



OC PUBLIC WORKS DEPARTMENT

SHANE SILSBY, DIRECTOR

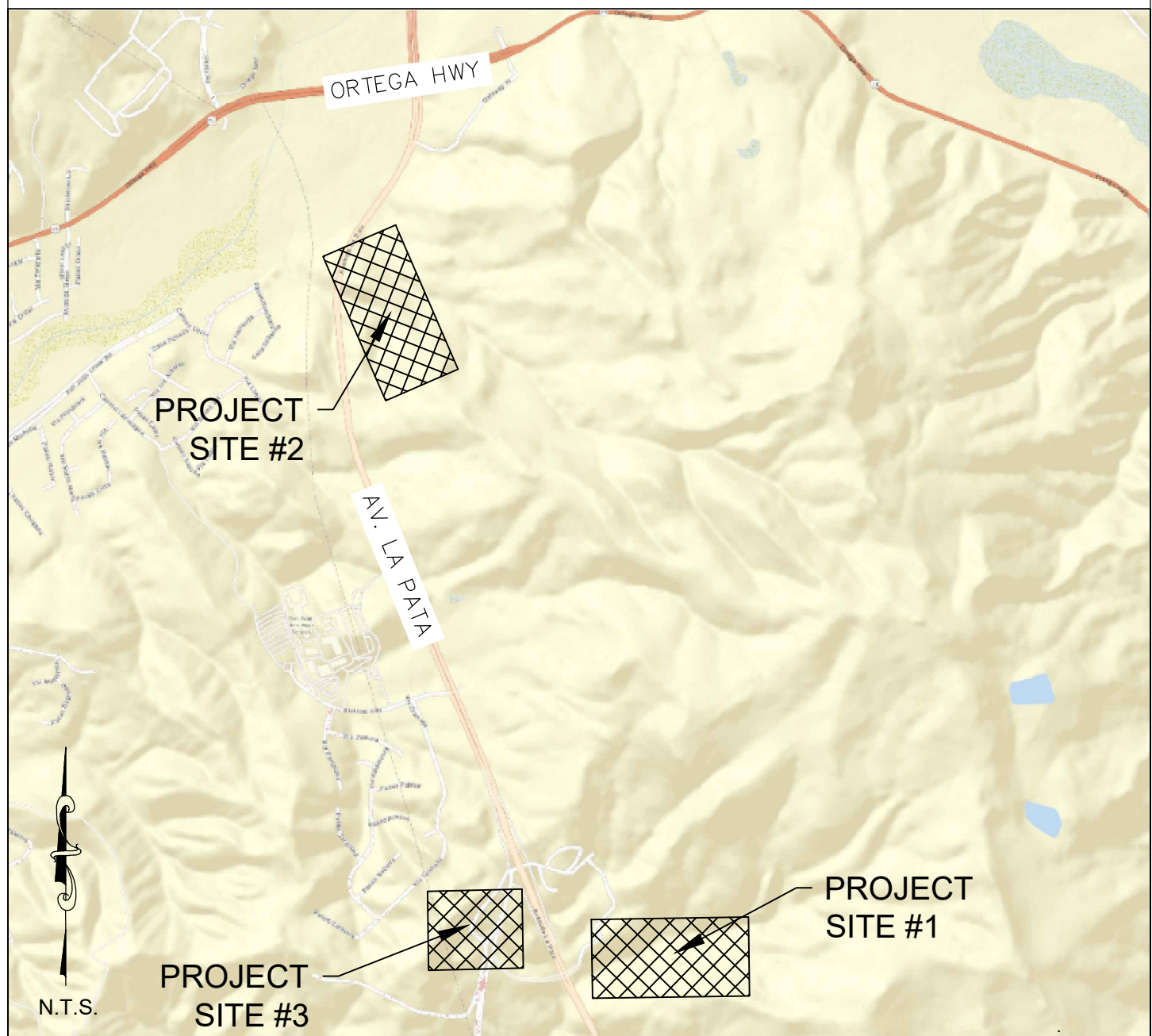
KEVIN HILLS, COUNTY SURVEYOR

LA PATA V-DITCH TOPOGRAPHIC MAP

LOCATION: EAST OF AVENIDA LA PATA



LOCATION MAP



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 SURVEYOR'S ACT; THIS 1ST DAY OF AUGUST, 2019.

Elliott Medina
ELLIOTT MEDINA PLS SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 1ST DAY OF AUGUST, 2019.

Wade Weaver
WADE WEAVER PLS DEPUTY COUNTY SURVEYOR



U.S. Survey
Foot

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

FD CGPS #SBCC
N 2147750.81'
E 6131652.60'
THIS IS AS CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN), FROM WHICH DATA CAN BE DOWNLOADED HERE:
HTTP://SOPACCSRC.UCSO.EDU/

FD CGPS#WHYT
N 2191881.31'
E 6137735.66'
THIS IS AS CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN), FROM WHICH DATA CAN BE DOWNLOADED HERE:
HTTP://SOPACCSRC.UCSO.EDU/

IDENTICAL POINT



TOPOGRAPHIC MAPPING PROJECT

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2007.00) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS "SBCC" AND "WHYT", BEING NORTH 07°50'54" EAST AS DERIVED FROM THE COORDINATES ESTABLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATASHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NORTH AMERICAN DATUM (2007.00 EPOCH O.C.S. G.P.S. ADJUSTMENT).

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. MULTIPLY A GRID DISTANCE BY 1.000065994 TO OBTAIN GROUND DISTANCE.

ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. LP-12-81 ELEV. = 524.74' YEAR LEVELED: 1991 NGVD 1929 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: DESCRIBED BY OCS 2014- FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "LP-12-81", SET IN CONCRETE POST, FLUSH WITH GROUND. BENCHMARK IS LOCATED IN CENTER OF TWO WOOD POLE TOWER JUST WEST AND ACROSS THE DIRT ROAD FROM A LARGE METAL TRANSMISSION TOWER.

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE TOPOGRAPHY DATA FOR THE DAMAGED PORTION OF CONCRETE DITCHES EAST OF AVENIDA LA PATA IN ORDER TO OBTAIN ELEVATIONS FOR THE PREPARATION OF PLANS TO REPAIR THE ERODED HILLSIDE. THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES.

SHEET INDEX

SHEET NO.	DESCRIPTION
SHEET #1	TITLE SHEET
SHEET #2-6	TOPOGRAPHIC MAP

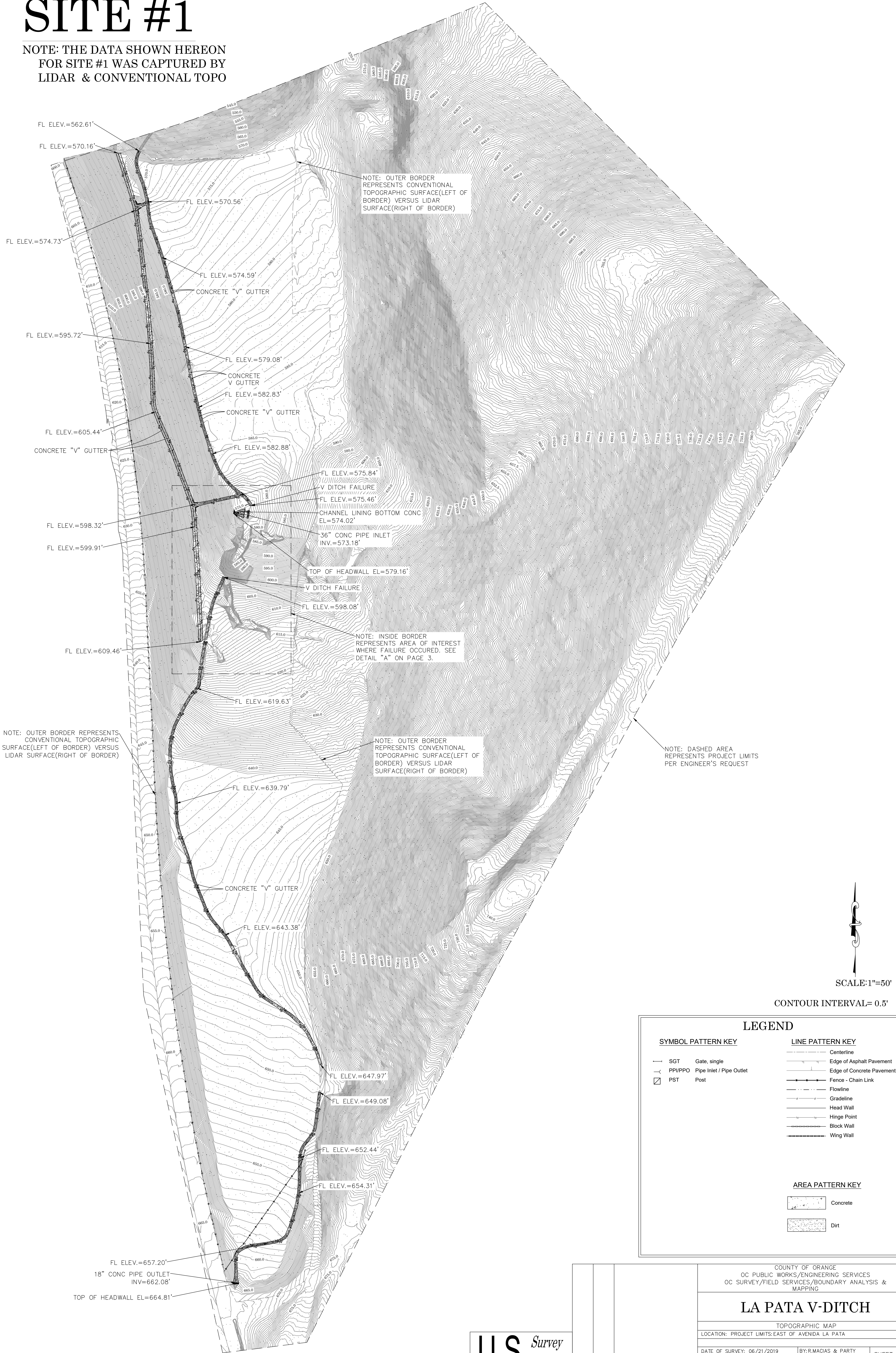
			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			LA PATA V-DITCH TOPOGRAPHIC MAP				
			TITLE SHEET				
			PROJECT LIMITS: EAST OF AVENIDA LA PATA				
			DATE OF SURVEY: 06-21-2019		BY: R MACIAS & PARTY		SHEET NO. 1 of 7
			TOPOGRAPHIC MAPPING		BY: KARIM AHMED		
			OFFICE CHECK		BY: ELLIOTT MEDINA, PLS.		
			FIELD CHECK		BY: ROY MACIAS, PLS.		
MARK	DATE	ITEM		SCALE: N.T.S.		FILE NO: ER19500	
REVISIONS		FILE: LAPATA_VDITCH_TOPO_2019.DWG					

SHEET NO.
1
of
7

N.T.S.

SITE #1

NOTE: THE DATA SHOWN HEREON
FOR SITE #1 WAS CAPTURED BY
LIDAR & CONVENTIONAL TOPO



SITE #1 DETAIL A: V-DITCH FAILURE



SCALE:1"=8'

CONTOUR INTERVAL= 0.5'

LEGEND

SYMBOL PATTERN KEY

- SGT Gate, single
- PPI/PPO Pipe Inlet / Pipe Outlet
- PST Post

LINE PATTERN KEY

- Centerline
- Edge of Asphalt Pavement
- Edge of Concrete Pavement
- Fence - Chain Link
- Flowline
- Gradeline
- Head Wall
- Hinge Point
- Block Wall
- Wing Wall

AREA PATTERN KEY

- Concrete
- Dirt

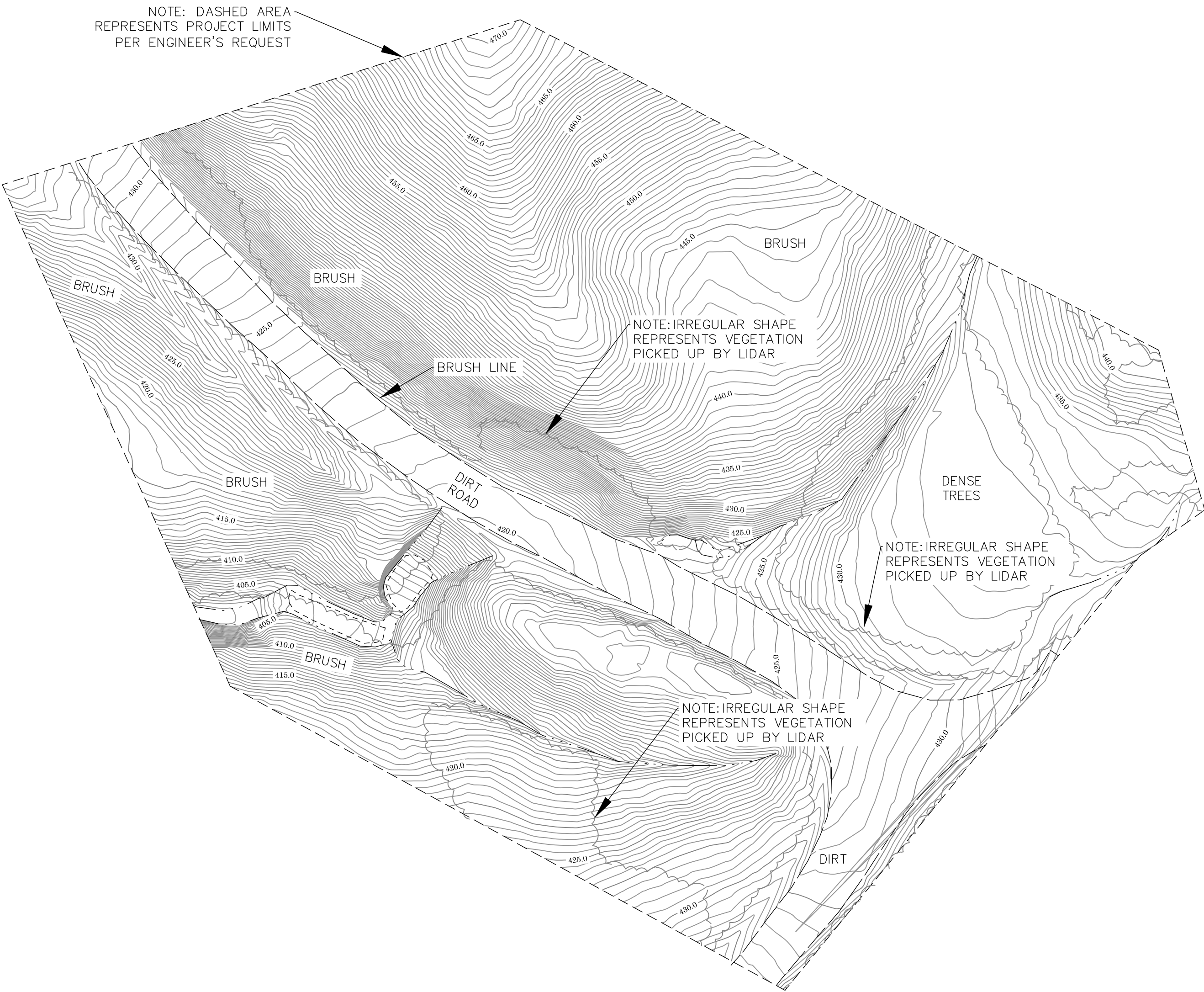
U.S. Survey
Foot

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

COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
LA PATA V-DITCH		
TOPOGRAPHIC MAP		
LOCATION: PROJECT LIMITS: EAST OF AVENIDA LA PATA		
DATE OF SURVEY: 06/21/2019	BY: R. MACIAS & PARTY	SHEET NO. 3 of 7
TOPOGRAPHIC MAPPING	BY: K. AHMED	
OFFICE CHECK	BY: E. MEDINA PLS	
FIELD CHECK	BY: R. MACIAS PLS	
SCALE: 1" = 50'	W.O. #ER19500	
FILE: LAPATA_VDITCH_TOPO_2019.DWG		
MARK	DATE	ITEM
REVISIONS		

SITE #3

NOTE: THE DATA SHOWN HEREON FOR SITE #3 WAS CAPTURED BY LIDAR. NO FIELD SURVEY WAS PERFORMED.



SCALE: 1"=20'
CONTOUR INTERVAL= 0.5'

LEGEND

SYMBOL PATTERN KEY

SGT

Gate, single

PPI/PPO

Pipe Inlet / Pipe Outlet

PST

Post

LINE PATTERN KEY

Centerline

Edge of Asphalt Pavement

Edge of Concrete Pavement

Fence - Chain Link

Flowline

Gradeline

Head Wall

Hinge Point

Block Wall

Wing Wall

AREA PATTERN KEY

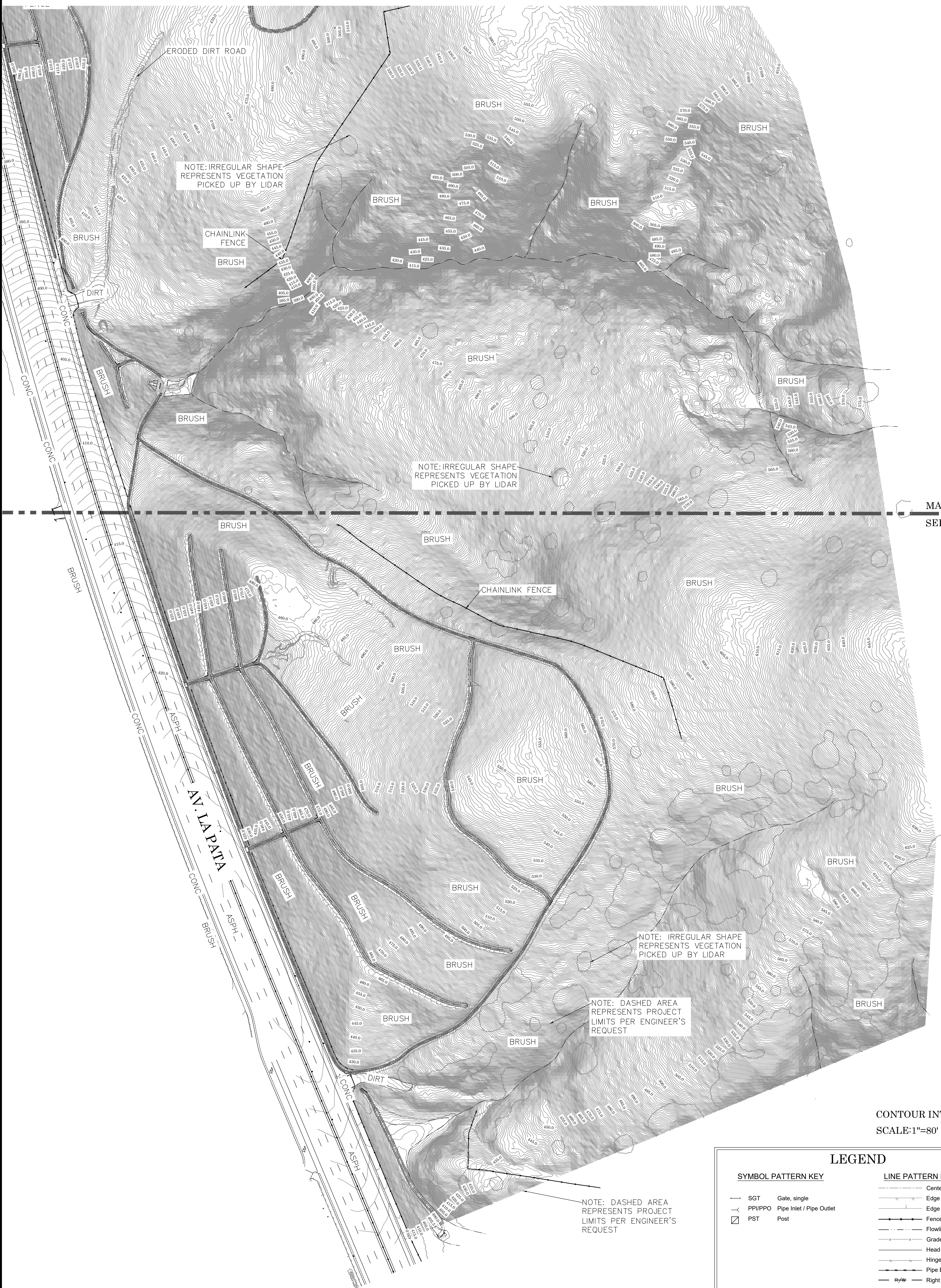
Concrete

Dirt

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		
			LA PATA V-DITCH		
			TOPOGRAPHIC MAP		
			LOCATION: LA PATA, CITY OF SAN CLEMENTE, CA		
			DATE OF SURVEY: 06/21/2019	BY: R. MACIAS & PARTY	SHEET NO. 4 of 7
			TOPOGRAPHIC MAPPING	BY: K. AHMED	
			OFFICE CHECK	BY: E. MEDINA, PLS.	
			FIELD CHECK	BY: R. MACIAS, PLS.	
			SCALE: 1" = 80'		W.O. #ER19500
FILE: LAPATA_VDITCH_TOPO_2019.DWG					
MARK	DATE	ITEM	REVISIONS		



CONTOUR INTERVAL= 0.5'
SCALE:1"=80'

SITE #2

NOTE: THE DATA SHOWN HEREON FOR
SITE #2 WAS CAPTURED BY LIDAR. NO
FIELD SURVEY WAS PERFORMED.

SYMBOL PATTERN KEY

— SGT	Gate, single
— PPI/PPO	Pipe Inlet / Pipe Outlet
□ PST	Post

LINE PATTERN KEY

—	Centerline
—	Edge of Asphalt Pavement
—	Edge of Concrete Pavement
—	Fence - Chain Link
—	Flowline
—	Gradeline
—	Head Wall
—	Hinge Point
—	Pipe Exposed
—	Right of Way
—	Block Wall
—	Wing Wall
—	Wall as Noted

AREA PATTERN KEY

[Pattern]	Concrete
[Pattern]	Dirt

NOTE: THE DATA SHOWN HEREON FOR
SITE #2 WAS CAPTURED BY LIDAR. NO
FIELD SURVEY WAS PERFORMED.

MATCHLINE SEE SHEET 7

NOTE: IRREGULAR SHAPE
REPRESENTS VEGETATION
PICKED UP BY LIDAR

LINE PATTERN KEY

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

CONTOUR INTERVAL= 0.5'
SCALE:1"=80'

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			LA PATA V-DITCH				
			TOPOGRAPHIC MAP				
			LOCATION: LA PATA, CITY OF SAN CLEMENTE, CA				
MARK	DATE	ITEM	DATE OF SURVEY: 06/21/2019		BY: R. MACIAS & PARTY		SHEET NO. 6 of 7
			TOPOGRAPHIC MAPPING		BY: K. AHMED		
OFFICE CHECK		BY: E. MEDINA, PLS.					
FIELD CHECK		BY: R. MACIAS, PLS.					
		SCALE: 1" = 80' W.O. #ER19500					
		FILE: I APATA V-DITCH TOPO 2019.DWG					

NOTE: THE DATA SHOWN HEREON FOR
AREA 2 WAS CAPTURED BY LIDAR. NO
FIELD SURVEY WAS PERFORMED.

