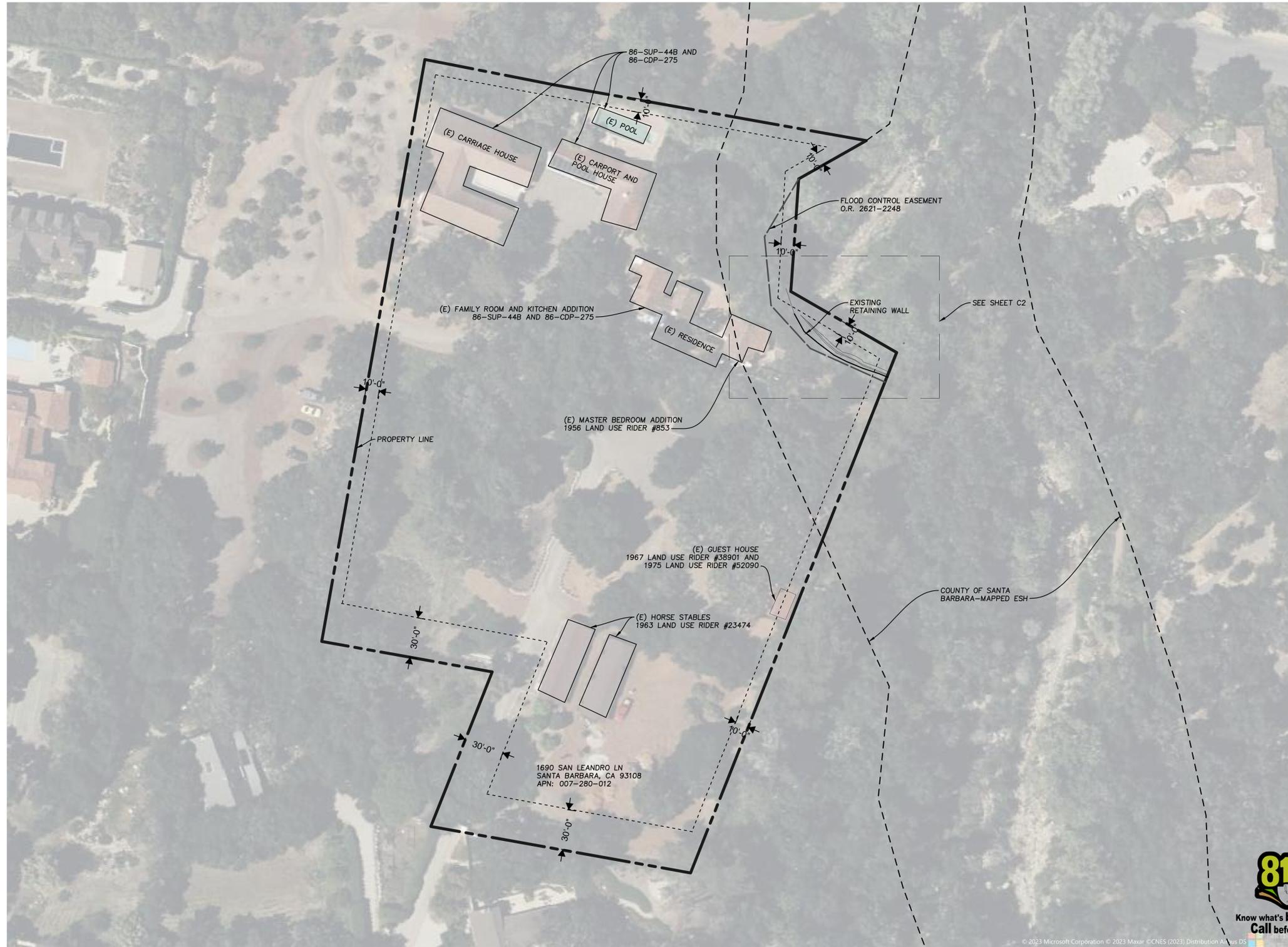


1690 SAN LEANDRO LN RETAINING WALL AS-BUILT

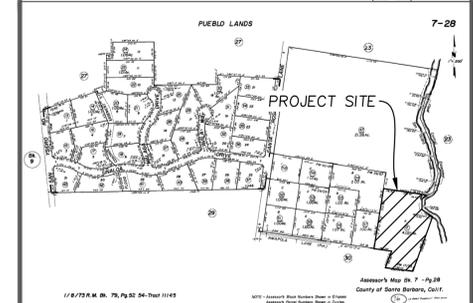
1690 SAN LEANDRO LN.
SANTA BARBARA, CA. 93108
APN: 007-280-012



VICINITY MAP N.T.S.



ASSESSORS PARCEL MAP N.T.S.



PROJECT DATA

PROJECT ADDRESS: 1690 SAN LEANDRO LN
SANTA BARBARA, CA 93108
APN: 007-280-012

CLIENT INFORMATION: BOB GREENE
330 N BRAND BLVD, SUITE 700
GLENDALE, CA 91203

PROPOSED WORK: AS-BUILT PLANS FOR ONE EXISTING ROCK
RETAINING WALLS.

TOPOGRAPHIC INFORMATION:

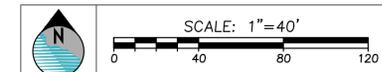
SURVEY PREPARED BY: TARTAGLIA ENGINEERING
DATE PERFORMED: 07/28/2023
VERTICAL DATUM: NAVD88
HORIZONTAL DATUM: NAD83
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE NAD83 CALIFORNIA
COORDINATE SYSTEM, ZONE 5 AS DERIVED BY STATIC GPS OBSERVATION
AND POST-PROCESSING THROUGH THE NGS OPUS ONLINE PORTAL.

ABBREVIATIONS

AC	ASPHALT CONCRETE	N.T.S.	NOT TO SCALE
BW	BACK OF WALK	PP	POWER POLE
C	COMMUNICATIONS	RFM	TOP OF STRUCTURE
CLF	CHAIN LINK FENCE	S	SEWER
CO	CLEANOUT	SD	STORM DRAIN
E	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SL	SEWER LATERAL
FF	FINISHED FLOOR	SSMH	SEWER MANHOLE
FG	FINISHED GRADE	STBK	SETBACK
FH	FIRE HYDRANT	TC	TOP OF CURB
FL	FLOW LINE	TF	TOP OF FOOTING
FS	FINISHED SURFACE	TG	TOP OF GRATE
FW	FIRE WATER	TP	TOP OF PIPE
G	GAS	TW	TOP OF WALL
GFF	GARAGE FINISHED FLOOR	U	DRY UTILITIES
GM	GAS METER	W	WATER
HP	HIGH POINT	WM	WATER METER
INV	INVERT	WV	WATER VALVE
LP	LOW POINT		

SHEET INDEX

C1	TITLE SHEET
C2	RETAINING WALL SITE AND SECTIONS



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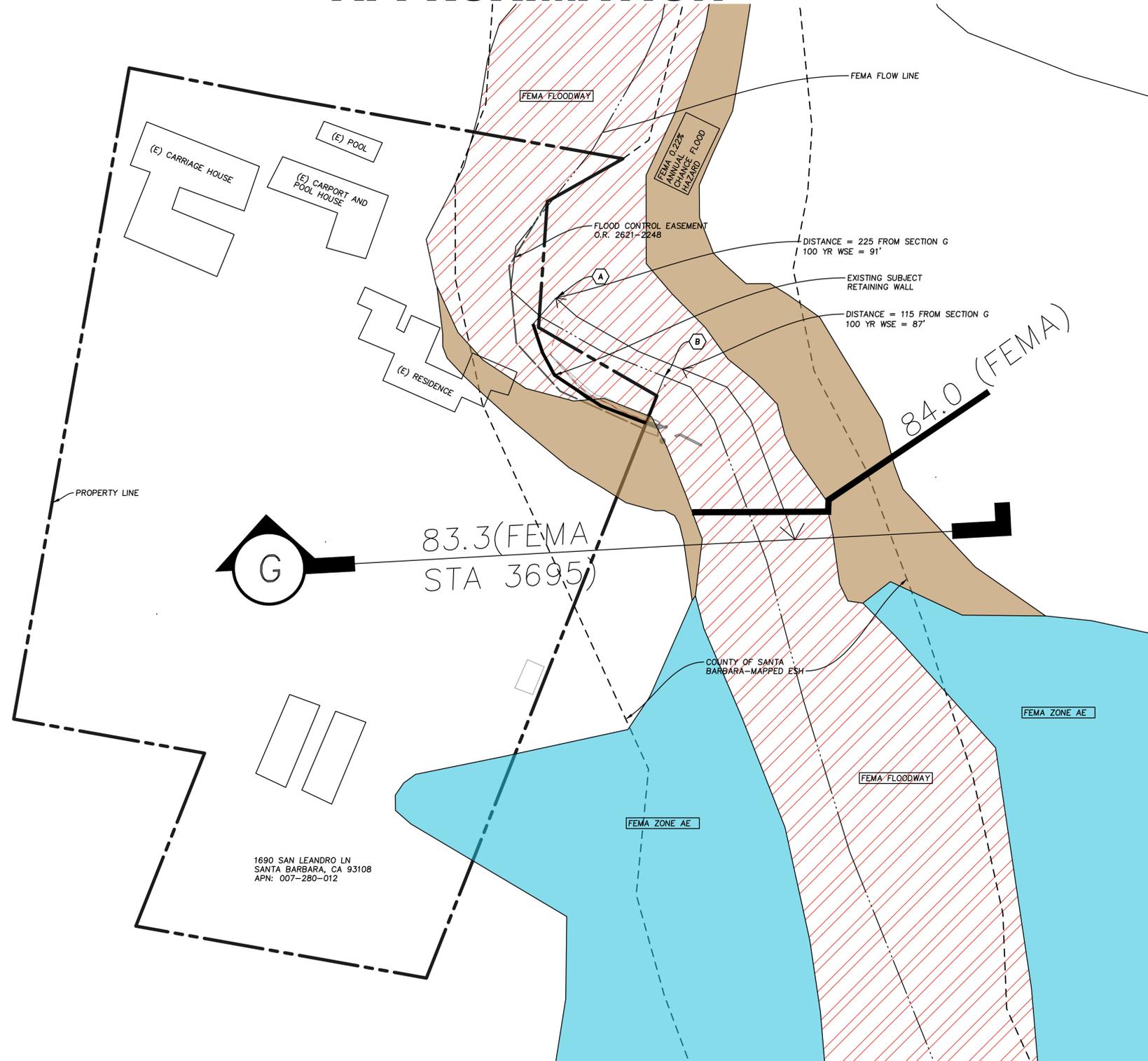
REVISIONS:	DATE:	DESCRIPTION:

LOCATION:	1690 SAN LEANDRO LN, SANTA BARBARA, CA 93108	DRAWN:	ALS	CHECKED:	TAR
PROJECT NO.:	007-280-012				
	23034	CLIENT:	BOB GREENE		

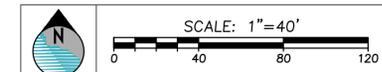
1690 SAN LEANDRO LN
RETAINING WALL AS-BUILT
TITLE SHEET

SHEET: **C1** OF: 2
DATE: NOV 30, 2023

FEMA FLOOD MAP BFE EXTRAPOLATION 100 YEAR WATER SURFACE APPROXIMATION



1690 SAN LEANDRO LN
SANTA BARBARA, CA 93108
APN: 007-280-012



FEMA MAP REFERENCE

**NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP**

**SANTA BARBARA
COUNTY, CALIFORNIA**
and Incorporated Areas

PANEL 1411 OF 1835

Panel Contains:
COMMUNITY SANTA BARBARA COUNTY
NUMBER 060331
PANEL 1411
SUFFIX H



MAP PROJECTION

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE NAD83 CALIFORNIA COORDINATE SYSTEM, ZONE 5 AS DERIVED BY STATIC GPS OBSERVATION AND POST-PROCESSING THROUGH THE NGS OPUS ONLINE PORTAL. VALUES FOR THE LOCAL CONTROL POINTS SET AS A PART OF THIS SURVEY ARE SHOWN IN THE TABLE HEREON.

BENCHMARK

THE VERTICAL DATUM FOR THIS SURVEY IS NAVD88 AS DERIVED BY STATIC GPS OBSERVATION AND POST-PROCESSING THROUGH THE NGS OPUS ONLINE PORTAL. VALUES FOR THE LOCAL CONTROL POINTS SET AS A PART OF THIS SURVEY ARE SHOWN IN THE TABLE HEREON.

FEMA MAP

GIS DOWNLOAD SHP FILE WITH A MAP PROJECTION OF NORTH AMERICAN DATUM 1983; WESTERN HEMISPHER; VERTICAL DATUM NAVD88

MAP BFE - FIS EXTRAPOLATION

100 YR BFE DETERMINATION

CROSS SECTION G = ELEVATION 83.3 (NAVD 88)
CROSS SECTION G = STATION 3695

LOCATION A:
DISTANCE FROM CROSS SECTION G TO BEGINNING (UPSTREAM END) OF SUBJECT WALL (LOCATION A) = 225' (CENTER OF FEMA FLOW LINE)
EXTRAPOLATED 100 YEAR BFE = 91' FROM FEMA FLOOD PROFILES @ 3695 + 225 = 3920'

LOCATION B:
DISTANCE FROM CROSS SECTION G TO END (DOWNSTREAM END) OF SUBJECT WALL (LOCATION B) = 115' (CENTER OF FEMA FLOW LINE)
EXTRAPOLATED 100 YEAR BFE = 87' FROM FEMA FLOOD PROFILES @ 3695 + 225 = 3810'

PROJECT DESCRIPTION

THE PROJECT IS A REQUEST FOR A COASTAL DEVELOPMENT PERMIT WITH HEARING TO LEGALIZE AN AS-BUILT CONSTRUCTION OF AN APPROXIMATELY 110 FT. LONG SANDSTONE BOULDER RETAINING WALL WITHIN THE SAN YSIDRO CREEK. THE WALL RANGES IN HEIGHT FROM 2 TO 12 FEET TALL AND 7.5 TO 15 FEET WIDE. NO GRADING OR TREE REMOVAL WILL OCCUR.



REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION	DRAWN	CHECKED	TAR
1690 SAN LEANDRO LN SANTA BARBARA, CA 93108 PROJECT NO. 007-280-012	NLC		
PROJECT NO. 23034			
CLIENT BOB GREENE			

**1690 SAN LEANDRO LN
FEMA MAP OVERLAY**

TITLE SHEET

SHEET: OF: 8

FPO

DATE: APRIL 12, 2024



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REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION: 1690 SAN LEANDRO LN. SANTA BARBARA, CA 93108	DRAWN NLC	CHECKED TAR
PROJECT NO. 007-280-012		
PROJECT NO. 23034		
CLIENT BOB GREENE		

1690 SAN LEANDRO LN
FIRM STUDY TABLE 24
FLOODWAY DATA

SHEET: OF: 8

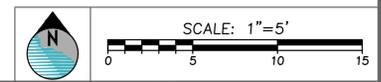
FP1

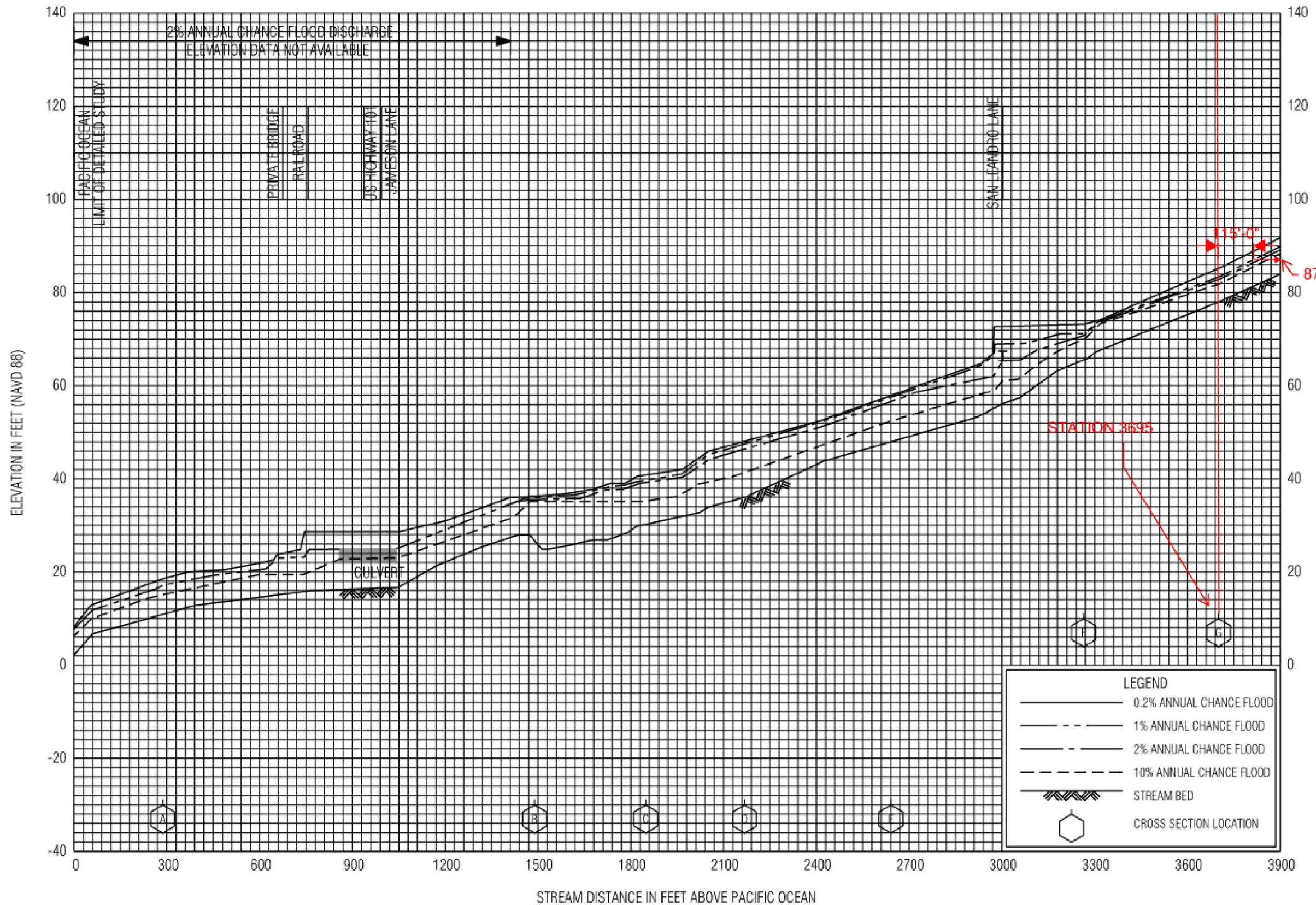
DATE: APRIL 12, 2024

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	278	1,170	*	*	17.0	17.0	18.0	1.0
B	1,478	207	661	5.3	35.8	35.8	35.8	0.0
C	1,848	65	324	10.8	39.6	39.6	39.6	0.0
D	2,165	393	747	4.7	47.6	47.6	47.7	0.1
E	2,640	260	500	7.0	58.4	58.4	58.5	0.1
F	3,264	143	462	7.6	70.9	70.9	71.0	0.1
G	3,695	83	314	11.1	83.3	83.3	83.3	0.0
H	5,084	114	352	10.0	129.4	129.4	129.4	0.0
I	5,566	46	259	13.5	145.1	145.1	145.1	0.0
J	6,390	52	269	13.0	177.4	177.4	177.4	0.0
K	6,759	59	281	12.4	192.2	192.2	192.2	0.0
L	8,235	56	277	12.6	251.5	251.5	251.5	0.0
M	8,592	59	281	12.4	269.4	269.4	269.4	0.0
N	9,328	50	269	13.0	303.1	303.1	303.1	0.0
O	9,932	61	303	12.7	341.4	341.4	341.4	0.0
P	10,516	68	314	12.3	382.8	382.8	382.8	0.0
Q	11,031	46	276	14.0	420.7	420.7	420.7	0.0
R	11,221	51	285	13.5	432.1	432.1	432.1	0.0
S	12,000	48	280	13.7	490.1	490.1	490.1	0.0
T	12,742	75	387	12.9	531.9	531.9	532.1	0.2

¹Feet above Pacific Ocean
*Data not available

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY SANTA BARBARA, CALIFORNIA AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: SAN YSIDRO CREEK
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FLOOD PROFILES

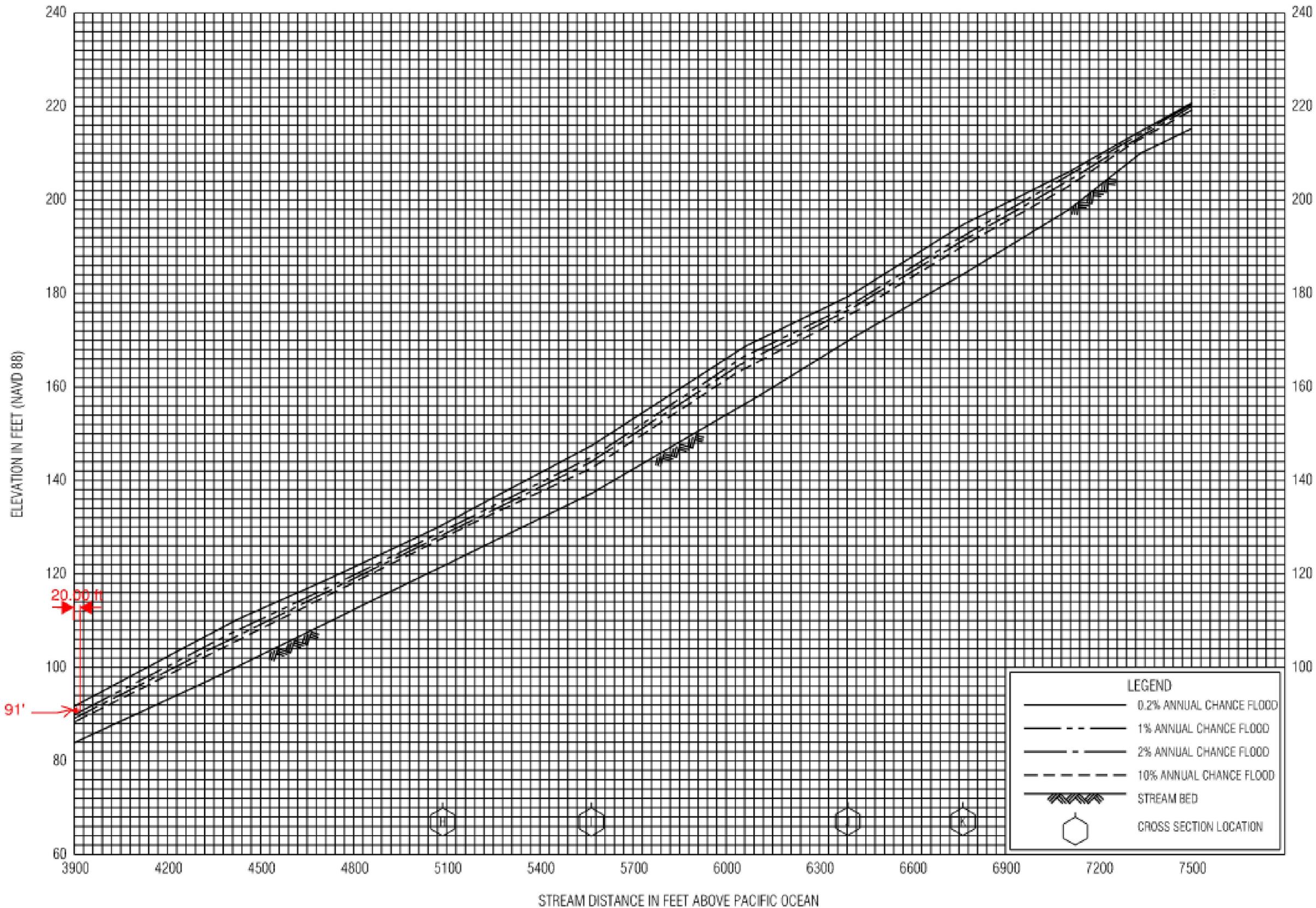
SAN YSIDRO CREEK

**FEDERAL EMERGENCY MANAGEMENT AGENCY
SANTA BARBARA COUNTY, CA
AND INCORPORATED AREAS**

153P

REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION 1690 SAN LEANDRO LN SANTA BARBARA, CA 93108 007-280-012	DRAWN NLC	CHECKED TAR
PROJECT NO. 23034	CLIENT BOB GREENE	



FLOOD PROFILES
SAN YSIDRO CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
SANTA BARBARA COUNTY, CA
AND INCORPORATED AREAS

154P



REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION 1690 SAN LEANDRO LN SANTA BARBARA, CA 93108 007-280-012	DRAWN NLC	CHECKED TAR
PROJECT NO. 23034	CLIENT BOB GREENE	

1690 SAN LEANDRO LN
FIRM PROFILE 154P
FLOOD PROFILES



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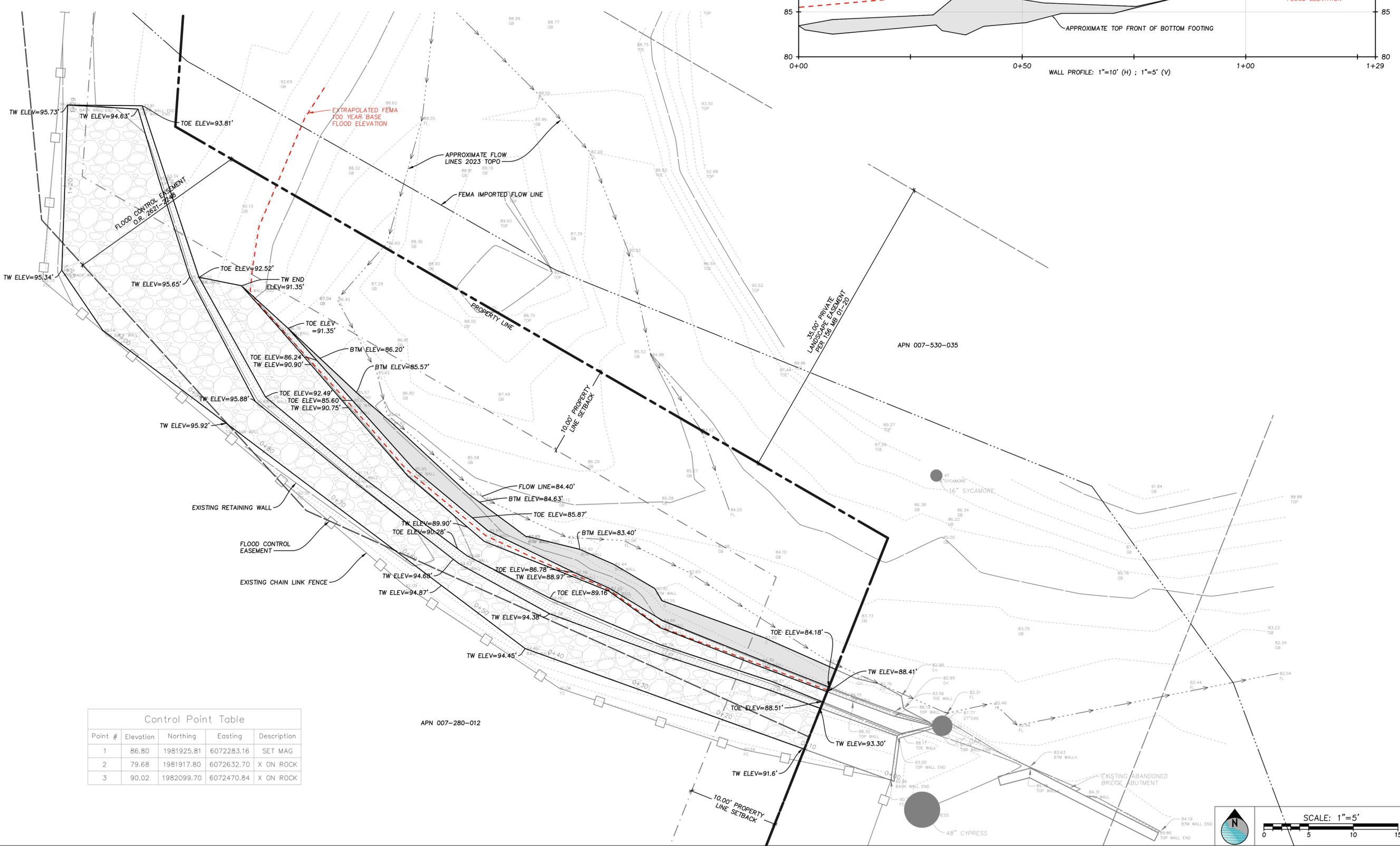
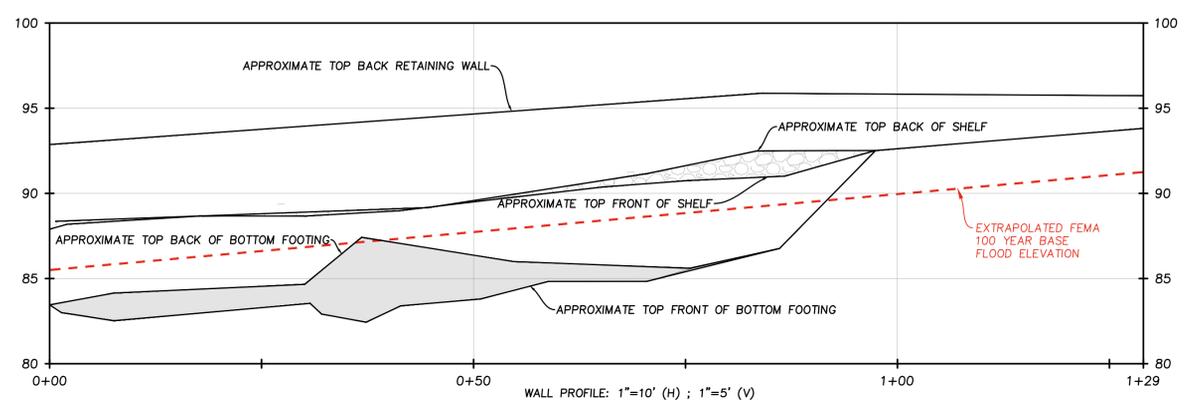


REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION	1690 SAN LEANDRO LN. SANTA BARBARA, CA 93108	DRAWN	NLC	CHECKED	TAR
PROJECT NO.	007-280-012				
PROJECT NO.	23034				
CLIENT	BOB GREENE				

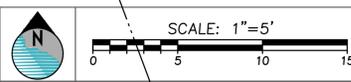
1690 SAN LEANDRO LN
EXTRAPOLATED 100 YR BFE PLAN AND PROFILE
RETAINING WALL SITE AND SECTIONS

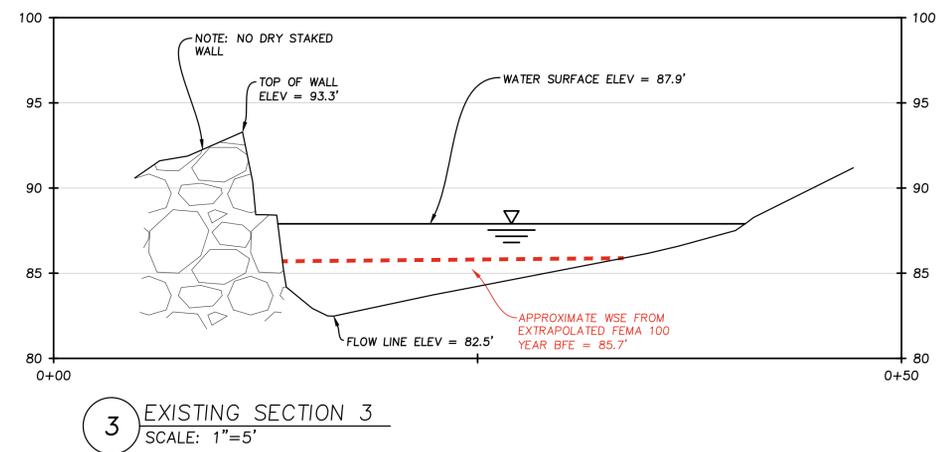
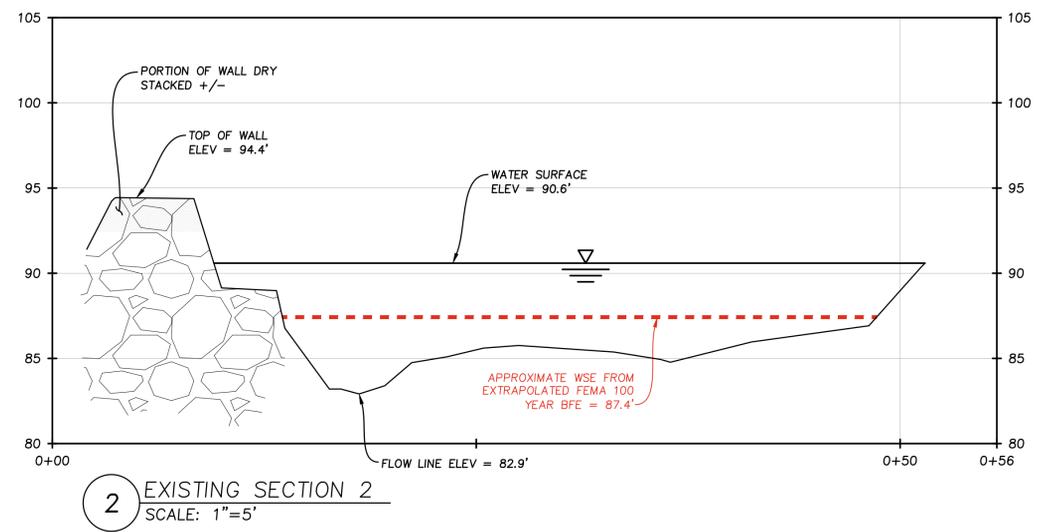
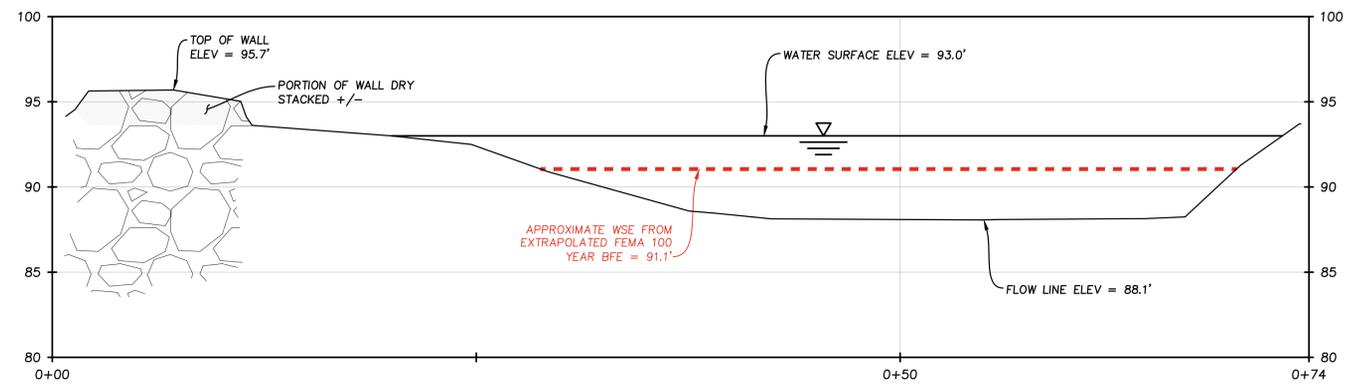
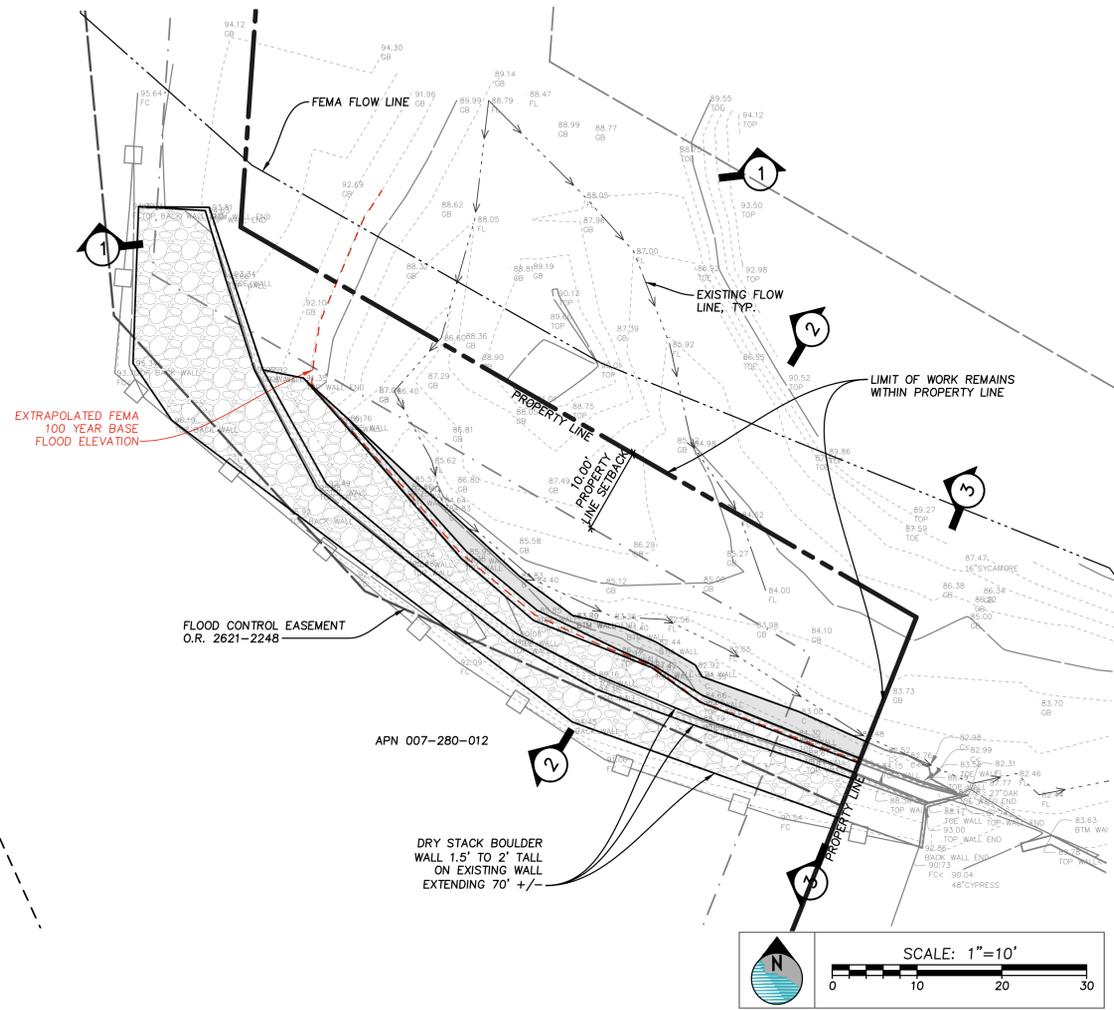
SHEET: OF: 8
FP5
DATE: APRIL 12, 2024



Control Point Table

Point #	Elevation	Northing	Easting	Description
1	86.80	1981925.81	6072283.16	SET MAG
2	79.68	1981917.80	6072632.70	X ON ROCK
3	90.02	1982099.70	6072470.84	X ON ROCK





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REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION	1690 SAN LEANDRO LN SANTA BARBARA, CA 93108	DRAWN	NLC	CHECKED	TAR
PROJECT NO.	007-280-012				
	23034				
CLIENT	BOB GREENE				

1690 SAN LEANDRO LN
EXTRAPOLATED 100 YR BFE PLAN AND PROFILE
EXISTING RETAINING WALL SITE AND SECTIONS

SHEET: OF: 8

FP6

DATE: APRIL 12, 2024



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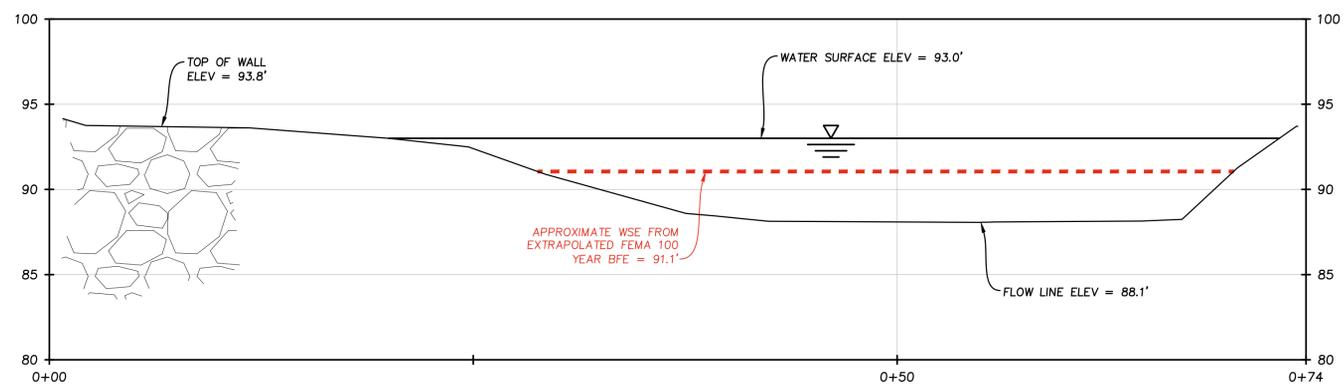
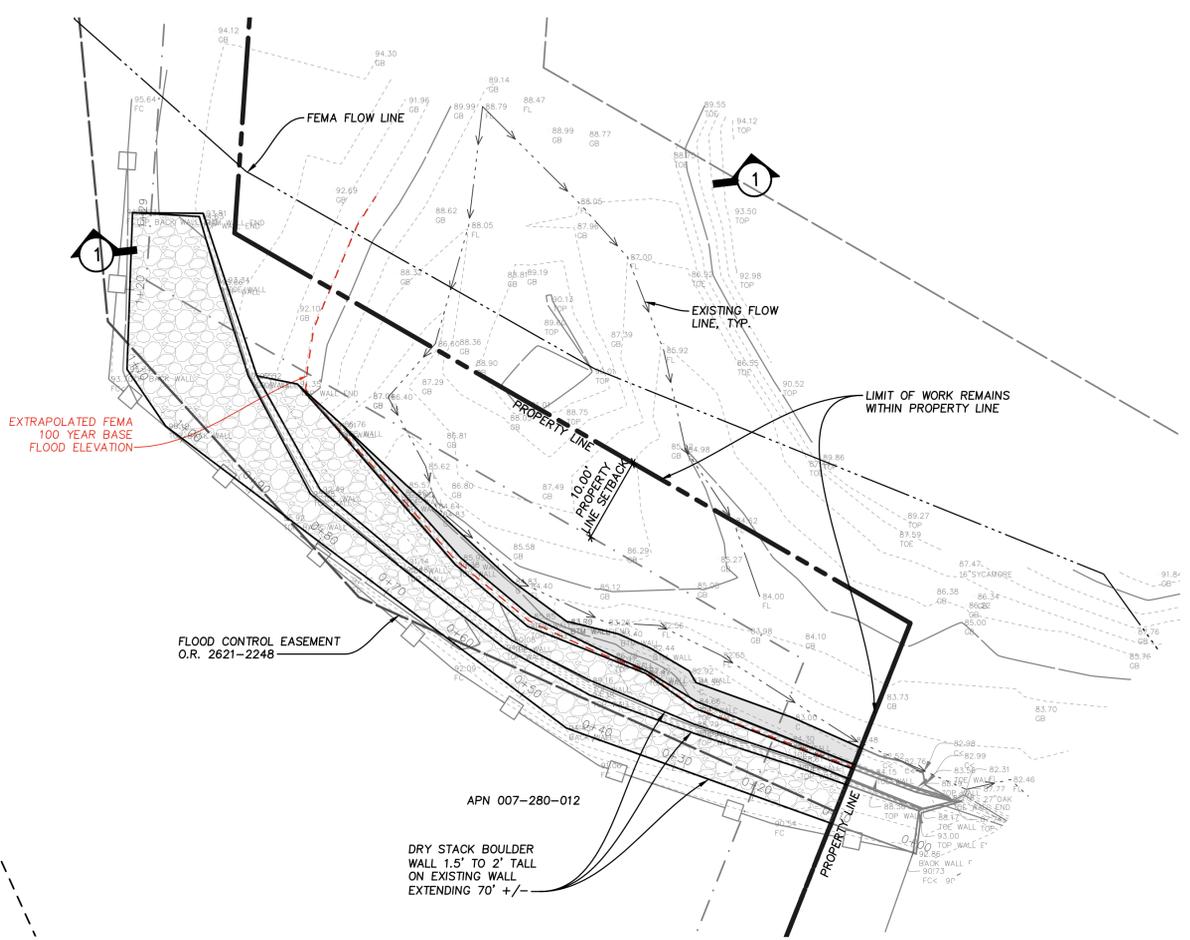


REVISIONS:	DATE:	DESCRIPTION:
1	02/04/2025	REVISIONS

LOCATION	1690 SAN LEANDRO LN SANTA BARBARA, CA 93108	DRAWN	NLC	CHECKED	TAR
PROJECT NO.	007-280-012				
CLIENT	BOB GREENE				

1690 SAN LEANDRO LN
EXTRAPOLATED 100 YR BFE PLAN AND PROFILE
PROPOSED RETAINING WALL SITE AND SECTIONS

SHEET: OF: 8
FP7
DATE: APRIL 12, 2024



1 PROPOSED SECTION 1
SCALE: 1"=5'



Depth (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)
4.90	3,500	186.1	18.80	54.80	6.60	52.44	10.40

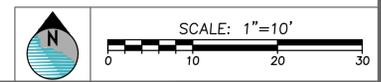
HYDRAFLOW EXPRESS RESULTS FOR SECTION 1

SUMMARY OF HYDRAULIC CALCULATIONS

CREEK FLOW, $Q=VA= (314 \text{ FT}^2)(11.1 \text{ FT/SEC}) = 3500 \text{ CFS}$
(FROM FEMA FLOODWAY DATA, SHEET FP1)

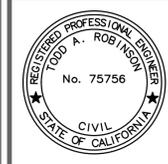
MANNING'S "N" VALUE ASSUMED TO BE 0.040 FOR MAIN CHANNEL, CLEAN, WINDING, SOME POOLS AND SHOALS.
[HTTPS://WWW.FSL.ORST.EDU/GEOWATER/FX3/HELP/8_HYDRAULIC_REFERENCE/MANNINGS_N_TABLES.HTM](https://www.fsl.orst.edu/geowater/fx3/help/8_HYDRAULIC_REFERENCE/MANNINGS_N_TABLES.HTM)

CHANNEL SLOPE FOUND TO BE APPROX. 5% FROM TOPO





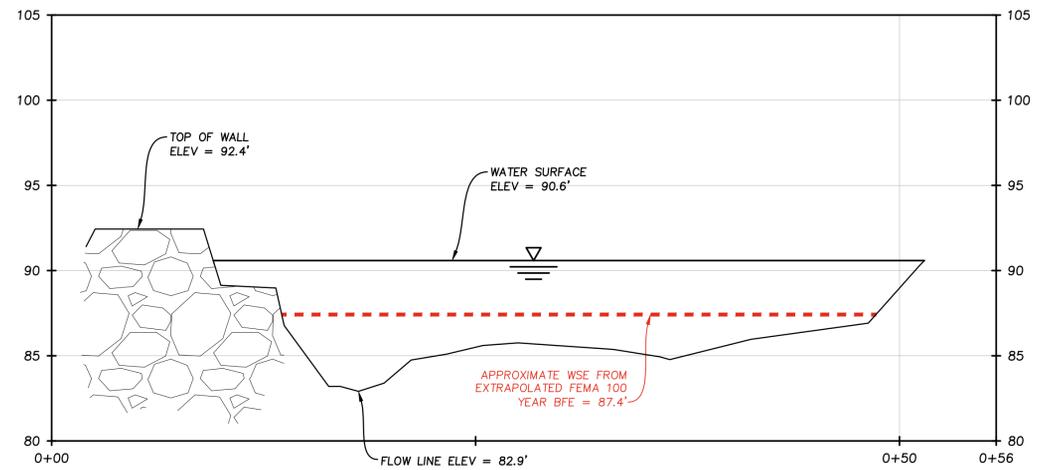
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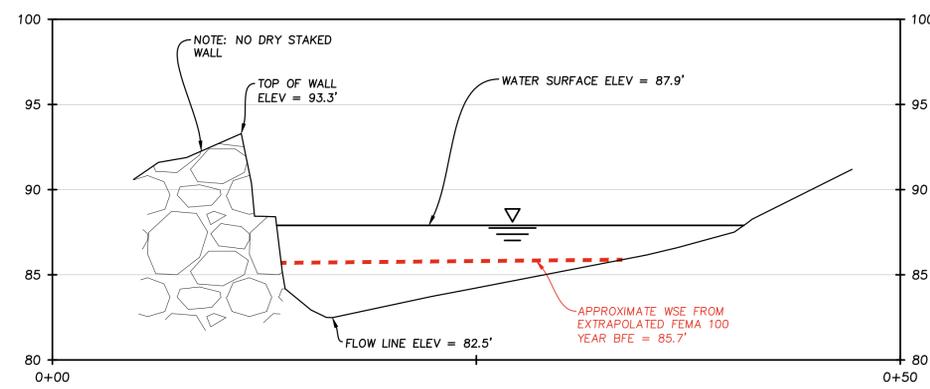
REVISIONS:	DESCRIPTION:
1	02/04/2025
	REVISIONS

LOCATION:	1690 SAN LEANDRO LN SANTA BARBARA, CA 93108	DRAWN:	NLC	CHECKED:	TAR
PROJECT NO.:	007-280-012	CLIENT:	BOB GREENE		
	230334				

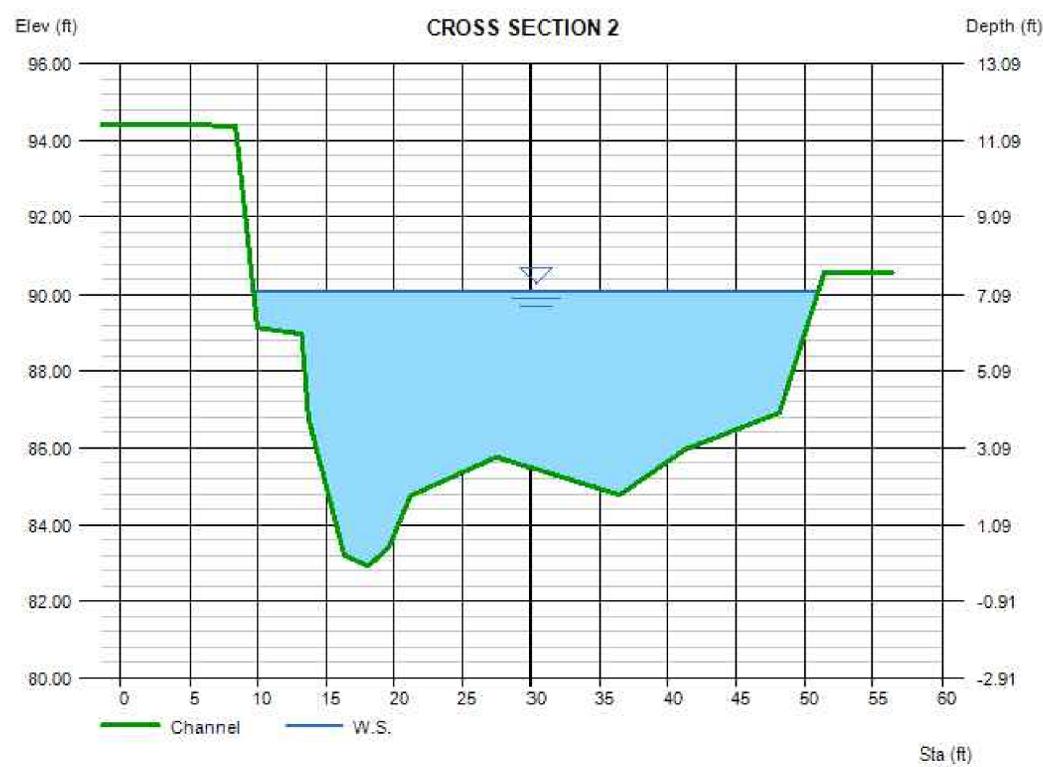
1690 SAN LEANDRO LN
EXTRAPOLATED 100 YR BFE PLAN AND PROFILE
PROPOSED RETAINING WALL SITE AND SECTIONS



2 PROPOSED SECTION 2
SCALE: 1"=5'

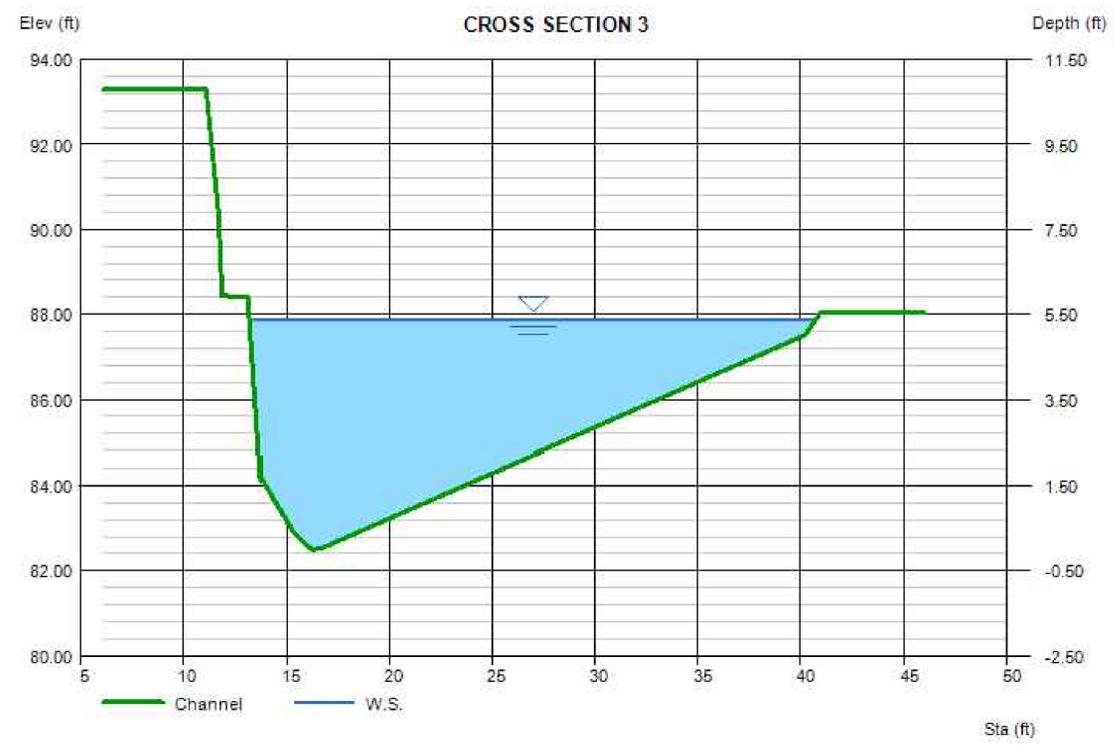


3 PROPOSED SECTION 3
SCALE: 1"=5'



Depth (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)
7.19	3,500	176.8	19.79	47.99	9.00	41.35	13.28

HYDRAFLOW EXPRESS RESULTS FOR SECTION 2



Depth (ft)	Q (cfs)	Area (sqft)	Veloc (ft/s)	Wp (ft)	Yc (ft)	TopWidth (ft)	Energy (ft)
5.40	1,298	82.72	15.69	31.95	6.54	27.53	9.22

HYDRAFLOW EXPRESS RESULTS FOR SECTION 3

