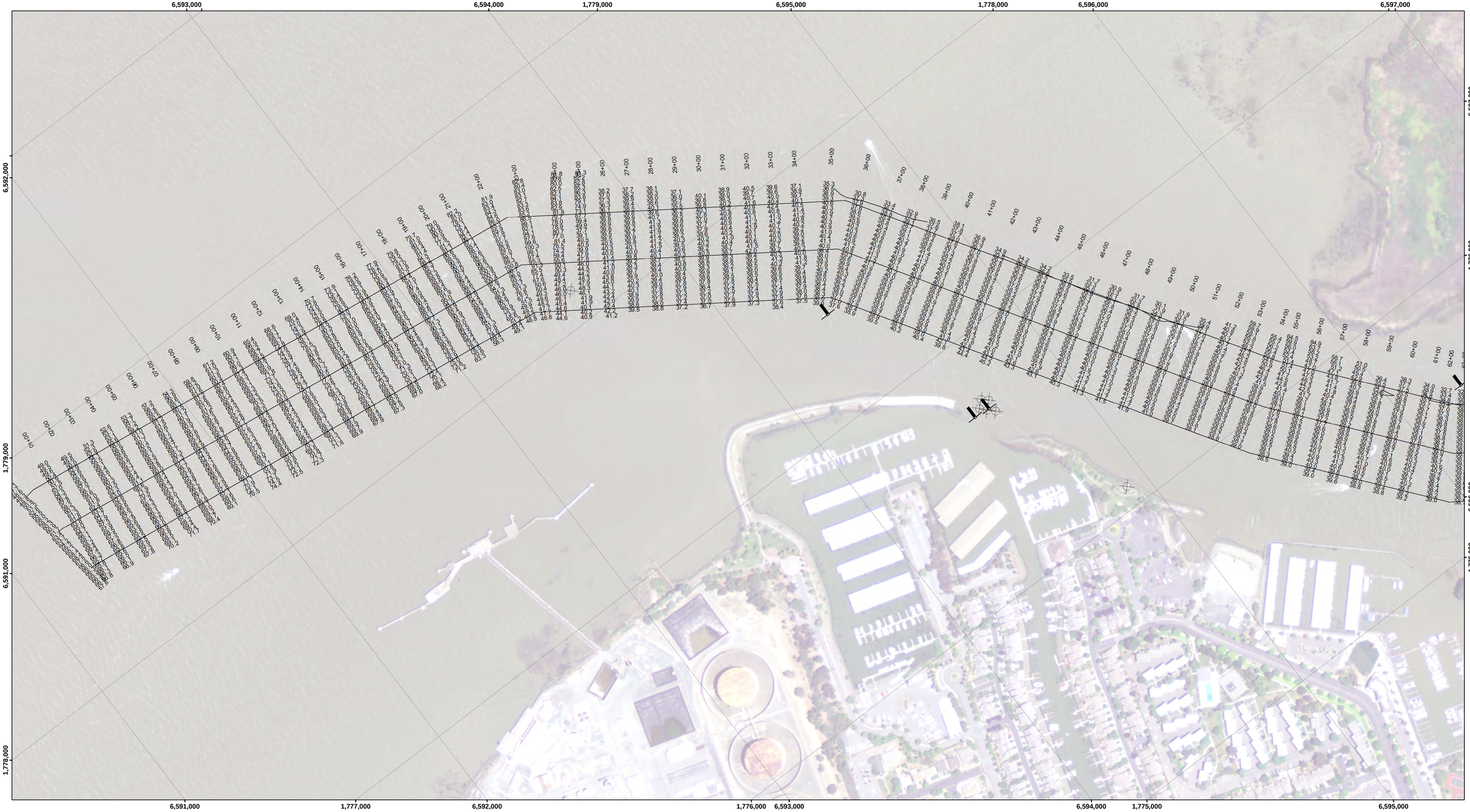

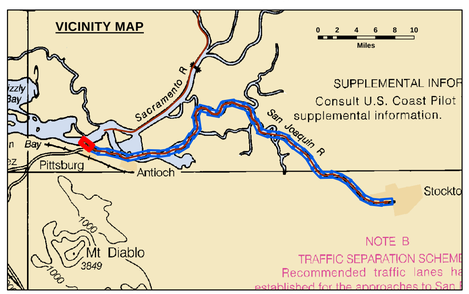

Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	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.

River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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.

US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

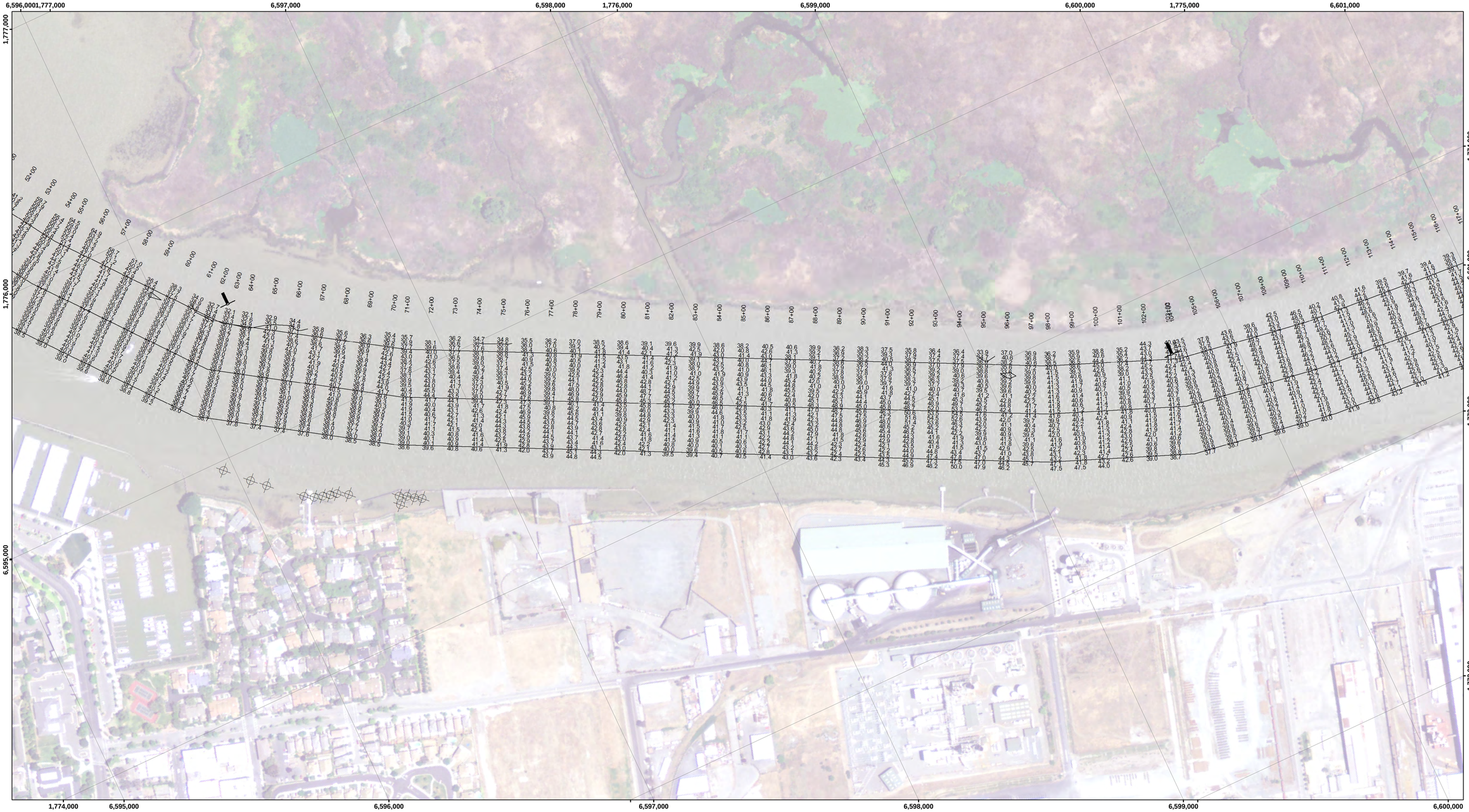
Submitted: Hydro Survey Team Leader	Surveyed By:	Chart Date: Jun 08, 2015
Recommended: Chief, Hydro Survey Section	Plotted By: PDT	Designed by:
Approved: Chief, Construction Branch	Checked By: PDT	Drawn by: PDT

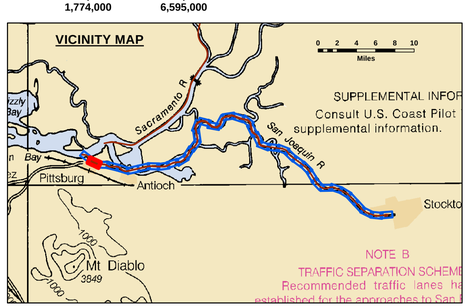
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
1 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

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** Shoalest Sounding per Quarter per Reach.

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Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)
TIDE GAUGE: Nail @ 8.2 ft MLLW
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LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF:
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

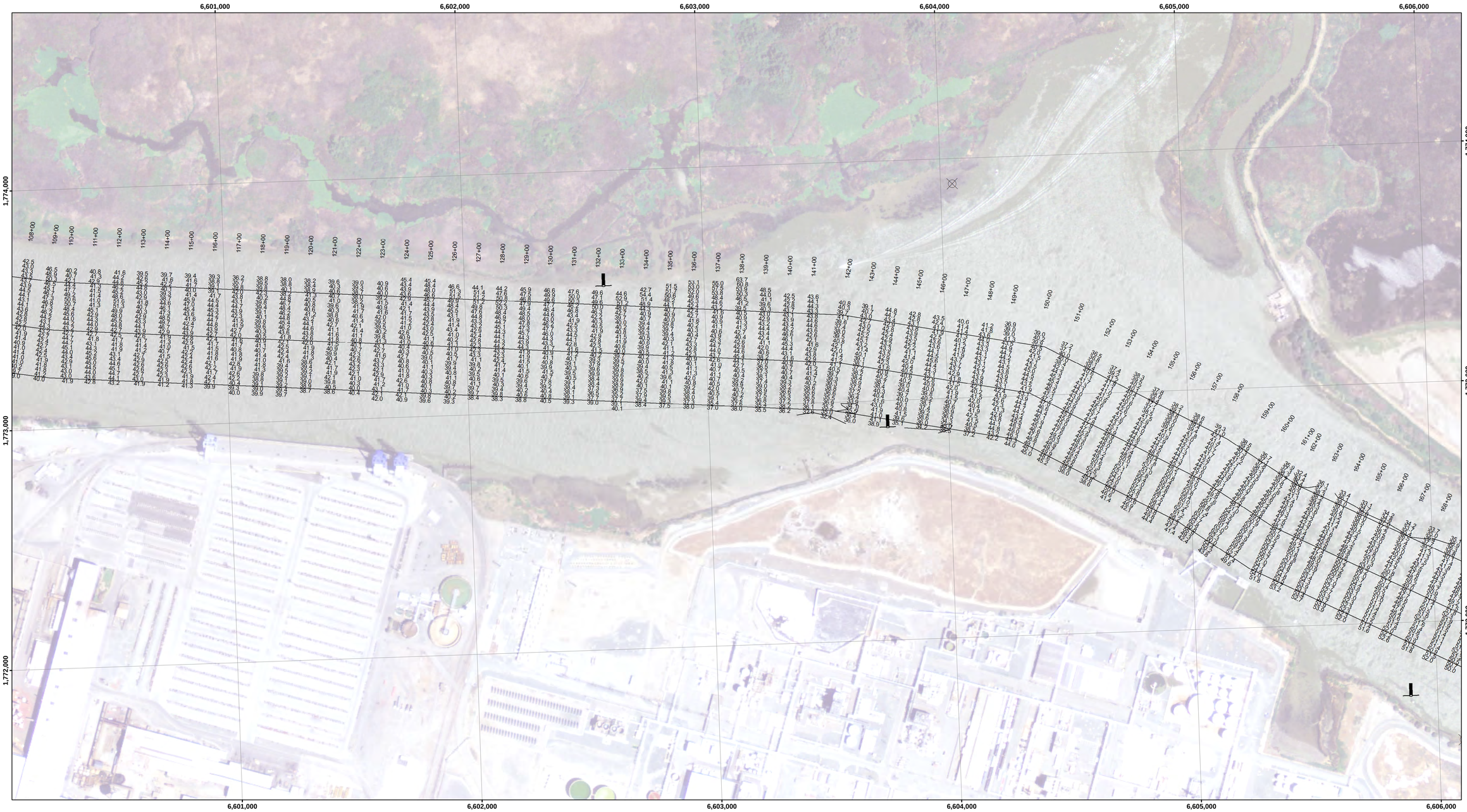
Approved
Chief, Construction Branch

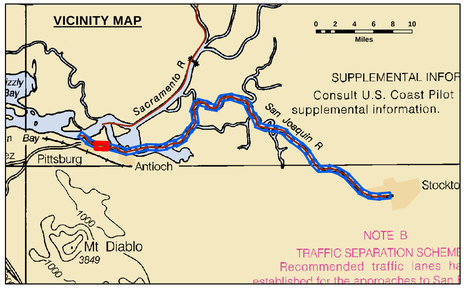
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
2 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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** Shoalest Sounding per Quarter per Reach.

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Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

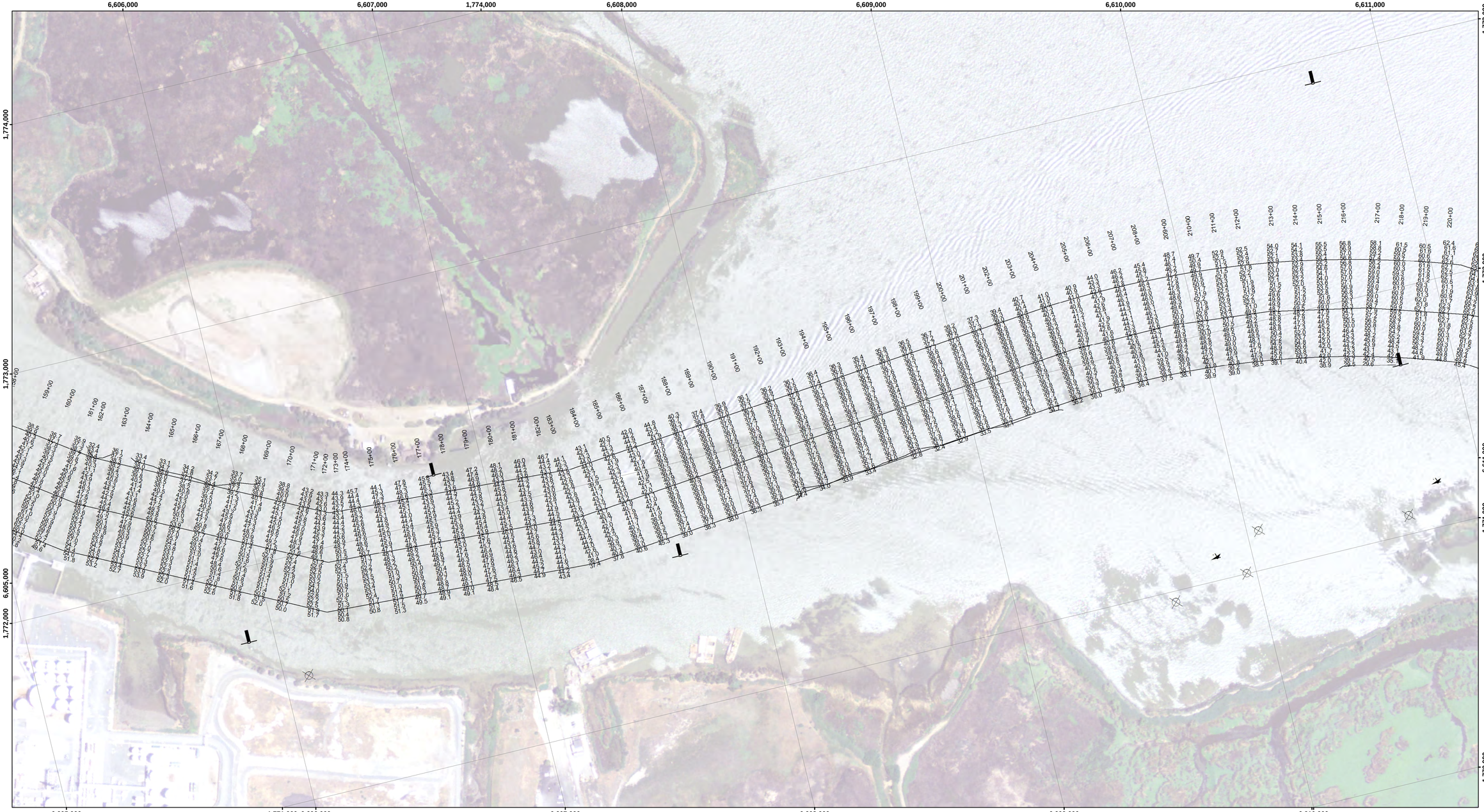
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

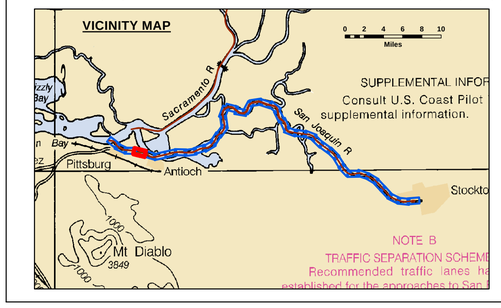
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
3 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

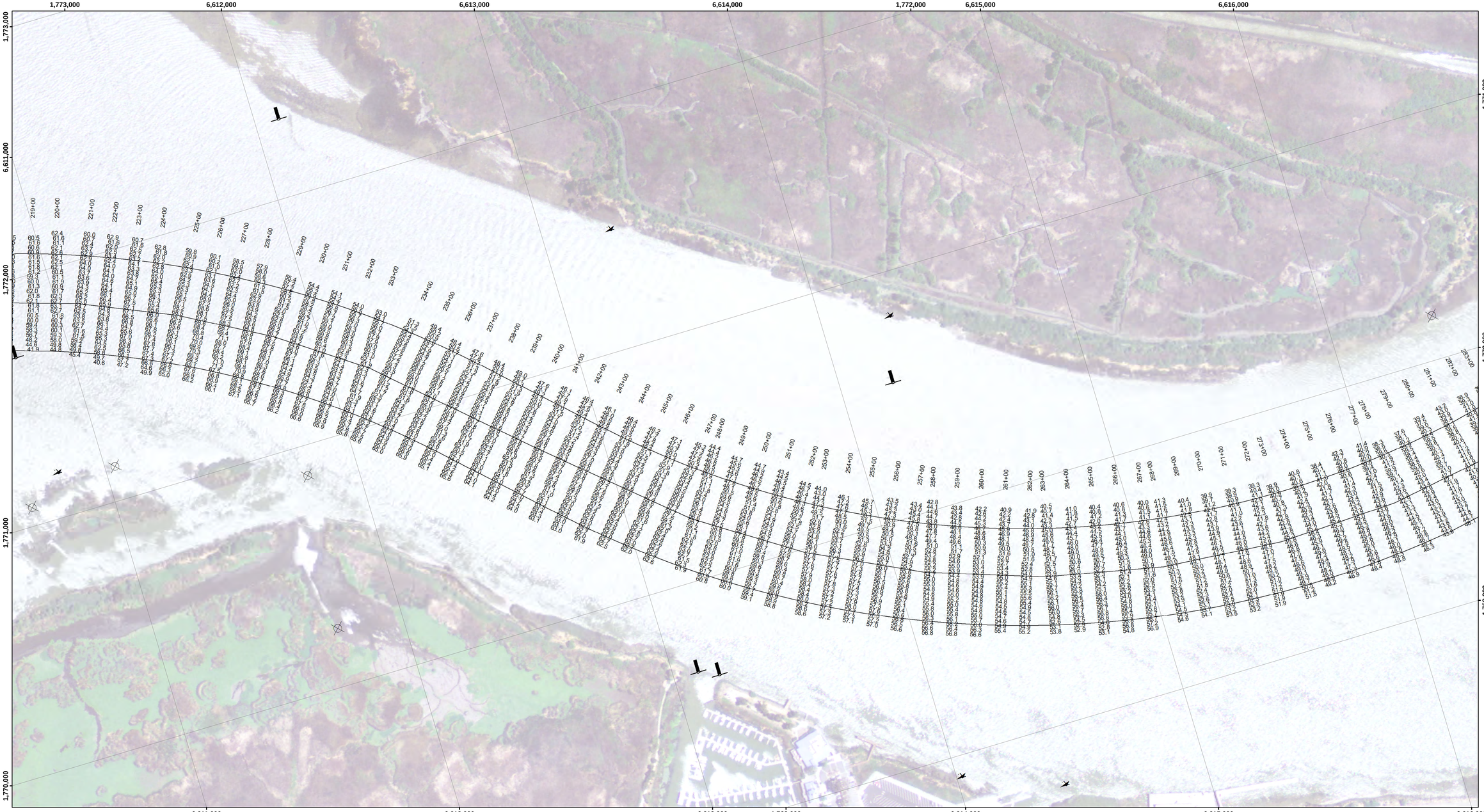
Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

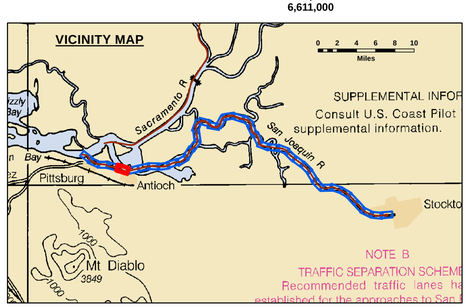
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
4 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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Vertical Datum:
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** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

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LOCATION: RIO VISTA
NOOA STATION: 9415316
BENCHMARK: 5316 B 1996 (No PID)
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METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOOA STATION: 9416131
BENCHMARK: POWS1 (No PID)
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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

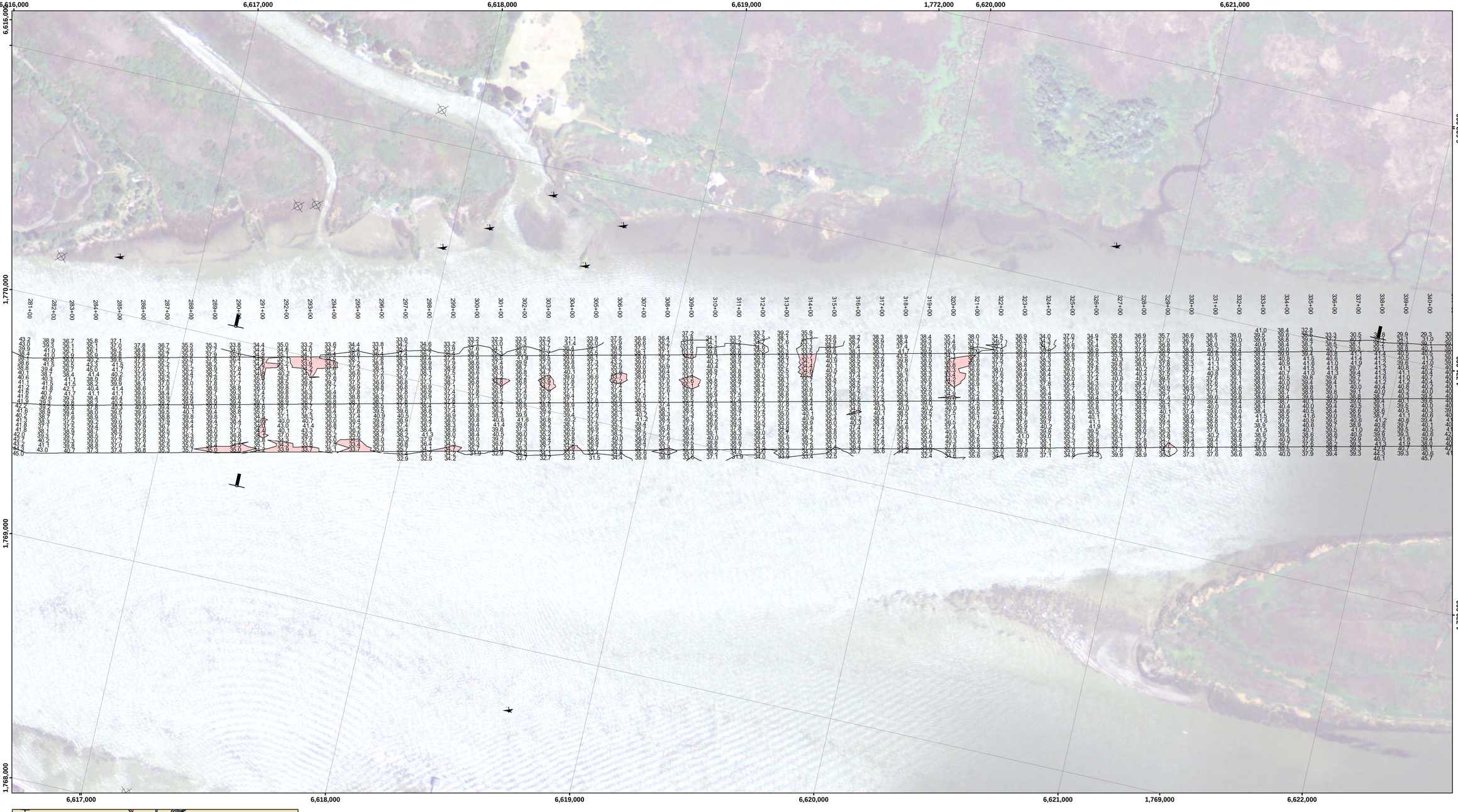
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

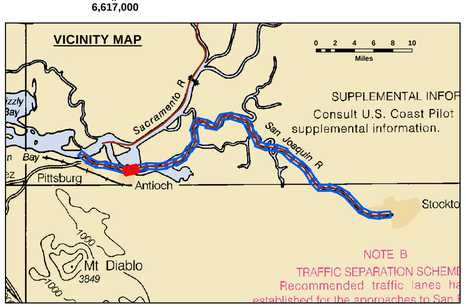
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
5 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	Green Navigation Buoy

NOTES:

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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
6 of 39

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1,772,000

1,771,000

1,770,000

1,773,000 6,628,000

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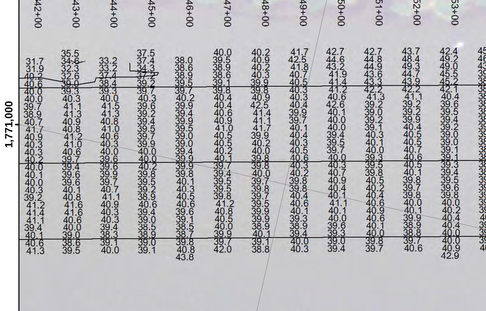

Feet

0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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US Army Corps of Engineers District: CESPN

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Chart Date: Jun 08, 2015			
Surveyed By:	Plotted By: PDT	Designed by: PDT	Drawn by: PDT
PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT. COLONEL, CE., DISTRICT ENGINEER	Submitted Hydro Survey Team Leader	Recommended Chief, Hydro Survey Section	Checked By: PDT
		Approved: Chief, Construction Branch	

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
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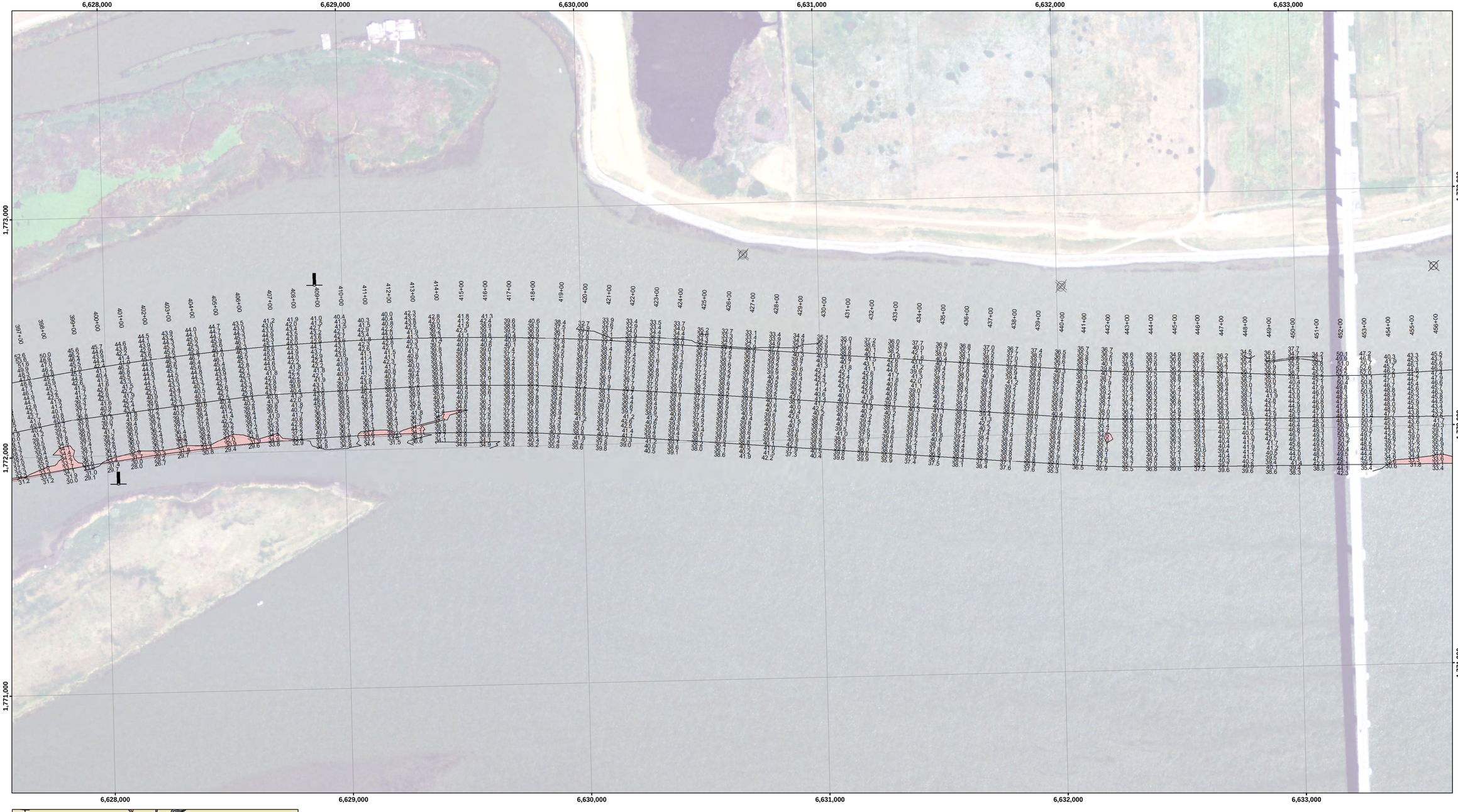

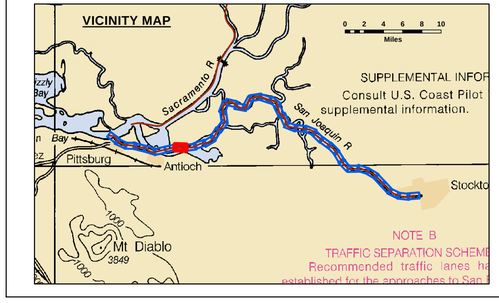

Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: 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.

US Army Corps of Engineers
District: CESPN

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Chart Date: Jun 08, 2015	Surveyed By:		
Designed by:	Plotted By: PDT	Drawn by:	PDT
Submitted: Hydro Survey Team Leader			
Recommended: Chief, Hydro Survey Section		Checked By:	PDT
Approved: Chief, Construction Branch			

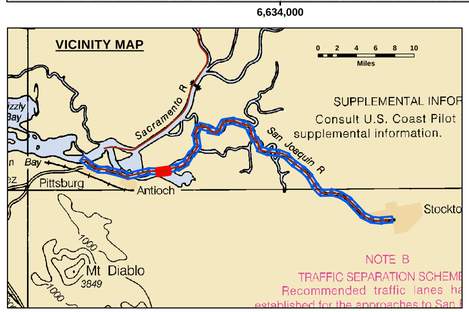
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, CE, DISTRICT ENGINEER

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
8 of 39



Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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:
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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

Approved
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

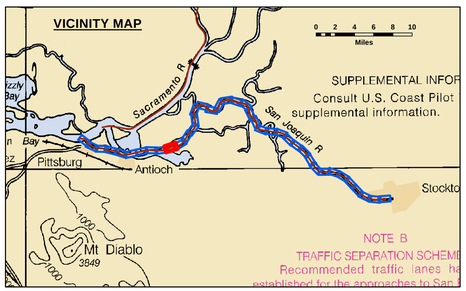
Sheet Reference Number
9 of 39

6,638,000 6,639,000 1,775,000 6,640,000 6,641,000 6,642,000 1,776,000 6,643,000

1,776,000 1,775,000 6,644,000 1,774,000 1,773,000 1,772,000 6,638,000

6,639,000 6,640,000 6,641,000 1,772,000 6,642,000 6,643,000 6,644,000 1,773,000

VICINITY MAP



Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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Vertical Datum:
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2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.

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** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: 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.

US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Surveyed By:	Chart Date:	Jun 08, 2015
Plotted By: PDT	Designed by:	
Checked By: PDT	Drawn by:	PDT

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

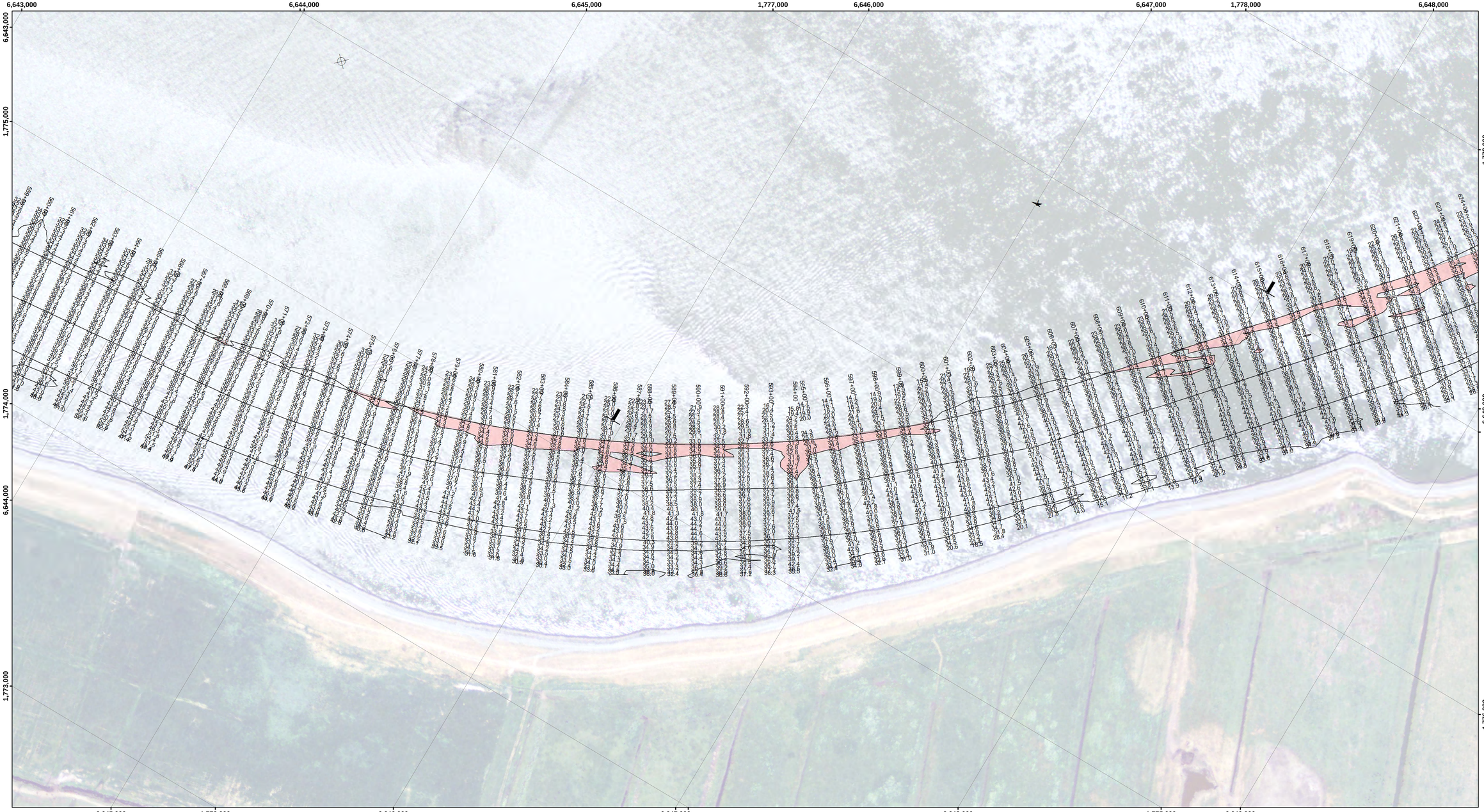
Approved
Chief, Construction Branch

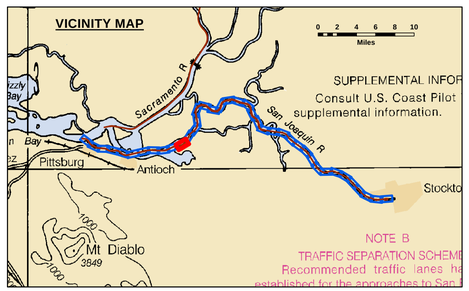
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
10 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	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.

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

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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.

US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

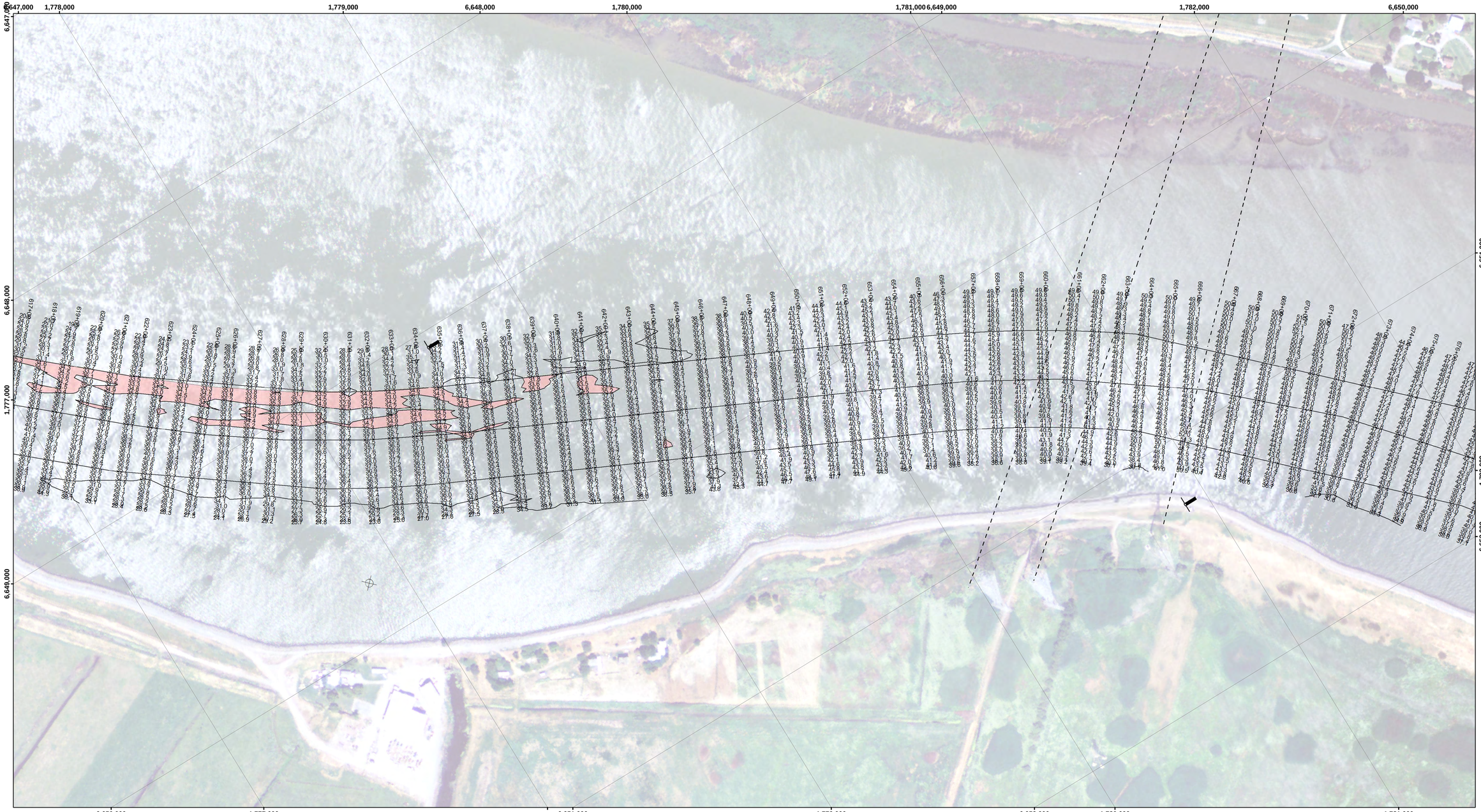
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

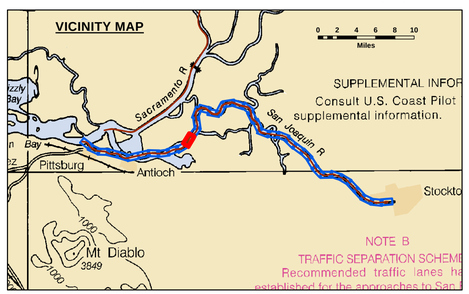
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
11 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

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** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
METADATA: Nail set by USACE 8 April, 2014

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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

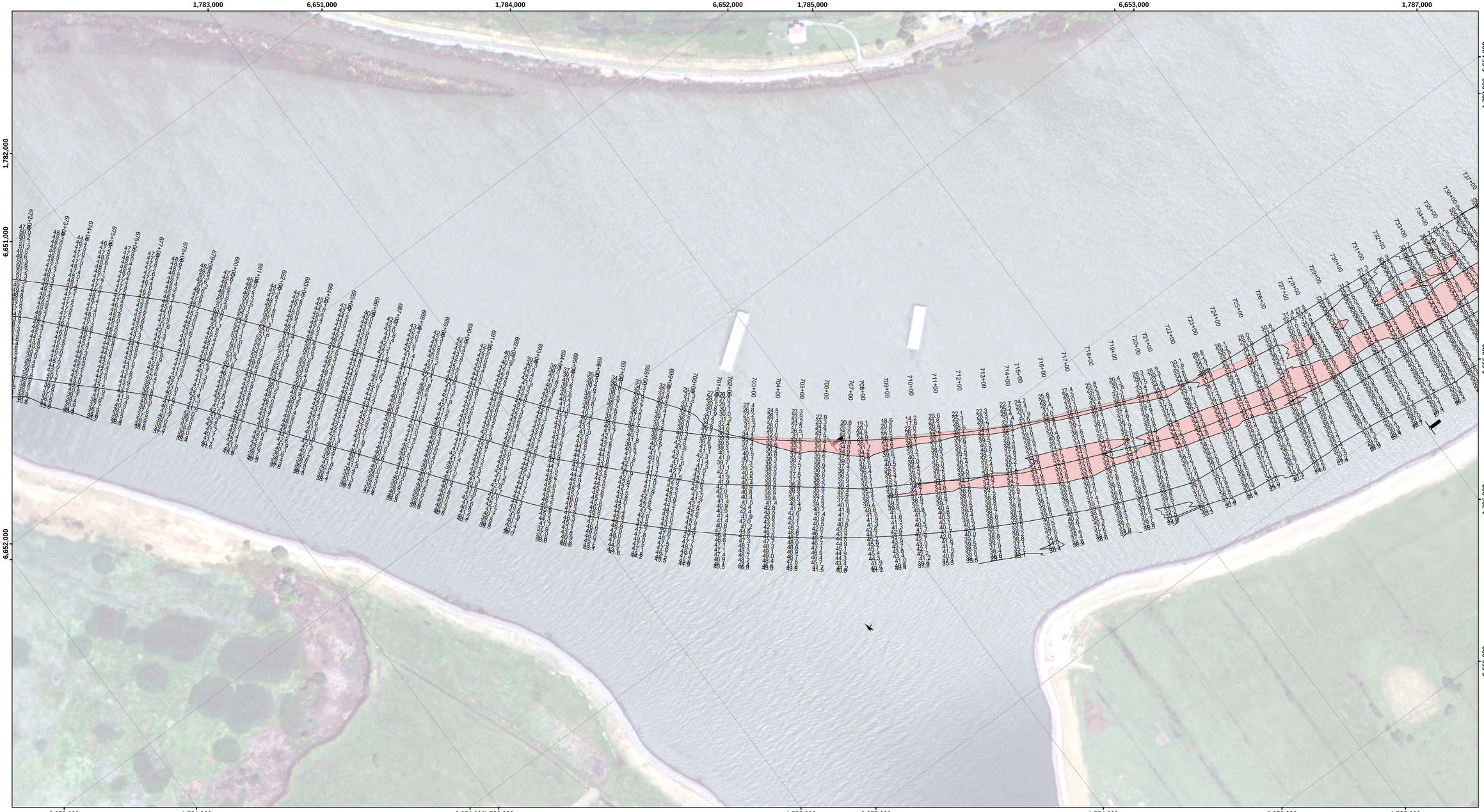
Submitted: Hydro Survey Team Leader	
Recommended: Chief, Hydro Survey Section	
Approved: Chief, Construction Branch	

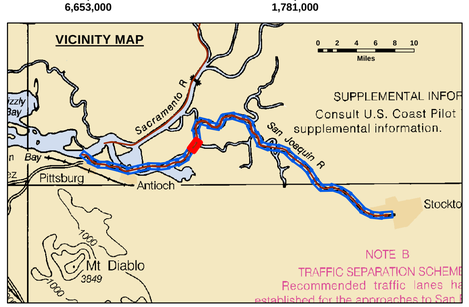
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
12 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
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- Shoalest Sounding**
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NOTES:

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** Shoalest Sounding per Quarter per Reach.

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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date: Jun 08, 2015
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

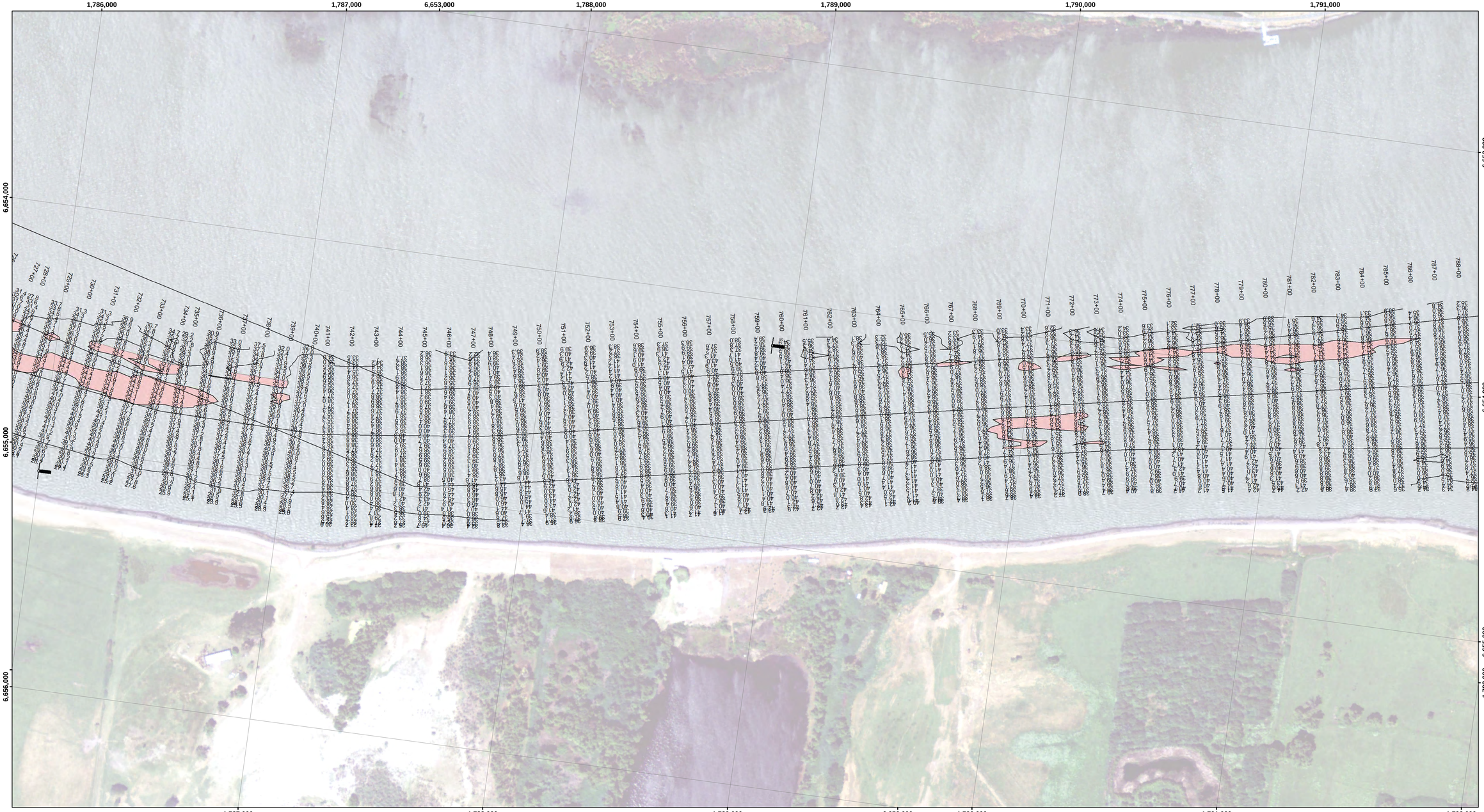
Submitted: Hydro Survey Team Leader	
Recommended: Chief, Hydro Survey Section	
Approved: Chief, Construction Branch	

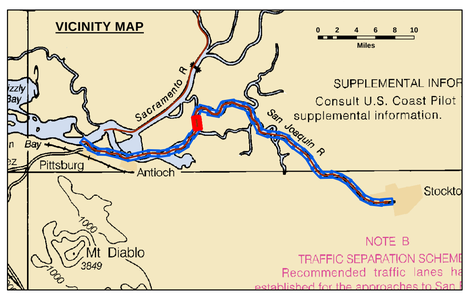
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
13 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
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- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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Tide gage
Equipment statement

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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date: Jun 08, 2015
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, CE, DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

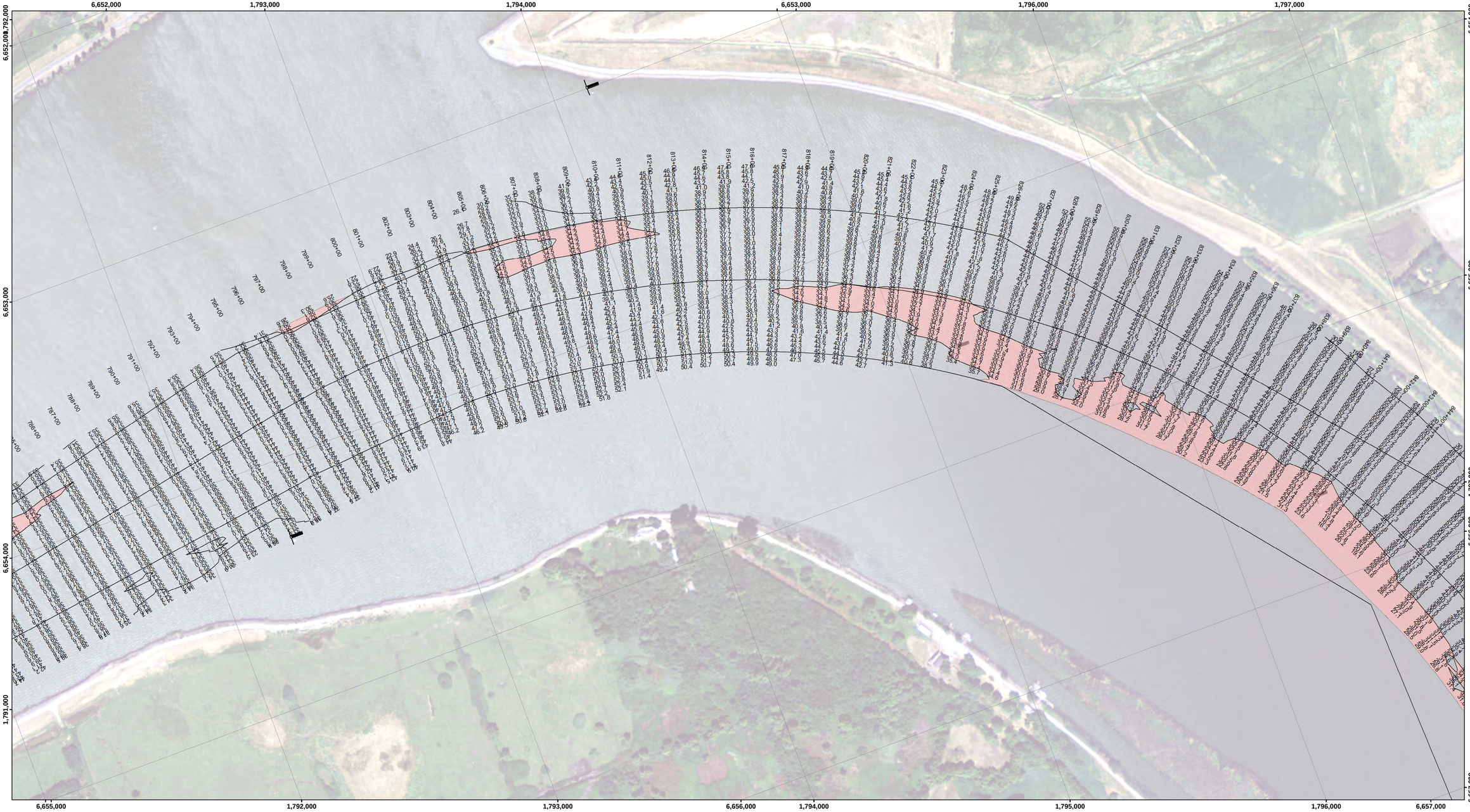
Approved
Chief, Construction Branch

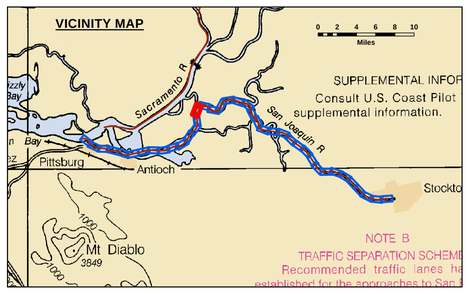
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
14 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: 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.

US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

Approved
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
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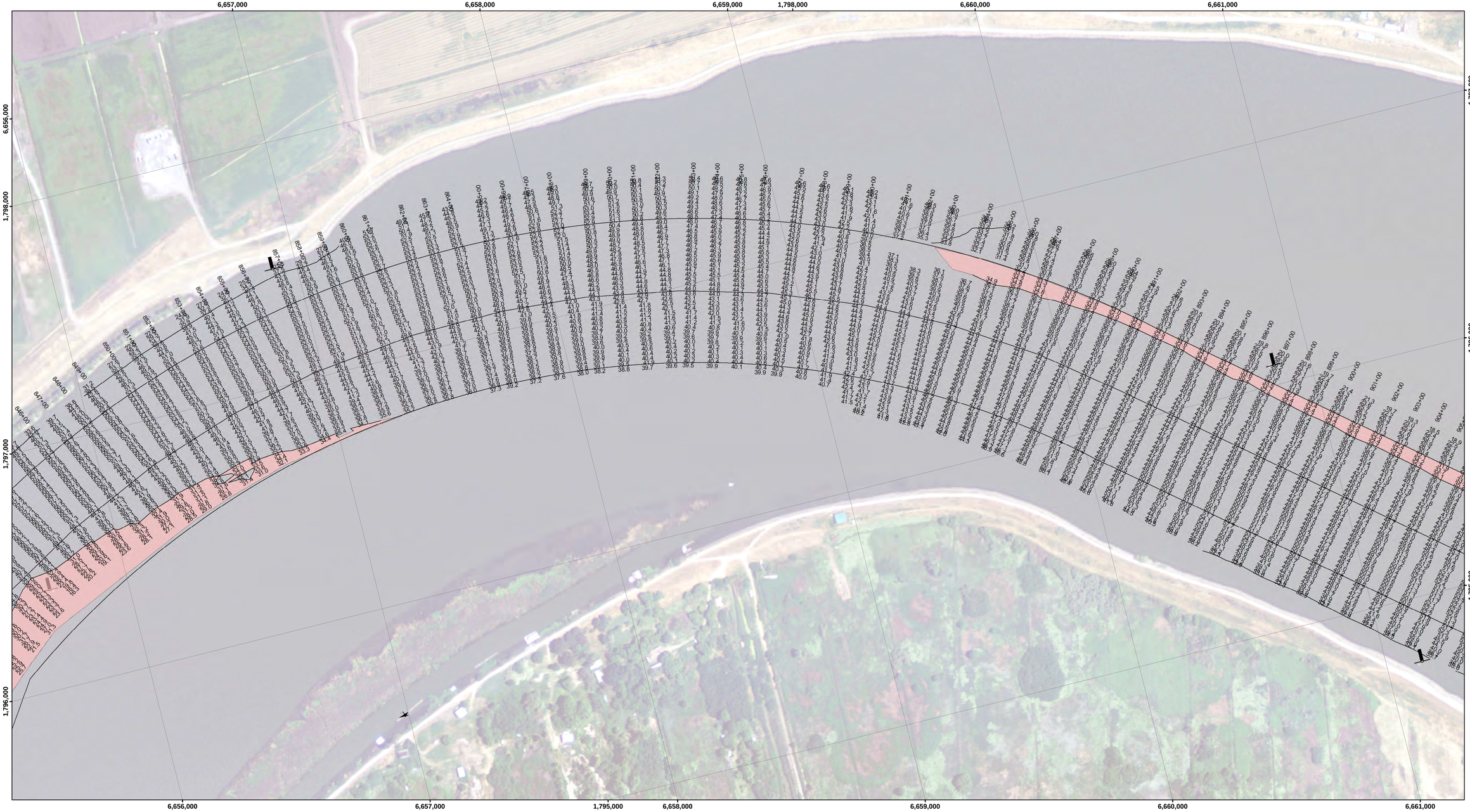

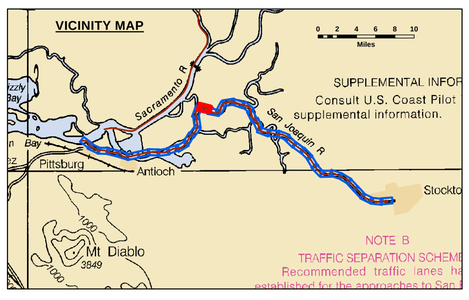

Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
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Chart Date: Jun 08, 2015	Surveyed By:		
	Designed by:	Plotted By: PDT	Checked By: PDT
Drawn by: PDT			

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

Approved
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

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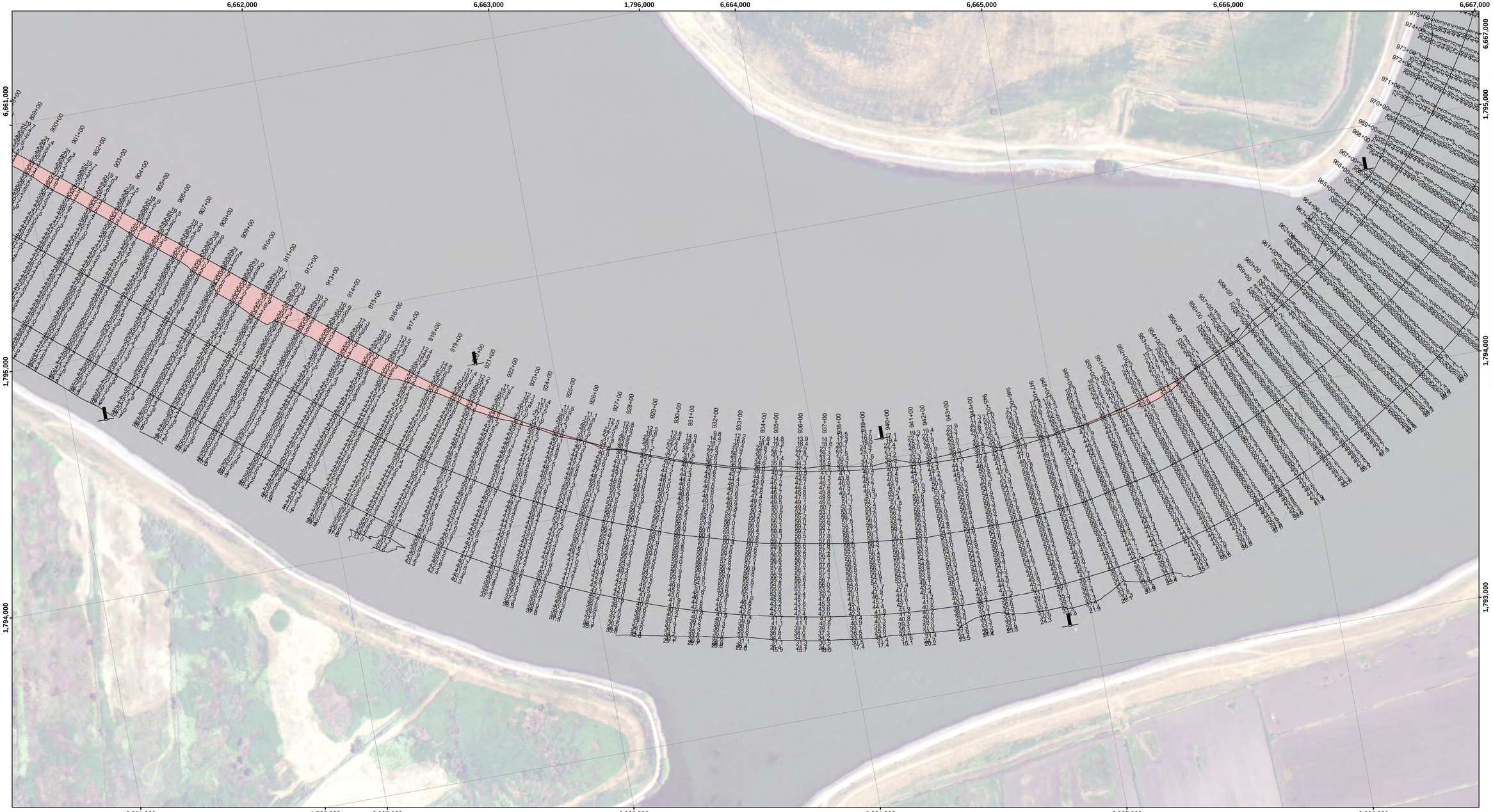

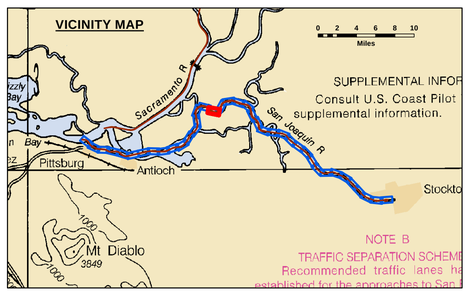

Feet
0 400 800 1,200

LEGEND

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- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

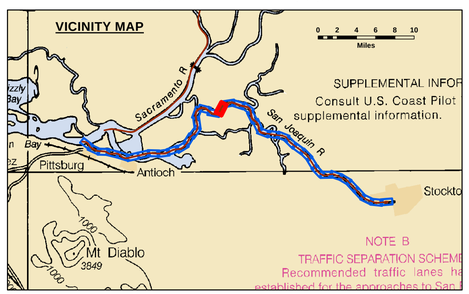
Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Submitted: Hydro Survey Team Leader			
Recommended: Chief, Hydro Survey Section	Checked By:	Drawn by:	PDT
Approved: Chief, Construction Branch			

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
17 of 39



Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	Green Navigation Buoy

NOTES:

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Tide gage
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NOOA STATION: 9415316
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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

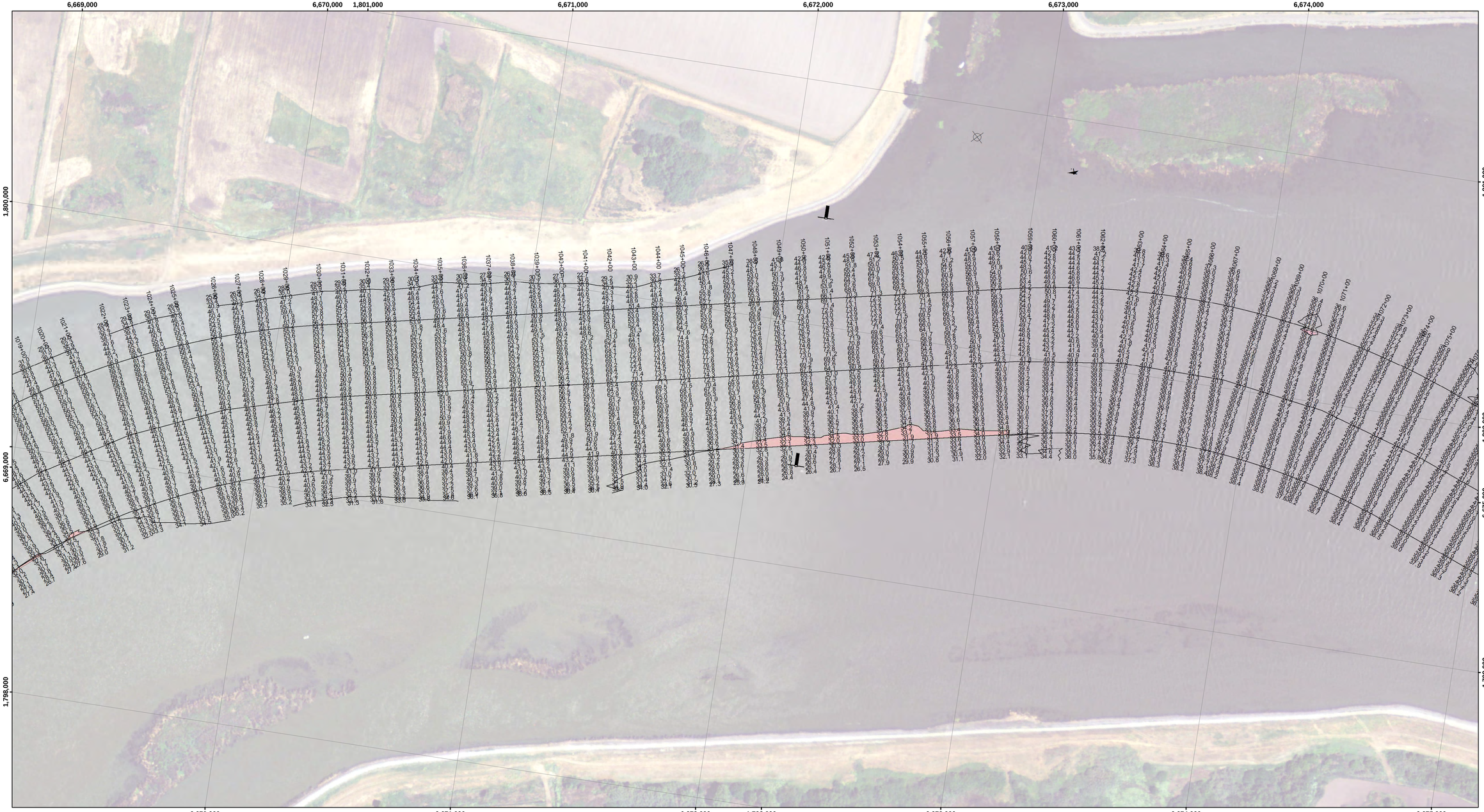
Surveyed By:	Chart Date: Jun 08, 2015
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

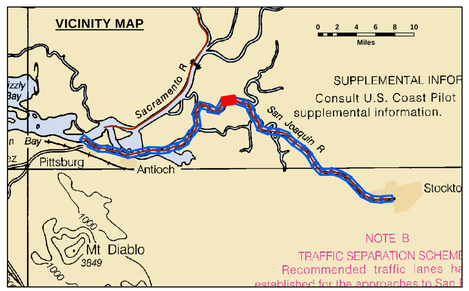
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
18 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
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- Wrecks-Submerged
- Shoaling Area
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- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

Approved
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
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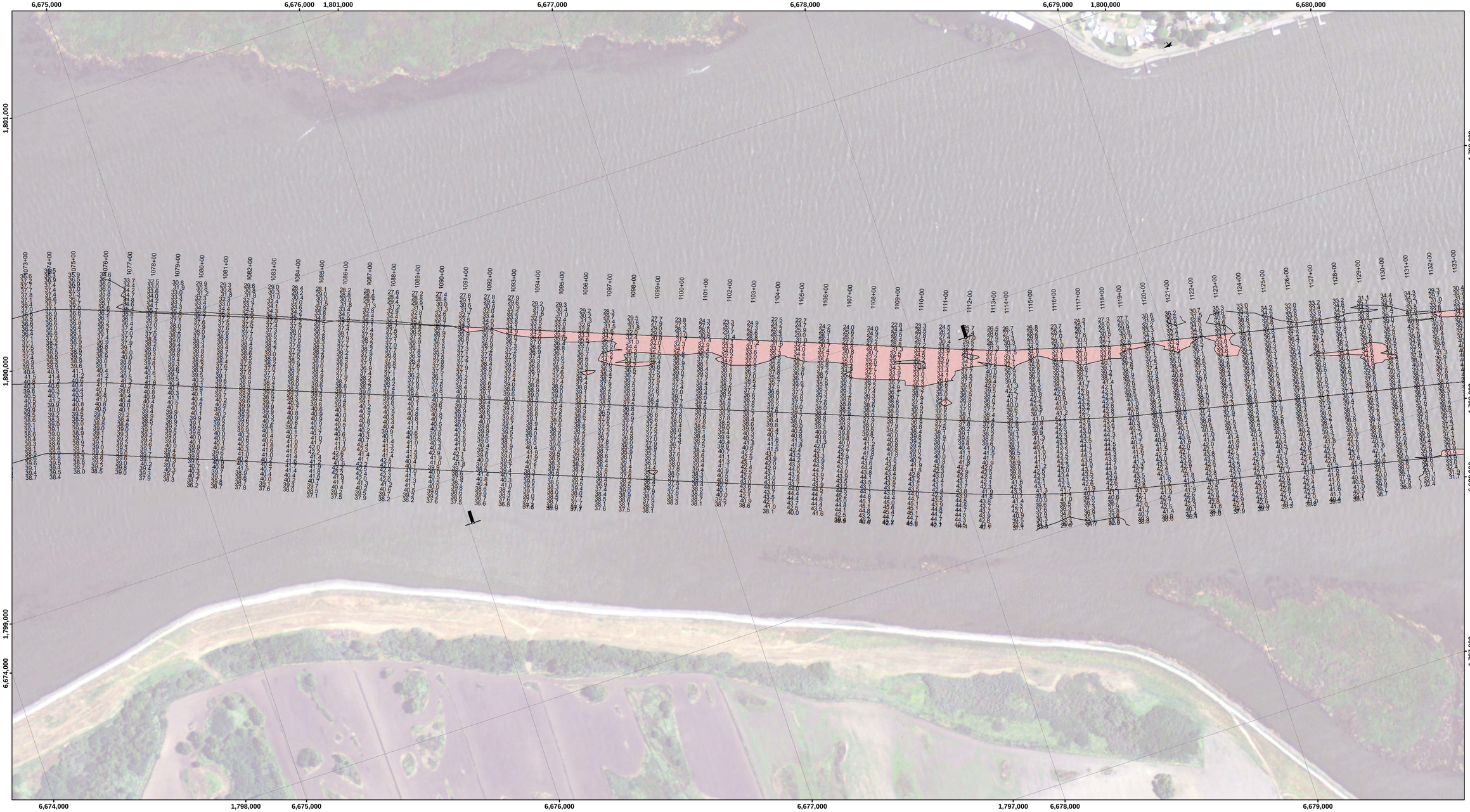

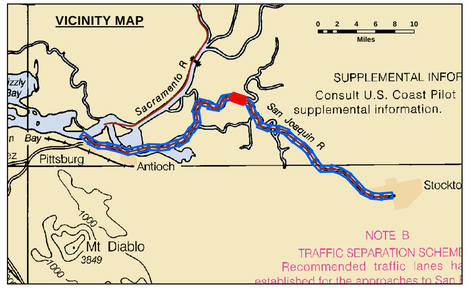

Feet
0 400 800 1,200

LEGEND

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- Federal Navigation Center Line
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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date: Jun 08, 2015		
Plotted By: PDT	Designed by:	Drawn by: PDT	
Checked By: PDT			

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

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20 APRIL - 06 MAY 2015
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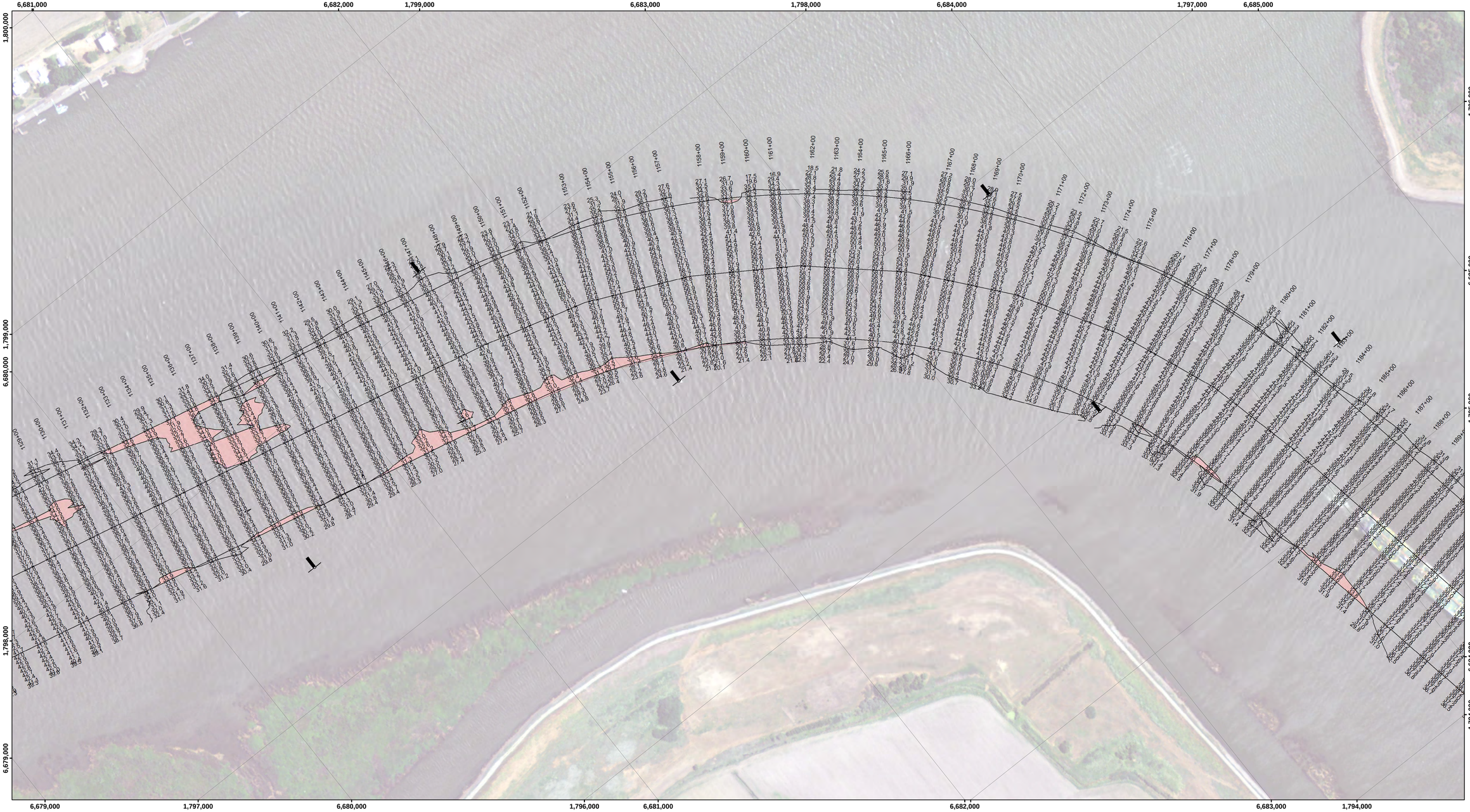

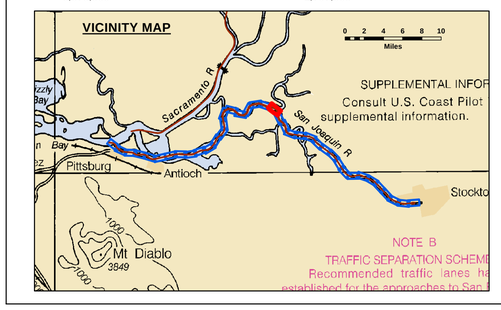

Feet
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LEGEND

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Chart Date: Jun 08, 2015	Surveyed By:		
Designed by:	Plotted By: PDT	Checked By: PDT	
Drawn by: PDT			

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

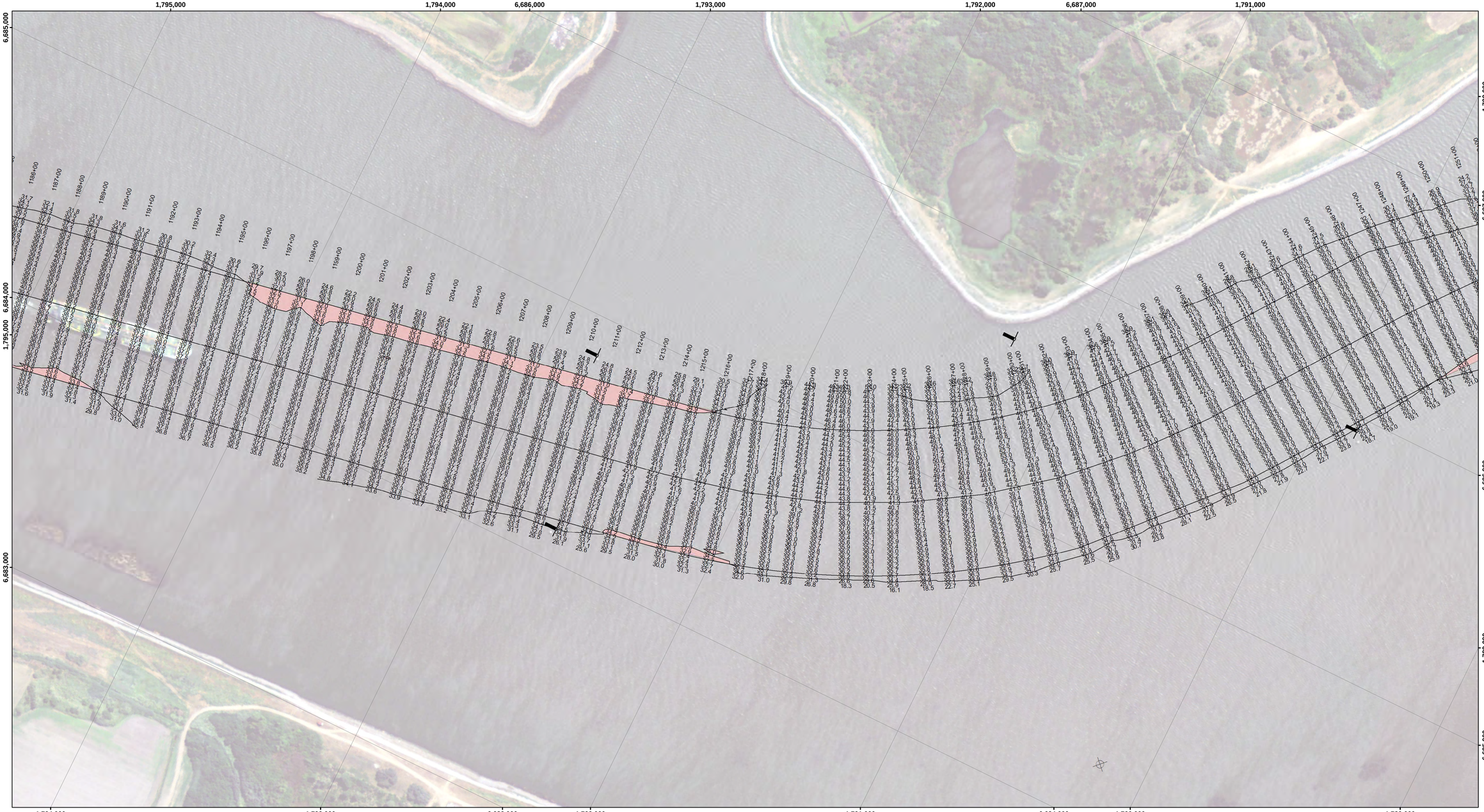
Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

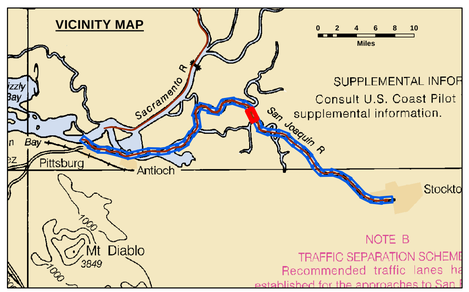
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
21 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: 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.

US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date: Jun 08, 2015	
Plotted By: PDT	Designed by:	
Checked By: PDT	Drawn by: PDT	

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

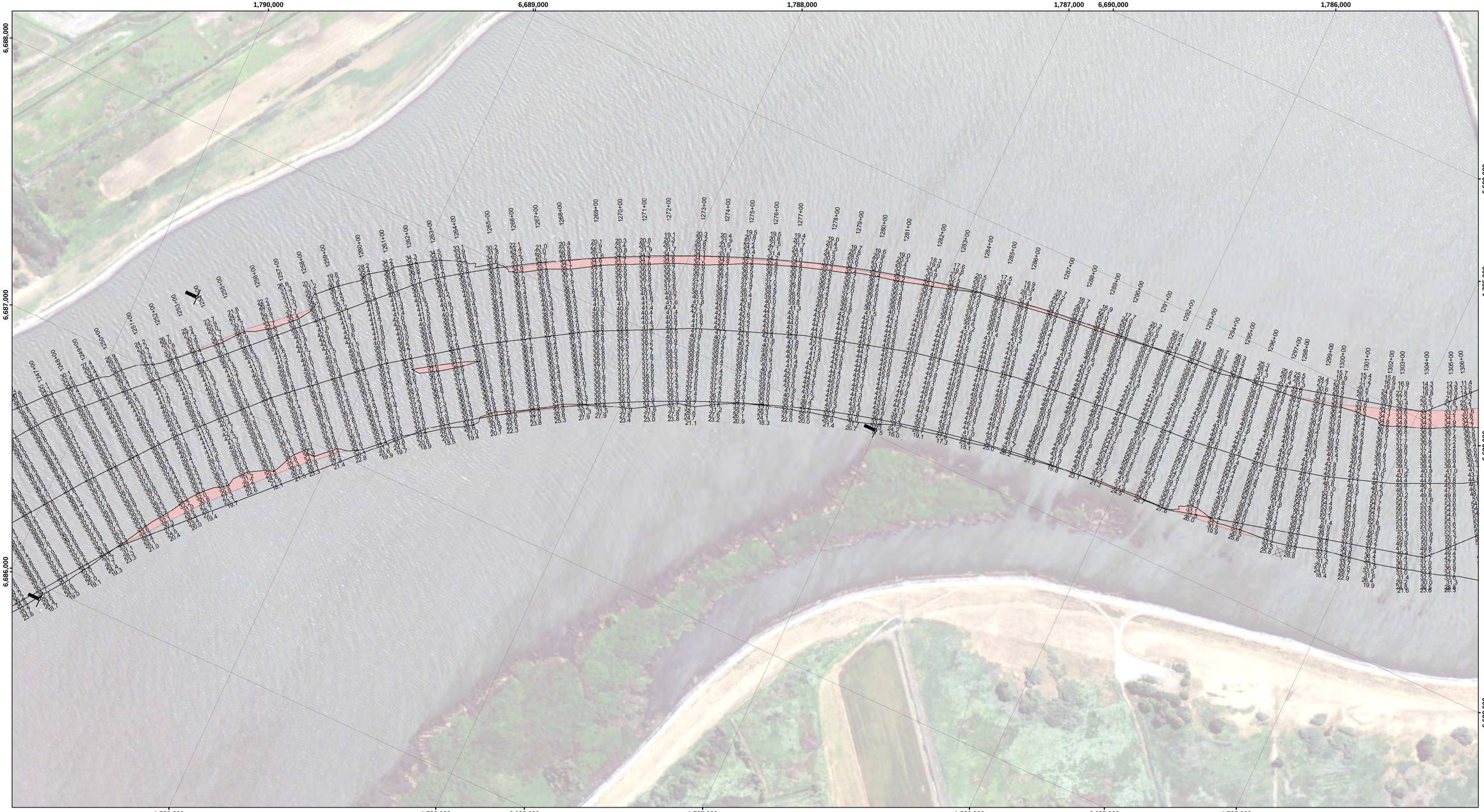
Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

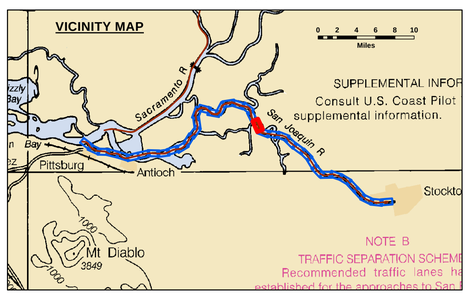
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
22 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date:	Jun 08, 2015
Plotted By: PDT	Designed by:	
Checked By: PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

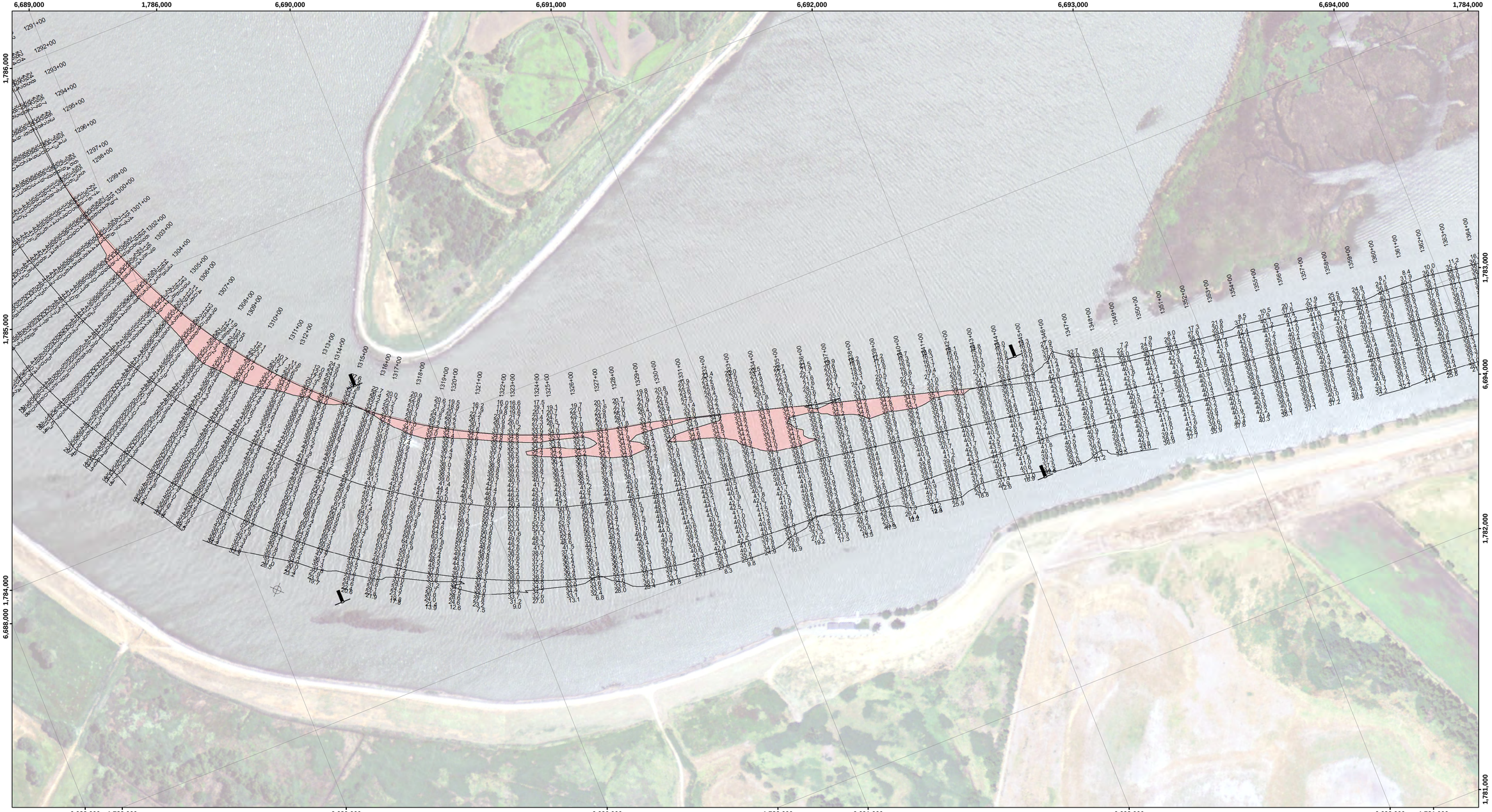
Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

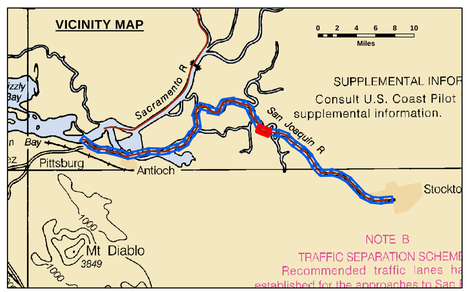
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
23 of 39





Feet

0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

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Tide gage
Equipment statement

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NOOA STATION: 9415316
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
NOOA 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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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

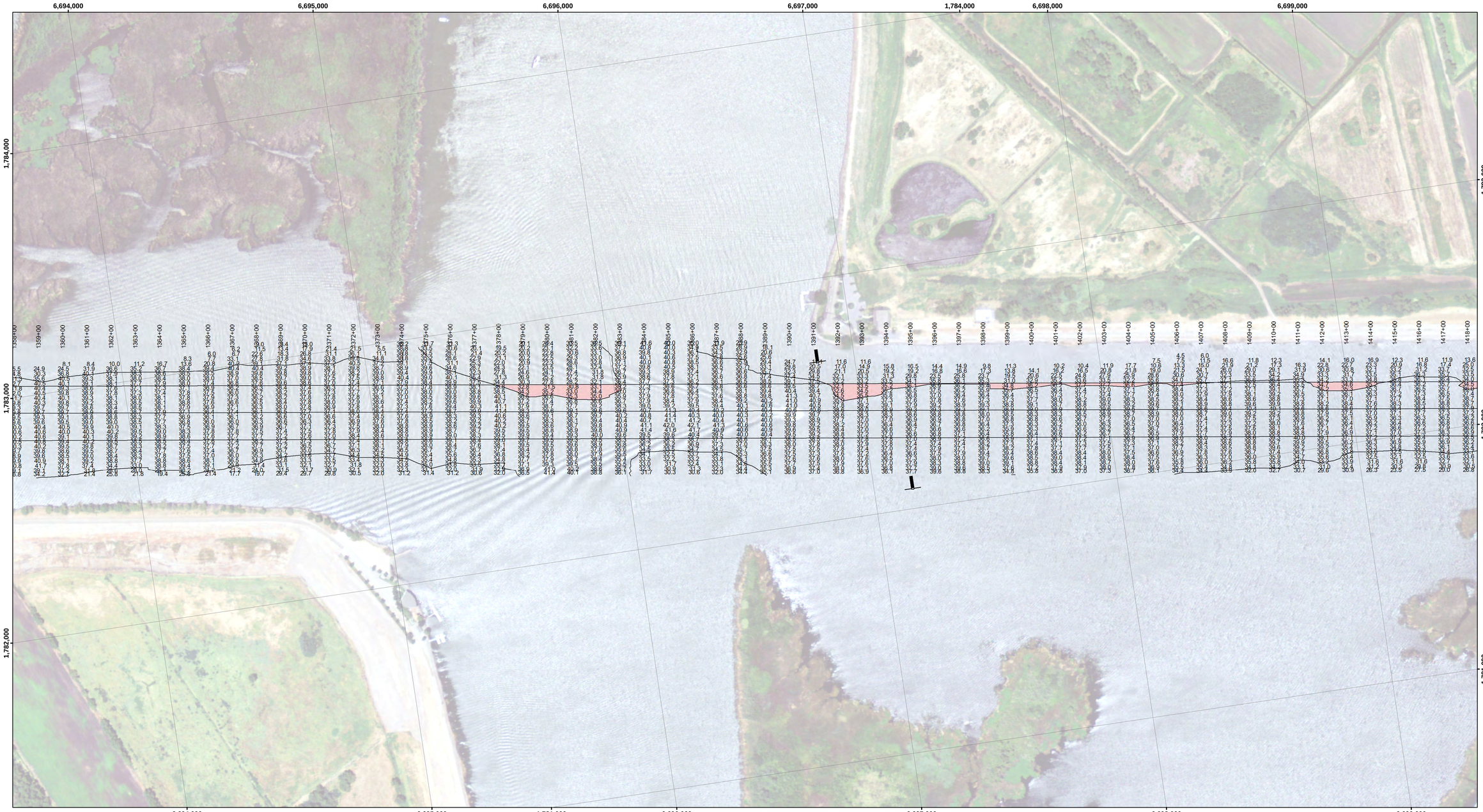
Submitted: Hydro Survey Team Leader	Surveyed By:	Chart Date: Jun 08, 2015
Recommended: Chief, Hydro Survey Section	Plotted By: PDT	Designed by:
Approved: Chief, Construction Branch	Checked By: PDT	Drawn by: PDT

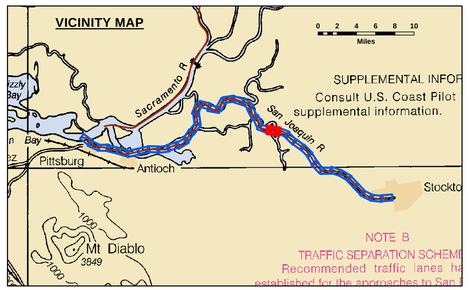
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
24 of 39





Feet
0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

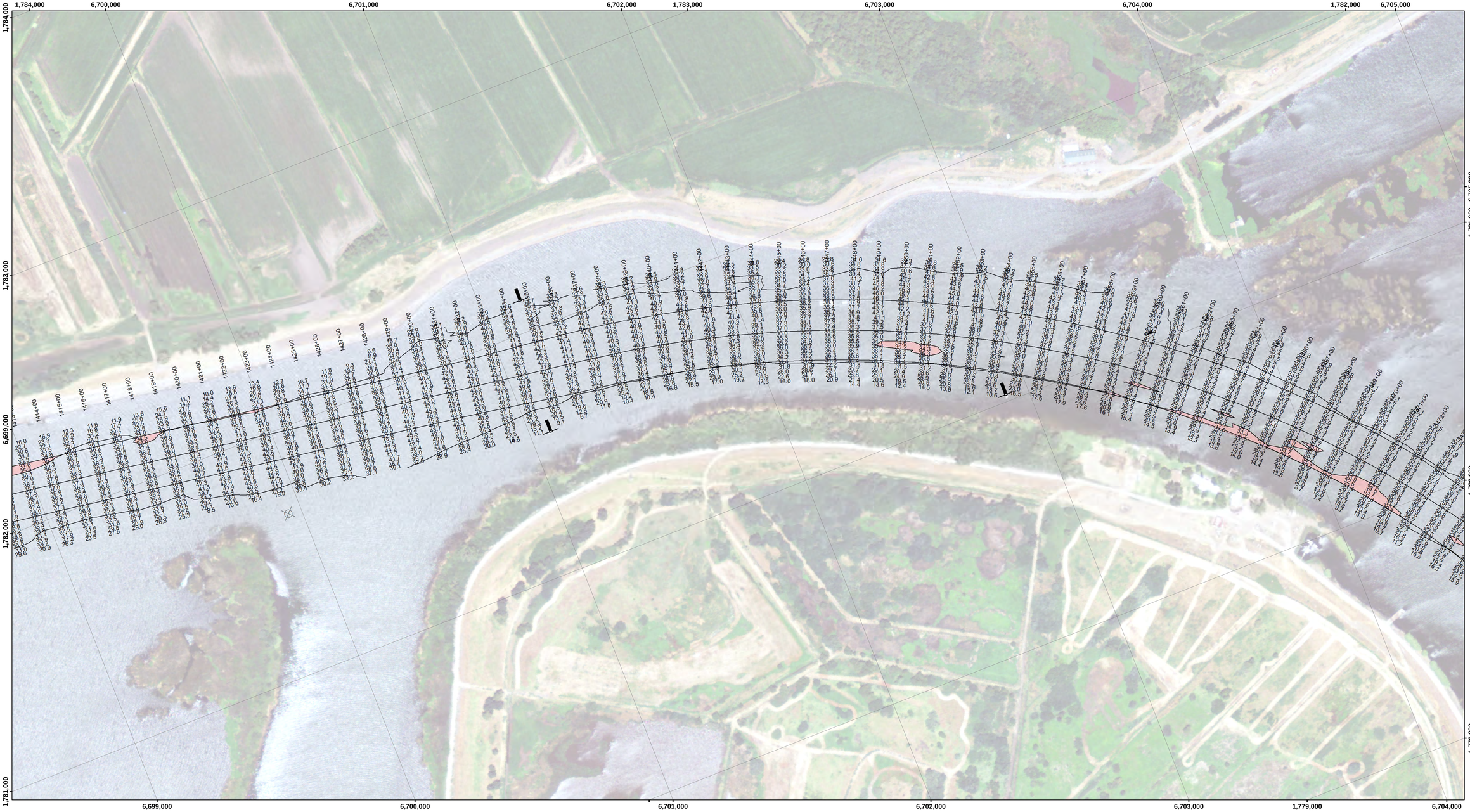
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

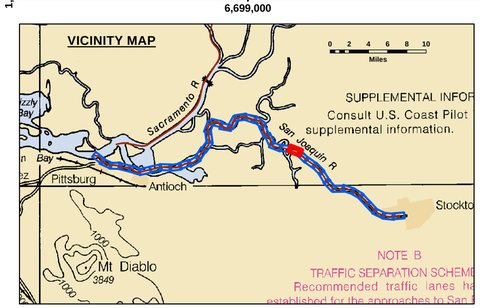
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
25 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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NOAA STATION: 9416131
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
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LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS
20 APRIL - 06 MAY 2015
CONDITION SURVEY

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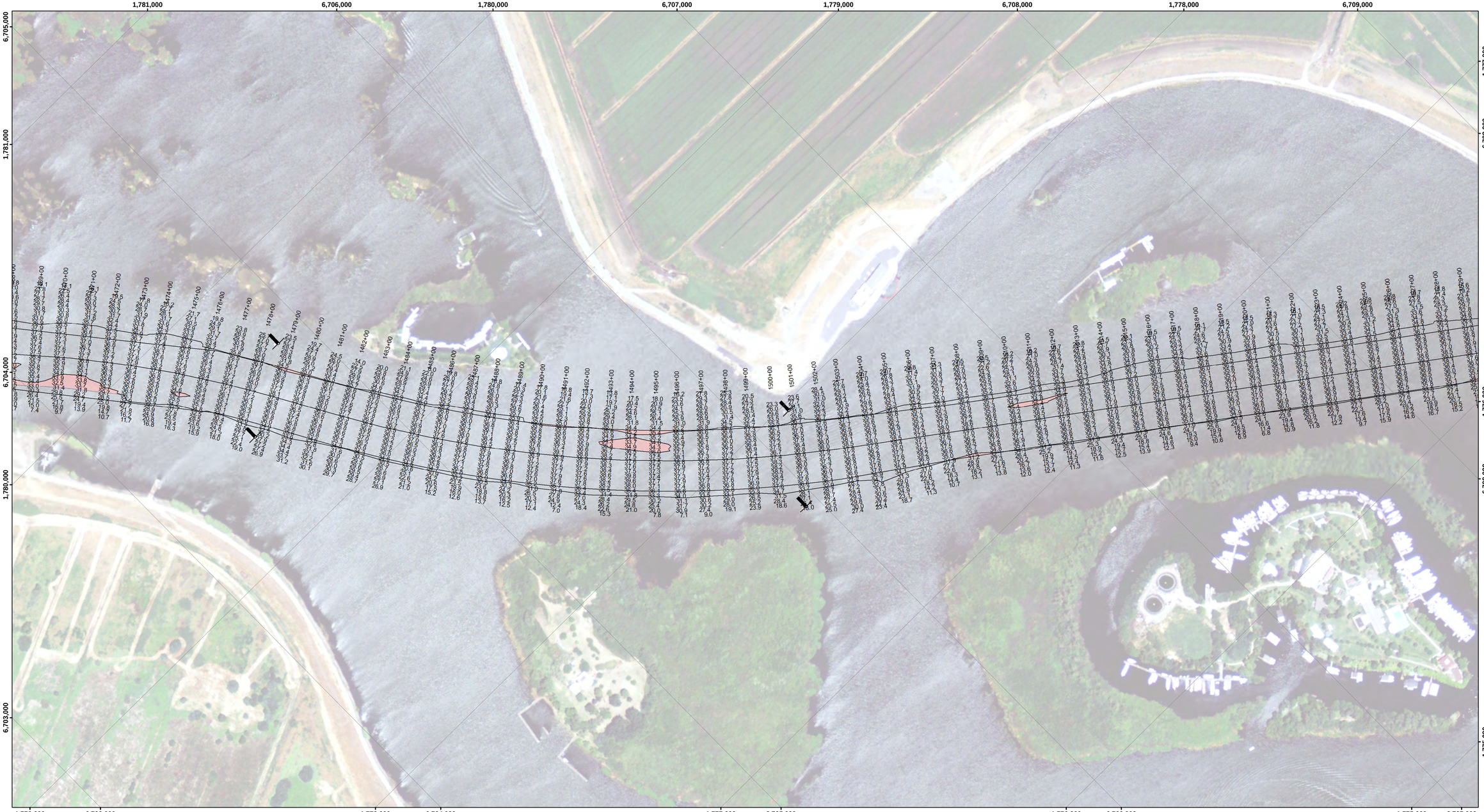

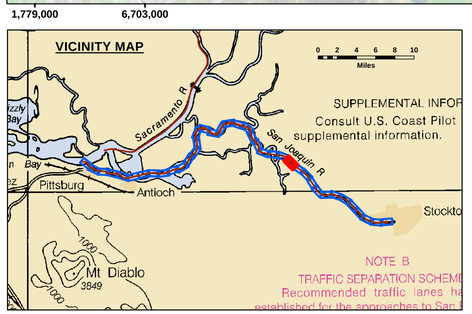

Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
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NOTES:

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JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

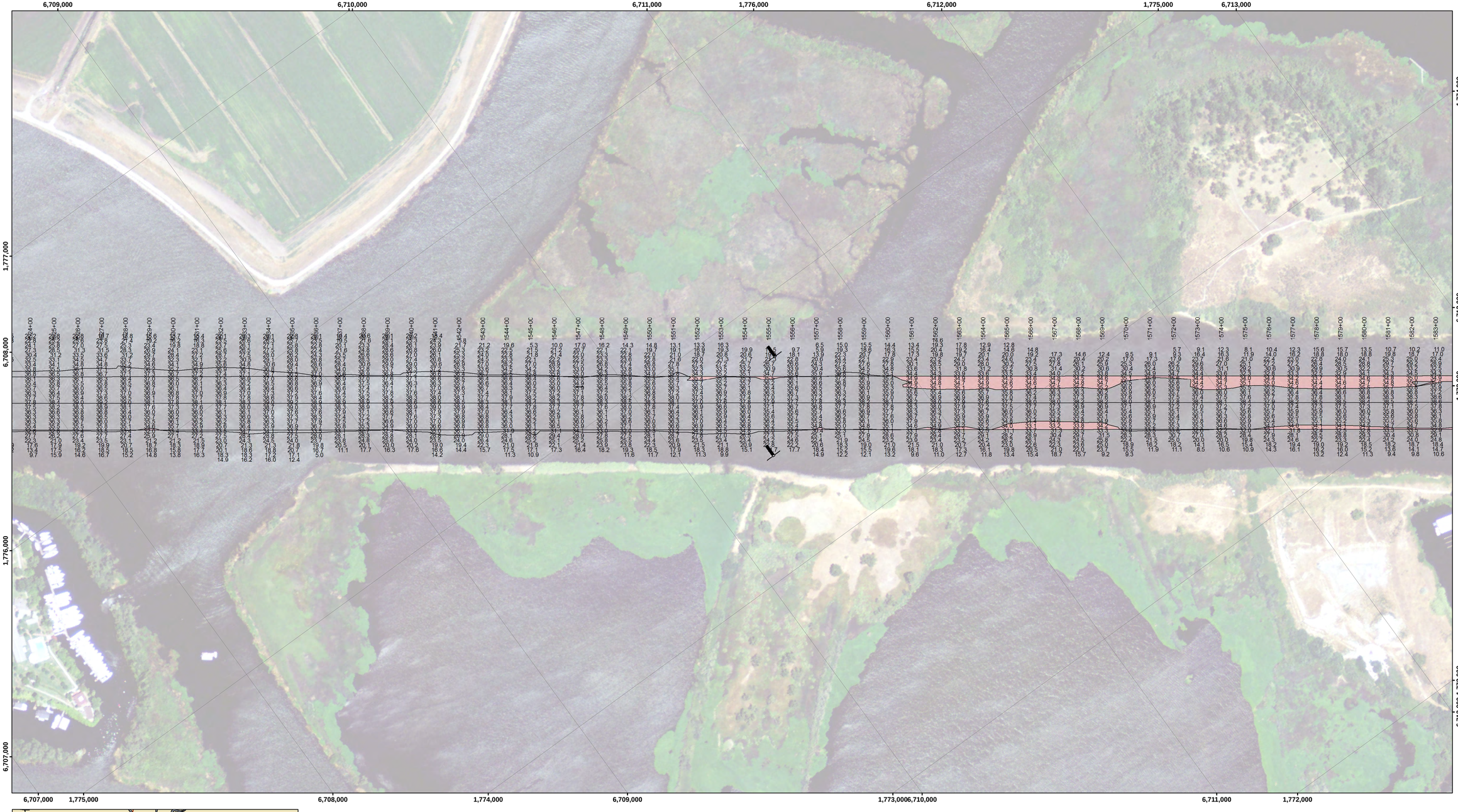
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

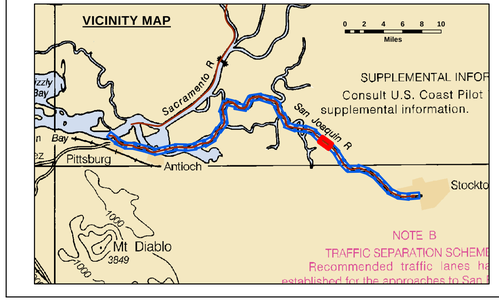
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
27 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
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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: 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.

US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	PDT
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, CE, DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

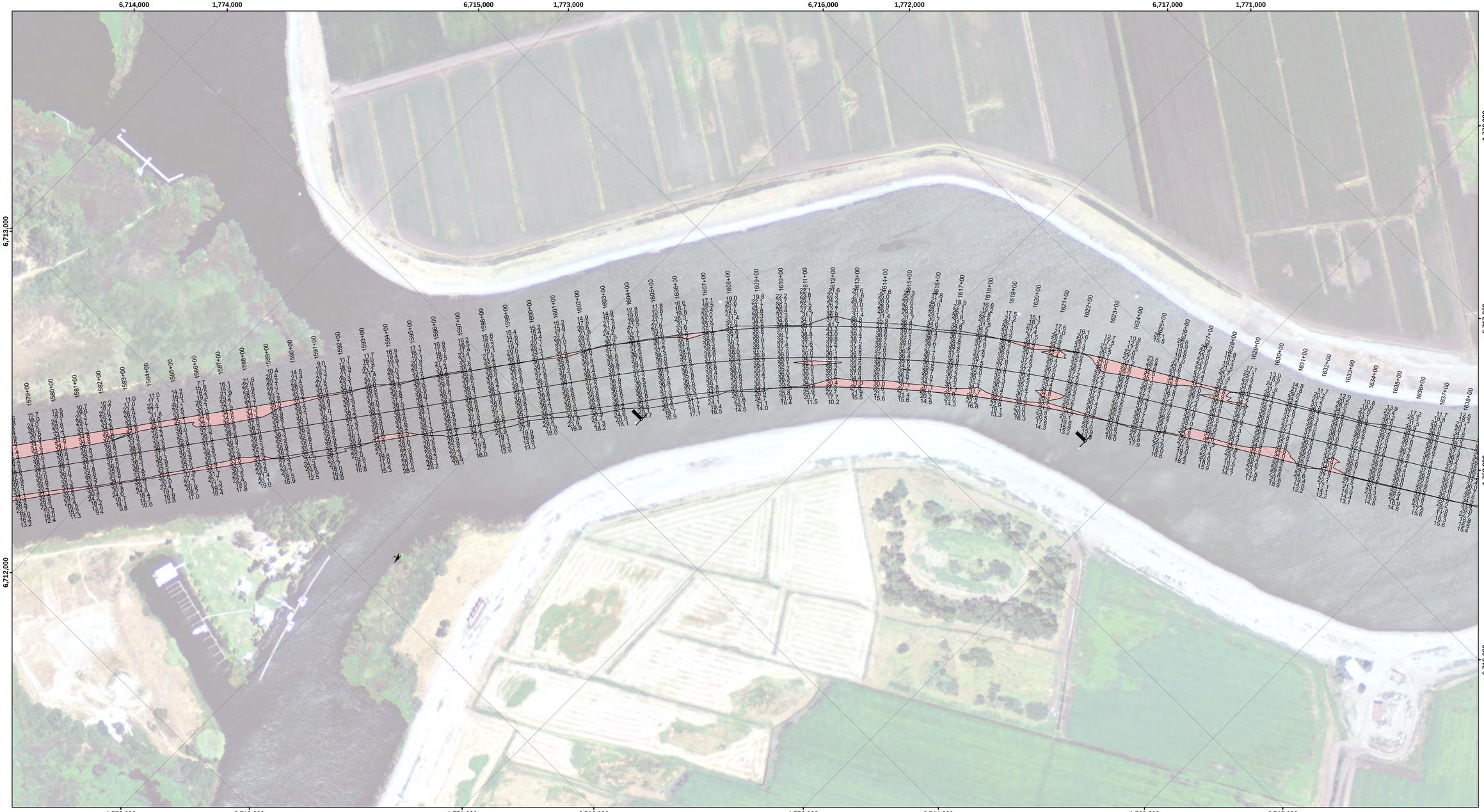
Approved
Chief, Construction Branch

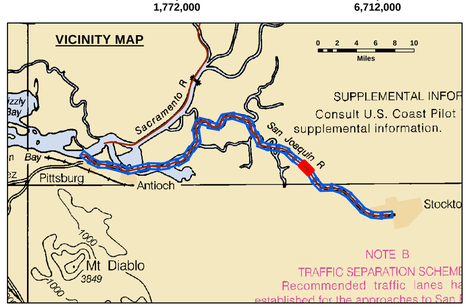
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
28 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	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.

River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted:
Hydro Survey Team Leader

Recommended:
Chief, Hydro Survey Section

Approved:
Chief, Construction Branch

Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: Jun 08, 2015
Designed by:
Drawn by: PDT

SAN JOAQUIN COUNTY CALIFORNIA

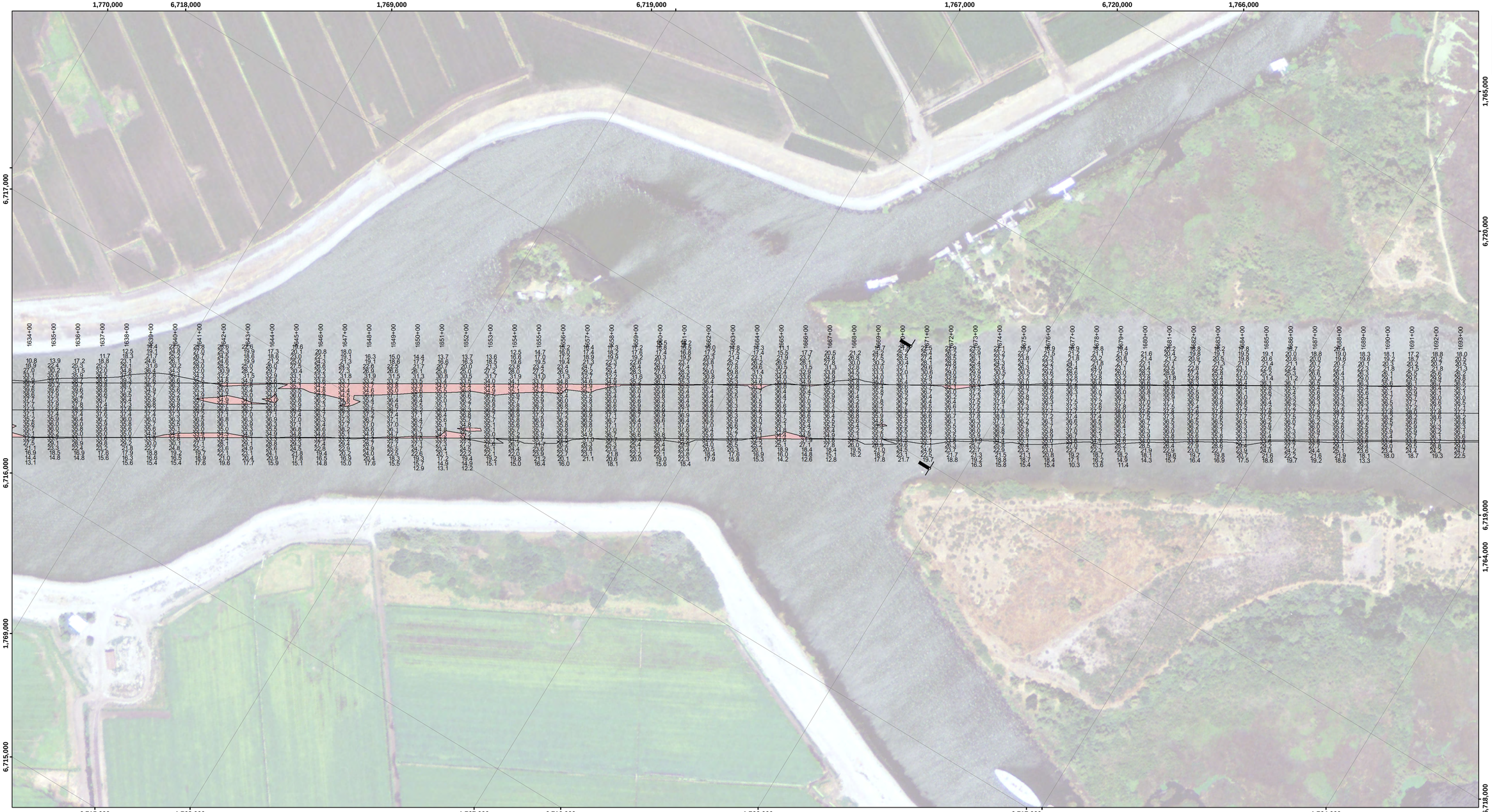
JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

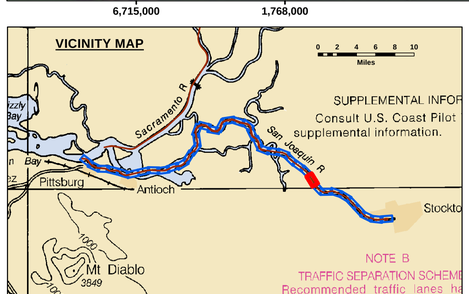
20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
29 of 39

CORPS OF ENGINEERS

U.S. ARMY





Feet

0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

Horizontal Coordinate System:
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NOAA STATION: 9415316
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LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
		Designed by:	
Plotted By:	PDT	Drawn by:	PDT
Checked By:	PDT		

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

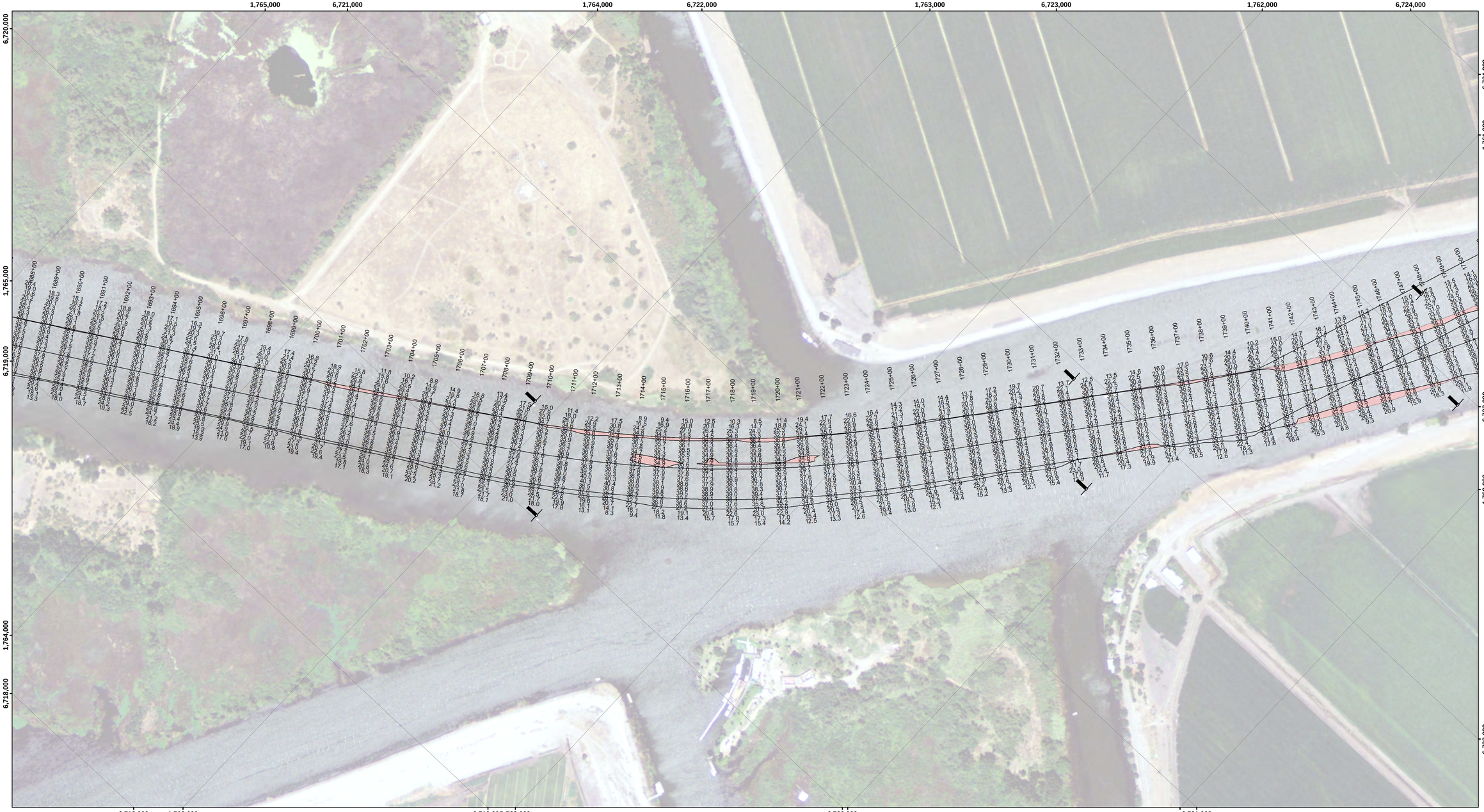
Approved
Chief, Construction Branch

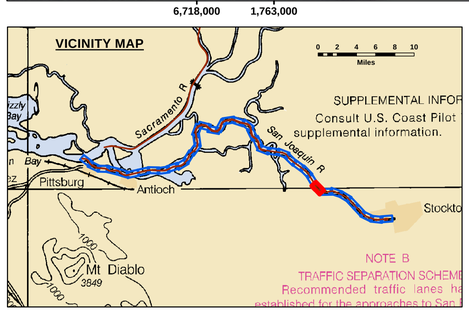
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
30 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

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NOOA STATION: 9415316
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METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO
NOOA STATION: 9416131
BENCHMARK: POWS1 (No PID)
TIDE GAUGE: Nail @ 10.0 ft MLLW
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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date: Jun 08, 2015	
Plotted By: PDT	Designed by:	
Checked By: PDT	Drawn by: PDT	

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

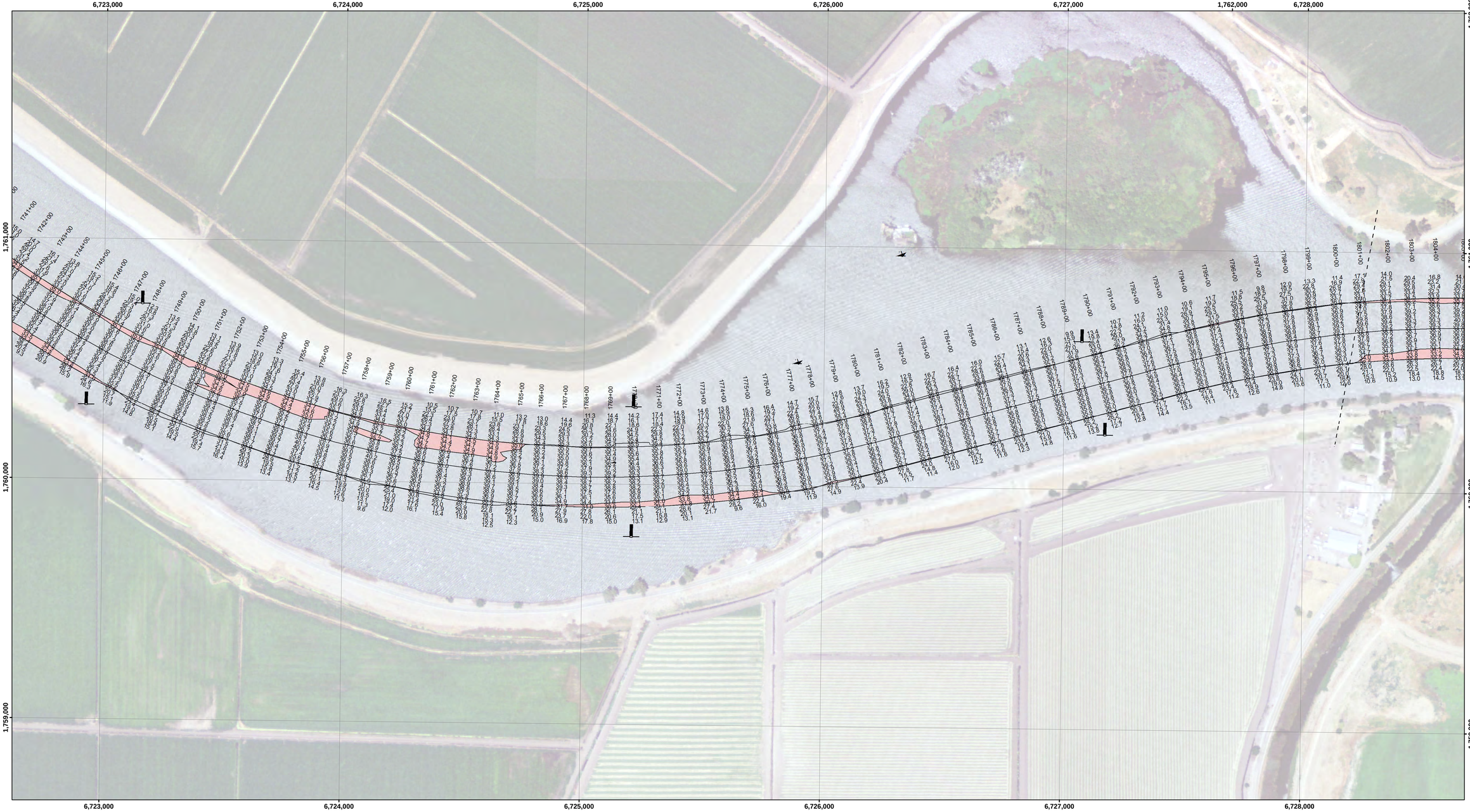
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

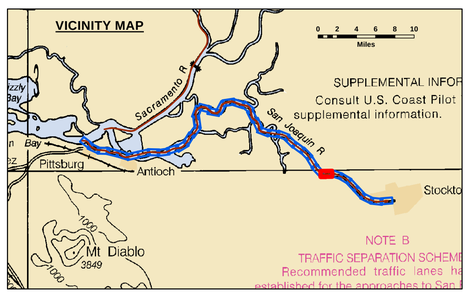
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
31 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	PDT
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

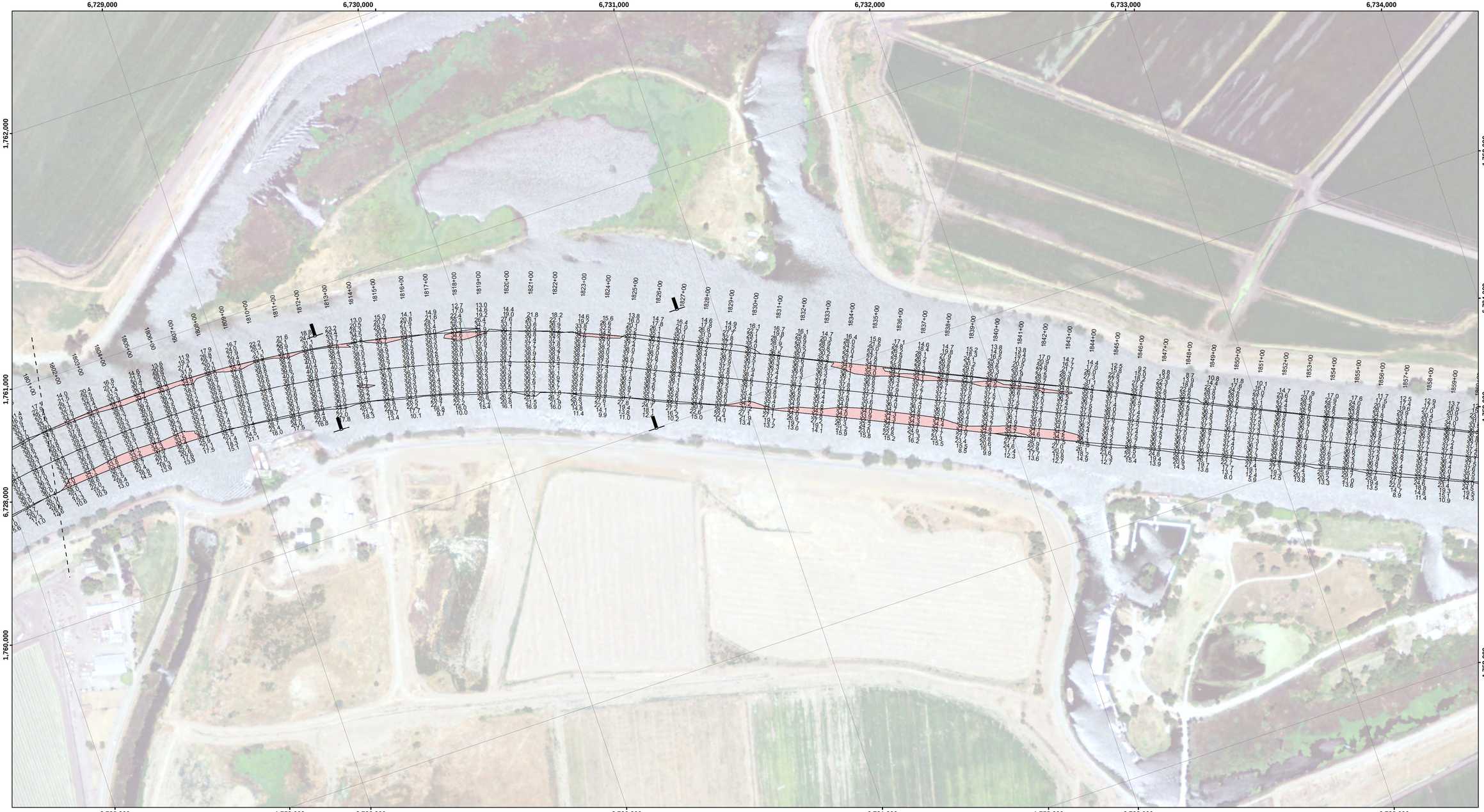
Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

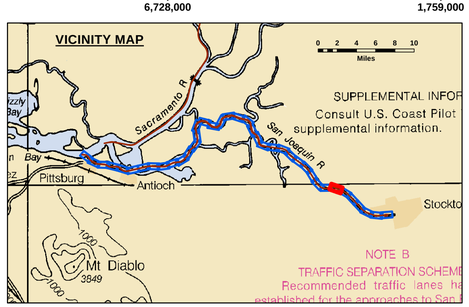
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
32 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
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- Contour Line
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- Anchorage Area
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NOTES:

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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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** Shoalest Sounding per Quarter per Reach.

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NOAA STATION: 9415316
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TIDE GAUGE: Nail @ 8.2 ft MLLW
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LOCATION: PORT OF WEST SACRAMENTO
NOAA STATION: 9416131
BENCHMARK: POWS1 (No PID)
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

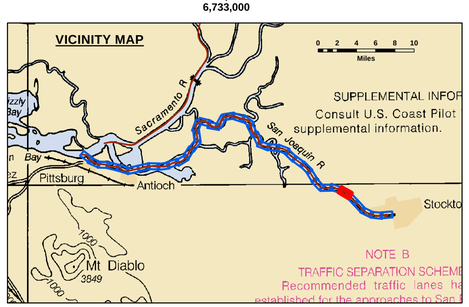
Submitted: Hydro Survey Team Leader	
Recommended: Chief, Hydro Survey Section	
Approved: Chief, Construction Branch	

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
33 of 39



Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
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- Beacon, General
- Red Navigation Buoy
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NOTES:

Horizontal Coordinate System:
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Project Depth -35'
Tide gage
Equipment statement

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LOCATION: RIO VISTA
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

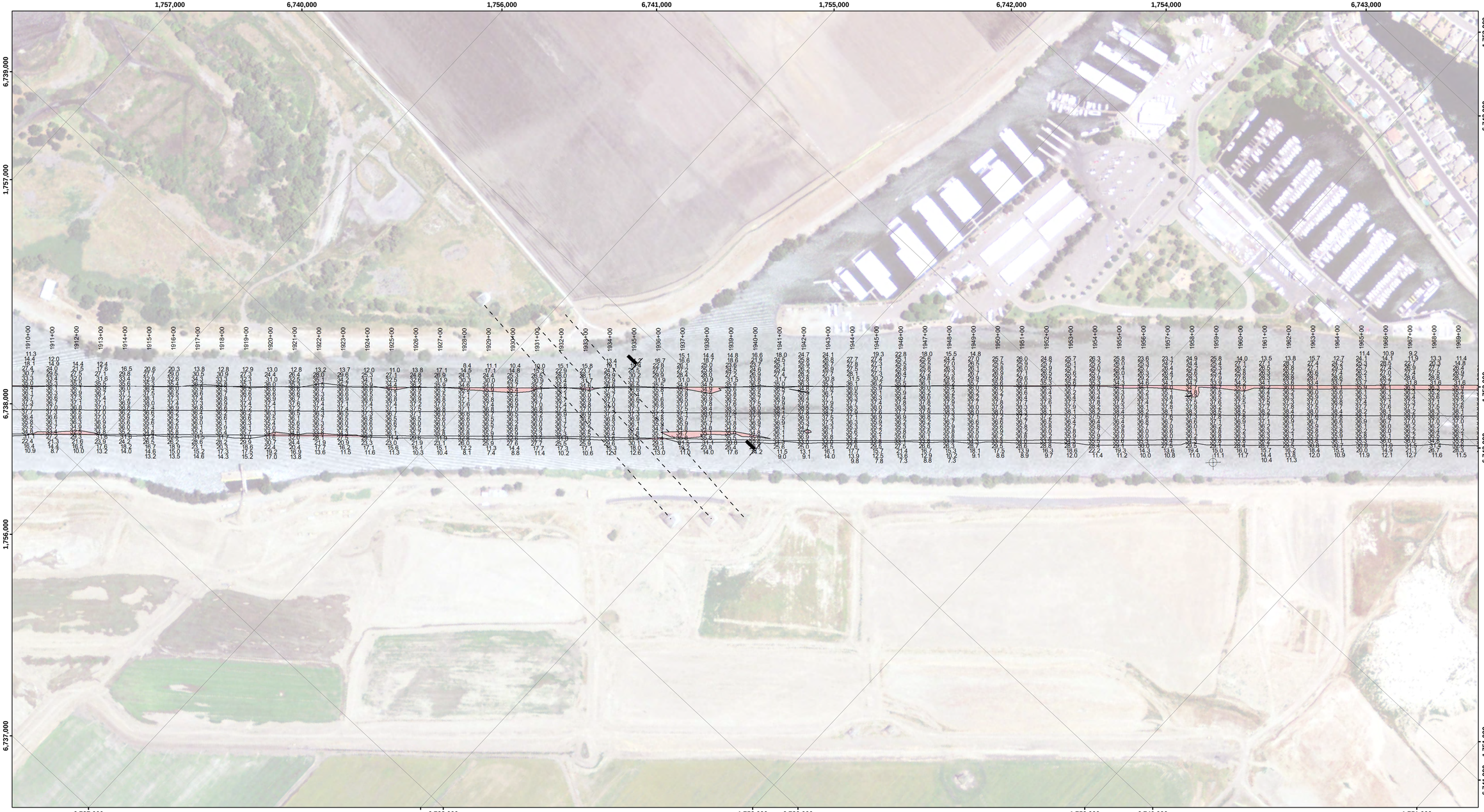
Submitted: Hydro Survey Team Leader	
Recommended: Chief, Hydro Survey Section	
Approved: Chief, Construction Branch	

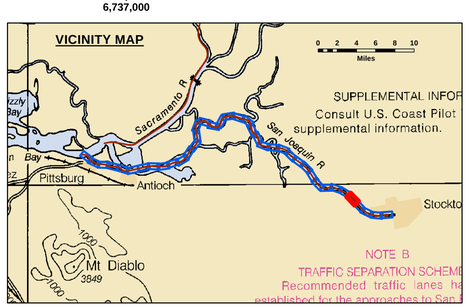
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
34 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
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- Cable Submarine
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River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOAA STATION: 9415316
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: 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.

US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, CE, DISTRICT ENGINEER

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

Approved
Chief, Construction Branch

SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
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CORPS OF ENGINEERS

U.S. ARMY

6,743,000 1,753,000 6,744,000 1,752,000 6,745,000 1,751,000 6,746,000 1,750,000 6,747,000

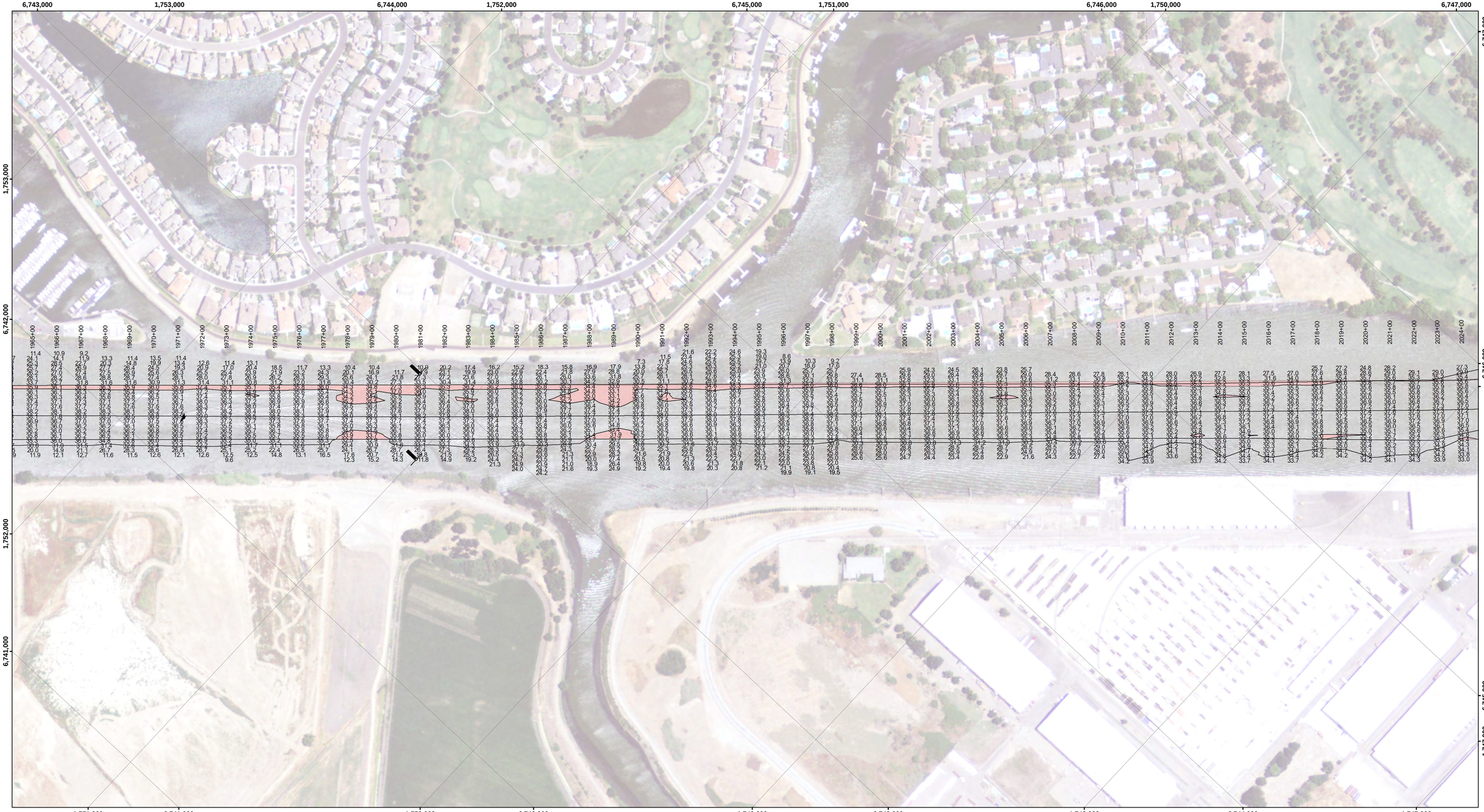
1,753,000 6,747,000

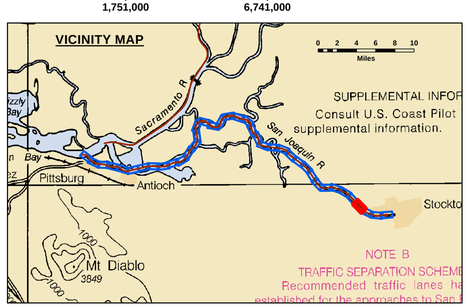
1,752,000 6,746,000

6,742,000 6,745,000

6,741,000 1,747,000

1,751,000 6,741,000 1,750,000 6,742,000 1,749,000 6,743,000 1,748,000 6,744,000 1,747,000





Feet

0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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.

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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.

** Shoalest Sounding per Quarter per Reach.

Project Information:
Drawing not to be used for navigation.
Project Depth -35'
Tide gage
Equipment statement

CONTROLS:
LOCATION: RIO VISTA
NOOA STATION: 9415316
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
NOOA 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.

US Army Corps of Engineers
District: CESPN

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Chart Date: Jun 08, 2015			
Surveyed By:	Plotted By: PDT	Checked By: PDT	Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted	Hydro Survey Team Leader
Recommended	Chief, Hydro Survey Section
Approved	Chief, Construction Branch

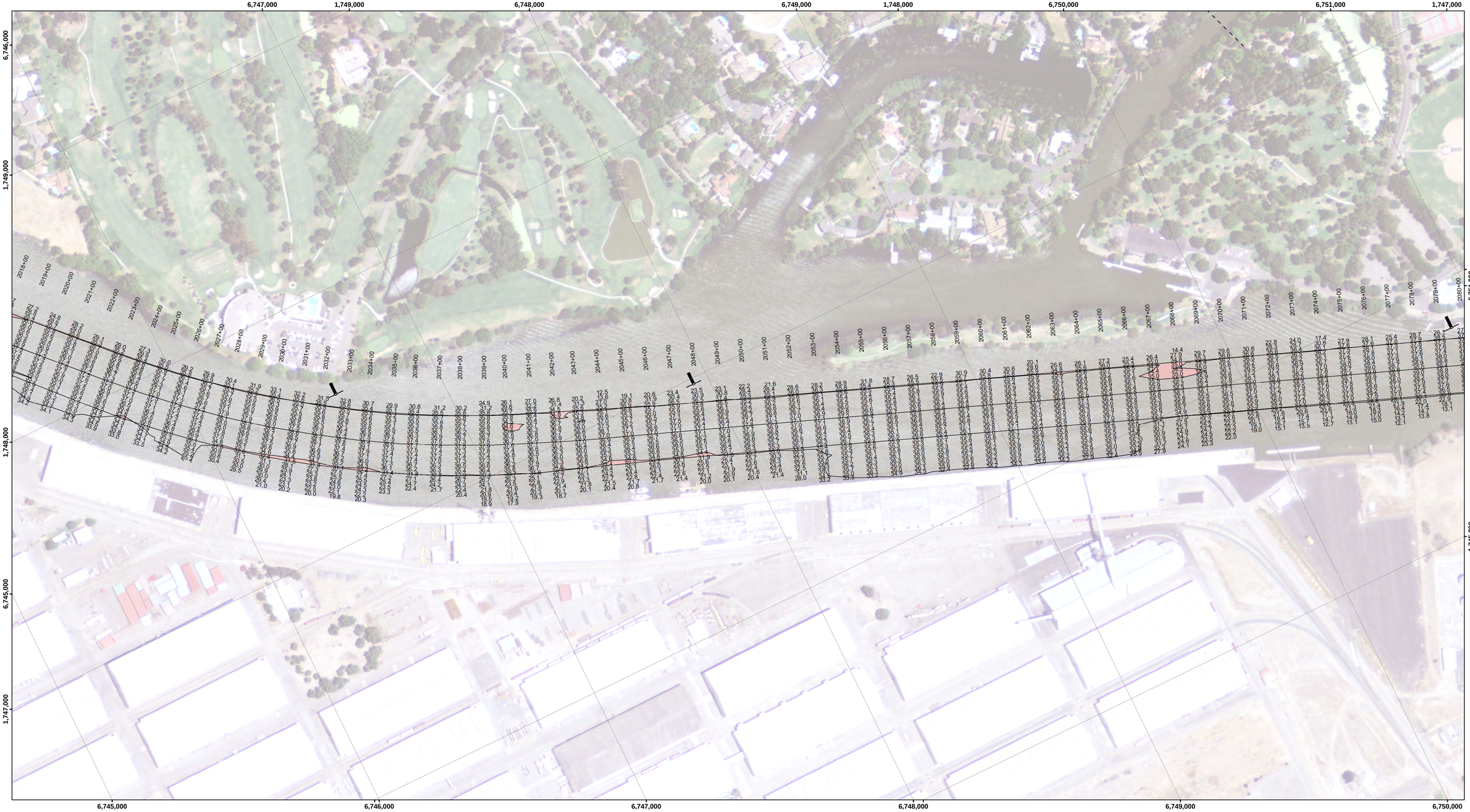
CALIFORNIA

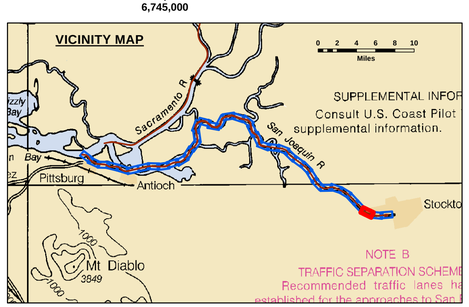
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
36 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- 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:
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LOCATION: RIO VISTA
NOAA STATION: 9415316
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US Army Corps of Engineers
District: CESPN

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Surveyed By:		Chart Date:	Jun 08, 2015
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E. DISTRICT ENGINEER

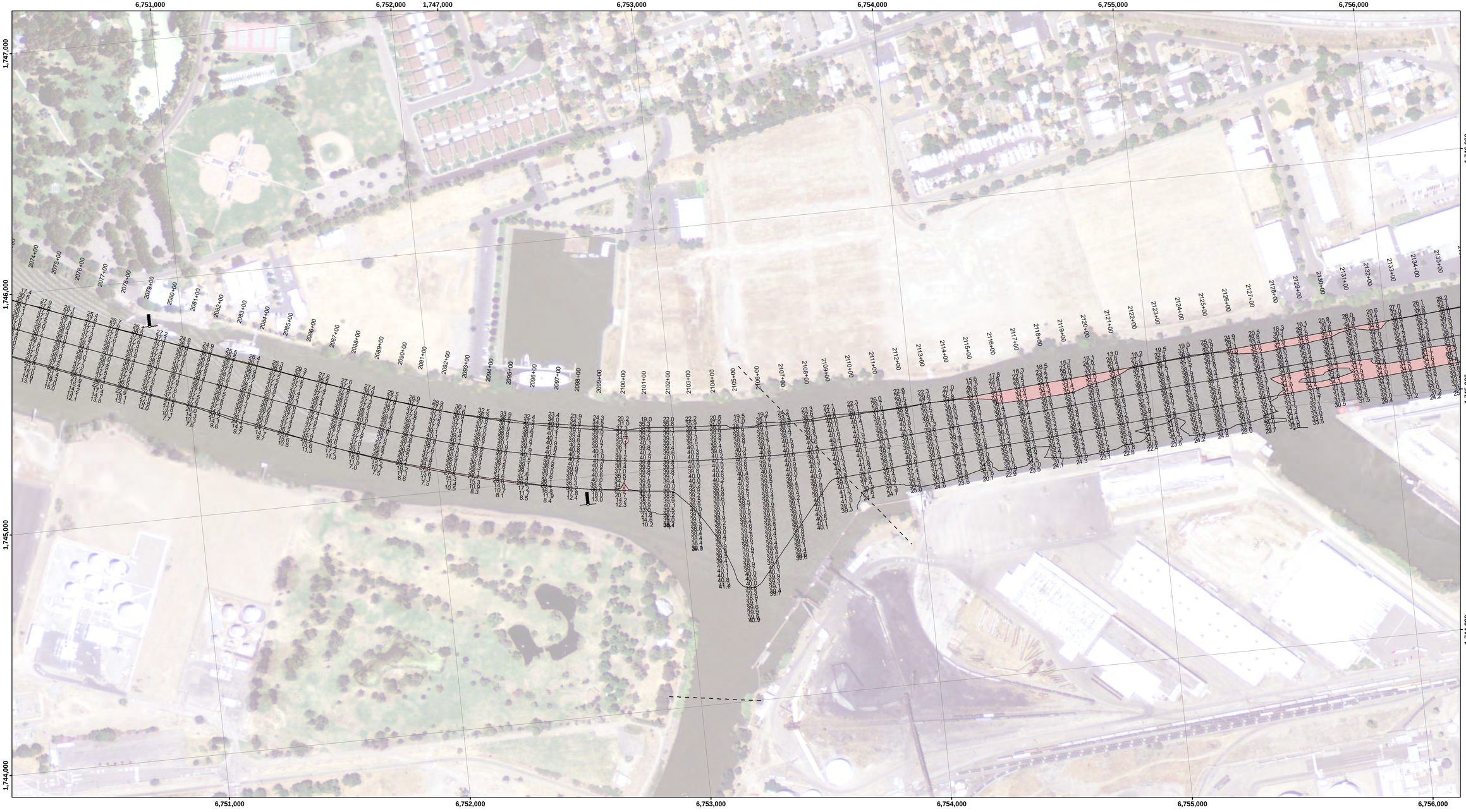
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

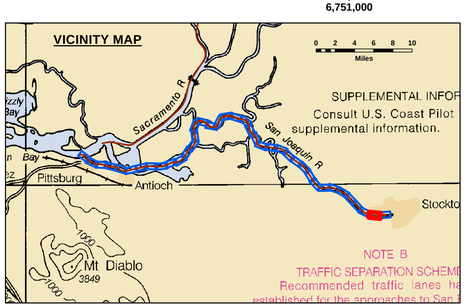
CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
37 of 39





Feet

0 400 800 1,200

LEGEND

Federal Navigation Channel	Cable Area	Shoaling Area
Federal Navigation Center Line	Placement Area	Shoalest Sounding**
Cable Submarine	Anchorage Area	Beacon, General
Cable Overhead	Obstruction Point	Red Navigation Buoy
Contour Line	Wrecks-Submerged	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.

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Project Depth -35'
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NOOA STATION: 9416131
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US Army Corps of Engineers
District: CESPN

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

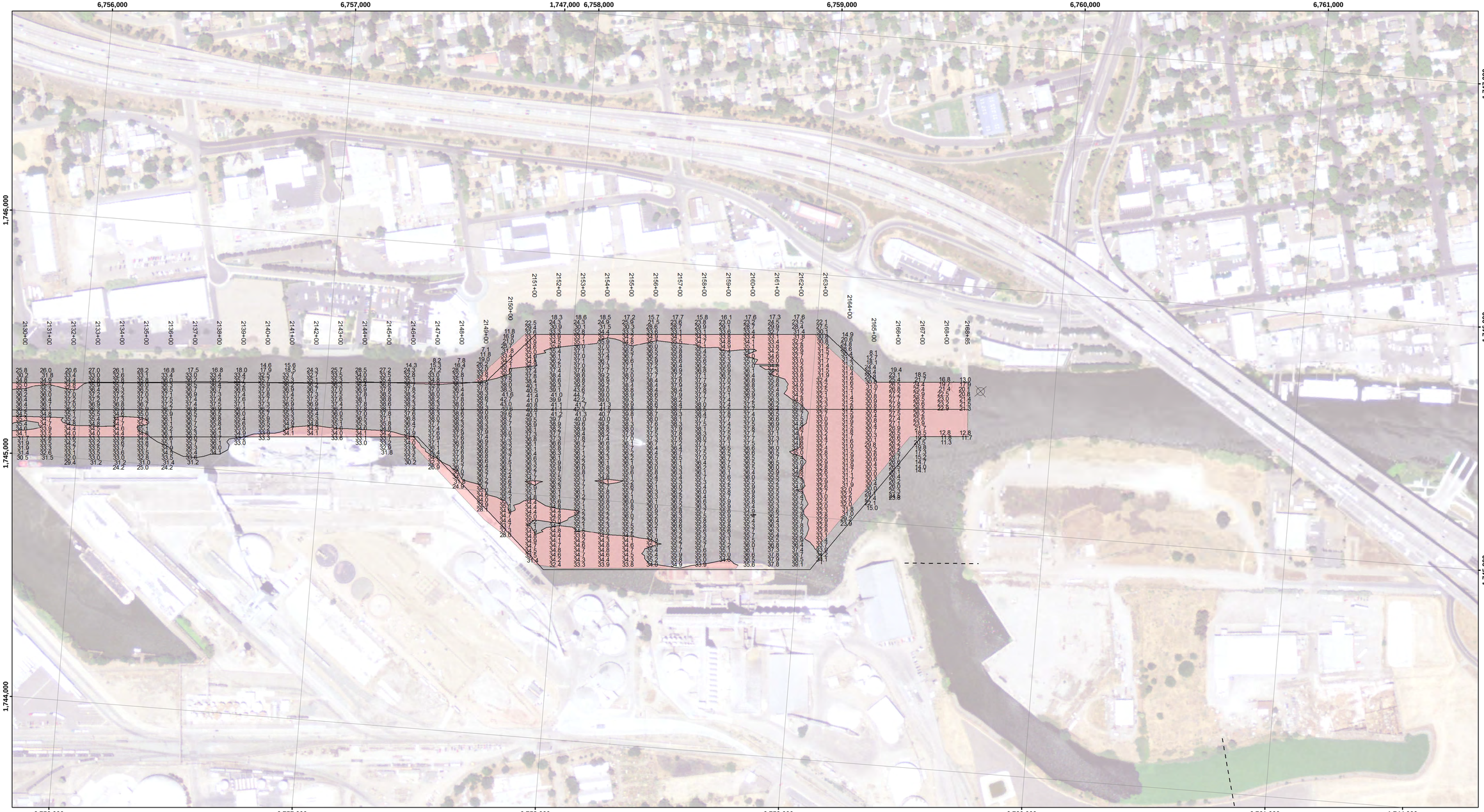
Surveyed By:	Chart Date: Jun 08, 2015
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

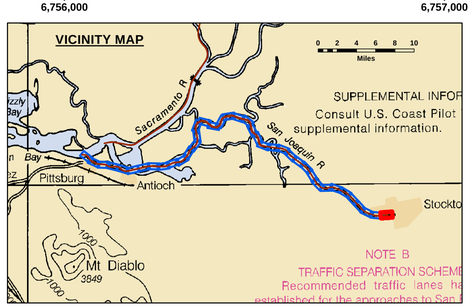
SAN JOAQUIN COUNTY CALIFORNIA

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
38 of 39





Feet
0 400 800 1,200

LEGEND

- Federal Navigation Channel
- Federal Navigation Center Line
- Cable Submarine
- Cable Overhead
- Contour Line
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:

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US Army Corps of Engineers
District: CESPN

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Surveyed By:	Chart Date:	Jun 08, 2015
Plotted By: PDT	Designed by:	
Checked By: PDT	Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader	
Recommended: Chief, Hydro Survey Section	
Approved: Chief, Construction Branch	

CALIFORNIA
SAN JOAQUIN COUNTY

JOHN F. BALDWIN AND STOCKTON SHIP CHANNELS

20 APRIL - 06 MAY 2015
CONDITION SURVEY

Sheet Reference Number
39 of 39