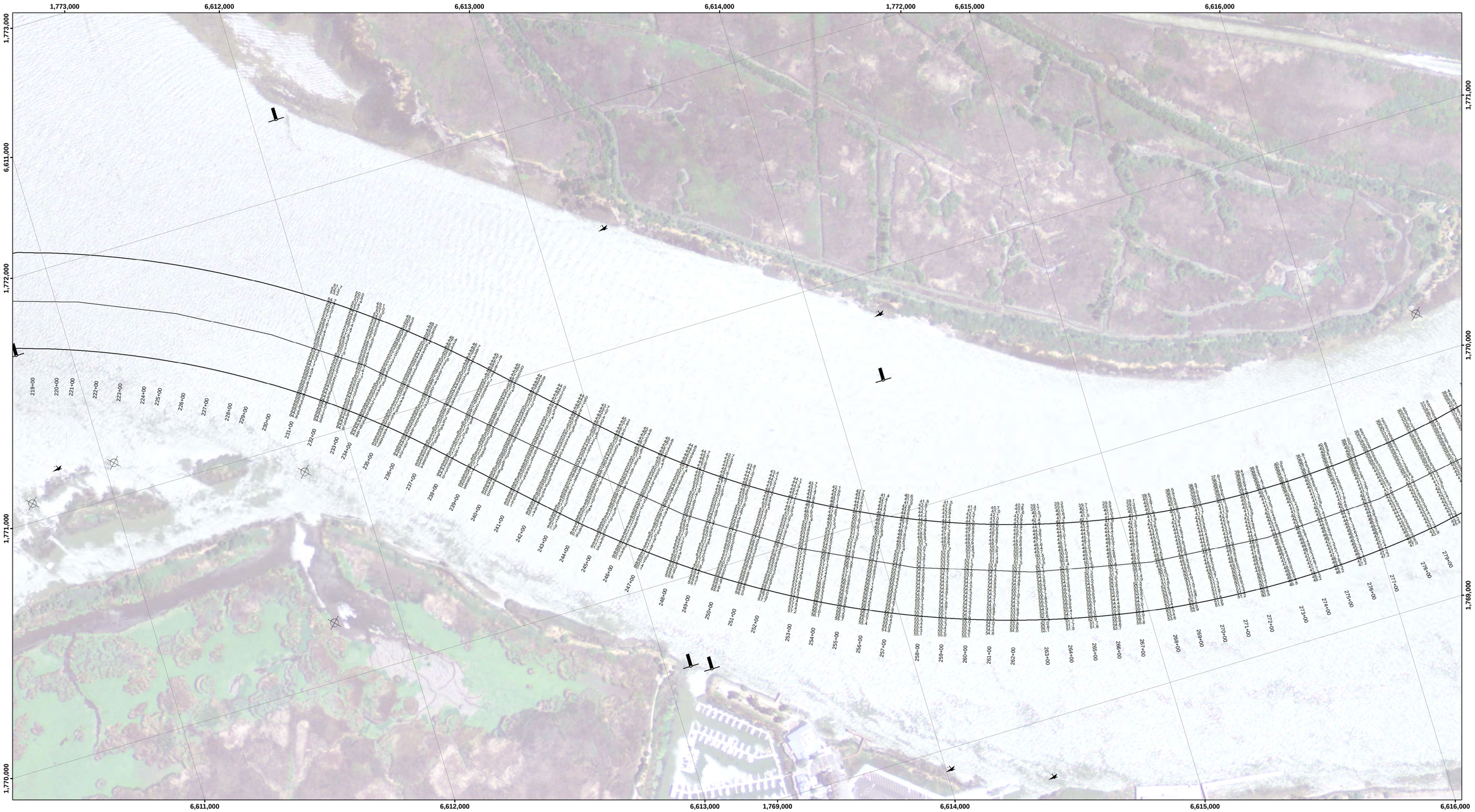
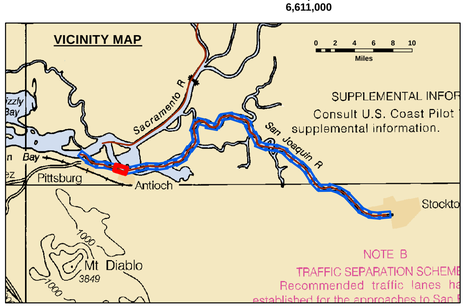




Feet

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Data Quality Statement: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from use made thereof. These data belong to the Government. Therefore the recipient shall not transfer these data to others without informing them that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition and processing conducted by the US Army Corps of Engineers policy and in accordance the general existing conditions. As such, it is only valid for its intended use, content, time and location specified in the original data request. The Government is not liable for any of the application of the data for other than its intended purpose.

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

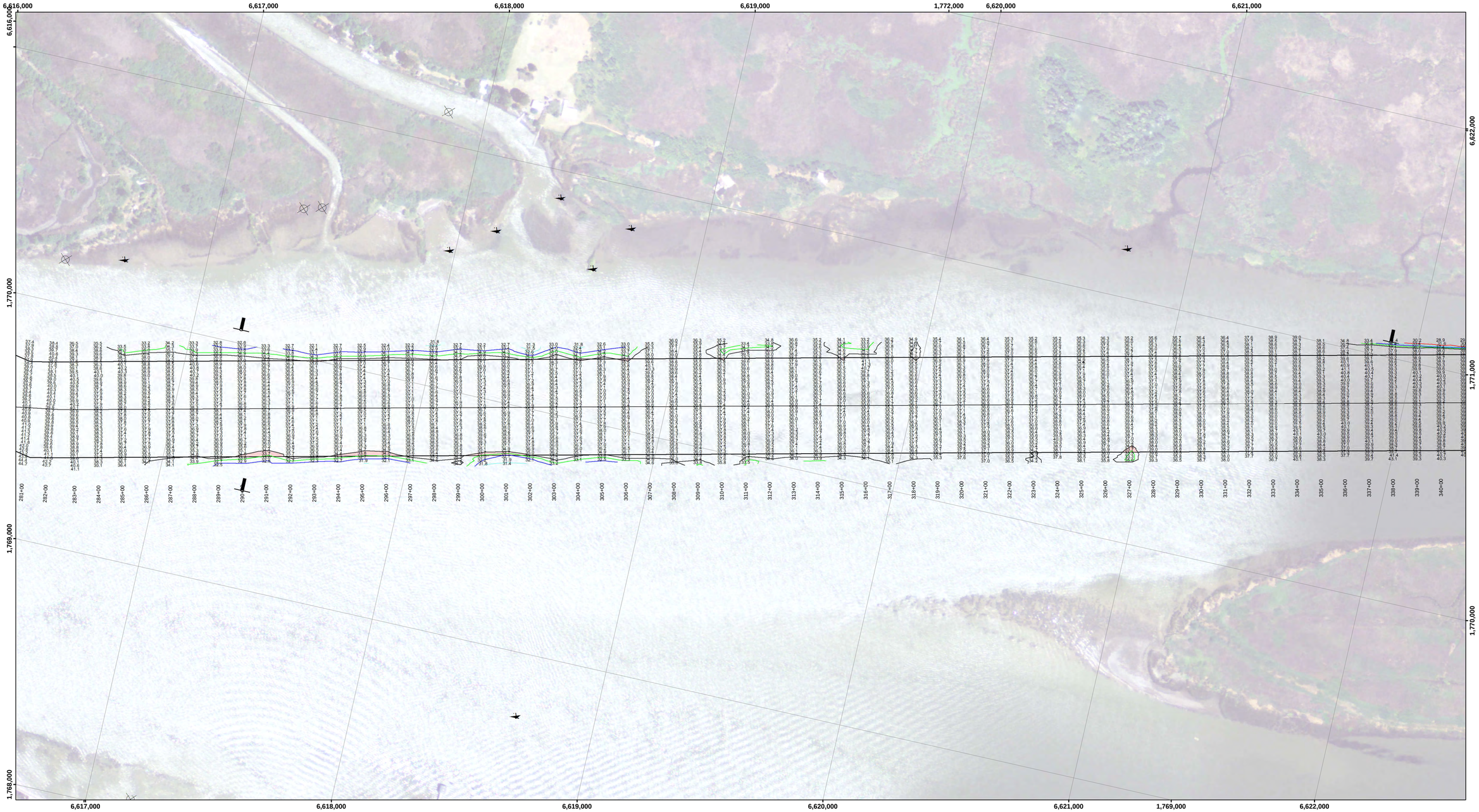
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

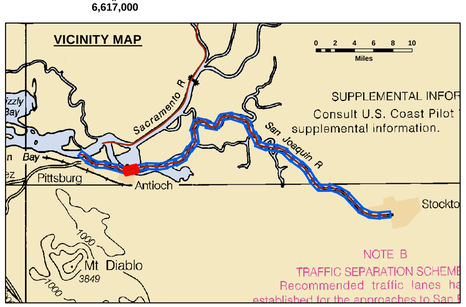
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: May 17, 2016
Designed by:
Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
5 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from the use made thereof. These data belong to the Government. Therefore the recipient agrees to preserve the proprietary rights of the Government and that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collected by the Corps of Engineers in accordance with Corps of Engineers policy and in accordance with generally existing conditions. As such, it is only valid for its intended use, content, time and conditions of collection. Use of the data for other than its intended purpose is at the sole risk of the user. The Corps of Engineers assumes no liability for the use of any of the application of the data for other than its intended purpose.

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

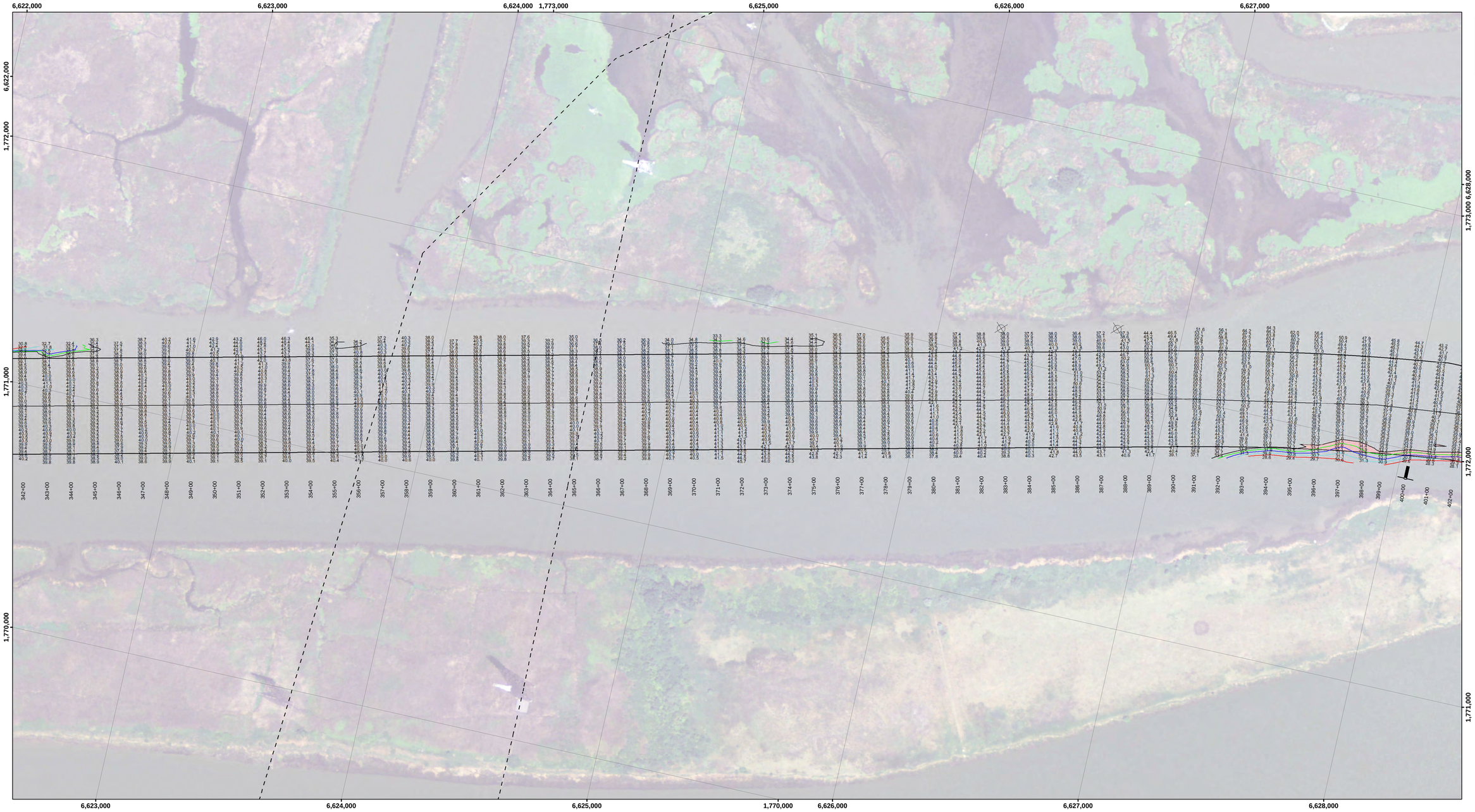
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

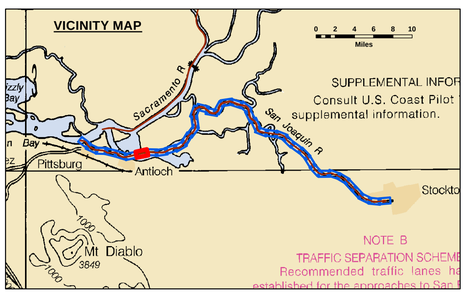
Surveyed By:
Plotted By: PDT
Designed by:
Drawn by: PDT
Checked By: PDT
Chart Date: May 17, 2016

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
6 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability. The data represents the results of data collection and analysis performed by the U.S. Army Corps of Engineers, Sacramento District, in accordance with its general existing conditions. As such, it is only valid for its intended use, content, time and location. Any modification or alteration of the data, or any use of any of the data for purposes other than its intended purpose, is at your sole risk. The Government makes no representations or warranties of any kind regarding the suitability of the data for other than its intended purpose. The Government shall not be liable for any damages resulting from any modification or alteration of the data, or any use of any of the data for other than its intended purpose.

DISCLAIMER
Distribution Liability. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any damages resulting from any use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

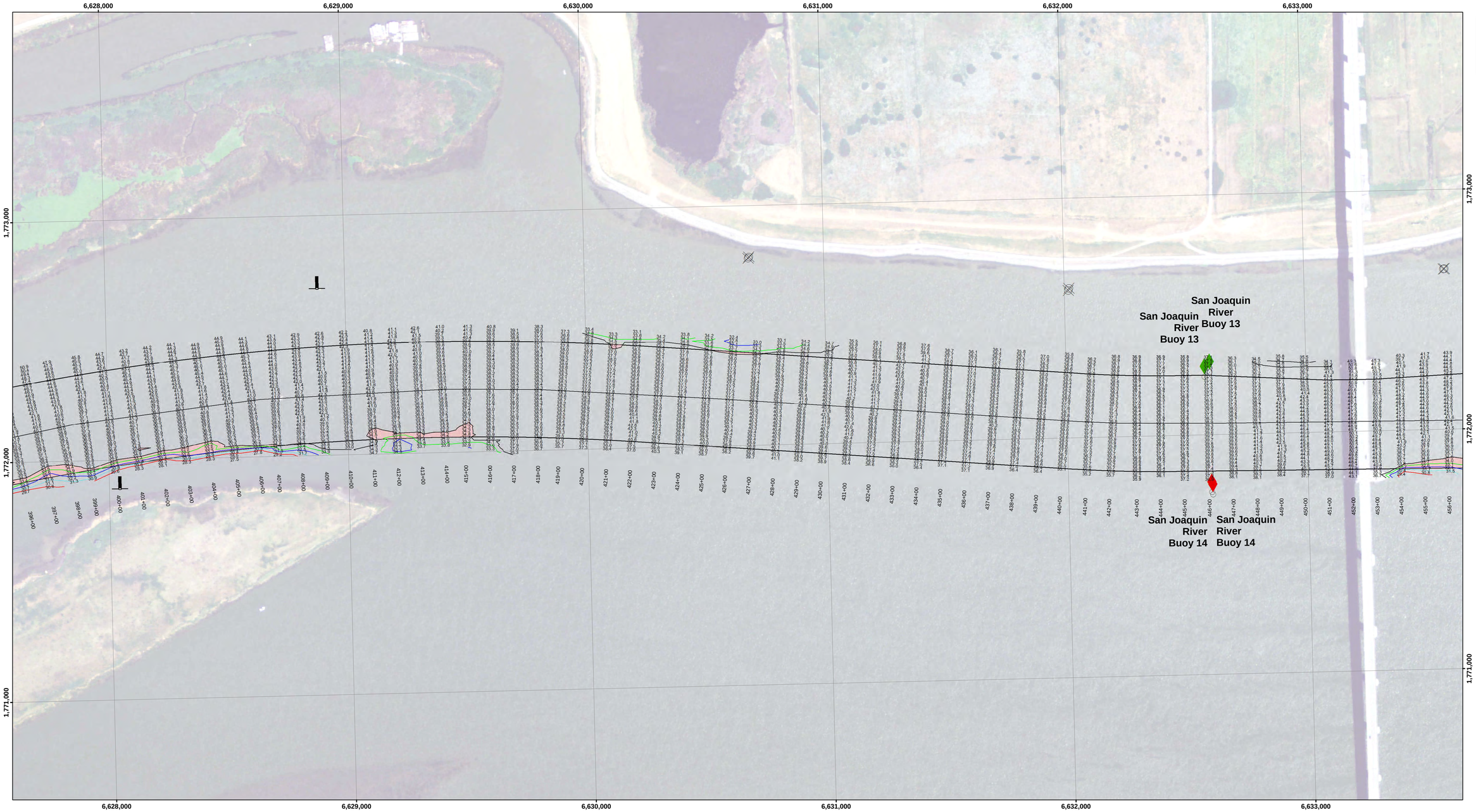
PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT. COLONEL, C.E. DISTRICT ENGINEER	Surveyed By:	Chart Date: May 17, 2016	
	Plotted By: PDT	Designed by:	
Submitted: Hydro Survey Team Leader	Checked By: PDT	Drawn by: PDT	
Recommended: Chief, Hydro Survey Section			
Approved: Chief, Construction Branch			

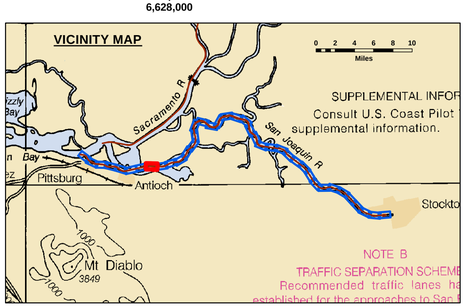
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
7 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed, or implied concerning the accuracy, completeness, readability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient fully agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

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

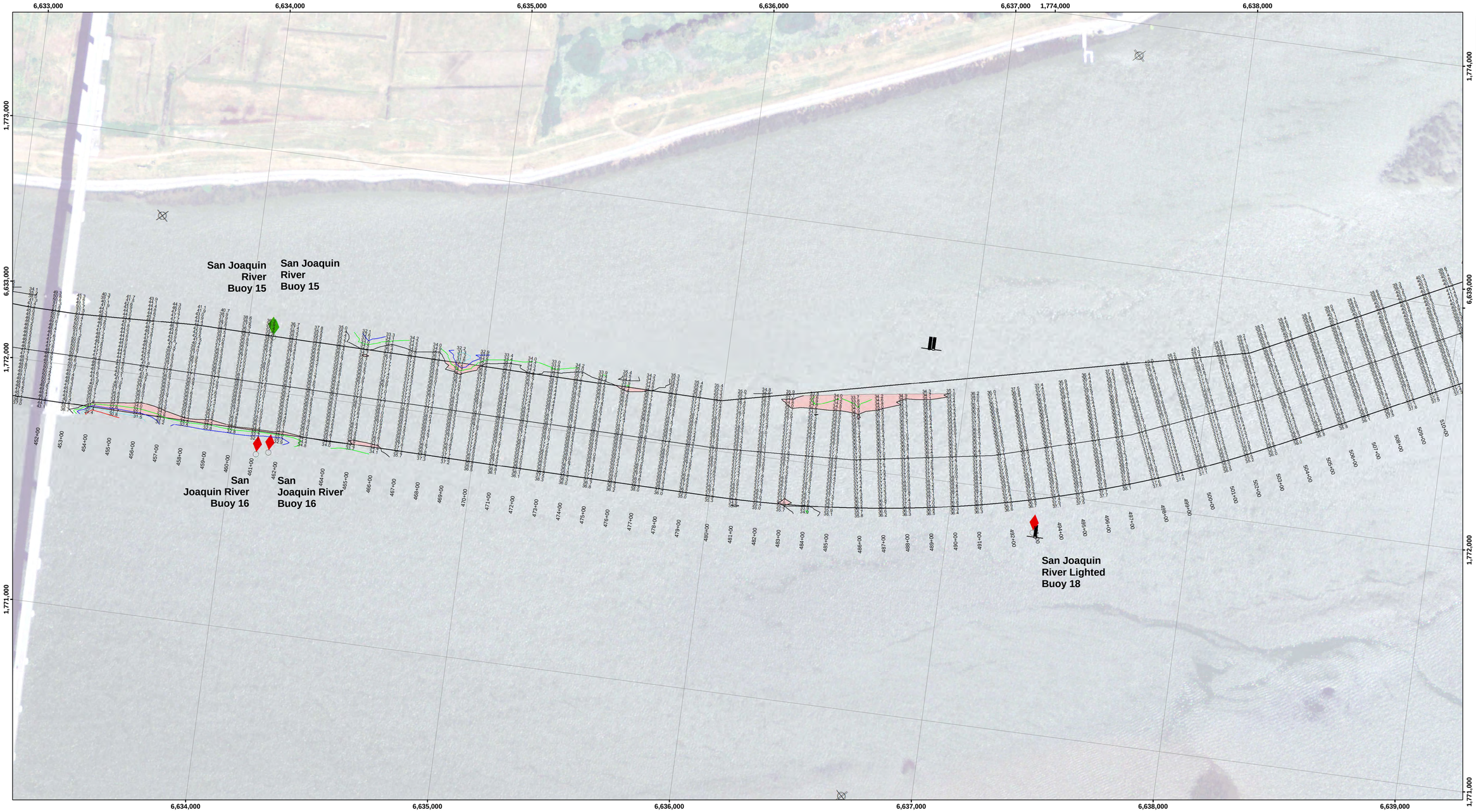
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

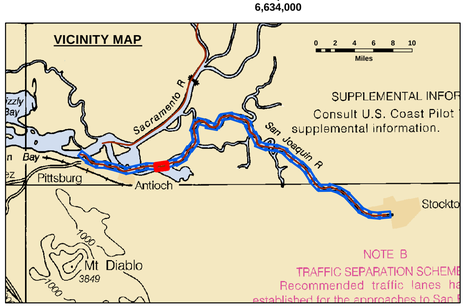
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: May 17, 2016
Designed by:
Drawn by: PDT

SAN JOAQUIN COUNTY CALIFORNIA

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
8 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated of liability for any damages resulting from any use made thereof. These data belong to the Government. Therefore the recipient may not sell or transfer these data to others. The recipient is aware that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and application. The United States shall be exonerated of liability for any damages resulting from any use or misapplication of the data for other than its intended purpose.

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

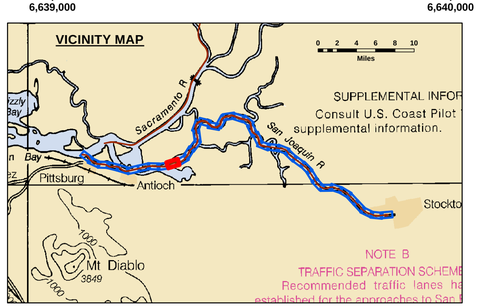
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

Surveyed By:		Chart Date:	May 17, 2016
Plotted By:	PDT	Designed by:	
Drawn by:	PDT	Checked By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
9 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to the recipient made thereof. These data belong to the Government. Therefore the recipient agrees that ownership of these data will remain with the that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection by the Hydrographic Survey Team of the US Army Corps of Engineers policy and includes the general existing conditions. As such, it is only valid for its intended use, content, time and location as specified in the data dictionary and/or the metadata. Use of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

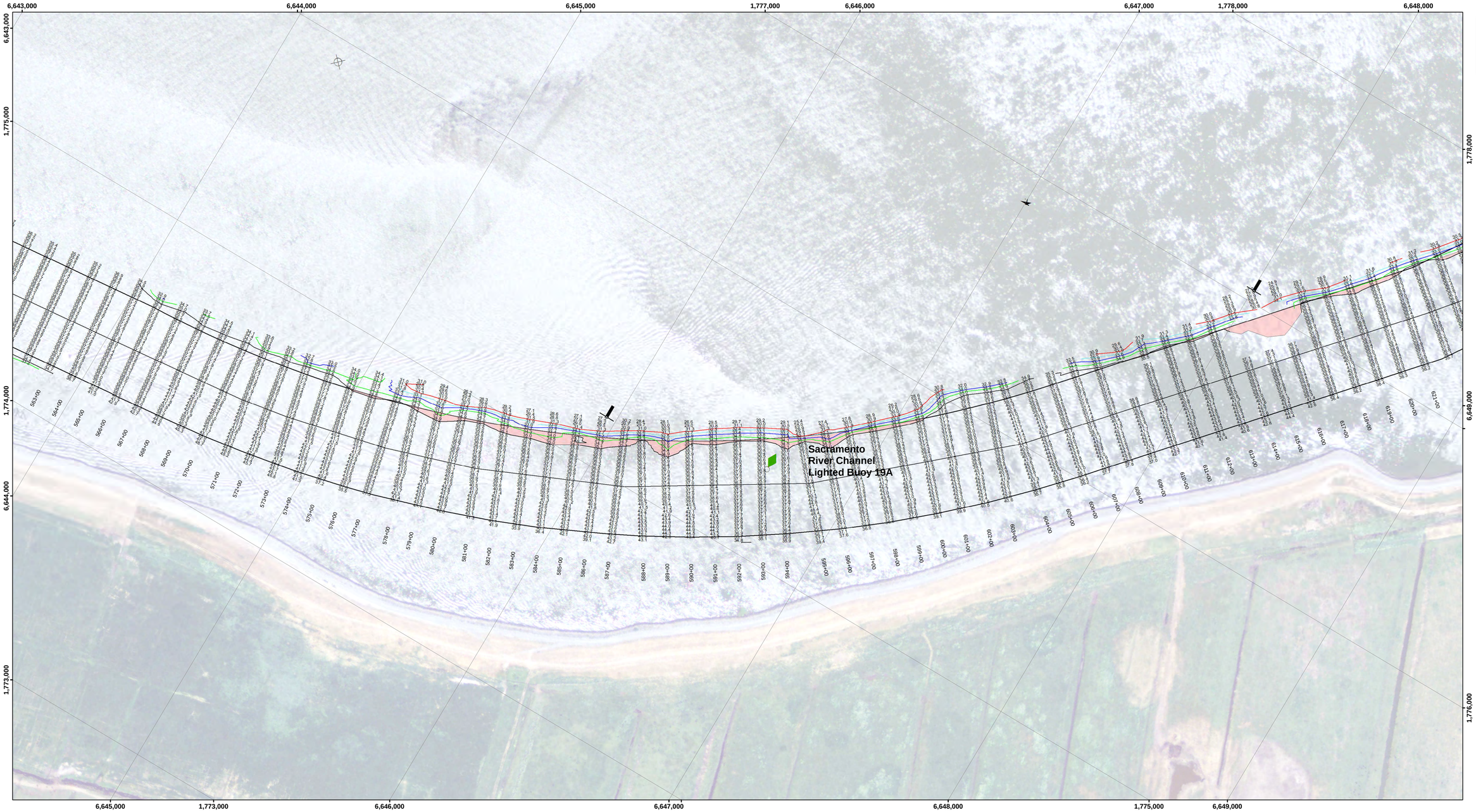
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

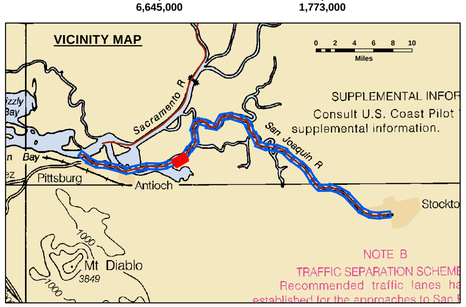
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed, or implied concerning the accuracy, completeness, readability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient fully agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

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

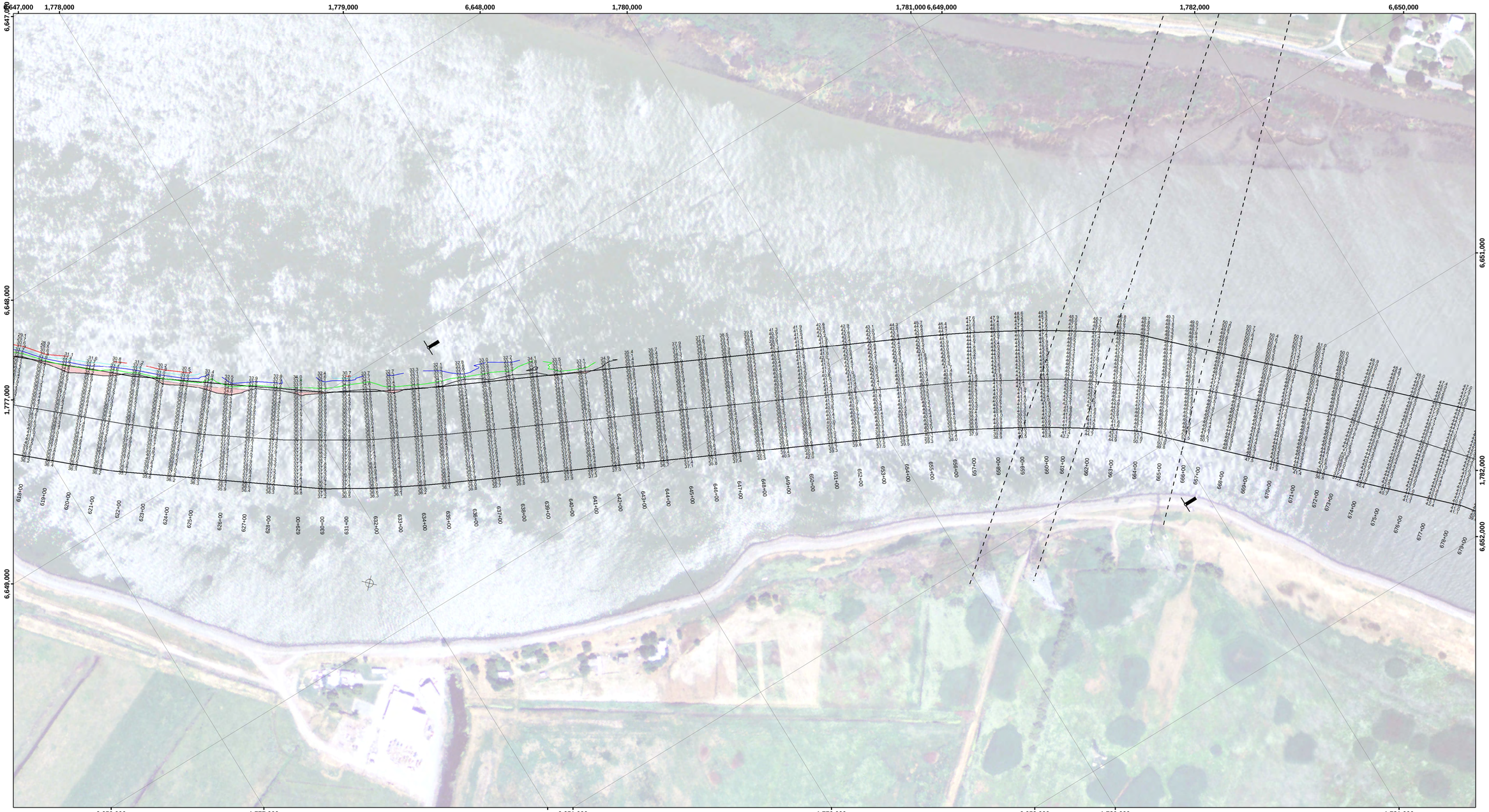
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

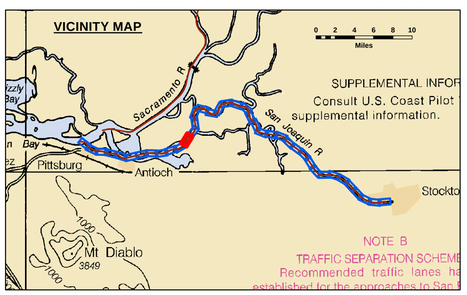
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

SAN JOAQUIN COUNTY CALIFORNIA

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT. 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT. 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any direct or indirect damages resulting from the use of the data furnished. The United States shall be held harmless from any claim or demand by the recipient or any other party for any damage or loss resulting from the application of the data for other than its intended purpose.
As such, it is only valid for its intended use, content, time and location as specified by the Corps of Engineers District, Jacksonville Engineers policy and in accordance with prevailing conditions.
of any of the application of the data for other than its intended purpose.

Distribution Liability: The data represents the results of data collection and analysis performed by the Corps of Engineers and is subject to change without notice.
These data to others without also transferring this Disclaimer.

Chart Date: May 17, 2016

Surveyed By:	
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

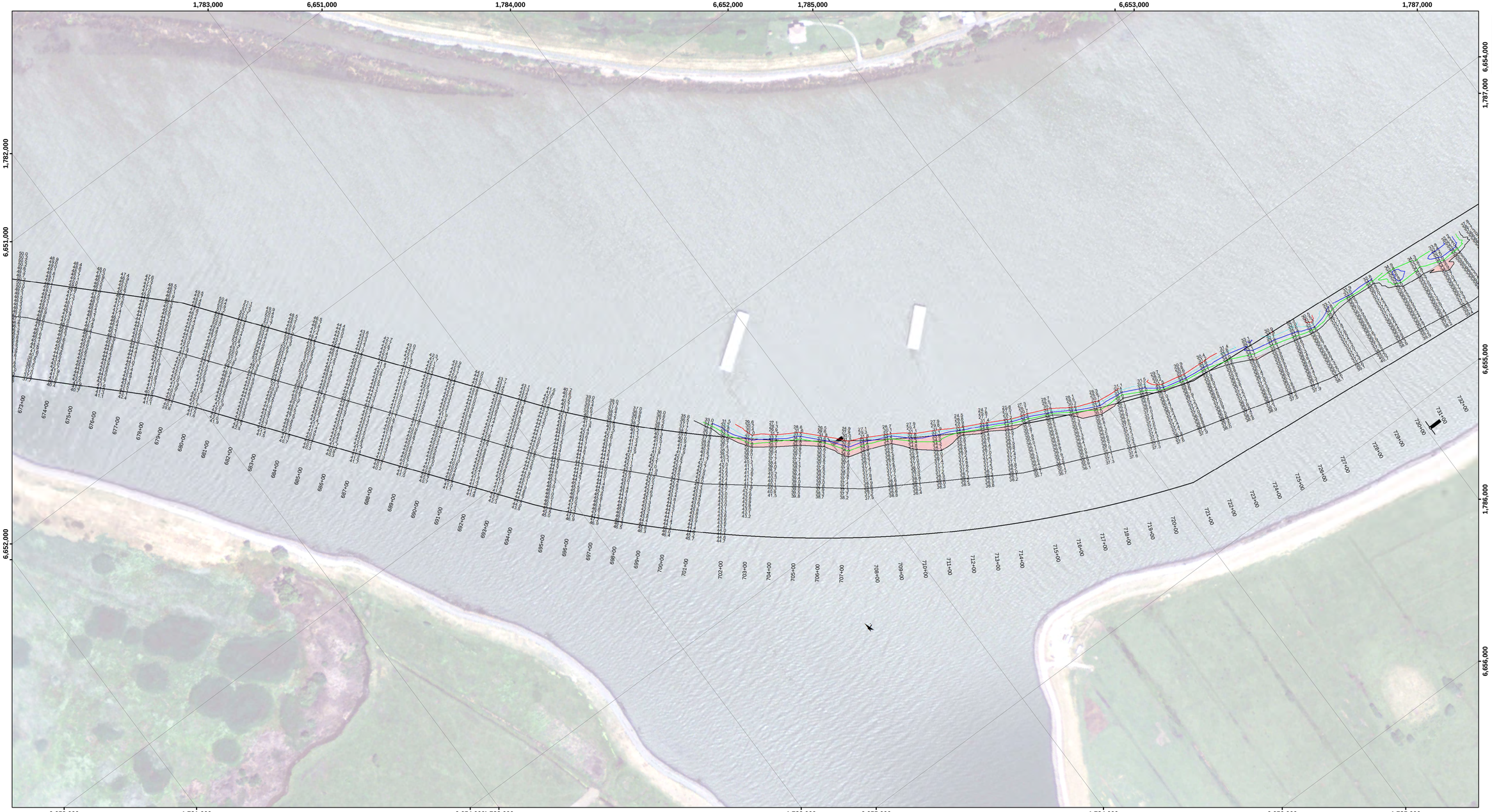
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

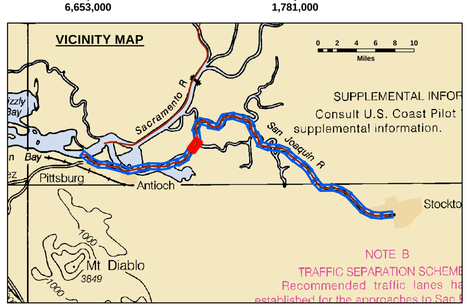
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any damages or injuries incurred by the recipient or third parties arising from or connected with the use made thereof. These data belong to the Government. Therefore the recipient shall not represent to others that it is its own data or that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection by the Jacksonville District, US Army Corps of Engineers survey and is subject to general existing conditions. As such, it is only valid for its intended use, content, time and location specified in the data set. Jacksonville Engineer District is not responsible for any damages of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
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

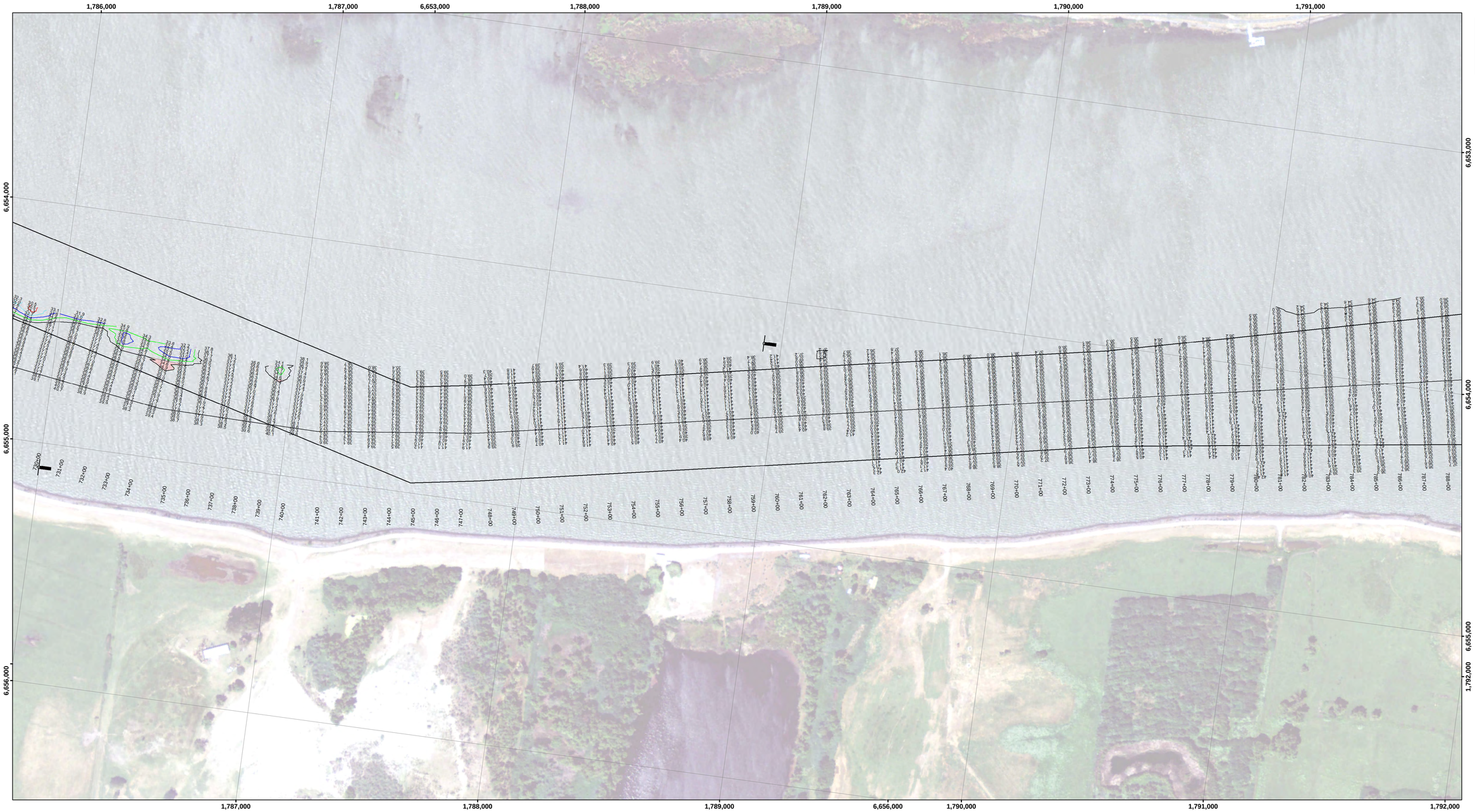
Approved: _____
Chief, Construction Branch

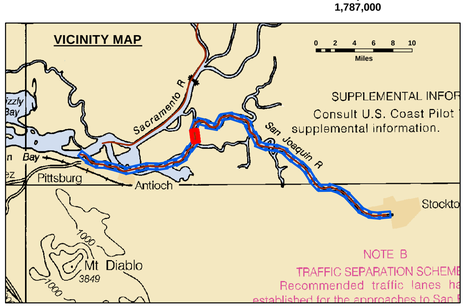
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any injuries or damages resulting from or made thereof. These data belong to the Government. Therefore the recipient may not sell these data to others for profit or any other use that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location specified by the data originator. The data originator shall be exonerated from any liability for any injuries or damages resulting from or made thereof. These data belong to the Government. Therefore the recipient may not sell these data to others for profit or any other use that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

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

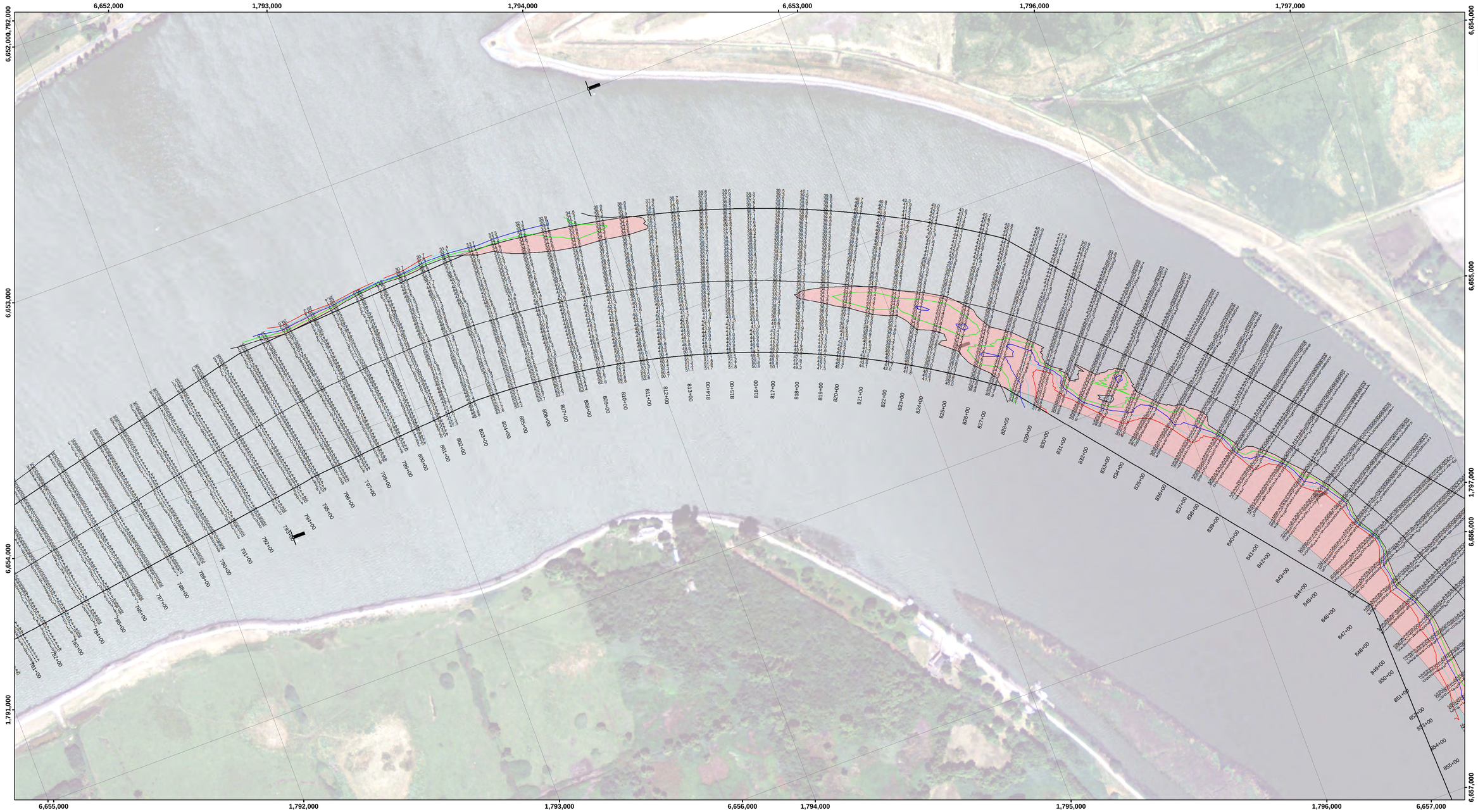
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

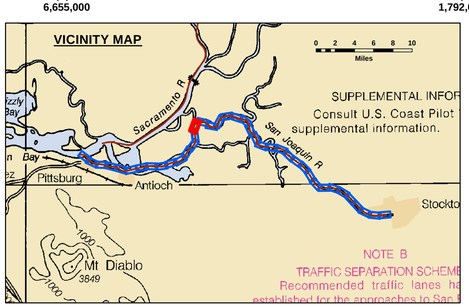
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage resulting from use made thereof. These data belong to the Government. Therefore the recipient may not sell or otherwise transfer these data to others. The recipient agrees that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition using standard procedures of the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and conditions of data acquisition. The Government assumes no liability of any of the application of the data for other than its intended purpose.

Surveyed By:		Chart Date:	May 17, 2016
Plotted By:	PDT	Designed by:	
Checked By:	PDT	Drawn by:	PDT

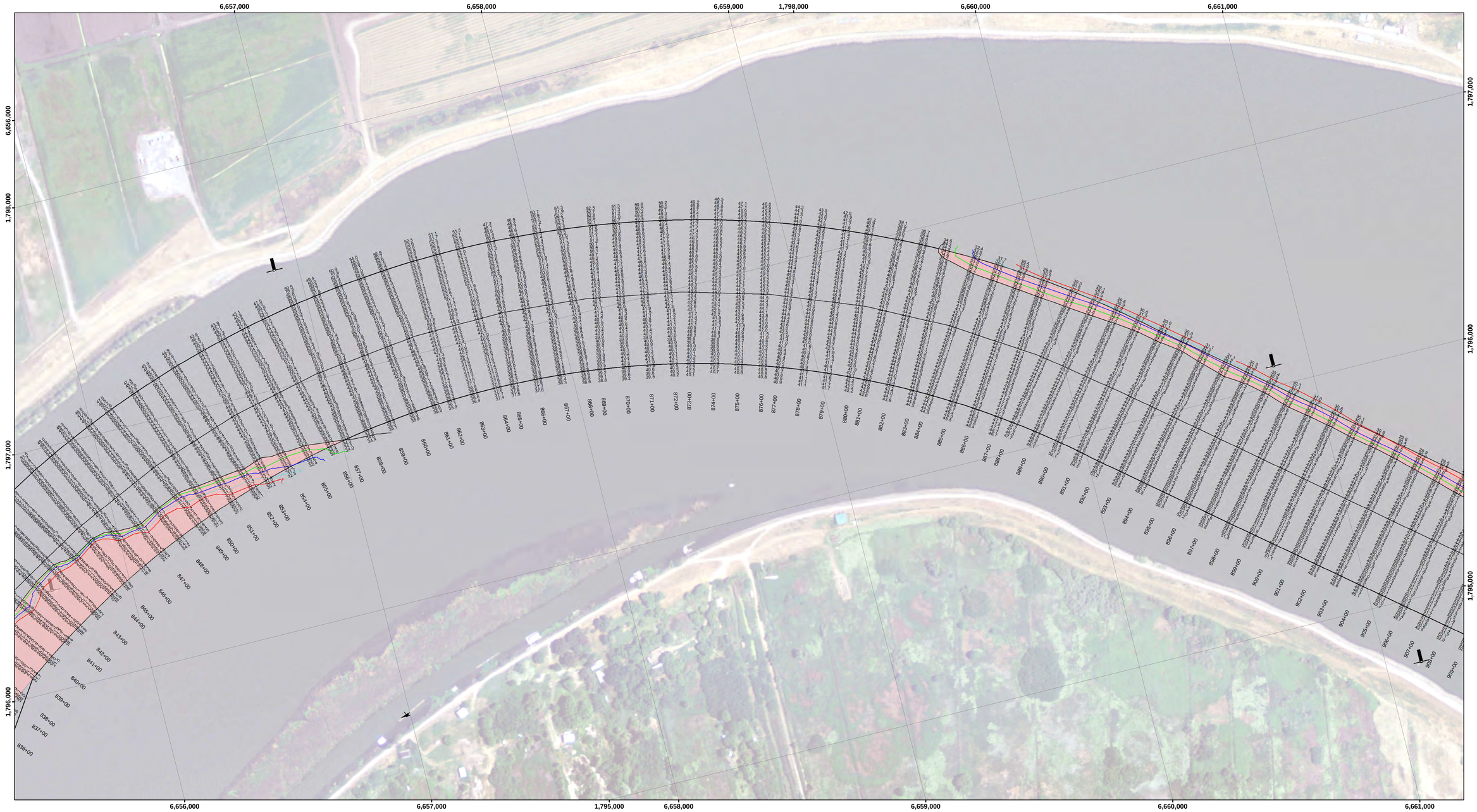
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E. DISTRICT ENGINEER

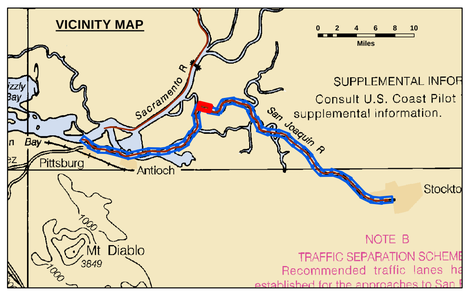
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
15 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition by the US Government and is provided to the Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and application. Modification of the data by others invalidates it for use of any of the application of the data for other than its intended purpose.

Chart Date: May 17, 2016

Surveyed By:	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

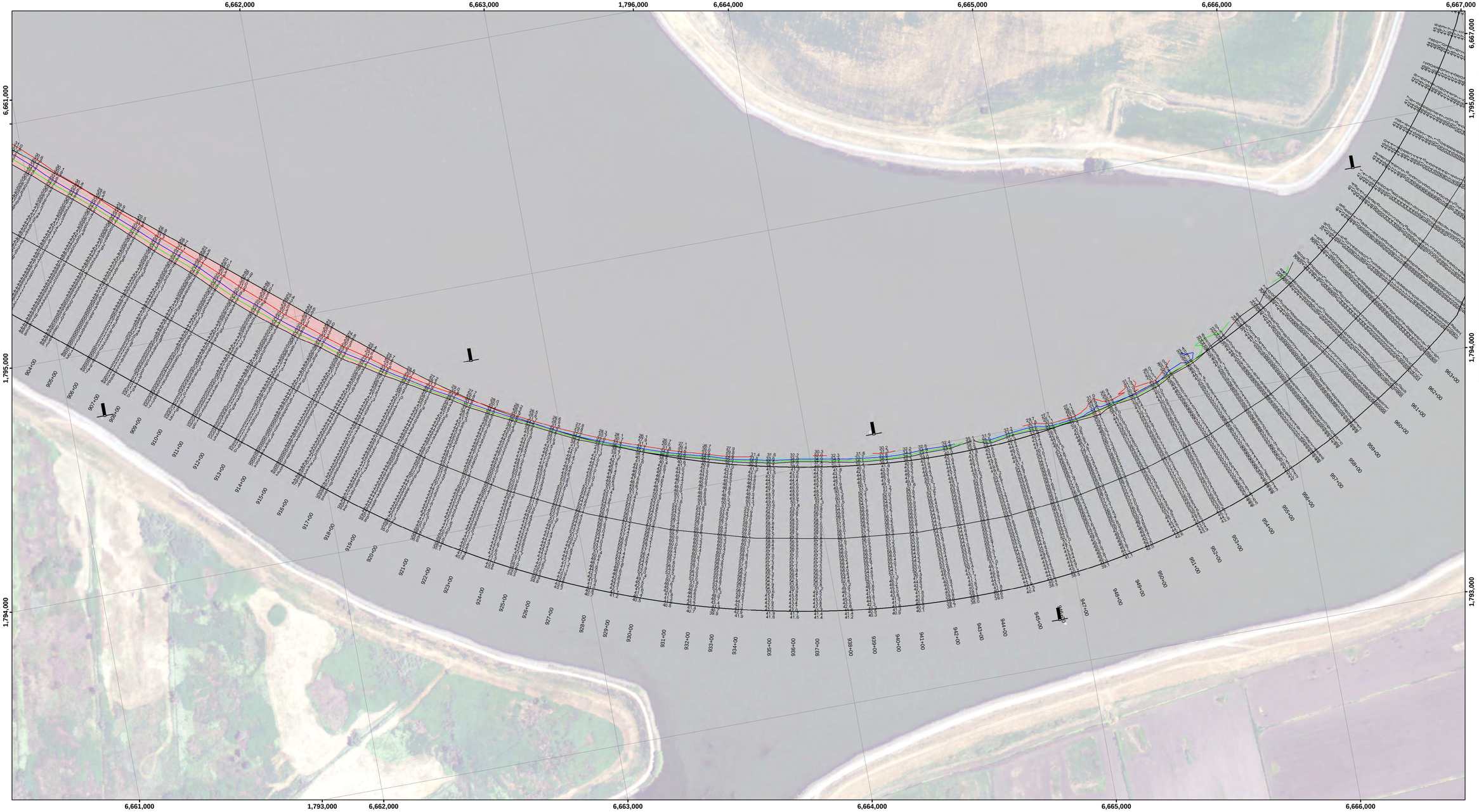
Approved
Chief, Construction Branch

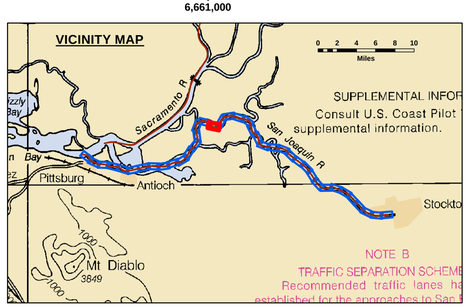
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
16 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any damages suffered as a result of any use made thereof. These data belong to the Government. Therefore the recipient shall not transfer these data to any other party without informing that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location. The Government shall not be responsible for any damages of any of the application of the data for other than its intended purpose.

Chart Date:	May 17, 2016
Surveyed By:	
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

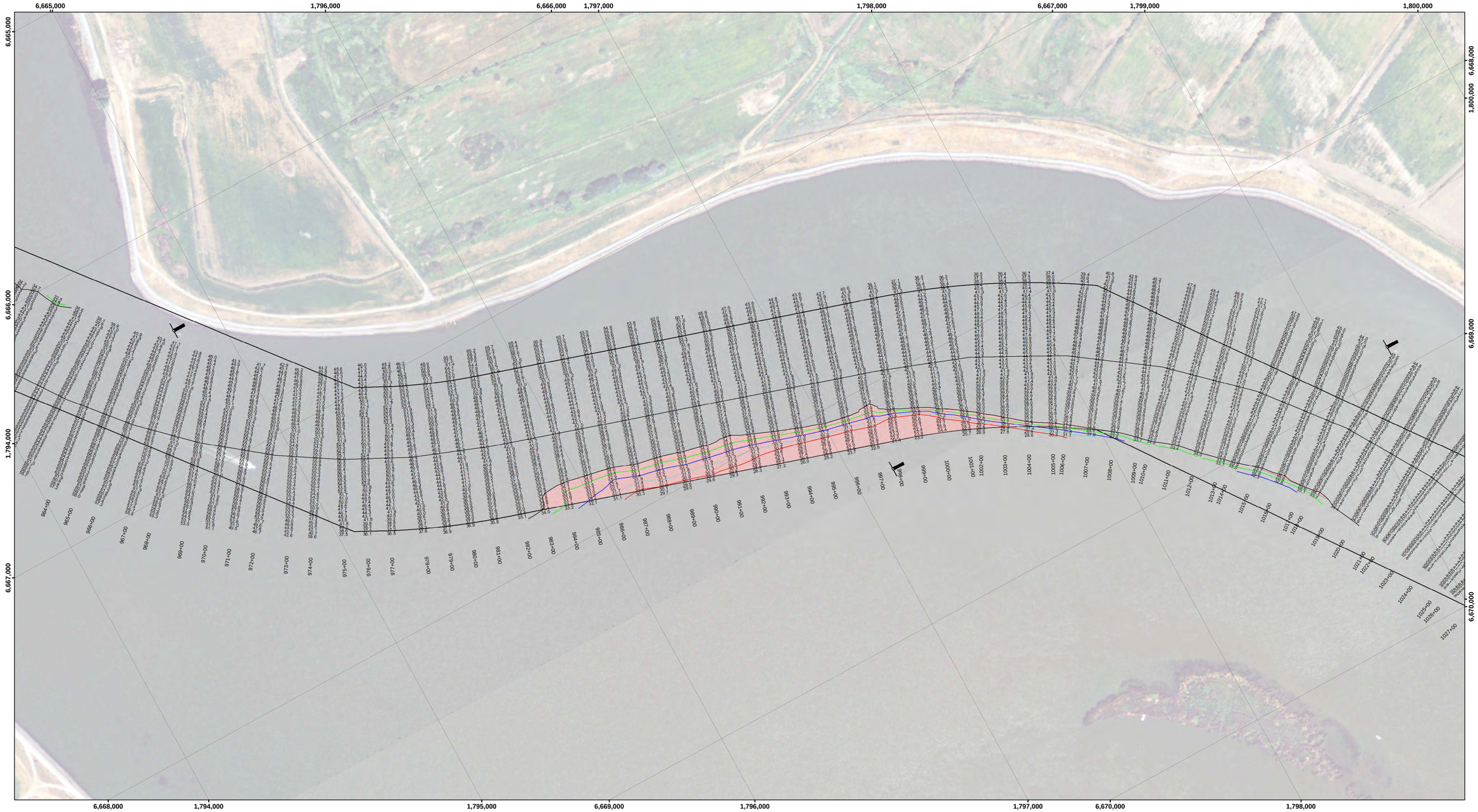
Approved
Chief, Construction Branch

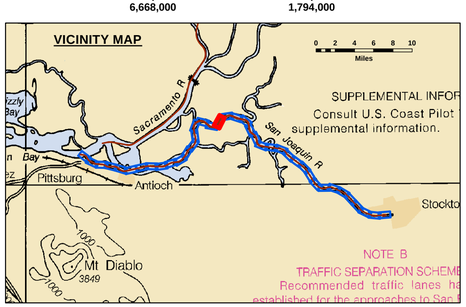
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
17 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to any party made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer. The data represents the results of data collection and analysis performed by the Sacramento District, US Army Corps of Engineers policy and in accordance with generally existing conditions. As such, it is only valid for its intended use, content, time and resolution for which it was intended. The Government shall be exonerated from any liability for any loss or damage to any party as a result of any of the application of the data for other than its intended purpose.

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

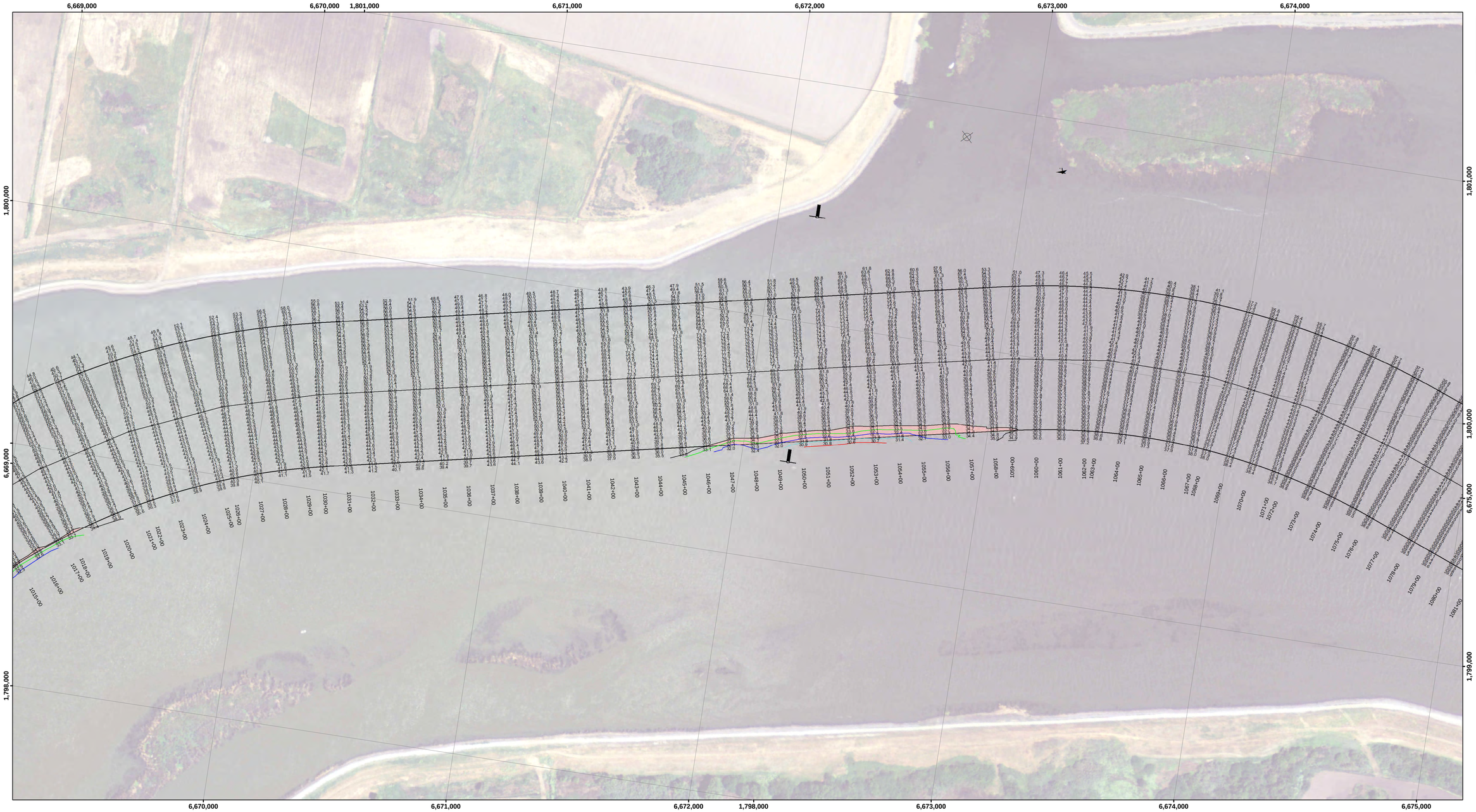
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

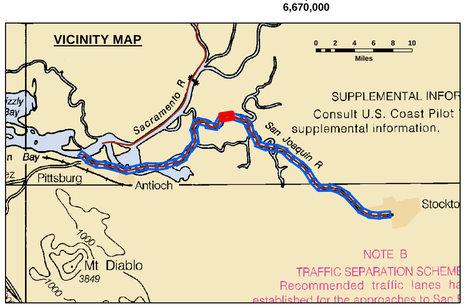
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from use made thereof. These data belong to the Government. Therefore the recipient agrees not to transfer these data to others without informing that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability. The data represents the results of data collection and analysis performed by the U.S. Army Corps of Engineers policy and in accordance the governing conditions. As such, it is only valid for its intended use, content, time and location of the original data. The Government disclaims all liability of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

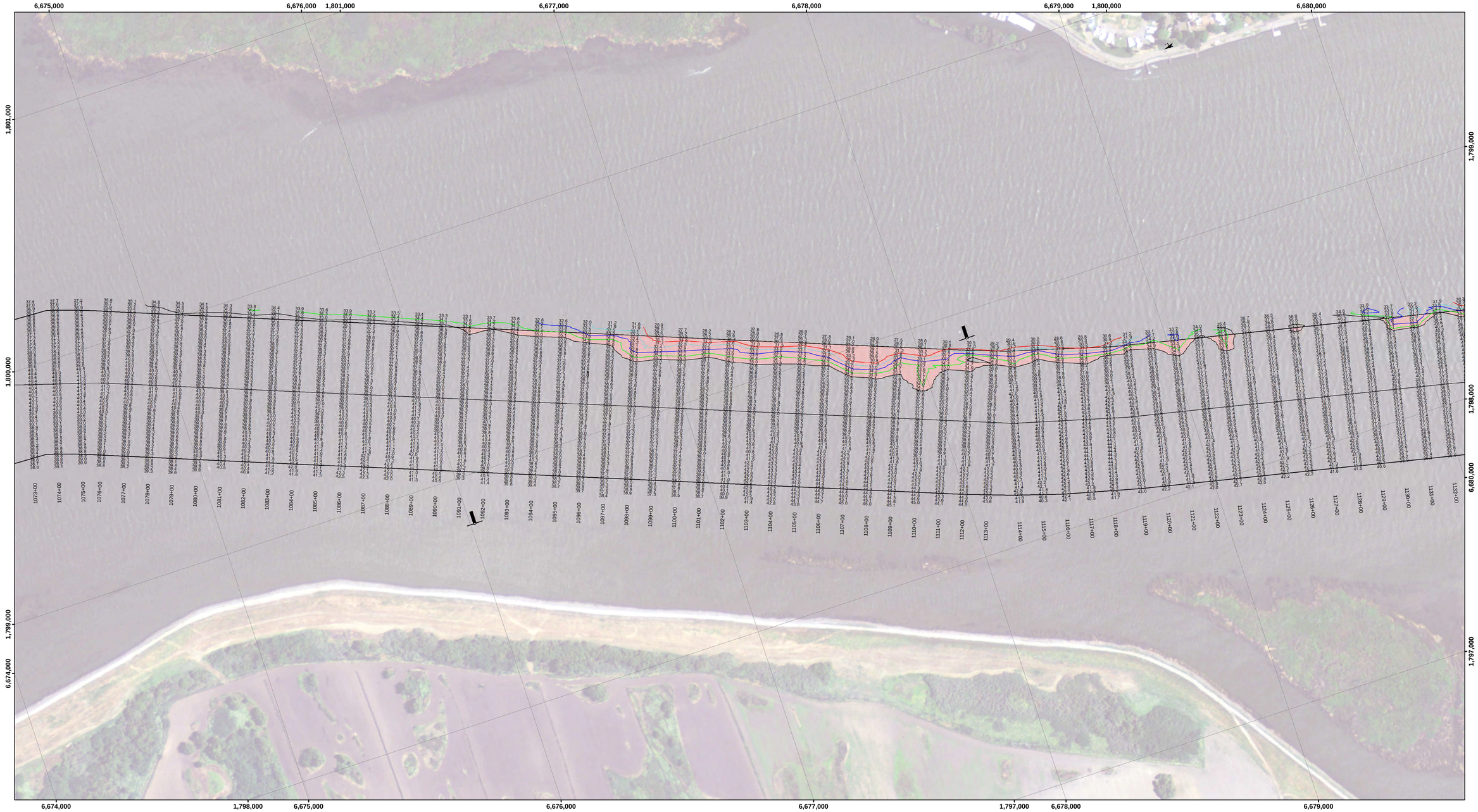
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E. DISTRICT ENGINEER

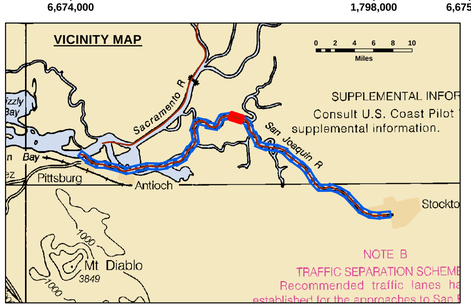
Submitted: Hydro Survey Team Leader
Recommended: Chief Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
19 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be held harmless from any liability which may accrue from any use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location specified in the data set. The United States shall be held harmless of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

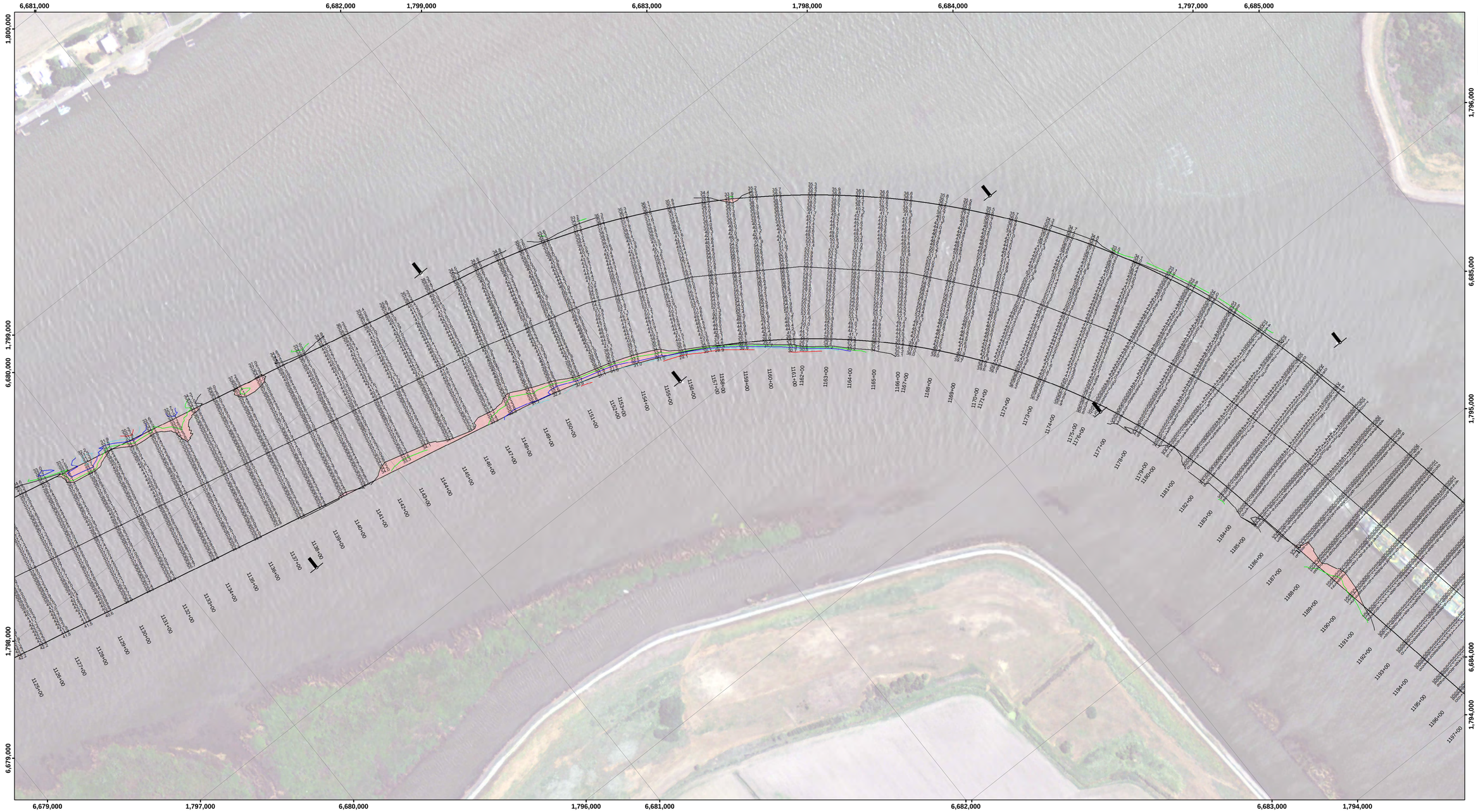
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E. DISTRICT ENGINEER

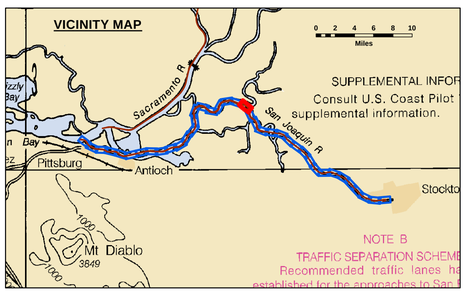
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
20 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collected by the Sacramento District of the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and accuracy. Reproduction and distribution is restricted by law and of any of the application of the data for other than its intended purpose. The recipient may not transfer these data to others without also transferring this Disclaimer.

Surveyed By:	Plotted By: PDT	Checked By: PDT	Chart Date: May 17, 2016
	Designed by:		
	Drawn by: PDT		

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

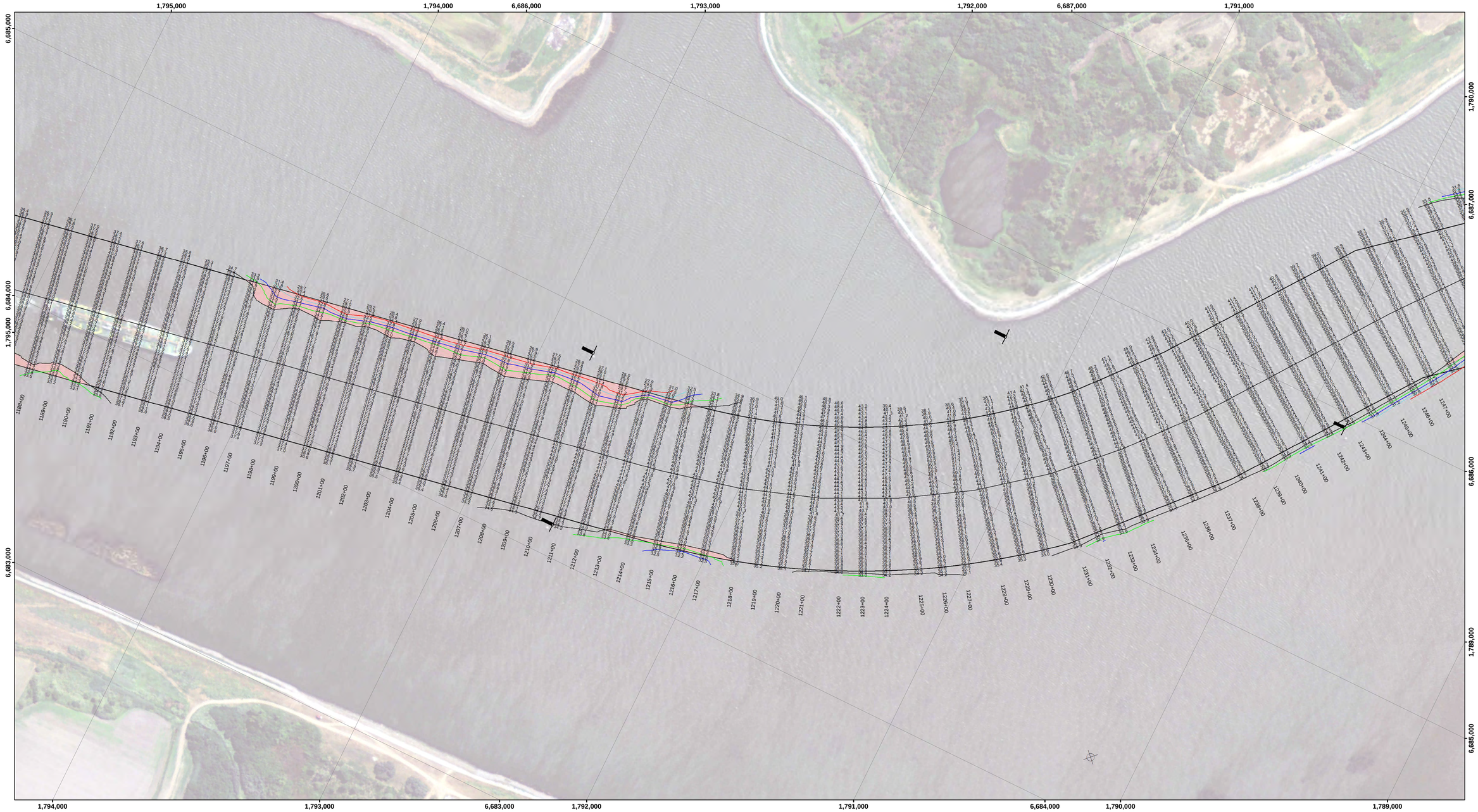
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

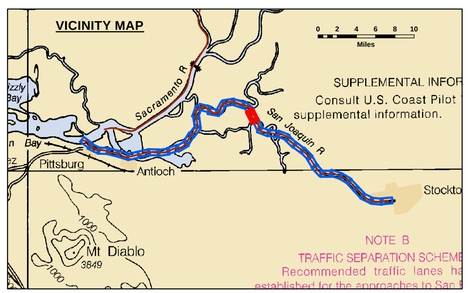
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with generally existing conditions. As such, it is only valid for its intended use, content, time and application. The Government makes no warranties, expressed or implied, as to the suitability of the data for any other purpose or the validity of any of the application of the data for other than its intended purpose.

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any injury or loss resulting from the use made thereof. These data belong to the Government. Therefore the recipient agrees not to transfer these data to any other party unless that Government-provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Surveyed By:	Chart Date: May 17, 2016
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

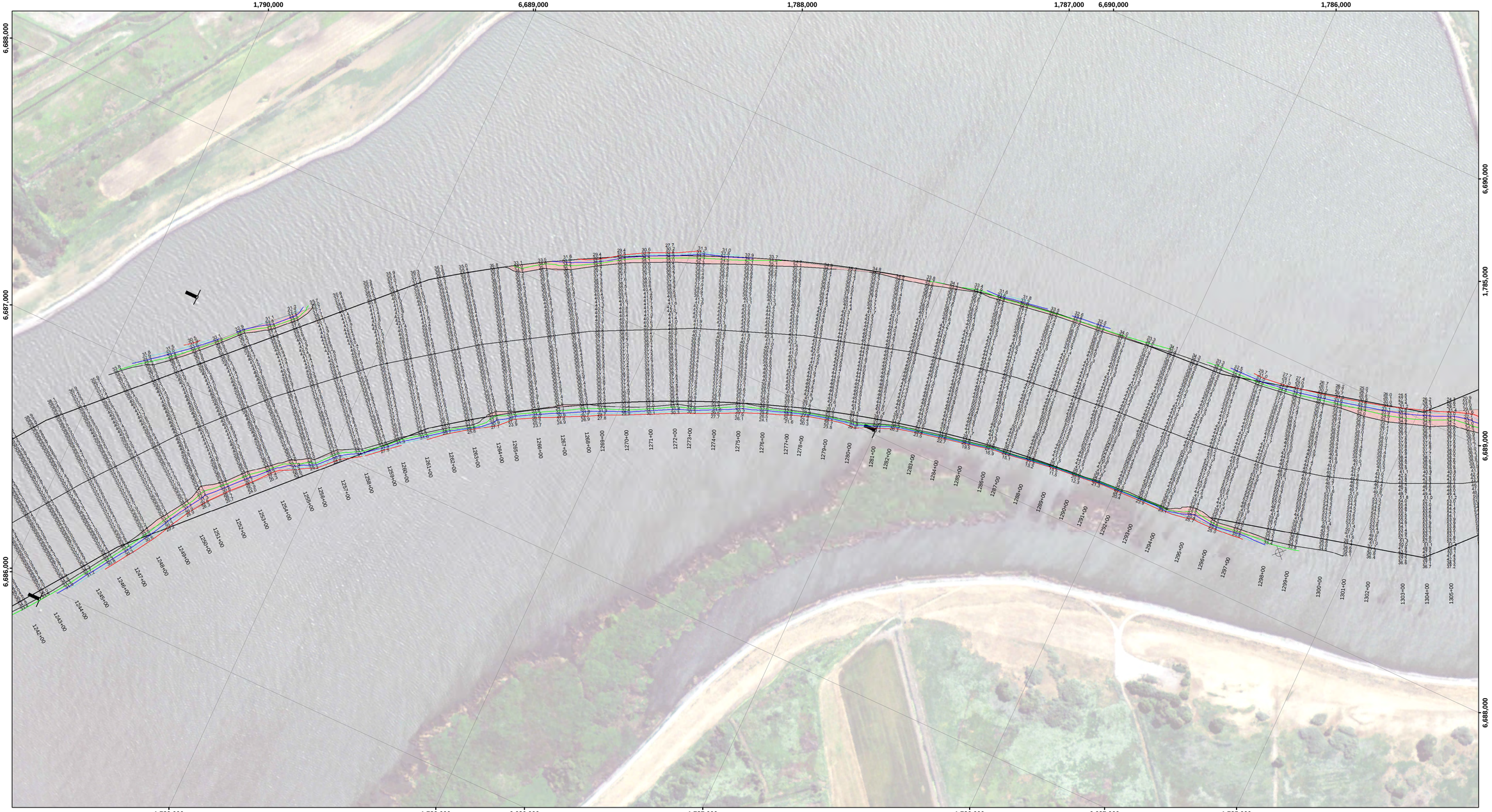
Approved
Chief, Construction Branch

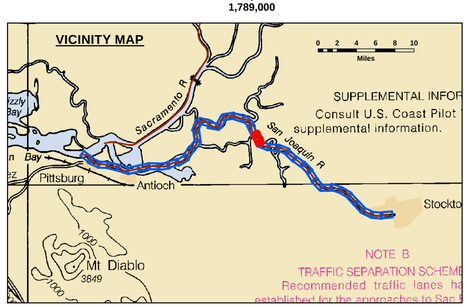
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to the recipient or any other party resulting from the use of the data furnished or any reuse thereof. These data belong to the Government. Therefore the recipient agrees to indemnify the Government from any liability that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data gathered by the Sacramento District, US Army Corps of Engineers survey and is subject to prevailing existing conditions. As such, it is only valid for its intended use, content, time and location as specified by the Sacramento District. Therefore, the use of any of the application of the data for other than its intended purpose.

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

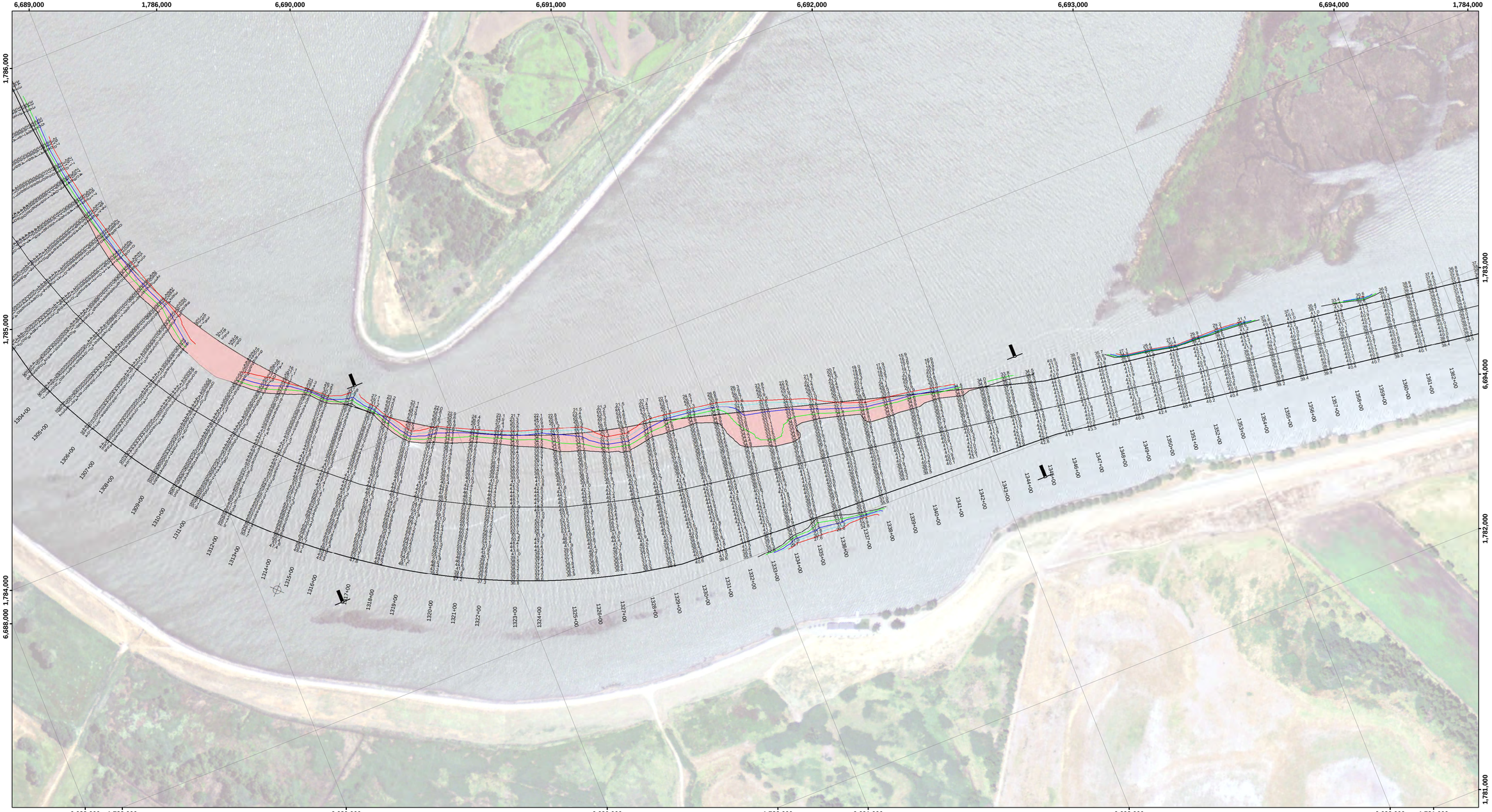
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

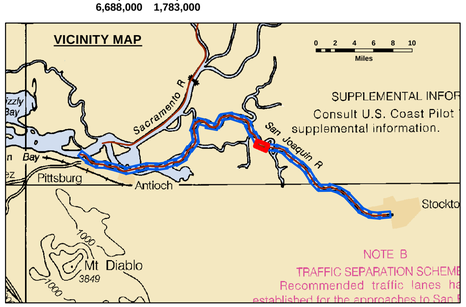
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
23 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed, or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient fully agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
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

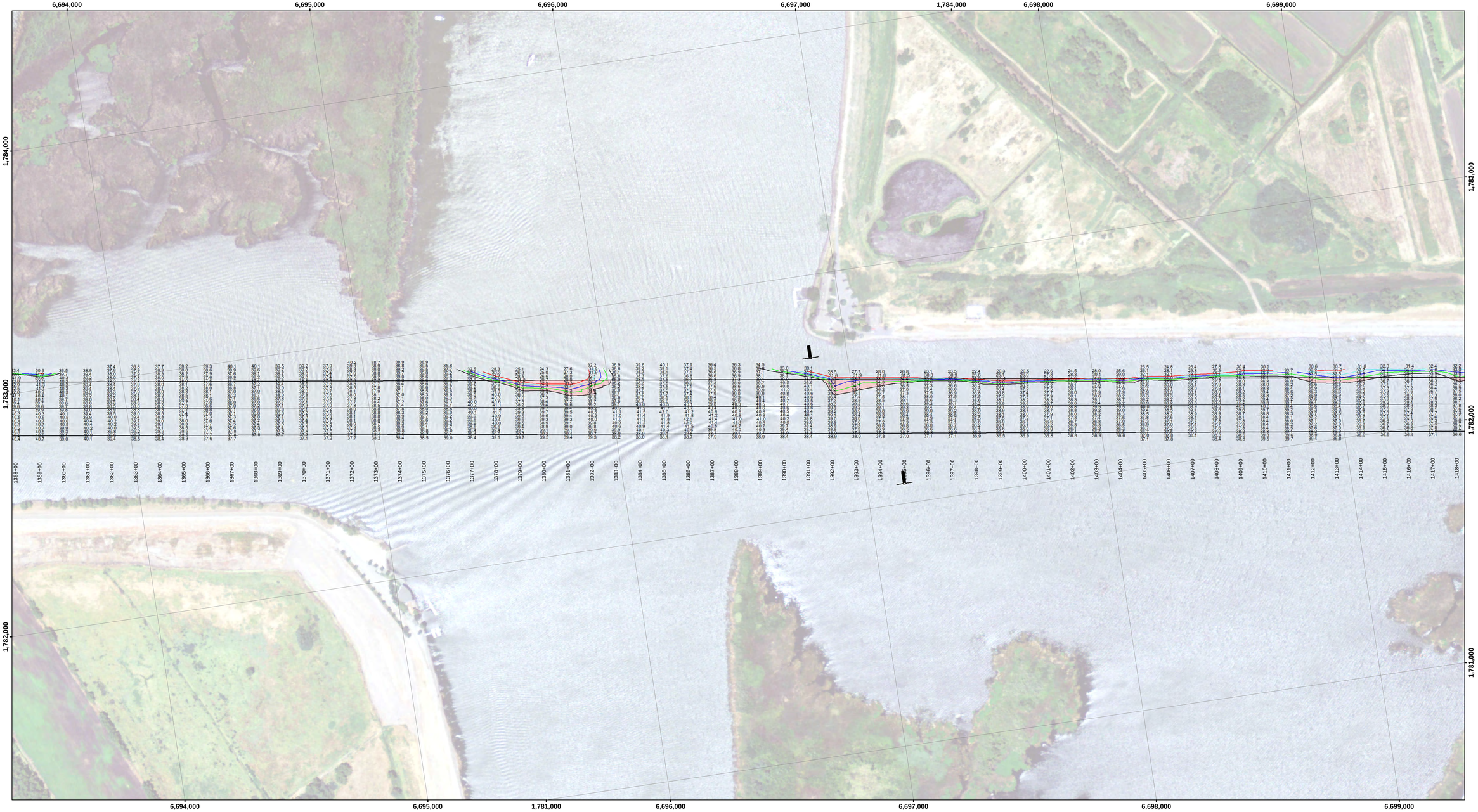
Recommended:
Chief, Hydro Survey Section

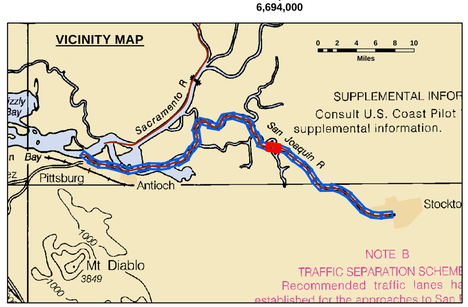
Approved:
Chief, Construction Branch

SAN JOAQUIN COUNTY CALIFORNIA

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed, or implied concerning the accuracy, completeness, readability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient fully agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

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

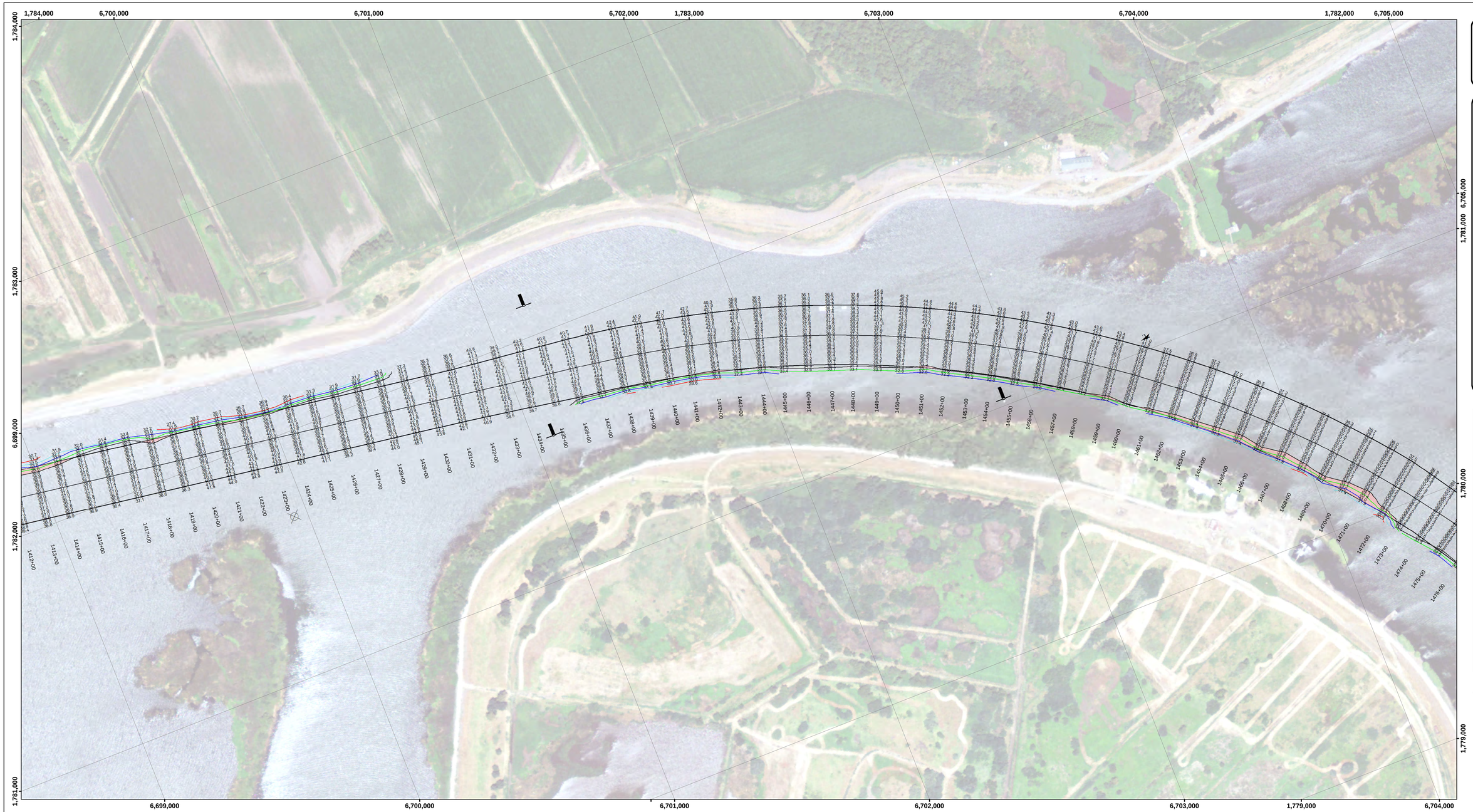
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

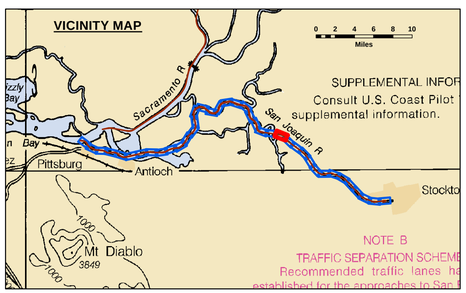
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: May 17, 2016
Designed by:
Drawn by: PDT

SAN JOAQUIN COUNTY CALIFORNIA

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to any party made thereof. These data belong to the Government. Therefore the recipient may not sell or otherwise distribute these data to others. Note that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition and processing conducted by the US Army Corps of Engineers policy and in accordance with generally existing conditions. As such, it is only valid for its intended use, content, time and conditions of acquisition and processing. No other use is authorized, and no other use or reuse of the data is authorized without the express permission of any of the application of the data for other than its intended purpose.

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

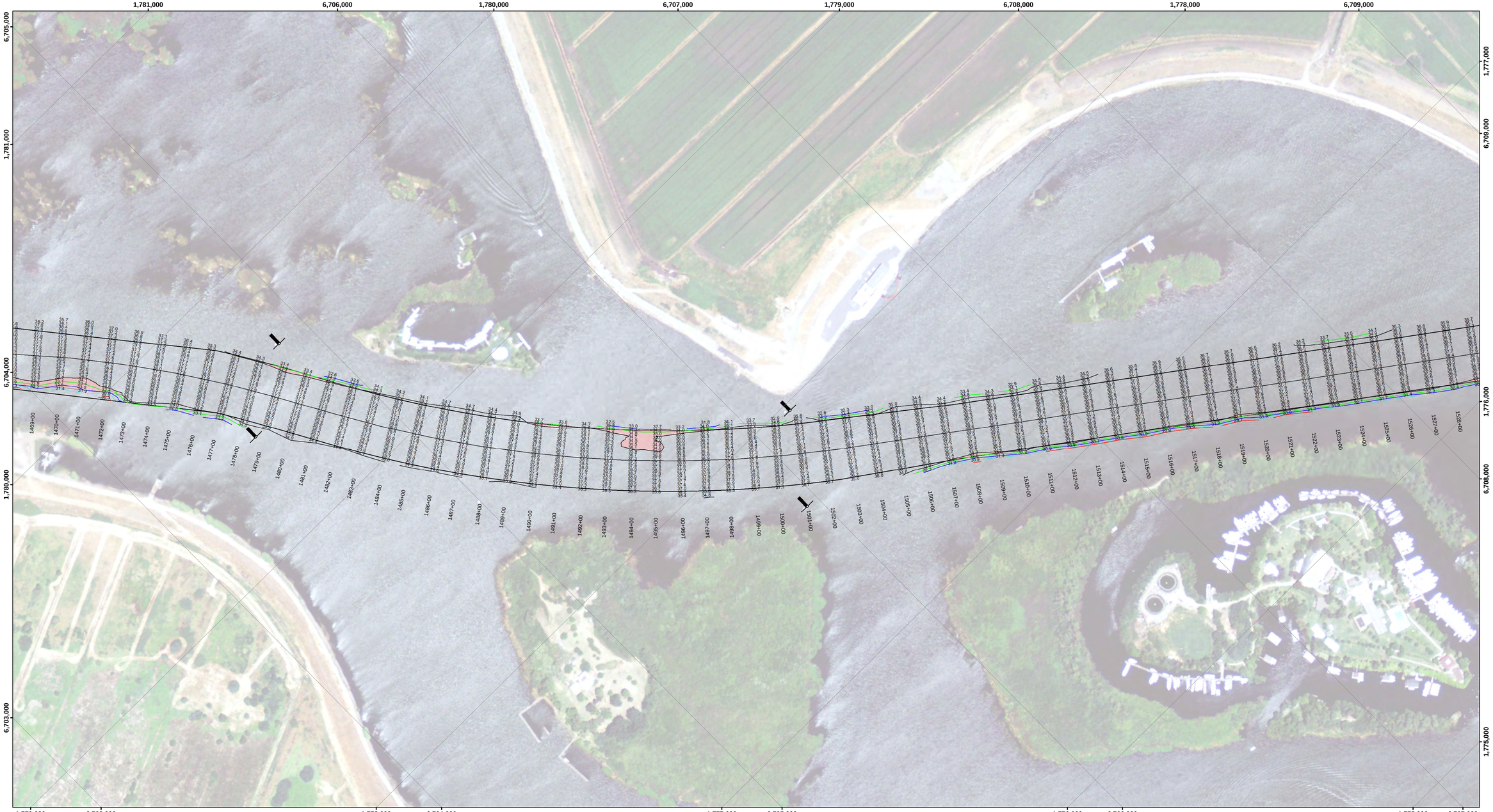
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

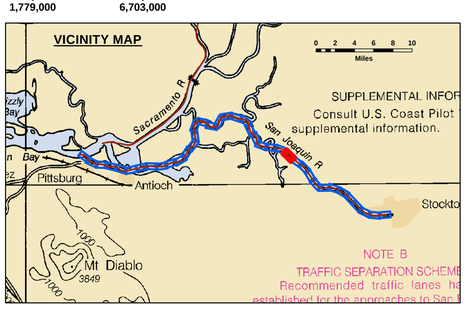
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
26 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated of any responsibility for any loss or damage to persons made thereof. These data belong to the Government. Therefore the recipient shall not represent to others that it is the owner of the data or that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location specified in the data set. Modification by third parties, aging of the data, or application of the data for other than its intended purpose, of any of the application of the data for other than its intended purpose.

Surveyed By:		Chart Date: May 17, 2016	
Plotted By: PDT		Designed by:	
Checked By: PDT		Drawn by: PDT	

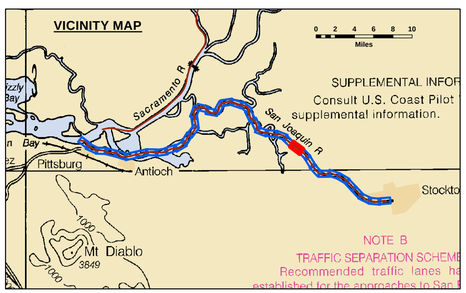
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E. DISTRICT ENGINEER

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

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from any liability for any loss, damage or injury resulting from use made thereof. These data belong to the Government. Therefore the recipient agrees to make no commercial use of these data or to transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collected by the Corps of Engineers and is subject to the Corps of Engineers policy and is subject to prevailing conditions. As such, it is only valid for its intended use, content, time and location of the original data collection. The Corps of Engineers shall not be liable for any loss, damage or injury resulting from the application of any of the data for other than its intended purpose.

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

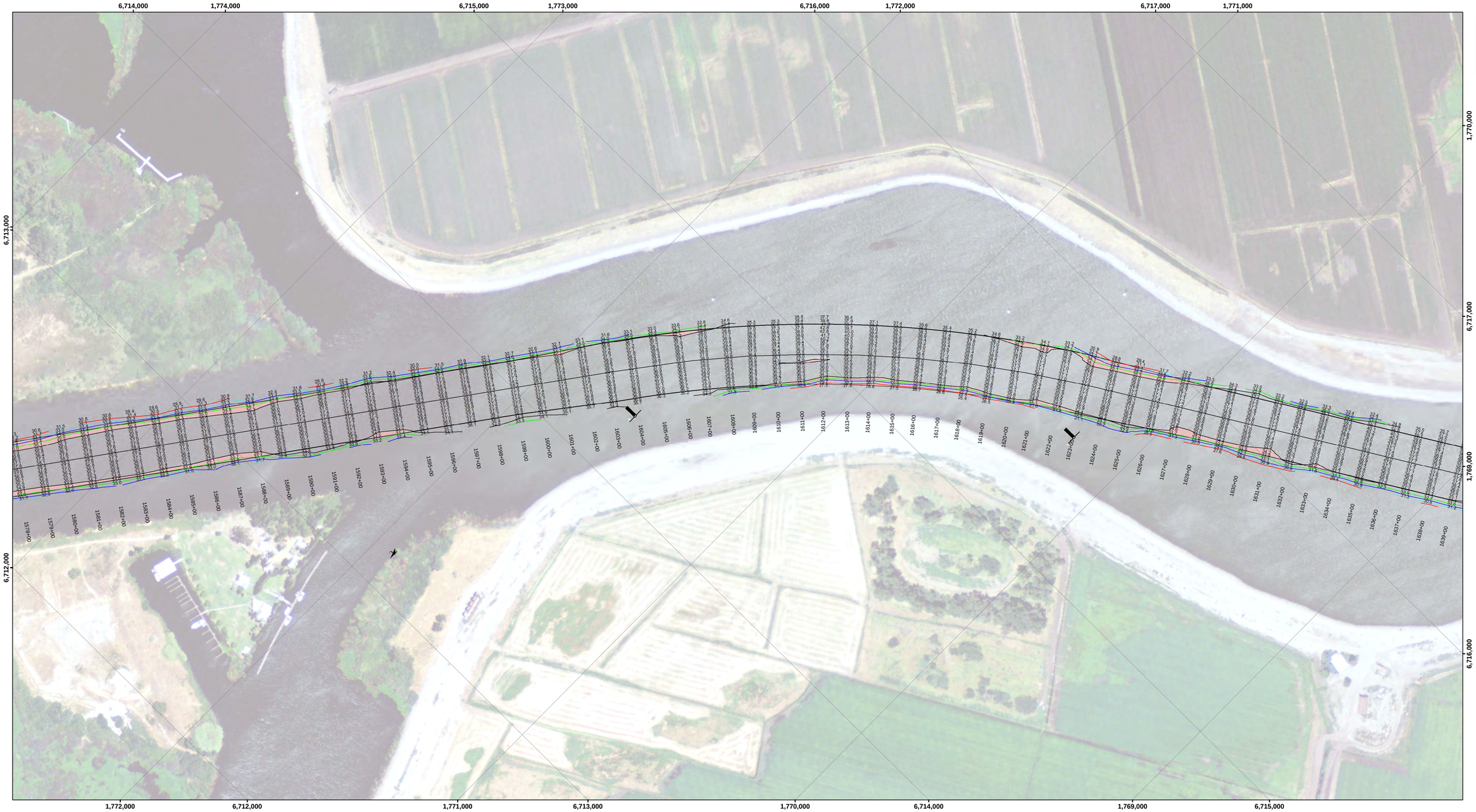
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

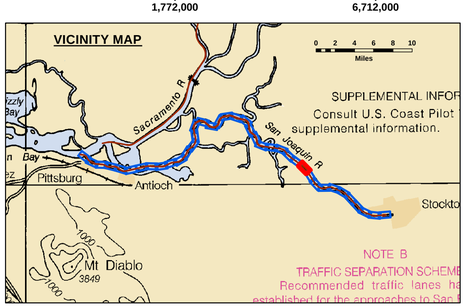
Surveyed By:
Plotted By: PDT
Checked By: PDT
Chart Date: May 17, 2016
Designed by:
Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
28 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to any party made thereof. These data belong to the Government. Therefore the recipient may not sell or transfer these data to any other party or other than Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition and processing conducted by the US Army Corps of Engineers policy and in accordance the general existing conditions. As such, it is only valid for its intended use, content, time and conditions for which it was collected. Any other use or application is the responsibility of the user and shall be at the user's own risk. The Government assumes no liability for any other than its intended purpose of any of the application of the data for other than its intended purpose.

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

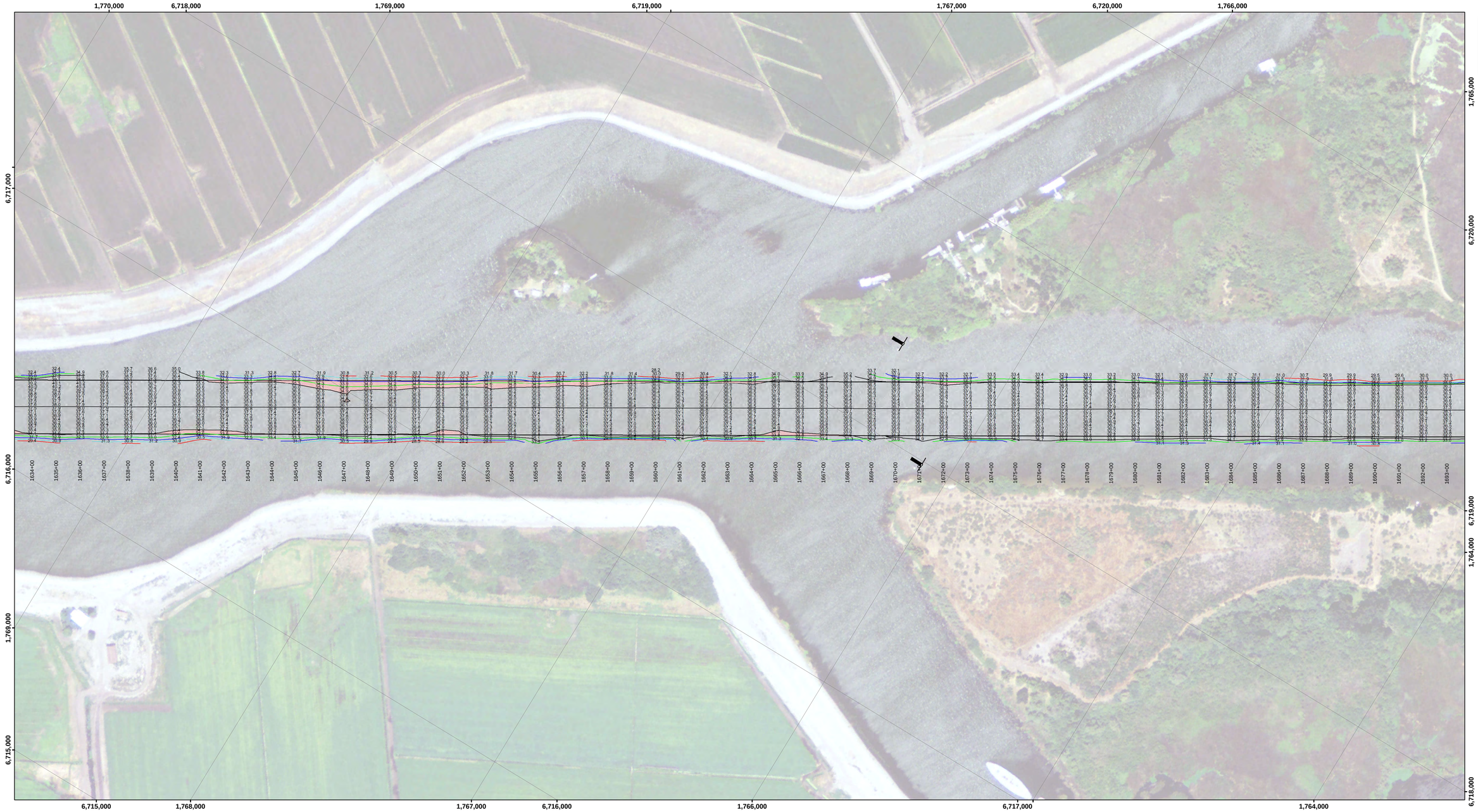
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

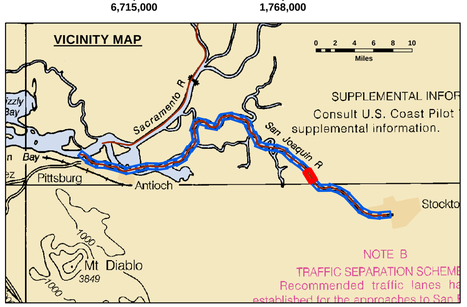
Surveyed By: Chart Date: May 17, 2016
Plotted By: PDT Designed by:
Checked By: PDT Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
29 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to any party made thereof. These data belong to the Government. Therefore the recipient may not sell or transfer these data to any other party. It is the responsibility of the recipient to inform any third party that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collected by the Hydrographic Surveys Section, US Army Corps of Engineers policy and in accordance the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy. Any other use or application of the data is the sole responsibility of any party that uses the data for other than its intended purpose. The Government shall not be liable for any loss or damage as a result of any of the application of the data for other than its intended purpose.

Surveyed By:
Chart Date: May 17, 2016
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

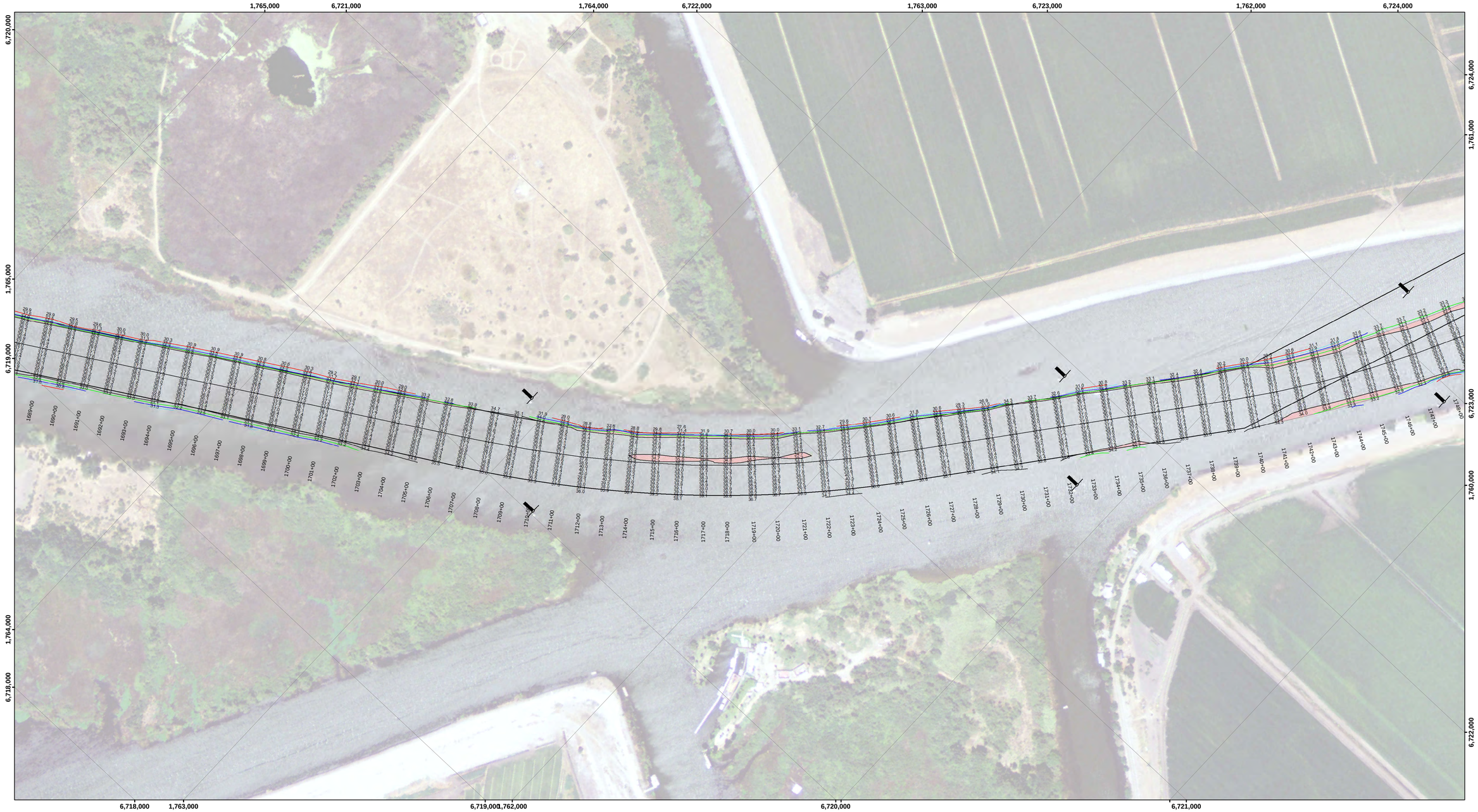
Recommended
Chief, Hydro Survey Section

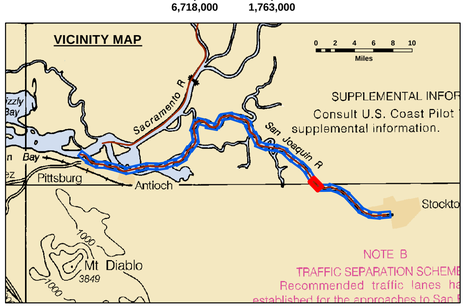
Approved
Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exempt from all liability for any loss, injury or damage resulting from use made thereof. These data belong to the Government. Therefore the recipient agrees that any information derived from these data will be used under Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location of the original survey. Data is furnished 'as-is' and is subject to change. The Government assumes no liability for any misuse of any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
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

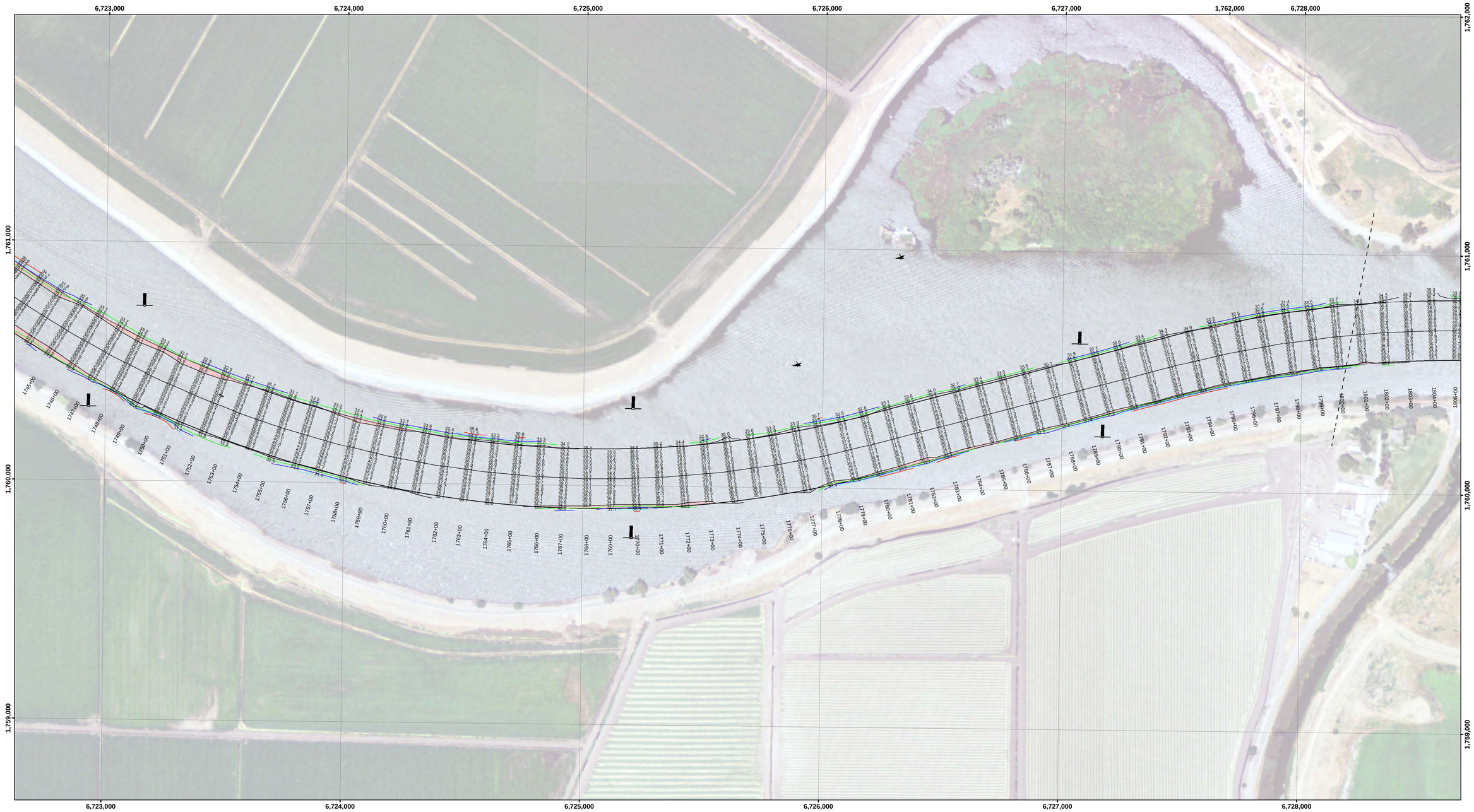
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

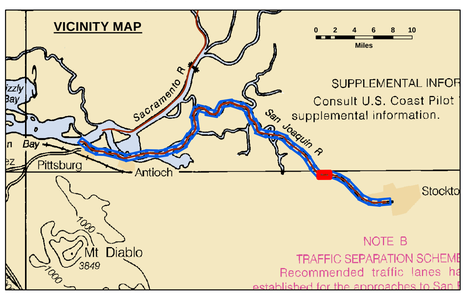
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage resulting from use made thereof. These data belong to the Government. Therefore the recipient agrees to return to the Government upon request, or to notify that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with generally existing conditions. As such, it is only valid for its intended use, content, time and application. Modification of the data by any other party invalidates this data and any application of the data for other than its intended purpose.

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

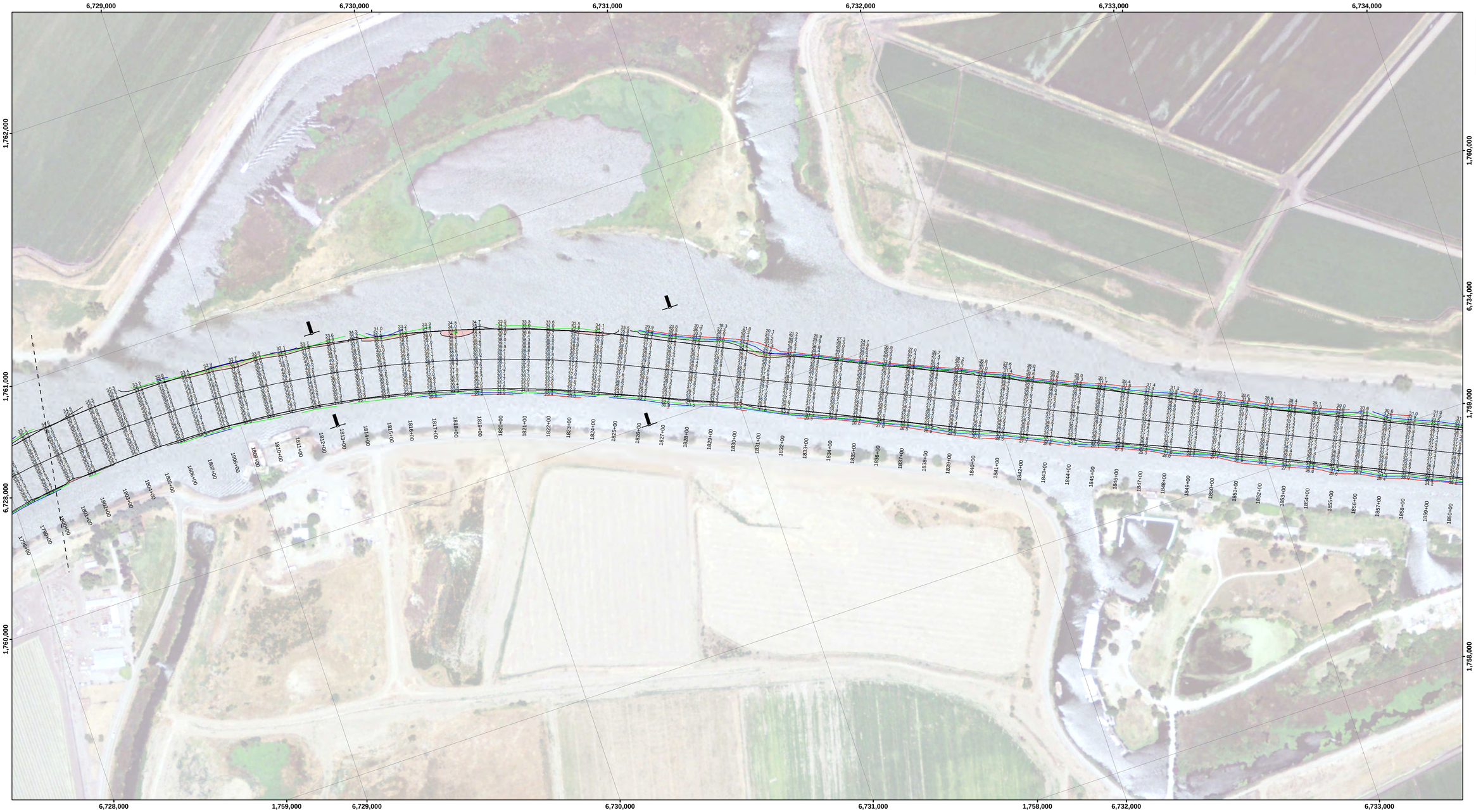
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

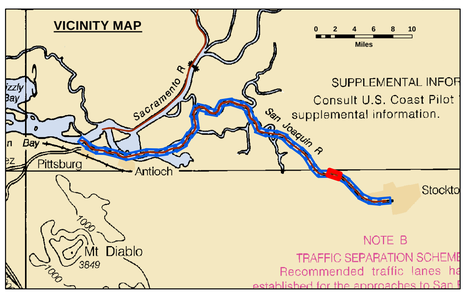
Surveyed By:
Plotted By: PDT
Designed by:
Drawn by: PDT
Checked By: PDT
Chart Date: May 17, 2016

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
32 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage resulting from use made thereof. These data belong to the Government. Therefore the recipient agrees that it will not transfer these data to others without the that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

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

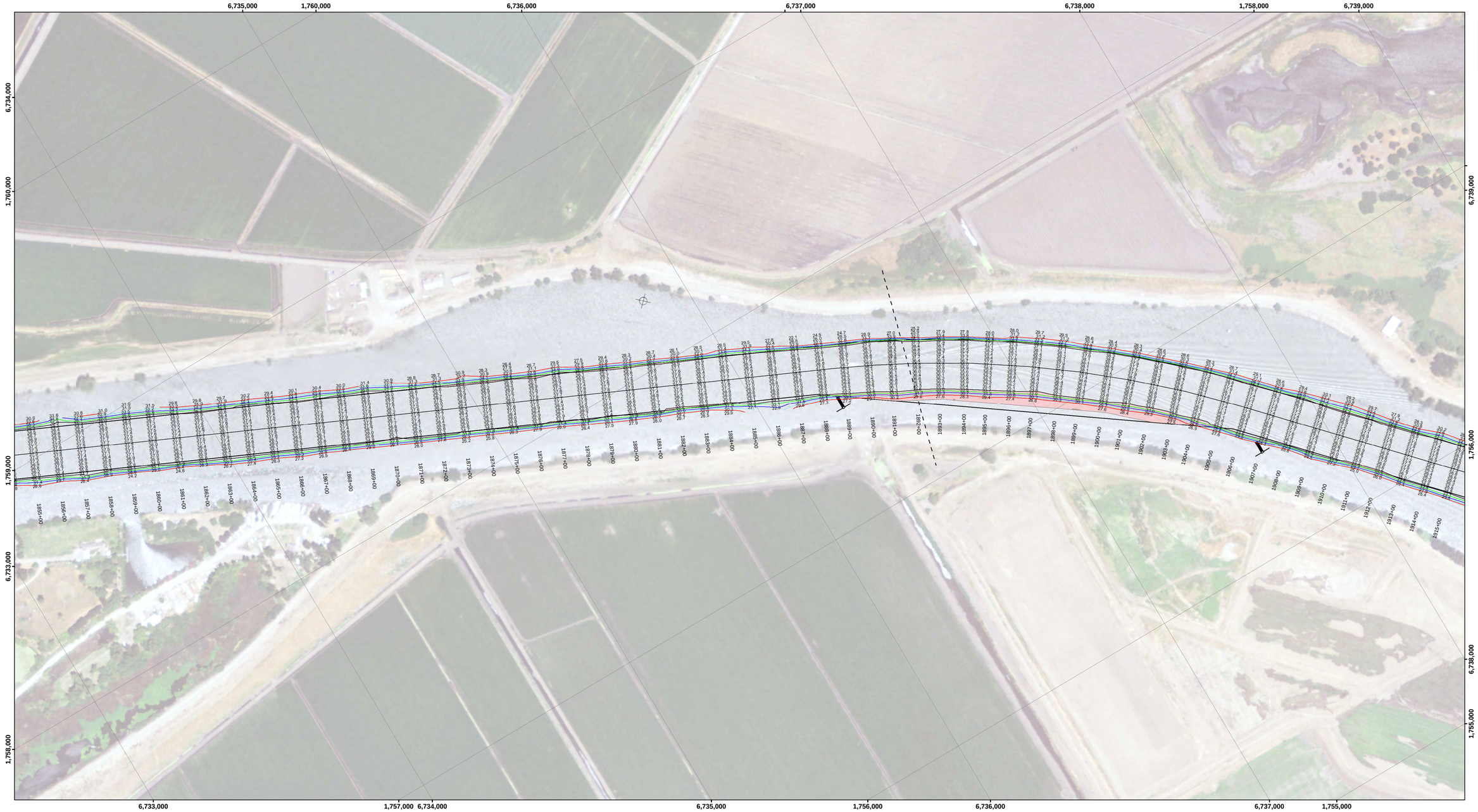
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

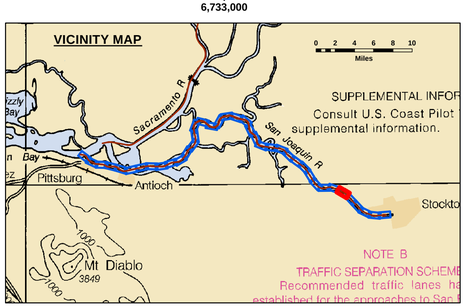
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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
- Anchorage Area
- Obstruction Point
- Wrecks-Submerged
- Shoaling Area
- Shoalest Sounding**
- Beacon, General
- Red Navigation Buoy
- Green Navigation Buoy

NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to the recipient or any other party resulting from the use of the data furnished or any reuse thereof. These data belong to the Government. Therefore the recipient agrees to preserve the proprietary rights of the Government in these data and to impose the same obligation on any other that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability. The data represents the results of data collected by the Corps of Engineers and is provided by the Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location specified in the original request. Therefore, the Corps assumes no liability for any misuse of any of the application of the data for other than its intended purpose.

Surveyed By:
Chart Date: May 17, 2016
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

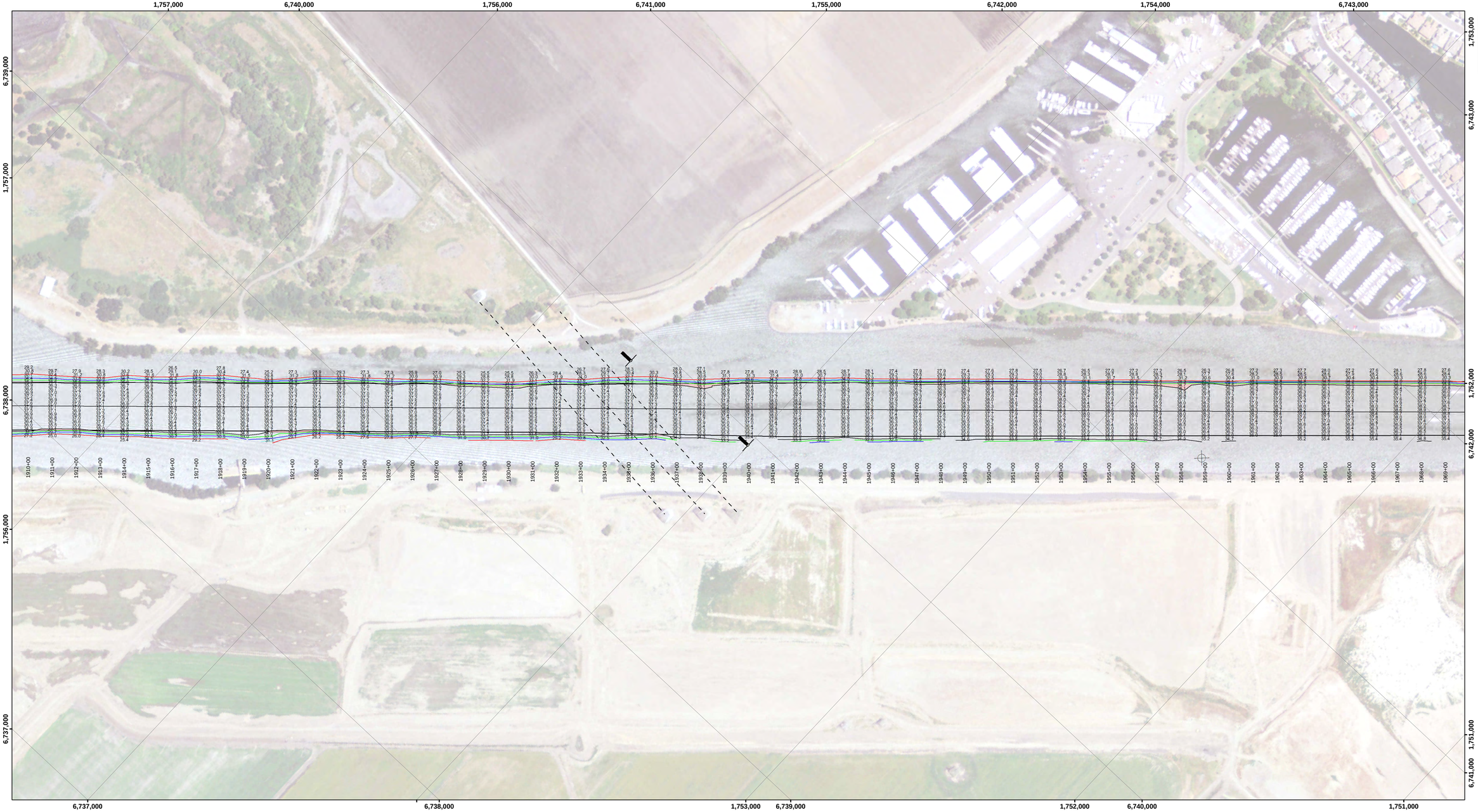
Approved: _____
Chief, Construction Branch

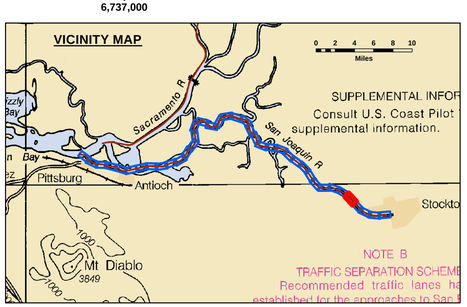
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
34 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT. 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT. 37 55.44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and location of the original data collection and analysis. Any other use of any of the application of the data for other than its intended purpose.

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be held harmless from any liability resulting from any such use made thereof. These data belong to the Government. Therefore the recipient may not sell or offer for resale these data or any part thereof. Further, the recipient may not transfer these data to others without also transferring this Disclaimer.

Surveyed By:	Chart Date: May 17, 2016
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

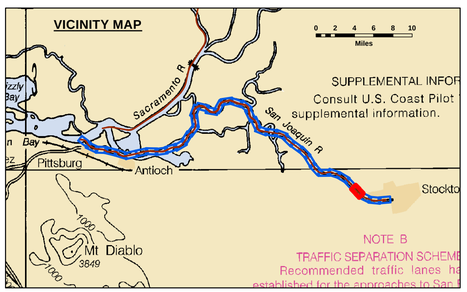
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
35 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
USE OF DATA: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient agrees that it will not resell or transfer to any other party that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data acquisition and processing conducted by the US Army Corps of Engineers policy and in accordance with prevailing conditions. As such, it is only valid for its intended use, content, time and conditions of acquisition and processing. Distribution liability is limited to the application of the data for other than its intended purpose of any of the application of the data for other than its intended purpose.

Chart Date: May 17, 2016
Surveyed By:
Plotted By: PDT
Designed By:
Checked By: PDT
Drawn By: PDT

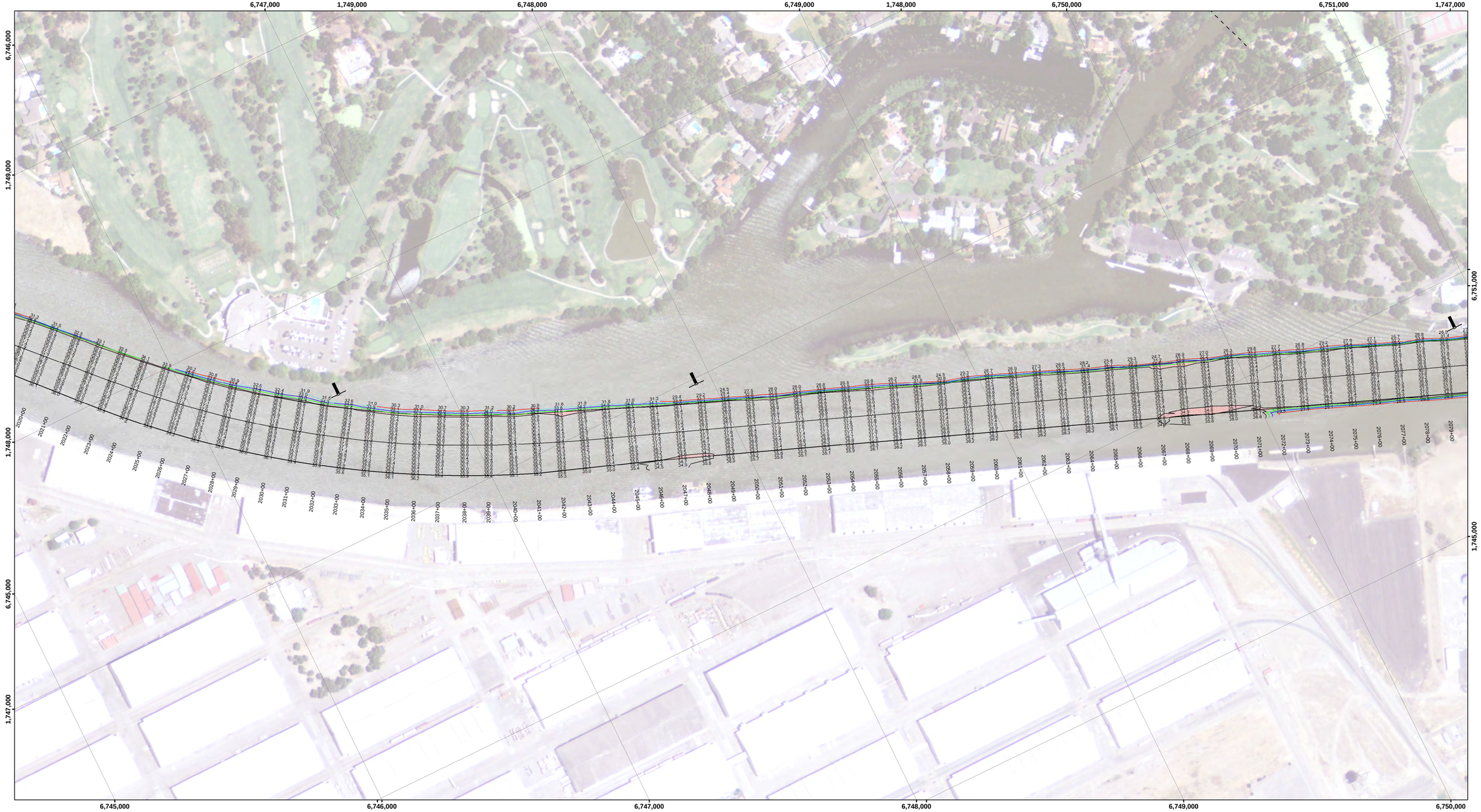
PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

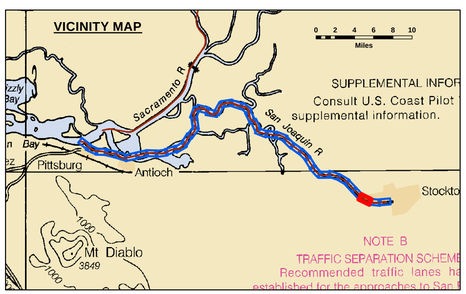
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to the recipient or any other party resulting from the use of the data furnished or any claim made thereof. These data belong to the Government. Therefore the recipient agrees to return the original data to the Government or certify that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability. The data represents the results of data collected by the Corps of Engineers and is provided to the Corps of Engineers policy and includes the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy. Any other use or reuse is at the user's own risk and of any of the application of the data for other than its intended purpose.

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

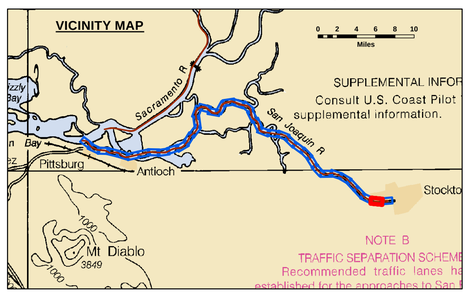
Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
37 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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage to any party made thereof. These data belong to the Government. Therefore the recipient agrees that if these data are transferred, the recipient agrees that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collection and analysis performed by the US Army Corps of Engineers policy and includes the prevailing existing conditions. As such, it is only valid for its intended use, content, time and application. Modifications to the data subsequent to its distribution, or any of the application of the data for other than its intended purpose.

Surveyed By:	Chart Date: May 17, 2016
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

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

Submitted
Hydro Survey Team Leader

Recommended
Chief, Hydro Survey Section

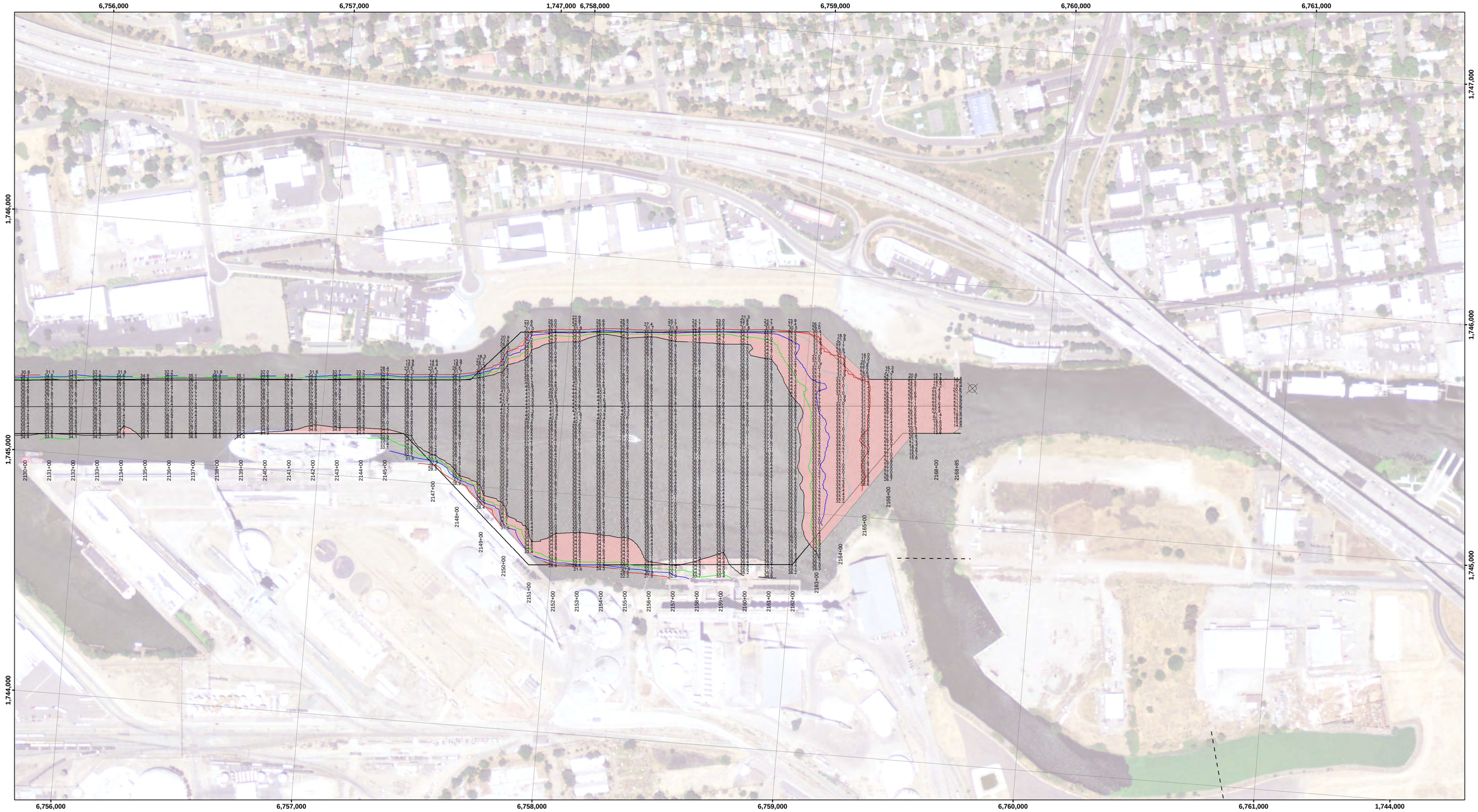
Approved
Chief, Construction Branch

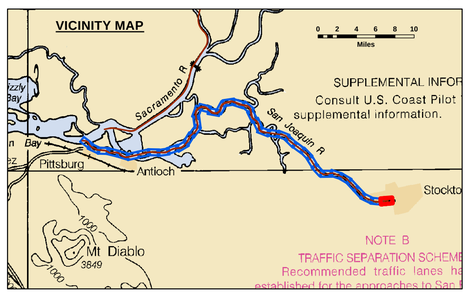
CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

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:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH: -35'

VERTICAL DATUM: MLLW

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
Nail @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
LAT: 37 55 44.62 N
LONG: 121 19 40.74 W

OTHER SAN JOAQUIN RIVER GAUGES:
DAY MARKER 19 = 8.2 FT MLLW
DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

US Army Corps of Engineers
District: CESPK

DISCLAIMER
Distribution Liability: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information and the data furnished. The United States shall be exonerated from any liability for any loss or damage resulting from use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also informing that Government provided data. The recipient may not transfer these data to others without also transferring this Disclaimer.

Distribution Liability: The data represents the results of data collected by the Corps of Engineers and is subject to the Corps of Engineers policy and includes the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy. Distribution of the data to others shall include this statement of any of the application of the data for other than its intended purpose.

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: May 17, 2016
Designed by:
Drawn by: PDT

CALIFORNIA
SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
22-25 FEBRUARY 2016

Sheet Reference Number
39 of 39