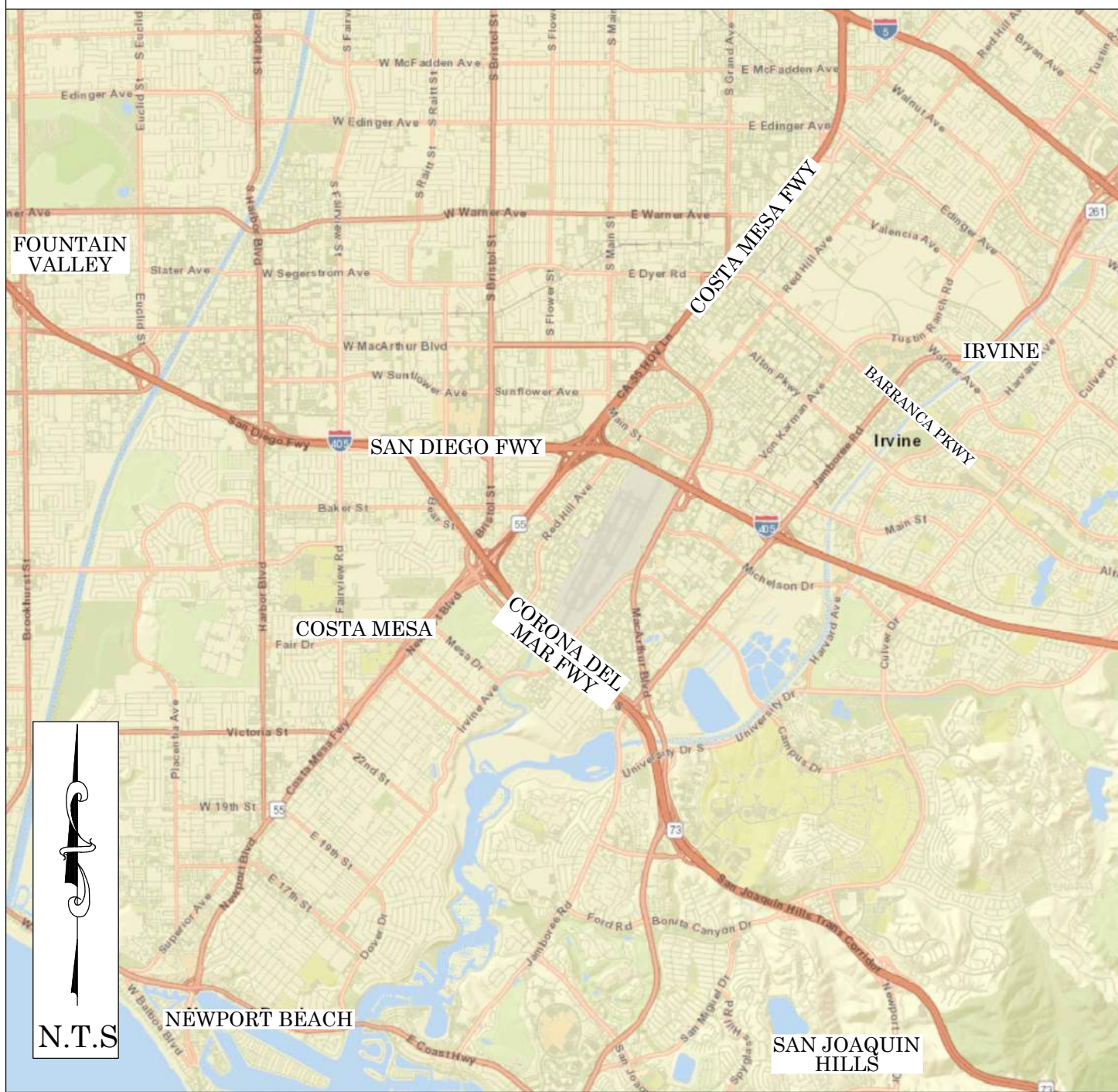




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
SAN DIEGO CREEK HYDRAULIC STUDY

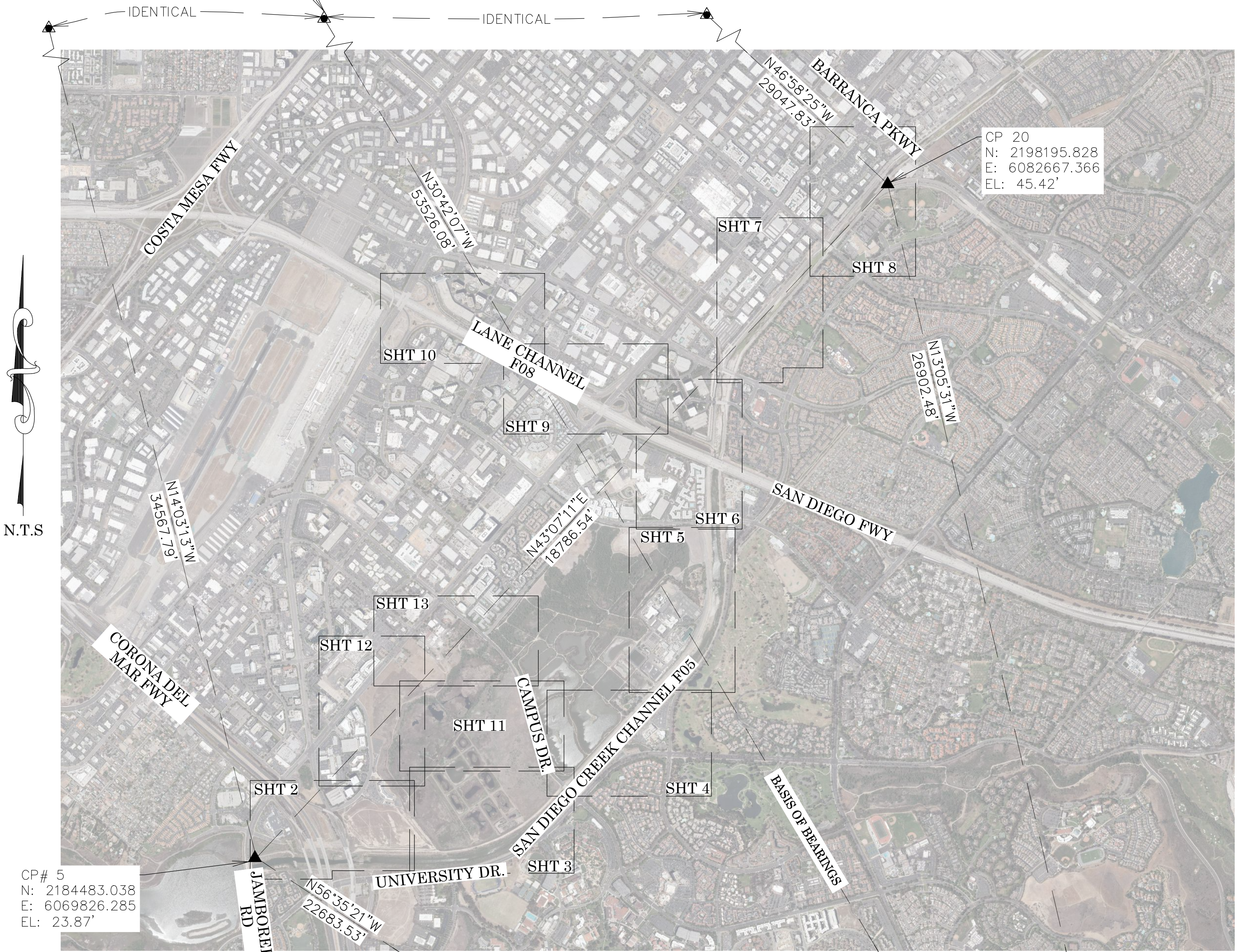


LOCATION MAP



FOUND CGPS "SACY"
N: 2218016.191
E: 6061432.266
THIS IS A CONTINUOUS GPS
STATION (CGPS) AND IS PART OF
THE CALIFORNIA SPATIAL
REFERENCE NETWORK (CSRN).

SAN DIEGO CREEK (F05)& LANE
CHANNEL(F08)



CP# 5
N: 2184483.038
E: 6069826.285
EL: 23.87'

CP 20
N: 2198195.828
E: 6082667.366
EL: 45.42'

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS STATIONS SACY AND TRAK BEING NORTH 30°42'07" WEST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.
ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00002620.
THIS COMBINATION FACTOR WAS HELD AT: CP# 5
N: 2184483.038 E: 6069826.285 EL: 23.87'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

NAVD 1988 (O.C.S. 1995 ADJUSTMENT)
ELEVATIONS SHOWN HEREON WERE HELD AT CALIFORNIA SPATIAL REFERENCE SYSTEM CONTINUOUS GLOBAL POSITIONING STATION (CGPS) "TRAK" ELEVATION (ORTHOMETRIC HEIGHT)=495.18'

SHEET INDEX

SHEET	NO.	DESCRIPTION
1	1	TITLE SHEET
2-13	2-13	TOPOGRAPHIC MAP

ALIGNMENT NOTE

STATION 7+05.27 WAS HELD SOUTHWESTERLY OF JAMBOREE ROAD PER HISTORIAL ORANGE COUNTY FLOOD CONTROL DISTRICT RECORD DRAWING F05-101-4-A DATED AUGUST 1969. RECORD DRAWINGS F05-101-2-A, F01-101-6-A & F05-701-7. THE LANE CHANNEL (F08) PORTION WAS NOT ESTABLISHED BY THIS SURVEY, AND WILL REQUIRE FURTHER INVESTIGATION.

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY WAS TO PROVIDE A TOPOGRAPHY TO BE USED IN A HYDRAULIC STUDY. THE INTENT OF THIS TOPOGRAPHY IS TO REFLECT OVERALL DRAINAGE, AND NOT TO BE USED FOR THE DESIGN OF FIXED WORKS, NOR LAND ACQUISITION OR BOUNDARY PURPOSES.
THE TERRAIN DATA SHOWN HEREON WAS COMPILED FROM AERIAL LIDAR PHOTOGRAMMETRY, AND CONVENTIONAL SURVEY DATA PERFORMED BY OC SURVEY. THIS DATA WAS MERGED WITH UNITED STATES GEOLOGICAL SURVEY (USGS) LIDAR DATA AND SHIFTED TO THE DATUMS STATED HEREIN.

SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 11 DAY OF JANUARY, 2024.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 11 DAY OF JANUARY, 2024.

HANNA AFTIM, PLS. SENIOR LAND SURVEYOR



TOPOGRAPHIC MAPPING PROJECT

FOUND CGPS "TRAK"
N: 2171992.613
E: 6088761.216
THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN).

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)			
			TITLE SHEET			
			PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD			
			DATE OF SURVEY:10/23/2023		BY:RUSSO/PAYAN & CREW	SHEET NO. 1 of 13
			MAPPING		BY:R. CASANAVE	
			OFFICE CHECK		BY:MICHAEL KUBISTY, PLS	
			FIELD CHECK		BY:BELTRAN & RODRIGUEZ	
			SCALE:N.T.S.		FILE # 2324PW-OP0003	
MARK	DATE	ITEM	REVISIONS			
			FILE:SAN DIEGO CREEK HYDRAULIC TOPO.DWG			



LEGEND

SYMBOL

△ Control Point

LINE PATTERN KEY

Building Outline

Centerline

Edge of Concrete

gl

Grade Line

hp

Hinge Point

Parcel Line

Striping

ABBREVIATION

BC Beginning of Curve

CL Centerline

CONC Concrete

CP Control Point

EL Elevation

EC End of Curve

FL Flowline

FD Found

INV Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.

0' 50' 100' 200' 300'

SCALE: 1" = 100'

CONTOUR INTERVAL: 2'

29' ELEVATION CONTOURS ADDED TO THE RIGHT SIDE OF SAN DIEGO CREEK CHANNEL F05

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05) & LANE CHANNEL(F08)	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH	
			ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD	
			DATE OF SURVEY: 10/23/2023	BY: RUSSO/PAYAN & CREW
			MAPPING	BY: R. CASANAVE
			OFFICE CHECK	BY: MICHAEL KUBISTY, PLS
			FIELD CHECK	BY: BELTRAN & RODRIGUEZ
			SCALE: 1" = 100'	W.O. #EF21268
			FILE #2324PW-OP0003	
			FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG	
MARK	DATE	ITEM		
REVISIONS				
			SHEET NO. 4 of 13	

LEGEND

SYMBOL
△ Control Point

LINE PATTERN KEY
Building Outline
Centerline
Edge of Concrete
Grade Line
Hinge Point
Parcel Line
Striping

ABBREVIATION
BC Beginning of Curve
CL Centerline
CONC Concrete
CP Control Point
EL Elevation
EC End of Curve
FL Flowline
FD Found
INV Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.

APN 445-061-28
APN 445-061-49
APN 445-061-53
APN 445-073-05
APN 453-252-04

SEE SHEET 6

RIPARIAN VIEW

SAN DIEGO CREEK CHANNEL F05

HARVARD AVE

APN 445-061-52

APN 445-061-48
45 RIPARIAN VW

APN 445-061-34
APN 445-061-36

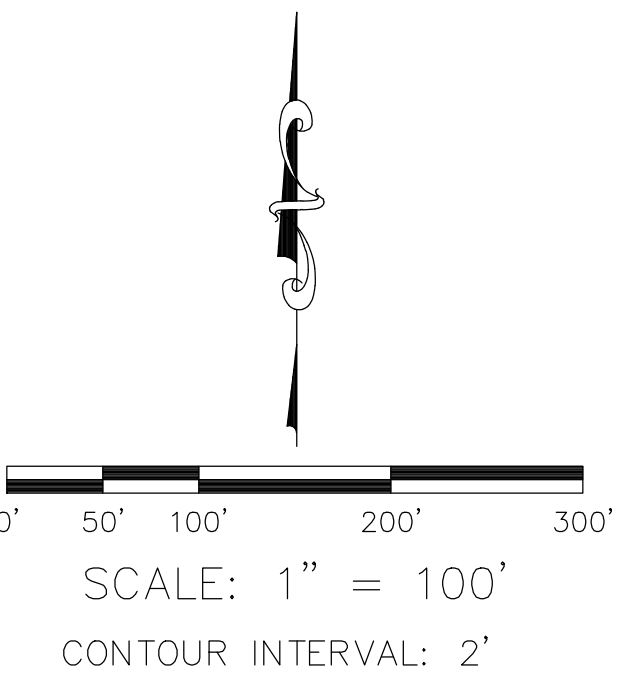
APN 445-061-19

APN 453-011-82
18021 CULVER DR
APN 453-011-89
18021 CULVER DR

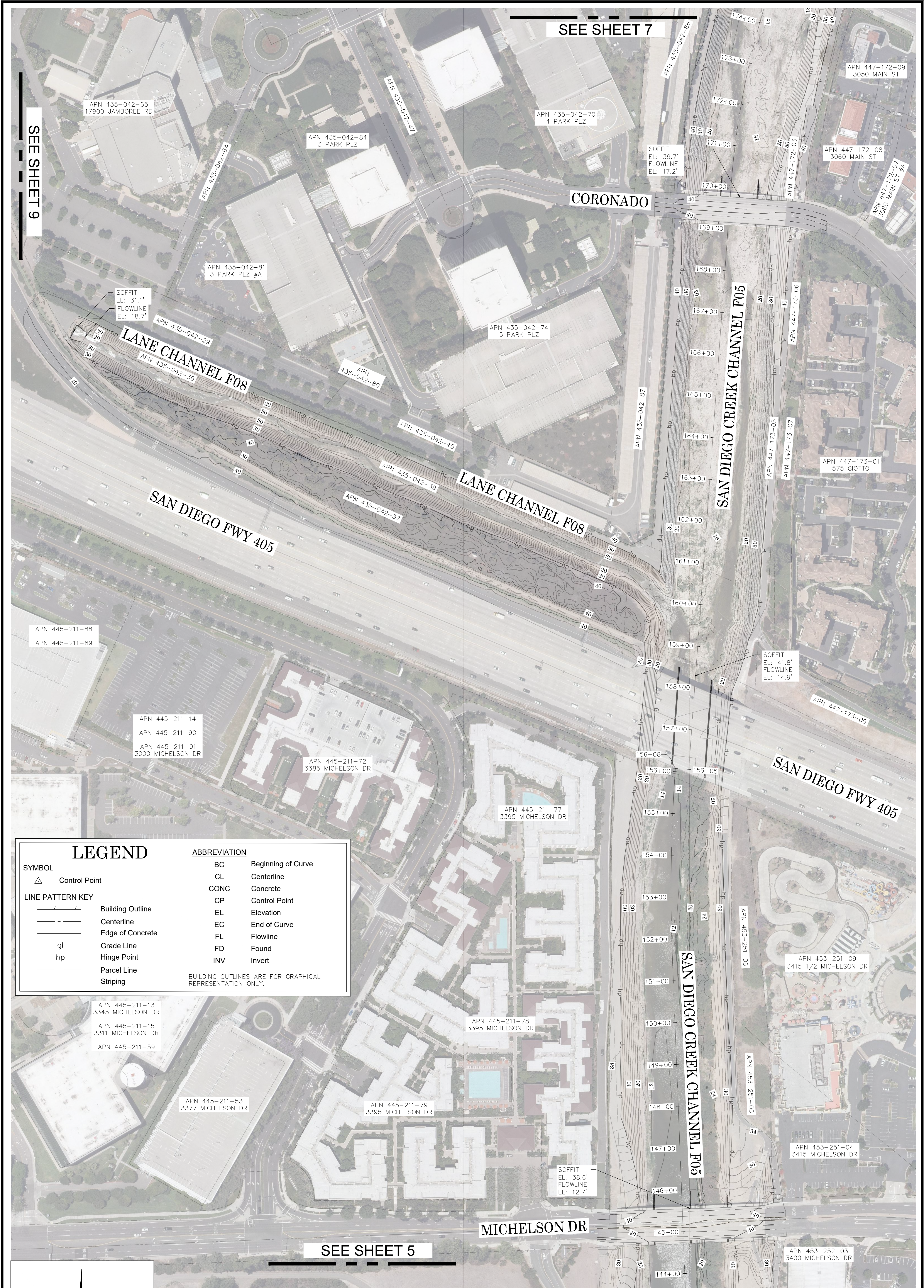
U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

SEE SHEET 4



COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)		
TOPOGRAPHIC MAP		
PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH		
ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD		
DATE OF SURVEY:10/23/2023		BY:R. CASANAVE
MAPPING		BY:MICHAEL KUBISTY, PLS
OFFICE CHECK		BY:BELTRAN & RODRIGUEZ
FIELD CHECK		FILE #2324PW-OP0003
SCALE: 1" = 100' W.O. #EF21268		FILE #2324PW-OP0003
FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG		
MARK	DATE	ITEM
REVISIONS		
SHEET NO.		5 of 13



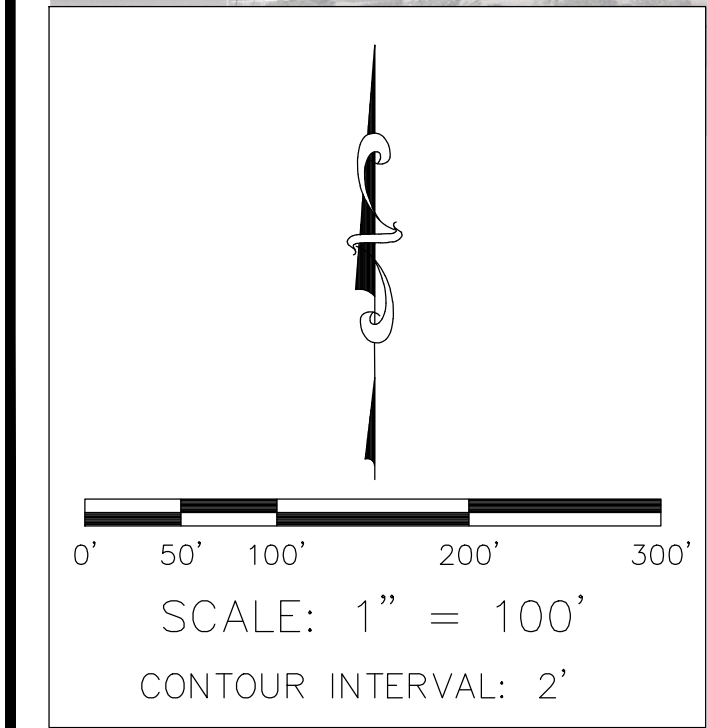
LEGEND

SYMBOL
△ Control Point

LINE PATTERN KEY
— Building Outline
— Centerline
— Edge of Concrete
— gl — Grade Line
— hp — Hinge Point
— Parcel Line
— Stripping

ABBREVIATION
BC Beginning of Curve
CL Centerline
CONC Concrete
CP Control Point
EL Elevation
EC End of Curve
FL Flowline
FD Found
INV Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.



U.S. Survey
Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)		
TOPOGRAPHIC MAP		
PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH		
ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD		
DATE OF SURVEY:10/23/2023	BY:RUSSO/PAYAN & CREW	SHEET NO. 6 of 13
MAPPING	BY:R. CASANAVE	
OFFICE CHECK	BY:MICHAEL KUBISTY, PLS	
FIELD CHECK	BY:BELTRAN & RODRIGUEZ	
SCALE: 1" = 100' W.O. #EF21268		FILE #2324PW-OP0003
FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG		
MARK	DATE	ITEM
REVISIONS		

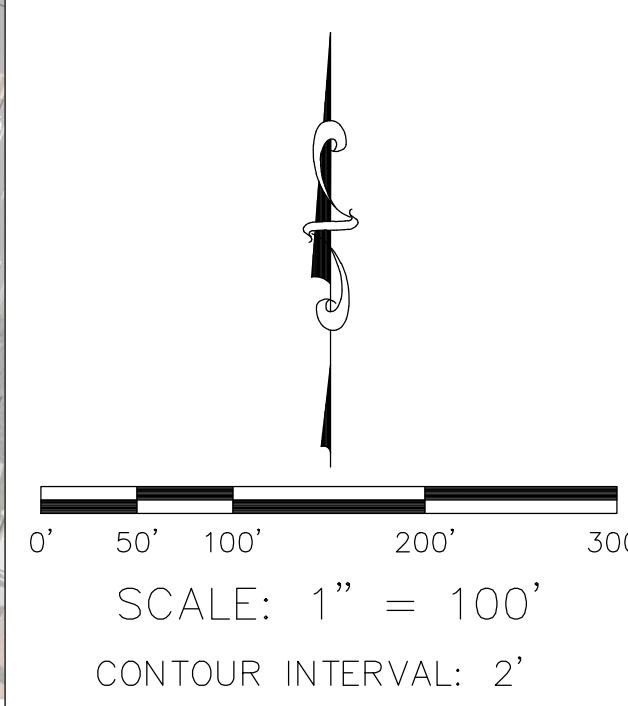
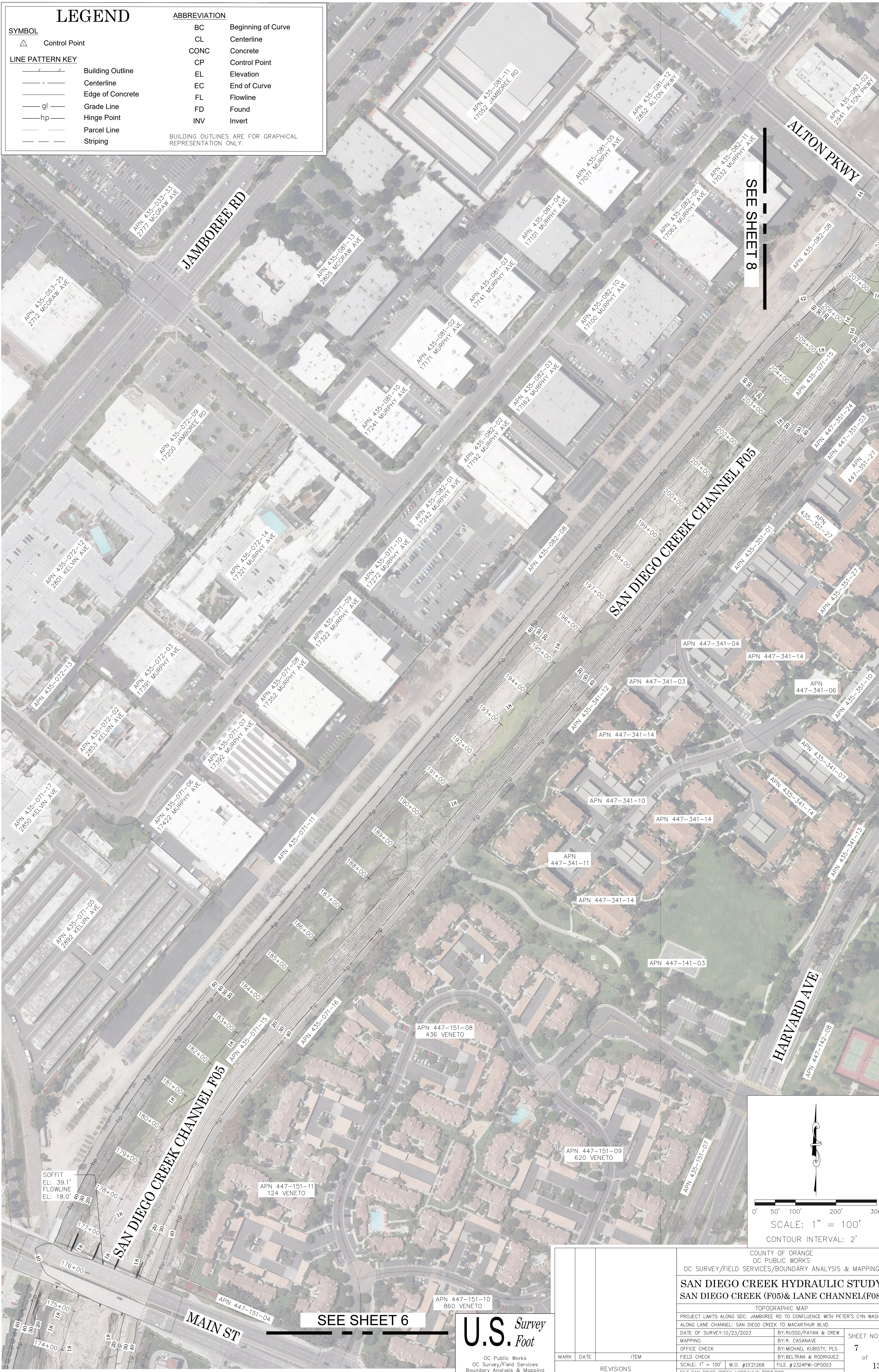
LEGEND

SYMBOL
△ Control Point

LINE PATTERN KEY
Building Outline
Centerline
Edge of Concrete
gl Grade Line
hp Hinge Point
Parcel Line
Striping

ABBREVIATION
BC Beginning of Curve
CL Centerline
CONC Concrete
CP Control Point
EL Elevation
EC End of Curve
FL Flowline
FD Found
INV Invert

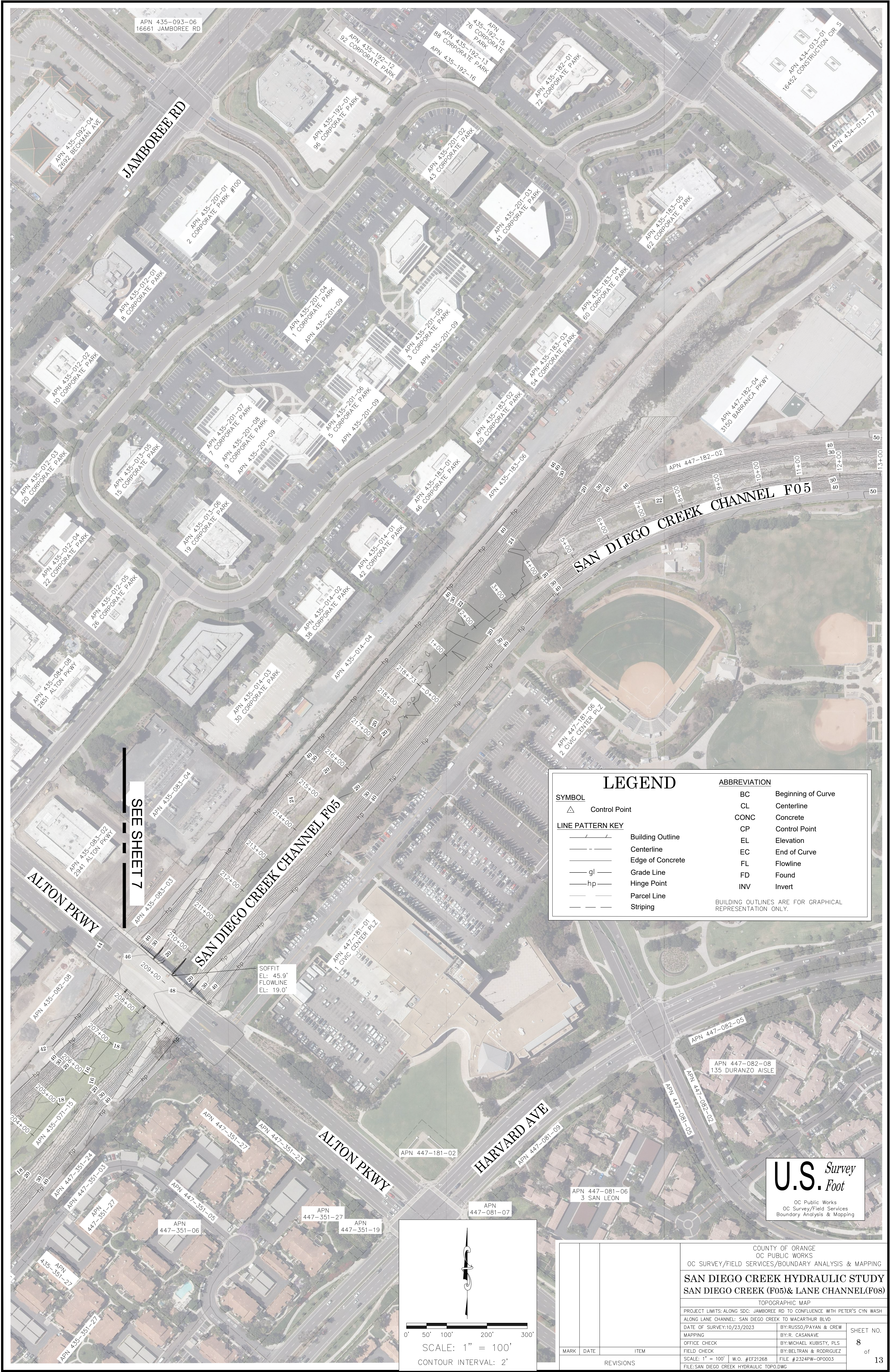
BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)				
TOPOGRAPHIC MAP				
PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD				
DATE OF SURVEY: 10/23/2023		BY: RUSSO/PAYAN & CREW		SHEET NO. 7 of 13
MAPPING		BY: R. CASANAVE		
OFFICE CHECK		BY: MICHAEL KUBISTY, PLS		
FIELD CHECK		BY: BELTRAN & RODRIGUEZ		
SCALE: 1" = 100' W.O. #EF21268		FILE # 2324PW-OP0003		
SUBMIT: D:\INFO\OTFW\LANE\LANE.DWG				
MARK	DATE	ITEM		
REVISIONS				

U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SEE SHEET 7

LEGEND

SYMBOL	
	Control Point

LINE PATTERN KEY	
	Building Outline
	Centerline
	Edge of Concrete
	Grade Line
	Hinge Point
	Parcel Line
	Stripping

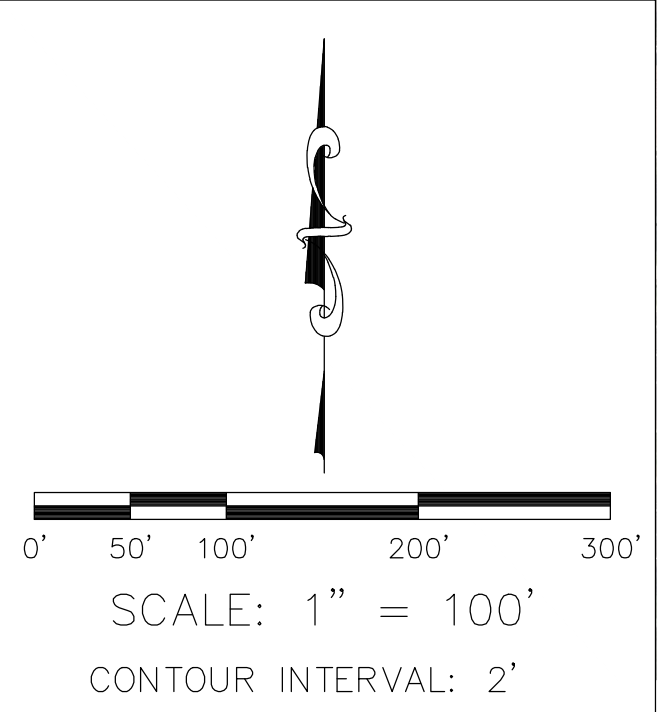
ABBREVIATION	
BC	Beginning of Curve
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.

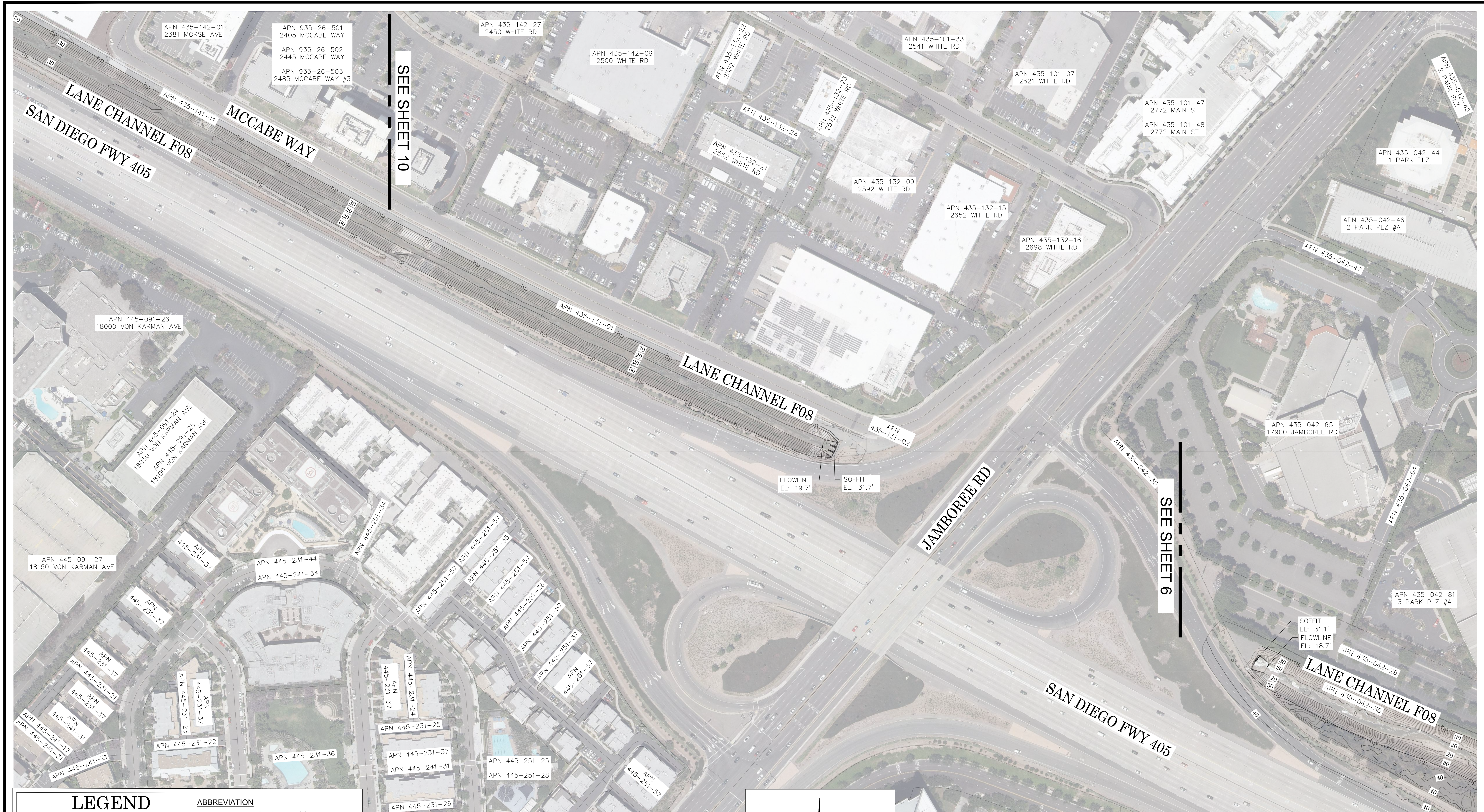
U.S. Survey

Foot

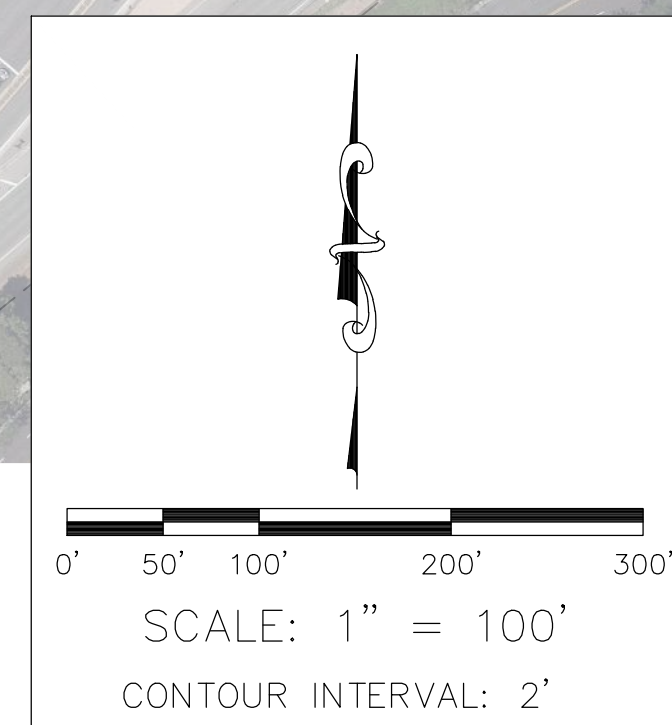
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)	
		TOPOGRAPHIC MAP	
		PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH	
		ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD	
		DATE OF SURVEY:10/23/2023	BY:RUSO/PAYAN & CREW
		MAPPING	BY:R. CASANAVE
		OFFICE CHECK	BY:MICHAEL KUBISTY, PLS
		FIELD CHECK	BY:BELTRAN & RODRIGUEZ
		SCALE: 1" = 100'	W.O. #EF21268
		FILE #2324PW-OP0003	
		FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG	
MARK	DATE	ITEM	SHEET NO.
REVISIONS			8 of 13



LEGEND		ABBREVIATION	
SYMBOL		BC	Beginning of Curve
	Control Point	CL	Centerline
LINE PATTERN KEY		CONC	Concrete
		CP	Control Point
		EL	Elevation
		EC	End of Curve
	 gl	FL	Flowline
	 hp	FD	Found
	 hp	INV	Invert
			
	 gl		
	 hp		
	 hp		
	 hp		
	 hp		
	 hp		
	 hp		
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	 hp		
	 hp		
	 hp		
	 hp		
	 hp		



U.S. *Survey Foot*

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)				
TOPOGRAPHIC MAP				
PROJECT LIMITS: ALONG SDC; JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH				
ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD				
			DATE OF SURVEY: 10/23/2023	SHEET NO. 9 of 13
			MAPPING	
			OFFICE CHECK	
			FIELD CHECK	
MARK	DATE	ITEM	SCALE: 1" = 100'	W.O. #EF21268
REVISIONS			FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG	FILE # 2324PW-OP0003



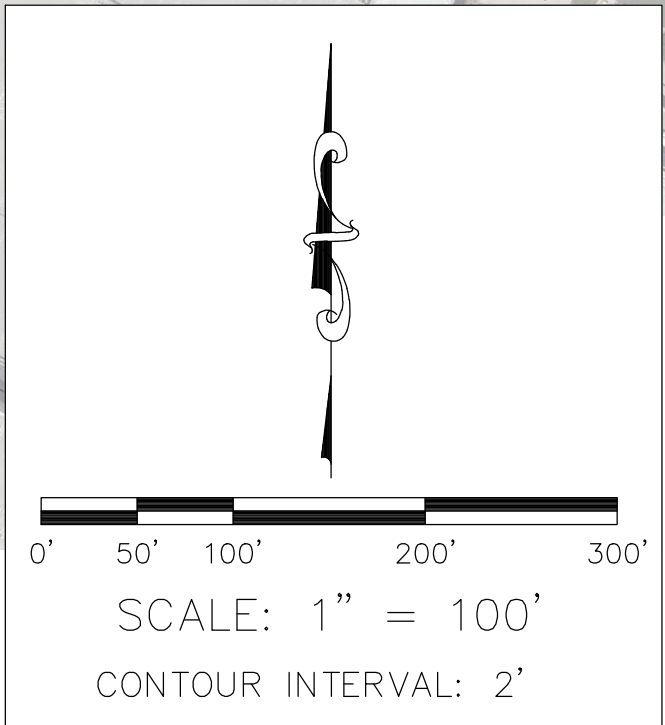
SEE SHEET 9

LEGEND

SYMBOL	
	Control Point
LINE PATTERN KEY	
	Building Outline
	Centerline
	Edge of Concrete
	Grade Line
	Hinge Point
	Parcel Line
	Striping

ABBREVIATION	
BC	Beginning of Curve
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.

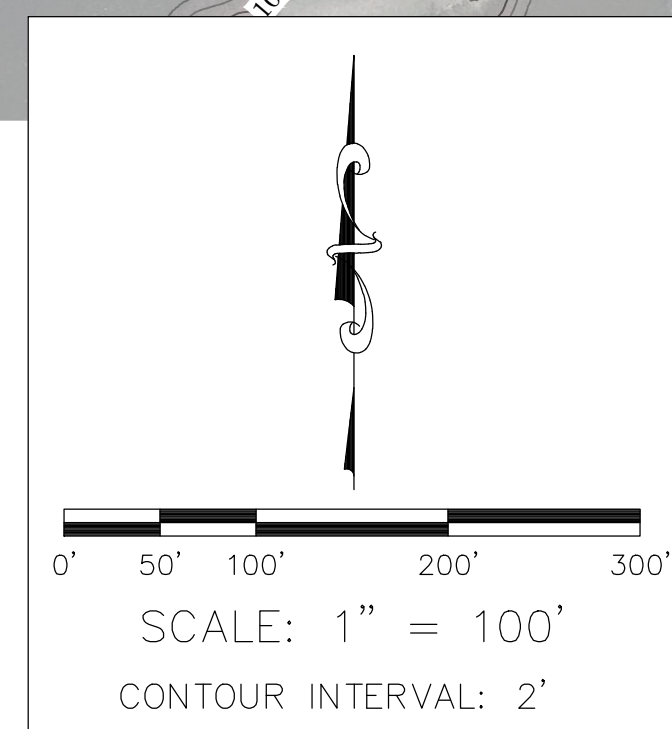


U.S. Survey
Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05) & LANE CHANNEL(F08)		
TOPOGRAPHIC MAP		
PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH		
ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD		
DATE OF SURVEY: 10/23/2023	BY: RUSSO/PAYAN & CREW	SHEET NO. 10 of 13
MAPPING	BY: R. CASANAVE	
OFFICE CHECK	BY: MICHAEL KUBISTY, PLS	
FIELD CHECK	BY: BELTRAN & RODRIGUEZ	
SCALE: 1" = 100' W.O. #EF21268		FILE #2324PW-OP0003
FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG		
MARK	DATE	ITEM
REVISIONS		



LEGEND		ABBREVIATION	
<u>SYMBOL</u>		BC	Beginning of Curve
△	Control Point	CL	Centerline
<u>LINE PATTERN KEY</u>		CONC	Concrete
	Building Outline	CP	Control Point
	Centerline	EL	Elevation
	Edge of Concrete	EC	End of Curve
	Grade Line	FL	Flowline
	Hinge Point	FD	Found
	Parcel Line	INV	Invert
	Striping	BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.	



U.S. *Survey Foot*

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS:ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH				
			ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD				
			DATE OF SURVEY:10/23/2023		BY:RUSSO/PAYAN & CREW		SHEET NO. 11 of 13
			MAPPING		BY:R. CASANAVE		
			OFFICE CHECK		BY:MICHAEL KUBISTY, PLS		
			FIELD CHECK		BY:BELTRAN & RODRIGUEZ		
			MARK	DATE	ITEM	SCALE: 1" = 100' W.O. #EF21268 FILE #2324P-WP0003	
REVISIONS			FILE:SAN DIEGO CREEK HYDRAULIC TOPO.DWG				



SEE SHEET 13

SEE SHEET 11

SEE SHEET 3

SEE SHEET 2

U.S. Survey
Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

SCALE: 1" = 100'

CONTOUR INTERVAL: 2'

LEGEND		ABBREVIATION	
SYMBOL		BC	Beginning of Curve
	Control Point	CL	Centerline
LINE PATTERN KEY		CONC	Concrete
	Building Outline	CP	Control Point
	Centerline	EL	Elevation
	Edge of Concrete	EC	End of Curve
	Grade Line	FL	Flowline
	Hinge Point	FD	Found
	Parcel Line	INV	Invert
	Striping	BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.	

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH			
			ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD			
			DATE OF SURVEY:10/23/2023		BY:RUSSO/PAYAN & CREW	
			MAPPING		BY:R. CASANAVE	
			OFFICE CHECK		BY:MICHAEL KUBISTY, PLS	
MARK	DATE	ITEM	FIELD CHECK		BY:BELTRAN & RODRIGUEZ	
			SCALE: 1" = 100'		W.O. #EF21268	FILE #2324PW-OP0003
		REVISIONS	FILE:SAN DIEGO CREEK HYDRAULIC TOPO.DWG			
			SHEET NO. 12 of 13			



LEGEND

SYMBOL

△ Control Point

LINE PATTERN KEY

—	Building Outline
— — —	Centerline
—	Edge of Concrete
—gl—	Grade Line
—hp—	Hinge Point
—	Parcel Line
— — —	Striping

ABBREVIATION

BC	Beginning of Curve
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert

BUILDING OUTLINES ARE FOR GRAPHICAL REPRESENTATION ONLY.



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			SAN DIEGO CREEK HYDRAULIC STUDY SAN DIEGO CREEK (F05)& LANE CHANNEL(F08)	
			TOPOGRAPHIC MAP	
			PROJECT LIMITS: ALONG SDC: JAMBOREE RD TO CONFLUENCE WITH PETER'S CYN WASH	
			ALONG LANE CHANNEL: SAN DIEGO CREEK TO MACARTHUR BLVD	
DATE OF SURVEY:10/23/2023		BY:RUSSO/PAYAN & CREW	SHEET NO. 13 of 13	
MAPPING		BY:R. CASANAVE		
OFFICE CHECK		BY:MICHAEL KUBISTY, PLS		
FIELD CHECK		BY:BELTRAN & RODRIGUEZ		
SCALE: 1" = 100'		W.O. #EF21268	FILE #2324PW-OP0003	
			FILE: SAN DIEGO CREEK HYDRAULIC TOPO.DWG	
MARK	DATE	ITEM	REVISIONS	