

Appendix B

Freeboard Profiles

Appendix B

--Page initially blank--

1. Overview to Appendix B

Recent hydraulic modeling studies have provided 100-year (1 percent annual chance of occurrence) and 200-year (0.5 percent annual chance of occurrence) flood profiles for several urban channels in the Lower San Joaquin River Region. This appendix shows plots of:

- Water surface profiles
- Three feet above the water surface profiles (an indication of minimum freeboard for FEMA)
- Top of levees for each reach

Comparing the three feet above water surface with top of levees shows where freeboard is adequate.

Recent modeling studies were available for:

- Right levee of the San Joaquin River mainstem (including French Camp Slough and Walthall Slough) for RD 17
- Bear Creek System
- Lower Calaveras System
- Upper Calaveras System

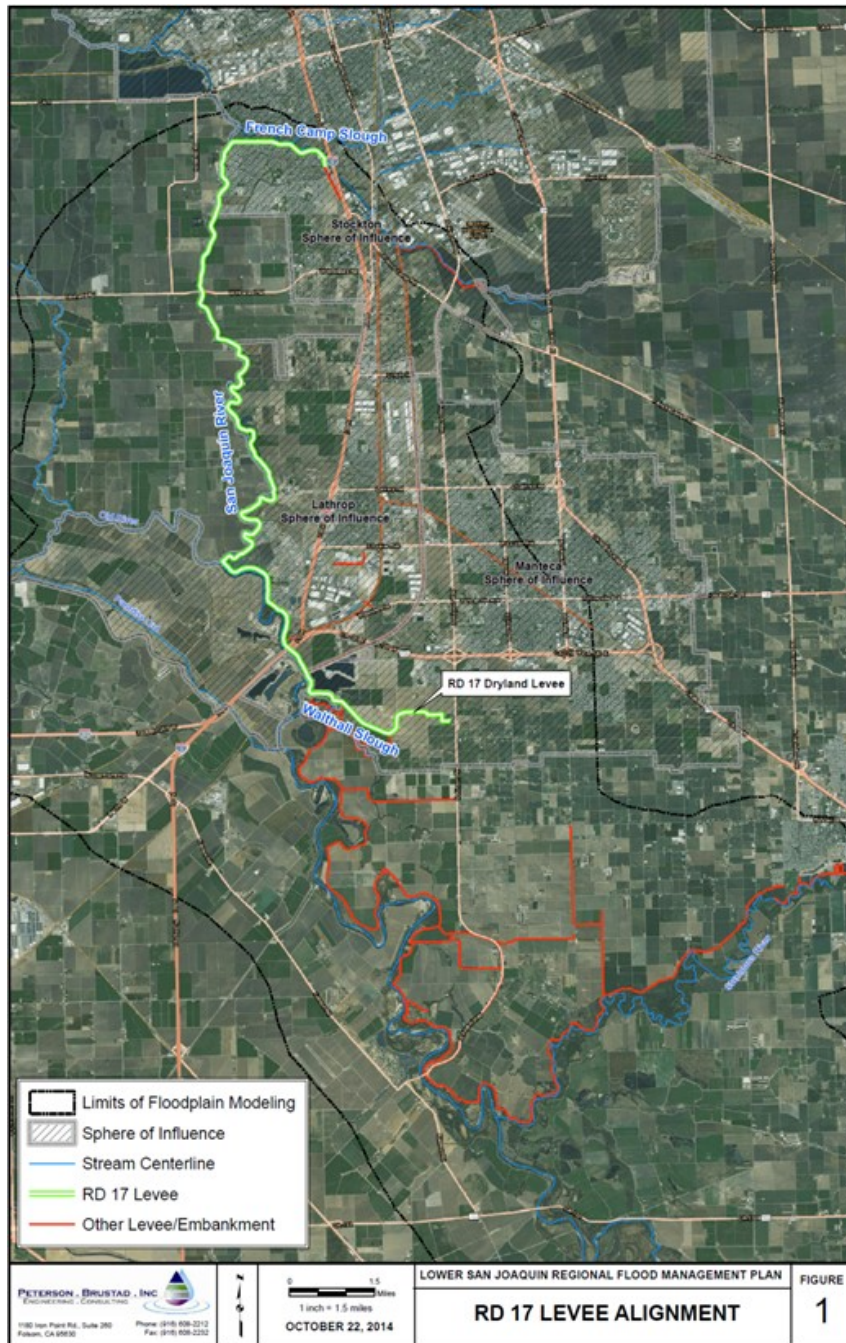
Detailed modeling studies were not available to prepare similar plots for channels in the Delta South Region.

Appendix B

--Page initially blank--

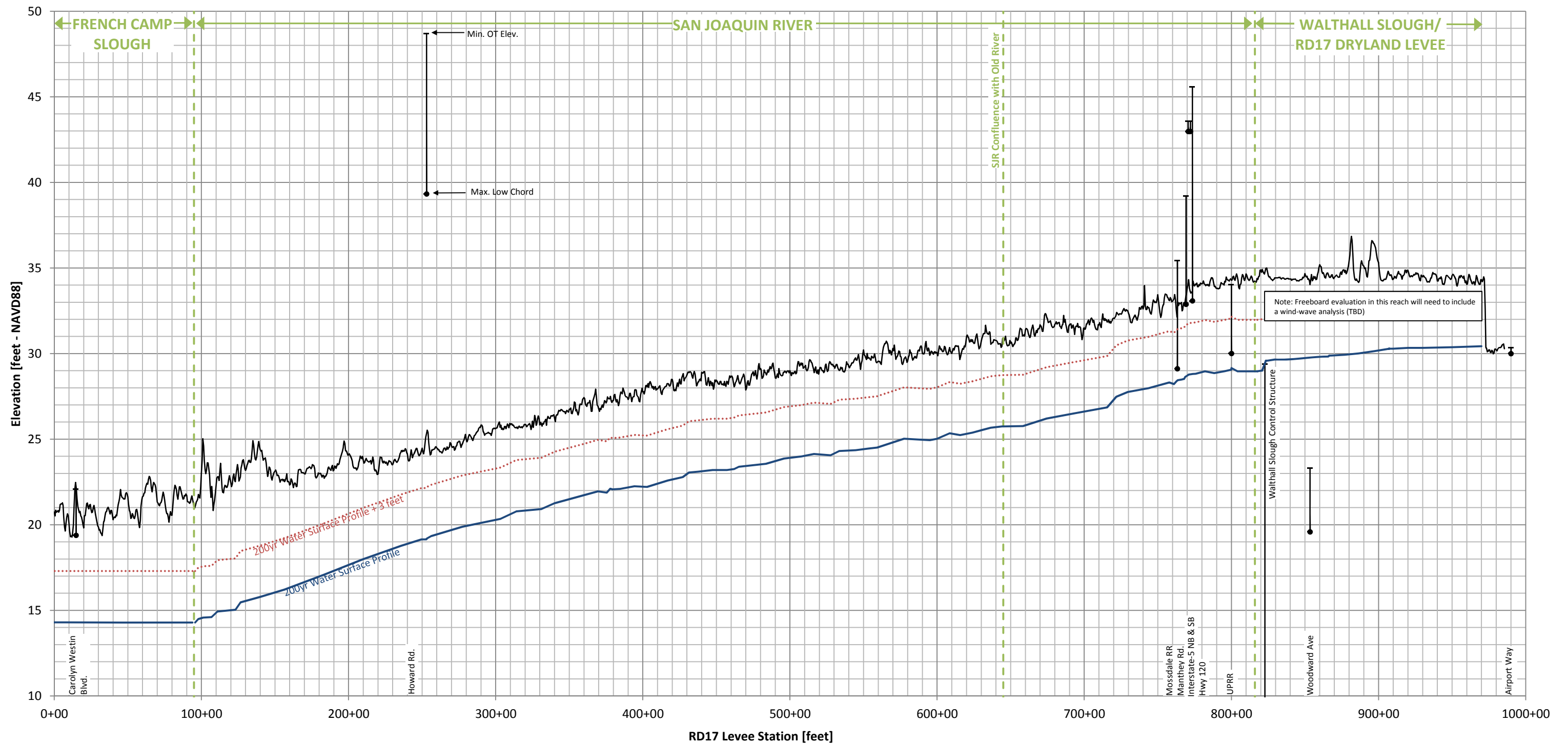
2. San Joaquin River

The 200-year water surface profile along the RD 17 levee alignment is based on modeling by Peterson-Brustad, Inc. for the City of Lathrop/Manteca 200 – Year Plan. The following map shows the RD 17 levee alignment. The profiles are shown on the following pages.



Appendix B

--Page initially blank--



LEGEND

- RD17 Top of Levee (2014 KSN Survey)
- Stream Junction
- Bridge (Max. Low Chord; Min. OT Elev.)
- PBI 200yr WSP
- PBI 200yr WSP + 3 feet

CITY OF LATHROP/MANTECA - 200-YEAR PLAN

200-year Water Surface Profile
along the RD17 Levee Alignment
-EVALUATION OF FREEBOARD-



MAY 16, 2014

FIGURE 27

--Page initially blank--

3. Bear Creek System

The 100-year and 200-year profiles are based on levee accreditation surveys by KSN, Inc. for Bear Creek, Pixley Slough, Paddy Creek, Mosher Diversion & Upper Mosher Creek, dated October 2014.

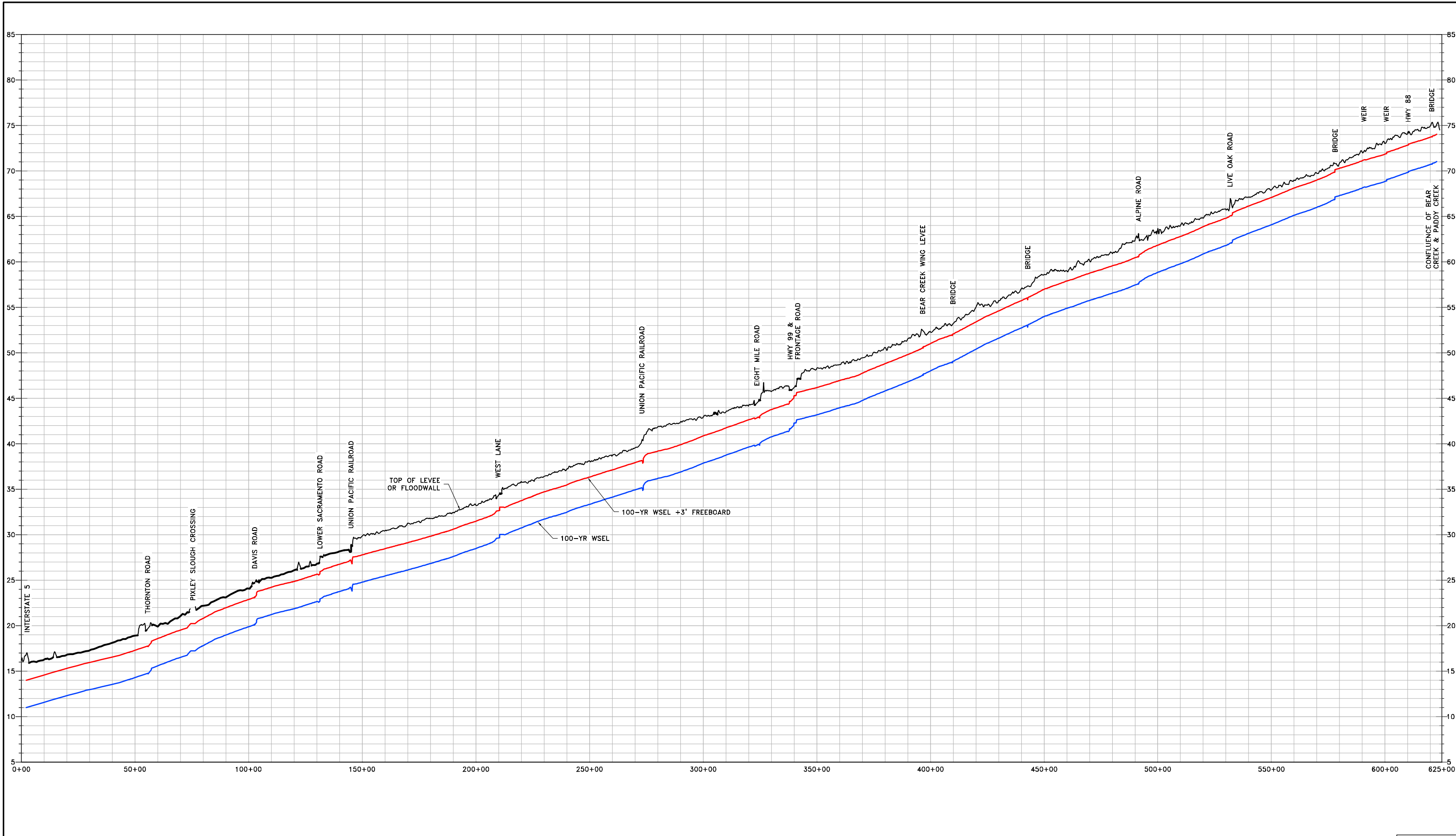
The follow Vicinity Map shows the project area for the levee accreditation surveys. The profiles are shown on the following pages.



Appendix B

--Page initially blank--

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-Cala\veras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:18pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BEAR CREEK
LEVEE ACCREDITATION SURVEYS

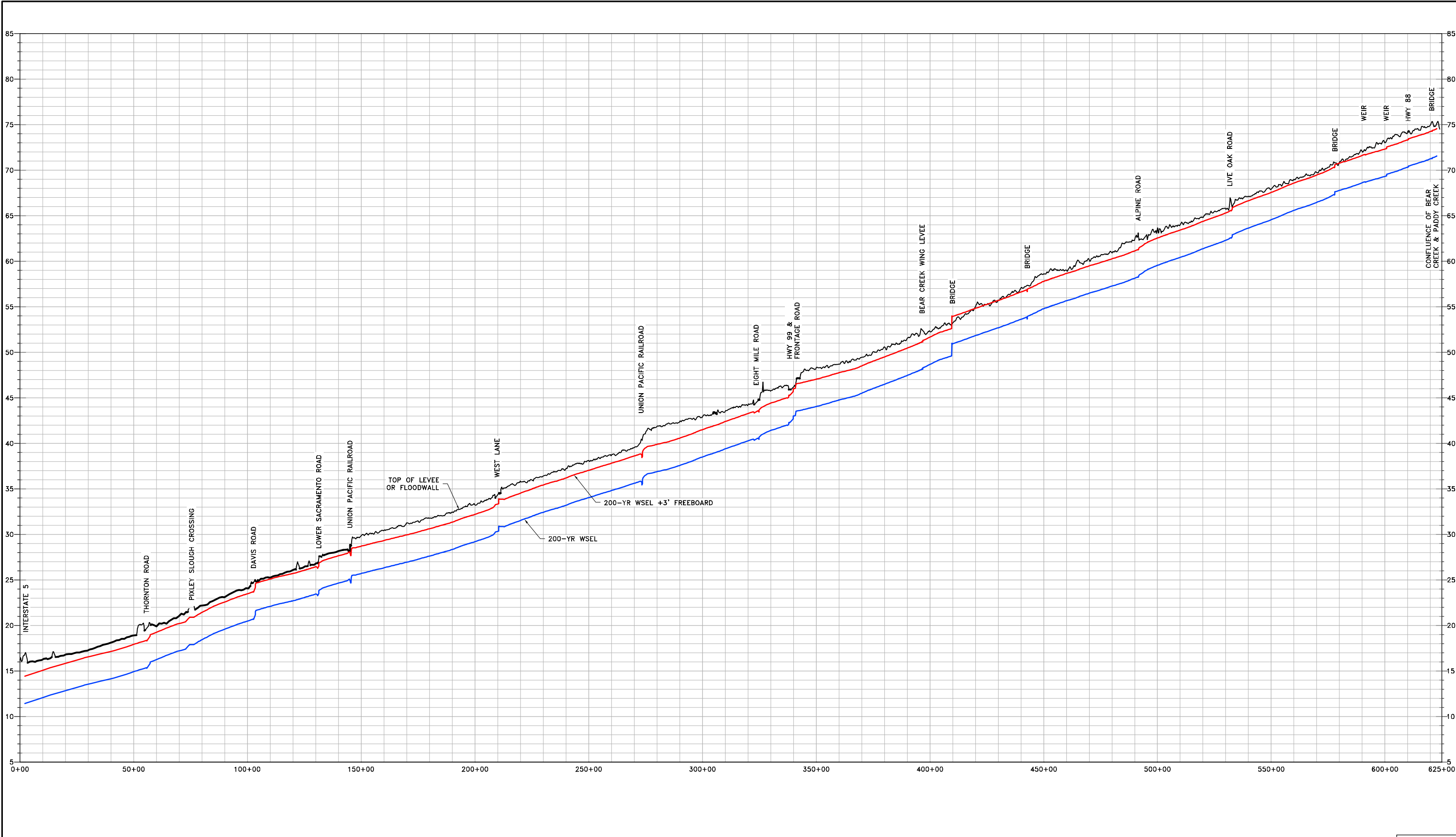
BEAR CREEK – NORTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale	Date
No.	Description	Date	By	Appr. By			

Design	
Drawn	JRT
Check	CHN

Scale	HOR: 1"=2,000'	Date	OCTOBER 2014
	VERT: 1"=5'	Sheet Number	1 Of 1
Original Drawing Scale	0 1/2" 1"	Project File No.	2091-0140

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-Cala\veras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:19pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND
— EXISTING GROUND
— TOP OF FLOODWALL
— 100-YR WATER SURFACE ELEVATION
— 100-YR FREEBOARD (FB)

KSN
INC.
Civil Engineers
and Land Surveyors
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BEAR CREEK
LEVEE ACCREDITATION SURVEYS

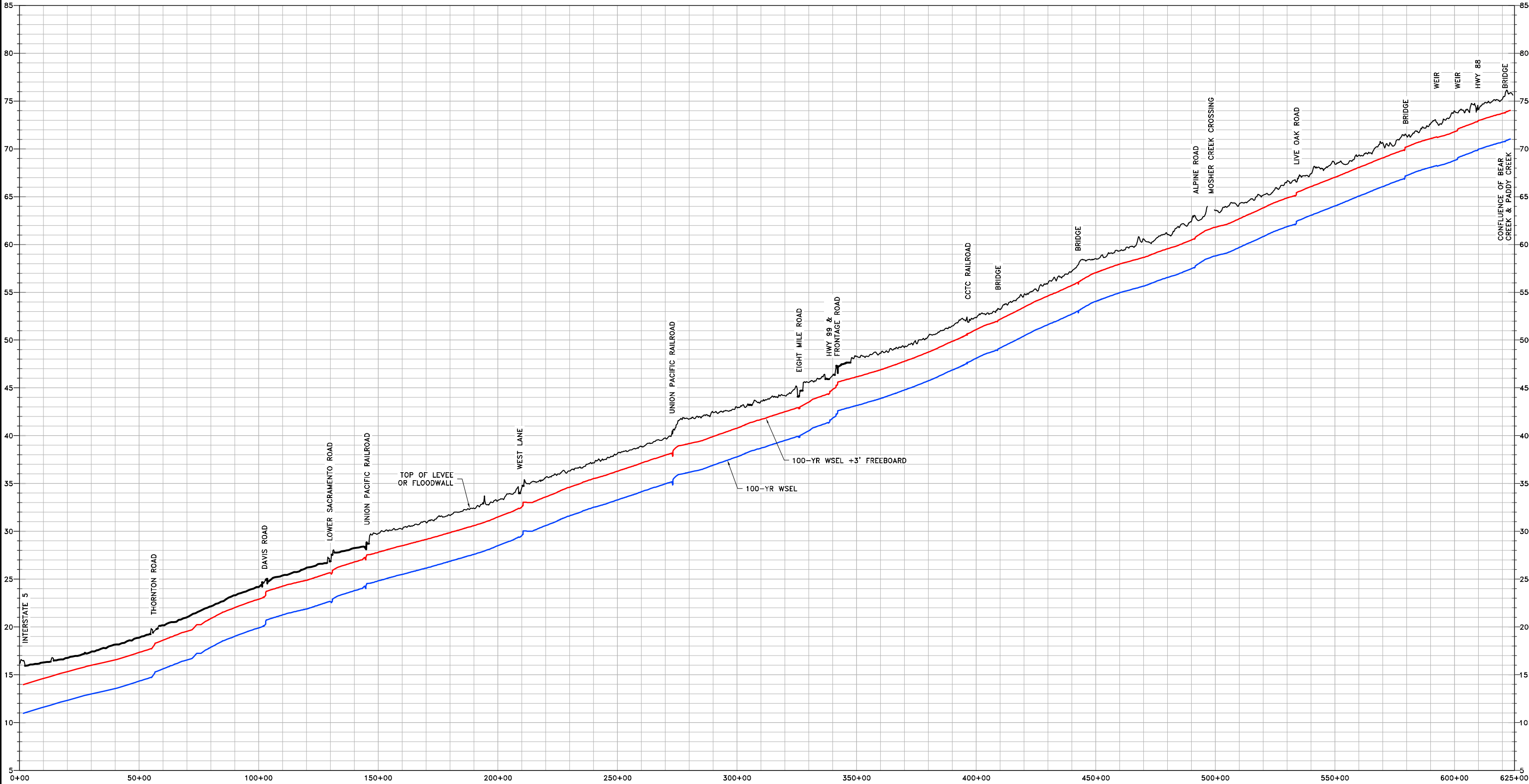
BEAR CREEK – NORTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=2,000'
VERT: 1"=5'
Original Drawing Scale
0 1/2" 1"
[Scale Bar]

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJAFACA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:20pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

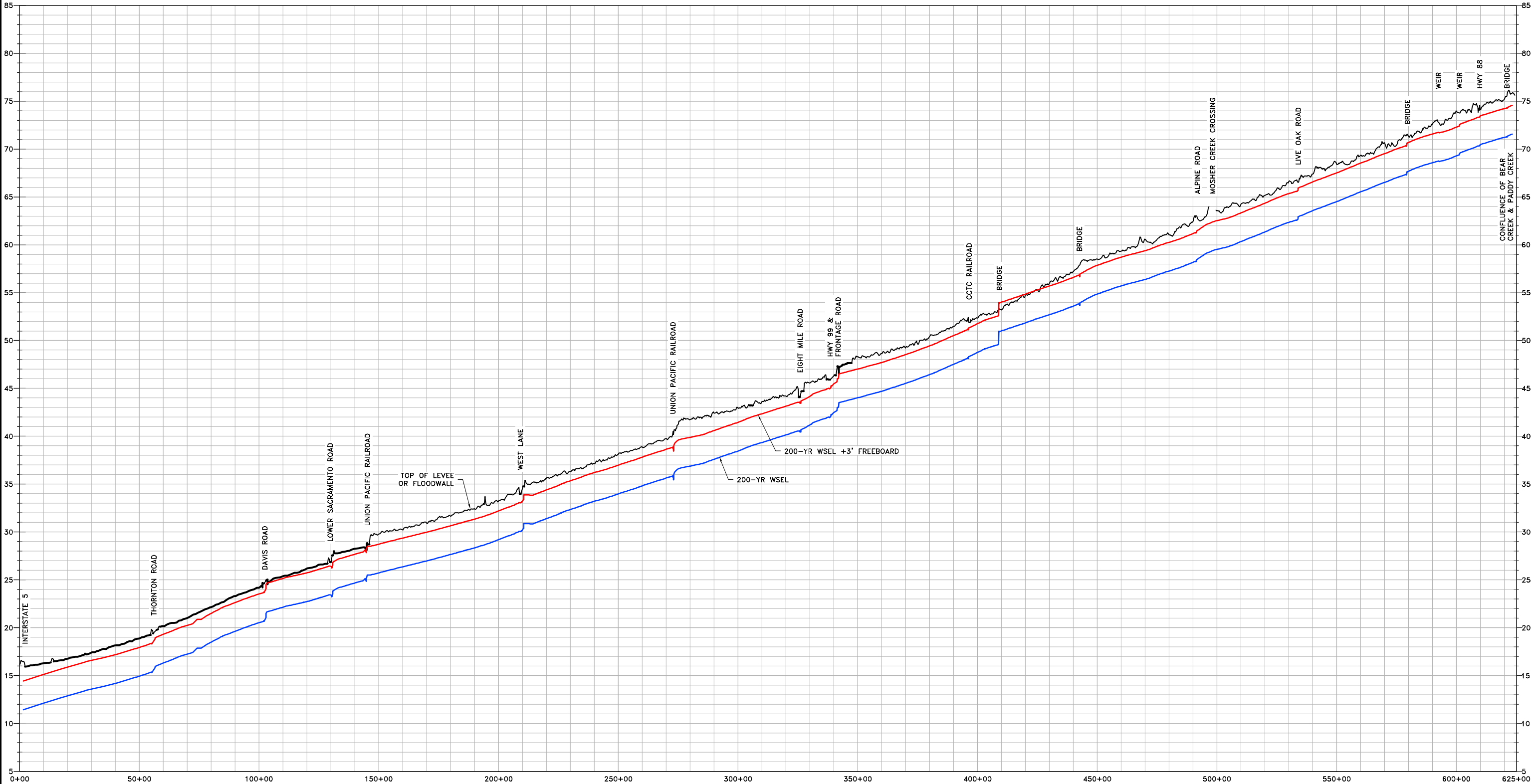
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BEAR CREEK
LEVEE ACCREDITATION SURVEYS

BEAR CREEK – SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale HOR: 1"=2,000' VERT: 1"=5' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014
No.	Description	Date	By	Appr. By			
					Drawn JRT		Sheet Number 1 Of 1
					Check CHN		Project File No. 2091-0140

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:21pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

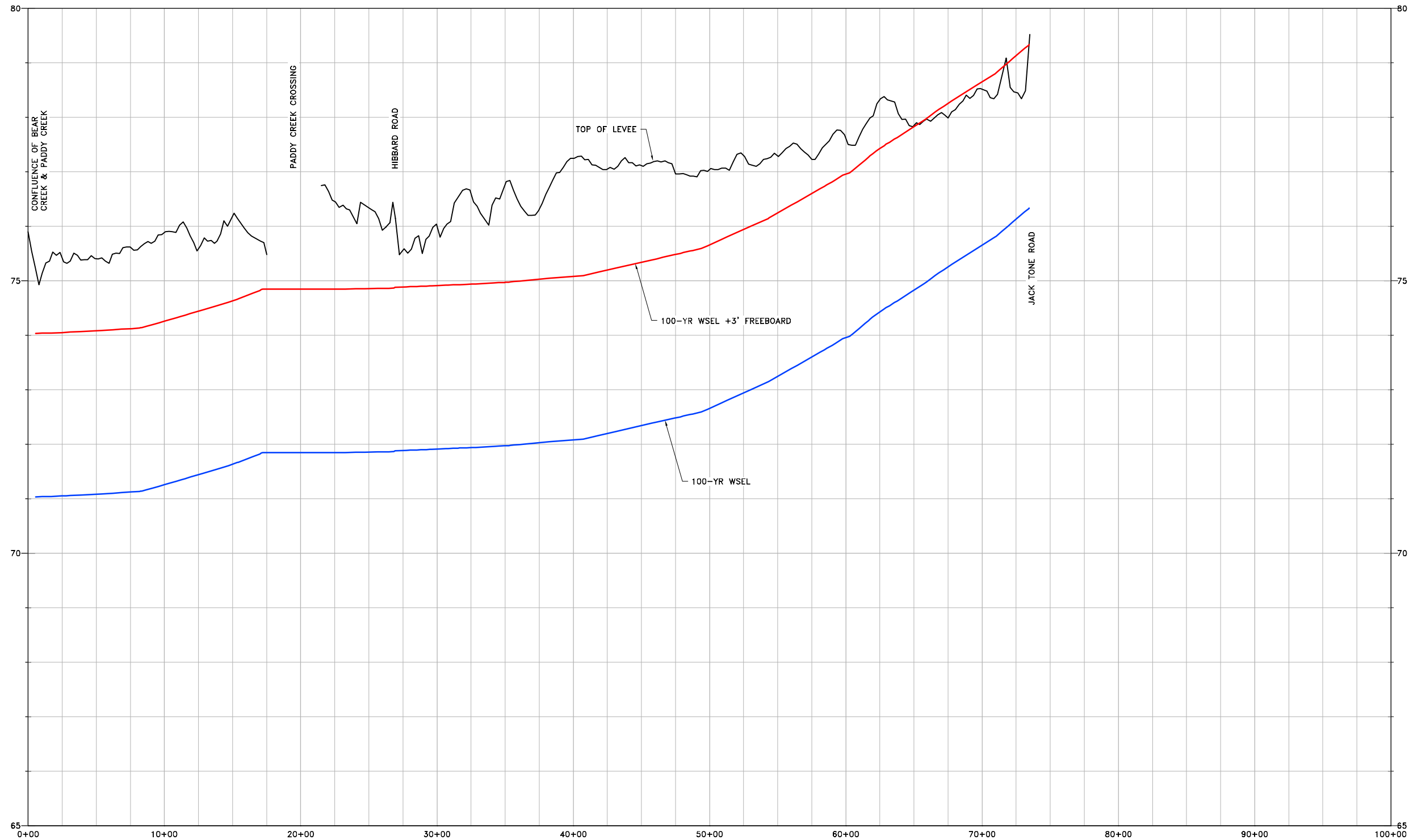
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BEAR CREEK
LEVEE ACCREDITATION SURVEYS

BEAR CREEK – SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale HOR: 1"=2,000' VERT: 1"=5' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014 Sheet Number 1 Of 1 Project File No. 2091-0140
No.	Description	Date	By	Appr. By			
					Drawn JRT		
					Check CHN		

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Paddy_Mosher\BMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:22pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

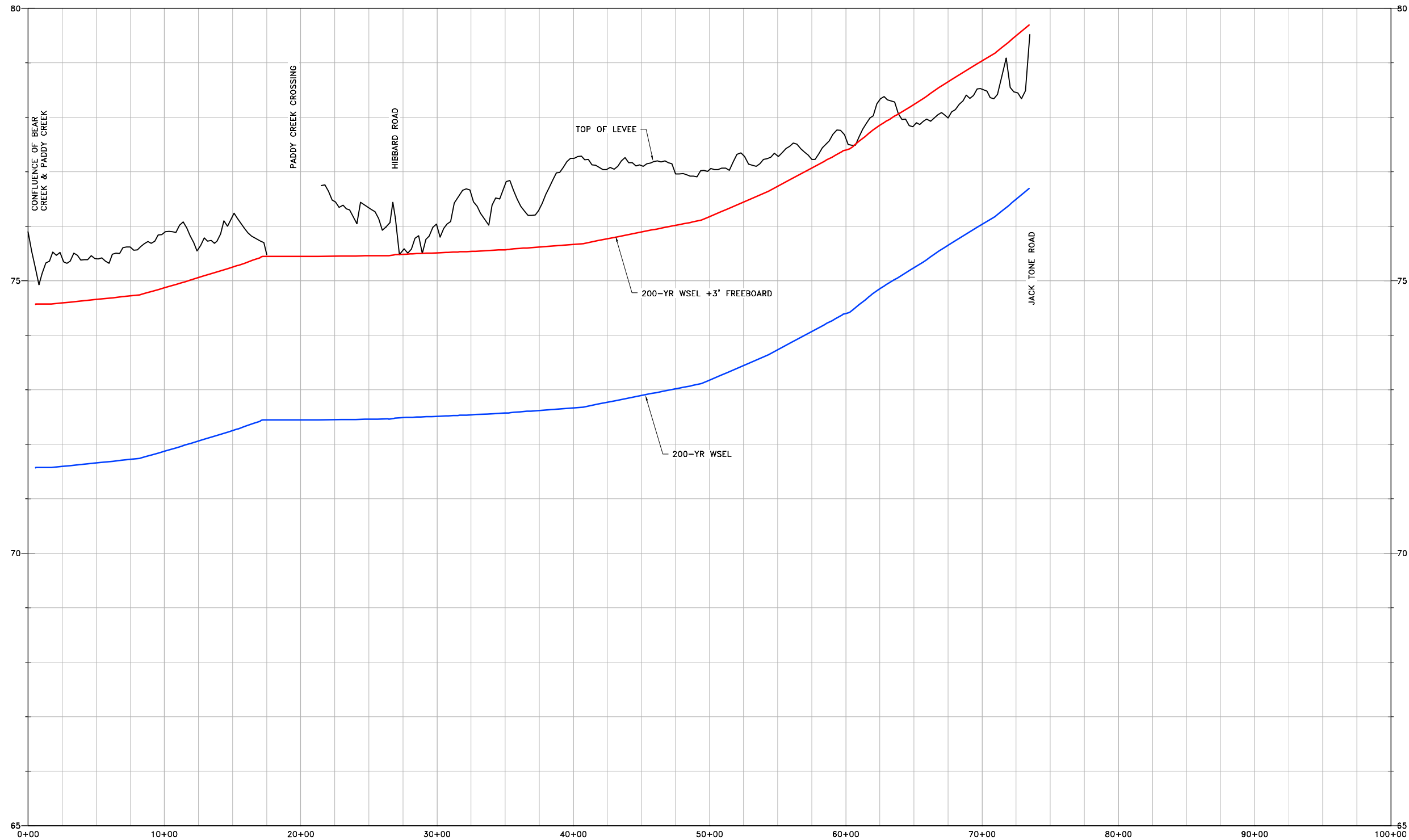
**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

Revisions					Design	Scale HOR: 1"=400' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014 Sheet Number 1 Of 1 Project File No. 2091-0140
No.	Description	Date	By	Appr. By			
					Drawn JRT		
					Check CHN		

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Paddy_Mosher\Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:23pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

**SAN JOAQUIN AREA FLOOD CONTROL AGENCY
SOUTH PADDY CREEK
LEVEE ACCREDITATION SURVEYS**

**SOUTH PADDY CREEK – NORTH BANK
200-YEAR WATER SURFACE ELEVATION**

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=400'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

Sheet Number
1 Of 1

Project File No.
2091-0140

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-Cala\veras_Accreditation\04_Survey\CADD\SH\T\Bear_Pixley_Paddy_Mosher\RFMP_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:24pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
SOUTH PADDY CREEK
LEVEE ACCREDITATION SURVEYS

SOUTH PADDY CREEK – SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=400'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

Sheet Number
1 Of 1

Project File No.
2091-0140

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Cala\Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:26pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

**SAN JOAQUIN AREA FLOOD CONTROL AGENCY
SOUTH PADDY CREEK
LEVEE ACCREDITATION SURVEYS**

**SOUTH PADDY CREEK – SOUTH BANK
200-YEAR WATER SURFACE ELEVATION**

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=400'
VERT: 1"=1'

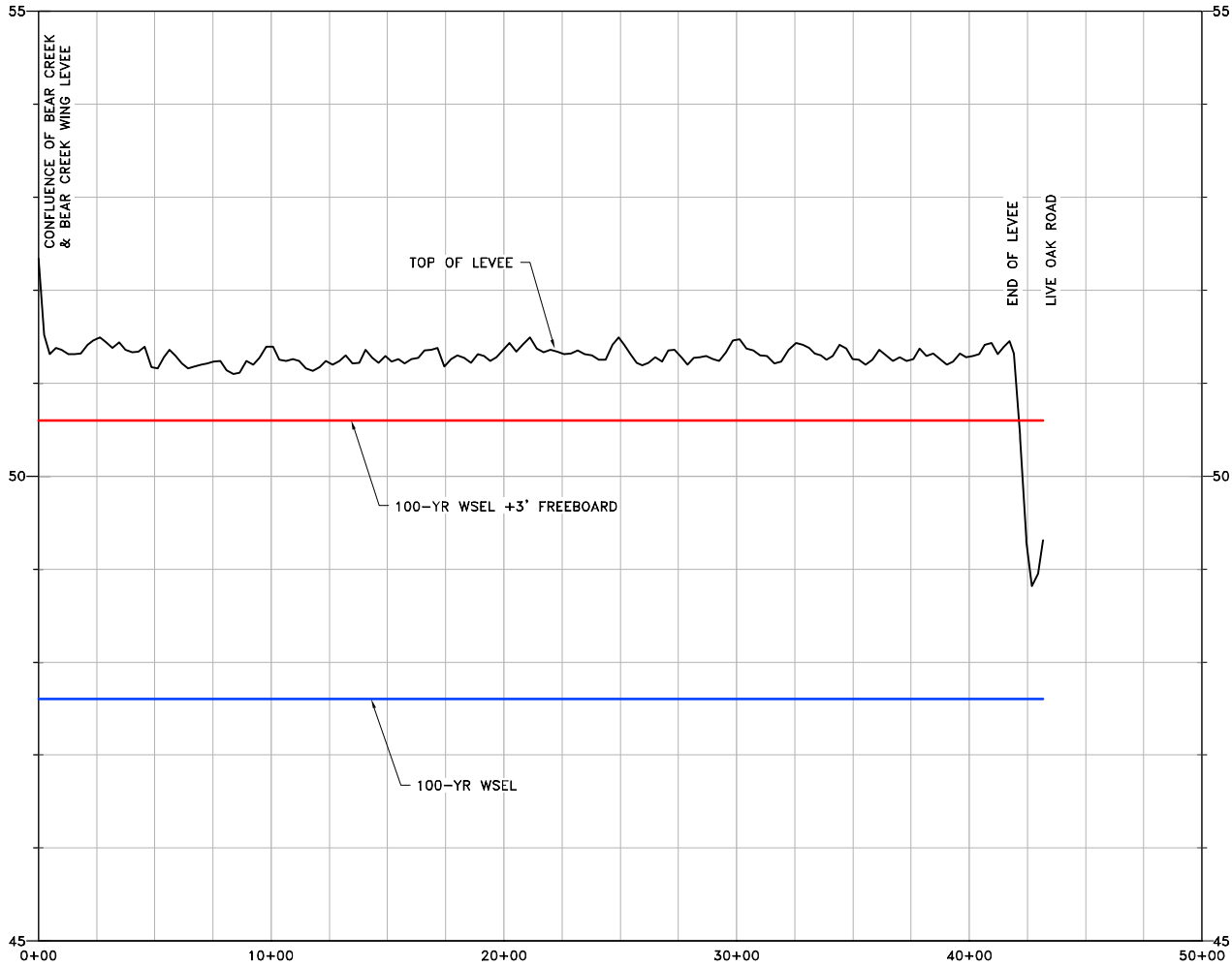
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

Sheet Number
1 Of 1

Project File No.
2091-0140

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Cala\veras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Pixley_Paddy_Mosher\BMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:27pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

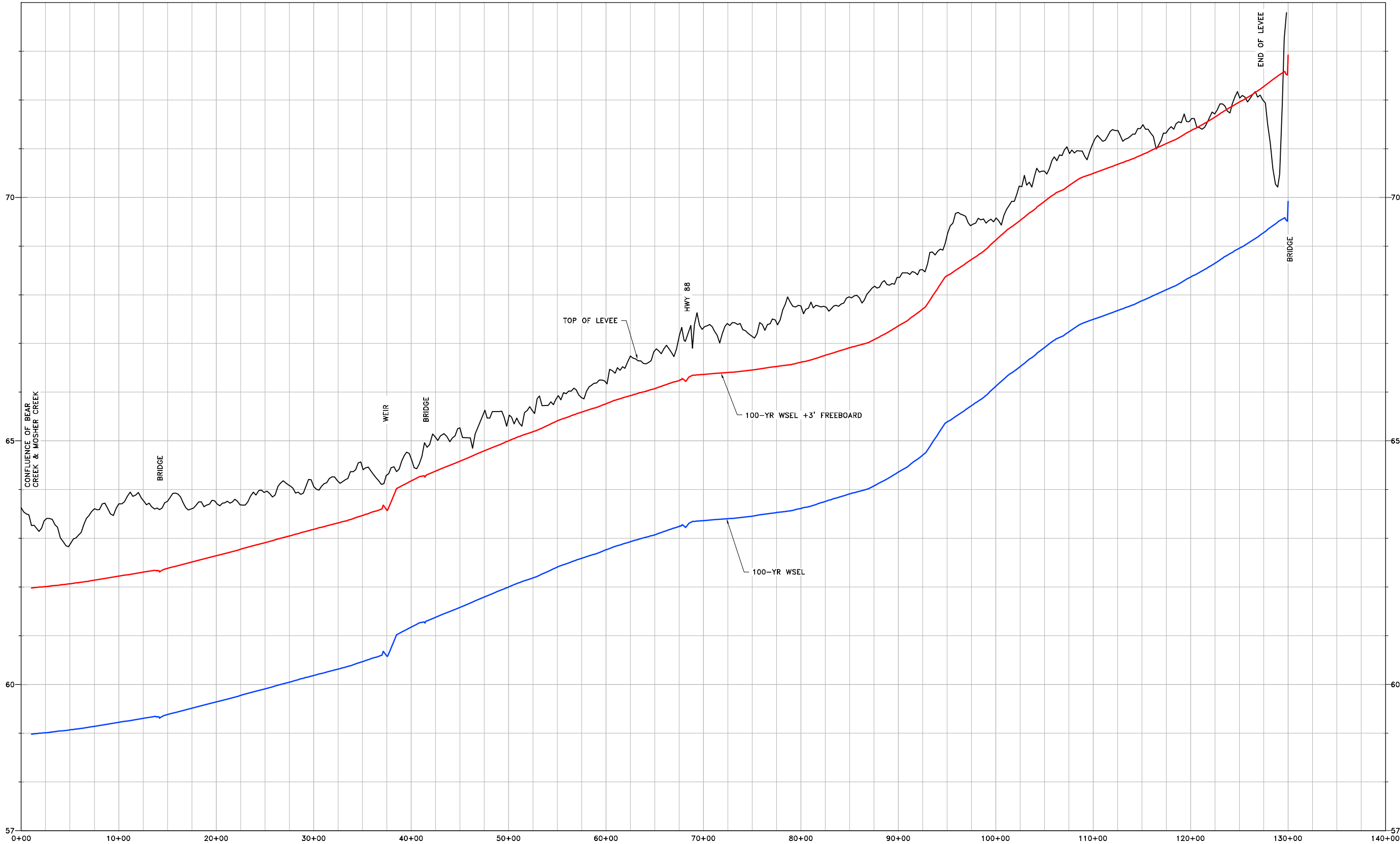
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BEAR CREEK WING LEVEE
LEVEE ACCREDITATION SURVEYS

BEAR CREEK WING LEVEE
100-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale HOR: 1"=400' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014
No.	Description	Date	By	Appr. By			
					Drawn JRT		Sheet Number 1 Of 1
					Check CHN		Project File No. 2091-0140

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Cala\varas_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:28pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

**SAN JOAQUIN AREA FLOOD CONTROL AGENCY
MOSHER CREEK
LEVEE ACCREDITATION SURVEYS**

**MOSHER CREEK – NORTH BANK
100-YEAR WATER SURFACE ELEVATION**

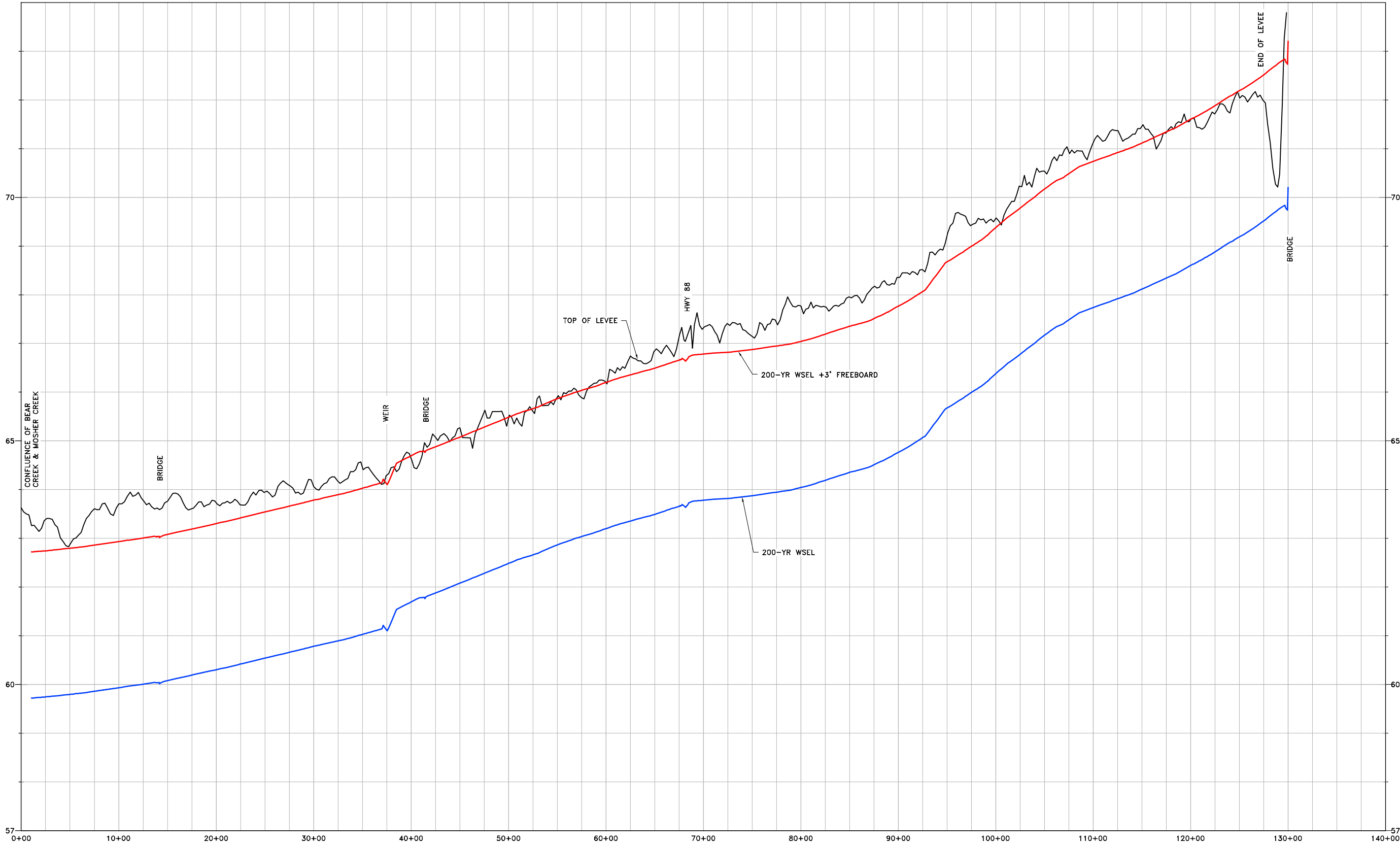
Revisions					Design
No.	Description	Date	By	Appr'd. By	

Design
JRT
Check
CHN

Scale
HOR: 1"=500'
VERT: 1"=1'
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJA\FCA_IDIQ\0140_Bear-CalaVeras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:29pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

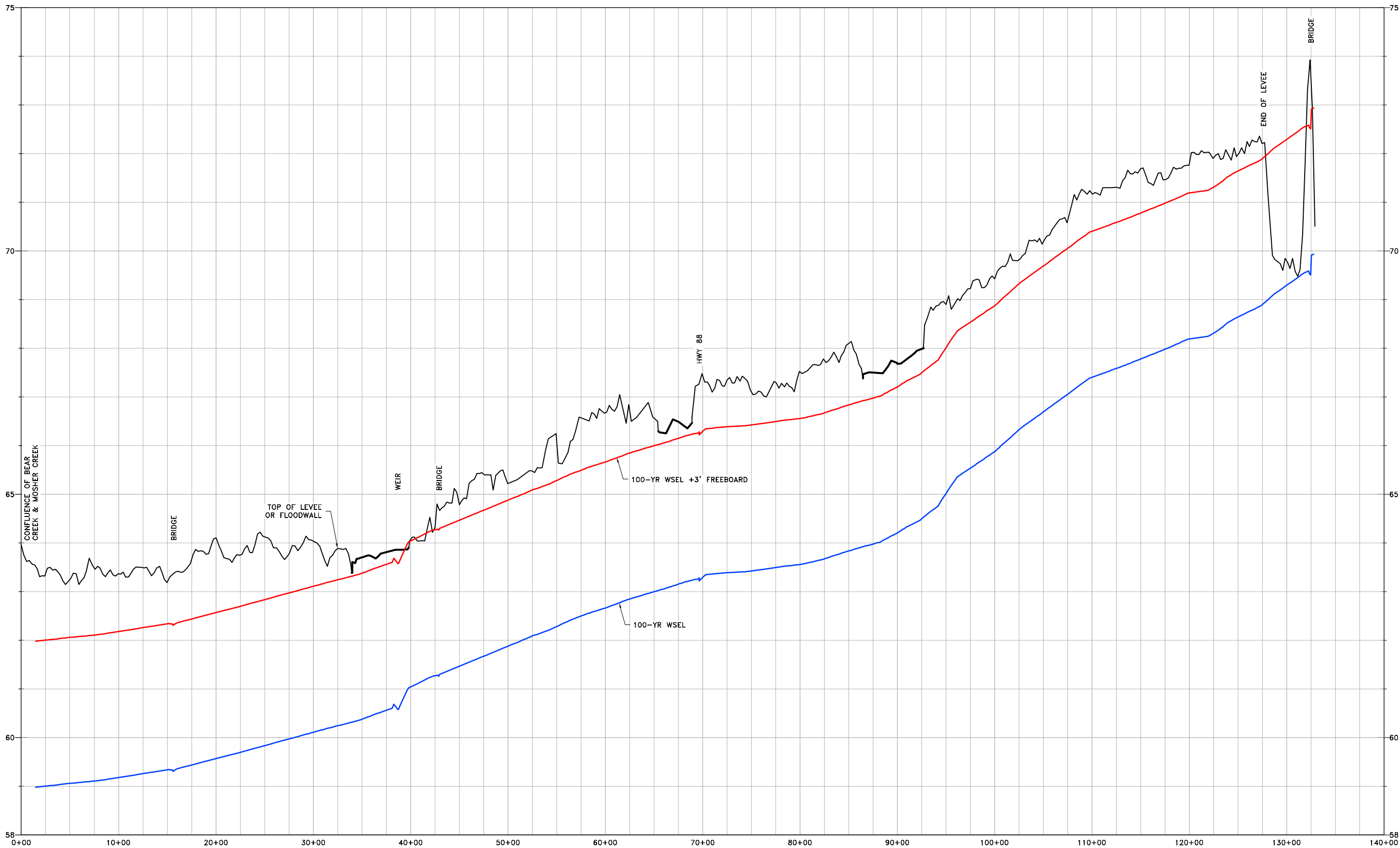
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
MOSHER CREEK
LEVEE ACCREDITATION SURVEYS

MOSHER CREEK – NORTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale	Date
No.	Description	Date	By	Appr. By			
					Drawn JRT	HOR: 1"=500' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	OCTOBER 2014 Sheet Number 1 Of 1 Project File No. 2091-0140
					Check CHN		

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:30pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

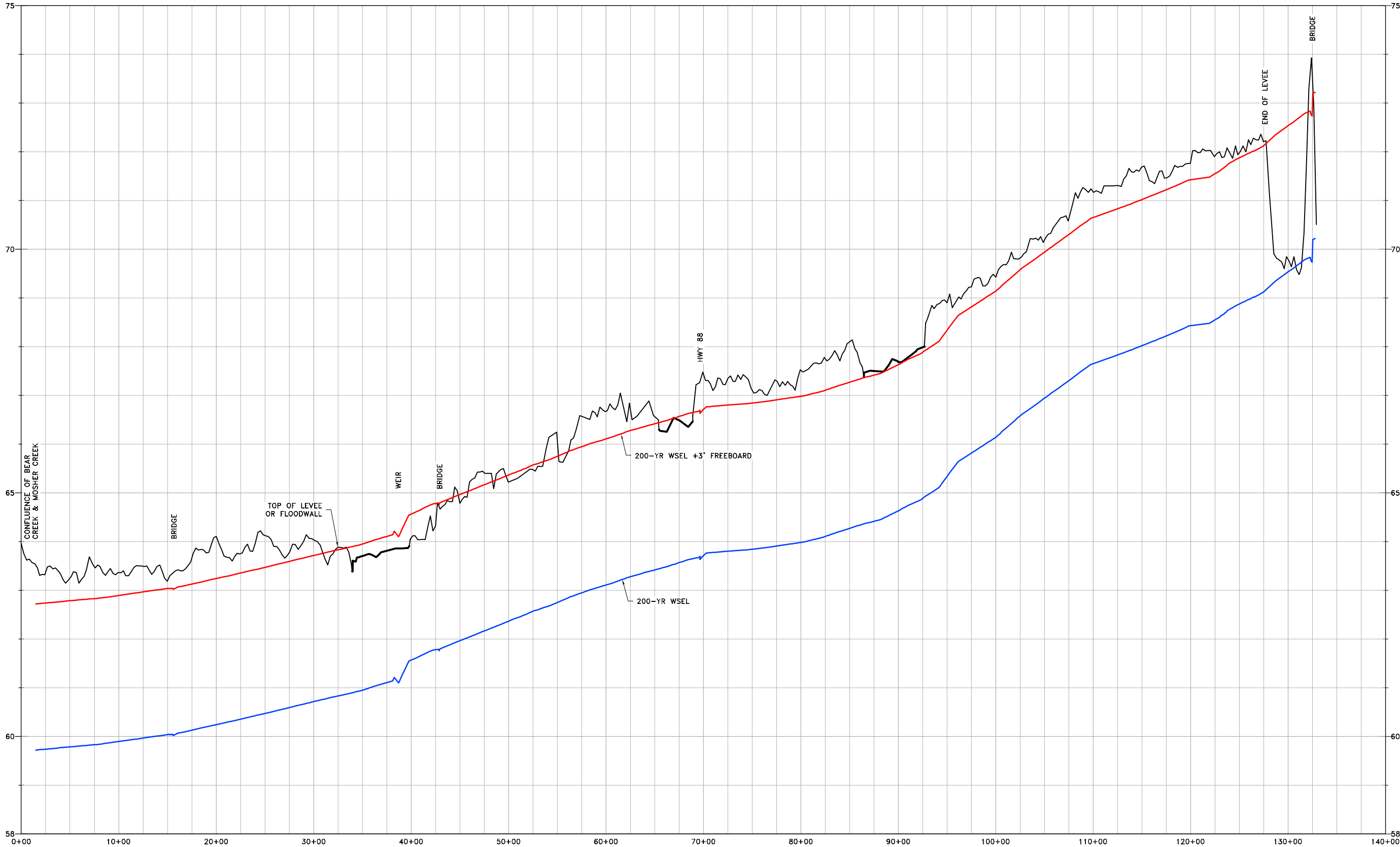
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
MOSHER CREEK
LEVEE ACCREDITATION SURVEYS

MOSHER CREEK – SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale	Date
No.	Description	Date	By	Appr. By			
					Drawn JRT	HOR: 1"=500' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	OCTOBER 2014 Sheet Number 1 Of 1 Project File No. 2091-0140
					Check CHN		

FILE SPEC: P:\2091_SJA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:31pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

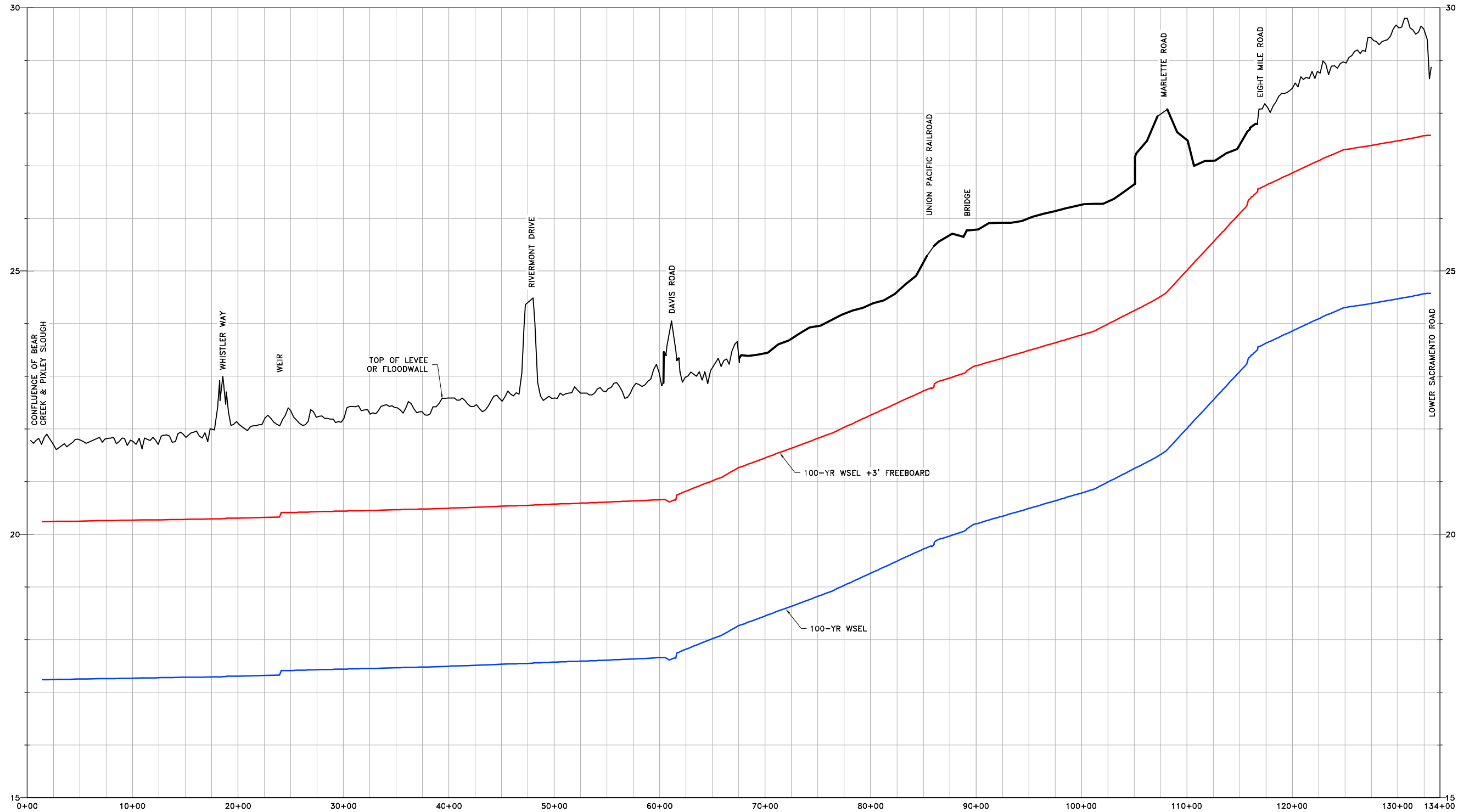
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
MOSHER CREEK
LEVEE ACCREDITATION SURVEYS

MOSHER CREEK – SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale HOR: 1"=500' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014
No.	Description	Date	By	Appr'd. By			
					Drawn JRT		Sheet Number 1 Of 1
					Check CHN		Project File No. 2091-0140

FILE SPEC: P:\2091_SJAFACA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Pixley_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:32pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

**SAN JOAQUIN AREA FLOOD CONTROL AGENCY
PIXLEY SLOUGH
LEVEE ACCREDITATION SURVEYS**

**PIXLEY SLOUGH – NORTH BANK
100-YEAR WATER SURFACE ELEVATION**

Revisions					Design		Scale HOR: 1"=500' VERT: 1"=1' Original Drawing Scale 0 1/2" 1" 	Date OCTOBER 2014 Sheet Number 1 Of 1 Project File No. 2091-0140
No.	Description	Date	By	Appr. By	Drawn	Check		
					JRT	CHN		

VERTICAL DATUM: NAVD 88

 EXISTING GROUND
 TOP OF FLOODWALL
 100-YR WATER SURFACE ELEVATION
 100-YR FREEBOARD (FB)

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

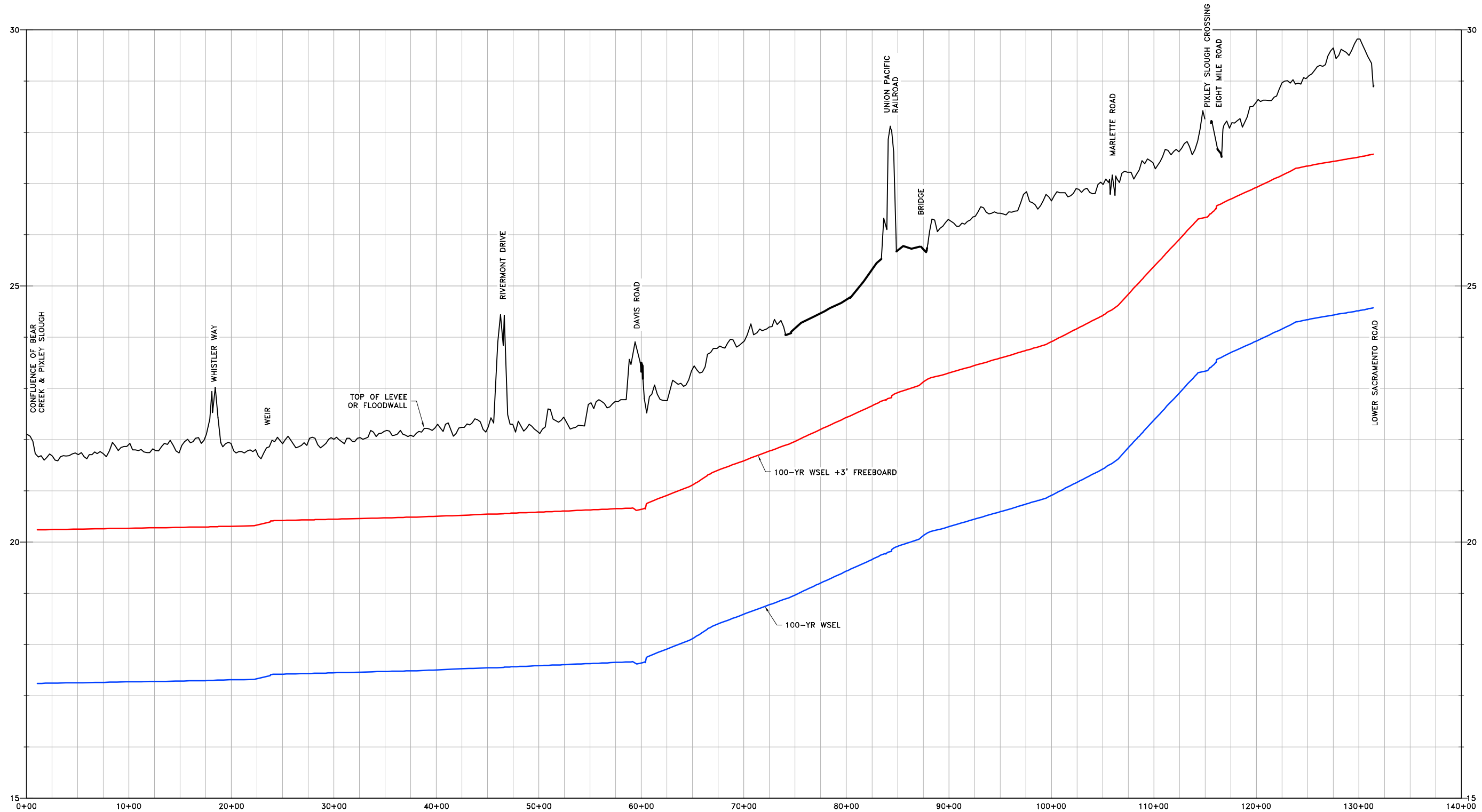
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900

www.ksninc.com

PIXLEY SLOUGH – NORTH BANK

Original Drawing Scale
0 1/2" 1"

FILE SPEC: P:\2091_SJAFACA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Pixley_Paddy_Mosher\BMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:34pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
PIXLEY SLOUGH
LEVEE ACCREDITATION SURVEYS

PIXLEY SLOUGH - SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

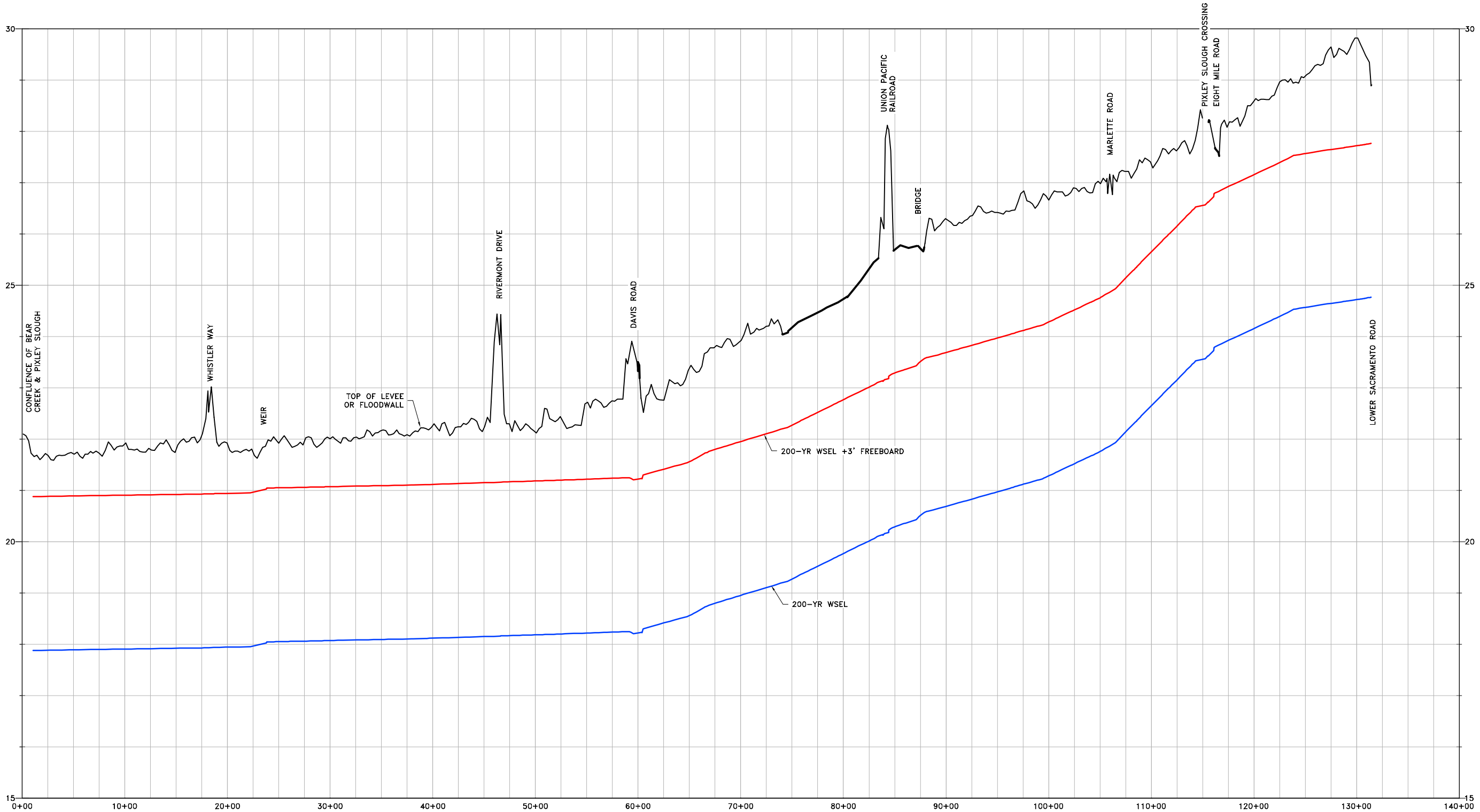
Revisions				
No.	Description	Date	By	Appd. By

Design
Drawn
JRT
Check
CHN

Scale
HOR: 1"=500'
VERT: 1"=1'
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJAFAID\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SHT\Bear_Pixley_Paddy_Mosher\RFMP_Exhibit\Bear_Creek.dwg
PLOT DATE: Oct 16, 2014 - 2:35pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
PIXLEY SLOUGH
LEVEE ACCREDITATION SURVEYS

PIXLEY SLOUGH - SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=500'
VERT: 1"=1'
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

--Page initially blank--

4. Lower Calaveras System

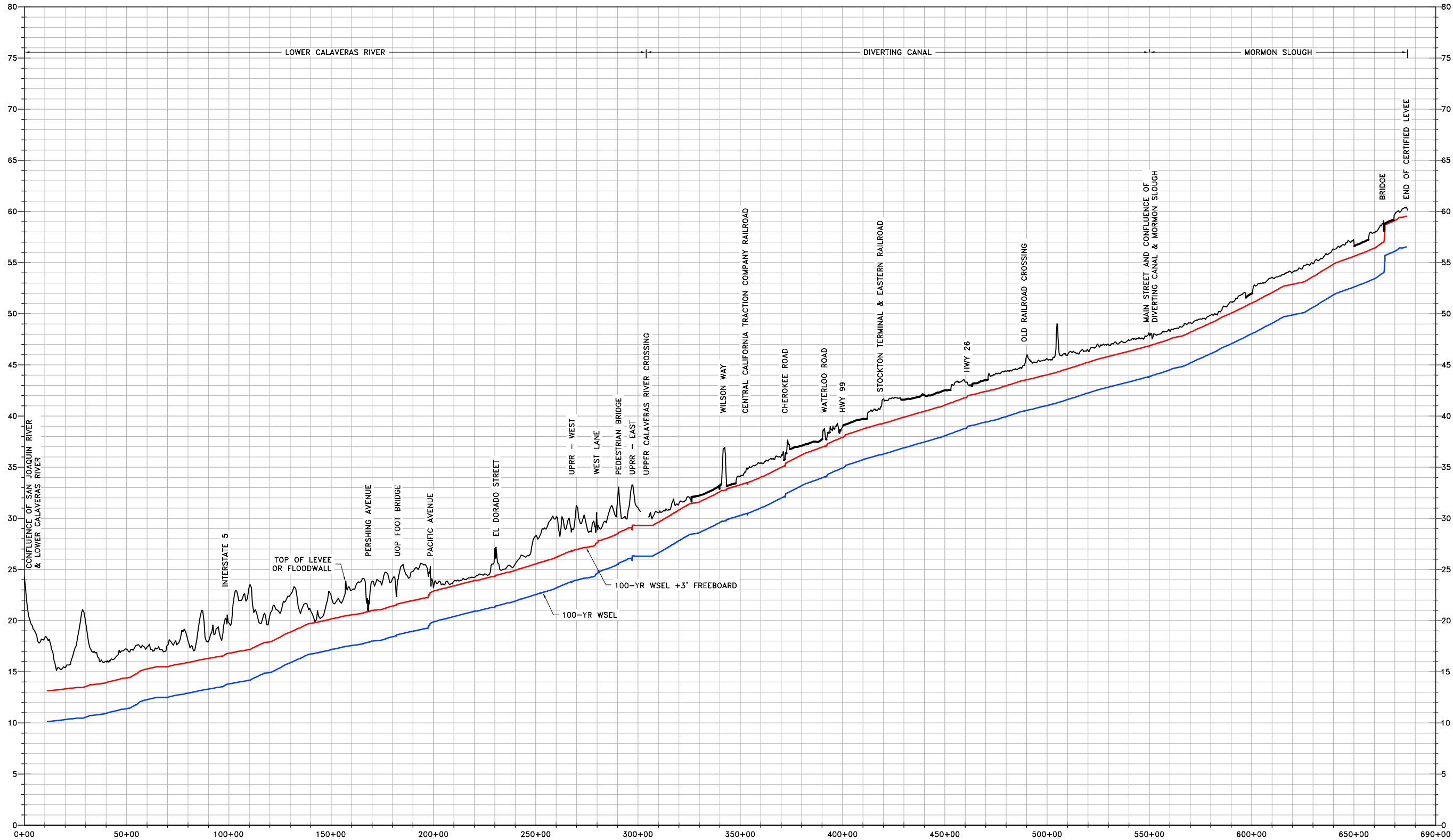
The 100-year and 200-year profiles are based on levee accreditation surveys by KSN, Inc. for Lower Calaveras River, Stockton Diverting Canal, Mormon Slough & Potter Creek, dated October 2014.

The following Vicinity Maps show the project area for the levee accreditation surveys. The profiles are shown on the following pages.





FILE SPEC: P:\2091_SIAFCA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Diverting_Mormon_Polter\RMF_Exhibits\LowerCal_Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:33pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND
— EXISTING GROUND
— TOP OF FLOODWALL
— 100-YR WATER SURFACE ELEVATION
— 100-YR FREEBOARD (FB)

K S N
KJELDSSEN SINNOCK NEUDECK
INC.
Civil Engineers and Land Surveyors
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

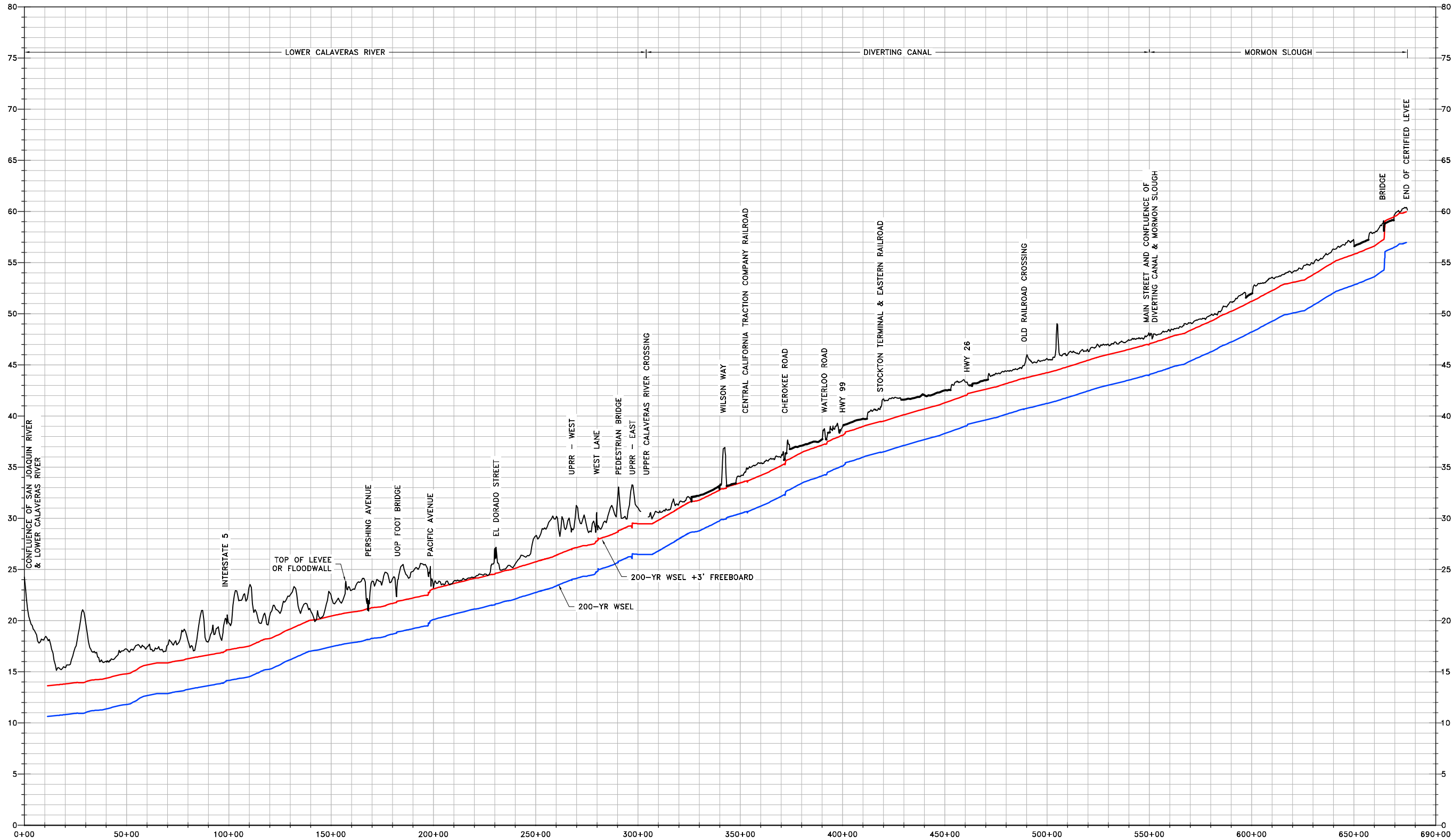
SAN JOAQUIN AREA FLOOD CONTROL AGENCY
LOWER CAL, DIVERTING CANAL, MORMON SLOUGH
LEVEE ACCREDITATION SURVEYS
LOWER CALAVERAS, DIVERTING CANAL,
& MORMON SLOUGH – NORTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=2500'
VERT: 1"=5'
Original Drawing Scale
0 1/4" 1"
[Scale Bar]

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SIAFCA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Diverting_Mormon_Polter\RMP_Exhibits\LowerCal_Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:34pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND
— EXISTING GROUND
— TOP OF FLOODWALL
— 100-YR WATER SURFACE ELEVATION
— 100-YR FREEBOARD (FB)

KSN
INC.
KJELDSSEN
SINNOCK
NEUDECK
Civil Engineers
and Land Surveyors
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

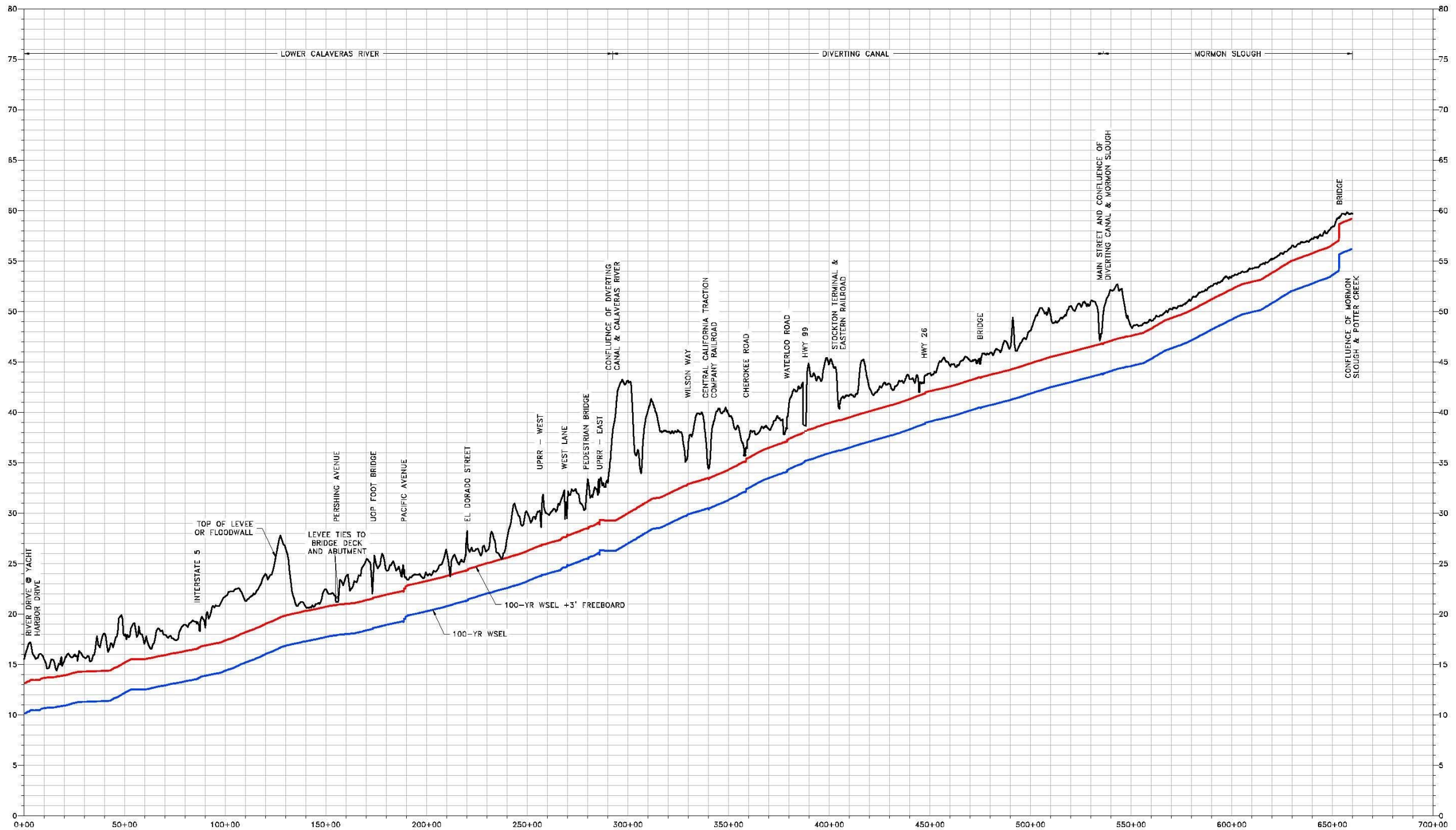
SAN JOAQUIN AREA FLOOD CONTROL AGENCY
LOWER CAL, DIVERTING CANAL, MORMON SLOUGH
LEVEE ACCREDITATION SURVEYS
LOWER CALAVERAS, DIVERTING CANAL,
& MORMON SLOUGH – NORTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=2500'
VERT: 1"=5'
Original Drawing Scale
0 1/4" 1"
[Scale Bar]

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJA\FCA_IDIQ\0140_Beor-Calaveras_Accreditation\04_Survey\CADD\SH1\Diverting_Mormon_Potter\RFMP_Exhibits\LowerCal_Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:35pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CYFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND
— EXISTING GROUND
— TOP OF FLOODWALL
— 100-YR WATER SURFACE ELEVATION
— 100-YR FREEBOARD (FB)

K S N
KJELDSSEN SINNOCK NEUDECK INC.
Civil Engineers and Land Surveyors
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

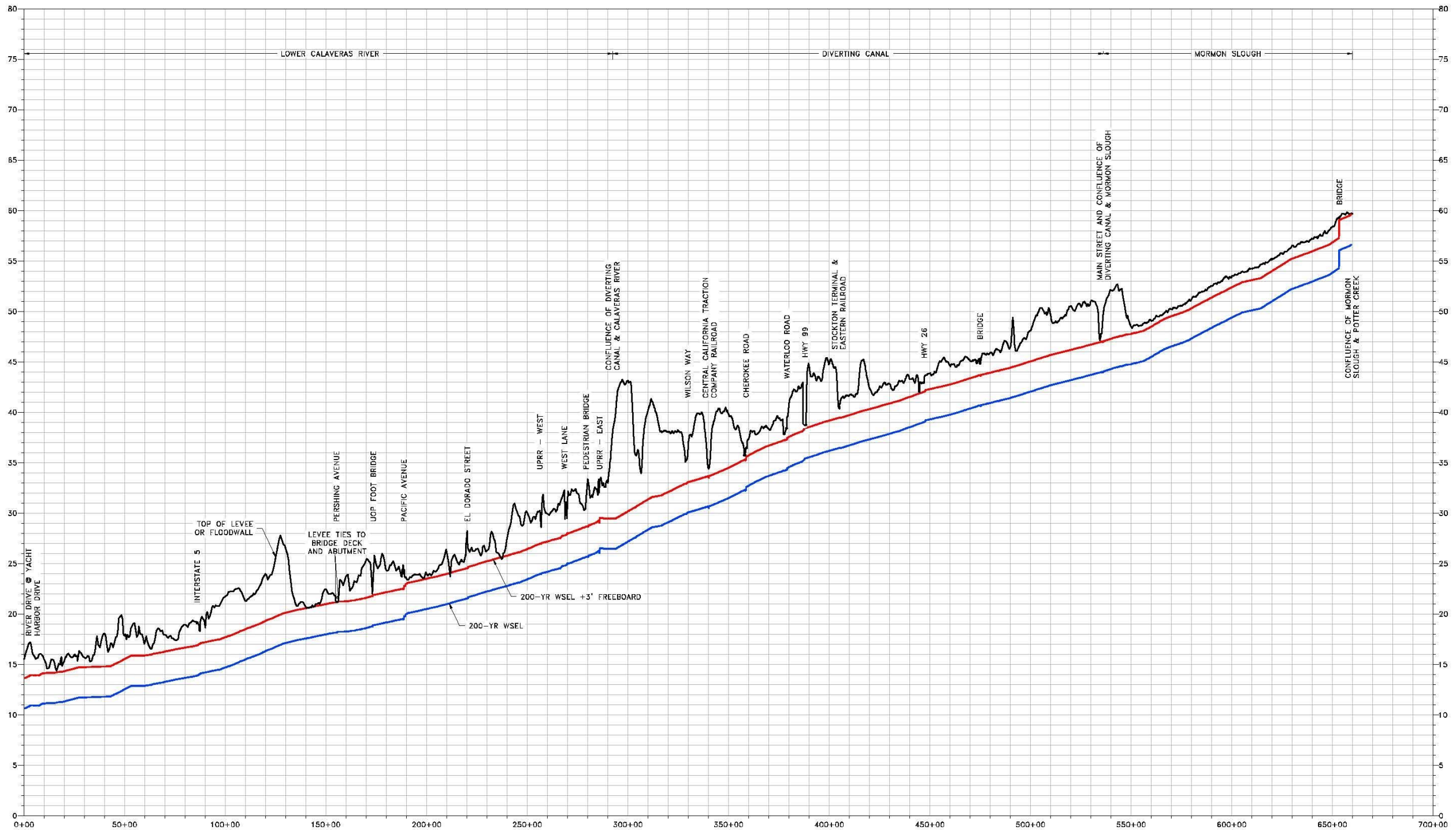
SAN JOAQUIN AREA FLOOD CONTROL AGENCY
LOWER CAL, DIVERTING CANAL, MORMON SLOUGH
LEVEE ACCREDITATION SURVEYS
LOWER CALAVERAS, DIVERTING CANAL, & MORMON SLOUGH - SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions				
No.	Description	Date	By	Appr. By

Design
Drawn JRT
Check CHN
Scale
HOR: 1"=2500'
VERT: 1"=5'
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJA\FCA_IDIQ\0140_Beor-CalaVeras_Accreditation\04_Survey\CADD\SH1\Diverting_Mormon_Potter\RFMP_Exhibits\LowerCal_Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:35pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CYFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND
— EXISTING GROUND
— TOP OF FLOODWALL
— 100-YR WATER SURFACE ELEVATION
— 100-YR FREEBOARD (FB)

K S N
KJELDSSEN SINNOCK NEUDECK INC.
Civil Engineers and Land Surveyors
711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

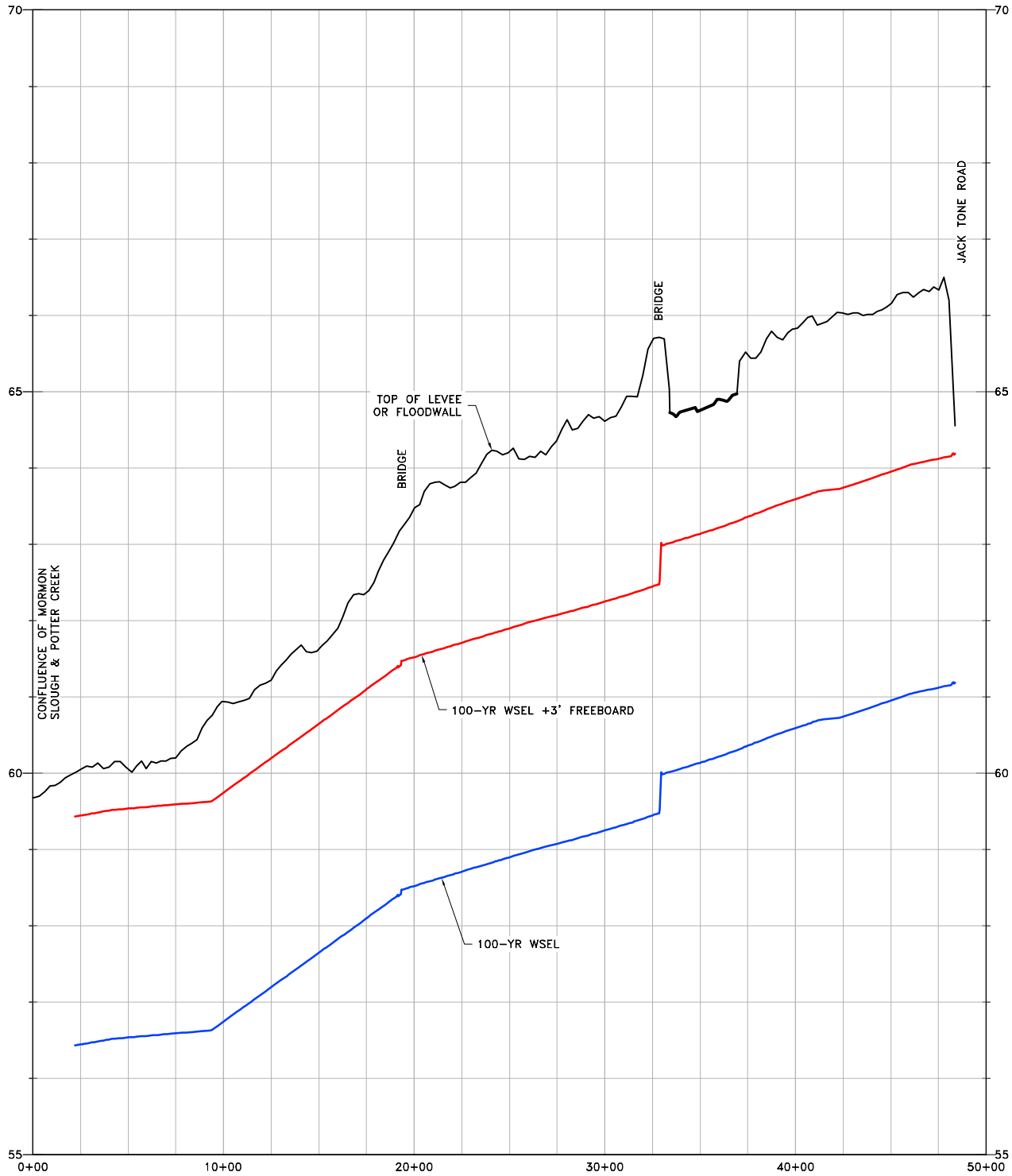
SAN JOAQUIN AREA FLOOD CONTROL AGENCY
LOWER CAL, DIVERTING CANAL, MORMON SLOUGH
LEVEE ACCREDITATION SURVEYS
LOWER CALAVERAS, DIVERTING CANAL, & MORMON SLOUGH - SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions				
No.	Description	Date	By	Appr. By

Design
Drawn JRT
Check CHN
Scale
HOR: 1"=2500'
VERT: 1"=5'
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014
Sheet Number
1 Of 1
Project File No.
2091-0140

FILE SPEC: P:\2091_SJAFCA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Diverting_Mormon_Potter\RFMP_Exhibits\LowerCol_Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:36pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
POTTER CREEK
LEVEE ACCREDITATION SURVEYS

POTTER CREEK – SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=400'
VERT: 1"=1'

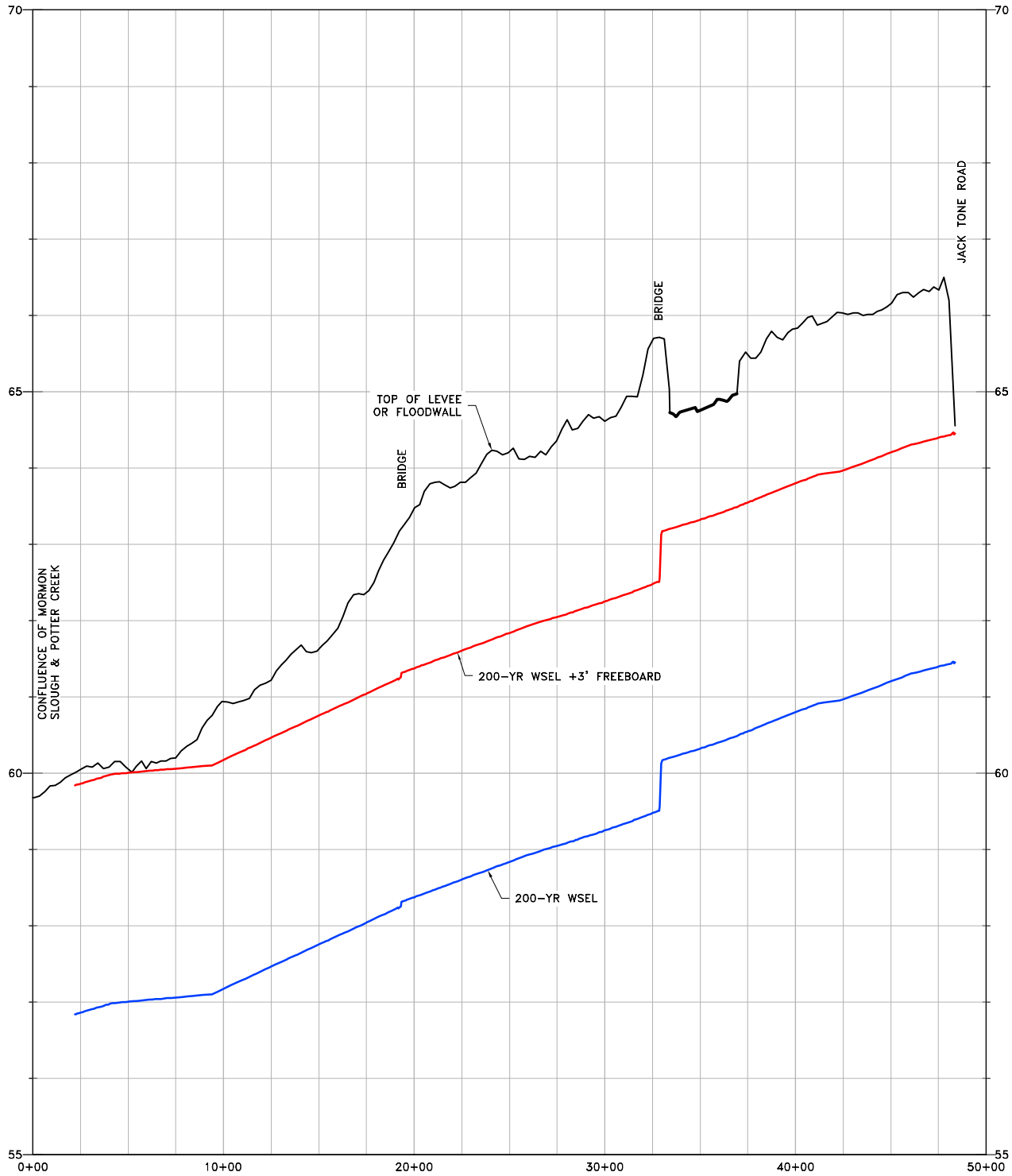
Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

Sheet Number
1 Of 1

Project File No.
2091-0140

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Diverting_Mormon_Potter\RMF_Potter\RMF_Potter\Diverting_Mormon.dwg
PLOT DATE: Oct 16, 2014 - 1:37pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFED LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
POTTER CREEK
LEVEE ACCREDITATION SURVEYS

POTTER CREEK – SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=400'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

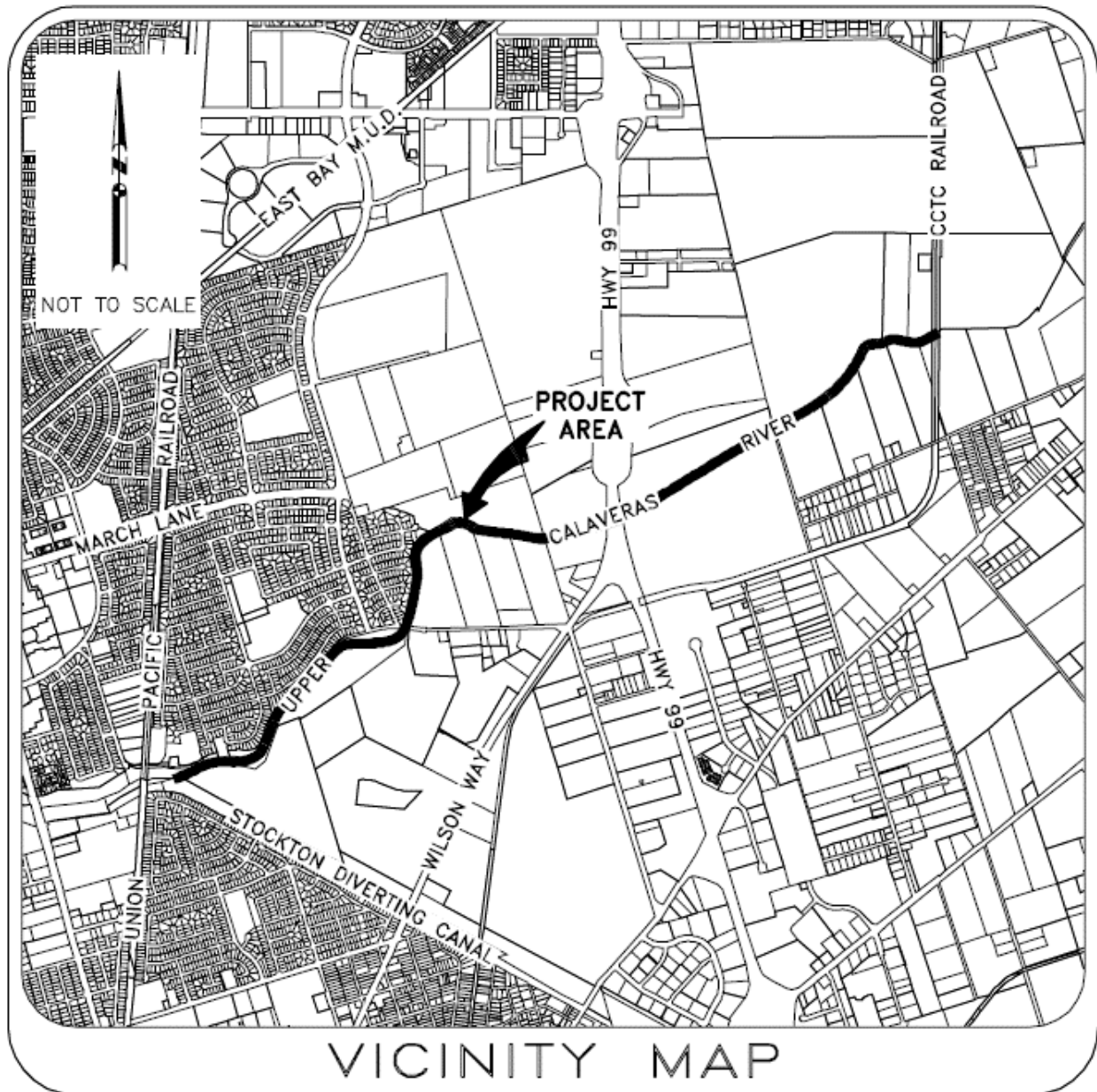
Sheet Number
1 Of 1

Project File No.
2091-0140

5. Upper Calaveras System

The 100-year and 200-year profiles are based on levee accreditation surveys by KSN, Inc. for Upper Calaveras River, dated October 2014.

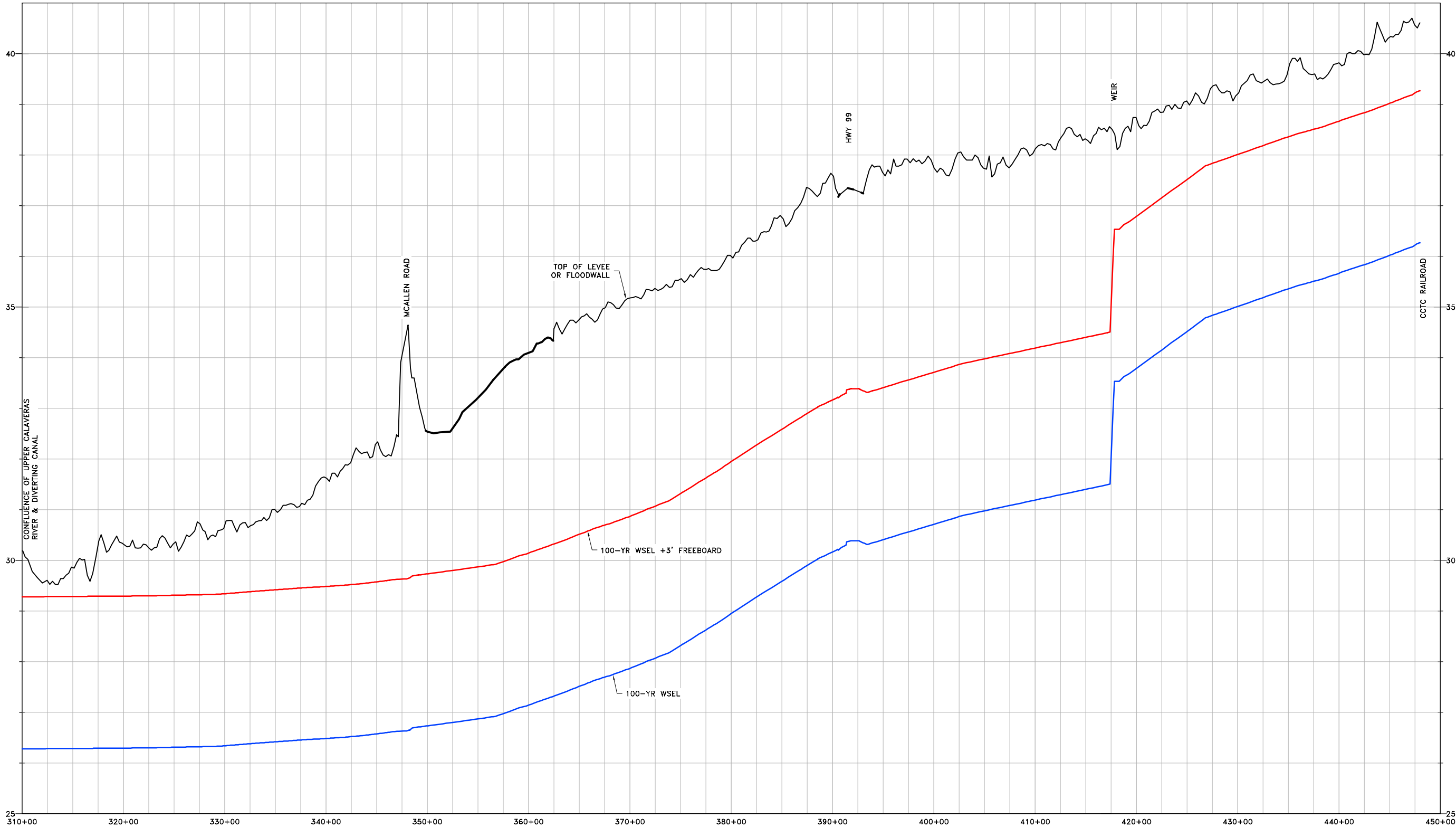
The follow Vicinity Map shows the project area for the levee accreditation surveys. The profiles are shown on the following pages.



Appendix B

--Page initially blank--

FILE SPEC: P:\2091_SJAFACA_IDIQ\0140_Bear-Calaveras_Accreditation\04_Survey\CADD\SH\Upper_Calaveras\RFMP_Exhibits\Upper_Calaveras.dwg
PLOT DATE: Oct 15, 2014 - 2:56pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
UPPER CALAVERAS RIVER
LEVEE ACCREDITATION SURVEYS

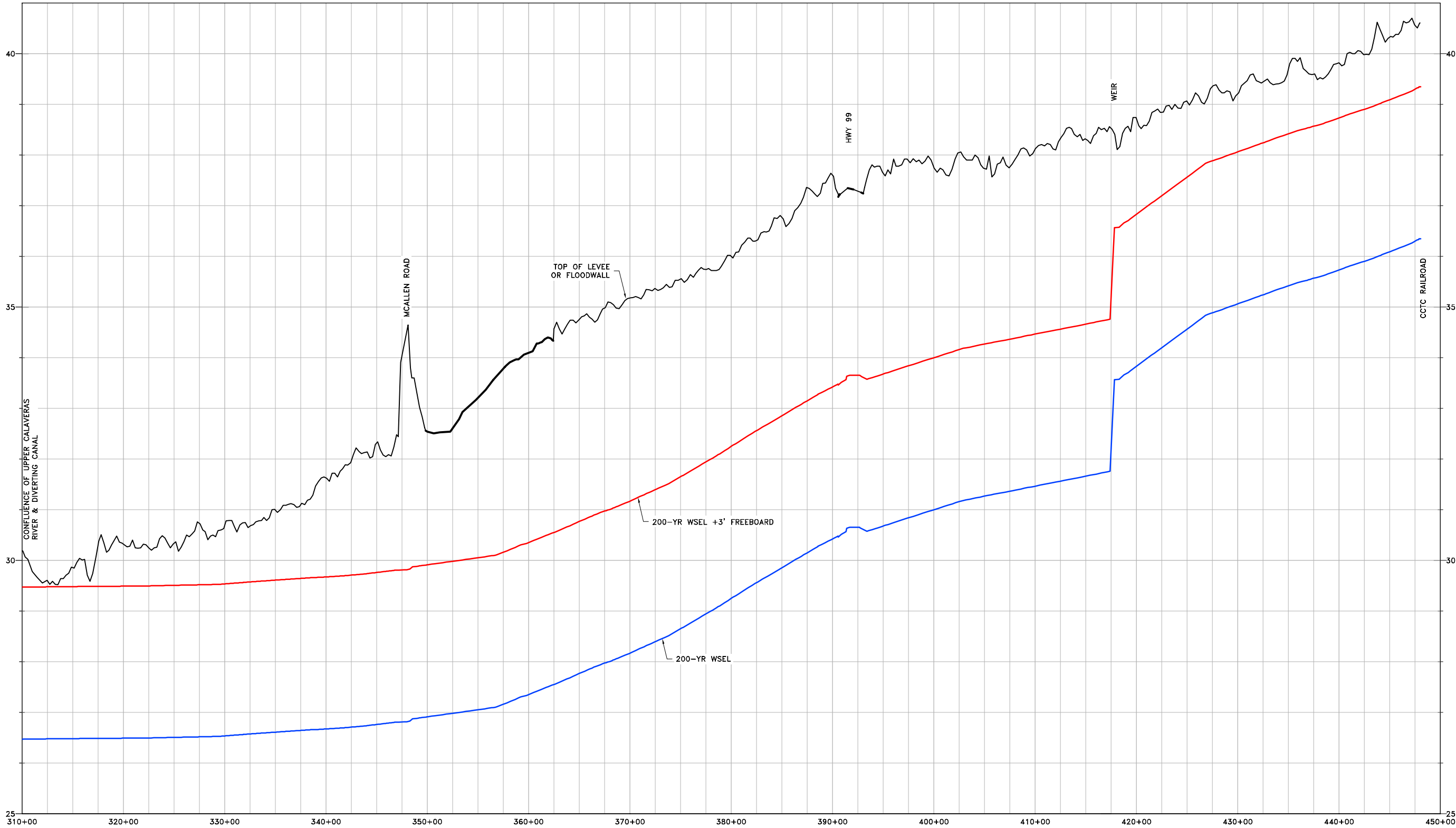
UPPER CALAVERAS RIVER – NORTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr'd. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=500'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

FILE SPEC: P:\2091_SJAFA\CA_IDIQ\0140_Bear-CalaVeras_Accreditation\04_Survey\CADD\SH\Upper_Calaveras\RFMP_Exhibits\Upper_Calaveras.dwg
PLOT DATE: Oct 15, 2014 - 2:57pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDTSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
UPPER CALAVERAS RIVER
LEVEE ACCREDITATION SURVEYS

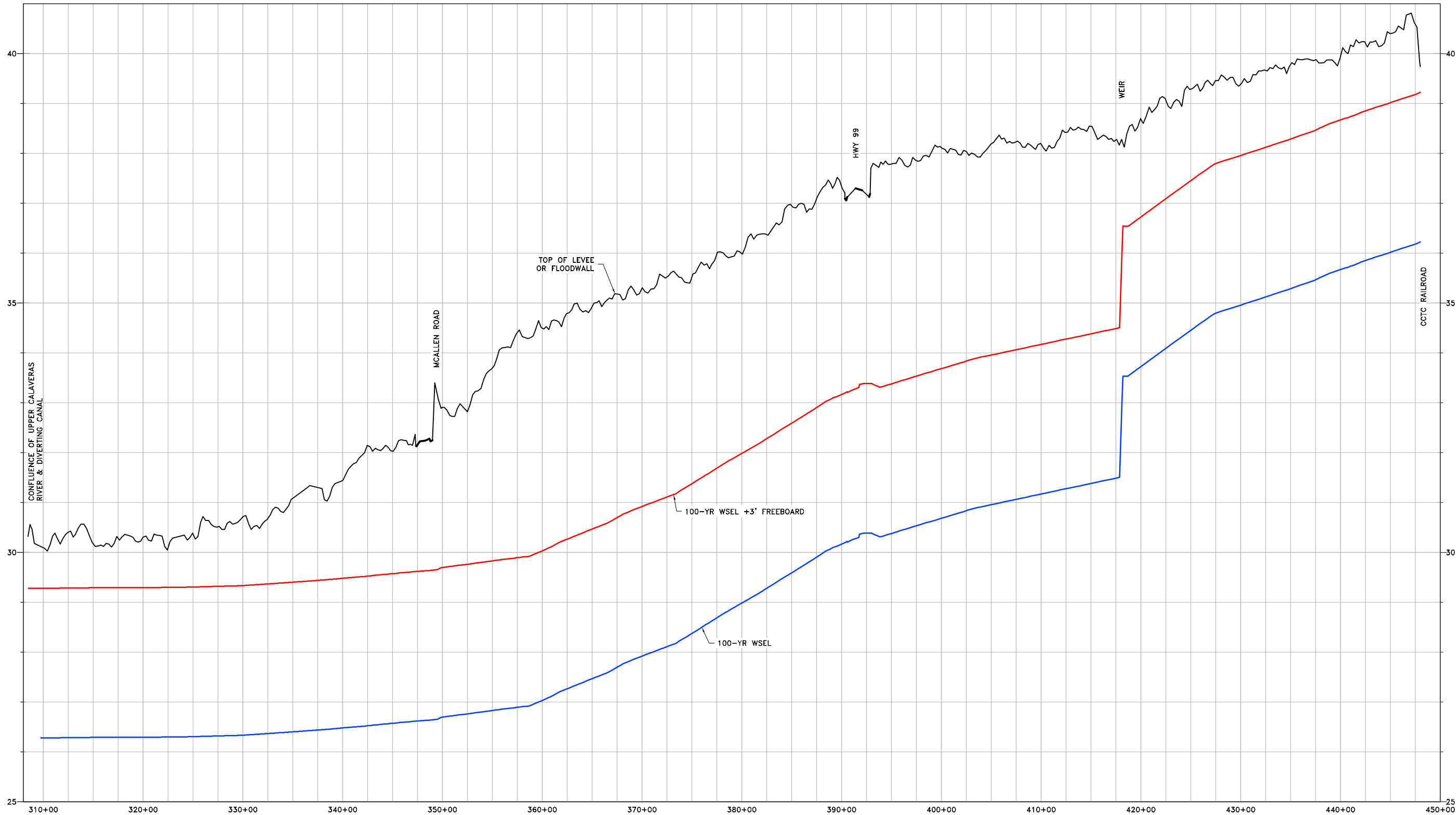
UPPER CALAVERAS RIVER – NORTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=500'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

FILE SPEC: P:\2091_SJA\CAIDQ\0140_Bear-CalaVeras_Accreditation\04_Survey\CADD\SHT\Upper_Calaveras\RFMP_Exhibits\Upper_Calaveras.dwg
PLOT DATE: Oct 15, 2014 - 2:57pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDSSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

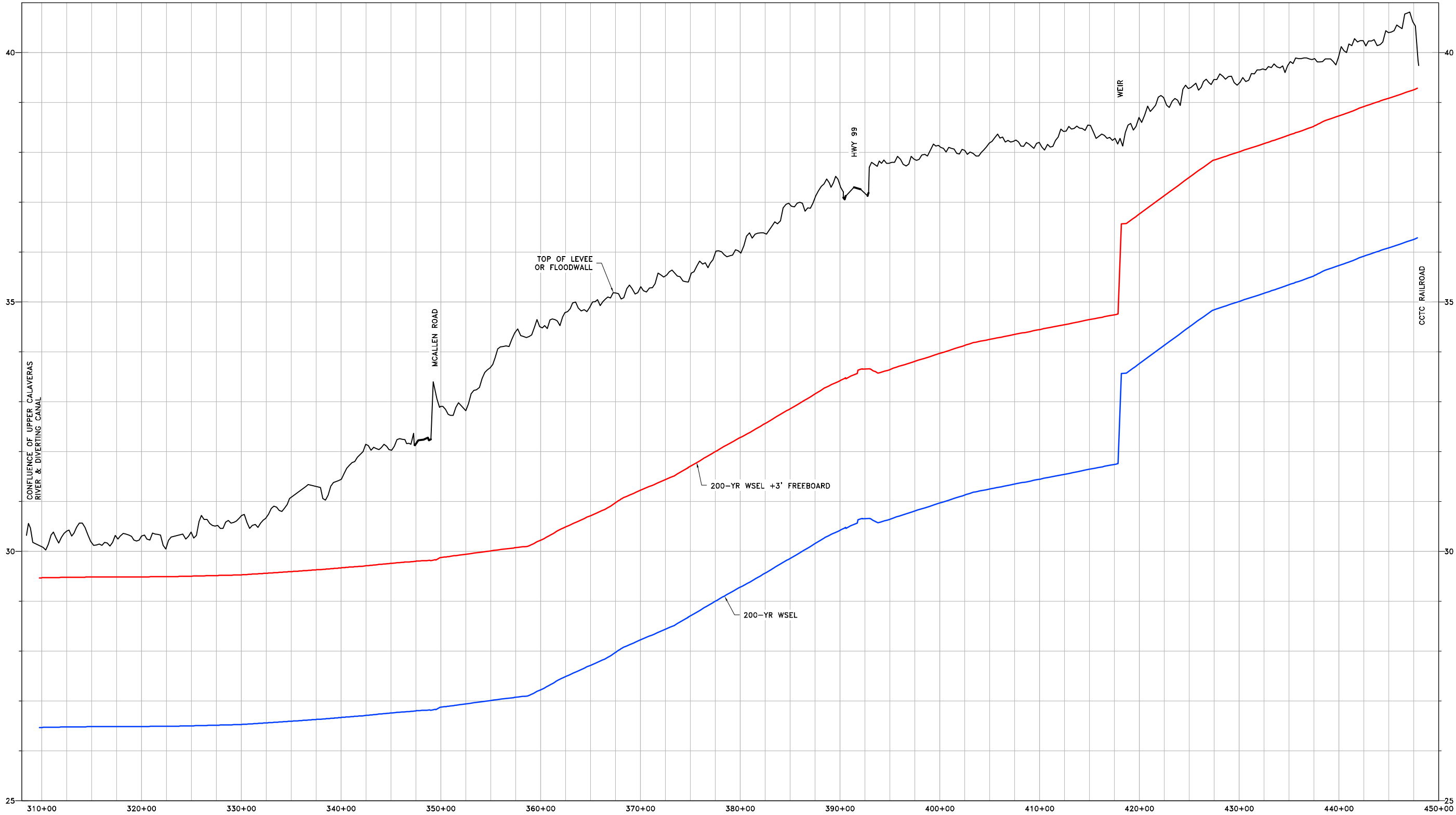
1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
UPPER CALAVERAS RIVER
LEVEE ACCREDITATION SURVEYS

UPPER CALAVERAS RIVER – SOUTH BANK
100-YEAR WATER SURFACE ELEVATION

Revisions					Design	Scale HOR: 1"=500' VERT: 1"=1' Original Drawing Scale 0 1/2" 1"	Date OCTOBER 2014
No.	Description	Date	By	Appr. By			
					Drawn JRT		Sheet Number 1 Of 1
					Check CHN		Project File No. 2091-0140

FILE SPEC: P:\2091_SJA\CA\IDQ\0140_Bear-CalaVeras_Accreditation\04_Survey\CADD\SH\Upper_Calaveras\RFMP_Exhibits\Upper_Calaveras.dwg
PLOT DATE: Oct 15, 2014 - 2:58pm



NOTES:
EXISTING GROUND PROFILE ELEVATIONS ARE BASED UPON A COMBINATION OF DATA FROM TASK ORDER 13 AND TASK ORDER 20 OF THE DWR CVFD LIDAR AND FIELD SURVEYS PERFORMED BY KSN IN 2014.
WATER SURFACE ELEVATION (WSEL) BASED ON PETERSON BRUSTAD INC. 2014 STUDY
VERTICAL DATUM: NAVD 88

LEGEND	
	EXISTING GROUND
	TOP OF FLOODWALL
	100-YR WATER SURFACE ELEVATION
	100-YR FREEBOARD (FB)

**K
S
N**
INC.

**KJELDTSEN
SINNOCK
NEUDECK**
Civil Engineers
and Land Surveyors

711 N. Pershing Avenue
Stockton, CA 95203
(209) 946-0268

1355 Halyard Drive, Suite 180
West Sacramento, CA 95691
(916) 403-5900
www.ksninc.com

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
UPPER CALAVERAS RIVER
LEVEE ACCREDITATION SURVEYS

UPPER CALAVERAS RIVER – SOUTH BANK
200-YEAR WATER SURFACE ELEVATION

Revisions					Design
No.	Description	Date	By	Appr. By	
					Drawn JRT
					Check CHN

Scale
HOR: 1"=500'
VERT: 1"=1'

Original Drawing Scale
0 1/2" 1"

Date
OCTOBER 2014

Sheet Number
1 Of 1

Project File No.
2091-0140