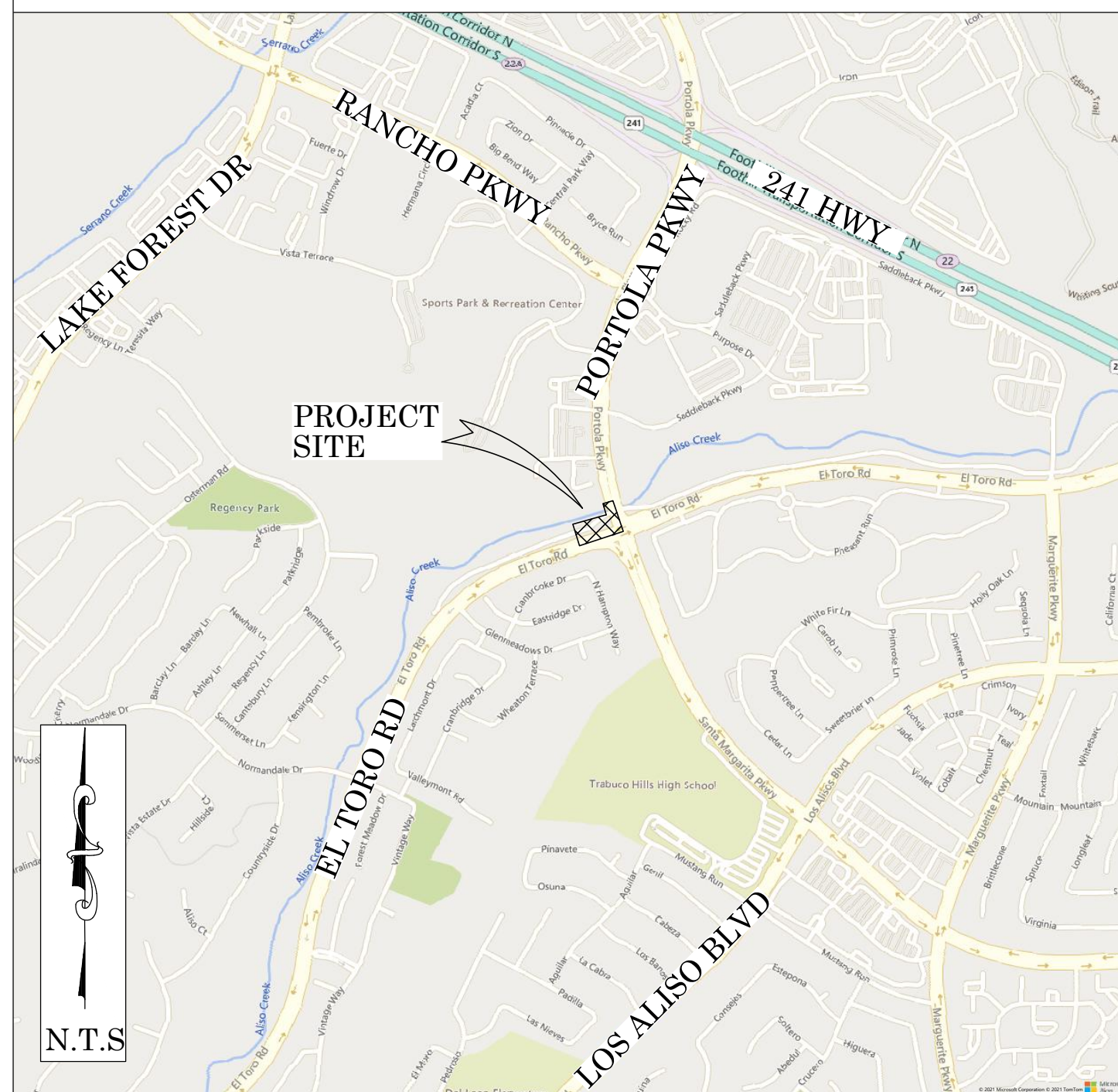




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
ALISO CREEK BIKEWAY
COUNTY EASEMENT ACQUISITION



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 28 DAY OF JANUARY, 2022.

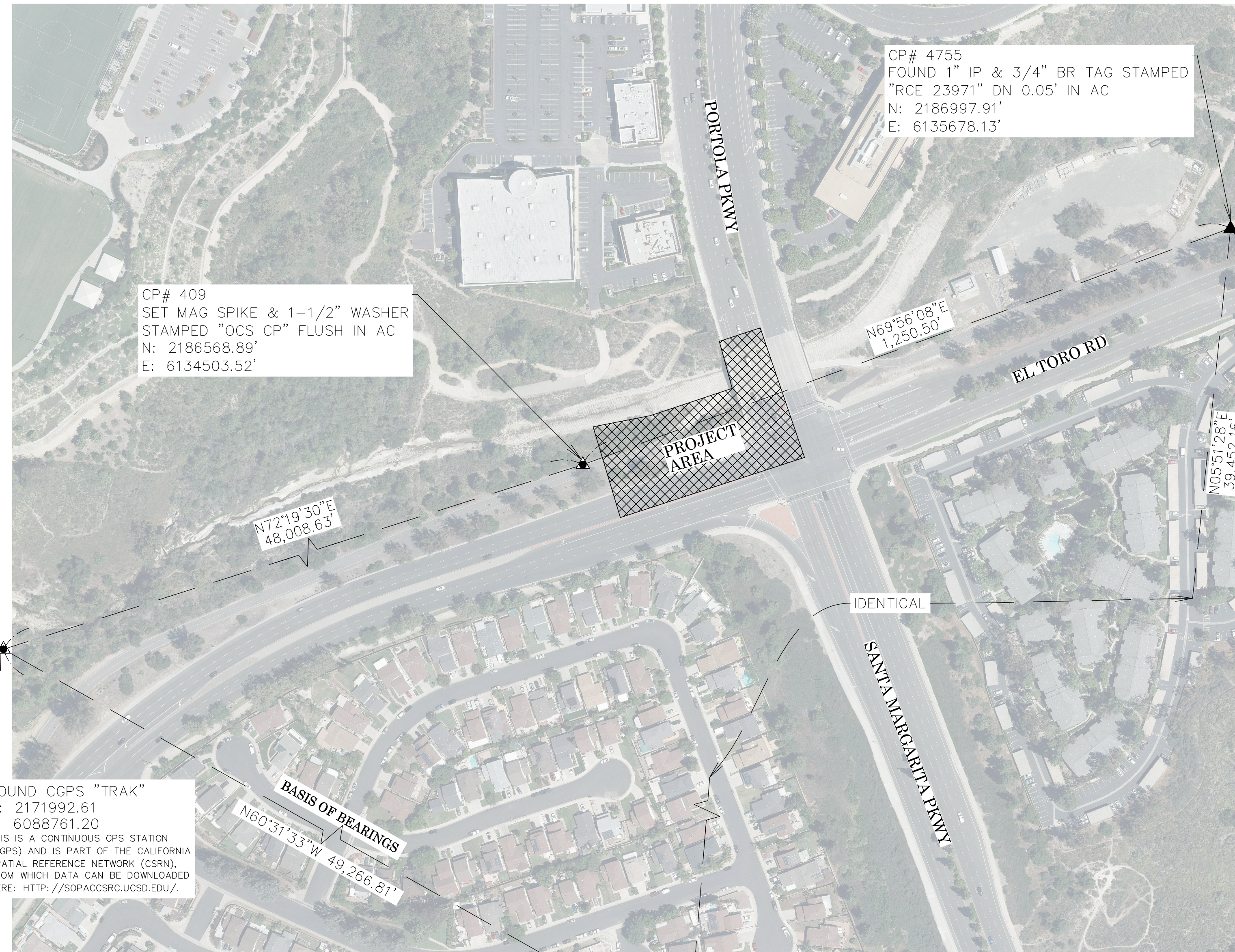
MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 28 DAY OF JANUARY, 2022.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



TOPOGRAPHIC MAPPING PROJECT

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 (SBCC) AND (TRAK) BEING NORTH 60°31'33" 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 1.00005967.
THIS COMBINATION FACTOR WAS HELD AT: CP# 406
N: 2186655.04' E: 6134786.29' EL: 737.66'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. 3JJ-28-04 ELEV. = 780.685' YEAR LEVELED: 2004
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)
DESCRIPTION: FOUND 3-3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3JJ-28-04", SET IN THE SOUTHERN CORNER OF A 4 FT. BY 15FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHERLY PORTION OF THE INTERSECTION OF SANTA MARGARITA PARKWAY AND LOS ALISOS BOULEVARD, 49.4 FT. NORTHEASTERLY OF THE CENTERLINE OF SANTA MARGARITA AND 231 FT. NORTHWESTERLY OF THE CENTERLINE OF LOS ALISOS. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

NOTES

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	1	TITLE SHEET
SHEET 2-7	2-7	BOUNDARY SHEET
SHEETS 8	8	TOPOGRAPHIC MAP

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP FOR THIS PORTION OF THE ALISO CREEK BIKEWAY IN ORDER FOR OCPW/ RIGHT OF WAY TO COMPOSE A LEGAL DESCRIPTION FOR THE EXTENSION OF EASEMENTS FOR BIKEWAY PURPOSES.

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION		
			TITLE SHEET		
			PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD INTERSECTION TO APPROXIMATELY 160' WLY ALONG EL TORO RD ENCOMPASSING THE PROPOSED BIKEWAY.		
			DATE OF SURVEY: 11/18/2021	BY: T. LOFGREEN & PARTY	SHEET NO. 1 of 8
			MAPPING	BY: J. PEDRETTI	
			OFFICE CHECK	BY: M. KUBISTY, PLS.	
			FIELD CHECK	BY: T. LOFGREEN & PARTY	
MARK	DATE	ITEM	SCALE: N.T.S.	W.O. #EC41293	FILE #2122PW-RED001
REVISIONS			FILE: ALISO CREEK BIKEWAY_TOPO_2021.DWG		

MONUMENT NOTES

- 1

FOUND LEAD, TACK AND 3/4 INCH TAG STAMPED "LS 5411" PER R1, FLUSH IN CONCRETE. ACCEPTED AS TIE POINT FOR THE CENTERLINE OF PORTOLA PARKWAY
- 2

FOUND MAG NAIL WITH 1– 1/2 INCH WASHER STAMPED "LS 5411" PER R1, FLUSH IN A.C. ACCEPTED AS TIE POINT FOR THE CENTERLINE OF PORTOLA PARKWAY
- 3

FOUND MAG NAIL WITH 1– 1/2 INCH WASHER STAMPED "LS 5411" PER R2, FLUSH IN A.C. ACCEPTED AS TIE POINT FOR THE CENTERLINE OF PORTOLA PARKWAY
- 4

FOUND HOLLOW 2 INCH IRON PIPE IN WELL MONUMENT PER R2, DOWN 1.55 FEET IN A.C. S66°49'44"E 0.10 FEET FROM THE CENTERLINE B.C. OF PORTOLA PARKWAY. SEE DETAIL "A" ON SHEET 4
- 5

FOUND EMPTY WELL MONUMENT. PER R6, SHOT CENTER OF CONCRETE HOLE. ACCEPTED AS THE CENTERLINE B.C. OF PORTOLA PARKWAY. NO RECORD TIES FOUND
- 6

FOUND SQUARE HEAD SPIKE WITH 1–1/2 INCH WASHER STAMPED "LS 8639", PER R3, DOWN 0.05 FEET IN A.C. ACCEPTED AS CENTERLINE INTERSECTION OF PORTOLA PARKWAY AND RANCHO PARKWAY
- 7

FOUND HOLLOW 2 INCH IRON PIPE IN WELL MONUMENT NO REFERENCE, DOWN 1.65 FEET IN A.C. ACCEPTED AS A POINT ON CENTERLINE OF PORTOLA PARKWAY, S24°01'14"W 2.27 FEET FROM CENTERLINE INTERSECTION OF PORTOLA PARKWAY AND RANCHO PARKWAY, SEE DETAIL "B" ON SHEET 4
- 12

FOUND GEAR SPIKE AND 1–1/2 INCH WASHER STAMPED "LS 5411" PER R5, FLUSH IN A.C. S89°15'20"E 0.13 FEET FROM CENTERLINE INTERSECTION OF PORTOLA PARKWAY AND SADDLEBACK PARKWAY, SEE DETAIL "C" ON SHEET 4
- 13

FOUND 2 INCH IRON PIPE WITH TACK AND 3/4 INCH TAG STAMPED "PLS 5557" PER R6, DOWN 0.2 FEET IN DIRT. ACCEPTED AS AN ANGLE POINT IN S'LY LINE OF LOT 2 OF R6
- 14

FOUND 1 INCH IRON PIPE WITH TACK AND TAG STAMPED "PLS 5557" PER R6, DOWN 0.4 FEET IN DIRT. ACCEPTED AS SOUTHWEST OF CORNER LOT 2 OF R6
- 15

FOUND LEAD, TACK AND 3/4 INCH TAG STAMPED "LS 5557" PER R6, FLUSH IN CONCRETE. ACCEPTED AS AN ANGLE POINT IN S'LY LINE OF LOT 1 OF R6
- 16

FOUND 2 INCH BROKEN ALUMINUM CAP STAMPED "O.C.B.M. J J LS3" IN LIEU OF 2 INCH IRON PIPE WITH 2 INCH BRASS CAP STAMPED "O.C.F.C.D. R.W. MON. LS 3522 BM J01–V–55" PER R6, DOWN 1 FOOT IN DIRT. ACCEPTED AS ANGLE POINT IN S'LY LINE OF LOT 1 OF R6
- 17

FOUND EMPTY 2 INCH IRON PIPE IN LIEU OF 2 INCH IRON PIPE STAMPED "LS 5557" PER R6, DOWN 0.3 FEET IN DIRT. ACCEPTED AS AN ANGLE POINT IN S'LY LINE OF LOT 1 OF R6
- 18

FOUND 2–1/4 INCH ALUMINUM CAP STAMPED "C.F.C.D R/W MON B.M JO–V–47 L.S 3522" PER R7, DOWN 1.5 FEET IN DIRT. ACCEPTED AS AN ANGLE POINT IN S'LY LINE OF PARCEL 2 OF R8
- 19

FOUND 1 INCH IRON PIPE STAMPED "RCE 23971", NO REFERENCE, IN LIEU OF SPIKE AND WASHER PER R9, DOWN 0.05 FEET IN A.C. ACCEPTED AS P.I. 10 ON CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9
- 20

FOUND BROKEN GEAR SPIKE, DOWN 0.05 FEET IN A.C., IN LIEU OF GEAR SPIKE AND WASHER STAMPED "LS 5411" PER R10. ACCEPTED AS A POINT ON THE CENTERLINE OF EL TORO ROAD (S.M. 77–3) R14
- 21

FOUND CONCRETE NAIL AND TIN IN LIEU OF SPIKE AND WASHER PER R11, FLUSH IN A.C., N54°23'55"W 0.12 FEET FROM THE CENTERLINE B.C. OF EL TORO ROAD (S.M. 77–3) R14
- 22

FOUND LEAD, TACK AND 3/4 INCH TAG STAMPED "OCS TIE" FLUSH IN CONCRETE, PER R12, ACCEPTED AS THE CENTERLINE P.I. TIE FOR EL TORO ROAD (S.M. 77–3) R14
- 23

FOUND LEAD WITHOUT TACK AND TAG IN LIEU OF LEAD, TACK AND 3/4 INCH TAG STAMPED "OCS TIE" PER R12, FLUSH IN CONCRETE, ACCEPTED AS THE CENTERLINE P.I. TIE FOR EL TORO ROAD (S.M. 77–3) R14
- 24

FOUND 2 INCH IRON PIPE WITH O.C.S. TAG STAMPED "50 LT", UP 0.25 FEET IN DIRT, NO REFERENCE
- 25

FOUND 2–1/2 INCH BRASS DISK STAMPED "ORANGE COUNTY– SURVEYOR EC 9 RESET 1992" PER R11, DOWN 0.05 FEET IN A.C. ACCEPTED AS A POINT ON TANGENT OF EL TORO ROAD, N72°00'52"E 0.09 FEET FROM THE CENTERLINE B.C. OF EL TORO ROAD (S.M. 77–3) R14
- 26

FOUND GEAR SPIKE WITH 1–1/2 INCH WASHER STAMPED "LS 5411" PER R13, FLUSH IN A.C. ACCEPTED AS POINT ON THE CENTERLINE OF EL TORO ROAD (S.M. 77–3) R14 ()

EASEMENT NOTES

- 1

STREET RIGHT–OF–WAY DEDICATION PER EXHIBIT 'B' 2021_0224_18291, NOT RECORDED
- 2

PERPETUAL EASEMENT GRANTED TO COUNTY OF ORANGE FOR STREET AND HIGHWAY PURPOSES PER R19

LINE TABLE				LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE	LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N74°02'30"E	3.03'	3.01' R1	L20	N72°00'52"E	122.52'	122.49' R14
L2	N14°57'18"W	2.98'	–	L21	N20°46'40"W	66.70'	66.69' R6
L3	N74°15'16"E	2.95'	2.98' R1	L22	N07°50'16"E	133.59'	133.65' R11
L4	N55°22'06"W	120.20'	120.26' R11	L23	N67°19'38"W	92.85'	92.92' R11
L5	N43°11'05"W	179.21'	179.22' R11	L24	N72°30'09"E	20.12'	20.11' R6
L6	N67°19'40"W	140.78'	140.83' R11	L25	N62°38'21"E	23.02'	23.00' R6
L7	N30°50'51"E	109.77'	109.80' R13	L26	N88°33'17"W	80.10'	80.10' R19
L8	N30°56'40"E	81.60'	81.60' R13	L27	N14°58'06"W	64.34'	64.32' R19
L9	N38°52'12"E	93.23'	93.18' R11	L28	N88°33'17"W	74.15'	74.15' R19
L10	N59°03'35"W	67.65'	67.66' R11	L29	N65°38'06"E	34.03'	36.06' R11
L11	N68°17'04"E	86.13'	86.16' R11	L30	N21°17'52"W	92.91'	92.92' R17
L12	N80°15'25"W	107.12'	107.13' R11	L31	N39°39'47"W	74.00'	74.01' R1
L13	N26°25'35"E	127.89'	127.93' R11	L32	N78°25'53"E	91.99'	91.99' R1
L14	N22°44'46"E	79.81'	79.80' R11	L33	N80°30'47"W	66.19'	66.19' R1
L15	N89°44'01"W	66.87'	86.99' R11(TYP09)	L34	N36°56'58"W	66.94'	66.95' R1
L16	N55°19'45"W	110.17'	110.18' R11	L35	N21°17'52"W	152.92'	–
L17	N79°26'33"W	118.68'	118.70' R13	L36	N21°17'52"W	57.66'	57.66' R1
L18	N21°58'53"W	2.33'	2.35' R16	L37	N67°39'27"E	82.45'	82.50' C R9, R17
L19	N67°37'45"E	122.52'	122.49' R14				

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C1	4°23'07"	3199.80'	244.91'	4°23'31" R15	3200.00' R15	245.02' R15
C2	2°48'01"	3199.80'	156.39'	2°48°06" R15	3200.00' R15	156.47' R15
C3	1°35'06"	3199.80'	88.52'	1°35°07" R15	3200.00' R15	88.55' R15
C4	51°21'34"	2349.86'	2106.39'	51°21'58" R15	2350.00' R15	2106.79' R15
C5	6°32'45"	2349.86'	268.47'	6°32'51" R4	2350.00 R4	268.55' R4
C6	15°00'45"	2349.86'	615.71'	15°01'07" R6	2350.00' R6	615.99' R6
C7	6°30'34"	2349.86'	266.97'	6°30'16" R6	2350.00' R6	266.78' R6
C8	21°31'19"	2349.86'	882.67'	21°31'23" C R6	2350.00' R6	882.77' R6
C9	23°17'30"	2349.86'	955.26'	23°17'30" C R4	2350.00' R4	955.32' C R4
C10	2°09'45"	2349.86'	88.69'	2°09'28" R19	2350.00' R19	88.50' R19
C11	4°20'48"	2349.86'	178.27'	4°20'48" R19	2350.00' R19	178.28' R19
C12	3°41'56"	2272.86'	146.73'	3°41'57" R19	2350.00' R19	146.75' R19

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C13	0°33'23"	7939.52'	77.10'	–	7940.00' R19	–
C14	0°30'46"	7939.52'	71.06'	–	7940.00' R19	–
C15	1°04'09"	7939.52'	148.17'	1°04'09" R19	7940.00' R19	148.16' R19
C16	3°22'16"	2420.86'	142.44'	3°22'16" R19	2421.00' R19	142.44 R19
C17	46°33'35"	1599.90'	1300.11'	46°33'33" R9	1600.00' R9	1300.18' R9
C18	2°11'29"	3199.80'	122.38'	2°11'29" R16	3200.00' R16	122.39' R16
C19	2°10'29"	3255.80'	123.58'	2°10'31" R20	3256.00' R20	123.62' R20
C20	2°12'43"	3259.80'	125.85'	2°12'42" R20	3256.00' R20	125.84' R20
C21	2°11'38"	3199.80'	122.53'	2°11'39" R20	3200.00' R20	122.55' R20
C22	0°35'22"	3255.80'	33.50'	0°35'26" R20	3256.00' R20	33.56' R20
C23	1°35'07"	3255.80'	90.08'	1°35'05" R20	3256.00' R20	90.06' R20

RADIAL LINE TABLE	
TAG#	BEARING
[R1]	S20°10'37"E
[R2]	S20°11'46"E
[R3]	S20°11'51"E
[R4]	S20°47'09"E
[R5]	S20°47'09"E
[R6]	S22°22'15"E
[R7]	S17°59'08"E
[R8]	S75°43'54"W
[R9]	S74°41'03"W
[R10]	S21°52'15"E
[R11]	S21°18'52"E
[R12]	S20°48'06"E
[R13]	S75°11'05"W
[R14]	S71°18'47"W

ESTABLISHMENT NOTES

- 1

MONUMENT NOT SEARCHED FOR DUE TO TRAFFIC CONDITIONS. ESTABLISHED P.I. "A" OF THE CENTERLINE OF EL TORO ROAD (S.M. 77–3) R14 BY TIES PER R11, SAID POINT ALSO BEING A POINT ON THE E'LY LINE OF R16
- 2

ESTABLISHED THE FORWARD TANGENT OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTE 1 AND MONUMENT 20
- 3

ESTABLISHED THE BACK TANGENT OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTE 3 AND MONUMENT 23
- 4

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING RECORD RADIUS OF 3200.00 FEET PER (S.M. 77–3) R14 AND TANGENT TO LINE ESTABLISHMENTS 3 AND 3
- 5

SEARCHED, FOUND NOTHING, ESTABLISHED CENTERLINE B.C. OF EL TORO ROAD (S.M. 77–3) R14 AT THE W'LY TERMINUS OF CURVE ESTABLISHMENT 4
- 6

FOUND WELL MONUMENT PER R12, MONUMENT INACCESSIBLE DUE TO TRAFFIC CONDITIONS, POSITION ESTABLISHED BY TIES PER R12, S20°46'40"E 0.04' FROM CENTERLINE INTERSECTION OF EL TORO ROAD (S.M. 77–3) R14 AND PORTOLA PARKWAY, ACCEPTED AS POINT ON THE S'LY PROLONGATION OF LINE ESTABLISHMENT 3
- 7

ESTABLISHED THE CENTERLINE OF PORTOLA PARKWAY BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTES 7 AND 10
- 8

ESTABLISHED THE CENTERLINE E.C. OF PORTOLA PARKWAY BY TIES PER R1
- 9

ESTABLISHED THE CENTERLINE OF PORTOLA PARKWAY BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTE 9 AND MONUMENT 5
- 10

ESTABLISHED THE CENTERLINE OF PORTOLA PARKWAY BY HOLDING RECORD RADIUS OF 2350.00 FEET PER R15 AND TANGENT TO LINE ESTABLISHMENTS 9 AND 9
- 11

ESTABLISHED THE CENTERLINE B.C. OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING RECORD DISTANCE OF 595.98 FEET PER R11 FROM ESTABLISHMENT NOTE 6 W'LY ALONG LINE ESTABLISHMENT 9
- 12

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING RECORD CURVE INFORMATION PER R16 SW'LY FROM ESTABLISHMENT NOTE 10 AND TANGENT TO LINE ESTABLISHMENT 9
- 13

ESTABLISHED PORTION OF S'LY LINE OF PARCEL 2 OF R8 BY HOLDING A LINE BETWEEN MONUMENTS 13 AND 15
- 14

ESTABLISHED PORTION OF S'LY LINE OF PARCEL 2 OF R8 BY HOLDING A LINE BETWEEN MONUMENTS 15 AND 16
- 15

ESTABLISHED PORTION OF S'LY LINE OF PARCEL 2 OF R8 BY HOLDING A LINE BETWEEN MONUMENTS 16 AND 17
- 16

ESTABLISHED PORTION OF S'LY LINE OF PARCEL 2 OF R8 BY LEAST SQUARE ADJUSTMENT HOLDING RECORD COURSE INFORMATION PER R8 BETWEEN MONUMENTS 17 AND 18
- 17

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 76–1) R18 BY HOLDING A LINE TANGENT TO CURVE ESTABLISHMENT 17 FROM E.C. OF EL TORO ROAD (S.M. 76–1) R18
- 18

ESTABLISHED A COMMON POINT BETWEEN (S.M. 68–11A) R9 AND (S.M. 76–1) R18 (STA 451+71.00 B.C.) BY HOLDING RECORD DISTANCE OF 686.91 FEET PER R18 FROM B.C. OF EL TORO ROAD (S.M. 76–1) R18, SW'LY ALONG LINE ESTABLISHMENT 9
- 19

ESTABLISHED THE MOST WESTERLY CORNER OF LOT 10 OF R17, SAID CORNER ALSO BEING A POINT ON TANGENT LINE OF EL TORO ROAD (S.M. 68–11A) R9, BY INTERSECTION HOLDING RECORD DISTANCES OF 92.92 FEET NW'LY FROM ESTABLISHMENT NOTE 19 AND 914.25 FEET CALCULATED PER R17 SW'LY FROM MONUMENT 19
- 20

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9 SAID LINE ALSO BEING N'LY LINE OF LOT 10 PER 17 AND N'LY LINE OF 975/108 O.R. BY HOLDING A LINE BETWEEN MONUMENT 19 AND ESTABLISHMENT NOTE 19
- 21

ESTABLISHED B.C. OF THE CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9 BY HOLDING A RECORD DISTANCE OF 733.50 FEET PER (S.M. 68–11A) R9 FROM MONUMENT 19 SW'LY ALONG LINE ESTABLISHMENT 19
- 22

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9 BY HOLDING RECORD CURVE INFORMATION PER (S.M. 68–11A) R9 W'LY FROM ESTABLISHMENT NOTE 20 AND TANGENT TO LINE ESTABLISHMENT 19
- 23

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9 HOLDING A LINE TANGENT TO CURVE ESTABLISHMENT 22 AND 19
- 24

ESTABLISHED THE CENTERLINE OF EL TORO ROAD (S.M. 68–11A) R9 BY HOLDING RECORD RADIUS OF 1600.00 FEET PER (S.M. 68–11A) R9 AND TANGENT TO LINE ESTABLISHMENT 24 AND 19
- 25

ESTABLISHED THE SW'LY R/W LINE OF PORTOLA PARKWAY BY HOLDING RECORD CURVE INFORMATION PER R19 ON A CURVE CONCENTRIC WITH AND A RECORD DISTANCE OF 71.00 FEET PER R19 SW'LY OF CURVE ESTABLISHMENT 25
- 26

ESTABLISHED THE NE'LY R/W LINE OF PORTOLA PARKWAY BY HOLDING A CURVE CONCENTRIC WITH AND A RECORD DISTANCE OF 77.00 FEET PER R19 NE'LY OF CURVE ESTABLISHMENT 25
- 27

ESTABLISHED THE N'LY R/W LINE OF EL TORO ROAD (S.M. 68–11A) R9 BY HOLDING A LINE AND CURVE PARALLEL, CONCENTRIC WITH AND RECORD DISTANCE OF 60.00 FEET PER (S.M. 68–11A) R9 N'LY OF LINE ESTABLISHMENTS 27, 27, 27, 27 AND 27
- 28

ESTABLISHED THE INTERSECTION OF SE'LY LINE OF PARCEL 2 OF R19 AND N'LY R/W LINE OF EL TORO ROAD (S.M. 68–11A) R9 BY INTERSECTION HOLDING ESTABLISHMENTS 28 AND 28
- 29

ESTABLISHED THE TRUE POINT OF BEGINNING OF R19 BY HOLDING RECORD CURVE INFORMATION PER R19 FROM ESTABLISHMENT NOTE 29 N'LY ALONG LINE ESTABLISHMENT 29
- 30

ESTABLISHED THE N'LY LINE OF R19 BY HOLDING RECORD ANGLE OF 15°42'49" CALCULATED PER R19 FROM ESTABLISHMENT NOTE 30 CLOCKWISE FROM RADIAL LINE
- 31

ESTABLISHED THE NORTHEAST CORNER OF EASEMENT 2 R19 BY INTERSECTION HOLDING ESTABLISHMENTS 31 AND 31, FITS RECORD LENGTH OF 146.75 FEET PER R19 NE'LY FROM THE INTERSECTION OF LINE ESTABLISHMENTS 31 AND 31

- 32

ESTABLISHED THE SW'LY R/W LINE OF PORTOLA PARKWAY BY HOLDING RECORD ANGLE OF 89°39'09" PER R19 FROM E.C. OF CURVE ESTABLISHMENT FROM RADIAL LINE 32
- 33

ESTABLISHED THE NW CORNER OF EASEMENT 2 R19 BY INTERSECTION HOLDING ESTABLISHMENTS 33 AND 33
- 34

ESTABLISHED THE S'LY R/W OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING A LINE AND CURVE PARALLEL, CONCENTRIC WITH AND RECORD DISTANCE OF 60 FEET PER R16 S'LY OF LINE AND CURVE ESTABLISHMENTS 34, 34 AND 34
- 35

ESTABLISHED THE S'LY R/W OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING A LINE AND CURVE PARALLEL, CONCENTRIC WITH AND RECORD DISTANCE OF 56 FEET PER R17 S'LY OF LINE AND CURVE ESTABLISHMENTS 35 AND 35
- 36

ESTABLISHED THE CENTERLINE INTERSECTION OF PORTOLA PARKWAY AND SADDLEBACK PARKWAY BY HOLDING RECORD ANGLE OF 23°17'30" CALCULATED PER R4 S'LY FROM MONUMENT 36 ALONG CURVE ESTABLISHMENT 36
- 37

ESTABLISHED THE CENTERLINE INTERSECTION OF PORTOLA PARKWAY AND EL TORO ROAD (S.M. 77–3) R14 BY INTERSECTION HOLDING LINE AND CURVE ESTABLISHMENTS 37 AND 37
- 38

ESTABLISHED THE INTERSECTION OF EL TORO ROAD (S.M. 77–3) R14 AND N'LY PROLONGATION OF E'LY LINE OF R16 BY HOLDING RECORD CURVE INFORMATION PER R16 FROM ESTABLISHMENT NOTE 38 E'LY ALONG CURVE ESTABLISHMENT 38
- 39

MONUMENT INACCESSIBLE DUE TO TRAFFIC CONDITIONS, ESTABLISHED THE CENTERLINE B.C. OF PORTOLA PARKWAY BY TIES PER R11
- 40

ESTABLISHED THE N'LY R/W OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING A LINE AND CURVE PARALLEL, CONCENTRIC WITH AND RECORD DISTANCE OF 60 FEET PER R16 N'LY OF LINE AND CURVE ESTABLISHMENTS 40, 40 AND 40
- 41

ESTABLISHED THE CENTERLINE E.C. OF EL TORO ROAD (S.M. 77–3) R14 BY HOLDING RECORD RADIUS OF 3200.00 FEET PER (S.M. 77–3) R14 AND TANGENT TO LINE ESTABLISHMENTS 41 AND 41
- 42

ESTABLISHED THE E'LY LINE OF TRACT NO. 5278 R16 BY HOLDING A LINE BETWEEN ESTABLISHMENT NOTES 42 AND 42
- 43

ESTABLISHED THE E'LY LINE OF TRACT NO. 5278 R16 BY S'LY PROLONGATION OF LINE ESTABLISHMENT 43
- 44

ESTABLISHED INTERSECTION OF E'LY LINE OF TRACT NO. 5278 AND S'LY R/W OF EL TORO ROAD (S.M. 77–3) R14 BY INTERSECTION HOLDING ESTABLISHMENTS 44 AND 44

NOTES

ALL BOUNDARY LINES NOT SHOWN IN BOLD ARE FOR GRAPHICAL REPRESENTATION ONLY.

RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

REFERENCE DOCUMENTS IN THE REFERENCE LEGEND ARE LIVE HYPERLINKS TO SAID DOCUMENT.

MONUMENT SYMBOLS CONTAIN LIVE HYPERLINKS TO IMAGES, IF THEY EXIST, OF RESPECTIVE MONUMENT.

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 (SBCC) AND (TRAK) BEING NORTH 60°31'33" 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 DISTANCE MULTIPLY A GRID DISTANCE BY 1.00005967.

COMBINATION FACTOR WAS HELD AT MONUMENT 23 AS SHOWN ON SHEET 6 N:2186655.035', E:6134786.286', ELEVATION= 737.66'.

RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

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

BASIS OF STATIONING

THE BASIS FOR STATIONING IS STA 451+71.00 PER (S.M. 76–1) R18 AND (S.M. 68–11A) R9 HELD AT ESTABLISHMENT NOTE 31 AND INCREASING N'LY ALONG LINE ESTABLISHMENTS 31, 31 AND 31

REFERENCES

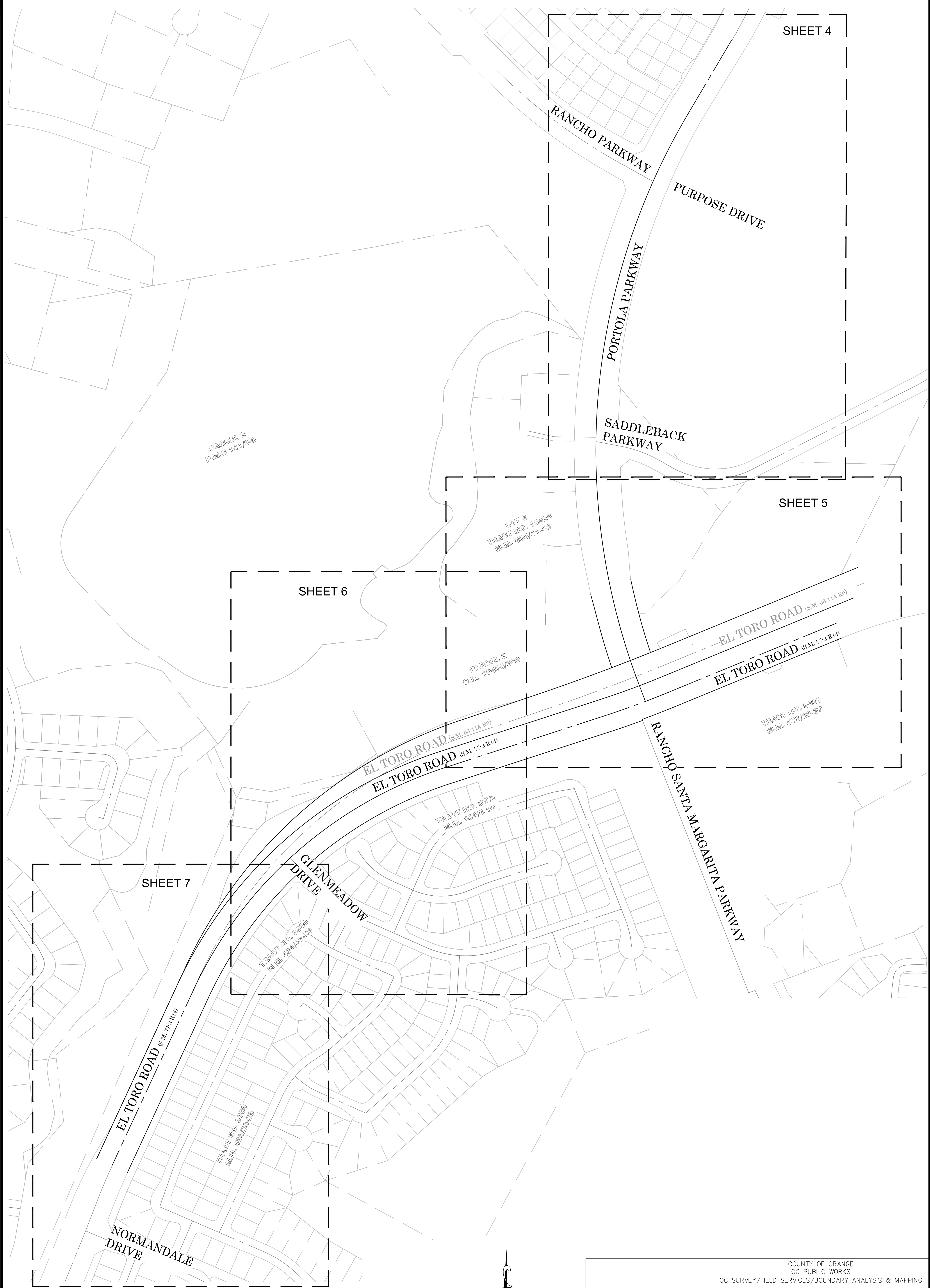
- R1 = CORNER RECORD, C.R. 2017–1222
- R2 = CORNER RECORD, C.R. 2017–1377
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- R4 = TRACT NO. 17707, M.M. 961/1–6
- R5 = CORNER RECORD, C.R. 2017–1378
- R6 = TRACT NO. 15925, M.M. 804/41–43
- R7 = RECORD OF SURVEY, R.S.B. 96/1–6
- R8 = PARCEL MAP, P.M.B. 141/3–5
- R9 = SURVEYOR MAP, EL TORO ROAD, S.M. 68–11A
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- R11 = O.C.S. ALIGNMENT NOTE A/6–7/2993–2996
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- R13 = CORNER RECORD, C.R. 2010–3531
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- R18 = SURVEYOR MAP, EL TORO ROAD ALIGNMENT, S.M. 76–1
- R19 = EASEMENT DEED, INSTRUMENT 19970569128 O.R.
- R20 = SURVEYOR MAP, PORTOLA PARKWAY ALIGNMENT, S.M. 83–2
- R21 = TRACT NO. 9850, M.M. 454/37–39

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				
			ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION				
			BOUNDARY MAP				
			PROJECT LIMITS: FROM THE NW'LY CORNER OF THE PORTOLA PKWY AND EL TORO RD THE PROPOSED BIKEWAY.				
			DATE OF SURVEY: 11/18/2021		BY: T. LOFGREEN & PARTY		SHEET NO. 2 of 8
			MAPPING		BY: F. DADASHI, PLS		
			OFFICE CHECK		BY: M. KUBISTY, PLS		
			FIELD CHECK		BY: T. LOFGREEN & PARTY		
MARK	DATE	ITEM	SCALE:		W.O. #EC41293		FILE # 2122PW-RE0001
REVISIONS			FILE: ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG				

BOUNDARY MAP INDEX



U.S. *Survey* Foot

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


0' 75' 150' 300' 450'
SCALE: 1" = 150'

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION			
			BOUNDARY MAP			
			PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD			
			DATE OF SURVEY: 11/18/2021		BY: T. LOFGREEN & PARTY	
			MAPPING		BY: F. DADASH, PLS	
			OFFICE CHECK		BY: M. KUBISTY, PLS	
			FIELD CHECK		BY: T. LOFGREEN & PARTY	
			SCALE: 1"=150'		W.O. #EC41293	
					FILE # 2122PW-RE0001	
REVISIONS			FILE: ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG			

				SHEET NO.	
				3	
				of	
				8	

NOTES

SEE SHEET 2 FOR MONUMENT NOTES, ESTABLISHMENT, EASEMENT NOTES
AND LINE AND CURVE TABLE

SEE SHEET 3 FOR BOUNDARY MAP INDEX.

REFERENCES

- R1 = CORNER RECORD, C.R. 2017-1222
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R21 = TRACT NO. 9850, M.M. 454/37-39

SEE DETAIL "A" HEREON

RANCHO PARKWAY

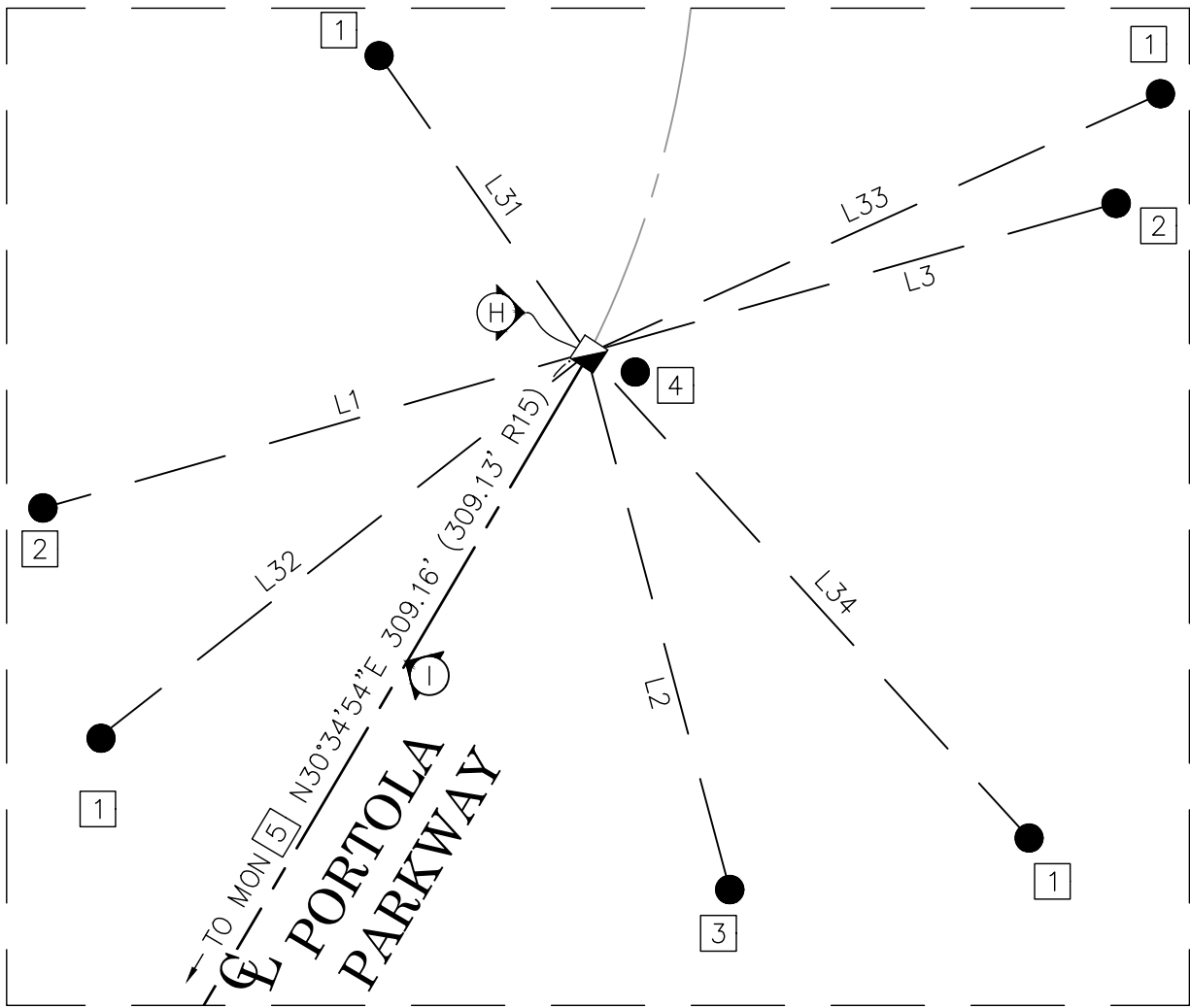
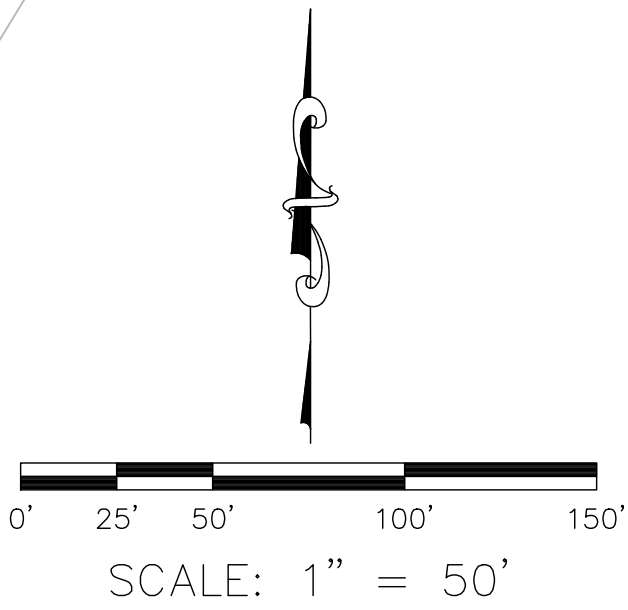
PORTOLA PARKWAY

SEE DETAIL "B" HEREON

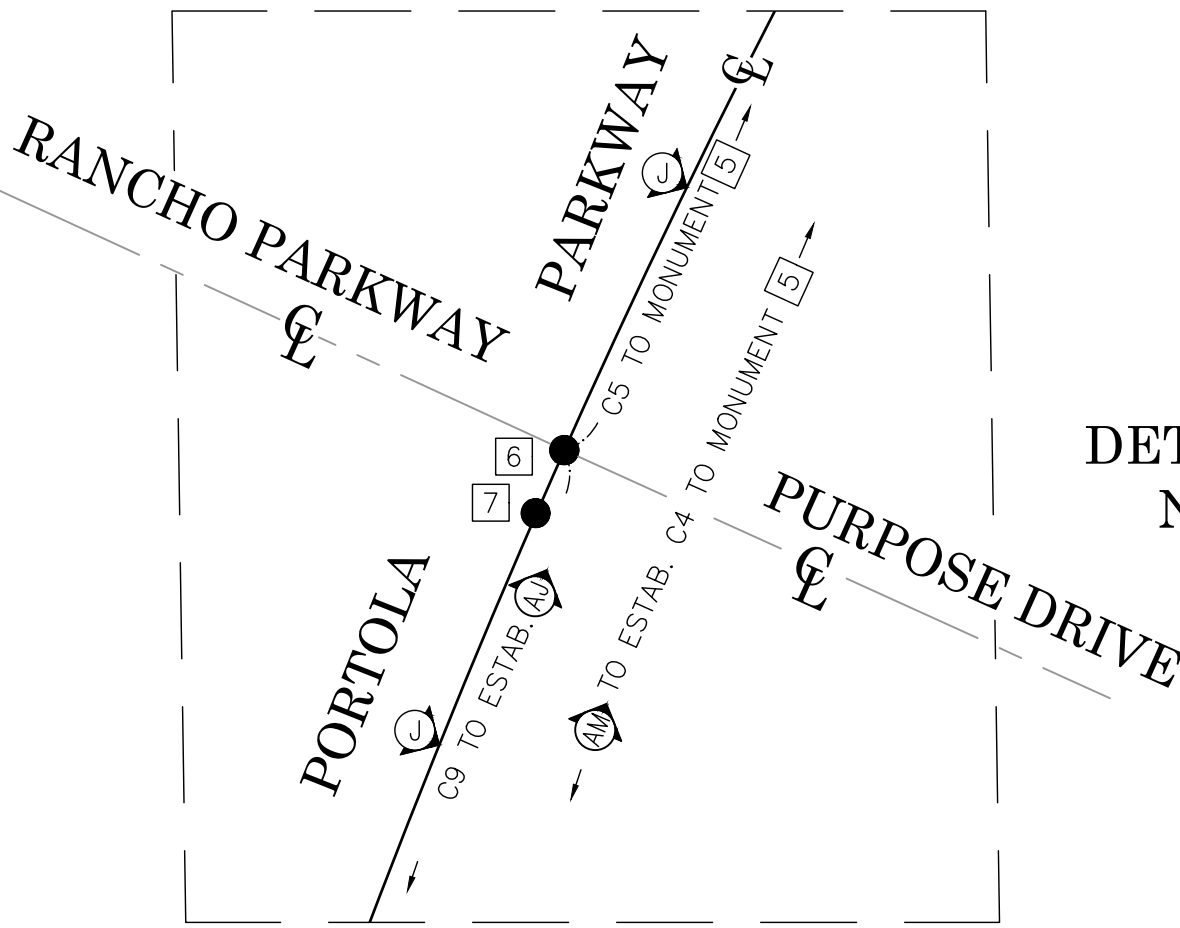
PURPOSE DRIVE

LEGEND

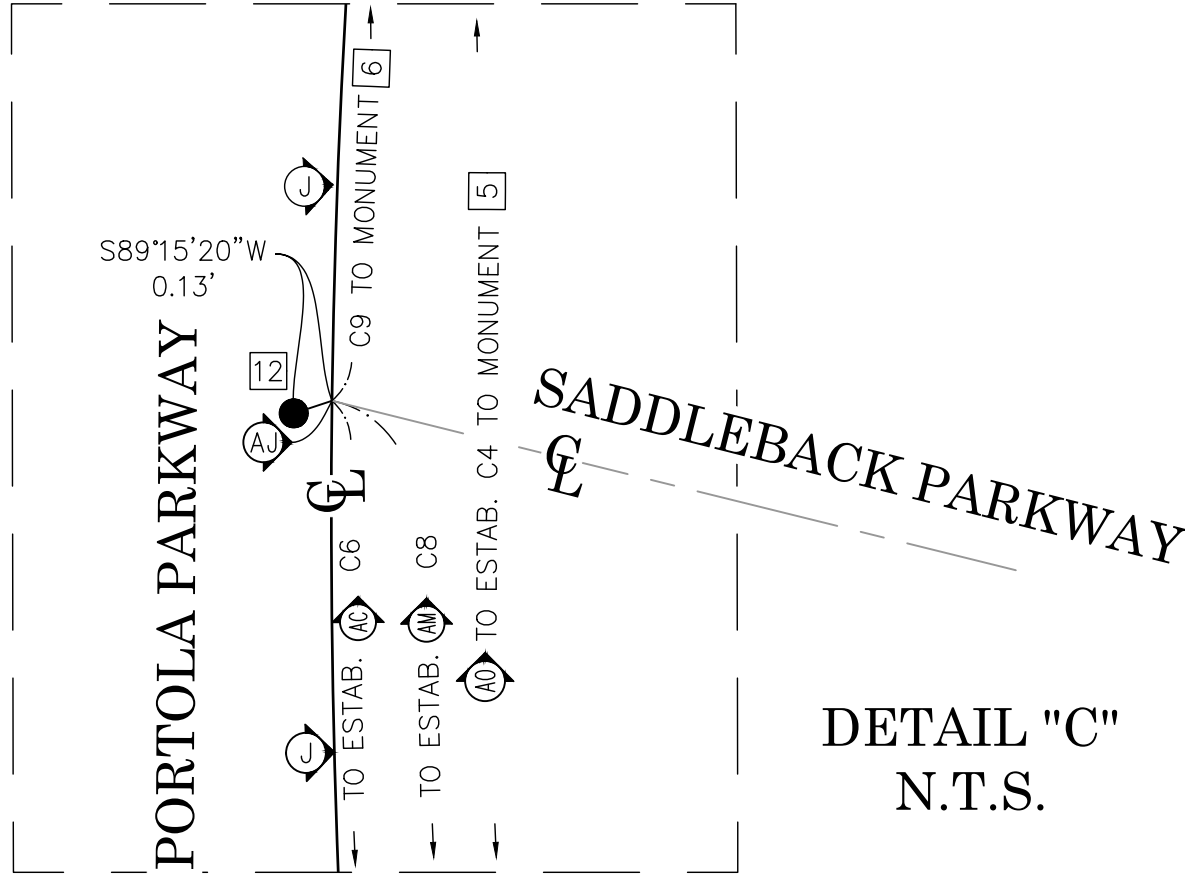
- FOUND MONUMENT AS NOTED
⊗ S.F.N.- SEARCHED, FOUND NOTHING
⊠ POSITION ESTABLISHED BY TIES (MONUMENT
INACCESSIBLE DUE TO TRAFFIC CONDITIONS)
▣ S.F.N. ESTABLISHED BY TIES
C CALC FROM RECORD MAP
EASEMENT AS NOTED



DETAIL "A"
N.T.S.



DETAIL "B"
N.T.S.



DETAIL "C"
N.T.S.

SEE SHEET 5

U.S. Survey
Foot

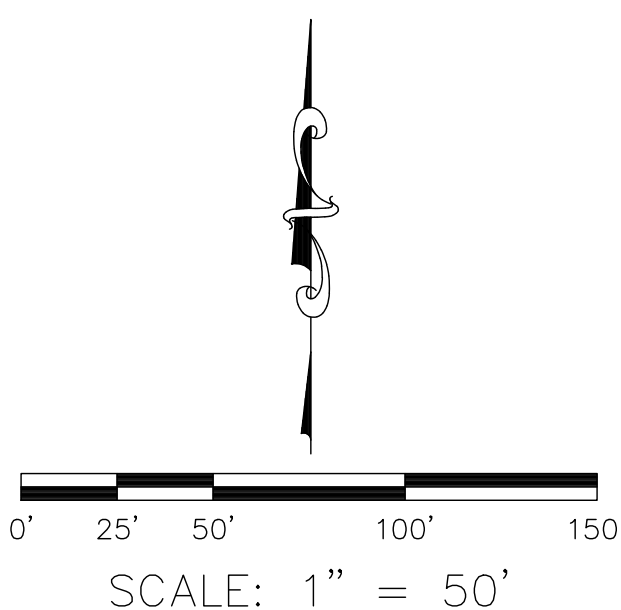
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION			
			BOUNDARY MAP			
			PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD THE PROPOSED BIKEWAY.			
DATE OF SURVEY: 11/18/2021		BY: T. LOFGREEN & PARTY		SHEET NO. 4 of 8		
MAPPING		BY: F. DADASH, PLS				
OFFICE CHECK		BY: M. KUBISTY, PLS				
FIELD CHECK		BY: T. LOFGREEN & PARTY				
MARK	DATE	ITEM	SCALE: 1"=50'		W.O. #EC41293	
			FILE: ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG			
REVISIONS			FILE # 2122PW-RE0001			

SEE SHEET 4

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R20 = SURVEYOR MAP, PORTOLA PARKWAY ALIGNMENT, S.M. 83-2
R21 = TRACT NO. 9850, M.M. 454/37-39



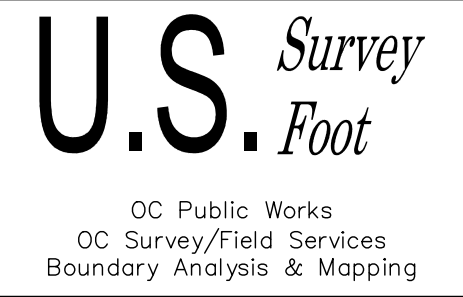
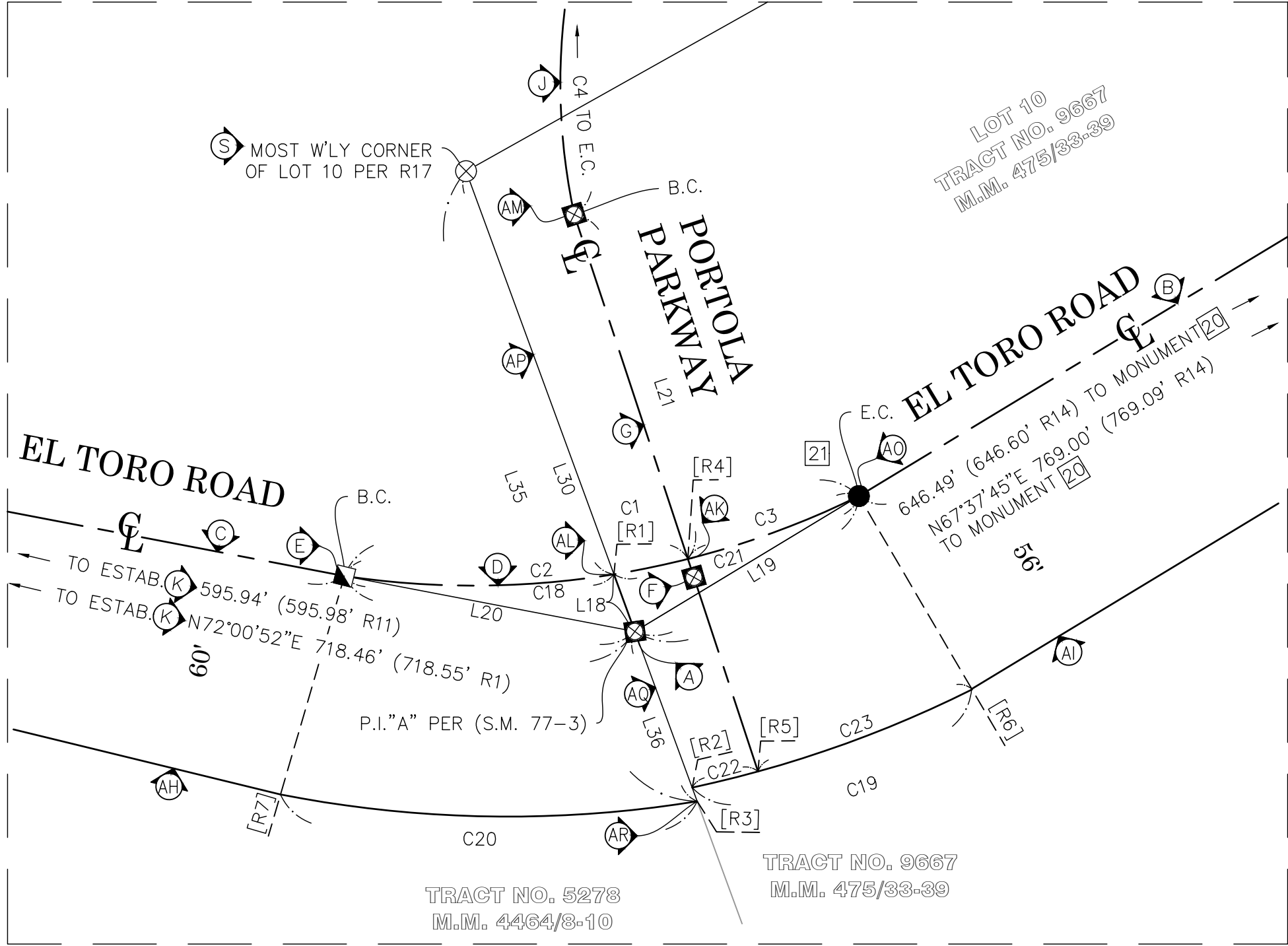
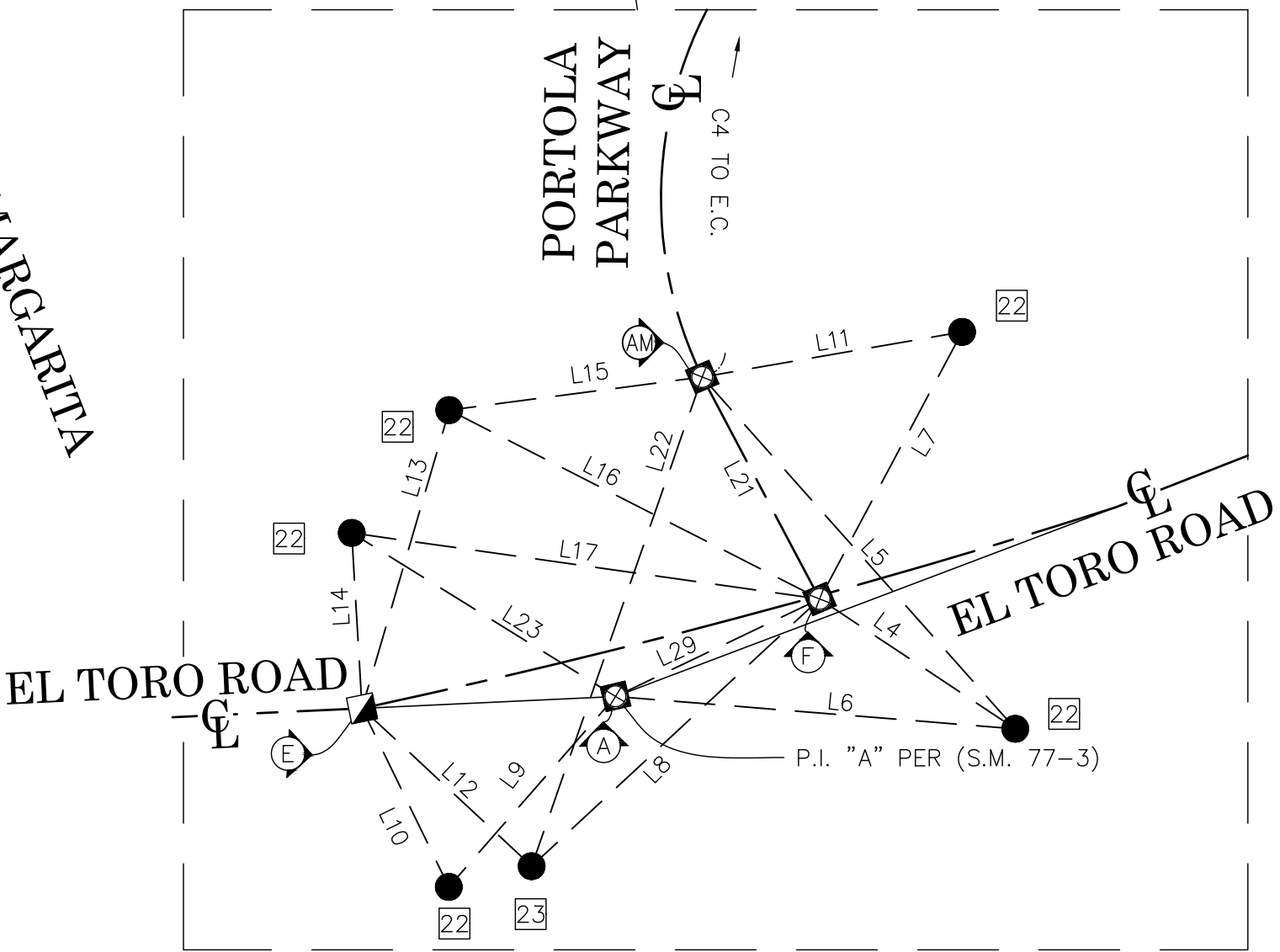
SEE SHEET 6

LEGEND

- FOUND MONUMENT AS NOTED
- ⊗ S.F.N.- SEARCHED, FOUND NOTHING
- ⊠ POSITION ESTABLISHED BY TIES (MONUMENT INACCESSIBLE DUE TO TRAFFIC CONDITIONS)
- S.F.N. ESTABLISHED BY TIES
- ▣ CALC FROM RECORD MAP
- Ⓢ EASEMENT AS NOTED

NOTES

- SEE SHEET 2 FOR MONUMENT NOTES, ESTABLISHMENT, EASEMENT NOTES, LINE AND CURVE TABLE
SEE SHEET 3 FOR BOUNDARY MAP INDEX.



COUNTY OF ORANGE
OC PUBLIC WORKS
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING

ALISO CREEK BIKEWAY
COUNTY EASEMENT ACQUISITION

BOUNDARY MAP

PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD.

THE PROPOSED BIKEWAY.

DATE OF SURVEY: 11/18/2021

MAPPING

OFFICE CHECK

FIELD CHECK

SCALE: 1"=50'

FILE: ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG

SHEET NO.

5

of

8

MARK

DATE

ITEM

REVISIONS

REFERENCES

- R1 = CORNER RECORD, C.R. 2017-1222
R2 = CORNER RECORD, C.R. 2017-1377
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R20 = SURVEYOR MAP, PORTOLA PARKWAY ALIGNMENT, S.M. 83-2
R21 = TRACT NO. 9850, M.M. 454/37-39

LOT 1
TRACT NO. 15925
M.M. 804/41-43

SEE SHEET 5

SEE SHEET 7

NOTES

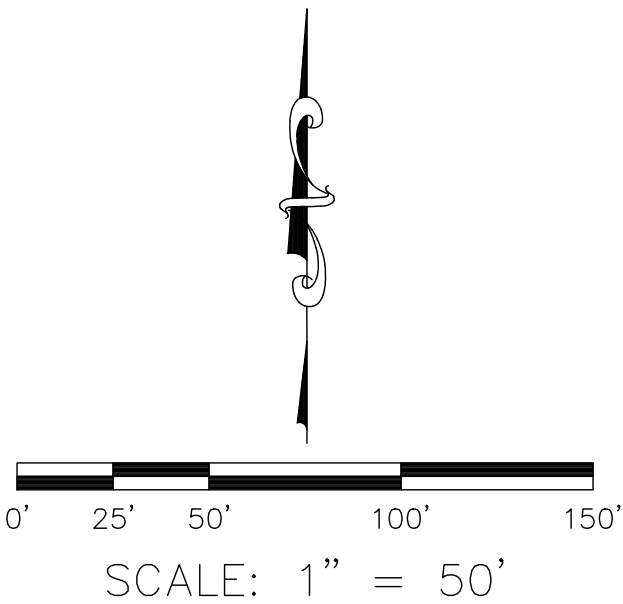
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SEE SHEET 3 FOR BOUNDARY MAP INDEX.

LEGEND

- FOUND MONUMENT AS NOTED
⊗ S.F.N.- SEARCHED, FOUND NOTHING
⊠ POSITION ESTABLISHED BY TIES (MONUMENT INACCESSIBLE DUE TO TRAFFIC CONDITIONS)
▣ S.F.N. ESTABLISHED BY TIES
C CALC FROM RECORD MAP
EASEMENT AS NOTED

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		
			ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION		
			BOUNDARY MAP		
			PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD THE PROPOSED BIKEWAY.		
			DATE OF SURVEY:11/18/2021	BY:T. LOFGREEN & PARTY	SHEET NO. 6 of 8
			MAPPING	BY:F. DADASH, PLS	
			OFFICE CHECK	BY:M. KUBISTY, PLS	
			FIELD CHECK	BY:T. LOFGREEN & PARTY	
MARK	DATE	ITEM	SCALE:1"=50'	W.O. #EC41293	FILE #2122PW-RE0001
		REVISIONS	FILE:ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG		

SEE SHEET 6

SEE SHEET 6

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R20 = SURVEYOR MAP, PORTOLA PARKWAY ALIGNMENT, S.M. 83-2
R21 = TRACT NO. 9850, M.M. 454/37-39

COMMON POINT FOR (S.M. 68-11A) AND (S.M. 76-1)
(STA 451+71.00 B.C. PER R9)

CENTERLINE OF EL TORO ROAD (S.M. 68-11A) R9
ESTABLISHED BY HOLDING RECORD DATA PER R9
BETWEEN ESTABLISHMENT NOTE 6 AND MONUMENT
NOTE 19. FITS TIE LINE PER R7 FROM ESTABLISHMENT
NOTE 6 TO MONUMENT NOTE 19.
SEE SHEET 5

THIS AREA PENDING FURTHER
INVESTIGATION AND FIELD WORK

NORMANDE
DRIVE

NOTES

SEE SHEET 2 FOR MONUMENT NOTES, ESTABLISHMENT, EASEMENT NOTES,
LINE AND CURVE TABLE

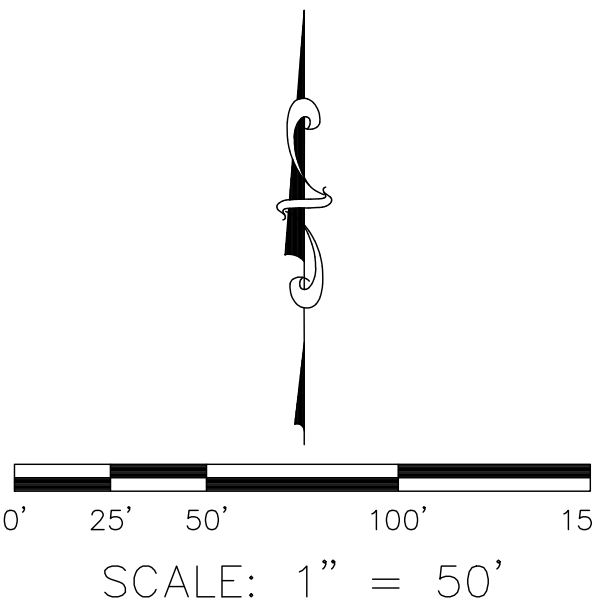
SEE SHEET 3 FOR BOUNDARY MAP INDEX.

U.S. Survey
Foot

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

LEGEND

- FOUND MONUMENT AS NOTED
⊗ S.F.N. - SEARCHED, FOUND NOTHING
⊠ POSITION ESTABLISHED BY TIES (MONUMENT
INACCESSIBLE DUE TO TRAFFIC CONDITIONS)
▣ S.F.N. ESTABLISHED BY TIES
C CALC FROM RECORD MAP
EASEMENT AS NOTED



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION				
		BOUNDARY MAP				
		PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD THE PROPOSED BIKEWAY.				
		DATE OF SURVEY: 11/18/2021		BY: T. LOFGREEN & PARTY		SHEET NO. 7 of 8
		MAPPING		BY: F. DADASH, PLS		
		OFFICE CHECK		BY: M. KUBISTY, PLS		
		FIELD CHECK		BY: T. LOFGREEN & PARTY		
		SCALE: 1" = 20'		W.O. #EC41293 FILE #2122PW-REC0001		
		MARK	DATE	ITEM		FILE: ALISO CREEK BIKEWAY-BOUNDARY-2021.DWG
REVISIONS						

LEGEND

SYMBOL

- Benchmark
- Bus Stop Enclosure
- Bush
- Control Point
- Meter Water
- Pedestrian Activator
- Pull Box Traffic
- Sign Post
- Traffic Signal w/ Light
- Trash Can
- Tree
- Utility Warning Sign
- Valve Gas
- Valve Irrigation
- Valve Water
- Vault Water
- Vent Pipe
- Water Line Appurtenance-Cathodic Test
- Water Line Appurtenance-Pressure Release
- Water Line Appurtenance-Undefined

LINE PATTERN KEY

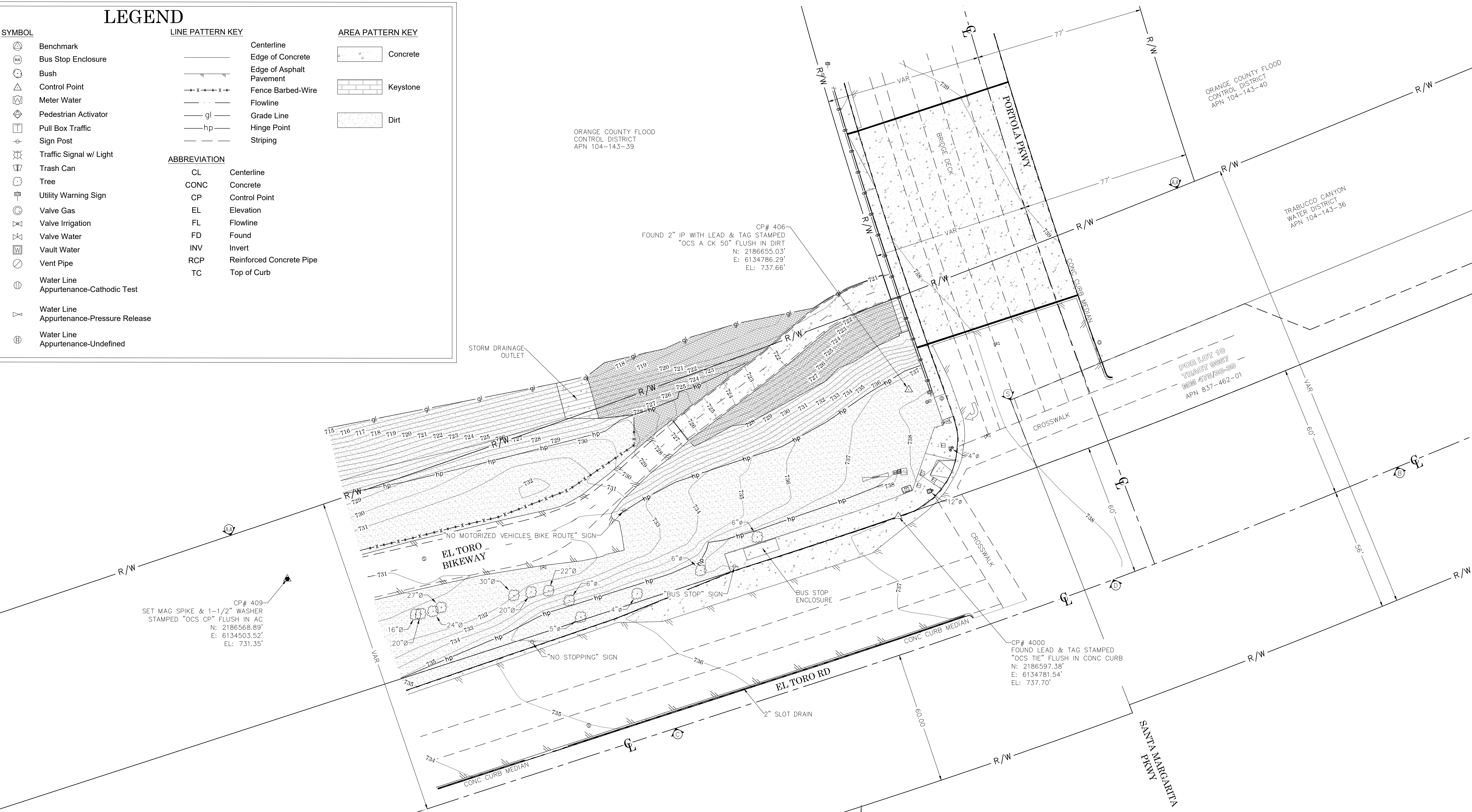
- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Flowline
- Grade Line
- Hinge Point
- Striping

AREA PATTERN KEY

- Concrete
- Keystone
- Dirt

ABBREVIATION

CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
FL	Flowline
FD	Found
INV	Invert
RCP	Reinforced Concrete Pipe
TC	Top of Curb



U.S. Survey Foot

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

0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

REVISIONS		
MARK	DATE	ITEM

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
ALISO CREEK BIKEWAY COUNTY EASEMENT ACQUISITION			
TOPOGRAPHIC MAP			
PROJECT LIMITS: FROM THE NWLY CORNER OF THE PORTOLA PKWY AND EL TORO RD			
THE PROPOSED BIKEWAY.			
DATE OF SURVEY: 11/18/2021	BY: T. LOFGREEN & PARTY	SHEET NO. 8 of 8	
MAPPING	BY: J. PEDRETTI		
OFFICE CHECK	BY: M. KUBISTY, PLS		
FIELD CHECK	BY: T. LOFGREEN & PARTY		
SCALE: 1" = 20'	W.O. #EC41293	FILE #2122PW-RE0001	FILE: ALISO CREEK BIKEWAY_TOPO_2021.DWG