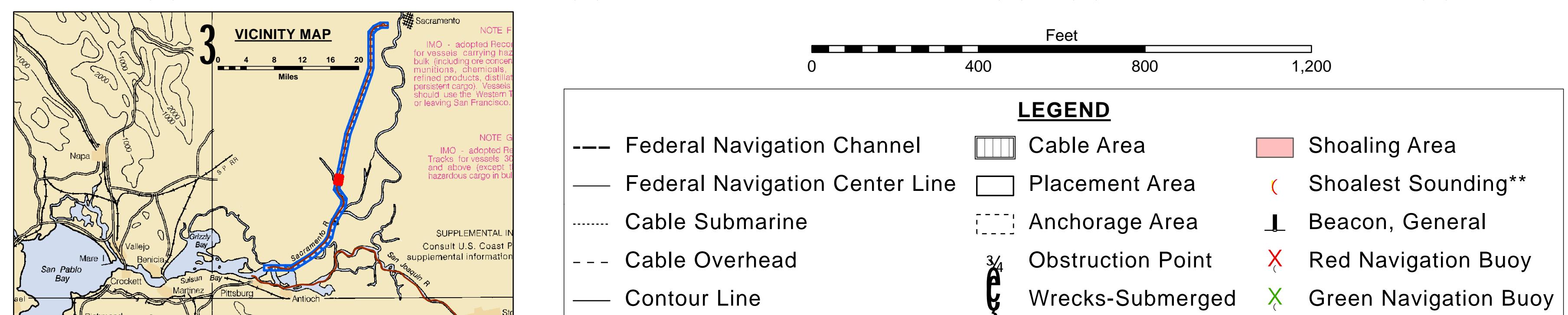
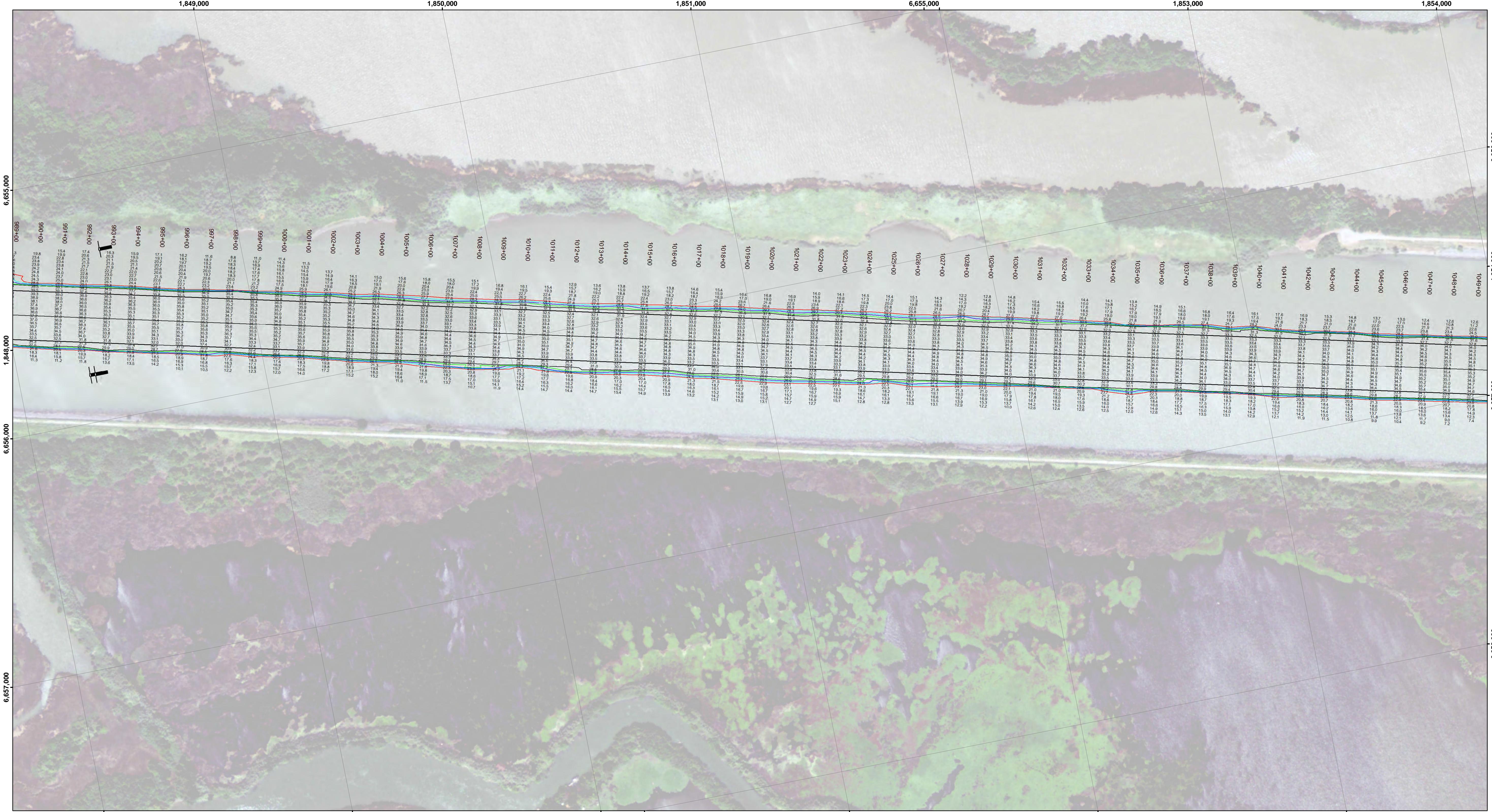


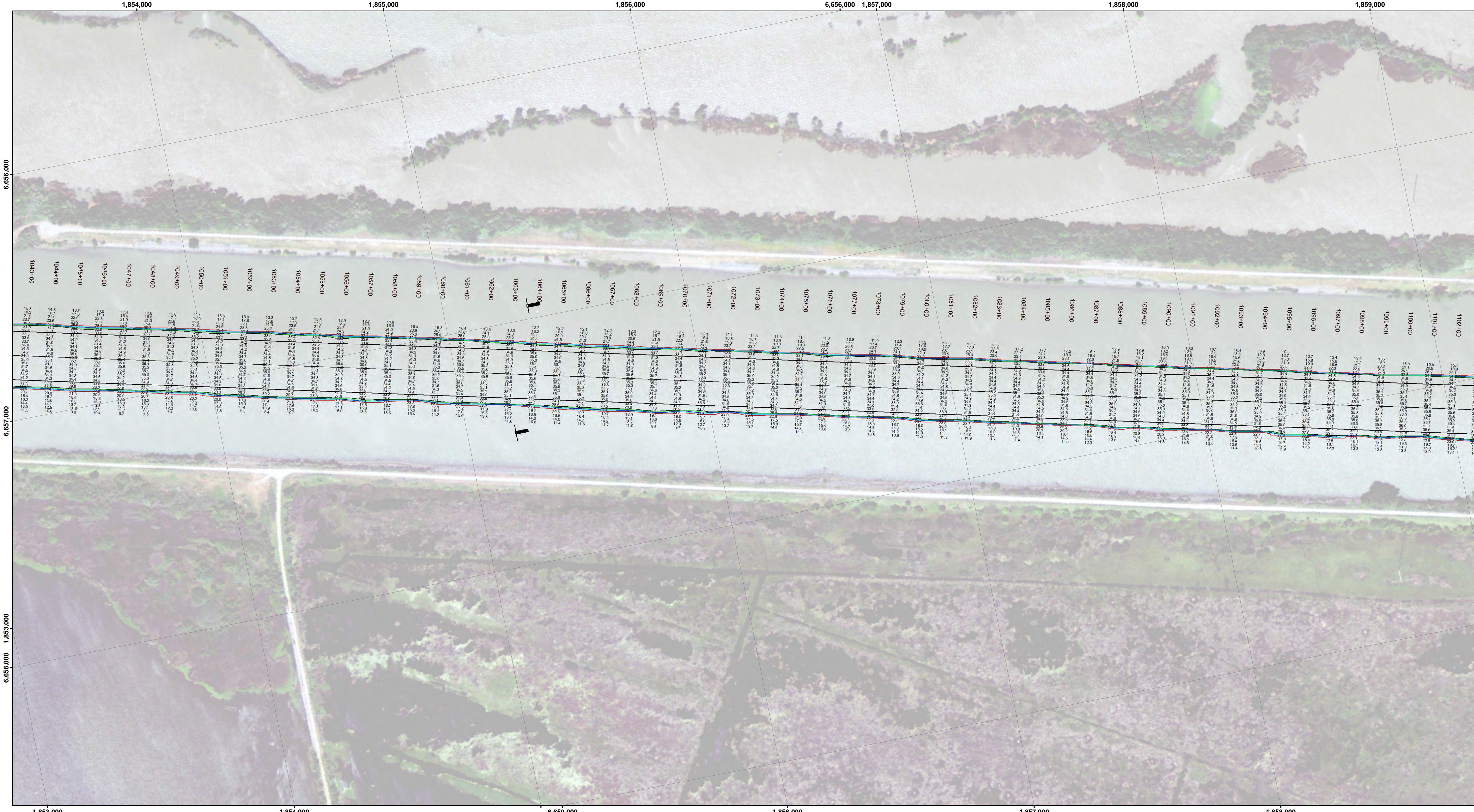
Distribution Limitation: The data represents the results of data collection processing for a specific U.S. Army Corps of Engineers activity and indicates the general condition. As such, it is to be used only for its intended purpose, which is to support engineering activities of the United States government and the dissemination of information and the disclosure of any of the application of the data for other than its intended purpose.

PREPARED UNDER THE DIRECTION OF JOHN C. MORROW	Surveyed By: LT COLONEL C. E. DISTRICT ENGINEER	Chart Date: Sep 04, 2015
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief Hydro Survey Section	Checked By: PDT	
Approved: Chief Construction Branch		

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

SAN JOAQUIN COUNTY
Sheet Reference Number
19 of 45





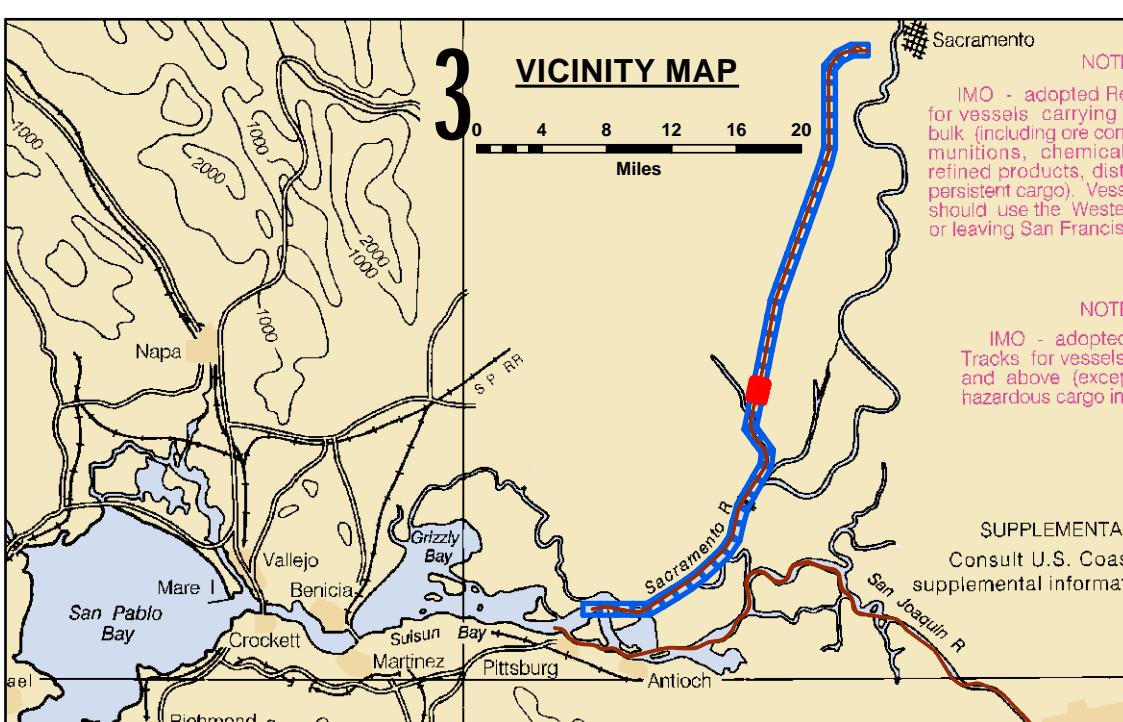
US Army Corps
of Engineers
District: CESPK

Distribution Limit: The data represent the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general conditions. As such, it is to be used only for its intended purpose, which is to support the mission of the US Army Corps of Engineers. It is not to be used for any other purpose than its intended purpose.

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Chart Data: Sep 04, 2015
Surveyed By: [Signature]
Plotted By: PDT
Designed by: [Signature]

California
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

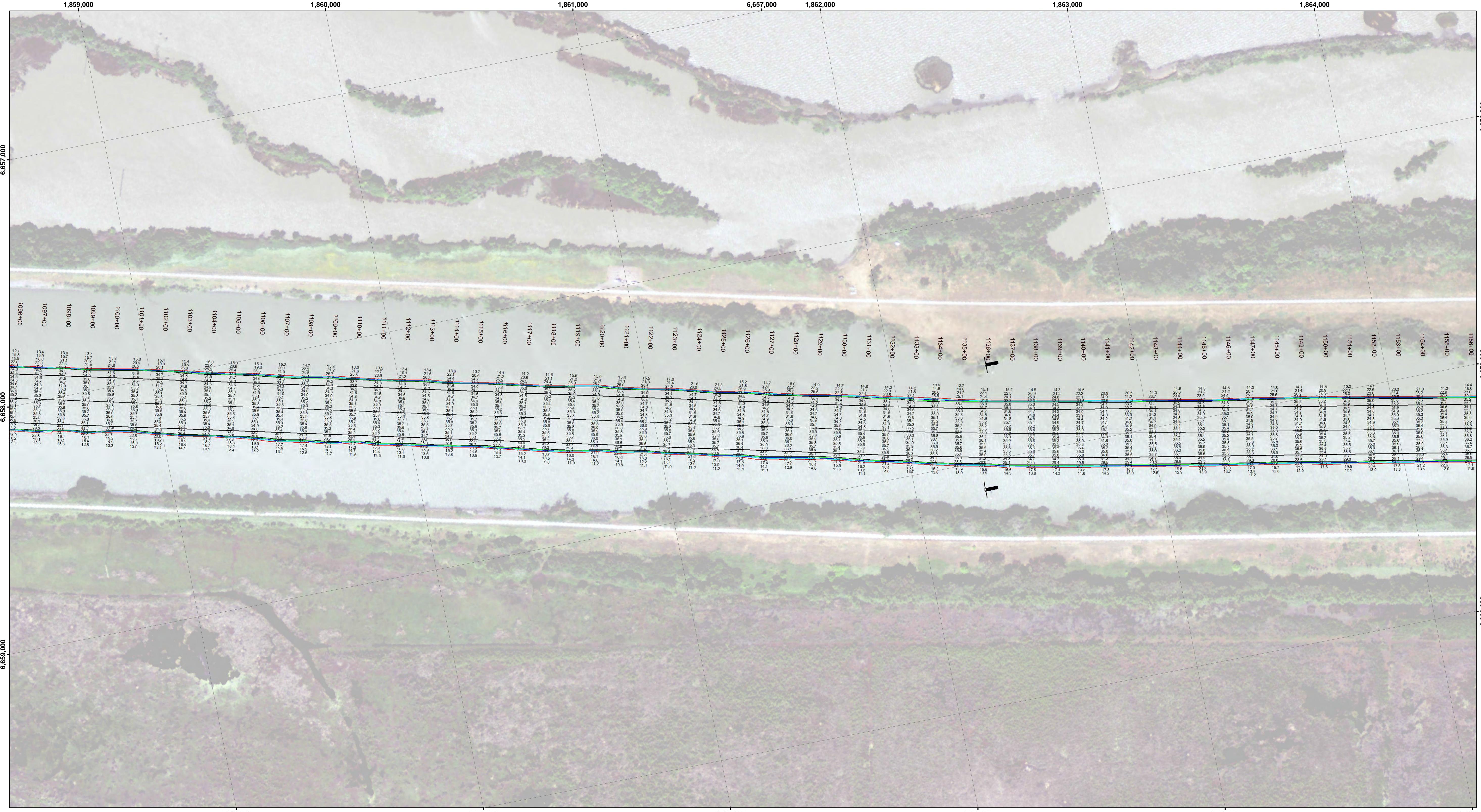
Reference is N.O.A.A. Navigation Chart No. 18521.

STAs: 0-200 - 07 APRIL
STA 200-450 - 09 APRIL
STA 450-600 - 13 APRIL
STA 600-700 - 07 APRIL
STA 700-1100 - 14 APRIL
STA 1100-1600 - 16 APRIL
STA 1600-2000 - 16 APRIL
STA 2000 TO END - 30 APRIL

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 94161316
BENCHMARK: POWS 1 (No PID)
TIDE GAUGE: Nail set @ 10.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS 1 (No PID)
TIDE GAUGE: Nail set @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

Sheet Reference Number
22 of 45



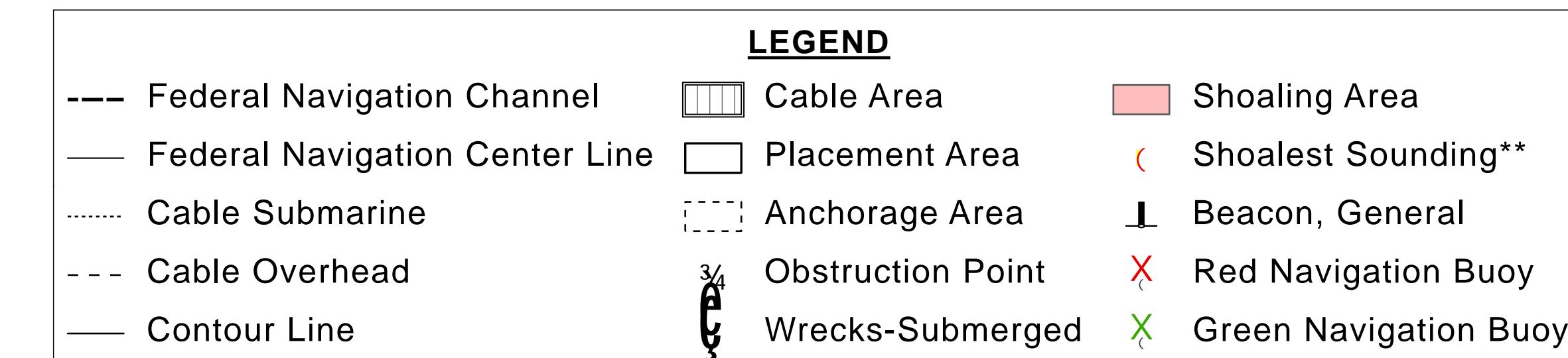
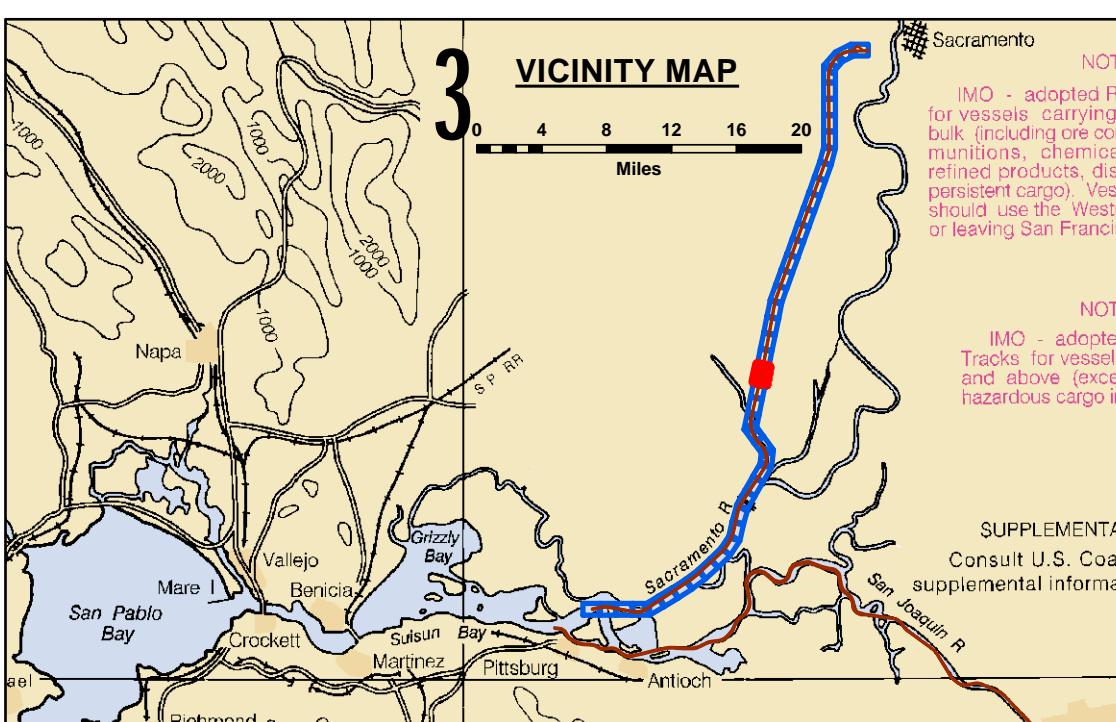
US Army Corps
of Engineers
District: CESPK

Distribution Limit: The data represents the results of data collection/processing for a specific use by the U.S. Army Corps of Engineers activity and indicates the general conditions, as such it is to be used only for that intended purpose. It is not to be used for any other purpose or application without the express written consent of the U.S. Army Corps of Engineers.

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CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

Reference: N.O.A.A. Navigation Chart No. 18521.

STA-0-200 - 07 APRIL

STA-200-450 - 09 APRIL

STA-450-600 - 13 APRIL

STA-600-700 - 07 APRIL

STA-700-1100 - 14 APRIL

STA-1100-1600 - 16 APRIL

STA-1600-2000 - 16 APRIL

STA-2000 TO END - 30 APRIL

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 94161316

BENCHMARK: 5316 B 1996 (No PID)

TIDE GAUGE: Nail @ 8.0 ft MLLW

METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO

NOAA STATION: 94161311

BENCHMARK: P0WS1 (No PID)

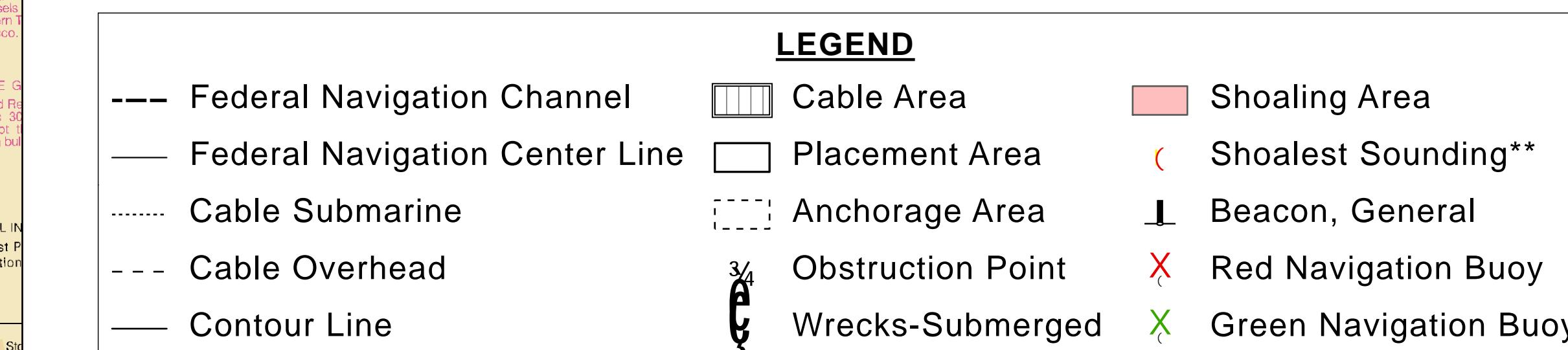
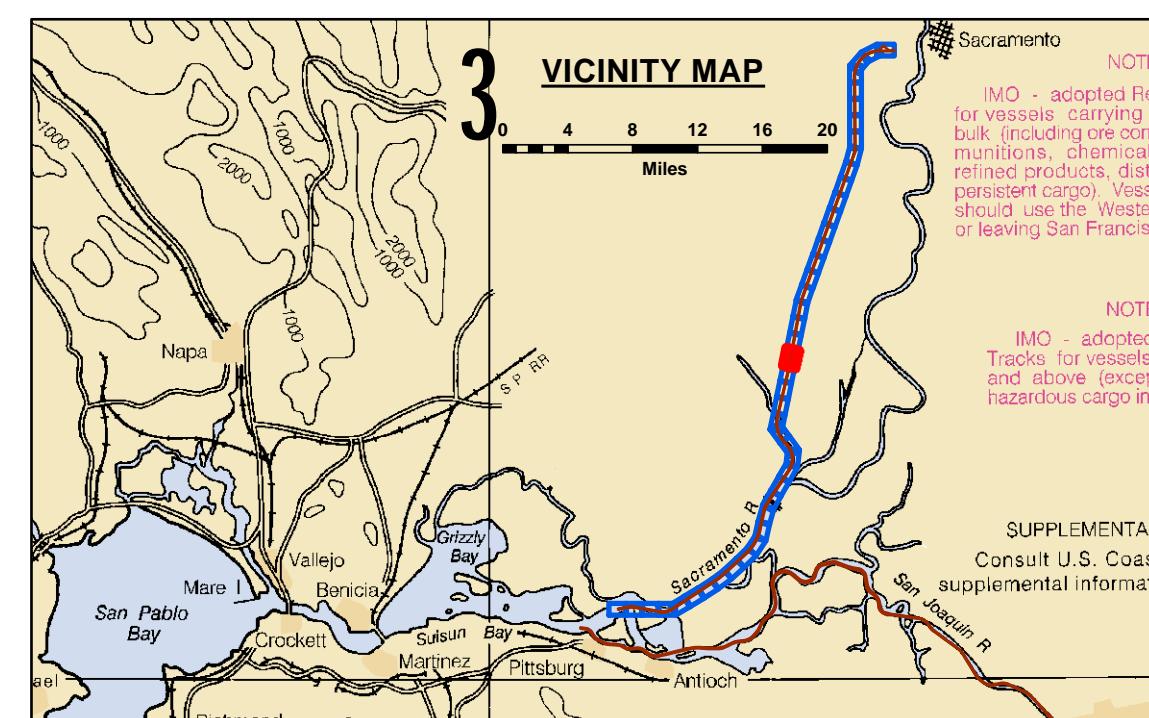
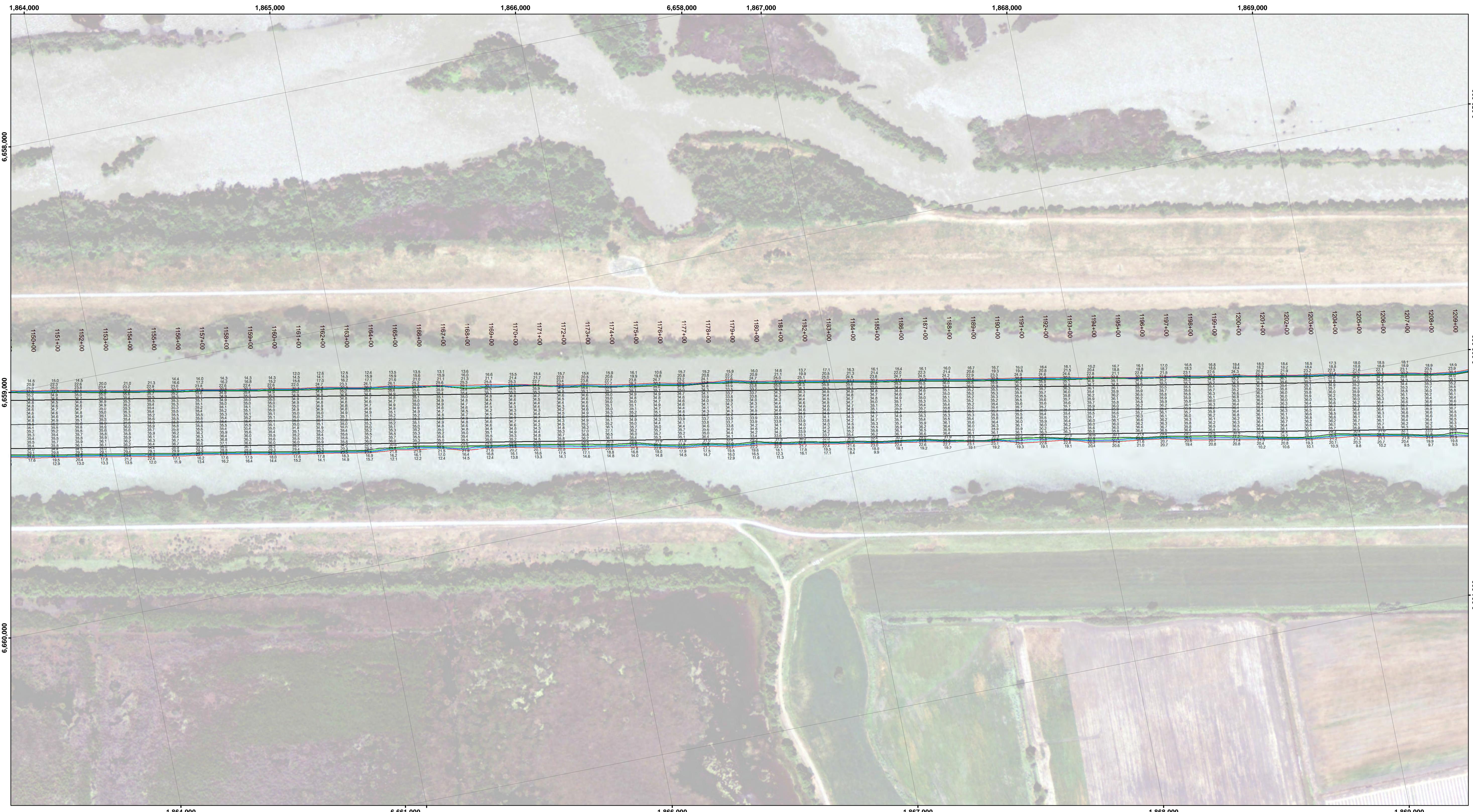
TIDE GAUGE: Nail @ 10.0 ft MLLW

METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

Sheet Reference Number
23 of 45

Chart Date: Sep 04, 2015
Surveyed By: PDT
Plotted By: PDT
Checked By: PDT
Drawn By: PDT



NOTES:

Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.

Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

The location of navigation aids are base on and provided by the U.S. Coast Guard.

2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:

- Drawing not to be used for navigation.
- Project Depth -30'
- Tide gauge
- Equipment statement

CONTROLS:

- LOCATION: RIO VISTA
- NOAA STATION: 9416131
- BENCHMARK: 5316 B 1996 (No PID)
- TIDE GAUGE: Nail @ 8.2 ft MLLW
- METADATA: Nail set by USACE 31 March, 2014

LOCATION:

- PORT OF WEST SACRAMENTO
- NOAA STATION: 9416131
- BENCHMARK: P0WS1 (No PID)
- TIDE GAUGE: Nail @ 10.0 ft MLLW
- METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

US Army Corps of Engineers District: CESPK

Disclaimer: The data represents the results of data collection/processing for a specific use by the U.S. Army Corps of Engineers activity and indicates the general conditions. As such, it is the responsibility of the user to evaluate the data for its intended purpose. The U.S. Army Corps of Engineers shall not be liable for damages resulting from the use of the data for other than its intended purpose.

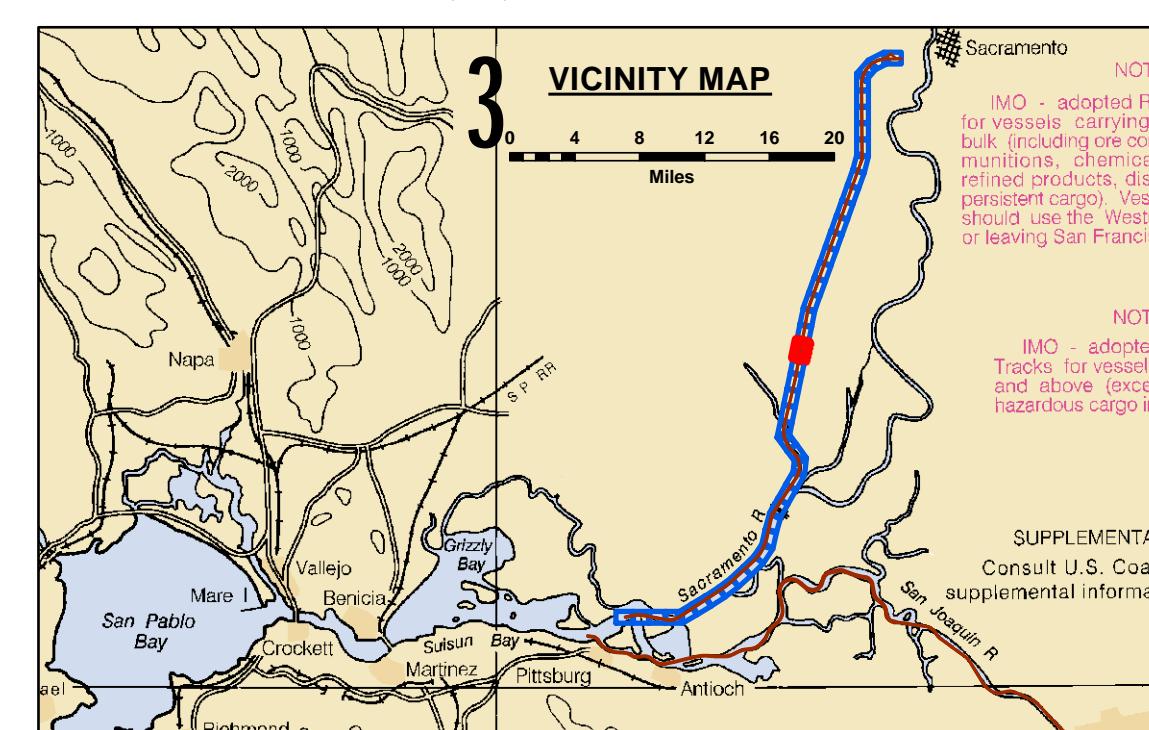
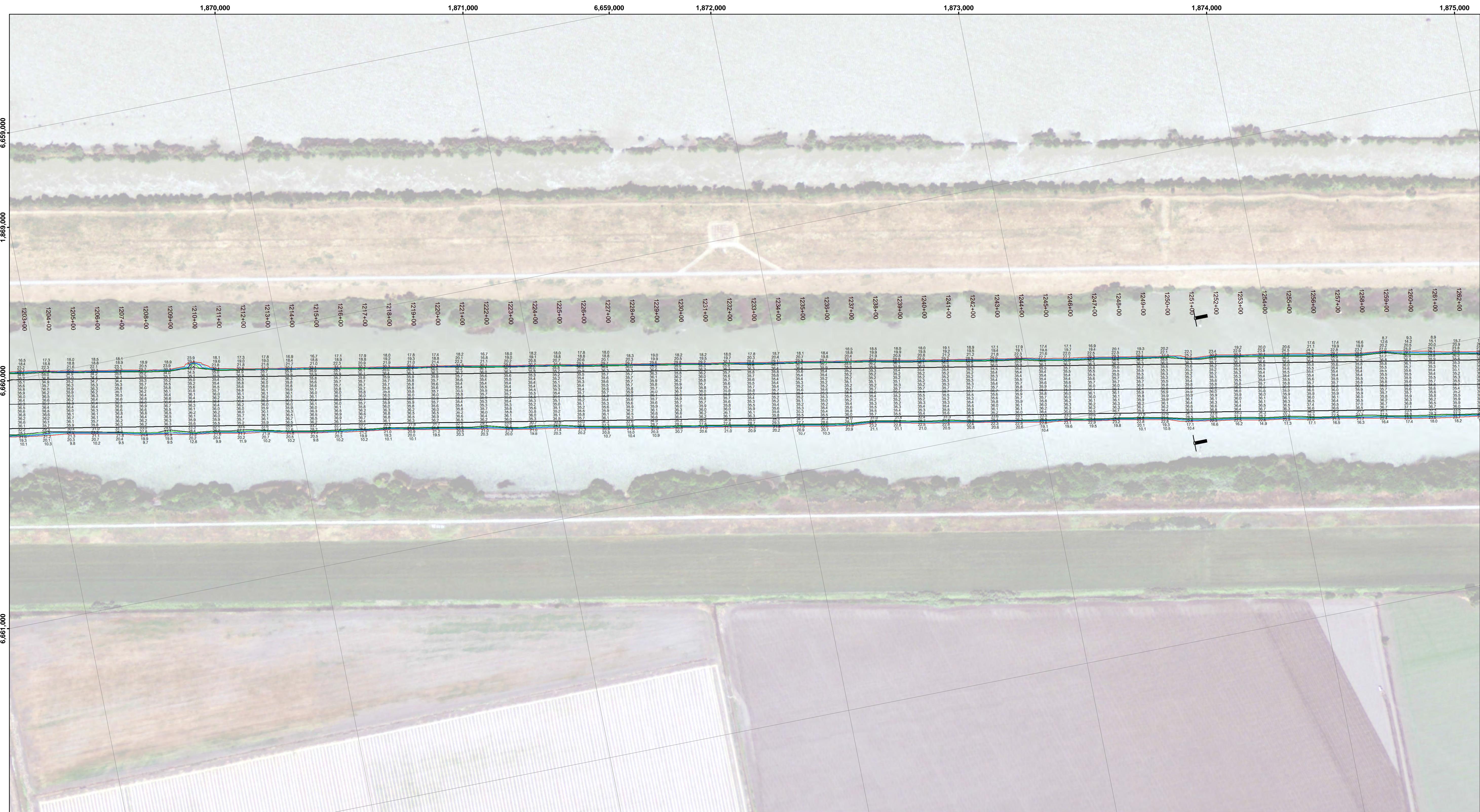
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PREPARED UNDER THE DIRECTION OF JOHN C. MORROW
LT COLONEL, C. DISTRICT ENGINEER
Submitted: Hydro Survey Team Leader
Plotted: PDT
Checked: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

Chart Date: Sep 04, 2015
Designed by: PDT
Drawn by: PDT

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
24 of 45



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.
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2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference: N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: P0WS1 (No PID)
TIDE GAUGE: Nail @ 8.2 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: P0WS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015
SAN JOAQUIN COUNTY
Sheet Reference Number
25 of 45



Distribution Limit: The data represents the results of a survey conducted by the United States Army Corps of Engineers activity and indicates the general conditions. As such, it is to be used for its intended purpose, which is to support engineering activities of the United States Army Corps of Engineers and its contractors. The data is not to be used for any other purpose than its intended purpose.

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LTCOLONEL, C.E. DISTRICT ENGINEER
Hydro Survey Team Leader

Submitted: _____

Plotted By: PDT

Designed by: _____

Hydro Survey Team Leader

Recommended: _____

Chief Hydro Survey Section

Checked By: PDT

Drawn by: PDT

Drawn: PDT

Chart Date: Sep 04, 2015

Surveyed By: _____



US Army Corps
of Engineers
District: CESPK

Distribution Limitation: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general conditions under which it was collected. It is the responsibility of the user to determine its suitability for other purposes.

NOTE:

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DISCLAIMER:

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The recipient may not retain these data as other than the Government provided data.

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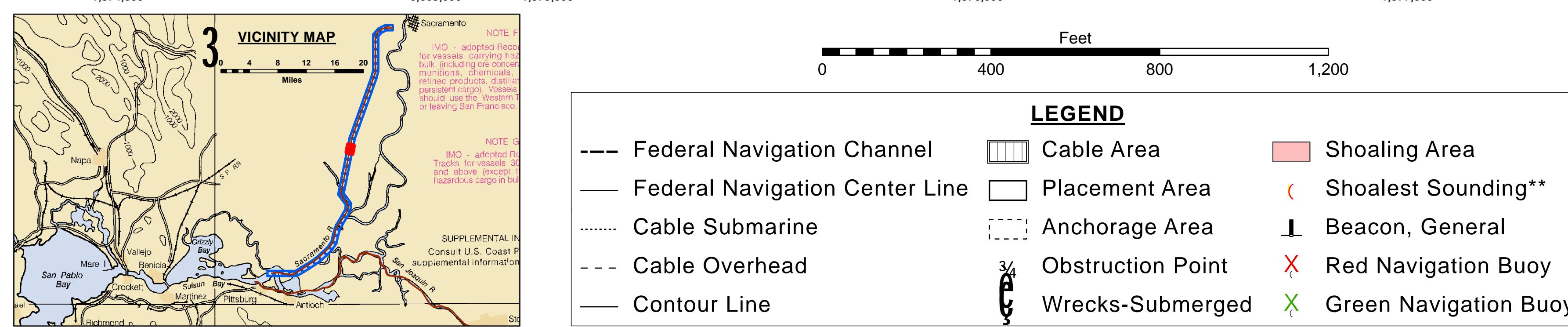
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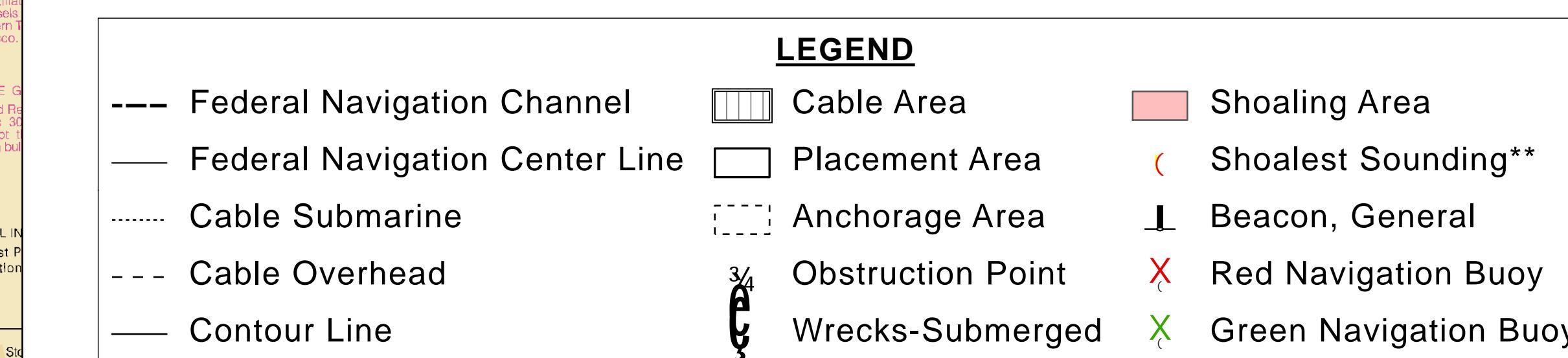
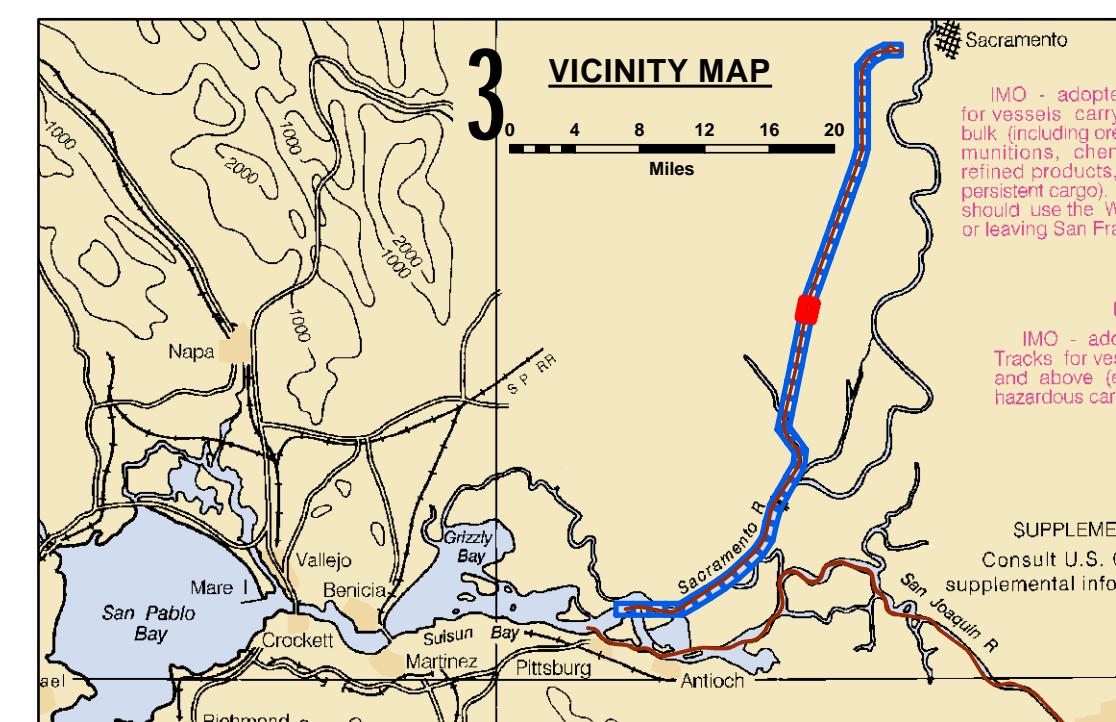
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NOTES:
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Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.

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The location of navigation aids are base on and provided by the U.S. Coast Guard.

2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

Reference is N.O.A.A. Navigation Chart No. 18521.

CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: RIO VISTA
NOAA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

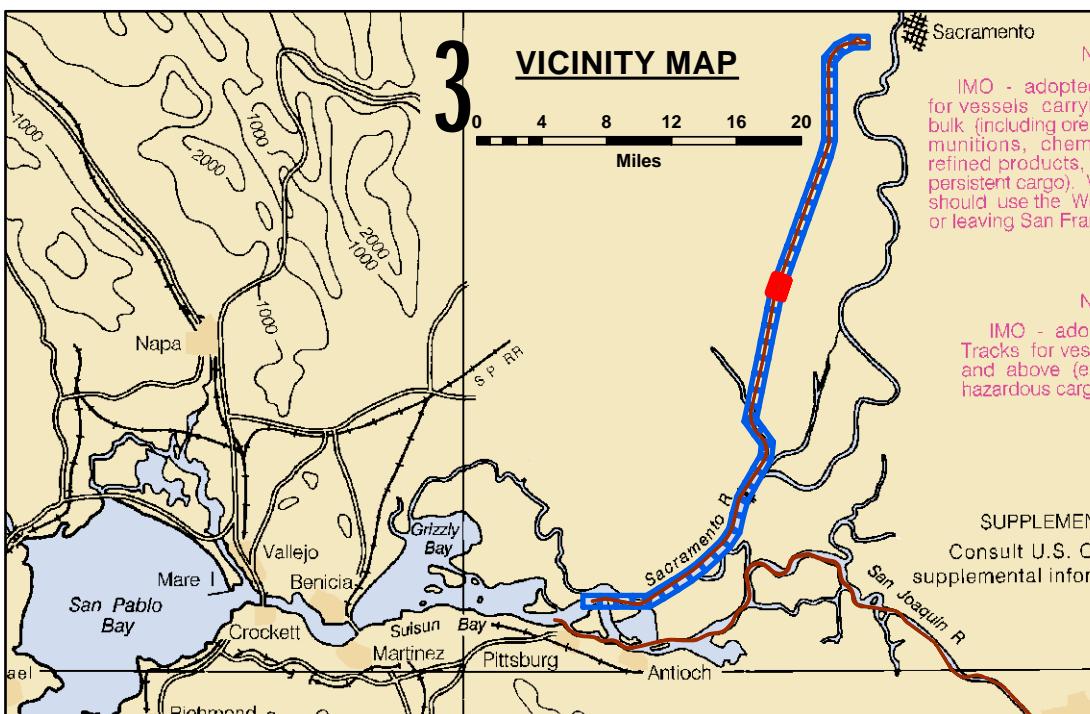
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
27 of 45

US Army Corps of Engineers District: CESPK

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LTCOLONEL, C.E. DISTRICT ENGINEER
Submitted: Hydro Survey Team Leader
Plotted By: PDT
Chart Date: Sep 04, 2015
Designed by: PDT
Drawn by: PDT
Checked By: Chief, Hydro Survey Section
Approved: Chief, Construction Branch



US Army Corps of Engineers
District: CESPK

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Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 8.2 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

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Sheet Reference Number
28 of 45



US Army Corps
of Engineers
District: CESPK

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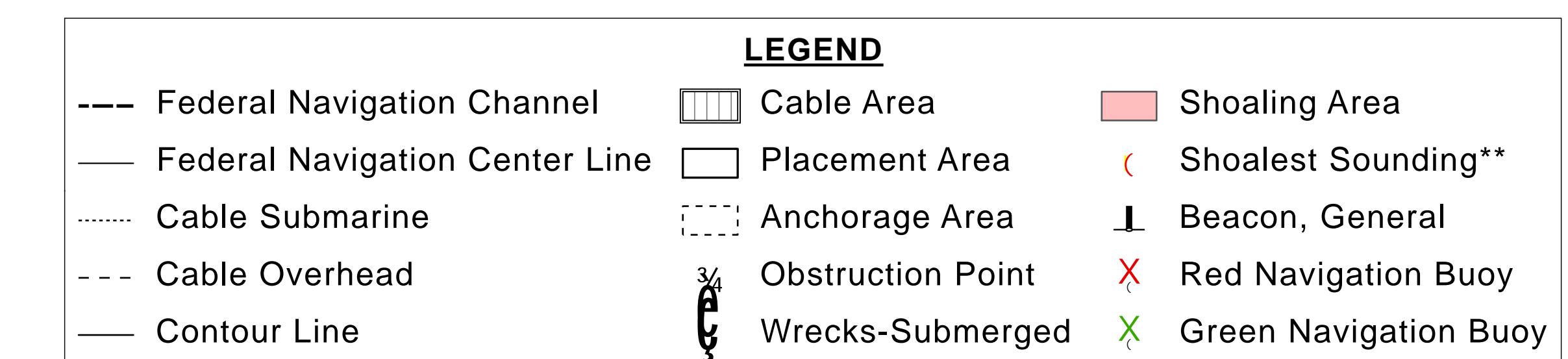
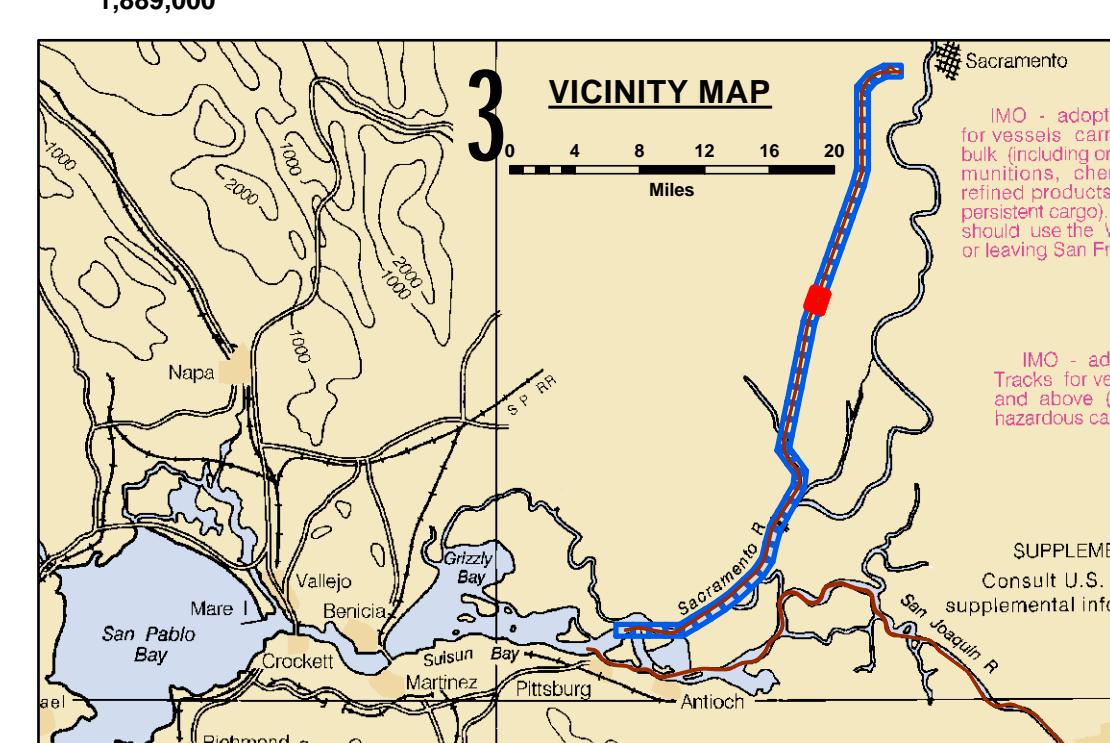
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NOTES:

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2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9416131
BENCHMARK: P051 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: P051 S 0 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
29 of 45

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C. DISTRICT ENGINEER
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Chart Date: Sep 04, 2015
Surveyed By: PDT
Plotted By: PDT
Designed by: PDT
Hydro Survey Team Leader: PDT
Recommended: Chief, Hydro Survey Section
Checked By: Chief, Construction Branch
Drawn by: PDT
Approved: Chief, Construction Branch



US Army Corps
of Engineers
District: CESPK

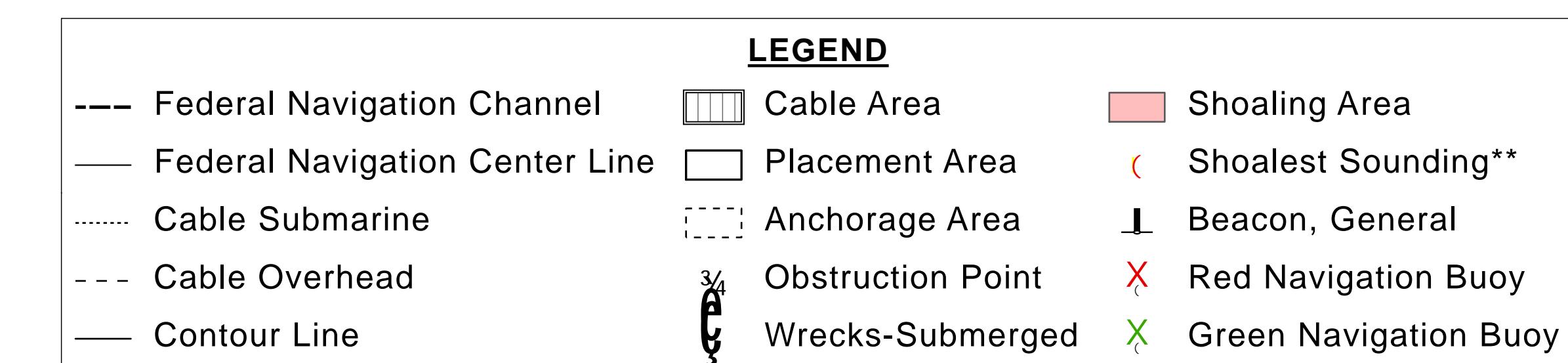
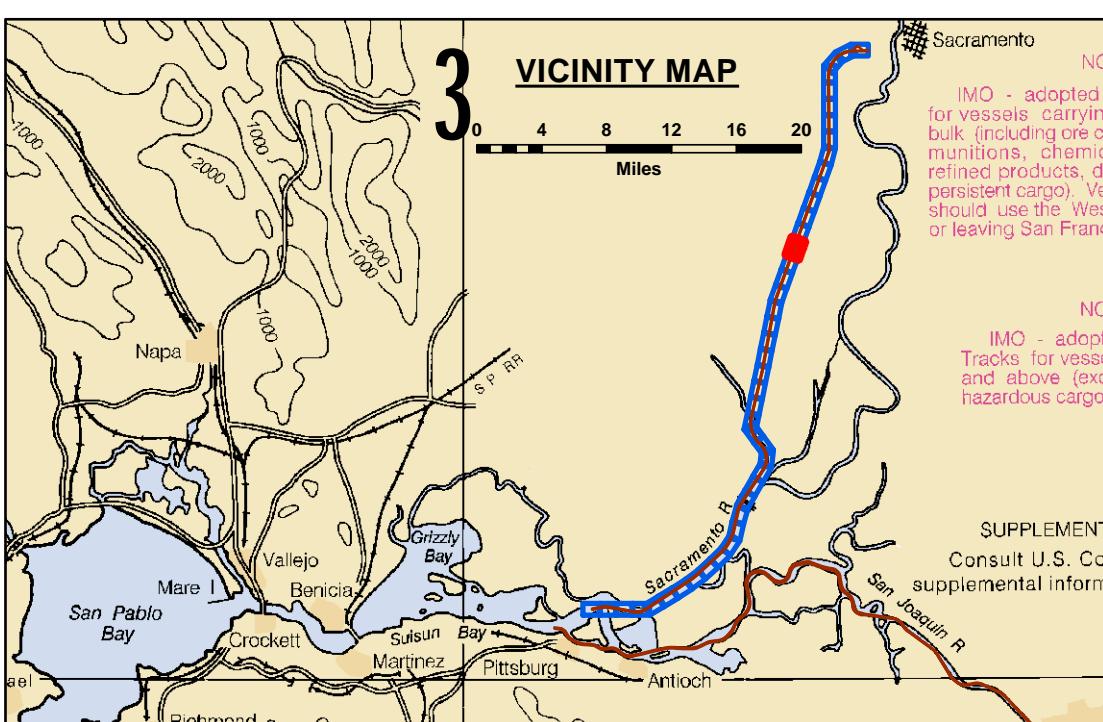
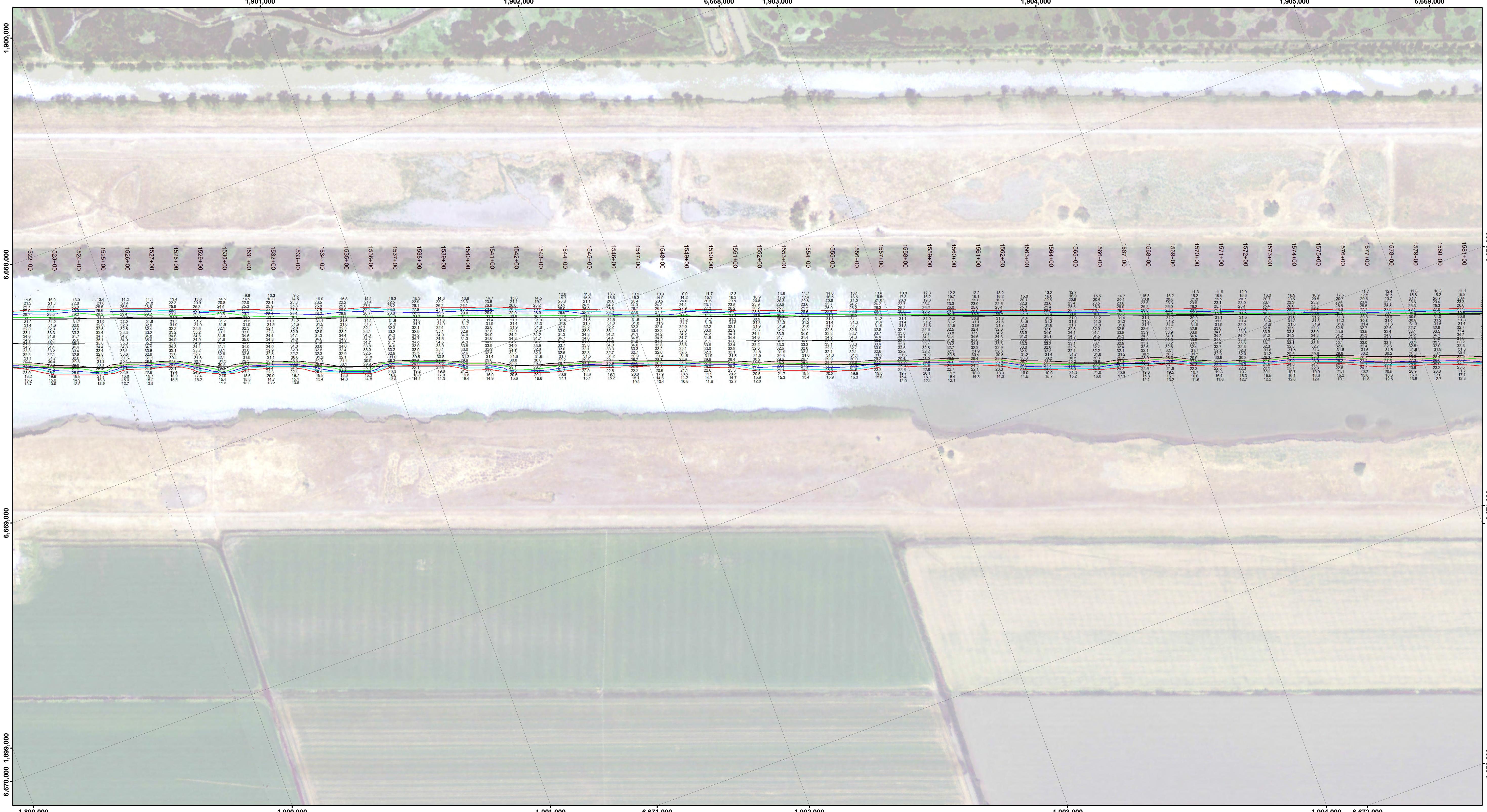
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 2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
 Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
 Drawing not to be used for navigation.
 Project Depth -30'
 Tide gauge
 Equipment statement
CONTROLS:
 LOCATION: RIO VISTA
 NOAA STATION: 9416131
 BENCHMARK: POWS 1 (No PID)
 TIDE GAUGE: Nail @ 8.2 ft MLLW
 METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
 NOAA STATION: 9416131
 BENCHMARK: POWS 1 (No PID)
 TIDE GAUGE: Nail set by USACE 8 April, 2014
 METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

US Army Corps of Engineers District: CESPK

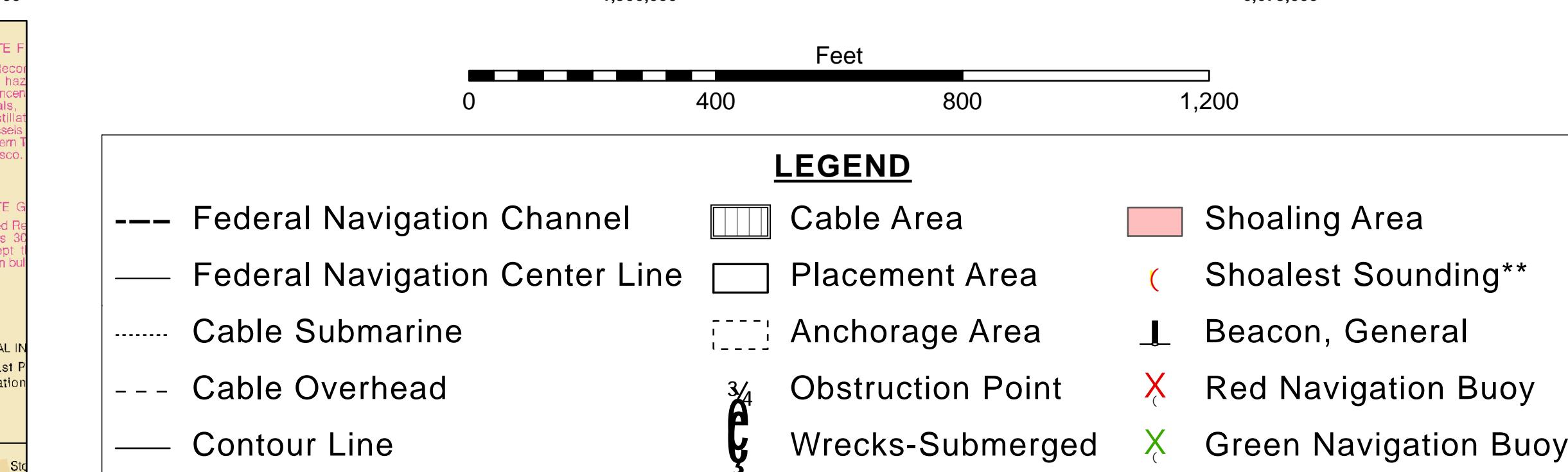
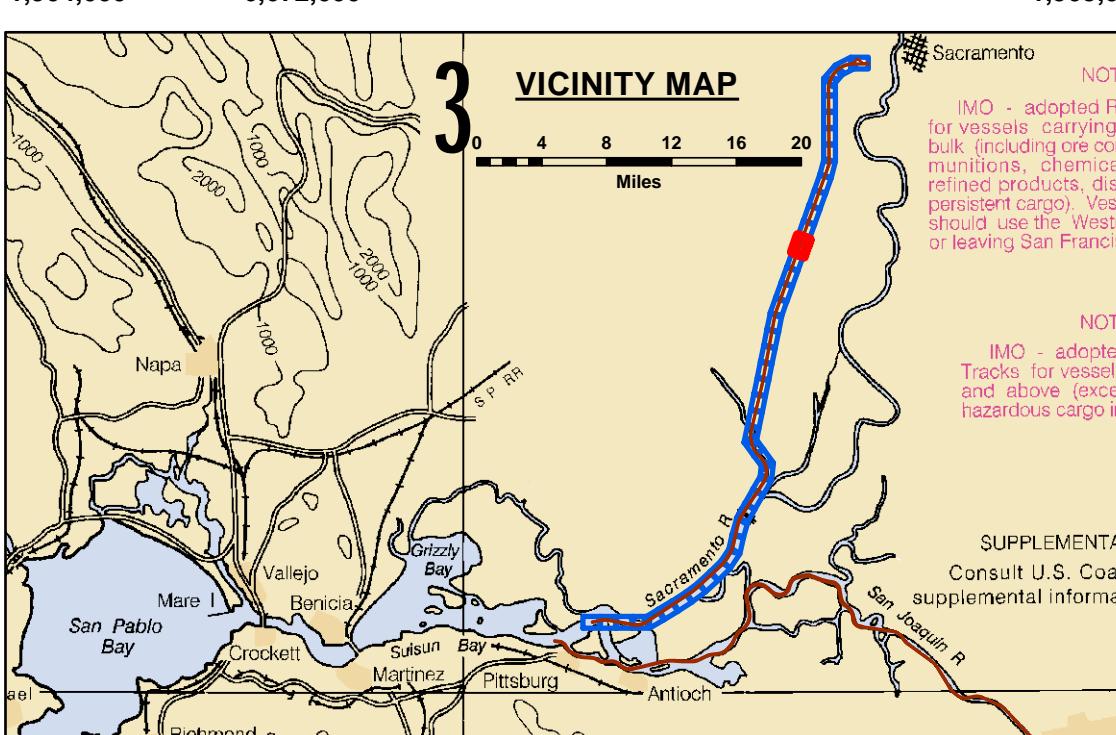
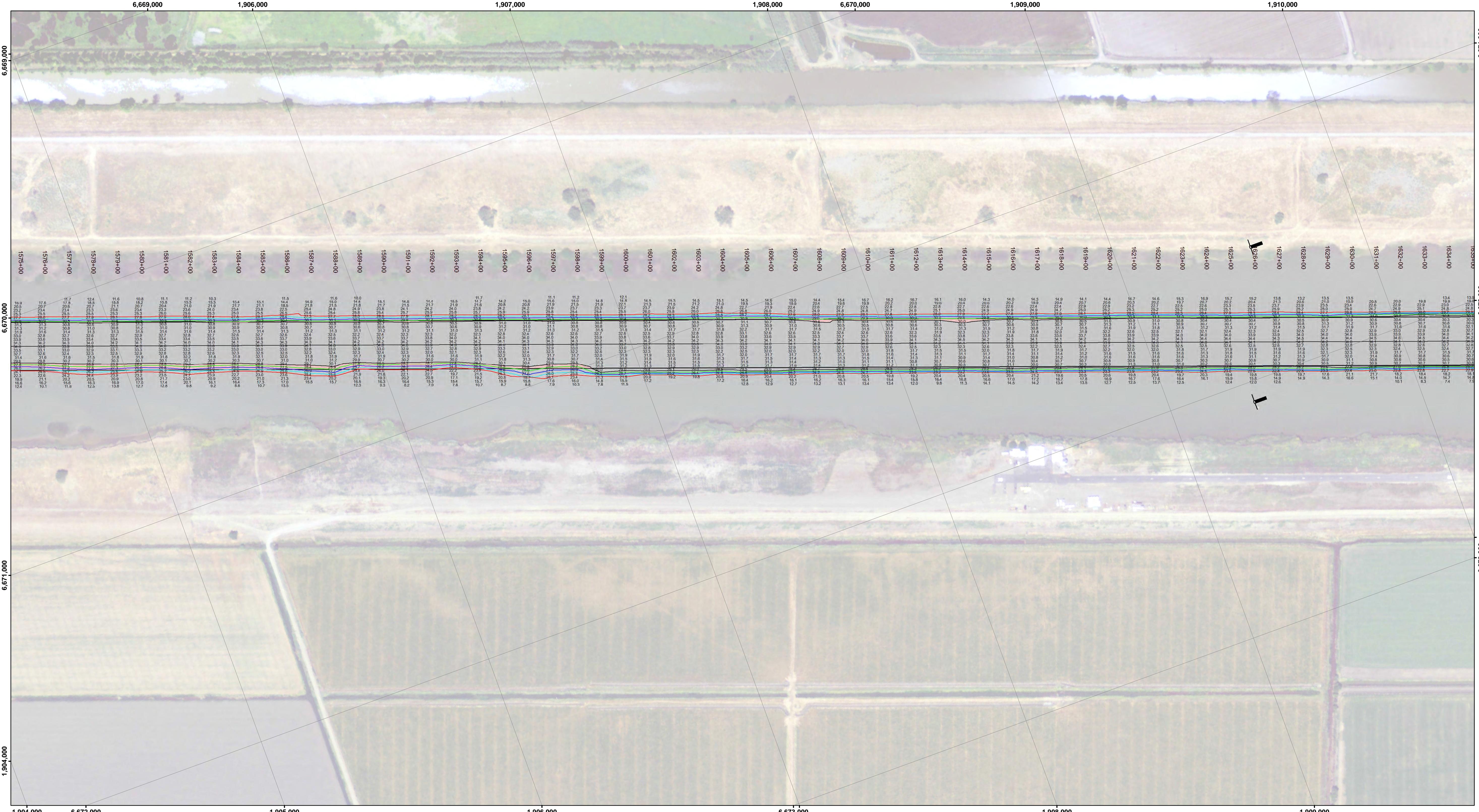
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Prepared Under the Direction of: JOHN C. MORROW Lt Colonel, C.E. DISTRICT ENGINEER	Surveyed By: Chart Date: Sep 04, 2015
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Checked By: Chief, Hydro Survey Section
Recommended by: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
 7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
31 of 45



US Army Corps of Engineers District: CESPK

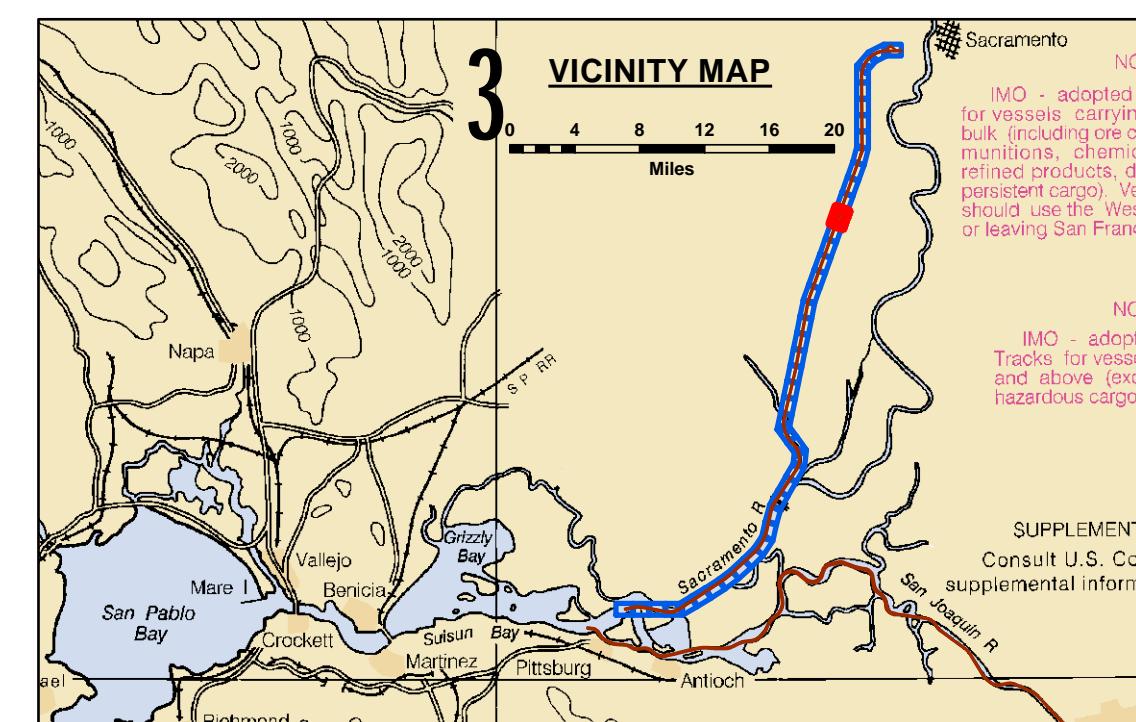
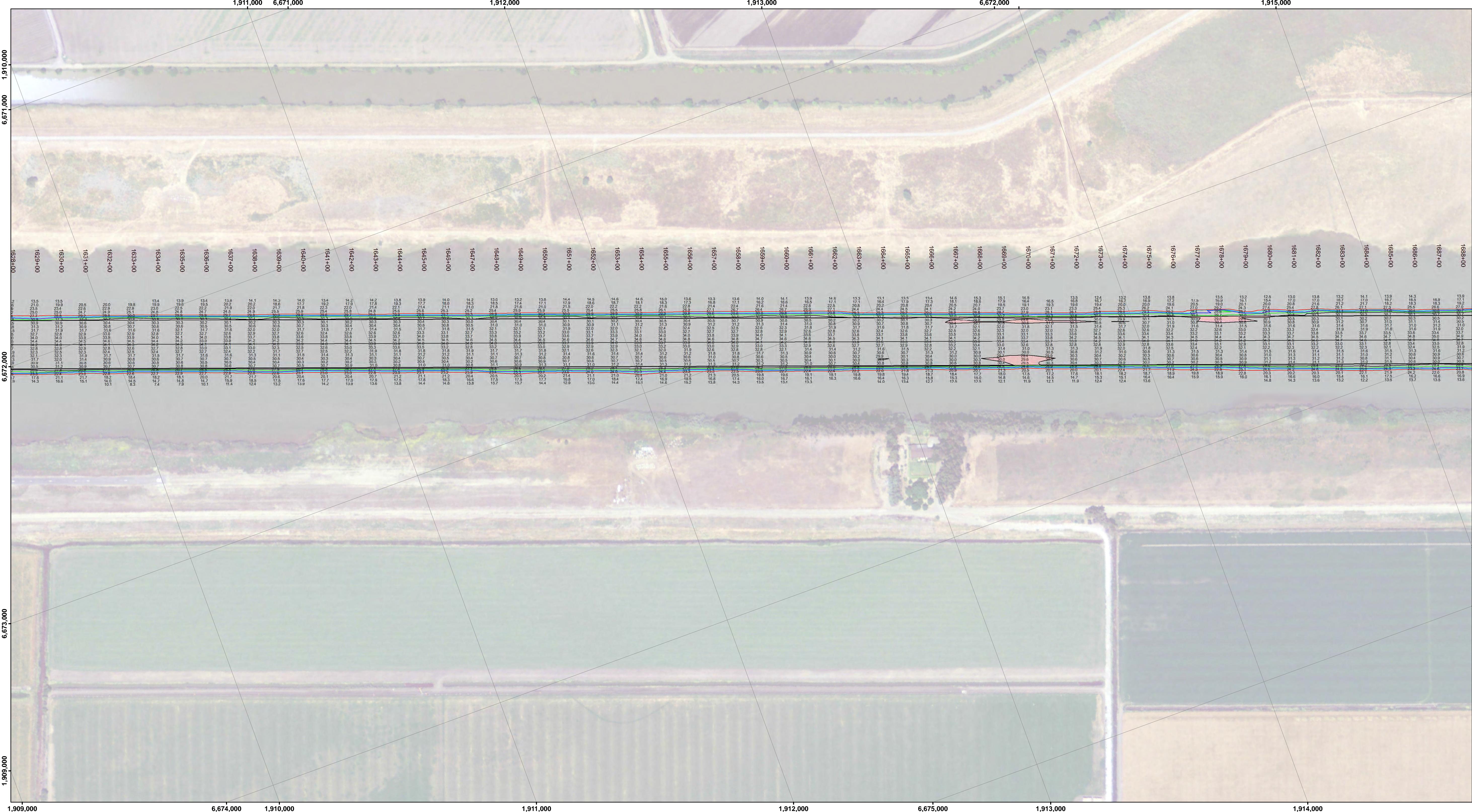
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PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By: Submitted by: Hydro Survey Team Leader	Chart Date: Sep 04, 2015 Plotted By: PDT
		Recommended by: Chief, Hydro Survey Section Checked by: PDT Approved: Chief, Construction Branch

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
32 of 45



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
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2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail set @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail set @ 8.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
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SAN JOAQUIN COUNTY
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number
33 of 45

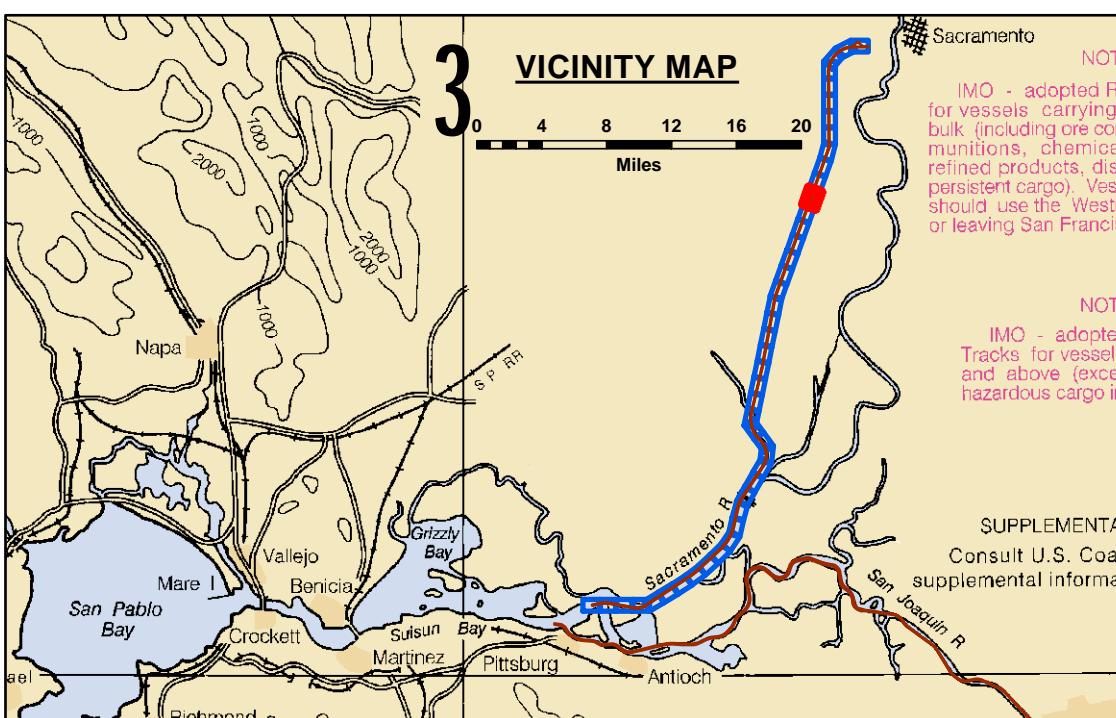
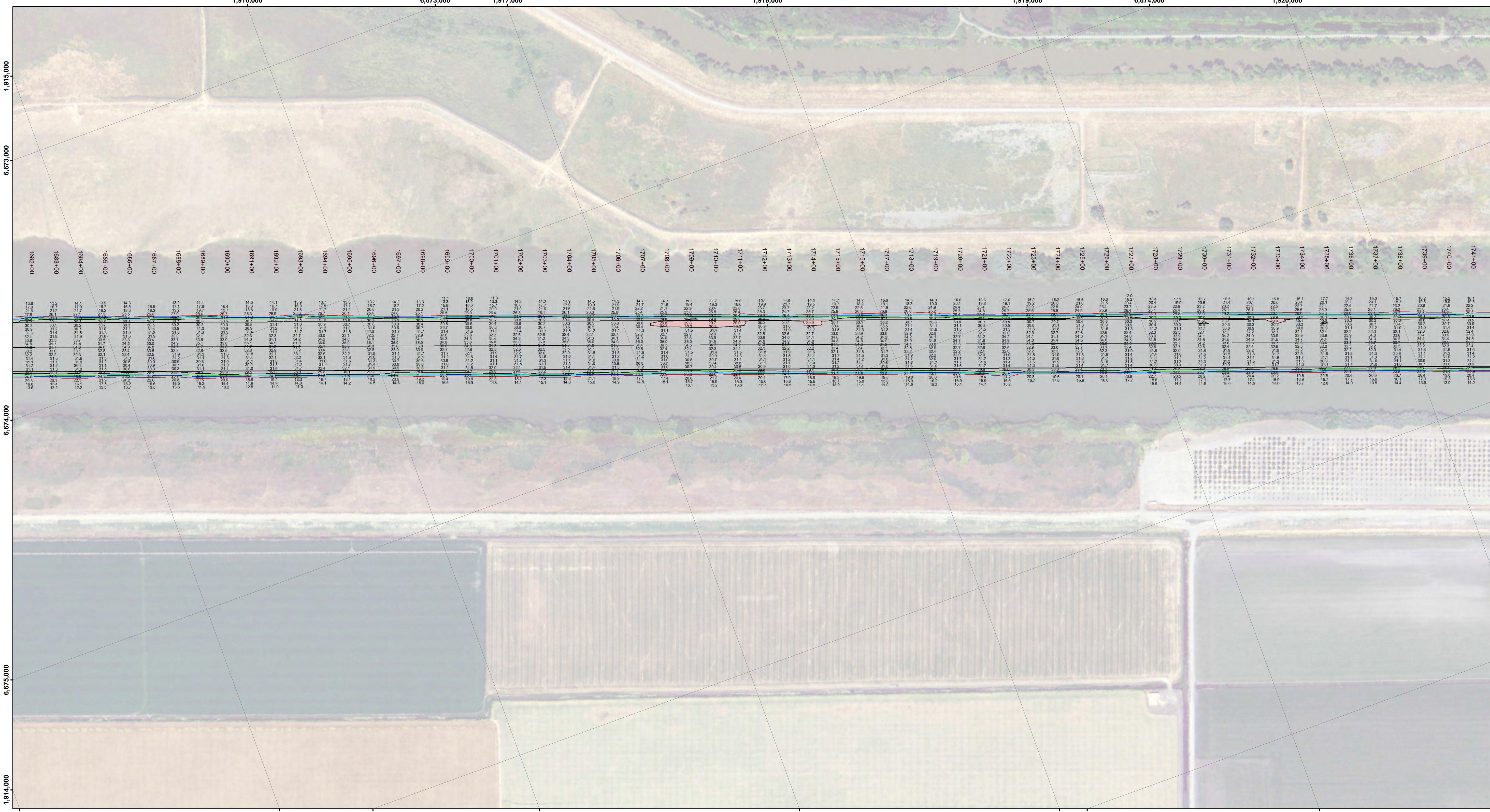


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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW	Sept 04, 2015	
LT COLONEL, C.E. DISTRICT ENGINEER	Designed by:	
	PDT	
Submitted: Hydro Survey Team Leader	Plotted By:	PDT
Recommended: Chief, Hydro Survey Section	Checked By:	PDT
Approved: Chief, Construction Branch	Drawn by:	PDT

US Army Corps of Engineers District: CESPK



US Army Corps
of Engineers
District: CESPK

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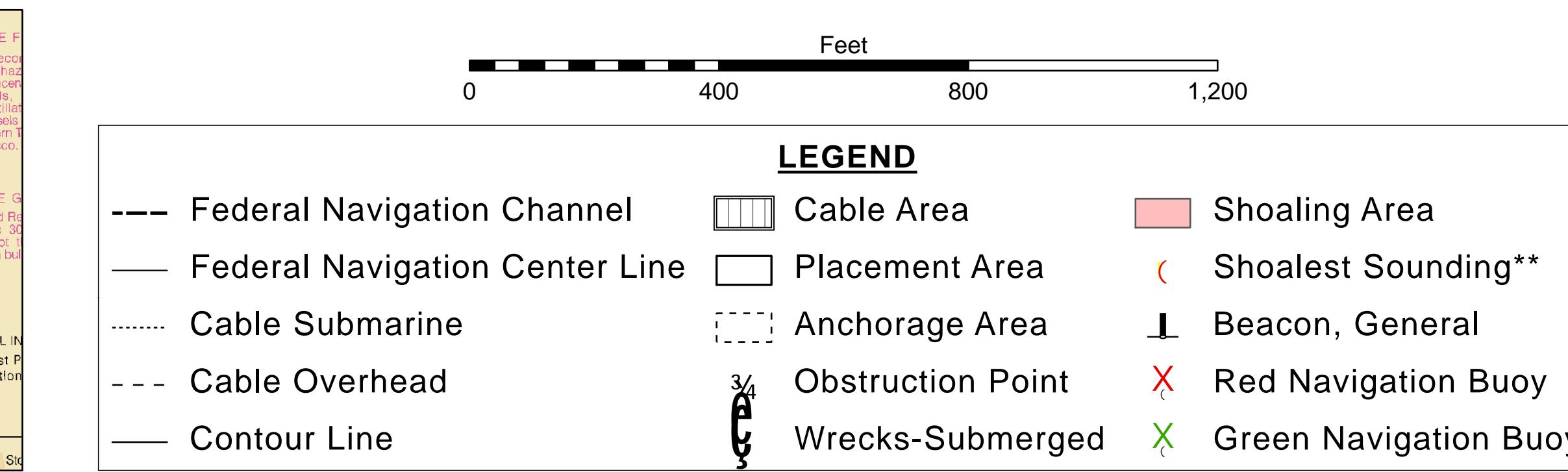
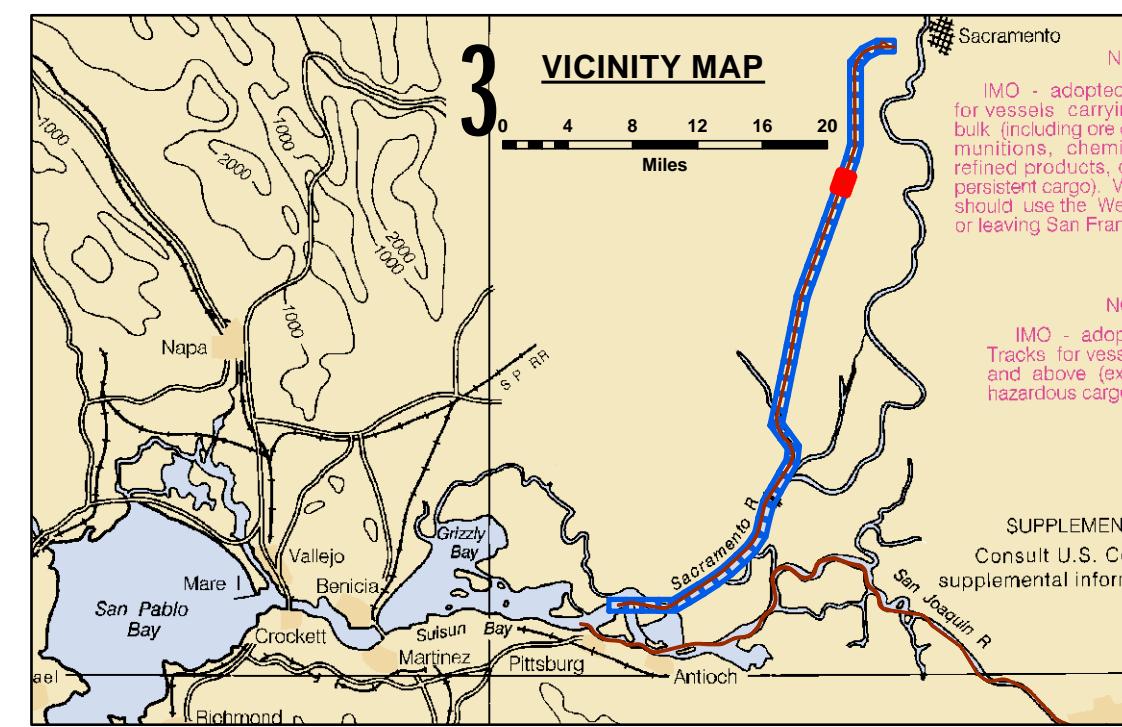
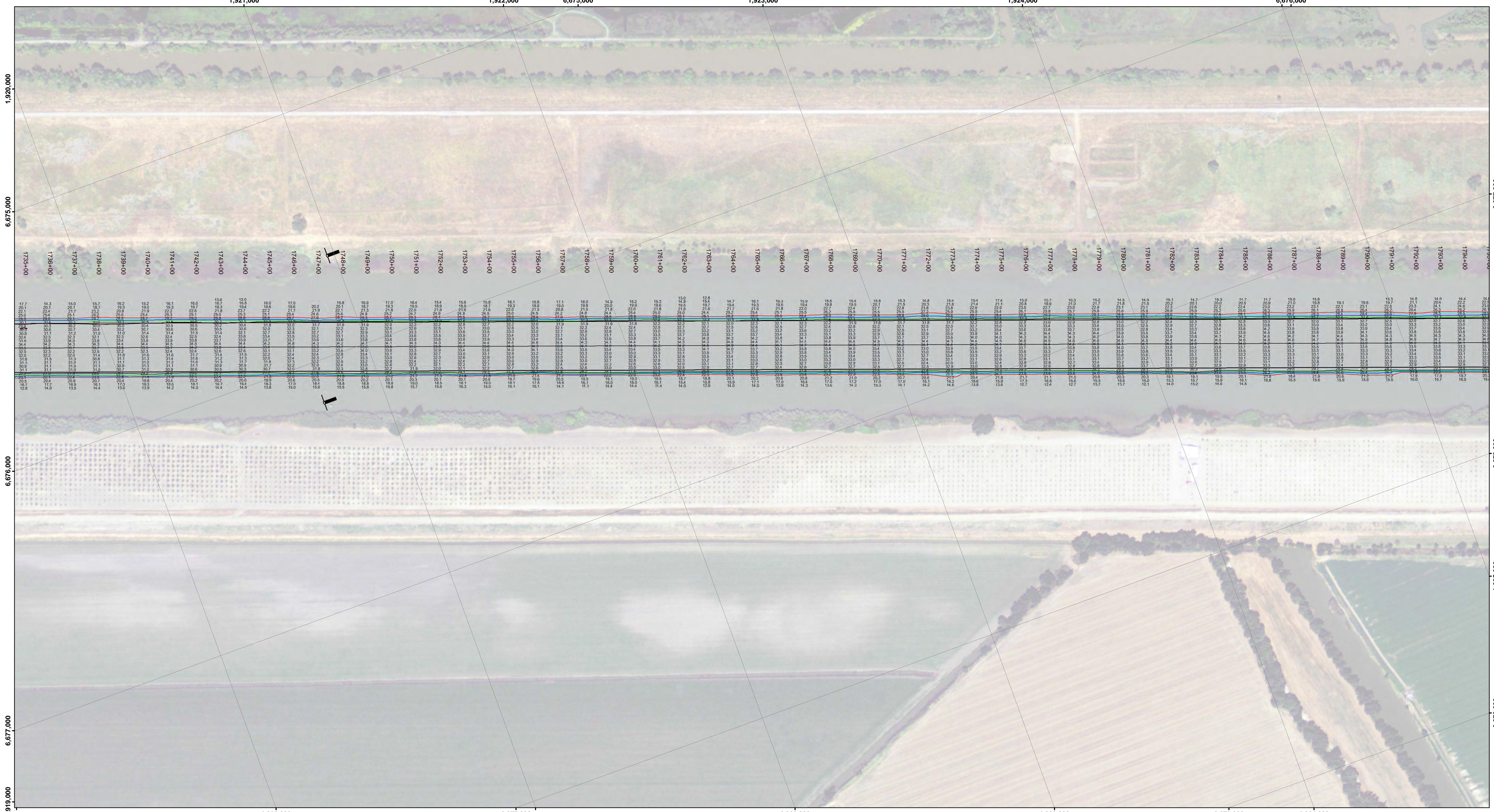
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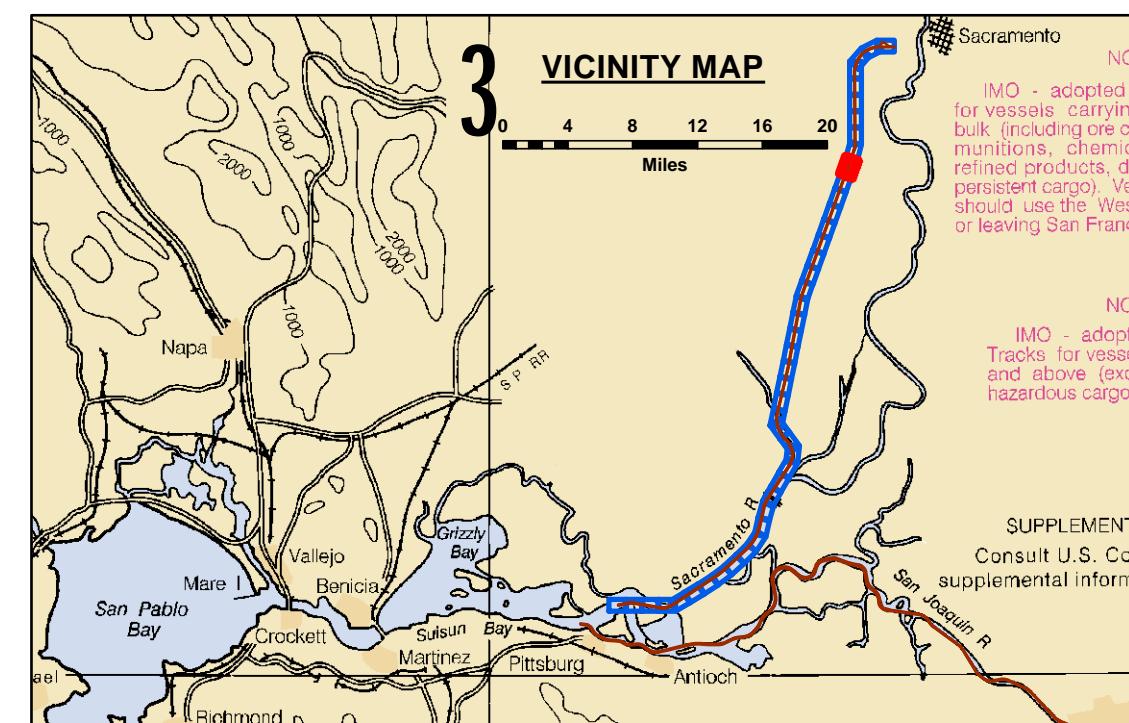
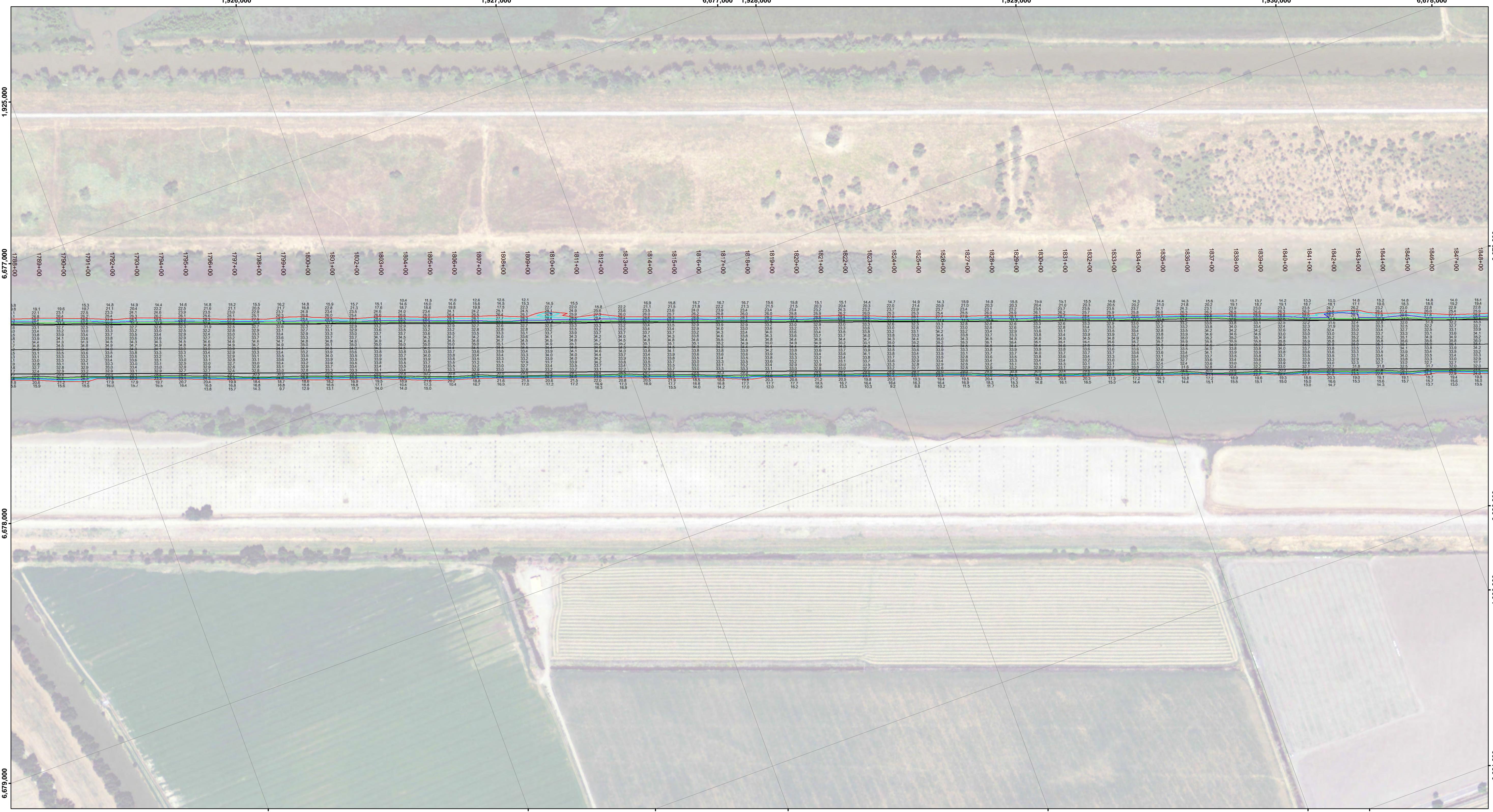
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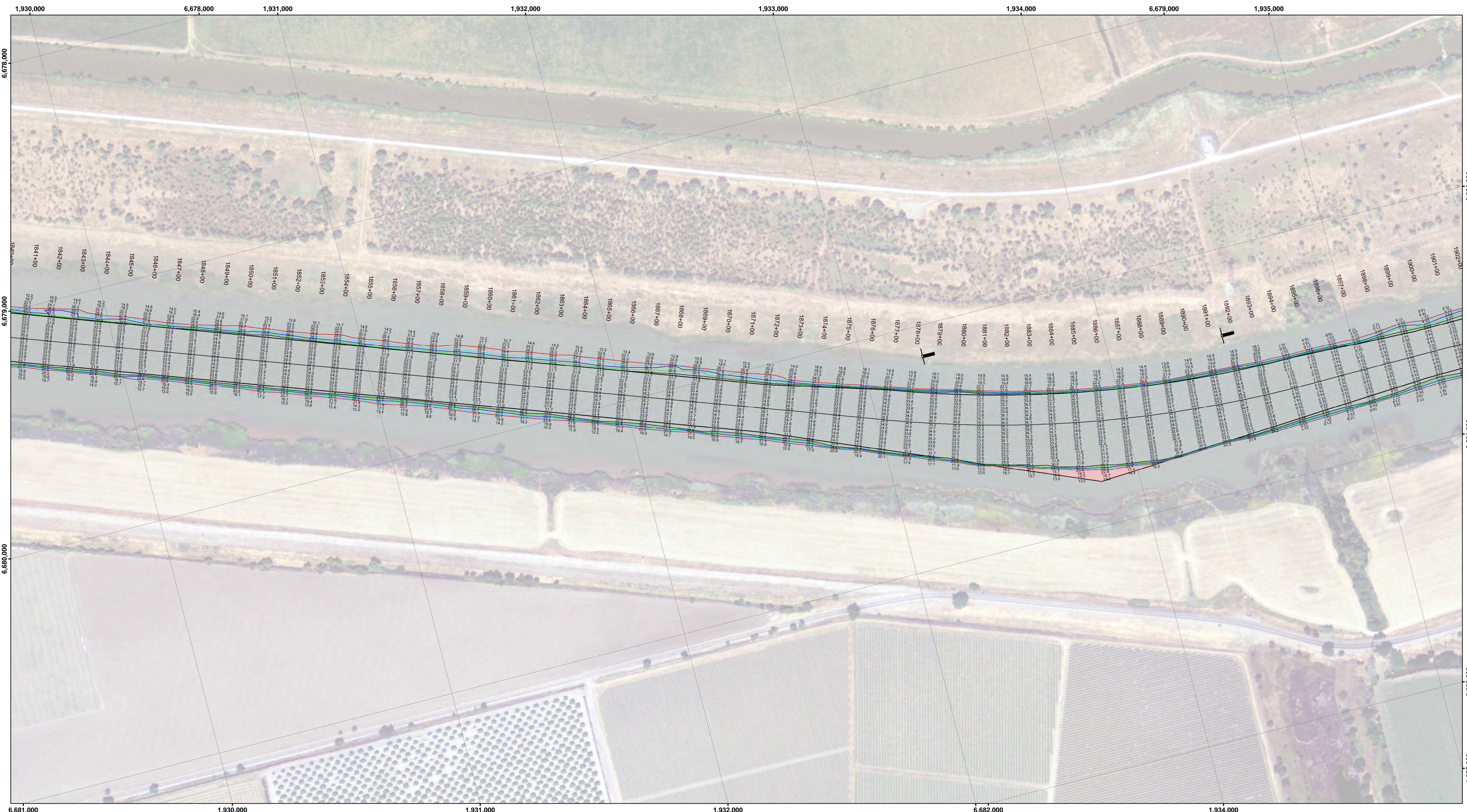


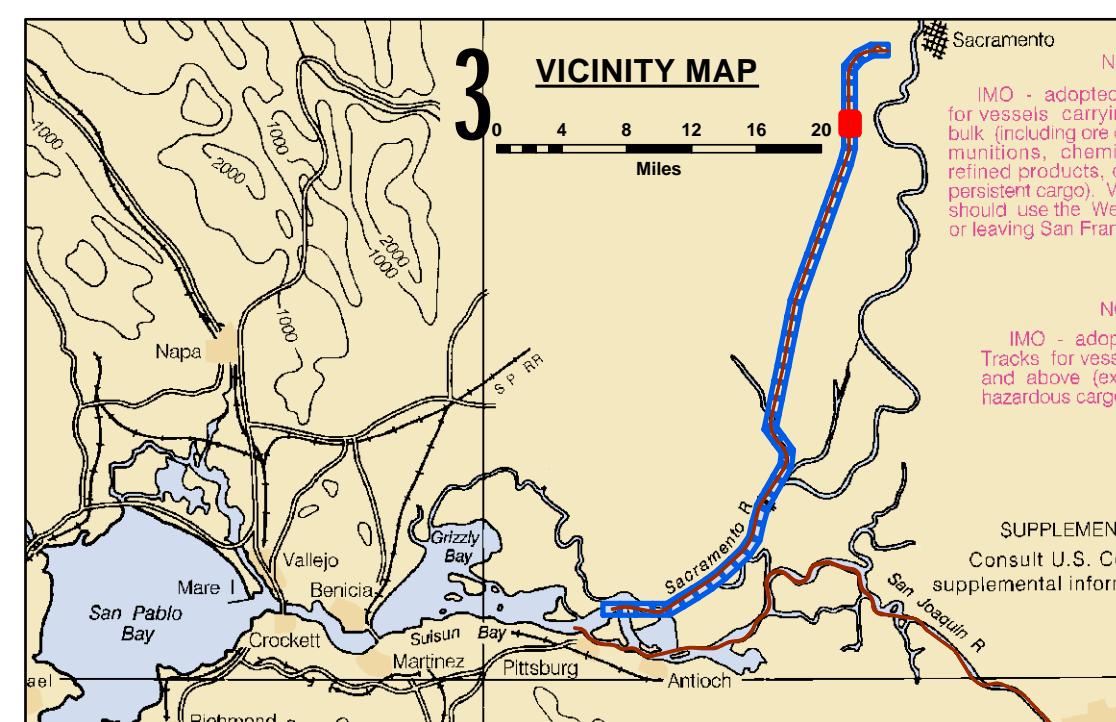
Distribution Limitation: The data represent the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general conditions. As such, it is the responsibility of the user to evaluate the data and determine its suitability for its intended use, and to make any necessary corrections before applying the data for other than its intended purpose.

PREPARED UNDER THE DIRECTION OF	JOHN C. MORROW	Chart Date:	Sep 04, 2015
LT COLONEL, C. DISTRICT ENGINEER		Designed by:	
Submitted:	PDT	Plotted By:	PDT
Hydro Survey Team Leader:		Recommended:	
Chief, Hydro Survey Section		Checked By:	PDT
Approved:		Drawn by:	PDT

CALIFORNIA	
SACRAMENTO RIVER	
LOCATION:	PORT OF WEST SACRAMENTO
CONDITION SURVEY	7-9, 13-16 AND 30 APRIL 2015

Sheet Reference Number	36 of 45
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<u>LEGEND</u>			
---	Federal Navigation Channel		Cable Area
—	Federal Navigation Center Line		Placement Area
.....	Cable Submarine		Anchorage Area
- - -	Cable Overhead		Obstruction Point
—	Contour Line		Wrecks-Submerged
			Shoaling Area
			Shoalest Sounding**
			Beacon, General
			Red Navigation Buoy
			Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane
Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.

Vertical Datum:
Soundings are shown in feet and indicate depths below MLLW Datum.

The information depicted on this map represents the results of a survey conducted

The location of navigation aids are base on and provided by the U.S. Coast Guard.
2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Site gauge
Equipment statement

Equipment statement

CONTROLS:
LOCATION: B&O VISTA

OOA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)

DE GAUGE: Nail @ 8.2 ft MLLW

METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
QAA STATION: 9416131

ENCHMARK: P0WS1 (No PID)
DE GAUCHE: Neil @ 10.0 ft MLW

DE GAUGE: Nail @ 10.0 ft MLLW
ETADATA: Nail set by USACE 8 April, 2014

I horizontal positions and MLLW elevations were

post-processed using public GPS reference stations in the area.

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JOAQUIN COUNTY

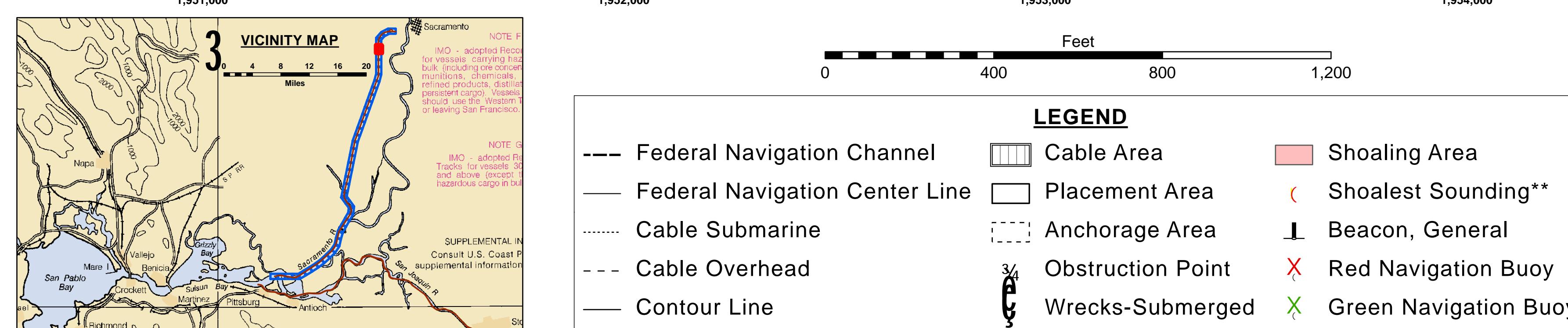
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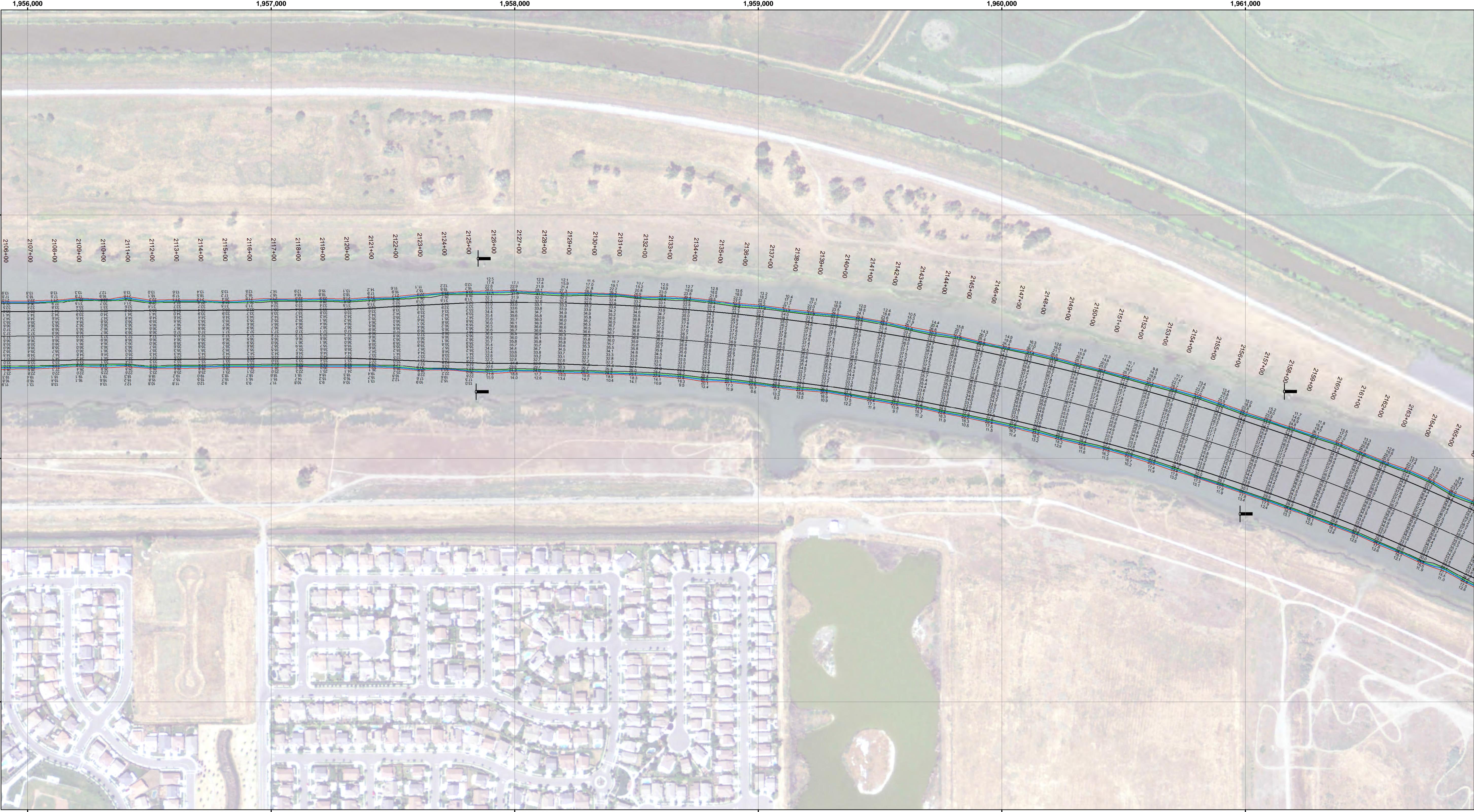
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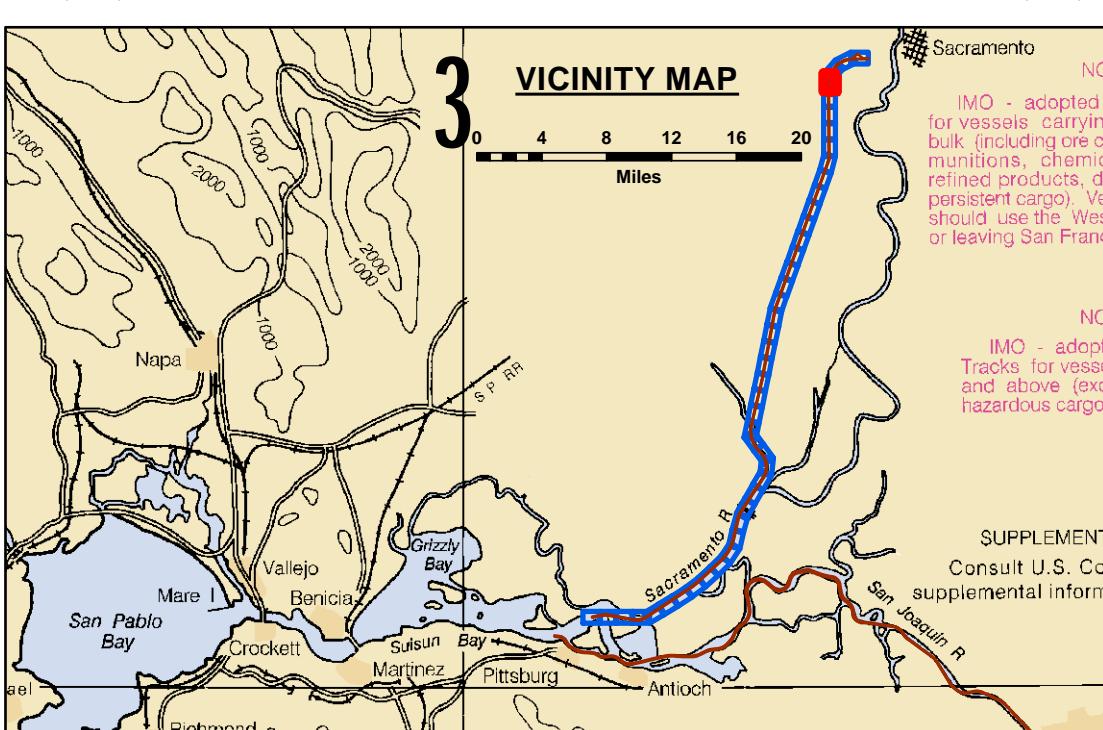
PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT COLONEL, C. DISTRICT ENGINEER	Surveyed By: Sep 04, 2015	Chart Date: Sep 04, 2015
Submitted by: Hydro Survey Team Leader	Designed by: PDT	Plotted by: PDT
Recommended by: Chief Hydro Survey Section		Drawn by: PDT
Checked by: PDT		Approved: Chief Construction Branch

CALIFORNIA	
SACRAMENTO RIVER CONDITION SURVEY 7-9, 13-16 AND 30 APRIL 2015	



US Army Corps
of Engineers
District: CESPK

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NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.
The location of navigation aids are base on and provided by the U.S. Coast Guard.

2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

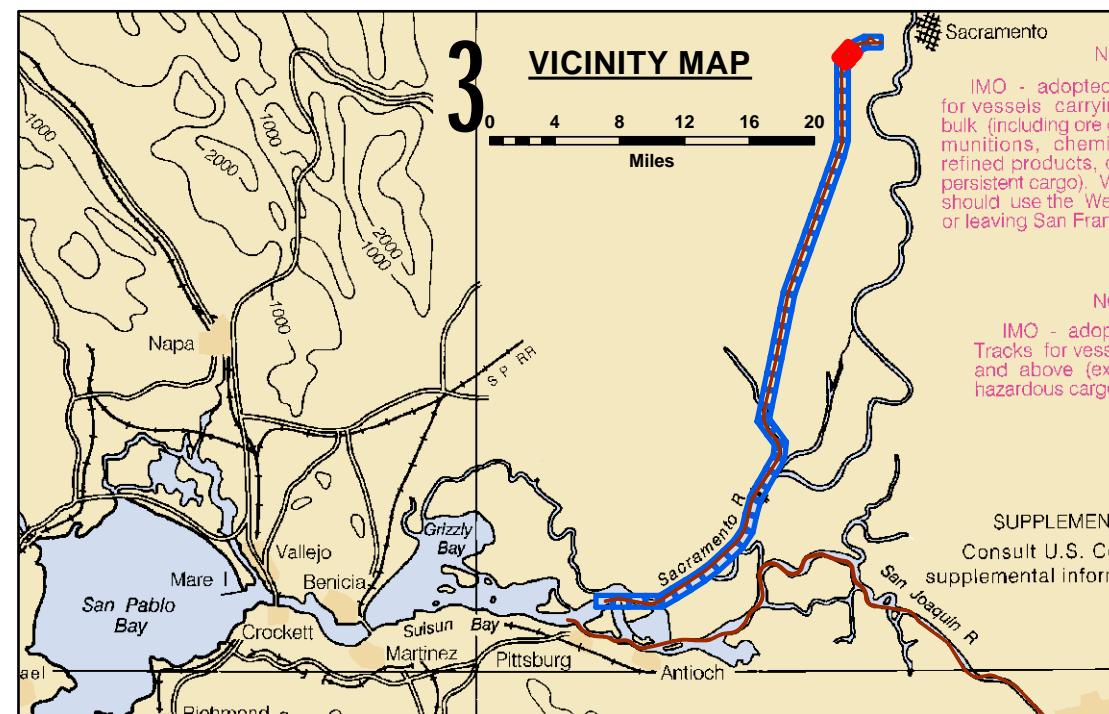
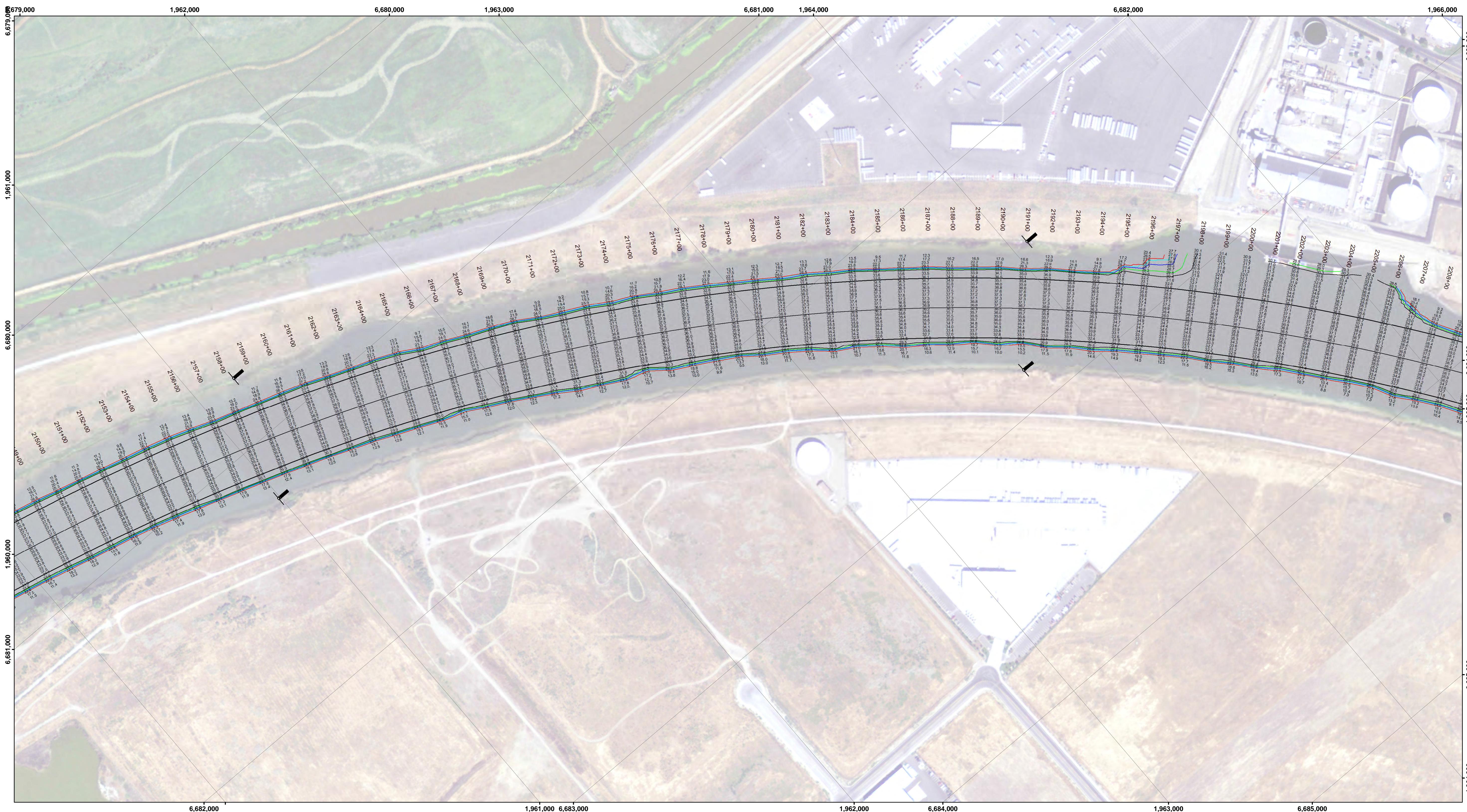
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 94161316
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015
SAN JOAQUIN COUNTY
Sheet Reference Number 42 of 45

PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT COLONEL, C.E. DISTRICT ENGINEER Submitted by:	Surveyed By: Chart Date: Sep 04, 2015
Hydro Survey Team Leader Recommended:	Plotted By: PDT
Chief Hydro Survey Section Checked By:	Drawn By: PDT
Chief Construction Branch Approved:	Plotted By: PDT

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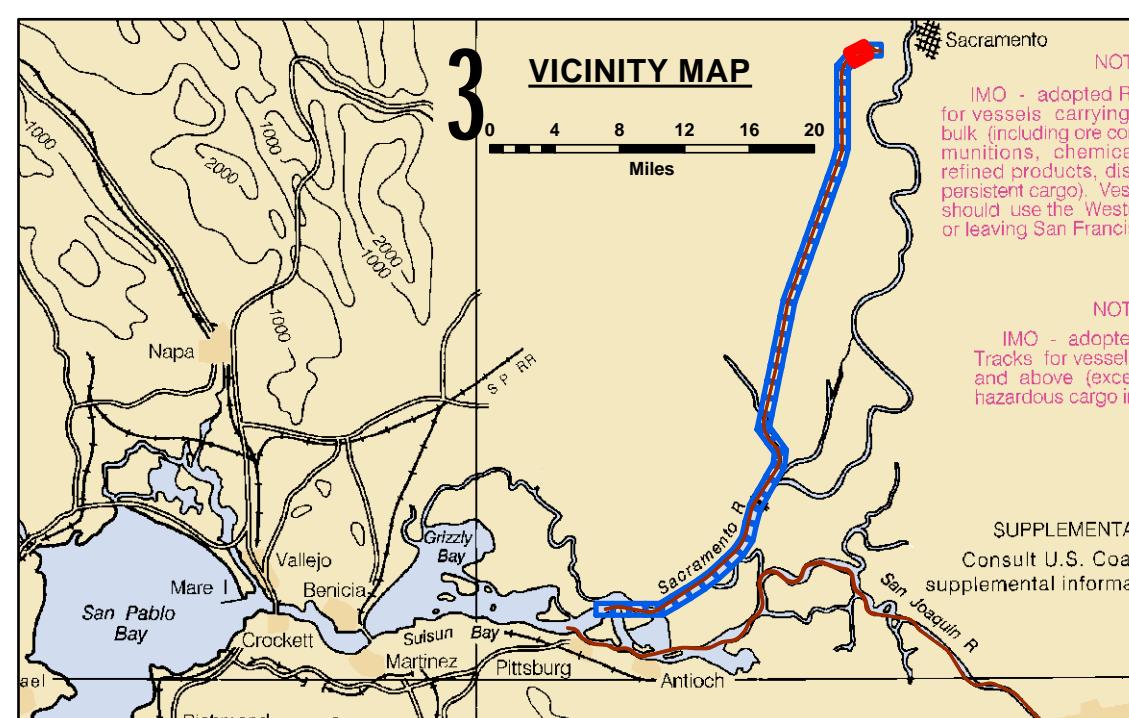
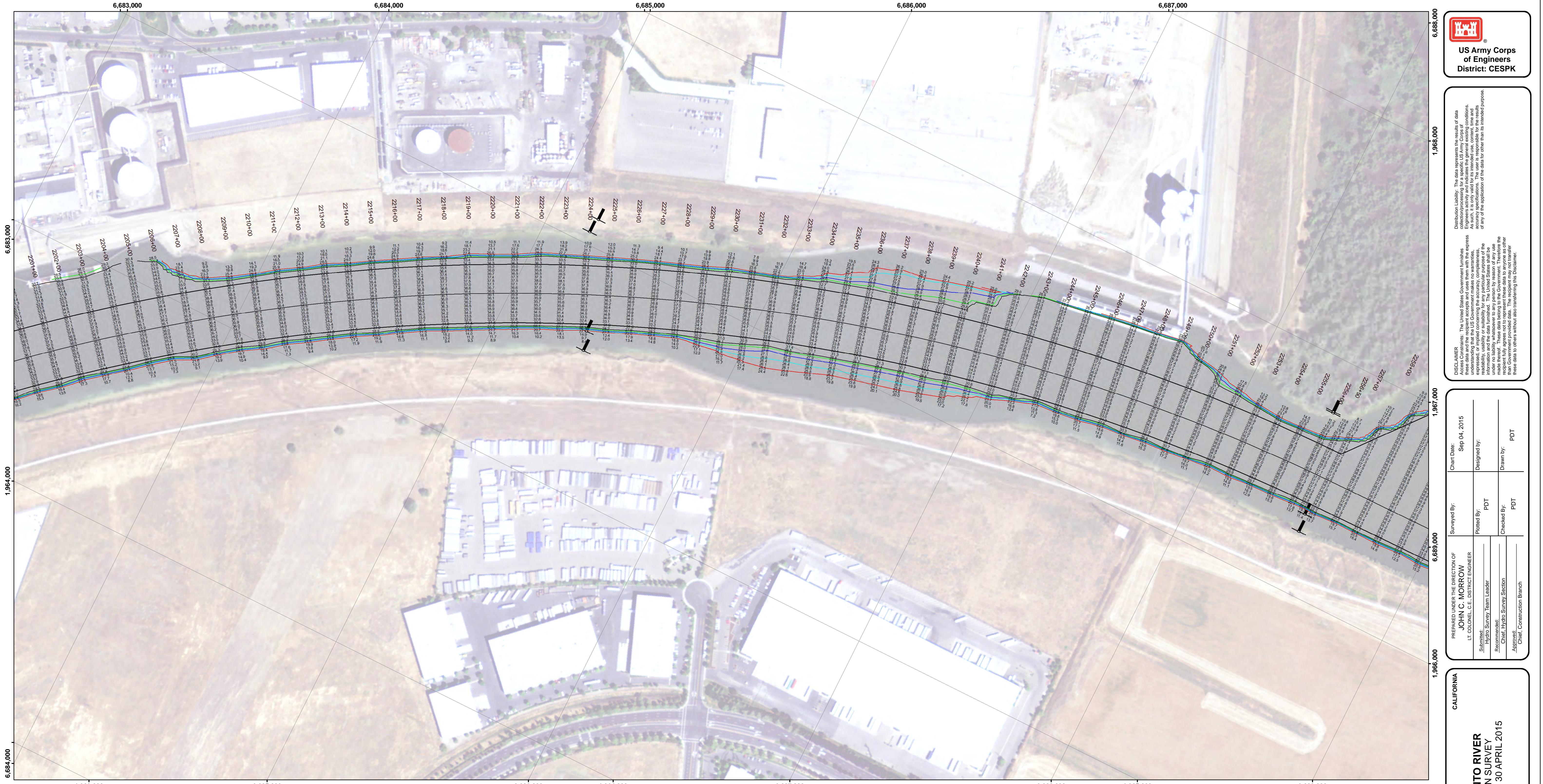
US Army Corps
of Engineers
District: CESPK

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PREPARED UNDER THE DIRECTION OF	JOHN C. MORROW	Surveyed By:	Chart Date:
LT COLONEL, C. DISTRICT ENGINEER		Designed by:	Sep 04, 2015
Submitted:	PDT	Plotted By:	PDT
Hydro Survey Team Leader:		Checked By:	PDT
Recommended:	Chief, Hydro Survey Section	Drawn By:	PDT
Approved:	Chief, Construction Branch		

CALIFORNIA	
SACRAMENTO RIVER CONDITION SURVEY 7-9, 13-16 AND 30 APRIL 2015	

Sheet
Reference
Number
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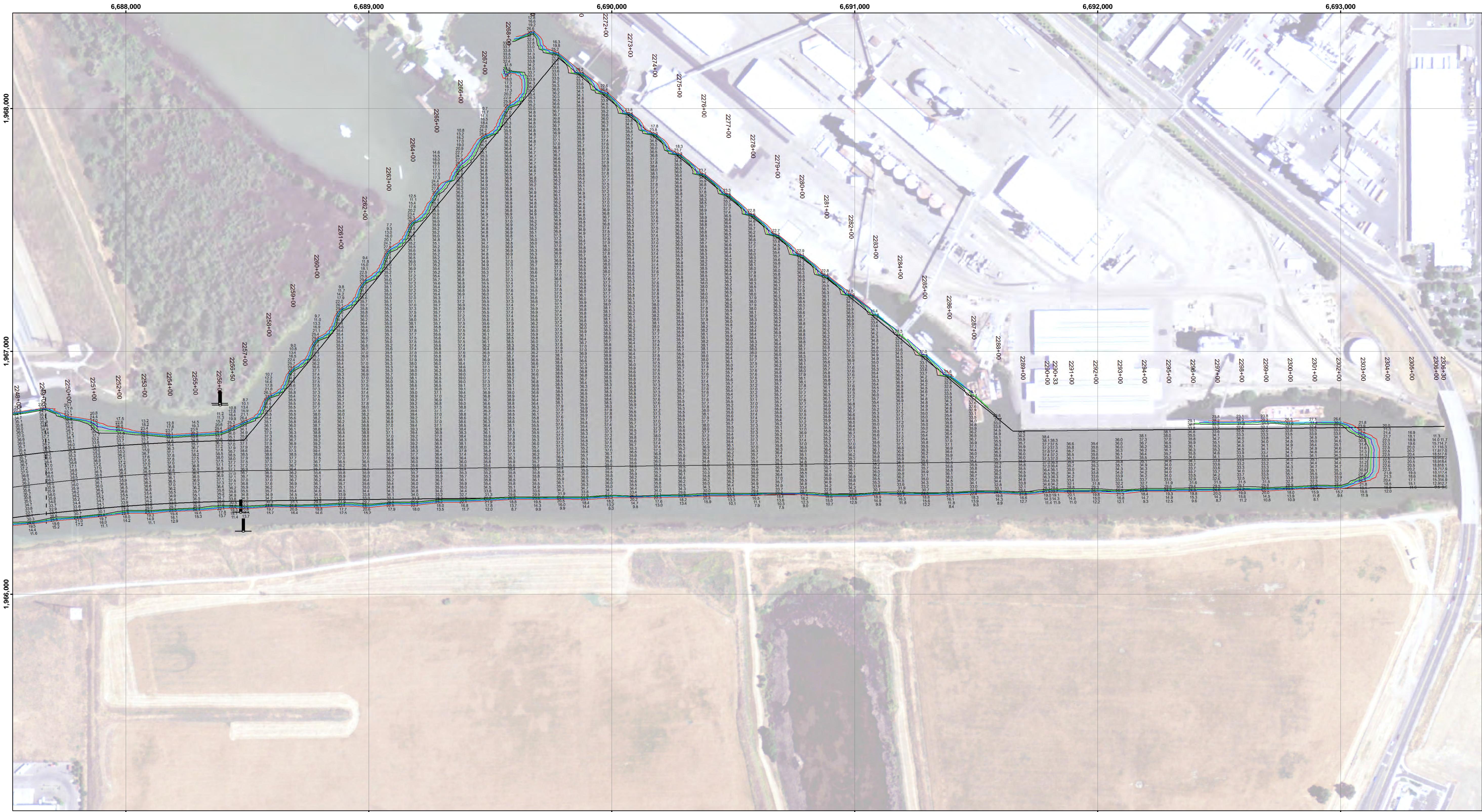
PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT COLONEL, C.E. DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Sep 04, 2015
Submitted: Hydro Survey Team Leader	Designed by: PDT	
Plotted By: PDT		
Recommended: Chief, Hydro Survey Section		
Checked By: PDT		
Approved: Chief, Construction Branch		

CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

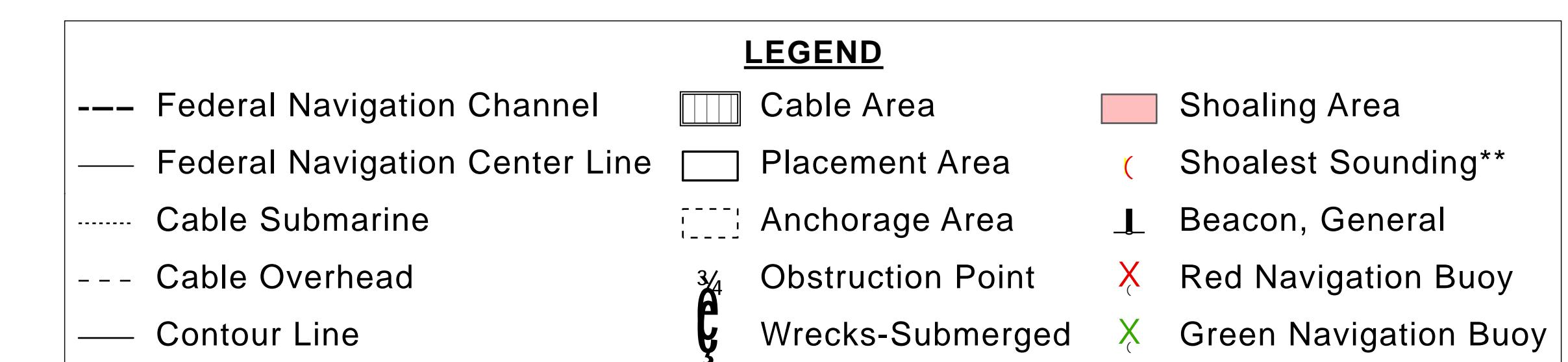
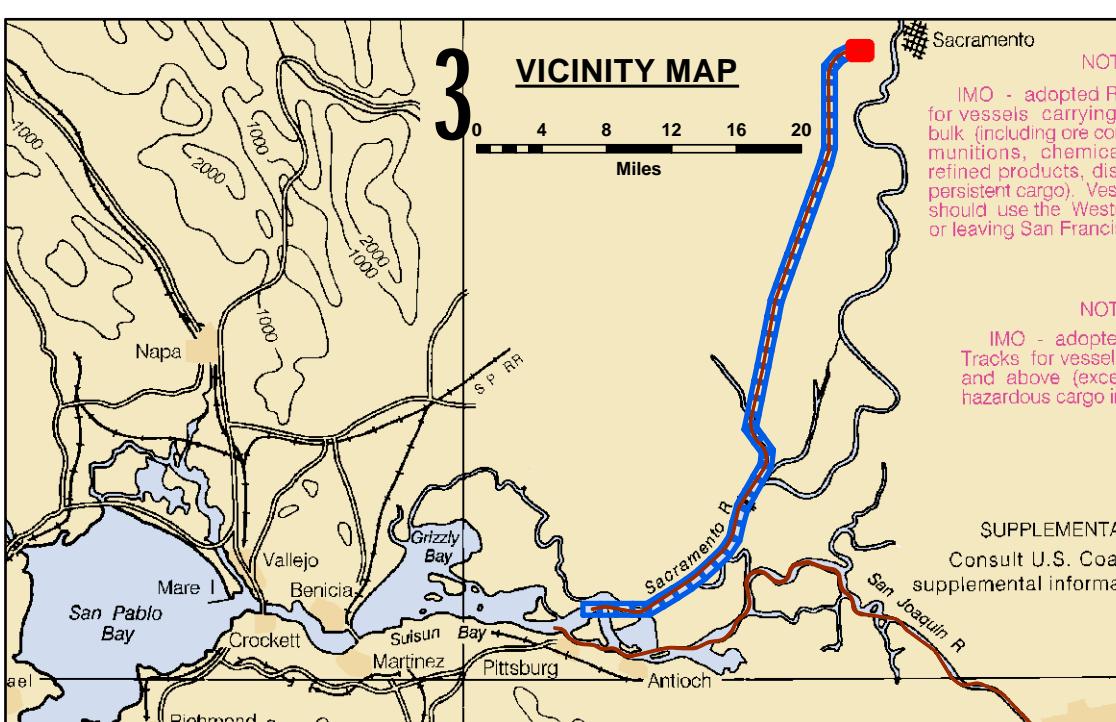
Sheet Reference Number
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US Army Corps
of Engineers
District: CESPK



CALIFORNIA
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015



NOTES:
Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), CA Zone2 (0402). Distance units in U.S. Survey Feet.
Vertical Datum: Soundings are shown in feet and indicate depths below MLLW Datum.
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2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.
Reference is N.O.A.A. Navigation Chart No. 18521.

Project Information:
Drawing not to be used for navigation.
Project Depth -30'
Tide gauge
Equipment statement
CONTROLS:
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 31 March, 2014
LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 8.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014
All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.

SAN JOAQUIN COUNTY
SACRAMENTO RIVER
CONDITION SURVEY
7-9, 13-16 AND 30 APRIL 2015

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