

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

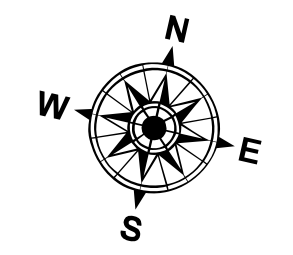


NOTES:
DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE II, CALIFORNIA 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: 5084-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



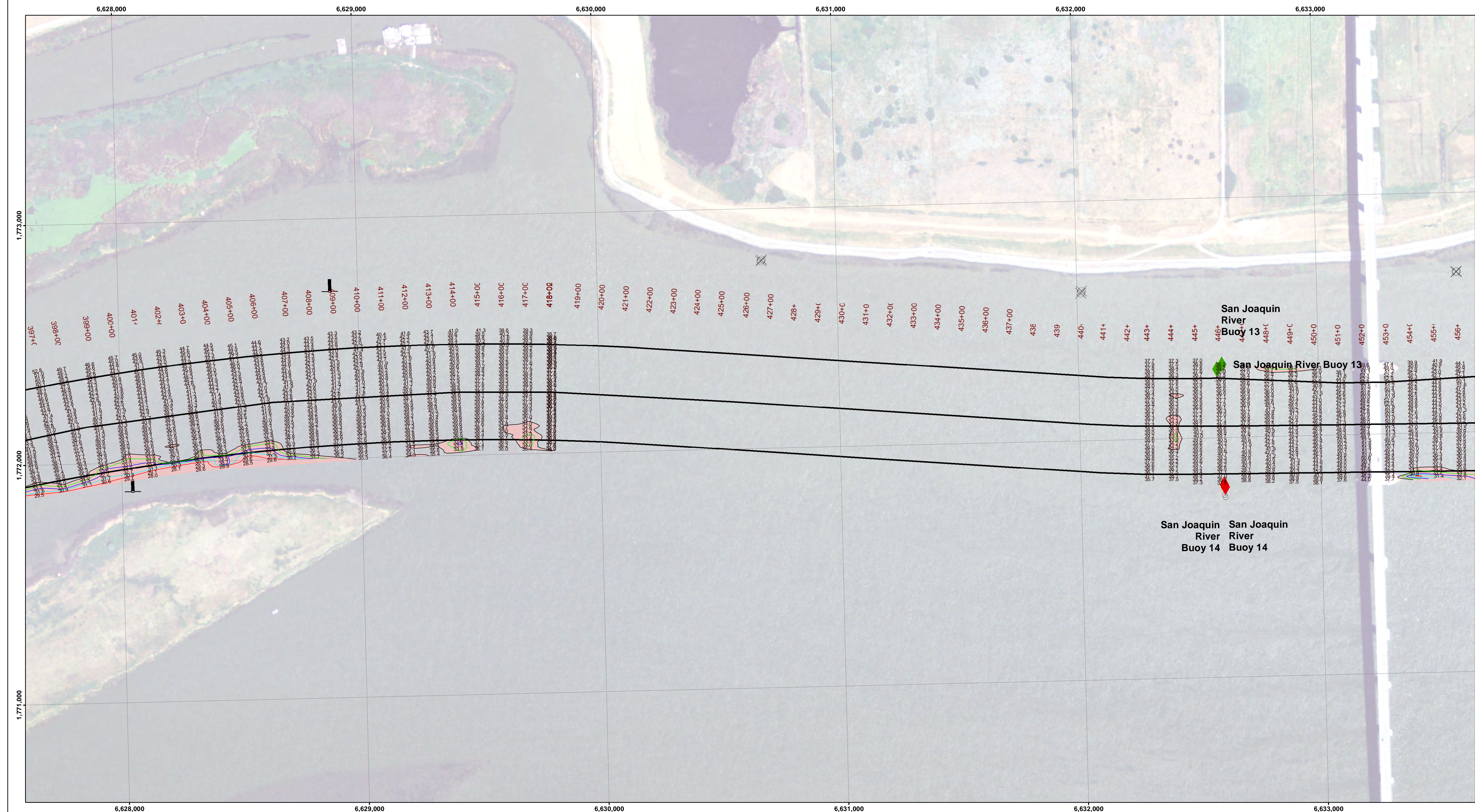
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 16, 2020
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked by: PDT	
Approved: Chief, Construction Branch	

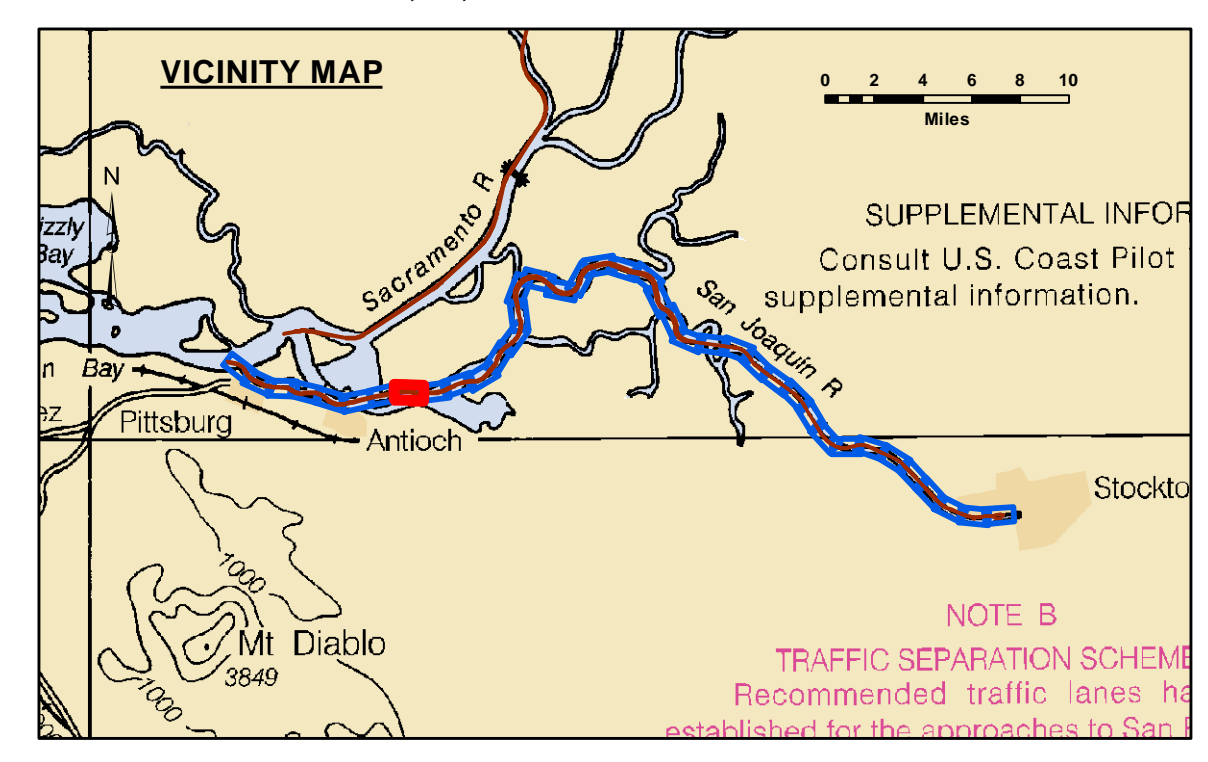
CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
6 of 39



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Chart Date:	Oct 16, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT



Feet
0 400 800 1,200

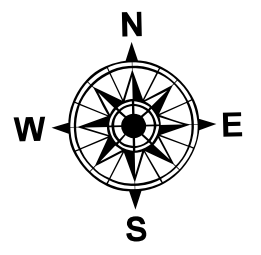
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
..... Cable Submarine	▨ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour Line	✈ Wrecks-Submerged	♦ Green Navigation Buoy	— -32
			— -31

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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

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DAY MARKER 19 = 8.2 FT MLLW
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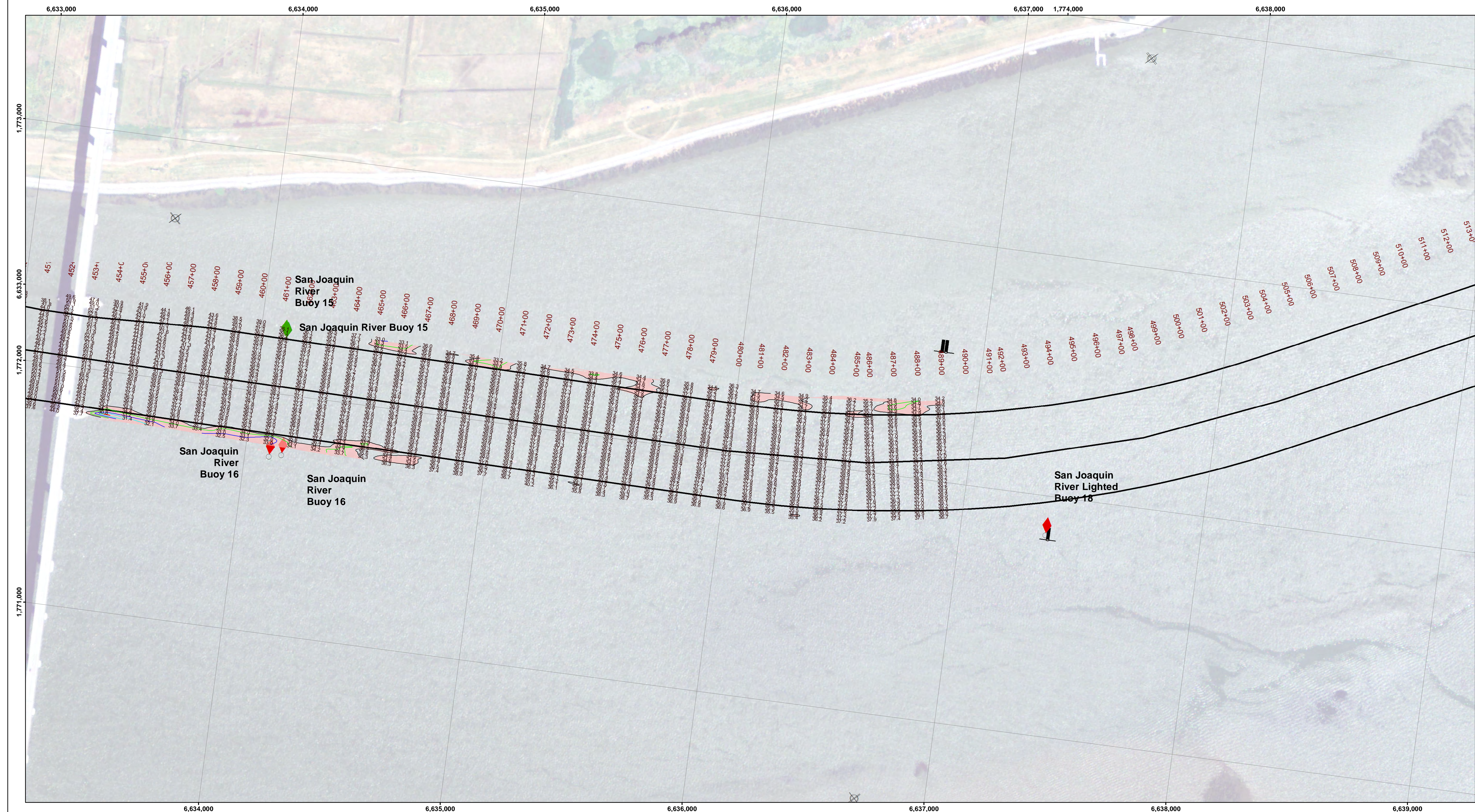
CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
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CALIFORNIA
SAN JOAQUIN COUNTY

**STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020**

Sheet Reference Number
8 of 39

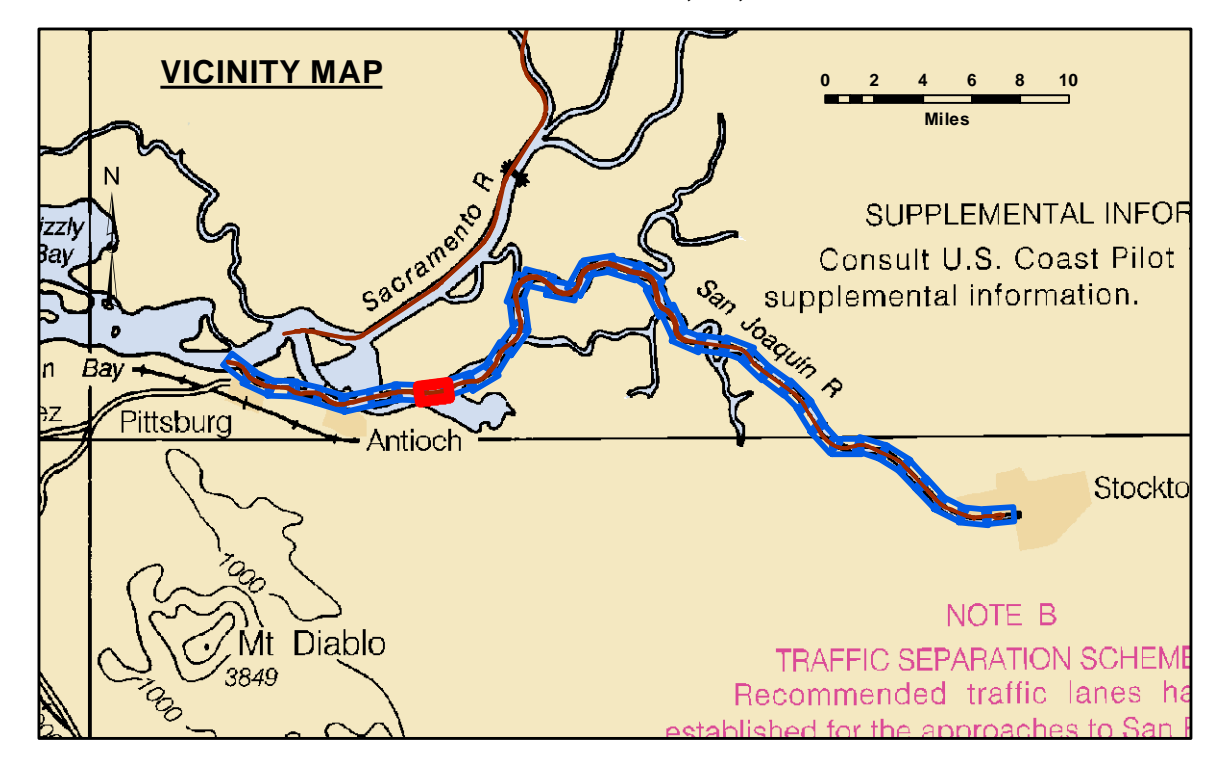


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Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
9 of 39



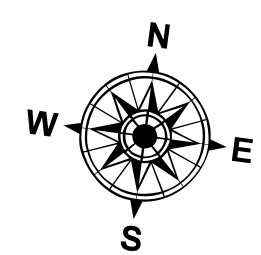
LEGEND		
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- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy
— Contour Line	✳ Wrecks-Submerged	♦ Green Navigation Buoy

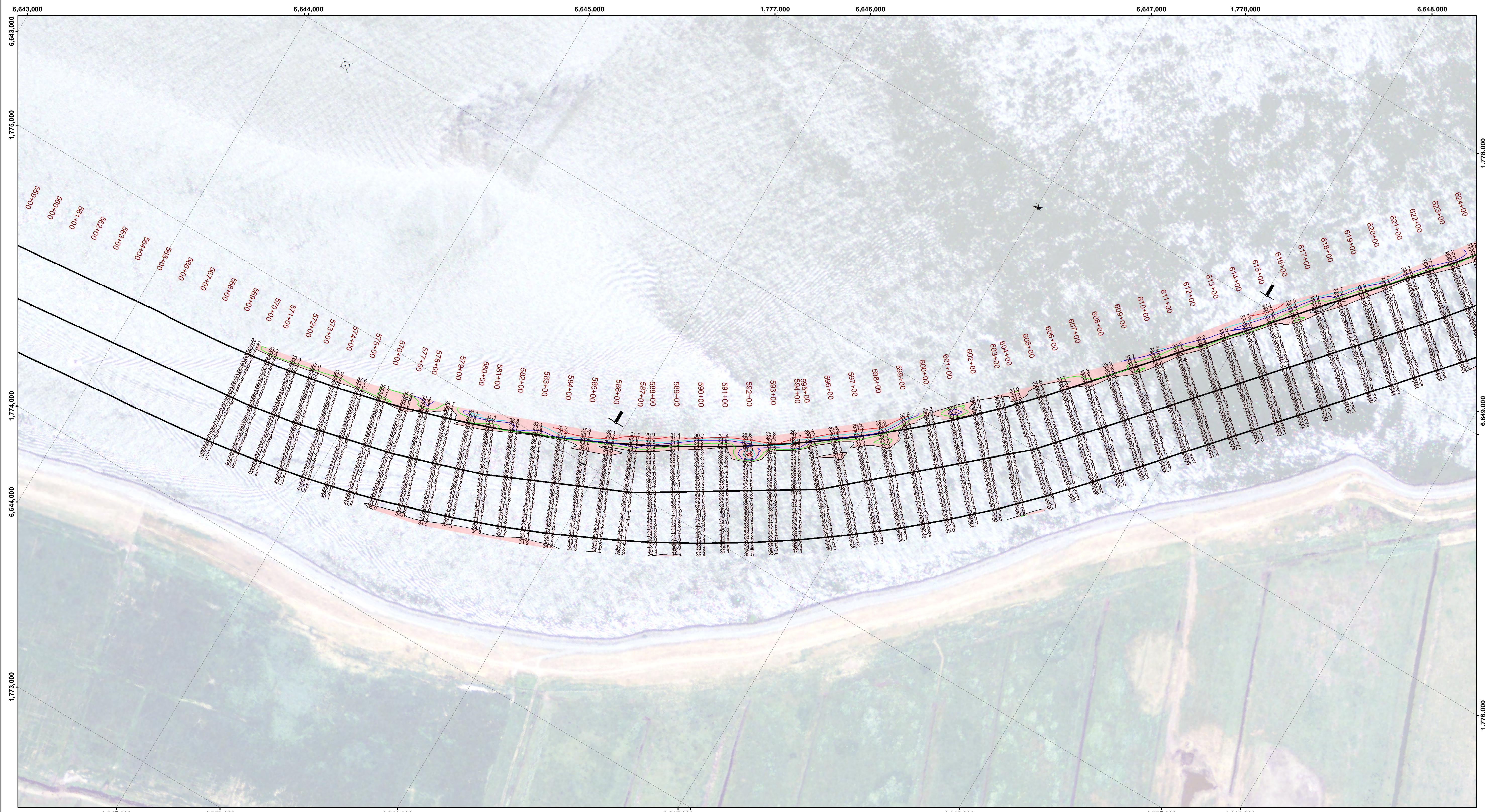
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LOCATION: PORT OF STOCKTON
 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

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CONTROLS:
 LOCATION: ANTIOCH
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 TIDE GAUGE:
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 LAT: 38 01 6.9393 N
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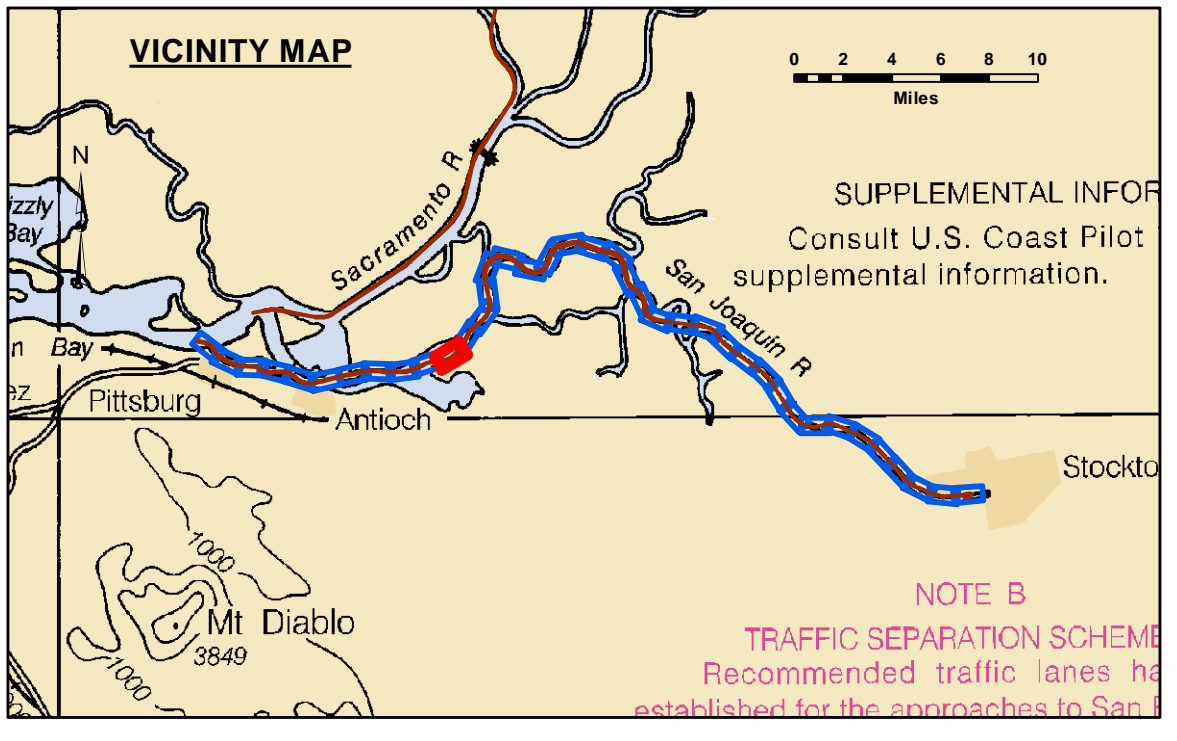


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Chart Date:	Oct 16, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 CONDITION SURVEY
 25-27 SEPTEMBER 2020



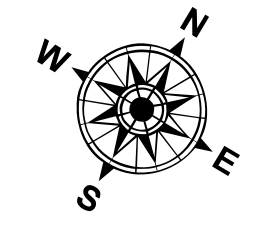
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--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▨ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		♦ Green Navigation Buoy	

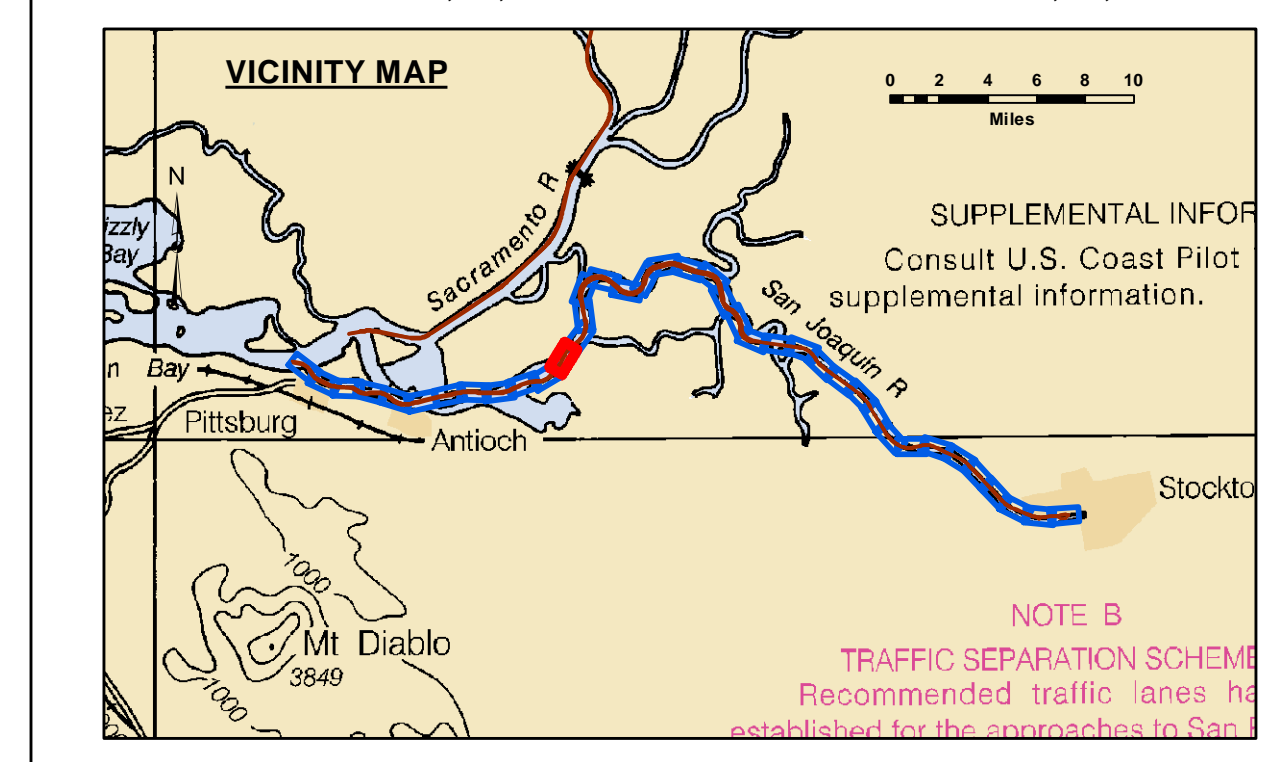
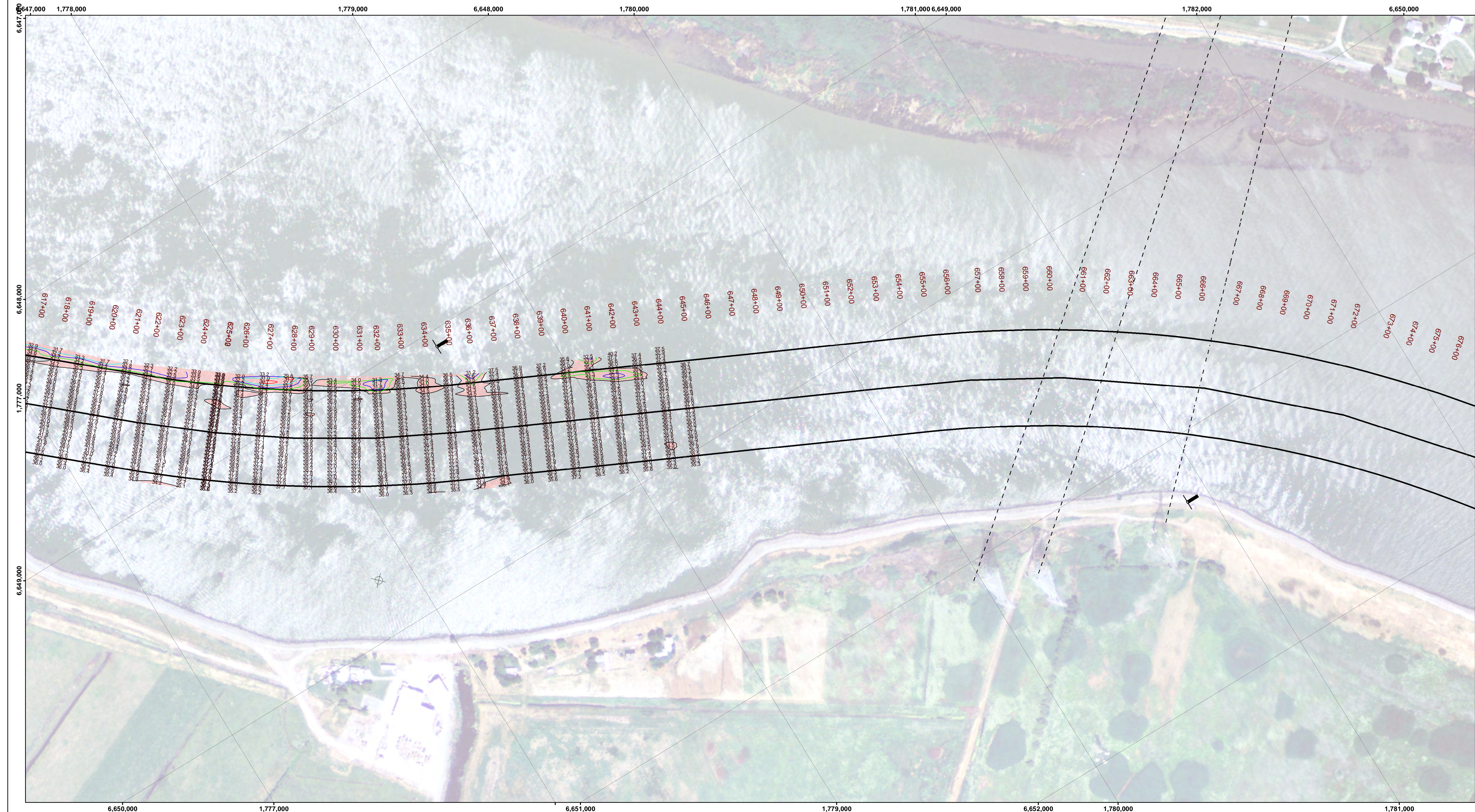
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CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 Nail @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W

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





Feet
0 400 800 1,200

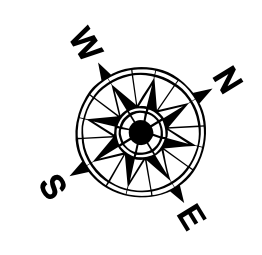
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
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..... Cable Submarine	▭ Anchorage Area	— -33	
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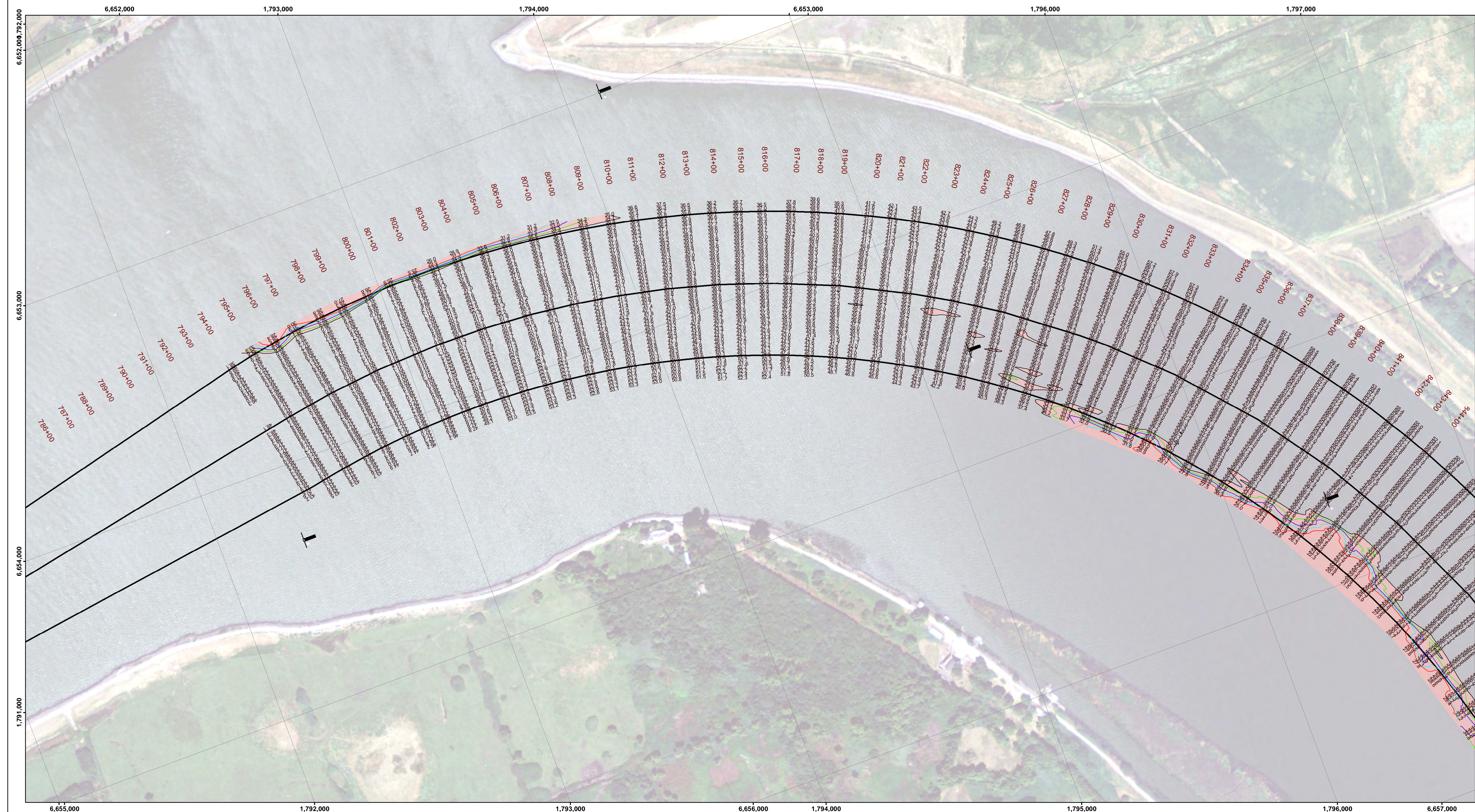
Chart Date:	Oct 16, 2020
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
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
25-27 SEPTEMBER 2020

Sheet Reference Number
12 of 39



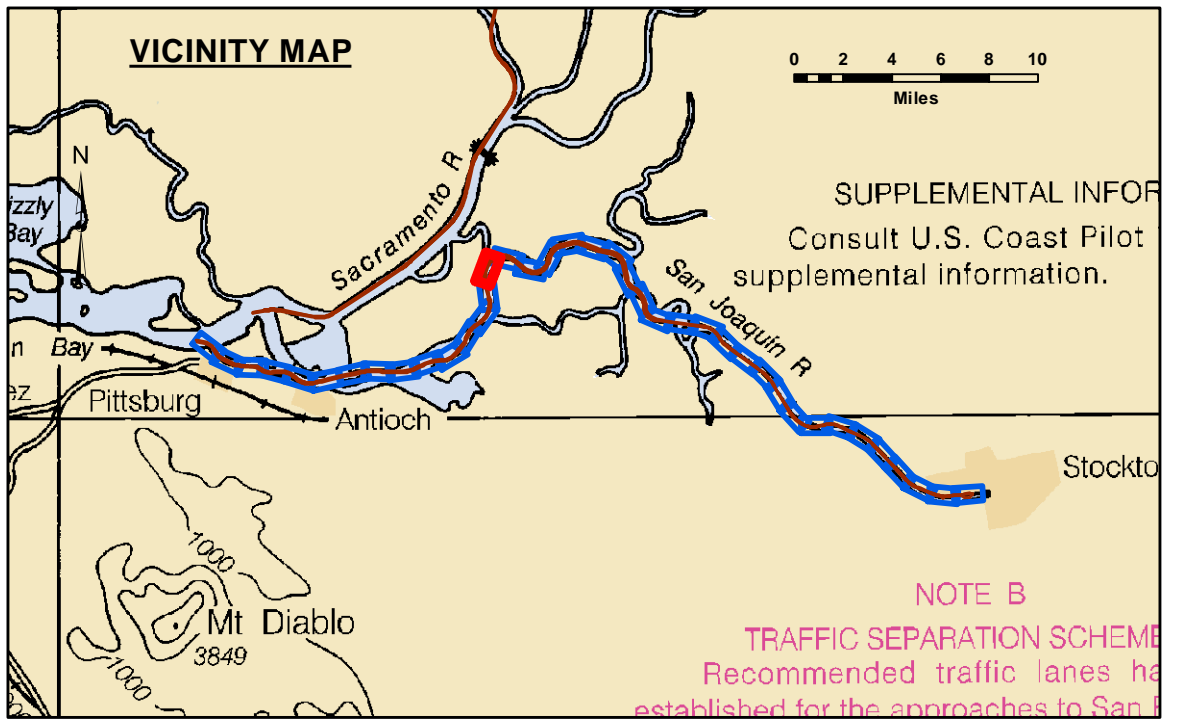
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Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT

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

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



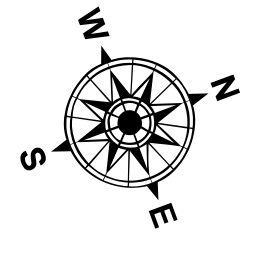
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
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		♦ Red Navigation Buoy	
		◆ Green Navigation Buoy	
		■ Shoaling Area	

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 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

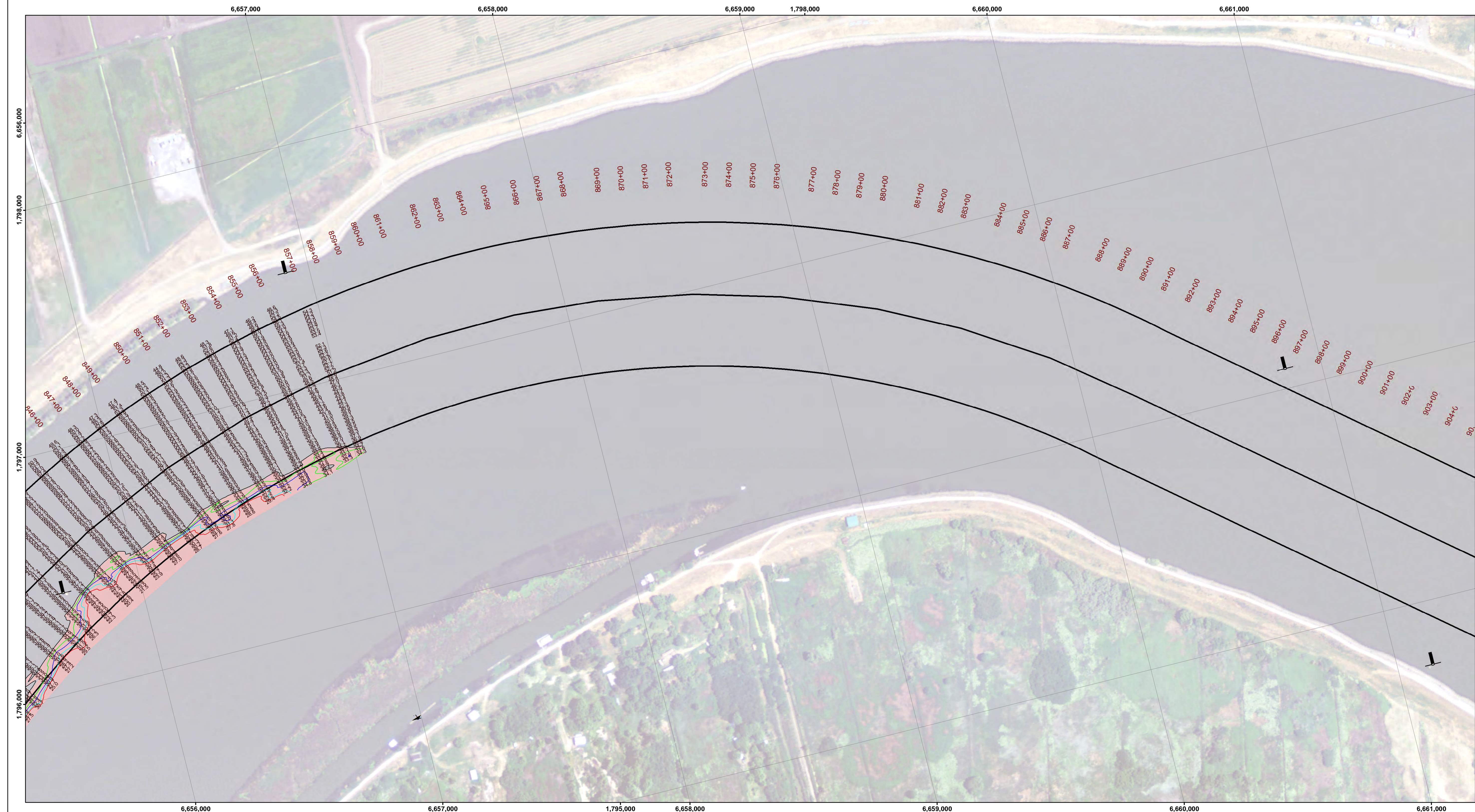
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 DAY MARKER 19 = 9.0 FT MLLW
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CONTROLS:
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CALIFORNIA
 SAN JOAQUIN COUNTY
STOCKTON RIVER
 CONDITION SURVEY
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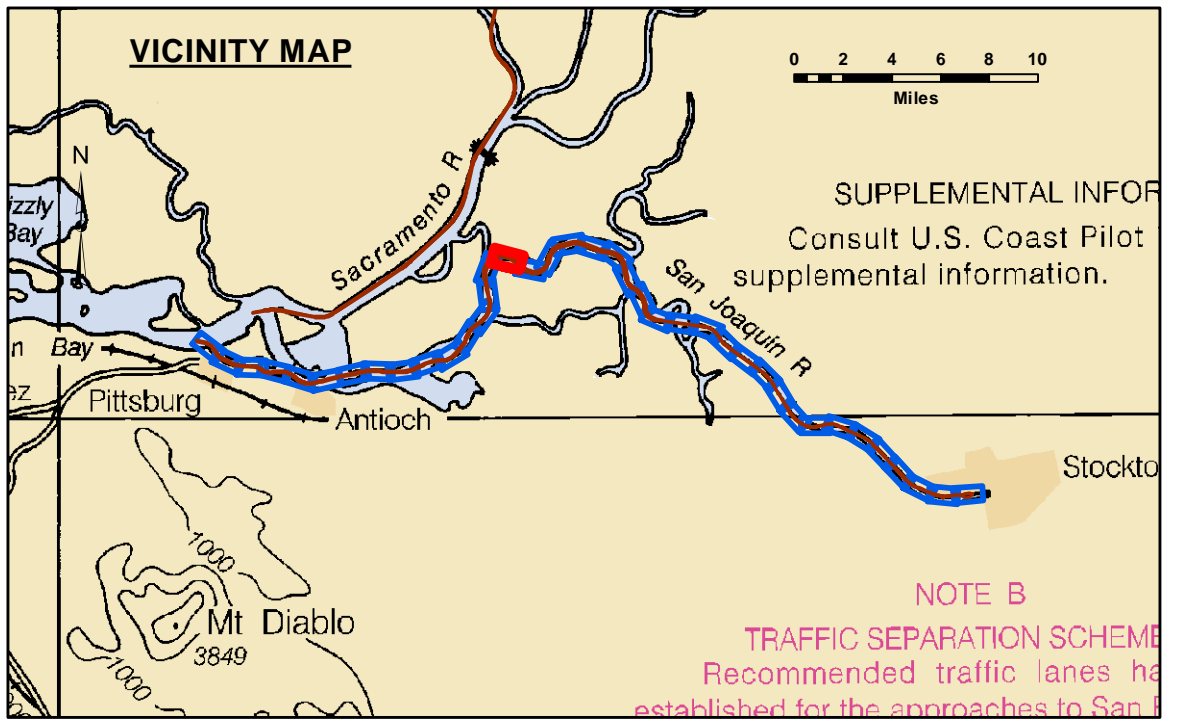
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CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020



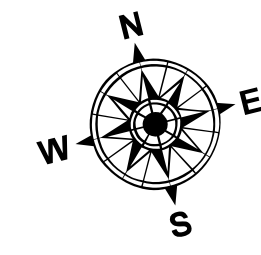
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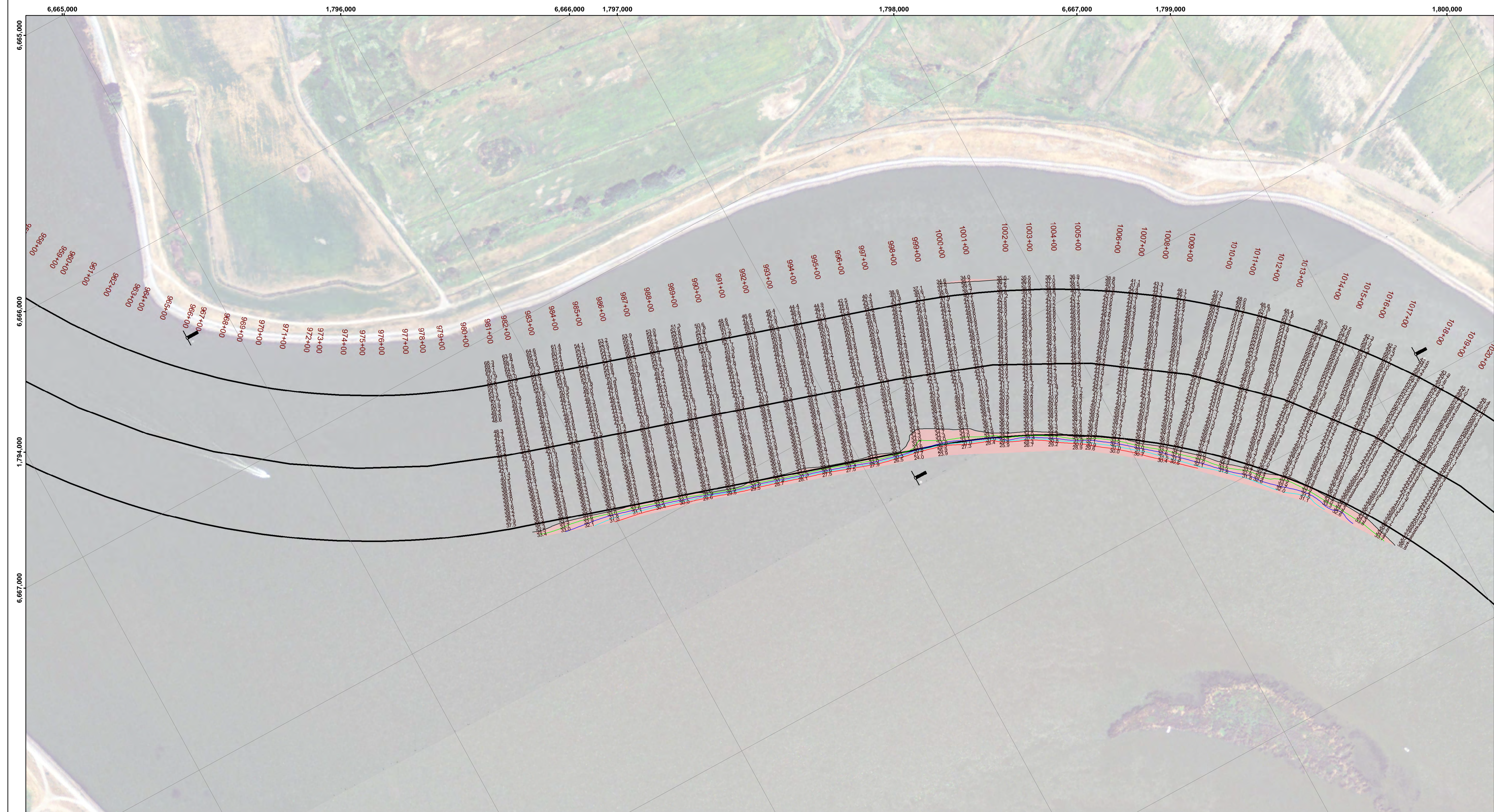
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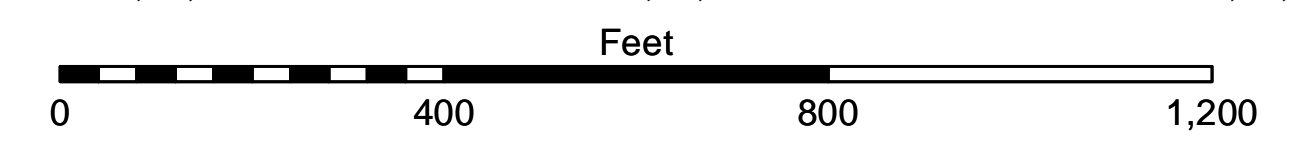
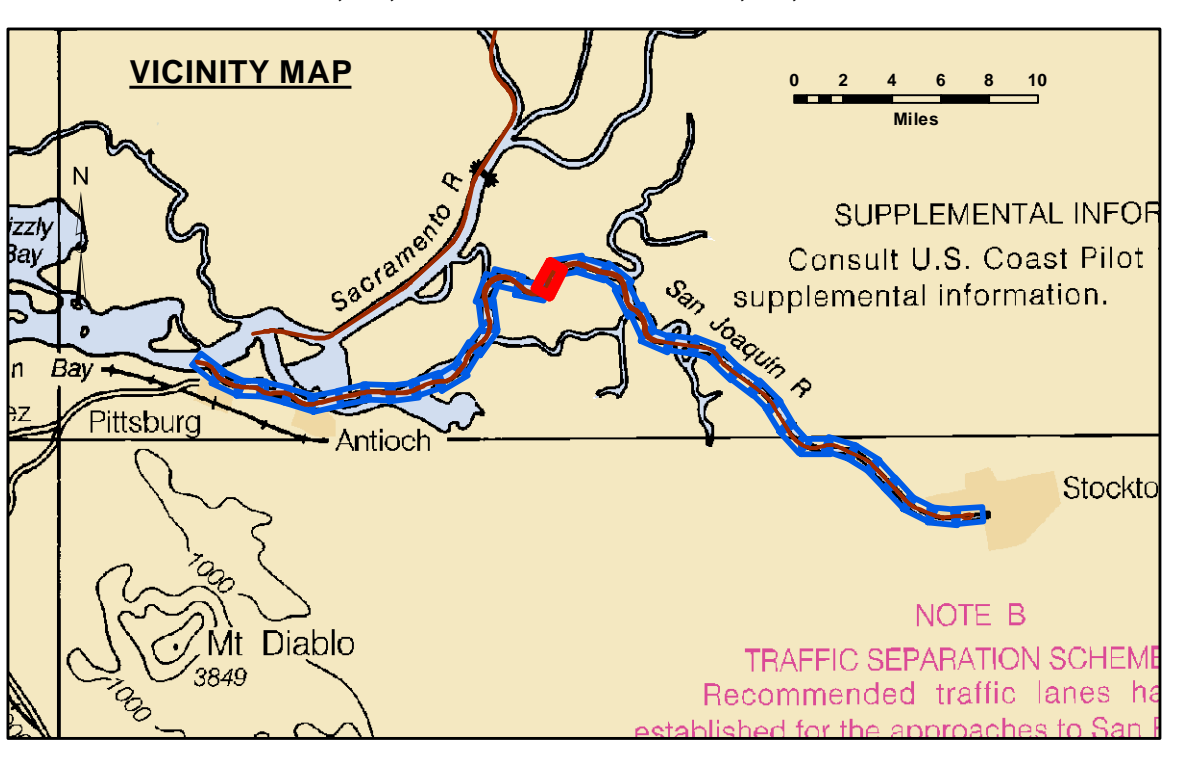


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PREPARED UNDER THE DIRECTION OF
JOHN D. CUNNINGHAM
 LT COLONEL, C.E., DISTRICT ENGINEER

San Joaquin County
STOCKTON RIVER
 CONDITION SURVEY
 25-27 SEPTEMBER 2020



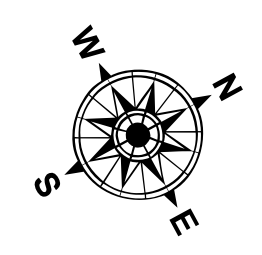
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		♦ Green Navigation Buoy	

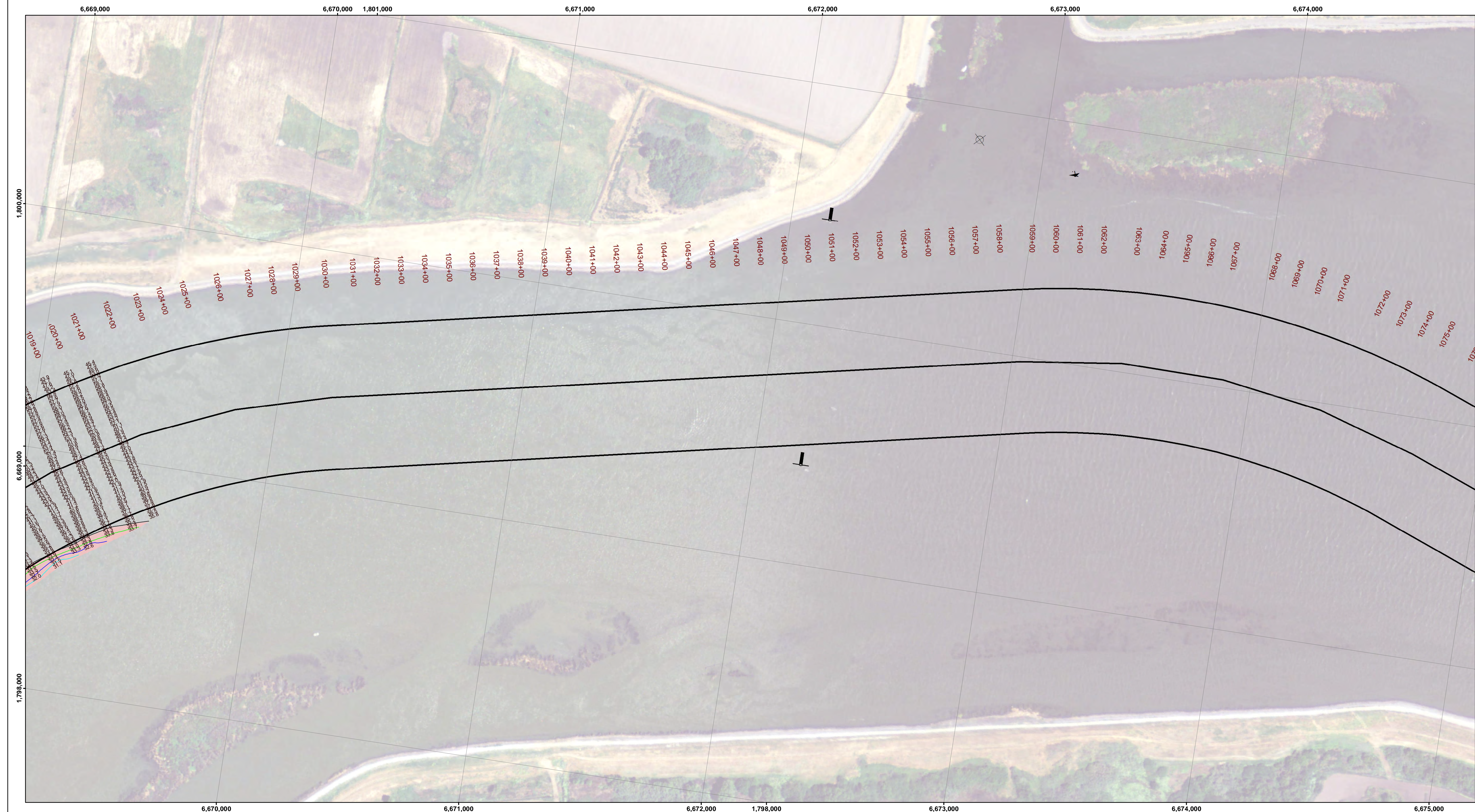
NOTES:
 DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
 PLANE 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

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

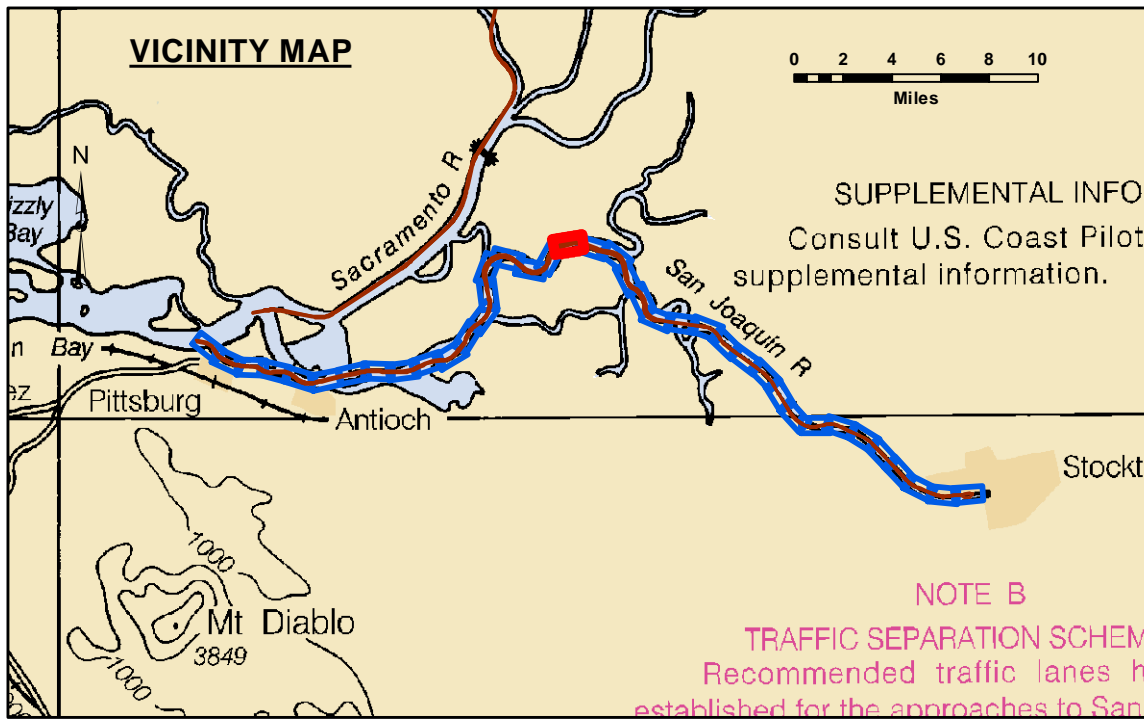
CONTROLS:
 LOCATION: ANTIOCH
 NOAA STATION: 941 5064
 BENCHMARK: 5064-F (No PID)
 TIDE GAUGE:
 NAIL @ 10.15 FT MLLW
 LAT: 38 01 6.9393 N
 LONG: 121 48 56.7074 W





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Prepared Under the Direction of JOHN D. CUNNINGHAM LT. COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: PDT	Chart Date: Oct 16, 2020
Steno: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		



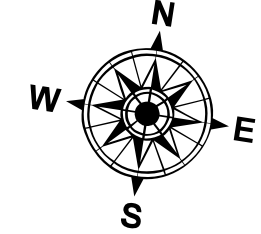
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⬇ Beacon, General		
	◆ Red Navigation Buoy		
	◆ Green Navigation Buoy		

NOTES:
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PROJECT DEPTH: -35'
VERTICAL DATUM: MLLW
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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

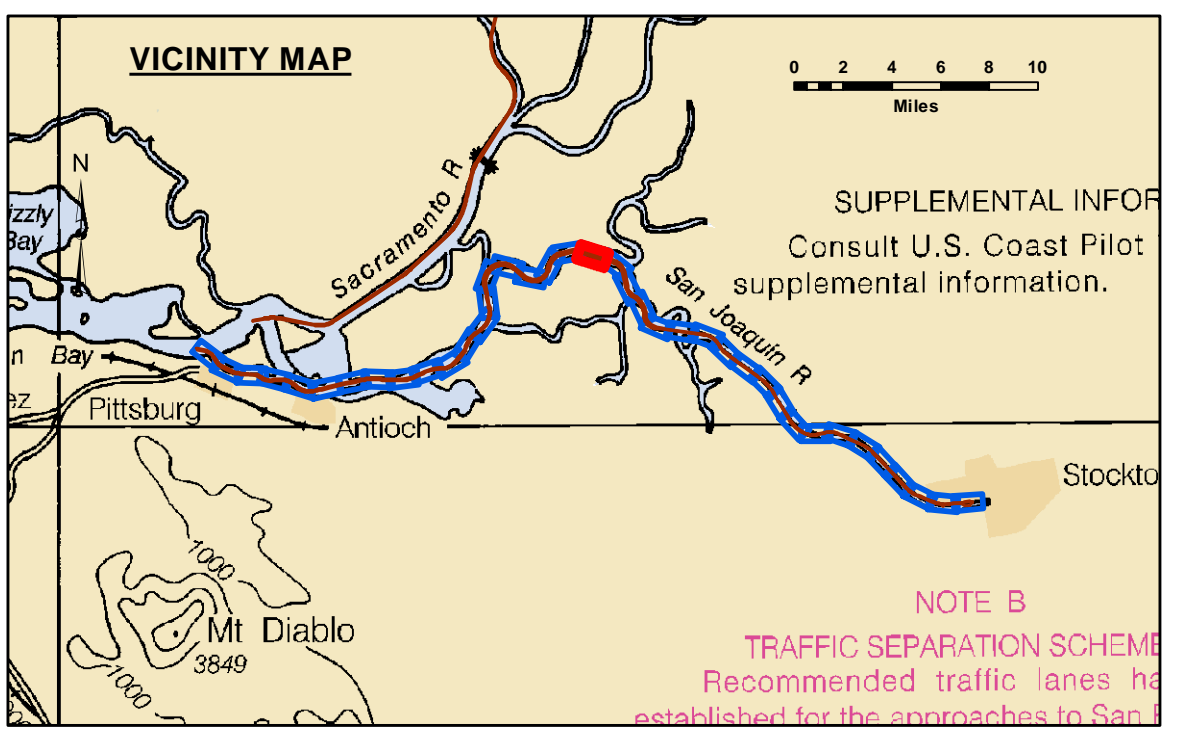
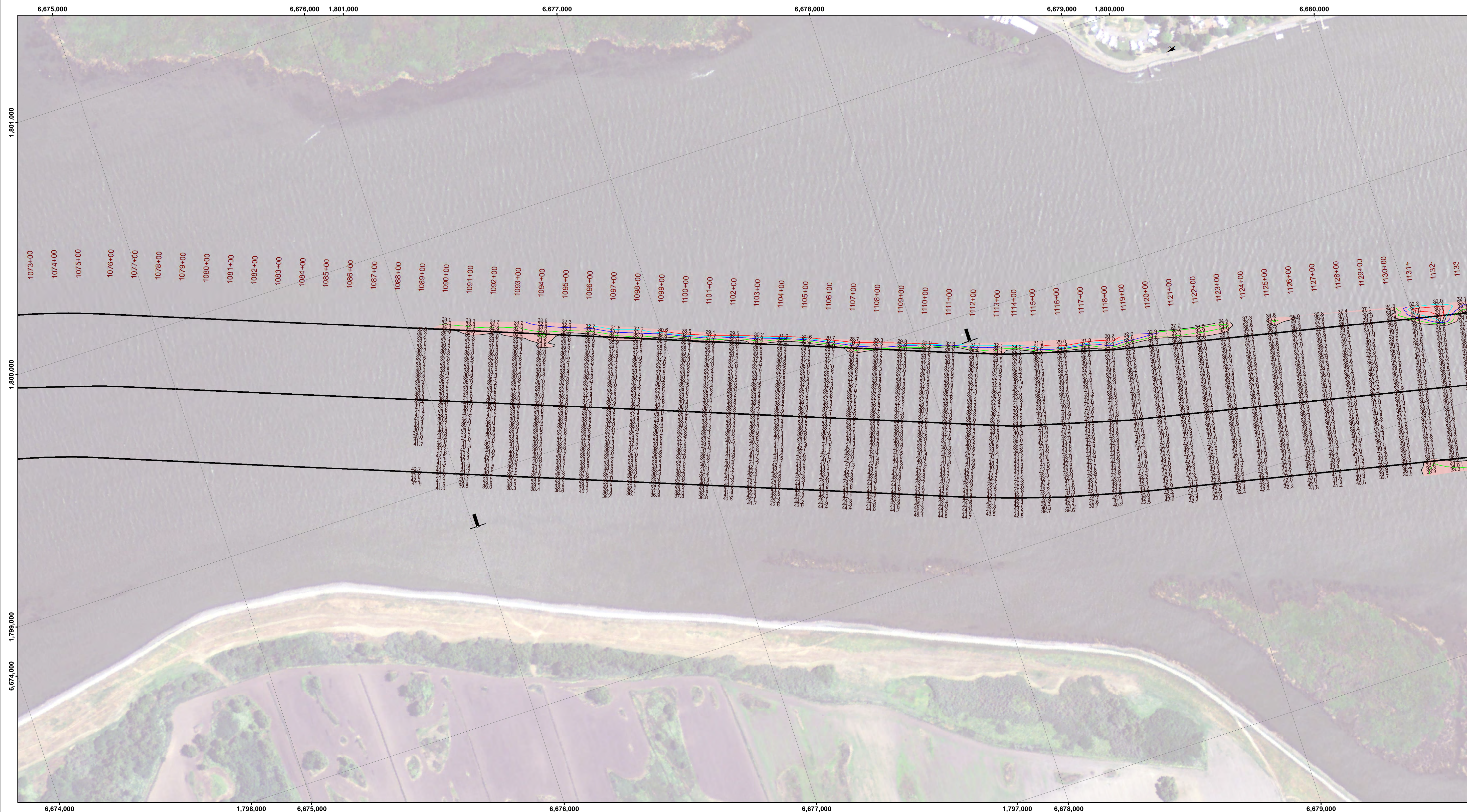
OTHER SAN JOAQUIN RIVER GAUGES:
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DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

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



CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
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LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		◆ Green Navigation Buoy	

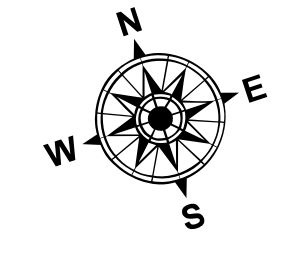


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VERTICAL DATUM: MLLW
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CONTROLS:
LOCATION: ANTIOCH
NOAA STATION: 941 5064
BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

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 TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

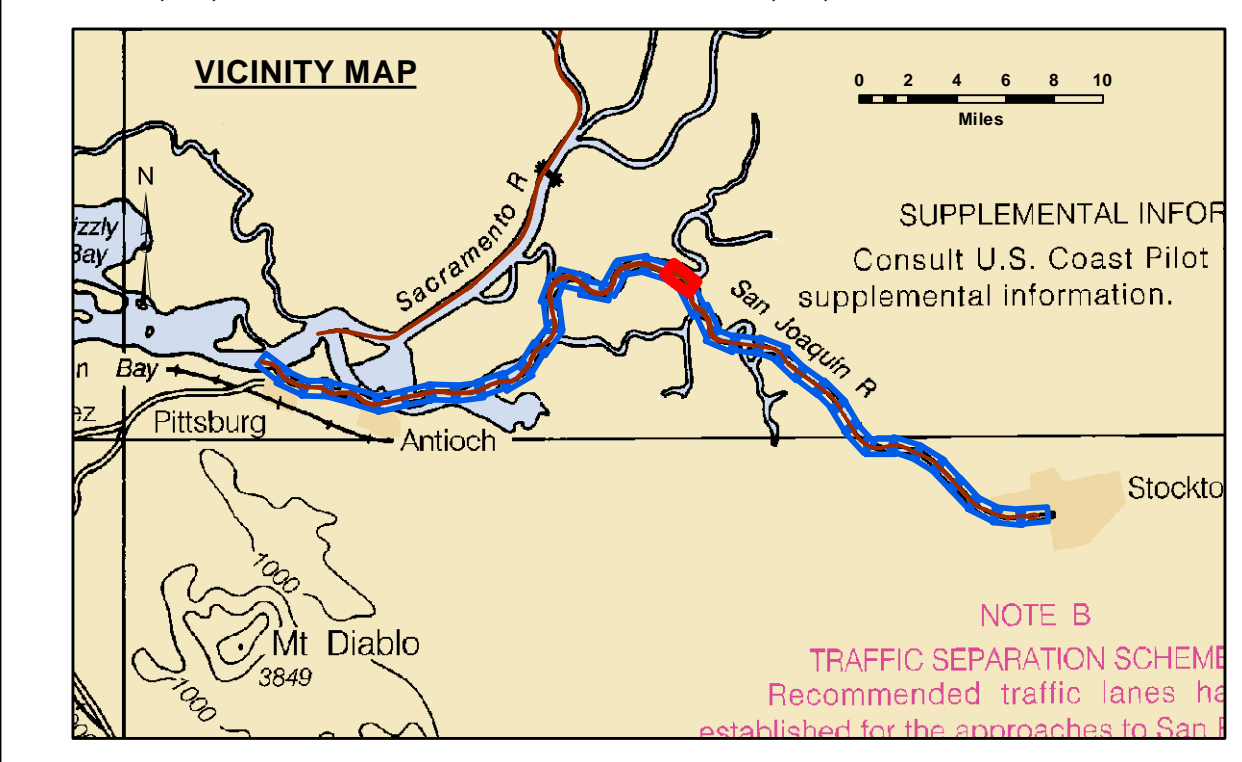
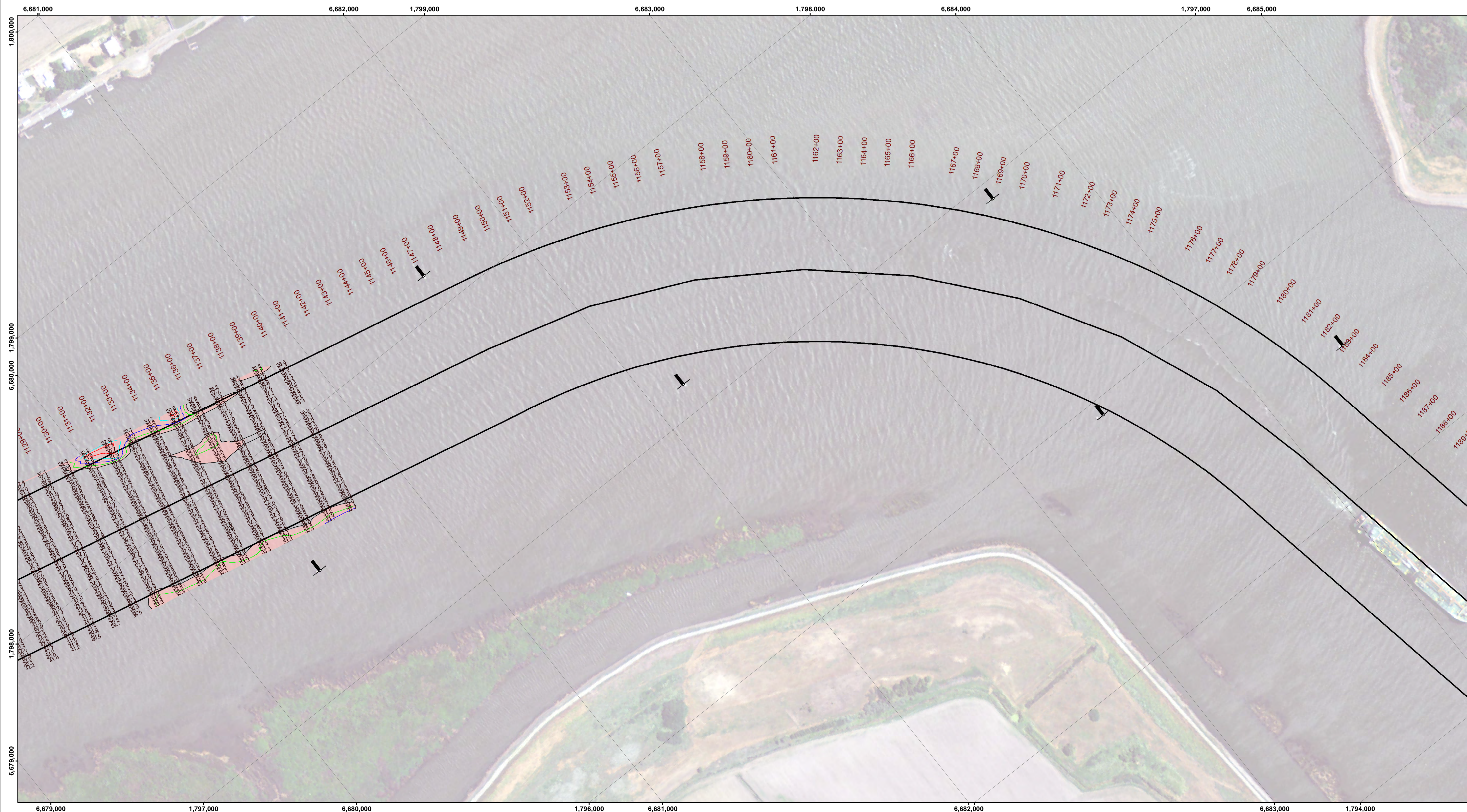


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Chart Date:	Oct 16, 2020
Surveyed By:	JOHN D. CUNNINGHAM
Designed By:	LT. COLONEL C.E. DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
20 of 39



Feet
0 400 800 1,200

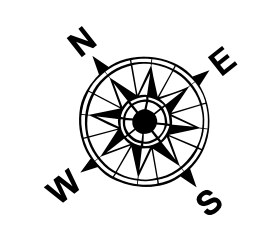
--- Federal Navigation Channel	Cable Area	Shoaling Area	-35
— Federal Navigation Center Line	Placement Area	Shoalest Sounding**	-34
..... Cable Submarine	Anchorage Area	Beacon, General	-33
- - - Cable Overhead	Obstruction Point	Red Navigation Buoy	-32
— Contour Line	Wrecks-Submerged	Green Navigation Buoy	-31

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VERTICAL DATUM: MLLW
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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:
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DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

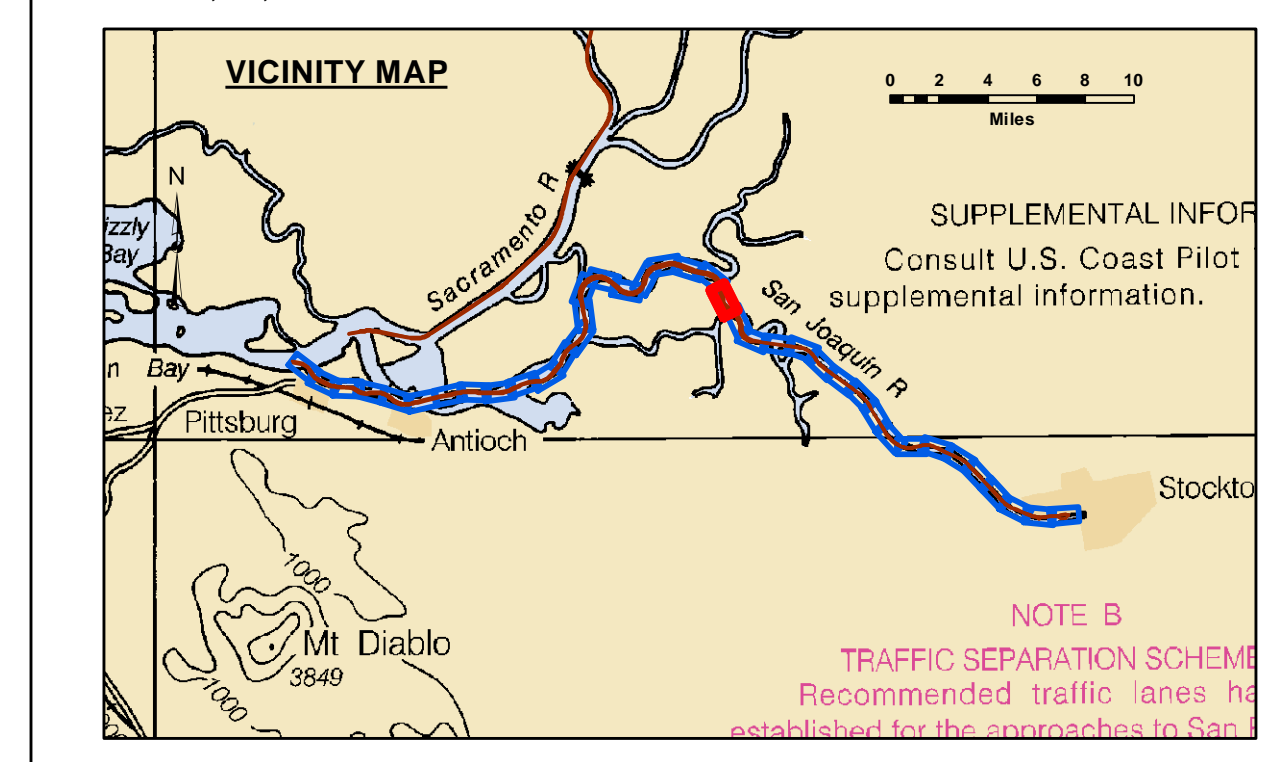
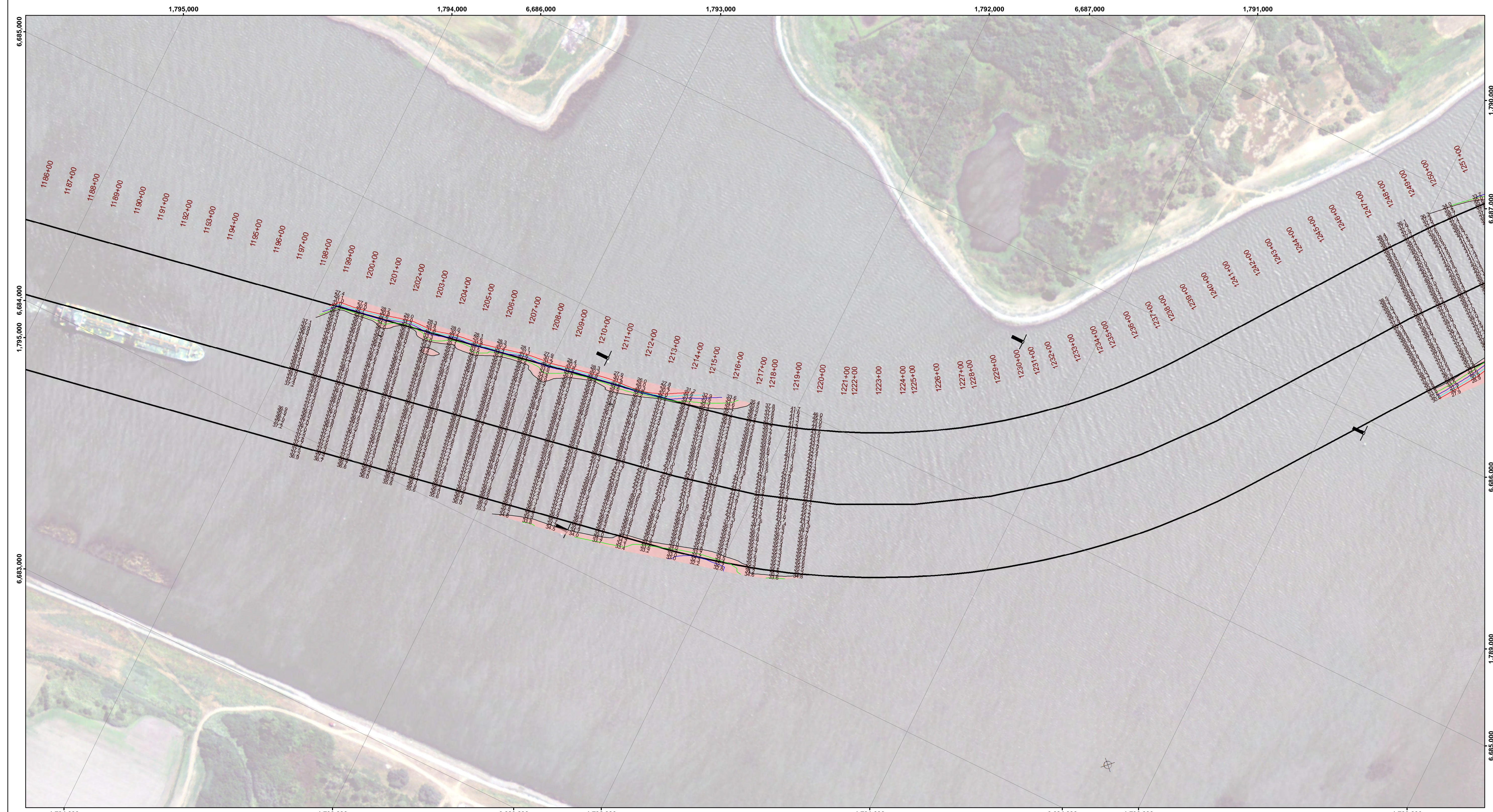


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E., District Engineer	Chart Date: Oct 16, 2020
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
21 of 39



Feet
0 400 800 1,200

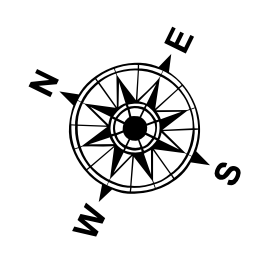
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✶ Wrecks-Submerged	— -31	
			● Shoalest Sounding**
			⊥ Beacon, General
			♦ Red Navigation Buoy
			◆ Green Navigation Buoy

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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

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



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Chart Date:	Oct 16, 2020
Surveyed By:	
Plotted By:	PDT
Designed by:	
Checked By:	PDT
Drawn by:	PDT

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

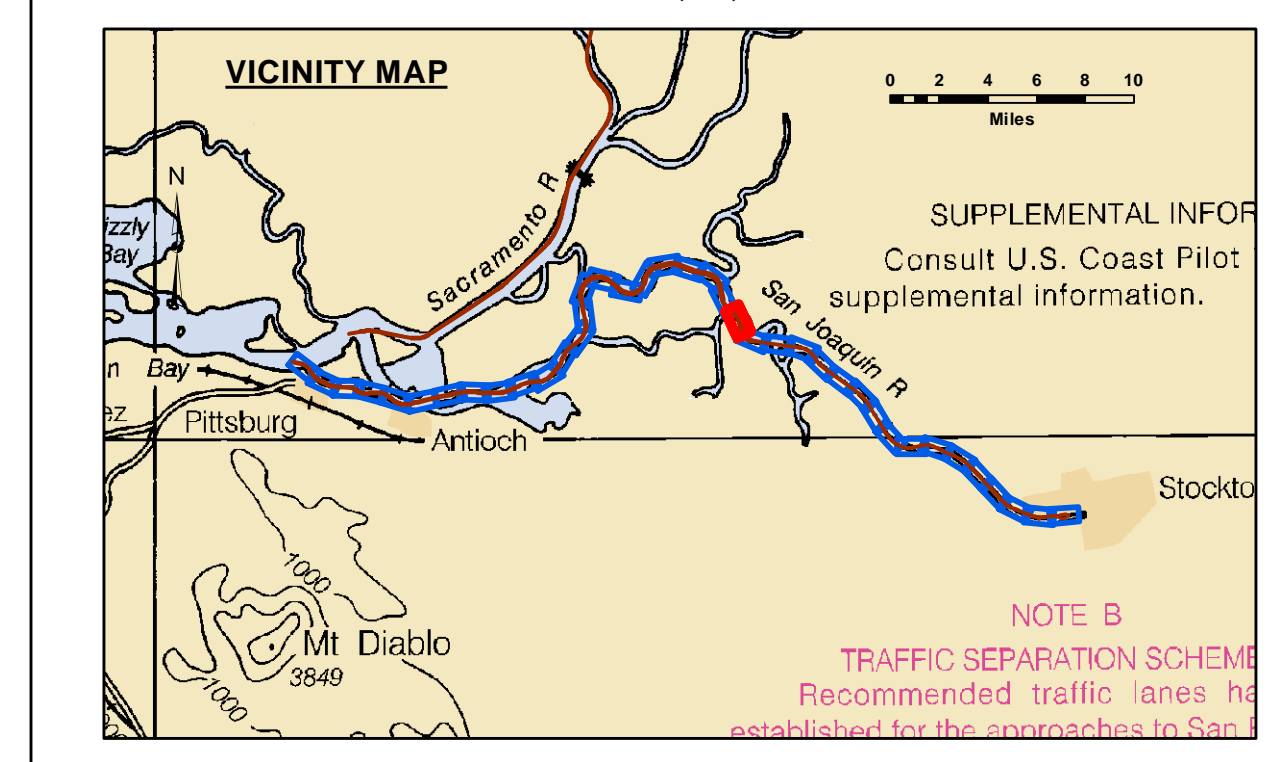
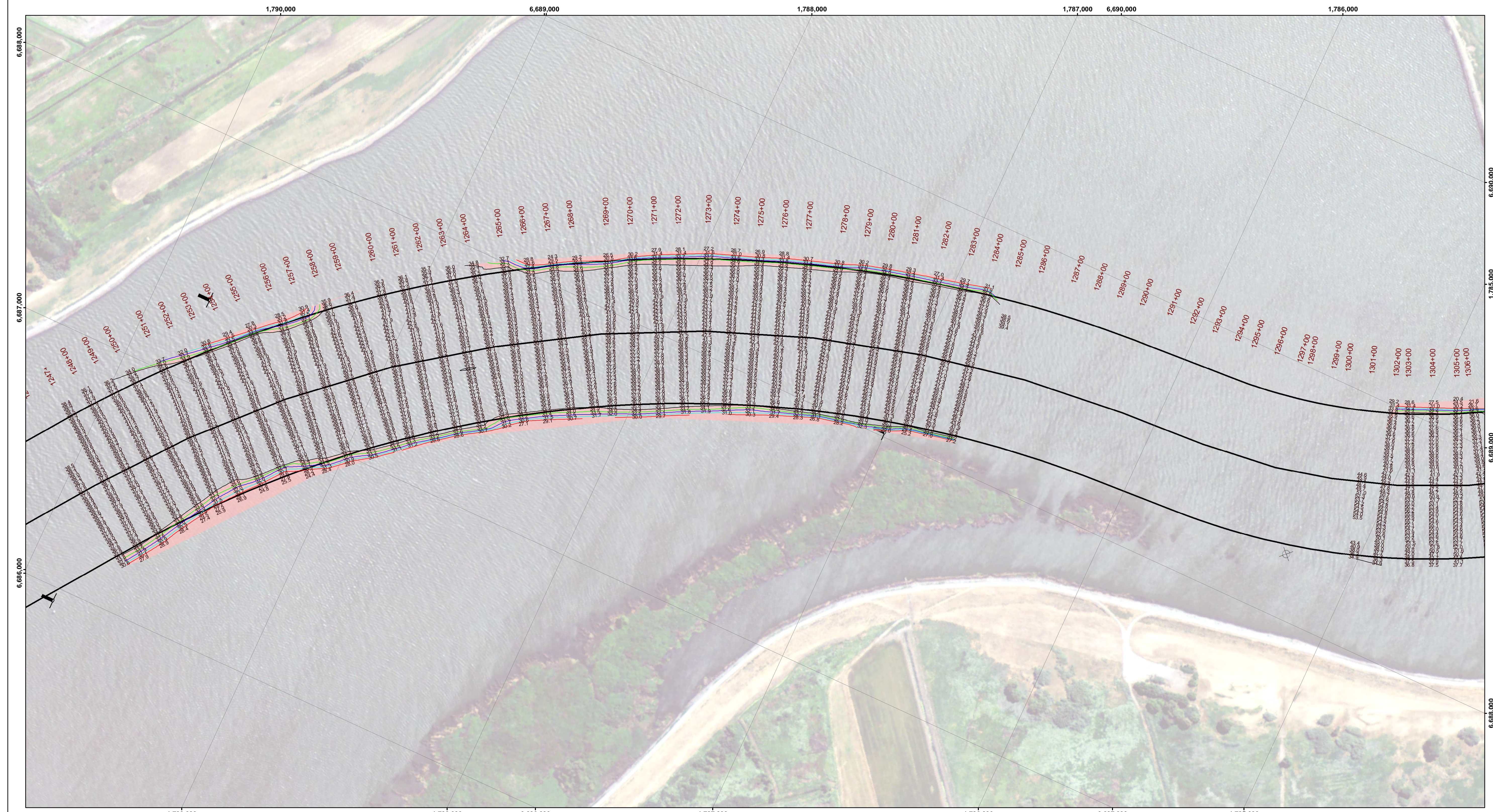
Supervised:
Hydro Survey Team Leader

Recommended:
Chief, Hydro Survey Section

Approved:
Chief, Construction Branch

CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
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Feet
0 400 800 1,200

--- Federal Navigation Channel	Cable Area	Shoaling Area	-35
— Federal Navigation Center Line	Placement Area	Shoalest Sounding**	-34
..... Cable Submarine	Anchorage Area	Beacon, General	-33
- - - Cable Overhead	Obstruction Point	Red Navigation Buoy	-32
— Contour Line	Wrecks-Submerged	Green Navigation Buoy	-31

NOTES:
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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

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

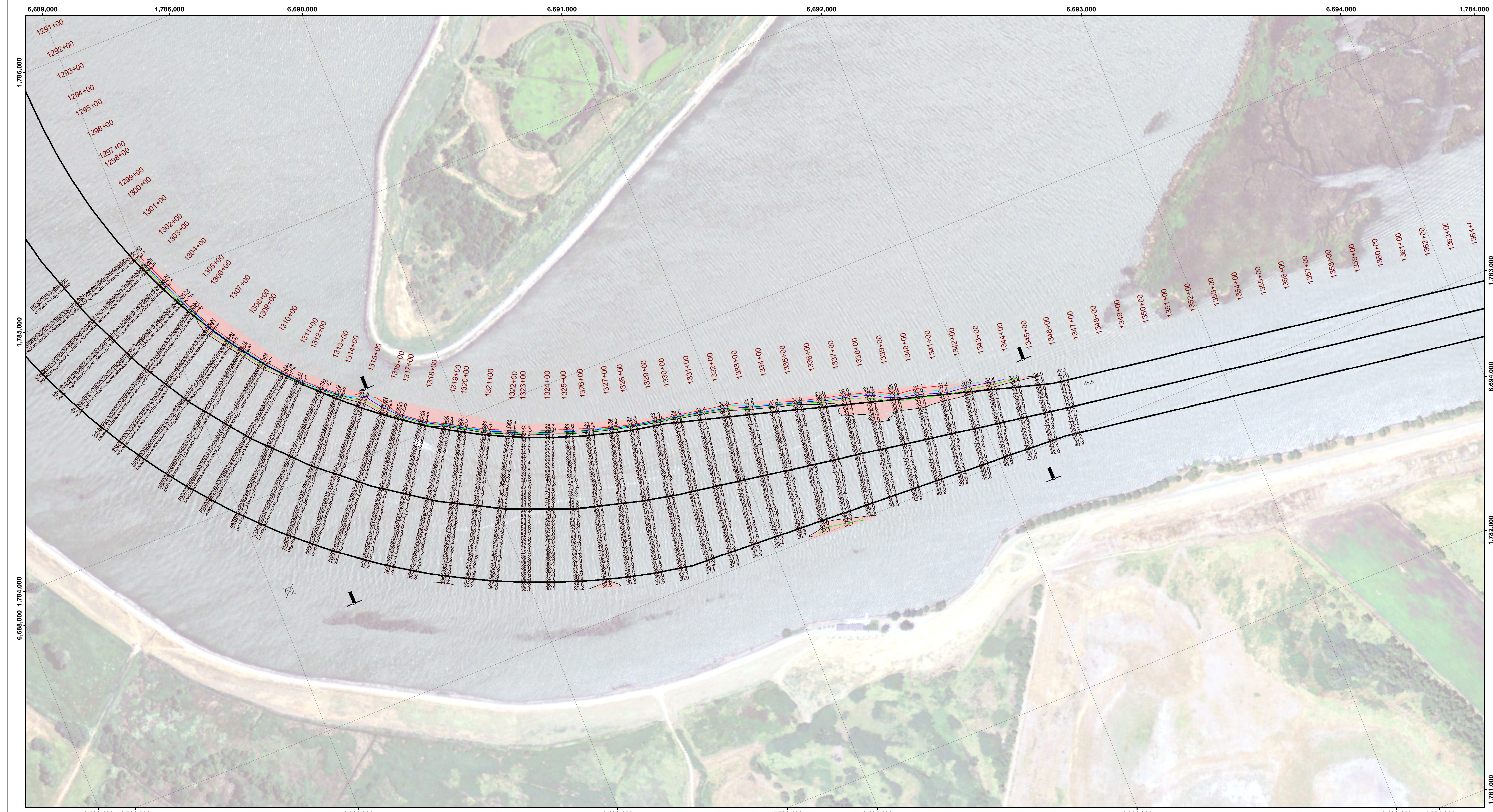


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Chart Date:	Oct 16, 2020
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

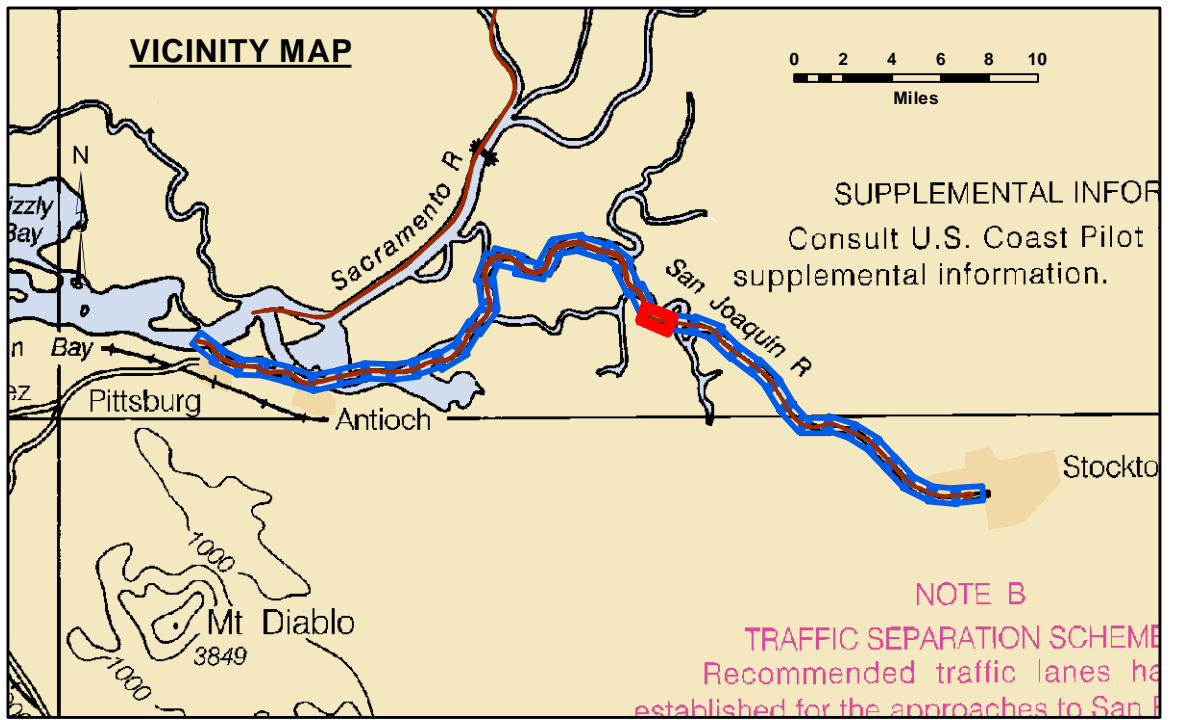
Sheet Reference Number
23 of 39



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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 16, 2020
Supervised By: Hydro Survey Team Leader	Designed by: PDT
Plotted by: PDT	Drawn by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	



LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	⊠ Anchorage Area	— -33	
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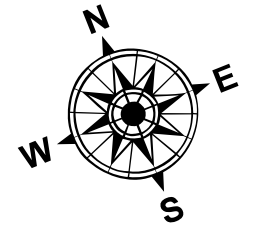


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VERTICAL DATUM: MLLW
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LOCATION: ANTIOCH
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BENCHMARK: 5064-F (No PID)
TIDE GAUGE:
NAIL @ 10.15 FT MLLW
LAT: 38 01 6.9393 N
LONG: 121 48 56.7074 W

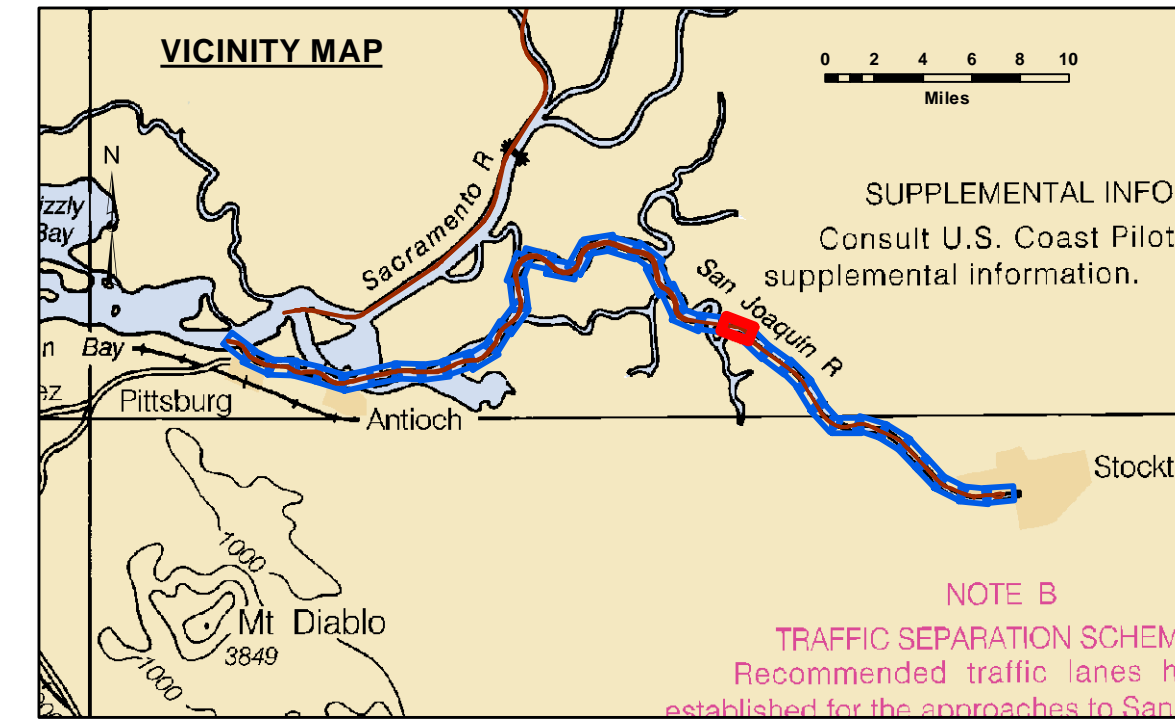
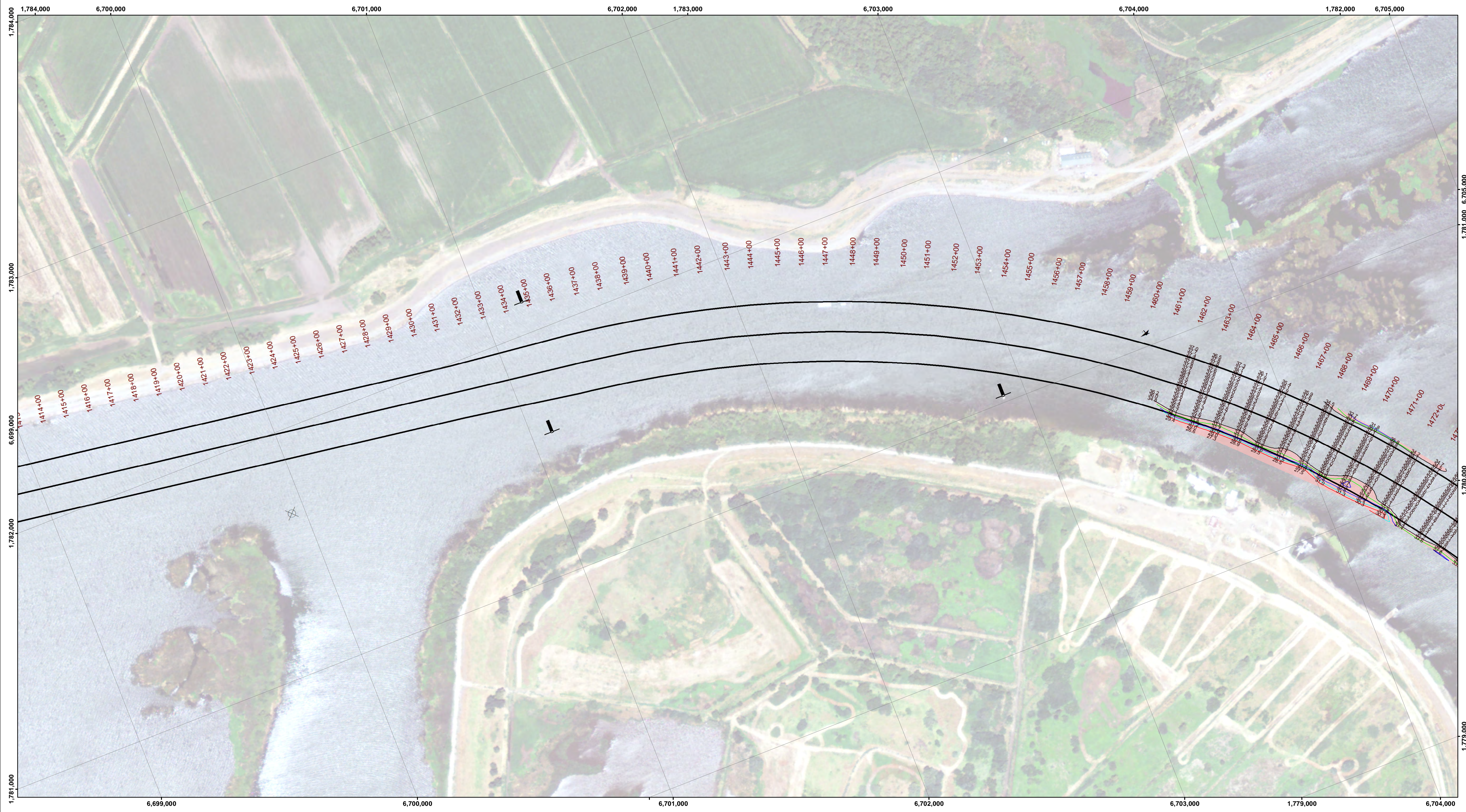
LOCATION: PORT OF STOCKTON
NOAA STATION: 941 4867
BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
TIDE GAUGE:
NAIL @ 10.0 FT MLLW
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DAY MARKER 27 = 9.0 FT MLLW
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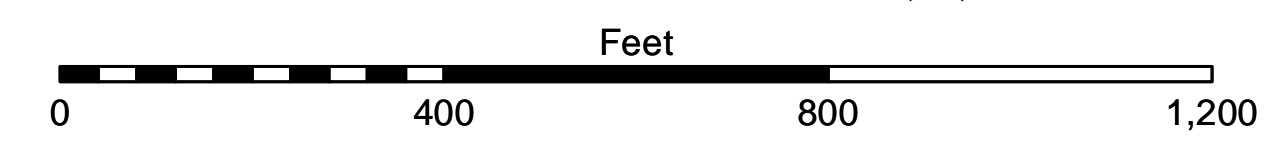


CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet
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LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
⋯ Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✦ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⬇ Beacon, General		
	♦ Red Navigation Buoy		
	◆ Green Navigation Buoy		

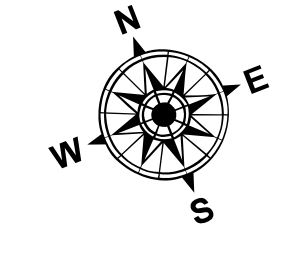


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THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

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

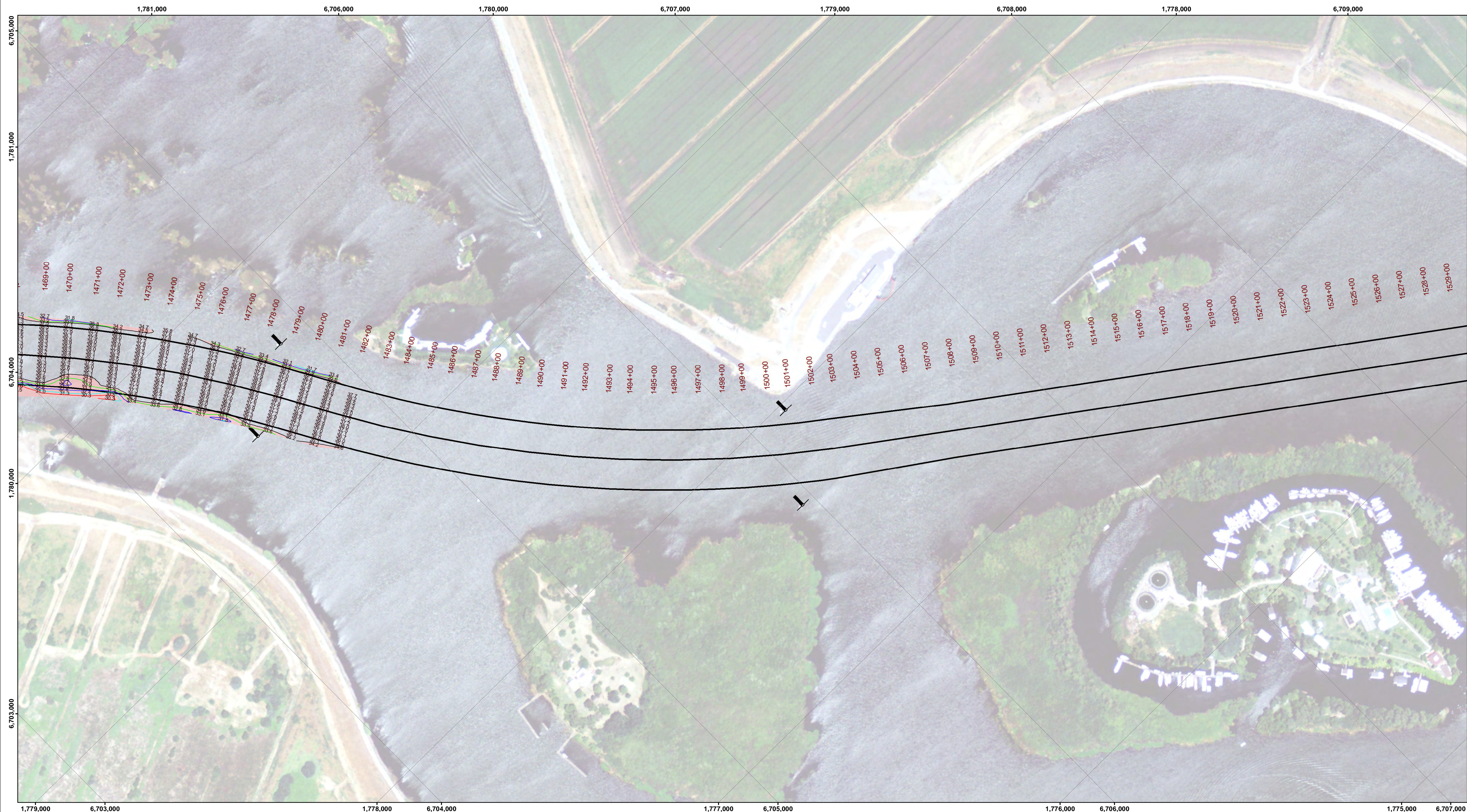


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 16, 2020
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted by: PDT	Drawn by: PDT
Checked by: PDT	
Approved: Chief, Construction Branch	

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
26 of 39



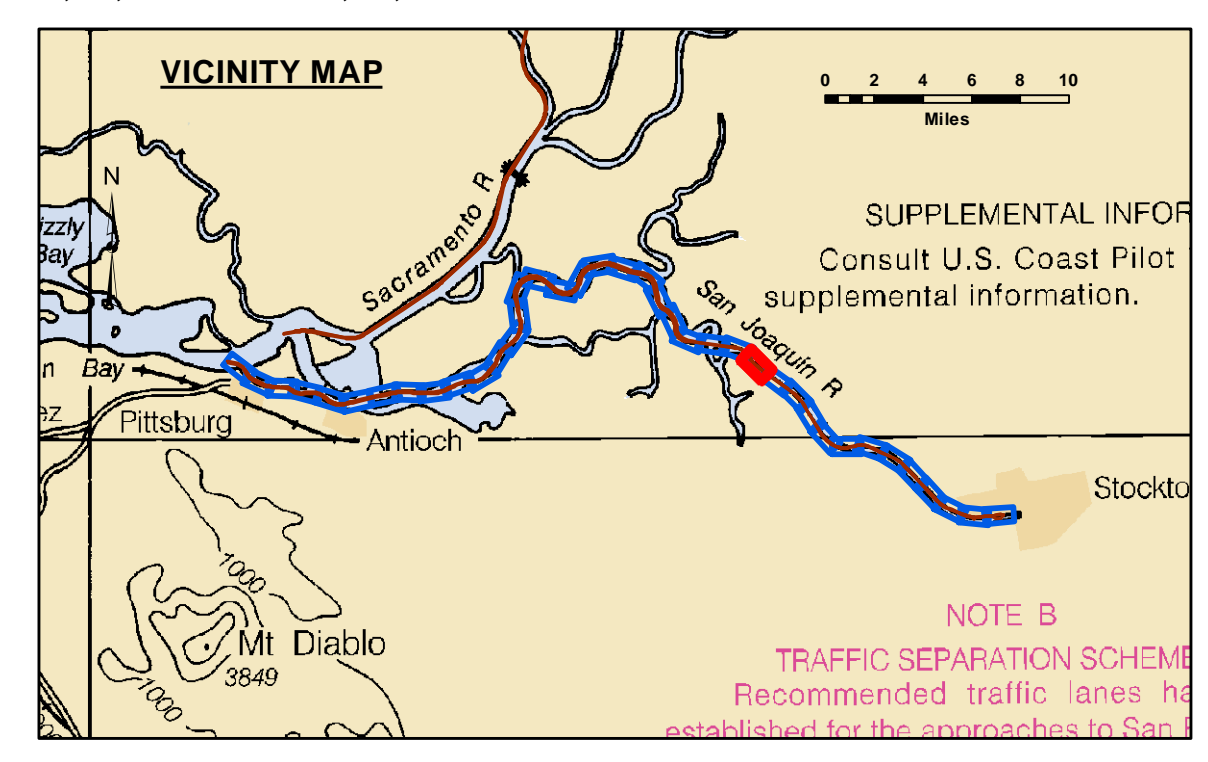
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Chart Date:	Oct 16, 2020
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Approved:	PDT

CALIFORNIA
 STOCKTON RIVER
 CONDITION SURVEY
 25-27 SEPTEMBER 2020

Sheet Reference Number
 27 of 39



0 400 800 1,200 Feet

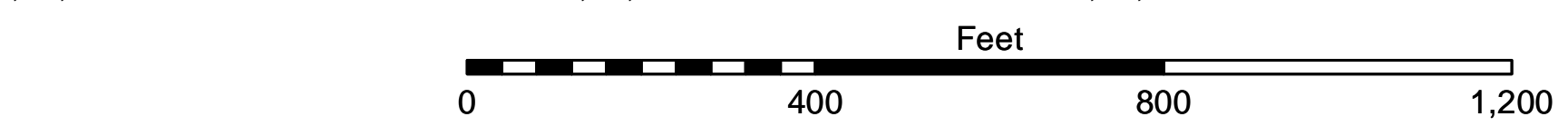
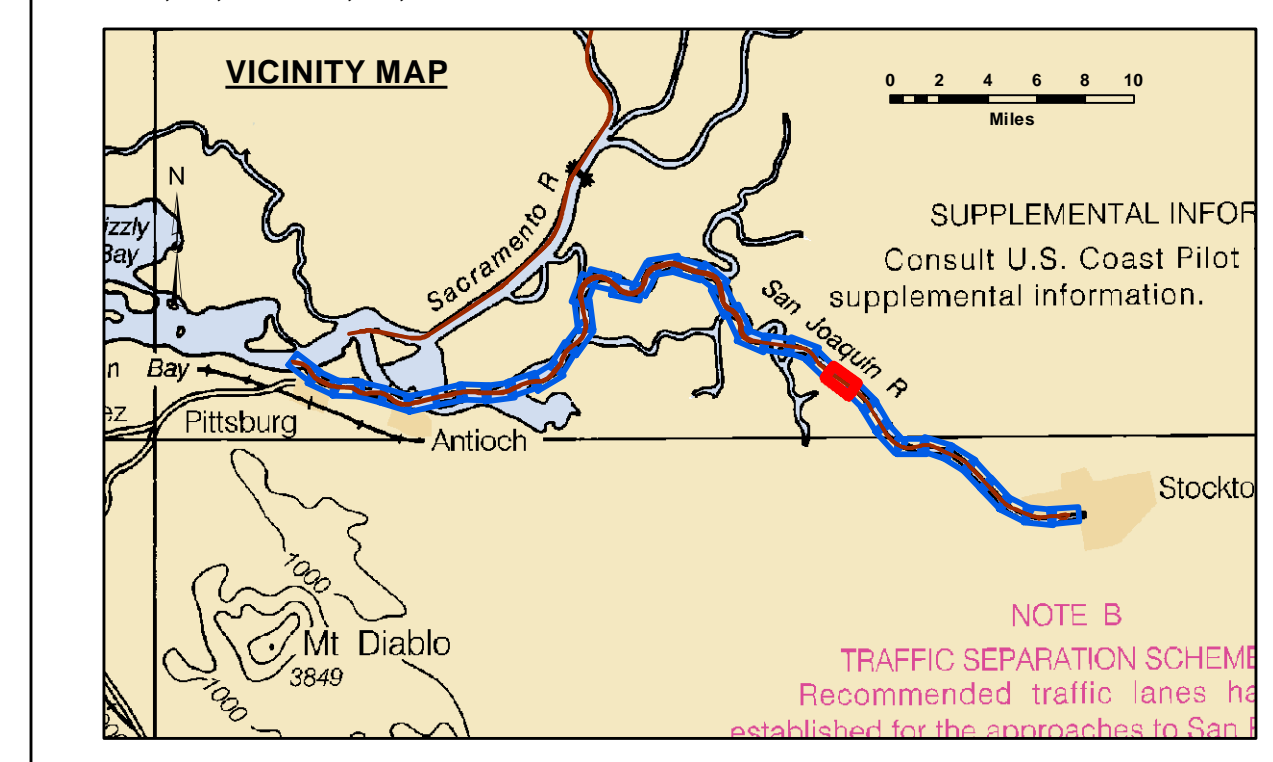
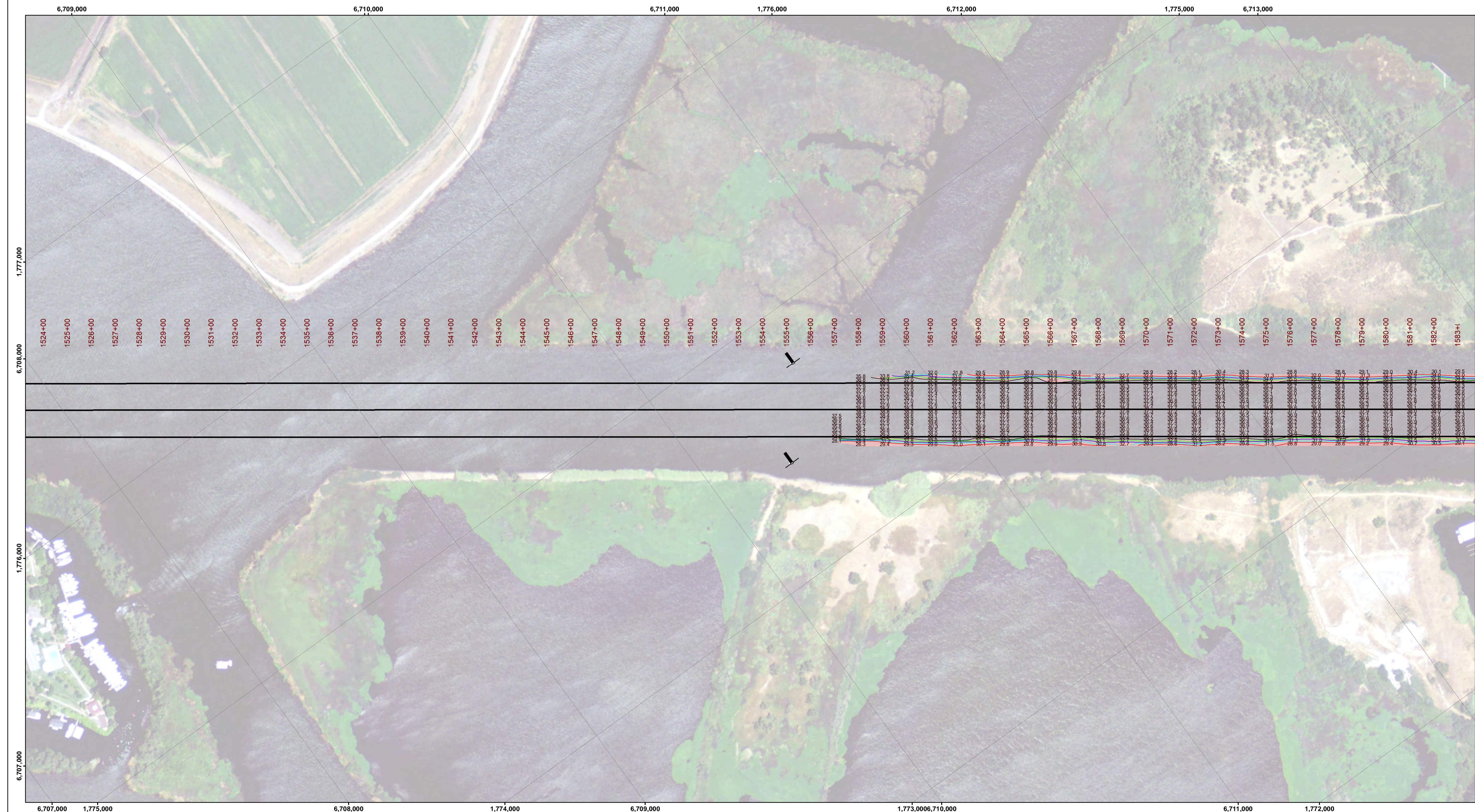
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
	● Shoalest Sounding**		
	⬇ Beacon, General		
	♦ Red Navigation Buoy		
	◆ Green Navigation Buoy		

NOTES:
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 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
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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 TIG #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

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



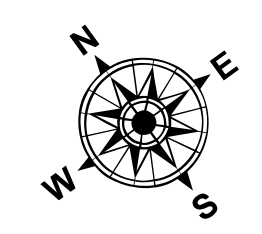
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
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- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		◆ Green Navigation Buoy	

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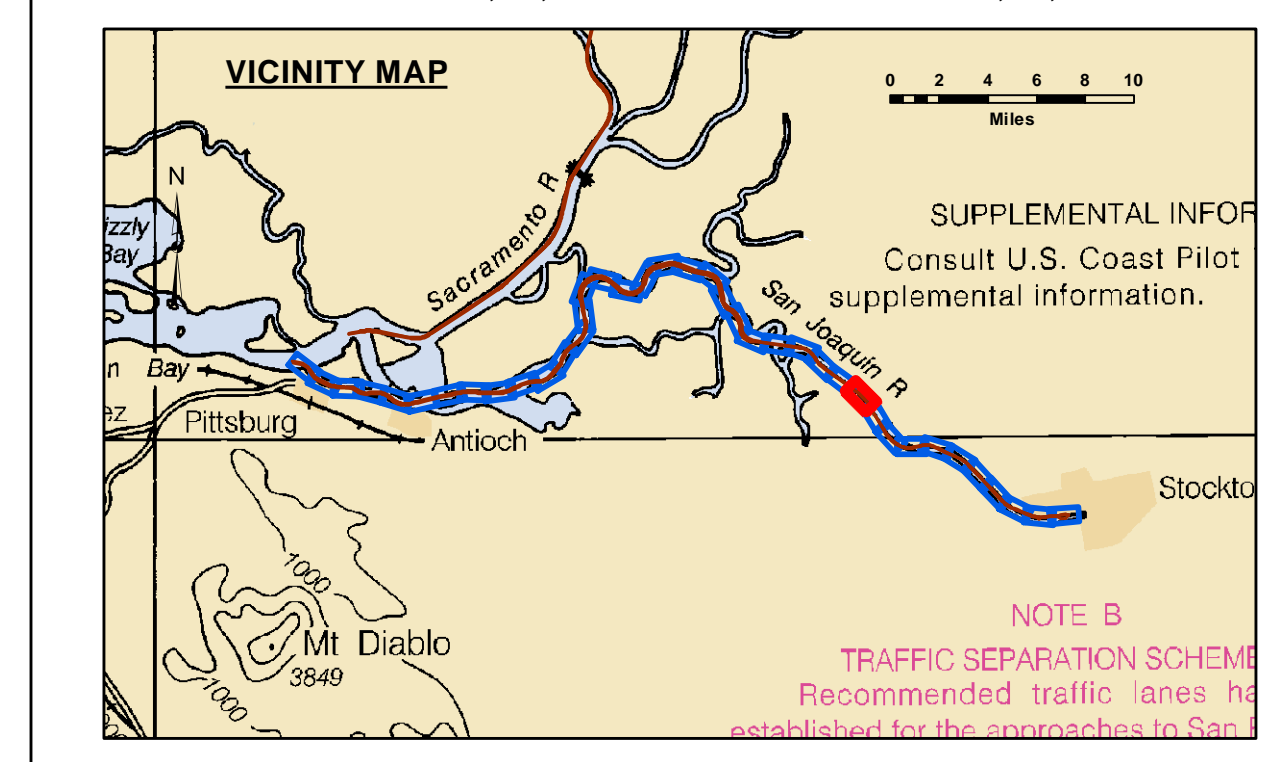
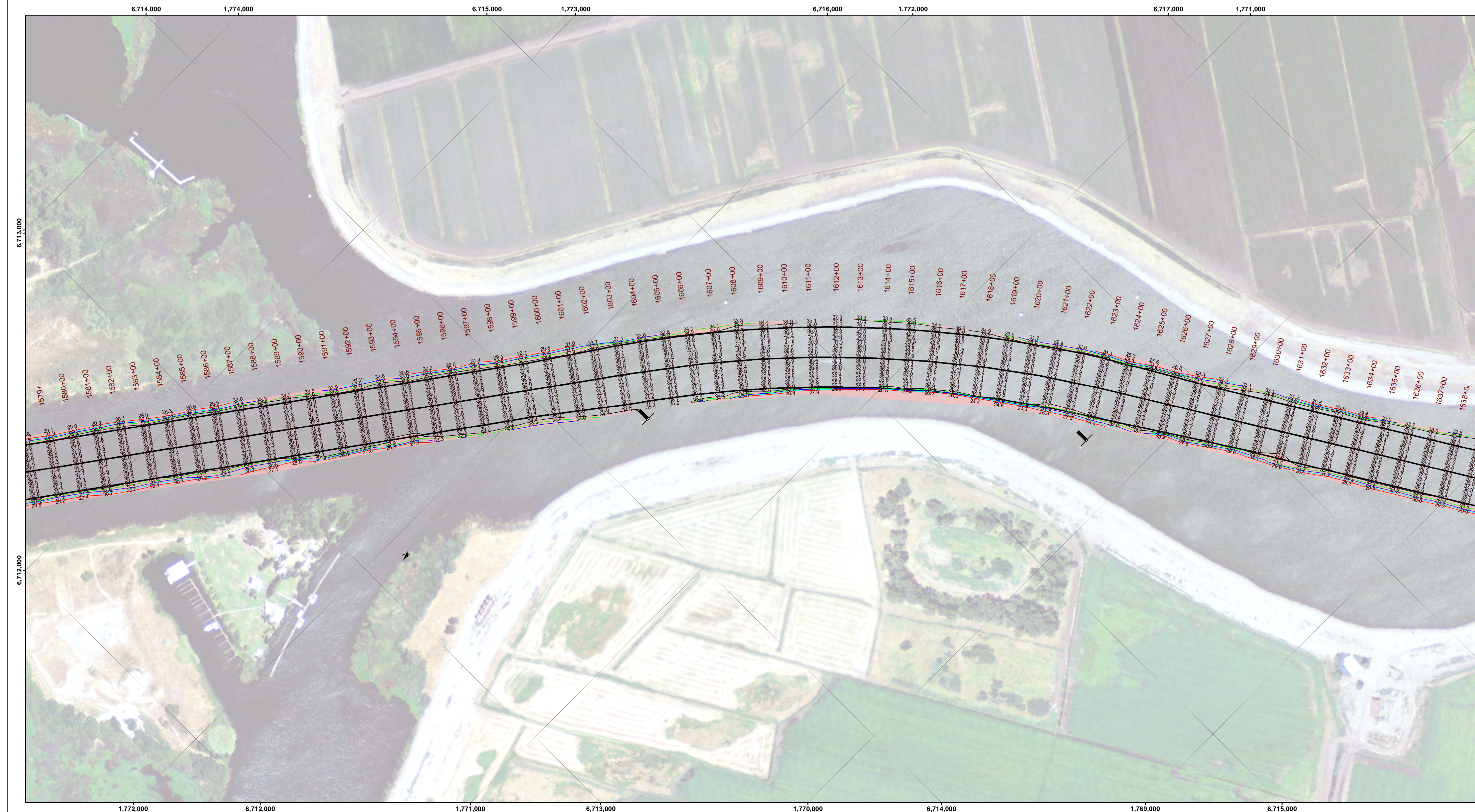


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E. District Engineer	Chart Date: Oct 16, 2020
Supervised By: Hydro Survey Team Leader	Designed by: PDT
Plotted by: PDT	Checked by: PDT
Drawn by: PDT	

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
28 of 39



Feet
0 400 800 1,200

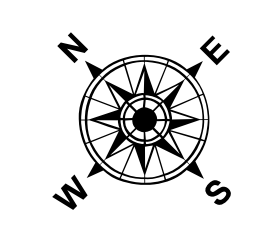
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
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		● Shoalest Sounding**	
		⬇ Beacon, General	
		♦ Red Navigation Buoy	
		◆ Green Navigation Buoy	

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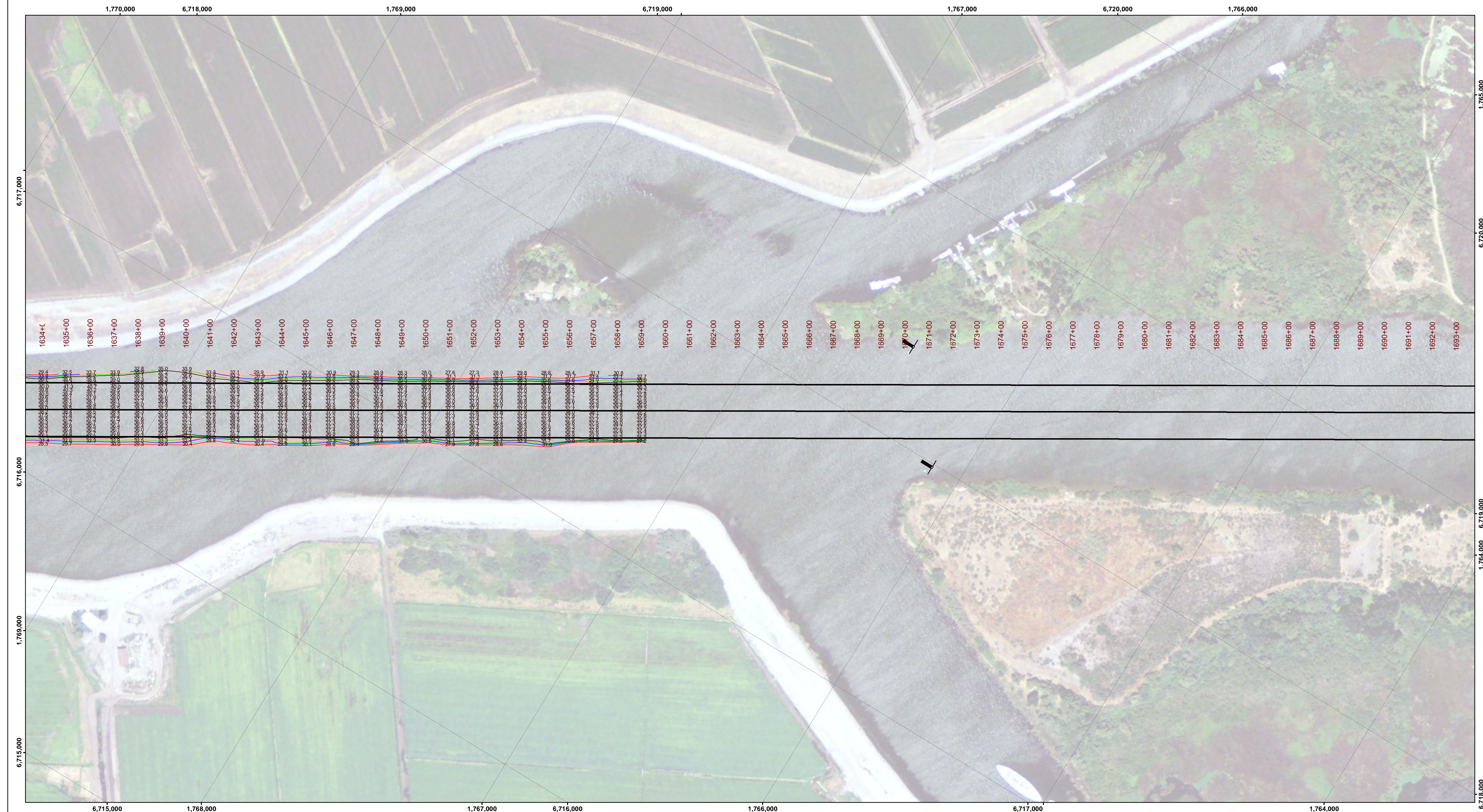


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Chart Date:	Oct 16, 2020
Surveyed By:	
Designed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
29 of 39



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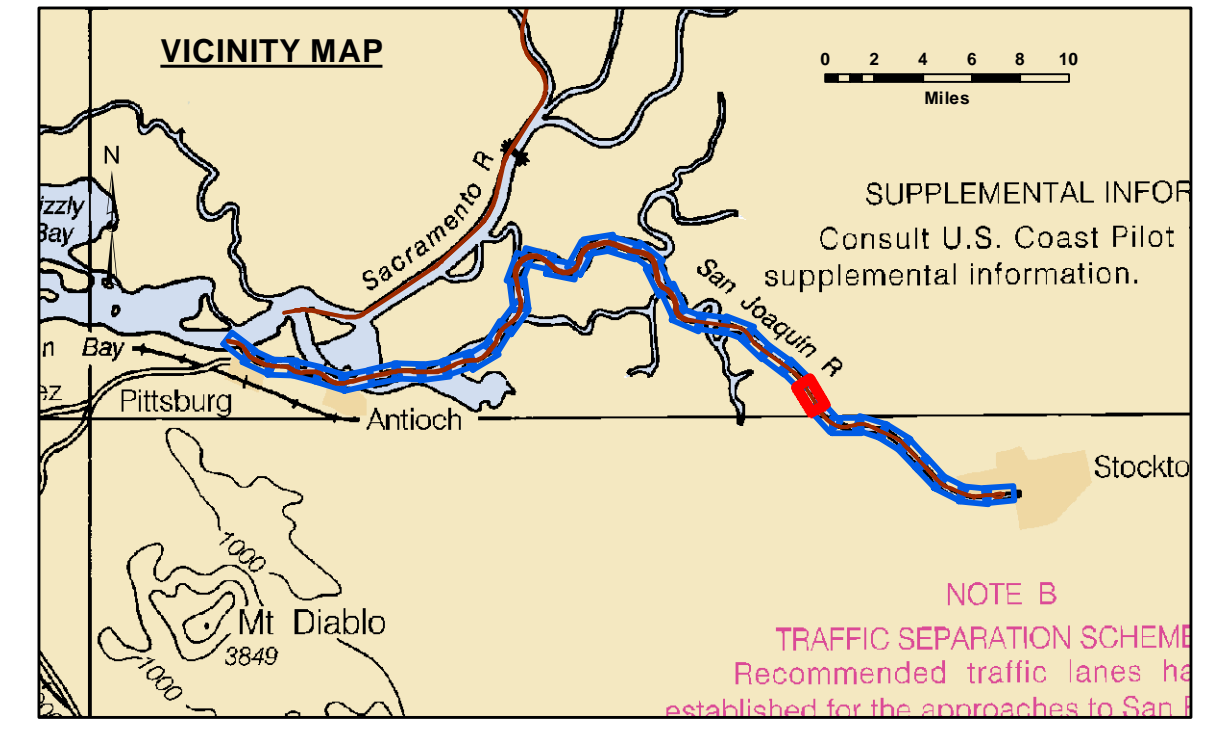
Chart Date:	Oct 16, 2020
Designed by:	PDT
Drawn by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT

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

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

CALIFORNIA
STOCKTON RIVER
 CONDITION SURVEY
 25-27 SEPTEMBER 2020

SAN JOAQUIN COUNTY
Sheet Reference Number
30 of 39



Feet
0 400 800 1,200

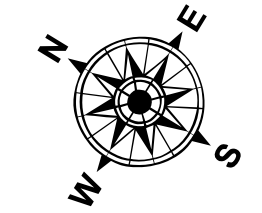
LEGEND		Contours	
--- Federal Navigation Channel	▨ Cable Area	— -35	
— Federal Navigation Center Line	□ Placement Area	— -34	
..... Cable Submarine	▭ Anchorage Area	— -33	
- - - Cable Overhead	⊗ Obstruction Point	— -32	
— Contour Line	✈ Wrecks-Submerged	— -31	
		● Shoalest Sounding**	
		⌵ Beacon, General	
		♦ Red Navigation Buoy	
		◆ Green Navigation Buoy	
		■ Shoaling Area	

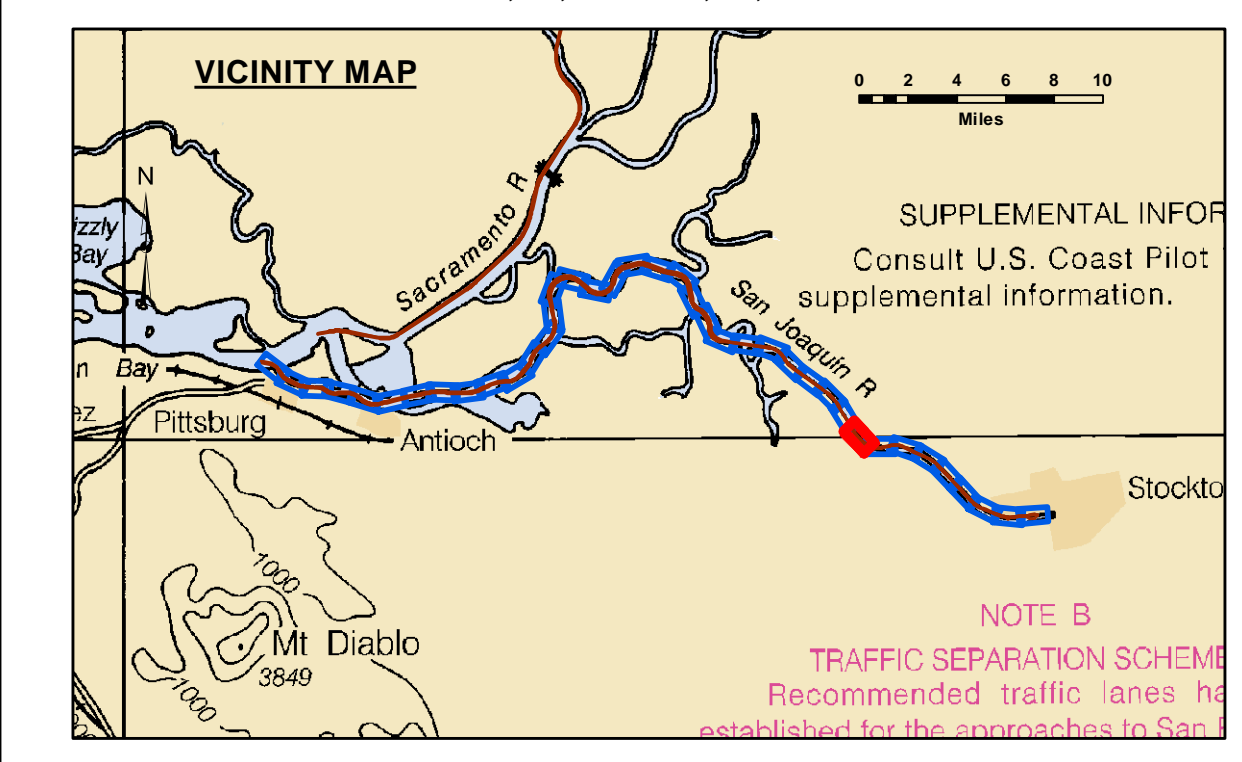
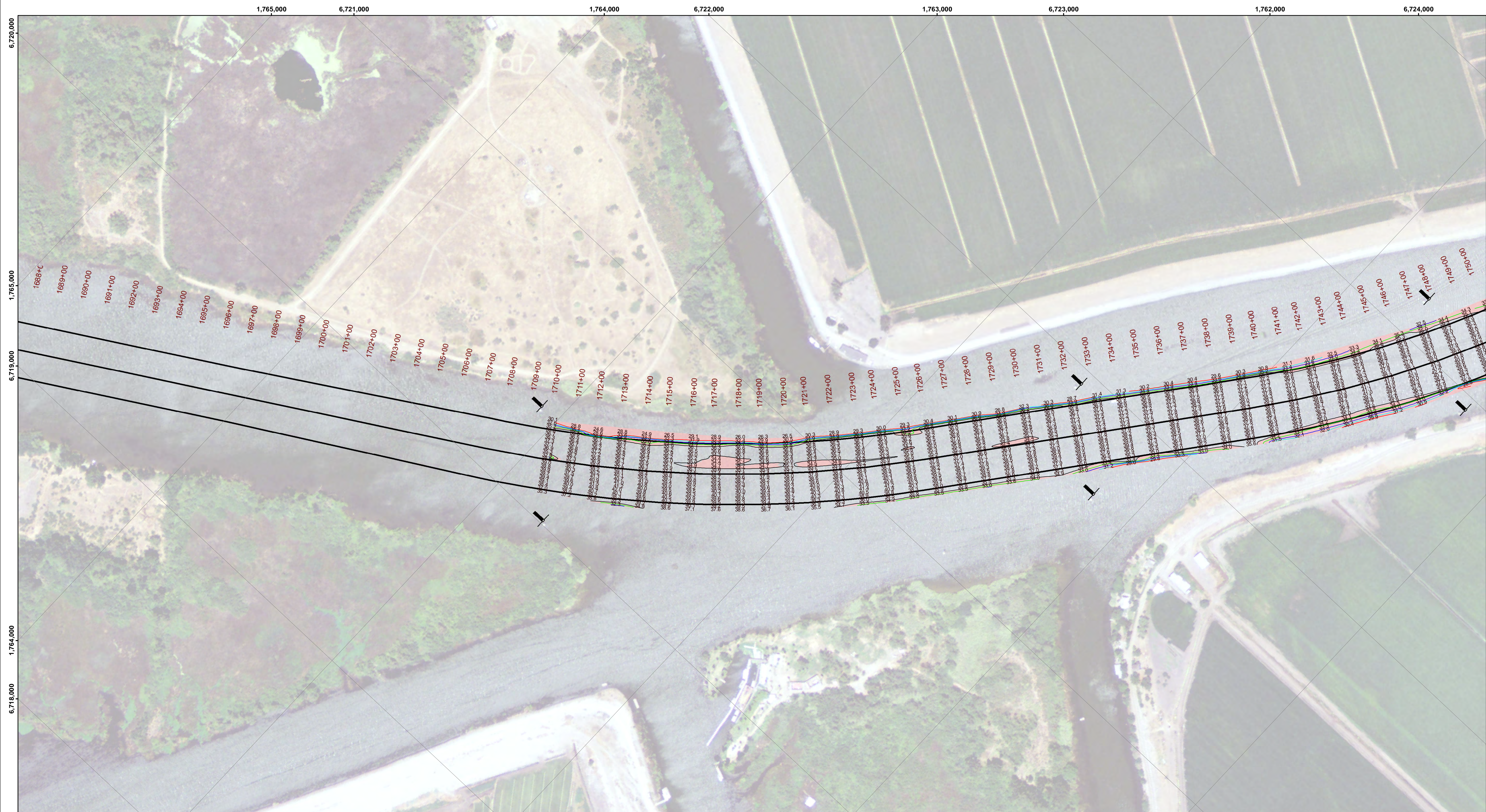
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 NOAA STATION: 941 4867
 BENCHMARK: 941 4867 TIDAL 2 (PID: HS0439)
 TIDE GAUGE:
 NAIL @ 10.0 FT MLLW
 LAT: 37 55 44.62 N
 LONG: 121 19 40.74 W

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CONTROLS:
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 BENCHMARK: 5064-F (No PID)
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 LAT: 38 01 6.9393 N
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Feet
0 400 800 1,200

LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
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— Contour Line	✈ Wrecks-Submerged	◆ Green Navigation Buoy

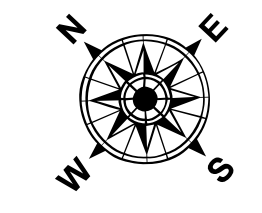
Contours	
—	-35
—	-34
—	-33
—	-32
—	-31

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LAT: 38 01 6.9393 N
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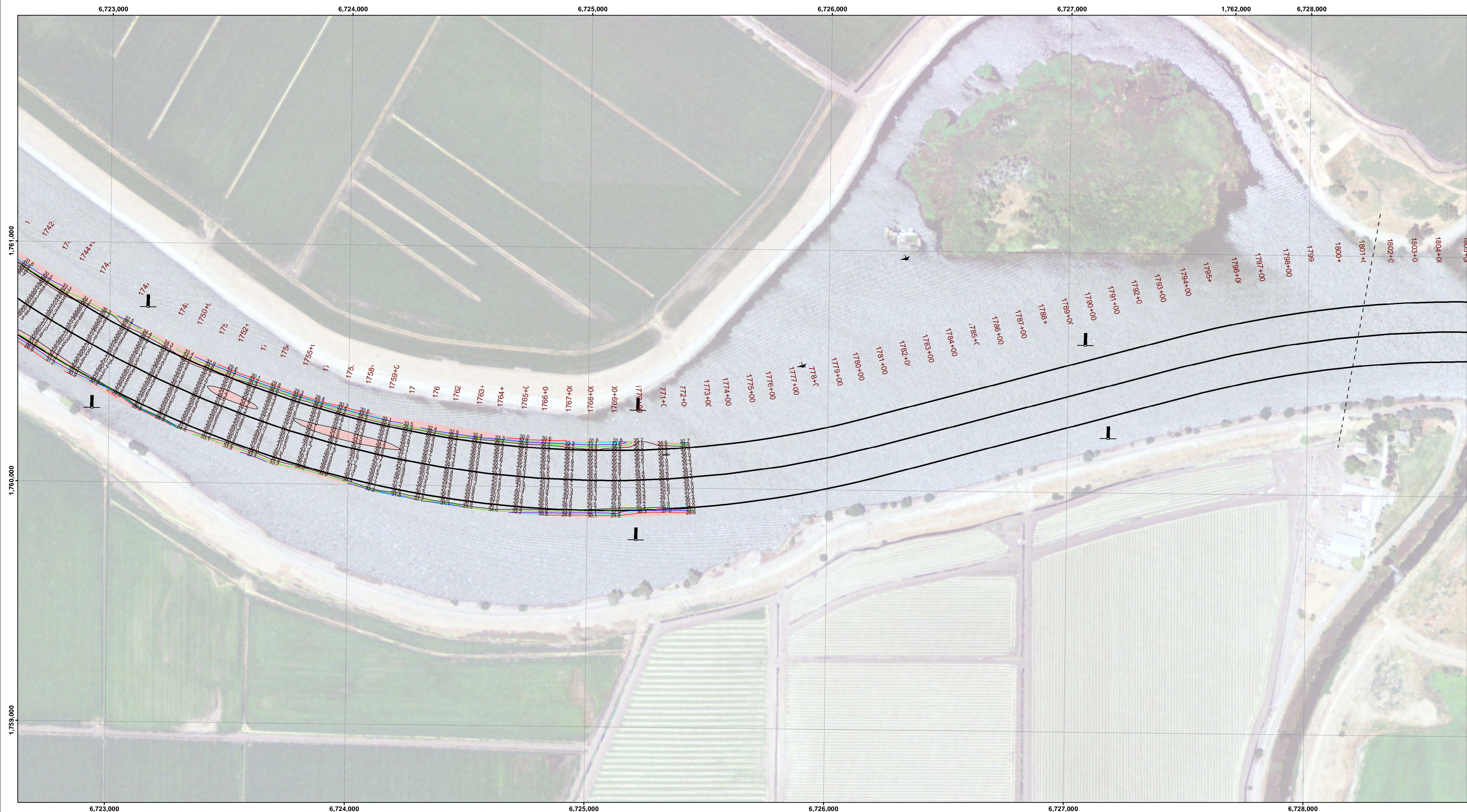


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PREPARED UNDER THE DIRECTION OF JOHN D. CUNNINGHAM LT. COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 16, 2020
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Checked by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

SAN JOAQUIN COUNTY
Sheet Reference Number
31 of 39



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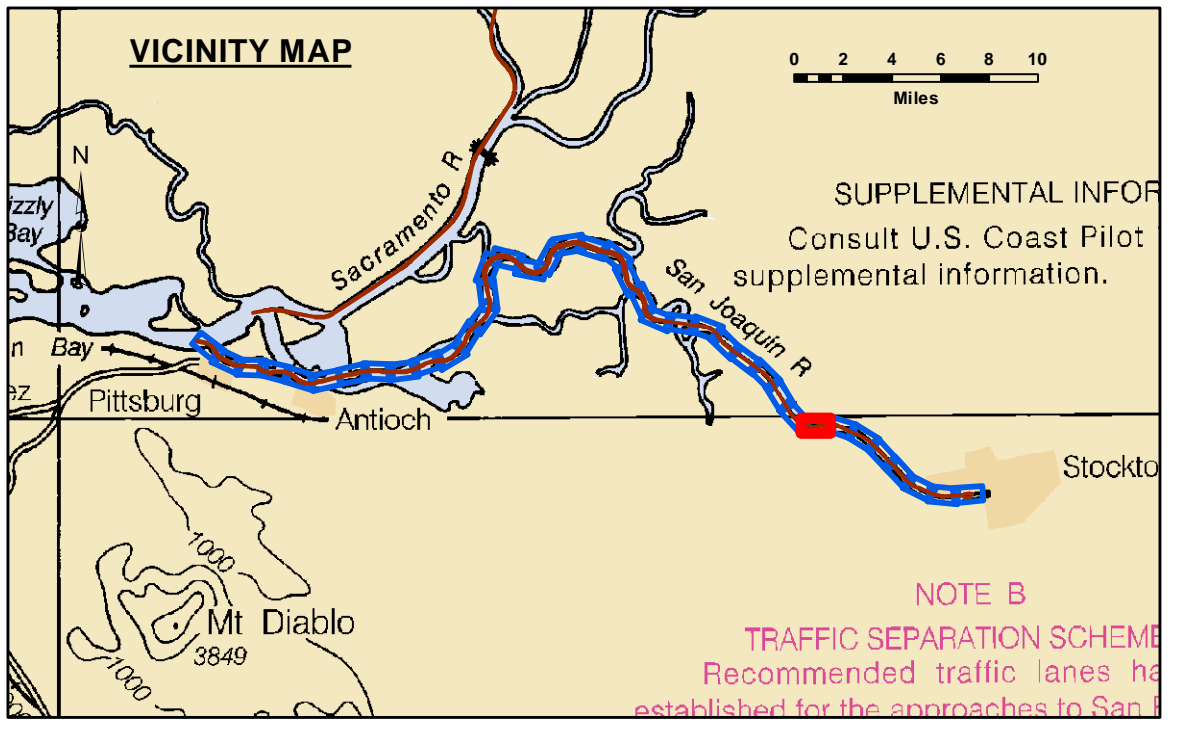
Chart Date:	Oct 16, 2020
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT

CALIFORNIA

SAN JOAQUIN COUNTY

STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
32 of 39



LEGEND		
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**
⋯ Cable Submarine	⊠ Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊗ Obstruction Point	◆ Red Navigation Buoy
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Contours	
—	-35
—	-34
—	-33
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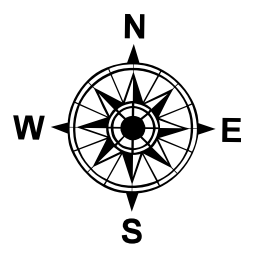
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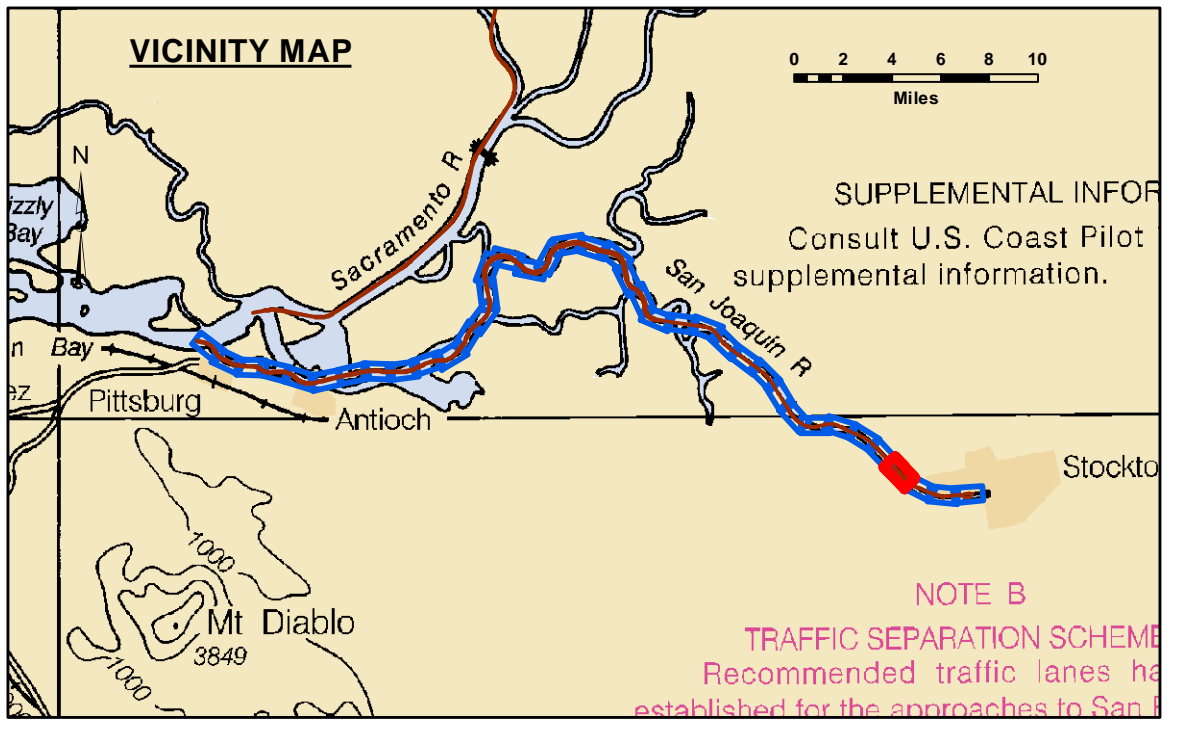
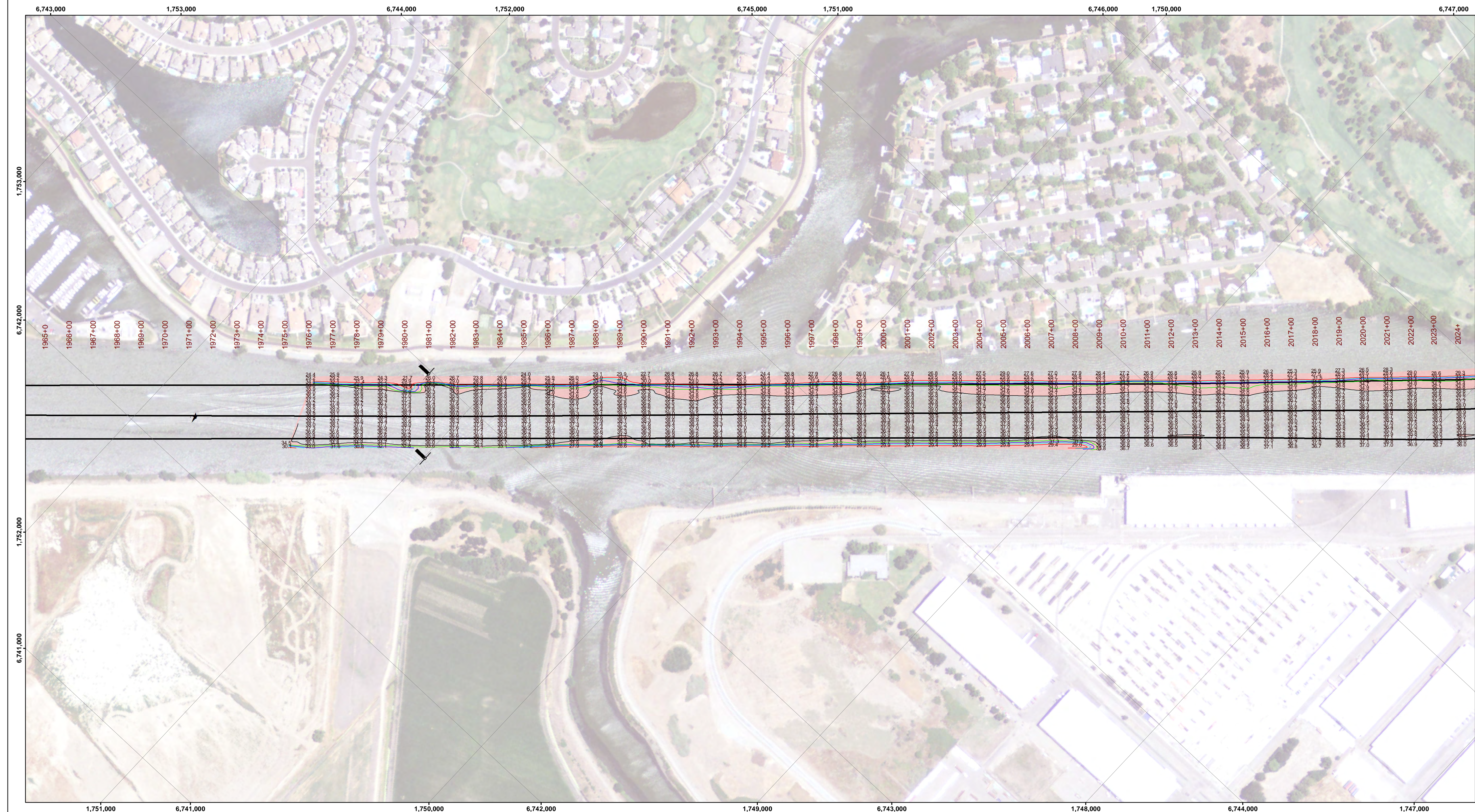
PROJECT DEPTH: -35'
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Feet
0 400 800 1,200

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
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- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
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DAY MARKER 27 = 9.0 FT MLLW
DAY MARKER 29 = 9.0 FT MLLW
PORT OF STOCKTON TQ #2 (37.951 N, 121.334 W) = 10.0 FT MLLW

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



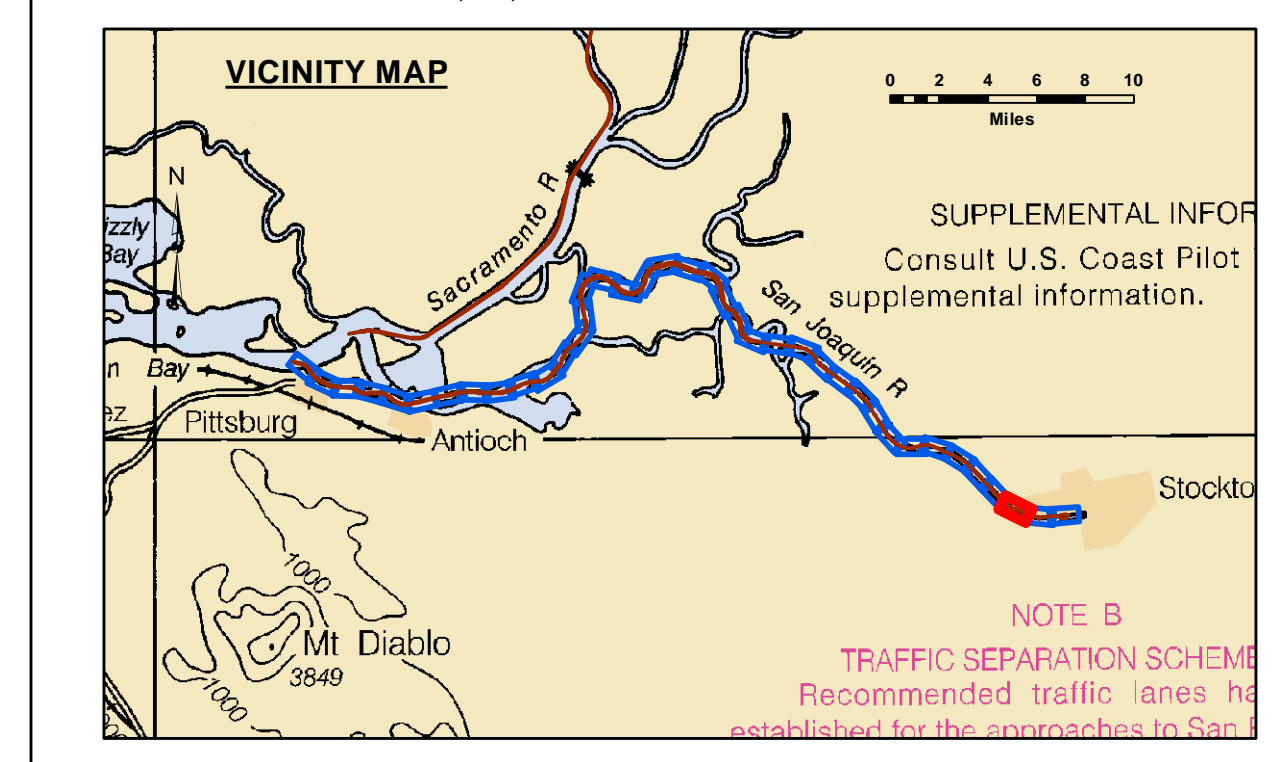
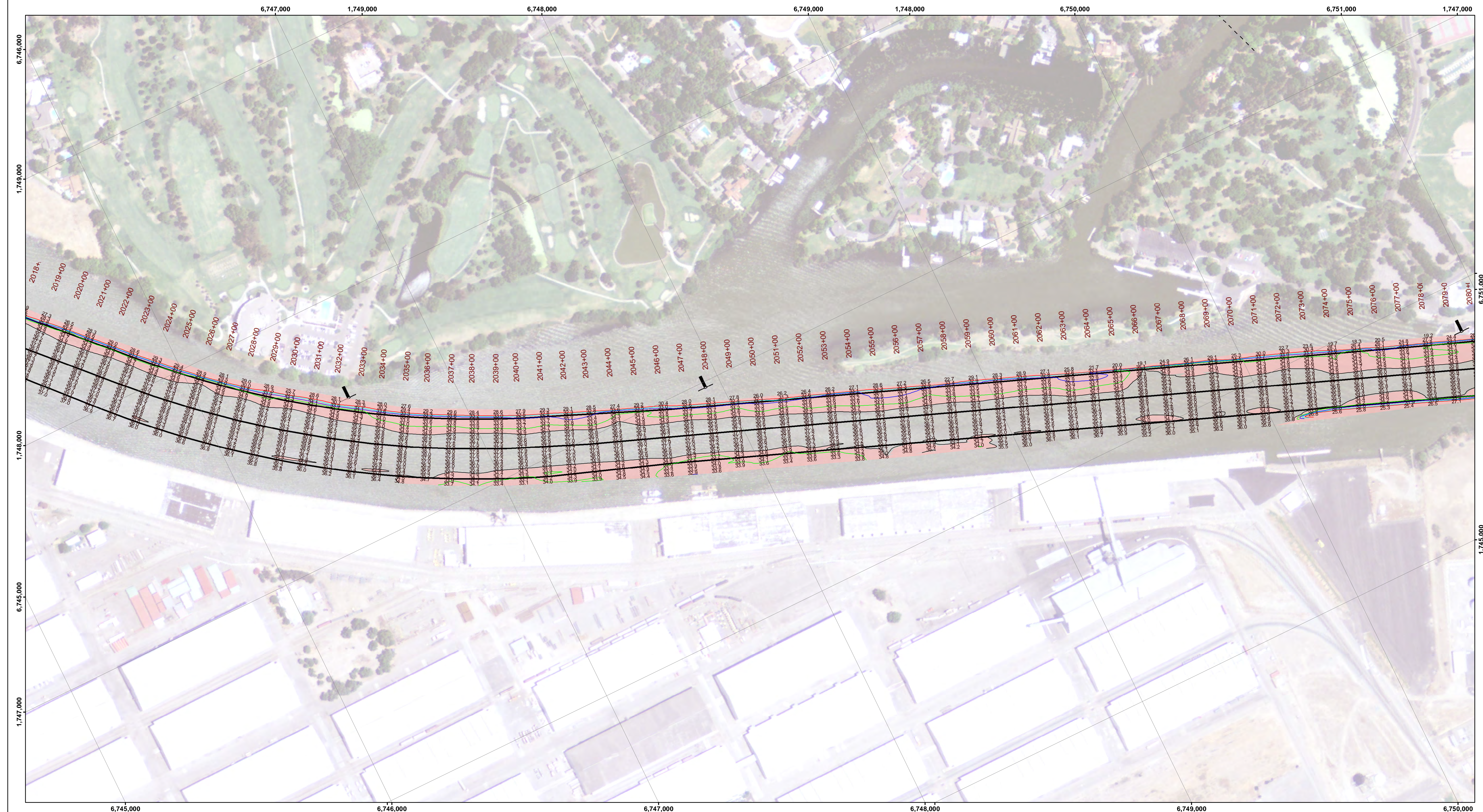
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Prepared Under the Direction of JOHN D. CUNNINGHAM LT Colonel, C.E. District Engineer	Chart Date: Oct 16, 2020
Survised By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
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LEGEND

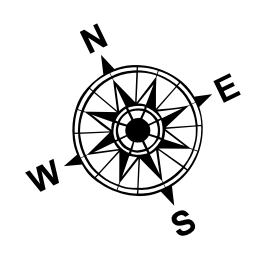
--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area	— Contours
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	— -35
⋯ Cable Submarine	⊠ Anchorage Area	⬇ Beacon, General	— -34
- - - Cable Overhead	⊗ Obstruction Point	♦ Red Navigation Buoy	— -33
— Contour Line	✦ Wrecks-Submerged	◆ Green Navigation Buoy	— -32
			— -31

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

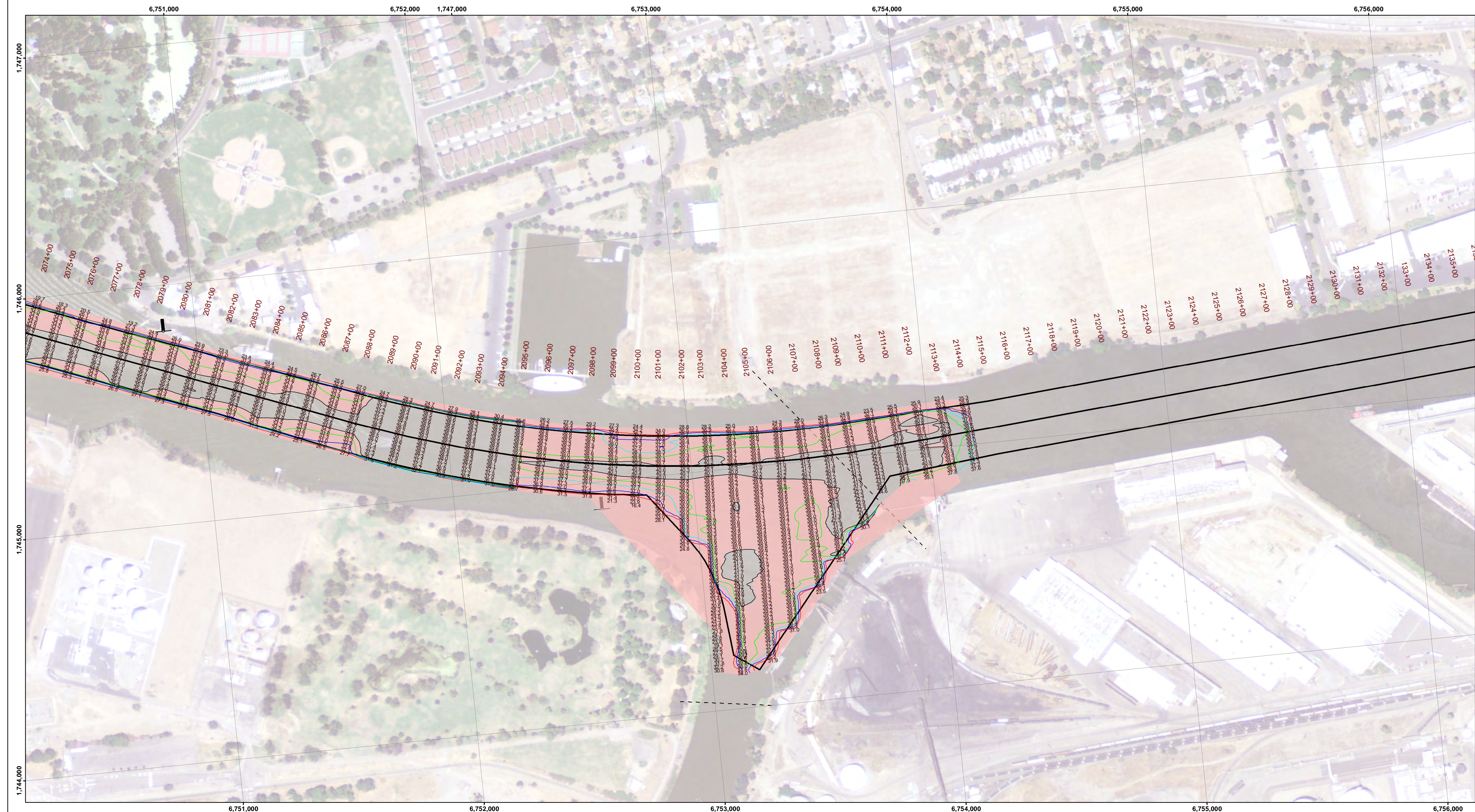


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 16, 2020
Surveyed By: Hydro Survey Team Leader	Designed by: PDT
Plotted By: PDT	Drawn by: PDT
Checked By: PDT	

CALIFORNIA
SAN JOAQUIN COUNTY
STOCKTON RIVER
CONDITION SURVEY
25-27 SEPTEMBER 2020

Sheet Reference Number
37 of 39



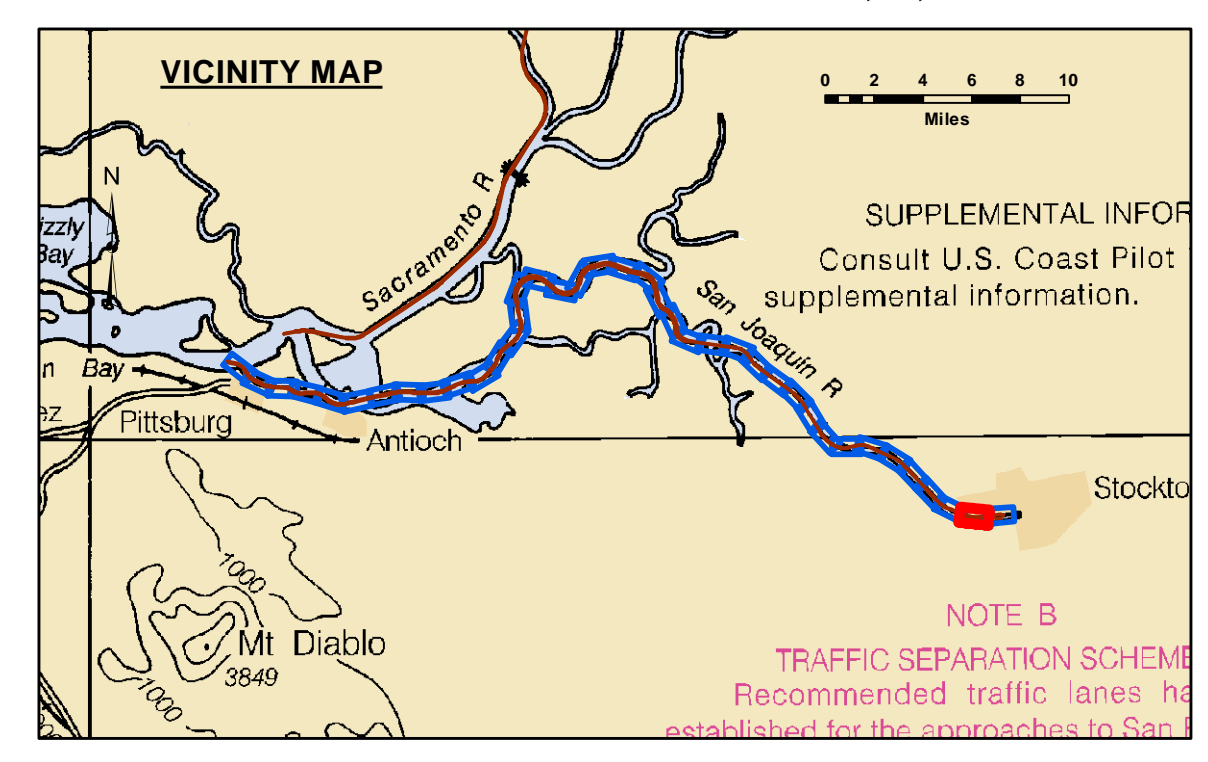
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Chart Date:	Oct 01, 2020
Designed by:	
Drawn by:	PDT
Surveyed By:	
Plotted By:	PDT
Checked By:	PDT

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

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

CALIFORNIA
STOCKTON RIVER
 SEDIMENT TRAP
 CONDITION SURVEY
 25-27 SEPTEMBER 2020



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

Contours	
—	-40
—	-39
—	-38
—	-37
—	-36

NOTES:
 DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY.
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 PROJECT DEPTH: -35'
 VERTICAL DATUM: MLLW
 THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD

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
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CONTROLS:
 LOCATION: ANTIOCH
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 TIDE GAUGE:
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