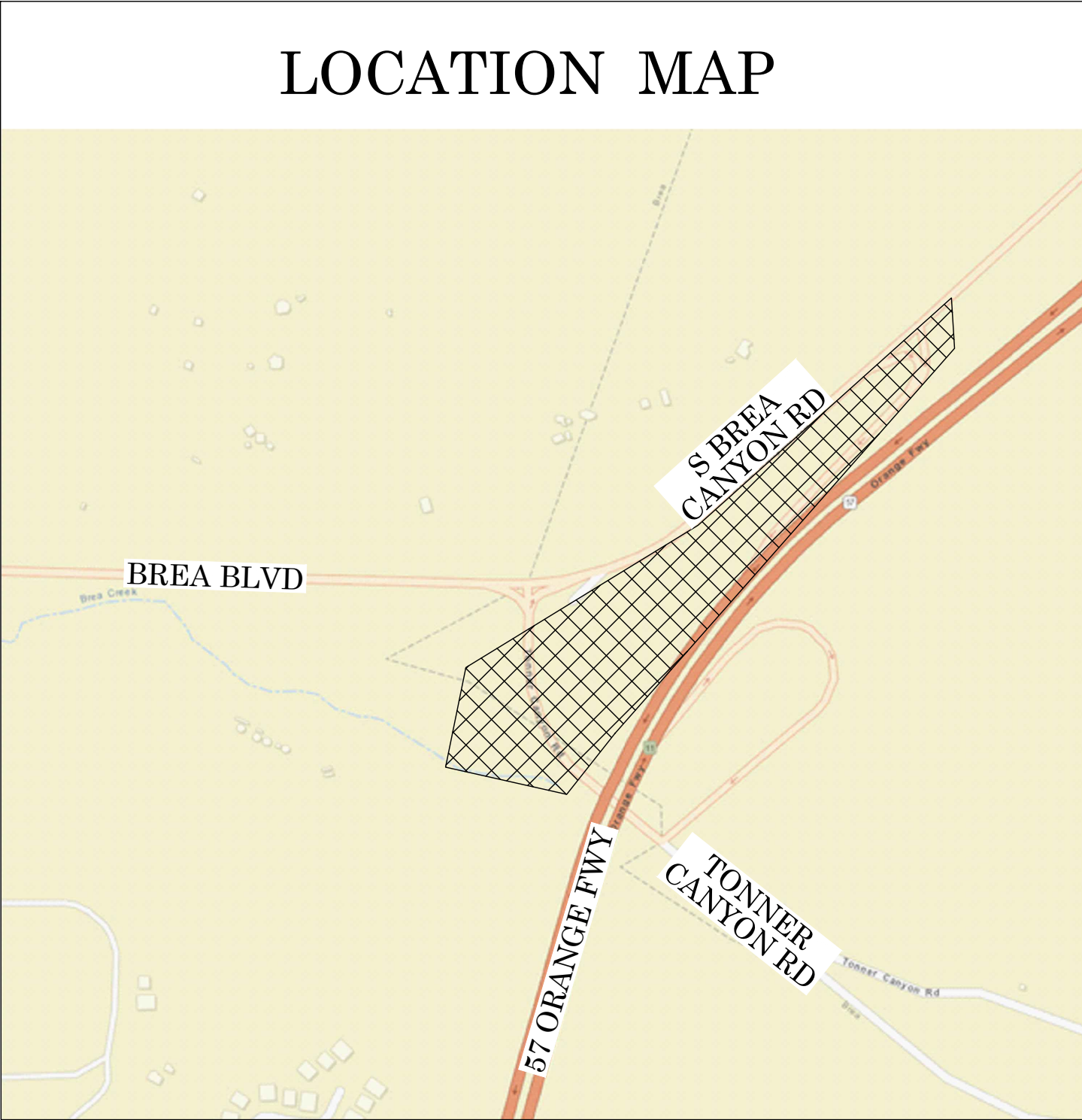




OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
KEVIN HILLS, COUNTY SURVEYOR
BREA CANYON CHANNEL (A04)



TONNER CANYON CHANNEL (A09) CONFLUENCE



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 19 DAY OF JULY, 2023.

MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



SENIOR LAND SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 6 DAY OF OCTOBER, 2022.

ELLIOT MEDINA, PLS. SENIOR LAND SURVEYOR



FOUND CGPS "LBC1"
N: 2251578.40
E: 5988579.34
THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN)

FOUND CGPS "OEOC"
N: 2225550.98
E: 6107583.77
THIS IS A CONTINUOUS GPS STATION (CGPS) AND IS PART OF THE CALIFORNIA SPATIAL REFERENCE NETWORK (CSRN)

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 (OEOC) AND (LBC1) BEING NORTH 77°39'47.23" 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 1.00000662.

THIS COMBINATION FACTOR WAS HELD AT: CP# 4317
N: 2289804.15' E: 6067849.014' EL: 463.16'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. 2C-106-86 ELEV. = 481.123' YEAR LEVELED: 2014

NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: DESCRIBED BY OCS 2003 - FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "2C-106-86", SET IN THE TOP OF A CONCRETE HEADWALL FOR A CONCRETE FLOOD CHANNEL. MONUMENT IS LOCATED IN THE SOUTHEASTLY CORNER OF THE INTERSECTION OF BREA BOULEVARD AND THE 57 FREEWAY SOUTHBOUND ON-RAMP, 70 FT. SOUTHEASTLY OF THE CENTERLINE OF BREA BOULEVARD AND 25 FT. SOUTHEASTLY OF POWER POLE (#1929601E). MONUMENT IS SET LEVEL WITH THE TOP OF THE CHANNEL WALL.

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	TITLE SHEET
SHEETS 2-7	BOUNDARY MAP
SHEETS 8-12	TOPOGRAPHIC SHEET
SHEET 13	DETAIL SHEET

BASIS OF STATIONING

THE BASIS OF STATIONING FOR THE CENTERLINE CHANNEL SHOWN HEREON IS 8+06.92 PER RECORD "ASBUILT" DRAWING 55 C0119 SHEET #8 DATED 02/15/1973. HELD AT THE MOST WESTERLY END OF THE PROPOSED BREA CANYON CHANNEL ALIGNMENT SHOWN IN SAID DRAWING.

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY IS TO PROVIDE RIGHT OF WAY, BOUNDARY ESTABLISHMENT, CHANNEL CENTERLINE ALIGNMENT, AND TOPOGRAPHY FOR THIS PORTION OF THE PROPOSED BREA CANYON CHANNEL.

				COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE			
		TITLE SHEET			
		PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57			
		DATE OF SURVEY: 06/16/2023		BY: T. LOFGREEN & CREW	
MAPPING		BY: R. CASANAVE			
OFFICE CHECK		BY: E. MEDINA, PLS			
FIELD CHECK		BY: T. LOFGREEN & CREW			
SCALE: N.T.S.		W.O. #EF03861			
MARK	DATE	ITEM	FILE: BREA CANYON CHANNEL 2023.DWG		
REVISIONS					

MONUMENT NOTES

- FOUND 2" BRASS DISK IN 6" IRON PIPE STAMPED "U.O.C. STEARNS NO. 5. ELEV. 462.93 LS 1968" PER R3, FLUSH IN DIRT, ACCEPTED AS A POINT ON RANCHO SAN JUAN CAJON DE SANTA ANA AS SHOWN ON R2.

FOUND 3" IRON PIPE WITH 4" PUNCHED STEEL CAP STAMPED "UNION OIL COMPANY OF CALIFORNIA" NO REFERENCE, SHOWN ON R3 AND R4, UP 0.6' IN DIRT, ACCEPTED AS ANGLE POINT IN RANCHO SAN JUAN DE SANTA ANA AND POINT ON RANCHO RINCON DE LA BREA.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG STAMPED "CAL TRANS" PER R7, DOWN 0.5' IN DIRT, ACCEPTED AS 2" BRASS DISK IN 6" CASING STAMPED "U.O. CO. STEARNS NO. 7 ELEV. 444.73' LS 1968" OF R3, ALSO BEING ANGLE POINT IN RANCHO 1D OF R21, AND POINT ON LINE R13.

FOUND 6" IRON PIPE WITH NAIL IN CONC STAMPED "COM 2 UOC" PER R20, UP 0.3' IN DIRT, ACCEPTED AS 6" CASING STAMPED "U.O.C. "—" G—L.O.C.", "COMP. COR. NO. 2 Dec "04" OF R20.

FOUND 6" IRON PIPE WITH 1/2" PUNCHED STEEL NAIL STAMPING "ILLEGIBLE" PER R20, UP 1.0 FT IN DIRT, ACCEPTED AS 6" CASING STAMPED "U.O.C. "—" G—L.O.C. " "COMP. COR. NO. 1 Dec "04" OF R20.

FOUND CHISELED X IN CONC HEADWALL ACCEPTED AS TIE AS SHOWN ON R6.

FOUND CHISELED X IN CONC HEADWALL ACCEPTED AS TIE AS SHOWN ON R6.

FOUND PK NAIL FLUSH IN AC AS SHOWN ON R6. ACCEPTED AS CENTERLINE BC OF BREA CANYON BLVD.

FOUND SPIKE AND 1—1/2" OCS WASHER PER R17, FLUSH IN AC, HELD AS POINT ON CENTERLINE BREA BLVD. N87°35'04"W 0.80' FROM BC OF BREA BLVD OF R8.

FOUND SPIKE AND 1—1/2" OCS WASHER PER R17, FLUSH IN AC, ACCEPTED AS INTERSECTION OF BREA BLVD. AND TONNER CANYON RD. OF R11.

FOUND PK NAIL NO REFERENCE, FLUSH IN AC, S75°30'26"E 0.11' FROM CENTERLINE EC OF BREA BLVD. OF R1.

FOUND SQUAREHEAD SPIKE AND 1—1/2" WASHER STAMPED "DIV OF HWYS" PER R11, DN 0.1' IN AC, HELD AS POINT ON CENTERLINE TONNER CANYON RD. N01°18'26"W 0.05' FROM BC OF TONNER CANYON RD.

FOUND SQUAREHEAD SPIKE AND 1—1/2" WASHER STAMPED "DIV OF HWYS" PER R11, DN 0.1' IN AC, HELD AS POINT ON CENTERLINE TONNER CANYON RD. S48°00'00"E 0.07' FROM EC OF TONNER CANYON RD..

FOUND SPIKE AND WASHER ILLEGIBLE NO REFERENCE, FLUSH IN AC, N42°00'00"E 3.19' FROM CENTERLINE TONNER CANYON RD.

FOUND PUNCHED SQUARE HEAD SPIKE WITH 1—1/2" STEEL WASHER STAMPING "ILLEGIBLE" PER R11, FLUSH IN AC, ACCEPTED AS POINT ON CENTERLINE TONNER CANYON.

FOUND 2" IRON PIPE WITH 3/4" IN TAG IN CONCRETE STAMPED "CAL TRANS" PER R7, DOWN 1.0' IN DIRT, ACCEPTED AS POINT ON COMPROMISED LINE PER R20 AND ALSO THE EC OF NON—TANGENT CURVE OF PARCEL A6471—7 OF R12.

FOUND 4"x4"CONC POST WITH LEAD NO TACK WITH WITNESS POST MARKED 778+84.76 P.I. PER MWD FB 2011—05, PG 18, DOWN 0.80' IN DIRT, ACCEPTED AS ANGLE POINT IN CENTERLINE OF MWD PIPELINE OF BK 18087 PG 312 O.R. LOS ANGELES COUNTY.

FOUND 4"x4"CONC POST WITH LEAD AND TACK PER MWD FB 2011—05, PG 15, DOWN 0.80' IN DIRT, ACCEPTED AS ANGLE POINT IN CENTERLINE OF MWD PIPELINE AS SHOWN ON R9.

FOUND 1" IRON PIPE WITH 1" PLASTIC CAP STAMPED "LS 6187" PER R9, FLUSH IN DIRT, ACCEPTED AS POINT ON LINE BETWEEN RANCHO SAN JUAN CAJON DE SANTA ANA AND RANCHO RINCON DE LA BREA AND HELD AS POINT ON THE NWLY LINE OF MWD PIPELINE OF R9.

FOUND 1" IRON PIPE WITH 1" PLASTIC CAP STAMPED "LS 6187" PER R9, FLUSH IN DIRT, HELD AS POINT ON LINE BETWEEN RANCHO SAN JUAN CAJON DE SANTA ANA AND RANCHO RINCON DE LA BREA S57°15'36"E 0.06' FROM SE'LY LINE OF MWD PIPELINE OF R9.

FOUND GEAR SPIKE WITH 1—3/4" WASHER STAMPED "LS 6187" PER R9, FLUSH IN AC, N39°43'56"W 0.04' FROM POINT ON SE'LY LINE OF MWD PIPELINE OF R9.

FOUND GEAR SPIKE WITH 1—3/4" WASHER STAMPED "LS 6187" PER R9, FLUSH IN AC N37°40'11"W 0.11' FROM PCC OF NWLY LINE OF MWD PIPELINE OF R9.

FOUND GEAR SPIKE AND WASHER STAMPED "LS 6187 PER R9, FLUSH IN AC, N40°37'21"W 0.13' FROM CENTERLINE MWD PIPELINE OF R9.

FOUND SPIKE AND 1—1/2" OCS WASHER PER R18, FLUSH IN AC, N40°37'21"W 0.10' FROM CENTERLINE MWD PIPELINE OF R9.

FOUND 2" IRON PIPE WITH 3/4 IN BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, FLUSH IN DIRT, N32°38'47"W 0.07' FROM POINT ON COMPROMISE LINE PER R20 AND ALSO THE EC OF NON—TANGENT CURVE OF PARCEL A6471—6 OF R12 HELD FOR RECORD DISTANCE OF 286.71' SE'LY ALONG LINE ESTABLISHMENT NOTE 6 PER R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, FLUSH IN DIRT, ACCEPTED AS SE'LY ANGLE POINT OF PARCEL A6471—6 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7 DN 0.20' IN DIRT, ACCEPTED AS SW'LY ANGLE POINT OF PARCEL A6471—6 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7 DN 0.30' IN DIRT, ACCEPTED AS W'LY ANGLE POINT OF PARCEL A6471—6 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 0.20' IN DIRT, HELD AS POINT ON CURVE PER R12 N22°34'29"E 0.30' FROM BC OF NON—TANGENT CURVE OF PARCEL A6471—6 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 0.20' IN DIRT, ACCEPTED AS EC OF NON—TANGENT CURVE OF SE'LY CURVE OF PARCEL A6471—4 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 0.90' IN DIRT, ACCEPTED AS EC OF NON—TANGENT CURVE IN SE'LY CURVE OF PARCEL A6471—7 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 0.20', ACCEPTED AS ANGLE POINT IN S'LY LINE OF PARCEL A6471—7 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, UP 0.30' IN DIRT, ACCEPTED AS ANGLE POINT IN N'LY LINE OF PARCEL A6471—7 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 0.50' IN DIRT, ACCEPTED AS ANGLE POINT IN N'LY LINE OF PARCEL A6471—7 OF R12.

FOUND 2" IRON PIPE WITH 3/4" BRASS TAG IN CONC. STAMPED "CAL TRANS" PER R7, DN 1.1' IN DIRT, ACCEPTED AS BC OF NON—TANGENT CURVE OF PARCEL A6471—7 OF R12.

FOUND 1" IRON PIPE WITH PLASTIC PLUG STAMPED "LS 6187" PER R9, FLUSH IN DIRT, N50°15'40"W 0.10' FROM ANGLE POINT IN NWLY LINE OF MWD PIPELINE OF R9.

FOUND 1" IRON PIPE 766+65 PI DOWN 1.2 FT IN DIRT PER MWD FB 2011—05, PG 14, ACCEPTED AS ANGLE POINT IN CENTERLINE MWD PIPELINE OF R15.

FOUND 1" IRON PIPE WITH PLASTIC PLUG STAMPED "LS 6187" PER R9, FLUSH IN DIRT, N79°00'40"W 0.10' FROM ANGLE POINT IN SWLY LINE OF MWD PIPELINE OF R9.

FOUND SPIKE AND 1—1/2" OCS WASHER PER R19, FLUSH IN AC, ACCEPTED AS ANGLE POINT IN CENTERLINE BREA BLVD OF R1.

FOUND 1" PUNCHED SPIKE WITH PUNCH IN CONCRETE NO REFERENCE, DN 1.4' IN DIRT, ACCEPTED AS ANGLE POINT IN THE NWLY LINE OF R13.

FOUND 1" IRON PIPE WITH 1—1/4" PUNCHED PLASTIC CAP STAMPED "LS 6187" PER R9, FLUSH IN DIRT, N79°15'45"W 0.08' FROM ANGLE POINT IN NWLY LINE OF MWD PIPELINE OF R9.

FOUND 1"IRON PIPE WITH 1—1/4" PUNCH PLASTIC CAP STAMPED "LS 6187" PER R9, UP 0.1' IN DIRT S89°55'12"W 0.05' FROM ANGLE POINT IN NWLY LINE OF MWD PIPELINE OF R9.

FOUND PUNCHED GEAR SPIKE WITH 1—3/4" ALUMINUM WASHER STAMPED "LS 6187" PER R9, FLUSH IN AC, N38°54'30"W 0.04' FROM POINT ON NWLY LINE OF MWD PIPELINE OF R9

FOUND BROKEN GEAR SPIKE FLUSH IN AC ACCEPTED AS PUNCHED GEAR SPIKE WITH 1—3/4" ALUMINUM WASHER STAMPED "LS 6187" PER R9, ACCEPTED AS A POINT ON THE SE'LY LINE OF MWD PIPELINE OF R9.

FOUND PUNCHED GEAR SPIKE WITH 1—3/4" ALUMINUM WASHER STAMPED "LS 6187" PER R9, FLUSH IN AC, N38°54'30"W 0.04' FROM A POINT ON THE N'ELY LINE OF MWD PIPELINE OF R9.

FOUND LEAD & BRASS PIN WITH 3/4" BRASS TAG STAMPED "LS 6187" PER R9, FLUSH IN TOP OF CONCRETE CURB, N38°54'30"W 0.04' FROM A POINT ON THE SWLY LINE OF MWD PIPELINE OF R9.

FOUND 1" IRON PIPE WITH 1—1/4" PUNCH PLASTIC CAP STAMPED "LS 6187" PER R9, DN 0.2' IN DIRT, HELD AS POINT ON NWLY LINE OF MWD PIPELINE OF R9.

FOUND IRON PIPE WITH 1—1/2 IN BRASS TAG STAMPED "M.W.D. P.I. 756+19.30" PER MWD FB 2011—05, PG 13, DOWN 0.2 FT IN DIRT, ACCEPTED AS ANGLE POINT IN CENTERLINE MWD PIPELINE OF R15.

FOUND 1" IRON PIPE WITH 1—1/4" PUNCH PLASTIC CAP STAMPED "LS 6187" PER R9, UP 0.1' IN DIRT, N38°54'30"W 0.05' FROM POINT ON SWLY LINE OF MWD PIPELINE OF R9.

FOUND 2" HOLLOW IRON PIPE NO REFERENCE, DN 1.4' IN DIRT, ACCEPTED AS 2" IRON PIPE 12" DEEP AT PI STA 3+21.67 OF BREA BLVD AS SHOWN ON R16.

FOUND 2" IRON PIPE WITH BRASS CAP STAMPED "LA CO., R10W, T2S, R9W 36,31,6, T3S, R9W O. CO." AS SHOWN ON RECORD OF SURVEY RS BK 35 PG 45, UP 1.1' IN DIRT, ACCEPTED AS NW CORNER SEC 6, T3S, R9W, S.B.B.&M OF R1.

FOUND 1—1/2" IRON PIPE WITH 2" PUNCHED STEEL CAP "ILLEGIBLE" NO REFERENCE, DN 0.60' IN DIRT, ACCEPTED AS 1—1/2" IRON PIPE WITH 2" CAP 1.5' DEEP AS SHOWN ON R3.

FOUND 3—1/2" BRONZE USGS DISK STAMPED "USGS STAMPED 896T HORSE 1957" ACCEPTED AS BENCH MARK HORSE—1938 AND TIE POINT SHOWN ON R4.

ESTABLISHMENT NOTES

- A) ESTABLISHED THE EC ON CENTERLINE OF BREA BLVD BY HOLDING MONUMENT NOTE [8].
- B) ESTABLISHED THE CENTERLINE OF BREA BLVD BY HOLDING A LINE BETWEEN MONUMENT NOTES [8] AND [9].
- C) ESTABLISHED THE CENTERLINE OF BREA BLVD BY CRANDALL RULE ADJUSTMENT PER R8 & R16 BETWEEN MONUMENT NOTES [39] AND [51].
- D) ESTABLISHED THE CENTERLINE OF BREA BLVD BY RECORD DEFLECTION ANGLE 0°27'30" PER R8, HELD AT MONUMENT NOTE [39] FROM LINE ESTABLISHMENT NOTE [9].
- E) ESTABLISHED THE CENTERLINE OF BREA BLVD, HOLDING RECORD RADIUS OF 1000.00' PER R1 TANGENT TO LINE ESTABLISHMENTS [9] AND [10].
- F) ESTABLISHED THE INTERSECTION OF CENTERLINE BREA BLVD, AND THE NORTH LINE OF SEC 6, T3S, R9W, S.B.B.&M. PER R1, HOLDING LINE ESTABLISHMENT NOTE [9] RECORD DISTANCE 155.27' PER R16 SW'LY FROM MONUMENT NOTE [50].
- G) ESTABLISHED THE NORTH LINE OF RANCHO SAN JUAN CAJON DE SANTA ANA BY HOLDING A LINE BETWEEN MONUMENT NOTES [1] AND [2].
- H) ESTABLISHED THE WEST LINE OF NE'LY PORTION OF RANCHO SAN JUAN CAJON DE SANTA ANA BY HOLDING RECORD ANGLE 76°38'48" PER R3.
- I) ESTABLISHED THE LINE BETWEEN RANCHO SAN JUAN CAJON DE SANTA ANA AND RANCHO RINCON DE LA BREA BY HOLDING A LINE BETWEEN MONUMENT NOTES [2] & [3].
- J) ESTABLISHED THE COMPROMISED LINE PER R20 BY HOLDING A LINE BETWEEN MONUMENT NOTES [3] AND [4].
- K) ESTABLISHED THE COMPROMISED LINE PER R20 BY HOLDING A LINE BETWEEN MONUMENT NOTES [4] AND [5].
- L) ESTABLISHED THE CENTERLINE OF TONNER CANYON RD. BY HOLDING A LINE BETWEEN MONUMENT NOTES [10] AND [12].
- M) ESTABLISHED THE CENTERLINE OF TONNER CANYON RD. BY HOLDING A LINE BETWEEN MONUMENT NOTES [13] AND [15].
- N) ESTABLISHED THE CENTERLINE OF TONNER CANYON RD. HOLDING RECORD RADIUS 500.00' PER R11 TANGENT TO LINE ESTABLISHMENTS [1] AND [10].
- O) ESTABLISHED THE THE CENTERLINE OF MWD PIPELINE AS SHOWN BY R9, BY HOLDING A LINE BETWEEN MONUMENT NOTES [17] AND [18].
- P) SFN, ESTABLISHED THE BC OF A NON-TANGENT CURVE IN NE'LY LINE OF PARCEL A6471-7 RECORD DISTANCE, OF 126.39' PER R12 SE'LY FROM MONUMENT NOTE [4] ALONG LINE ESTABLISHMENT NOTE [9].
- Q) ESTABLISHED A NON-TANGENT CURVE RADIAL BEARING N66°51'48"W HOLDING RECORD RADIUS 3079.00' PER R12 BETWEEN ESTABLISHMENT NOTE [9] AND MONUMENT NOTE [31].
- R) SFN, ESTABLISHED THE ANGLE POINT IN S'LY LINE OF PARCEL A6471-7 OF R12 BY CRANDALL RULE ADJUSTMENT BETWEEN MONUMENT NOTES [31] AND [32].
- S) SFN, ESTABLISHED THE ANGLE ANGLE POINT IN W'LY LINE OF PARCEL A6471-7 OF R12 BY CRANDALL RULE ADJUSTMENT BETWEEN MONUMENT NOTES [33] AND [32].
- T) ESTABLISHED A NON-TANGENT CURVE RADIAL BEARING S66°29'15"W HOLDING RECORD RADIUS 550.00' PER R12 BETWEEN MONUMENT NOTES [35] AND [16].
- U) SFN, ESTABLISHED ANGLE POINT IN S'LY LINE OF PARCEL A6471-6 OF R12 BY CRANDALL RULE ADJUSTMENT BETWEEN MONUMENT NOTES [26] AND [27].
- V) ESTABLISHED A PORTION OF THE SW'LY NON-TANGENT CURVE ALONG PORTION OF PARCEL A6471-4 OF R12 RADIAL BEARING N71°03'58"W HOLDING A RECORD RADIUS OF 2921.00' PER R12 BETWEEN MONUMENT NOTES [50] AND [29].
- W) ESTABLISHED THE NW'LY NON-TANGENT CURVE RADIAL BEARING N70°17'58"W OF PARCEL A6471-6 OF R12 HOLDING RECORD RADIUS 2921.00' PER R12 BETWEEN MONUMENT NOTES [39] AND [24].
- X) SFN, ESTABLISHED A POINT ON CENTERLINE OF MWD PIPELINE RECORD DISTANCE OF 358.63' PER R9 FROM MONUMENT NOTE [3] NW'LY ALONG LINE ESTABLISHMENT NOTE [10].
- Y) SFN, ESTABLISHED THE CENTERLINE BC OF MWD PIPELINE PER R9 RECORD ANGLE 107°31'40" AND A RECORD DISTANCE 37.13' PER R9, FROM ESTABLISHMENT NOTE [9].
- Z) ESTABLISHED THE CENTERLINE OF MWD PIPELINE PER R9 HOLDING A LINE BETWEEN ESTABLISHMENT NOTES [9] AND [10].
- AA) SFN, ESTABLISHED THE EC OF A TANGENT CURVE CONCAVE NW'LY HOLDING RECORD RADIUS 200.00' AND RECORD DELTA 16°59'45" PER R9.
- AB) ESTABLISHED THE CENTERLINE OF MWD PIPELINE HOLDING RECORD RADIUS OF 200.00' PER R9 BETWEEN ESTABLISHMENT NOTES [9] AND [40].
- AC) ESTABLISHED THE NW'LY LINE OF MWD PIPELINE PER R9 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 12.5' FROM LINE ESTABLISHMENTS [9] AND [40].
- AD) ESTABLISHED THE SE'LY LINE OF MWD PIPELINE PER R9 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 12.5' FROM LINE ESTABLISHMENTS [9] AND [40].
- AE) ESTABLISHED THE CENTERLINE OF MWD PIPELINE BY HOLDING A LINE BETWEEN MONUMENT NOTES [18] AND [37].
- AF) ESTABLISHED THE CENTERLINE OF MWD PIPELINE BY HOLDING A LINE BETWEEN MONUMENT NOTES [37] AND [48].
- AG) ESTABLISHED A POINT ON CENTERLINE MWD PIPELINE HOLDING A RECORD DISTANCE OF 459.70' PER R15 SW'LY FROM MONUMENT NOTE [48] ALONG LINE ESTABLISHMENT NOTE [40].
- AH) ESTABLISHED THE NW'LY LINE OF MWD PIPELINE OF R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 12.5' PER R15 FROM LINE ESTABLISHMENT NOTE [40].
- AI) ESTABLISHED THE SE'LY LINE OF MWD PIPELINE OF R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 12.5' PER R15 FROM LINE ESTABLISHMENT NOTE [40].
- AJ) ESTABLISHED THE NW'LY LINE OF MWD PIPELINE OF R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 7.5' PER R15 FROM LINE ESTABLISHMENT NOTE [40].
- AK) ESTABLISHED THE SE'LY LINE OF MWD PIPELINE OF R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 7.5' PER R15 FROM LINE ESTABLISHMENT NOTE [40].
- AL) ESTABLISHED THE W'LY LINE OF R13, BETWEEN MONUMENT NOTES [4] AND [40].
- AM) SFN, ESTABLISHED A POINT ON THE W'LY LINE OF R13, AS INTERSECTION OF LINE ESTABLISHMENTS [40] AND [40] PER R15.
- AN) ESTABLISHED THE NW'LY LINE OF MWD PIPELINE PER R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 7.5' FROM LINE BETWEEN ESTABLISHMENT NOTE [40] AND MONUMENT NOTE [37].
- AO) ESTABLISHED THE SE'LY LINE OF MWD PIPELINE PER R15 HOLDING A LINE PARALLEL WITH AND RECORD DISTANCE OF 7.5' FROM A LINE BETWEEN ESTABLISHMENT NOTE [40] AND MONUMENT NOTE [37].
- AP) ESTABLISHED THE SE'LY EC/RW OF BREA BLVD. PER R1 RADIAL TO CENTERLINE ESTABLISHMENT NOTE [9] AND RECORD DISTANCE OF 40.00'.
- AQ) ESTABLISHED THE INTERSECTION WITH THE W'LY LINE OF R13 HOLDING A LINE PARALLEL WITH AND RECORD OF 40.00' FROM LINE ESTABLISHMENT [9].
- AR) ESTABLISHED A POINT ON THE SE'LY R/W LINE OF BREA BLVD. RECORD DISTANCE 14.77' PER R21 BETWEEN ESTABLISHMENT NOTE [40] AND [40].
- AS) ESTABLISHED THE E'LY BC/RW OF TONNER CANYON RD. OF R10 RADIAL TO CENTERLINE ESTABLISHMENT NOTE [9] AND RECORD DISTANCE OF 50.00'.
- AT) ESTABLISHED A POINT ON CURVE OF THE NE'LY R/W LINE OF TONNER CANYON RD. PER R10, ALONG A LINE PARALLEL WITH AND RECORD DISTANCE OF 50.00' FROM LINE ESTABLISHMENT NOTE [9] SE'LY ALONG SAID CURVE A RECORD DISTANCE OF 228.31' PER R21 SE'LY FROM ESTABLISHMENT NOTE [9].
- AU) ESTABLISHED W'LY LINE OF PARCEL 1D OF R21 BY HOLDING RECORD ANGLES, DISTANCES AND CURVATURE PER R21 BETWEEN ESTABLISHMENT NOTES [40] AND [40]. THE LAST COURSE OF L20 SHALL BE SHORTENED OR LENGTHENED TO TERMINATE ON A CURVE CONCAVE E'LY PER R21.

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE		
			BOUNDARY MAP		
			PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57		
			DATE OF SURVEY: 06/16/2023		
MARK	DATE	ITEM	MAPPING		SHEET NO. 2 of 13
			OFFICE CHECK		
			FIELD CHECK		
			SCALE: N.T.S.		
			FILE: BREA CHANNEL BOUNDARY.DWG		
W.O. #EFO3861		BY: T. LOFGREEN & CREW			
FILE #2233PW-PR0004		BY: E. MEDINA, PLS			
BY: T. LOFGREEN & CREW		BY: E. MEDINA, PLS			
BY: T. LOFGREEN & CREW		BY: E. MEDINA, PLS			

NOTES

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

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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.

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N02°24'56"E	10.00'	N/A
L2	N02°24'56"E	20.00'	N/A
L3	N02°24'56"E	11.34'	N/A
L4	N02°24'56"E	8.66'	N/A
L5	N02°24'56"E	20.00'	N/A
L6	N02°24'56"E	10.00'	N/A

LO1 1, SEC. 1
T.8S. R.10W.
S.B.B.&M.

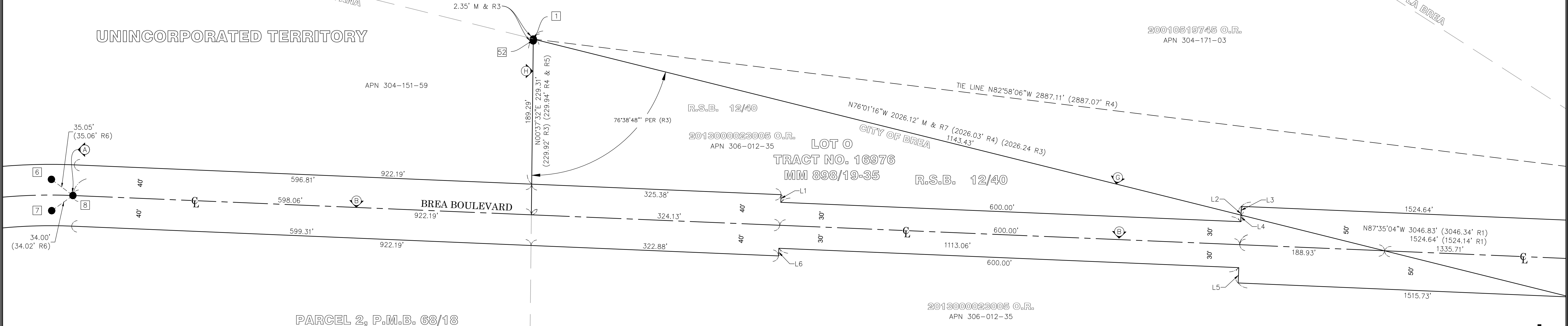
UNINCORPORATED TERRITORY

RANCHO RINCON DE LA BREA

UNINCORPORATED TERRITORY

APN 304-151-59

20010519745 O.R.
APN 304-171-03



PARCEL 2, P.M.B. 68/18

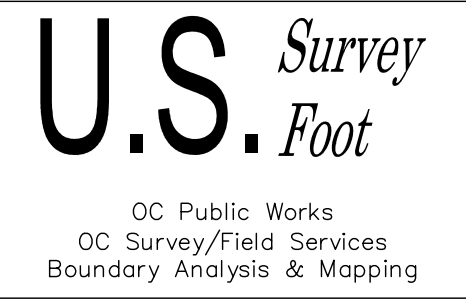
CITY OF BREA

LOT O
TRACT NO. 16976
MM 898/19-35

UNINCORPORATED TERRITORY

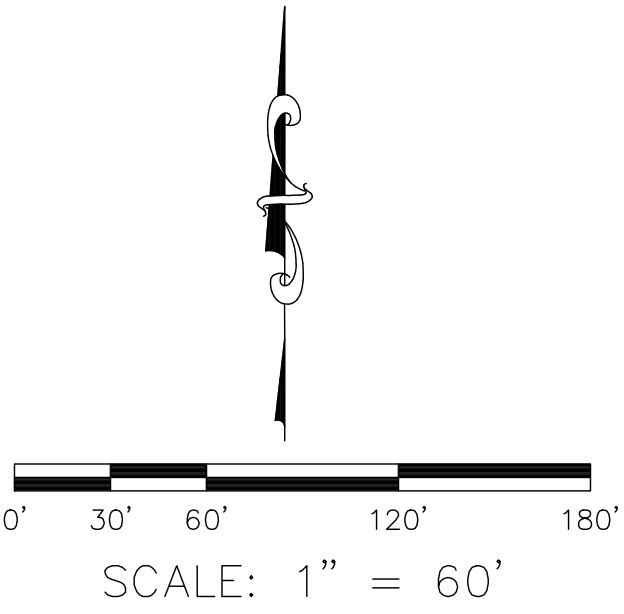
REFERENCES

- (R1) = 214/212 O.R. AND 216/177 O.R. RECORDS OF ORANGE COUNTY
- (R2) = PARCEL MAP, P.M.B. 68/18
- (R3) = RECORD OF SURVEY, R.S.B. 12/40
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- (R5) = 220/38 O.R. RECORDS OF ORANGE COUNTY
- (R6) = COUNTY OF ORANGE MONUMENT RECORD GPS 3711
- (R7) = CAL TRANS MONUMENTATION MAP MM ORA 057 22.0, 002221-SM0677
- (R8) = CAL TRANS TIE NOTES AOR057E 0020
- (R9) = RECORD OF SURVEY 2009-1153, R.S.B. 243/3-14
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- (R15) = 1050/463 O.R. RECORDS OF ORANGE COUNTY
- (R16) = CAL TRANS TIE NOTES ROR057E 0003
- (R17) = CORNER RECORD 2022-3402
- (R18) = CORNER RECORD-2022-3401
- (R19) = CORNER RECORD 2022-3403
- (R20) = 120/223-228 O.R. RECORDS OF ORANGE COUNTY
- (R21) = 9473/91-124 O.R. RECORDS OF ORANGE COUNTY



LEGEND

- FOUND MONUMENT AS NOTED
- MONUMENT ESTABLISHED BY TIES
- ⊗ S.F.N. - SEARCHED, FOUND NOTHING
- ⊠ S.F.N., ESTABLISHED BY TIES
- C CALC FROM RECORD MAP
- R RECORD MAP
- M MEASURED



SCALE: 1" = 60'

SEE SHEET 4

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE				
		BOUNDARY MAP				
		PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57				
MARK	DATE	ITEM	DATE OF SURVEY: 06/16/2023		BY: T. LOFGREEN & CREW	SHEET NO. 3 of 13
			MAPPING		BY: OFFICE SURVEYOR	
			OFFICE CHECK		BY: E. MEDINA, PLS	
			FIELD CHECK		BY: T. LOFGREEN & CREW	
			SCALE: 1" = 60'		W.O. #EF03861	
		FILE: BREA_CHANNEL_BOUNDARY.DWG				

NOTES

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

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L7	N50°16'04"E	33.18'	(33.18' R9)
L8	N49°22'39"E	74.19'	(74.15' R9)
L9	N50°16'04"E	37.13'	(C 37.13' R9)
L10	N50°16'04"E	7.81'	(7.81' R9)
L11	N50°16'04"E	33.26'	(33.25' R9)
L12	N57°15'36"W	7.90'	(7.85' R9)
L13	N57°15'36"W	5.21'	(5.26' R9)
L14	N57°15'36"W	13.11'	(13.11' R9)
L15	N66°27'09"E	19.37'	(20.00' R4 & R12)
L16	N33°21'15"E	103.83'	(103.83' R10)
L17	N29°22'12"E	90.90'	N/A
L18	N29°22'12"E	76.97'	(76.88' R7)
L19	N29°22'12"E	167.87'	(167.73' R3 & R4)
L20	N45°05'53"E	72.29'	N/A
L21	N79°59'42"E	128.32'	(128.30' R4 & R12)

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L22	N24°59'09"E	204.92'	(205.00' R4 & R12)
L23	N55°31'22"W	177.38'	(177.43' R4 & R12)
L26	N57°21'13"W	126.41'	(126.39' R4 & R12)
L31	N02°24'56"E	10.00'	RADIAL
L32	N05°18'31"W	10.00'	(10.00' R10)
L33	N41°44'13"E	34.09'	(34.09' R10)
L34	N44°22'29"W	39.64'	(39.64' R10)
L42	N40°31'20"W	40.00'	(40.00' R1)
L43	N35°13'59"W	6.65'	(6.50' R9)
L44	N35°13'59"W	0.85'	(1.00' R9)
L45	N54°46'01"E	9.99'	(11.81' R9)
L46	N29°22'12"E	1111.53'	(1110.09' R15)
L47	N47°16'10"E	6.42'	(6.42' R21)
L67	N57°15'13"W	215.60'	(214.64' R12)
L68	N29°22'12"E	96.80'	N/A
L69	N29°24'45"E	96.95'	(96.95' R21)

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	RECORD LENGTH
C1	6.75	187.50	002°03'45"	(6.75' R9)
C2	25.08	187.50	007°39'45"	(25.08' R9)
C3	23.79	187.50	007°16'16"	(23.79' R9)
C4	59.33	200.00	016°59'45"	(59.33' R9)
C5	11.85	212.50	003°11'39"	(11.85' R9)
C6	51.19	212.50	013°48'06"	(51.19' R9)
C7	298.69	450.00	038°01'51"	(298.69' R10)
C8	407.47	500.00	046°41'34"	(407.47' R11)
C9	395.97	550.00	041°15'02"	(395.97' R10)
C10	229.94	550.00	023°57'15"	(229.69' R12) (229.91' R7)
C11	69.75	450.00	008°52'50"	N/A
C12	10.80	550.00	001°07'32"	N/A
C13	79.22	3078.98	001°28'27"	(79.41' R12)
C14	39.27	2920.98	000°46'13"	(39.27' R12)
C15	148.69	2920.98	002°55'00"	(148.68' R4)
C16	404.04	500.00	046°18'00"	N/A
C17	3.42	500.00	000°23'32"	N/A
C20	240.80	550.00	025°05'06"	(239.81' R12)
C23	202.35	550.00	021°04'47"	(202.93' R21)

UNINCORPORATED TERRITORY

20010519745 O.R.
APN 304-171-08

PARCEL 1A,
9818/252-254 O.R.
SHOWN AS A6472-1 ON
STATE OF CALIF. APPRAISAL
MAP ORA-57-R22.4

STATE OF CALIFORNIA
SR57 FREEWAY
PARCEL 1-A, 9818/251-256

SHOWN AS PARCEL A6472-1 PER
STATE OF CALIFORNIA APPRAISAL
MAP ORA-57-R22.4

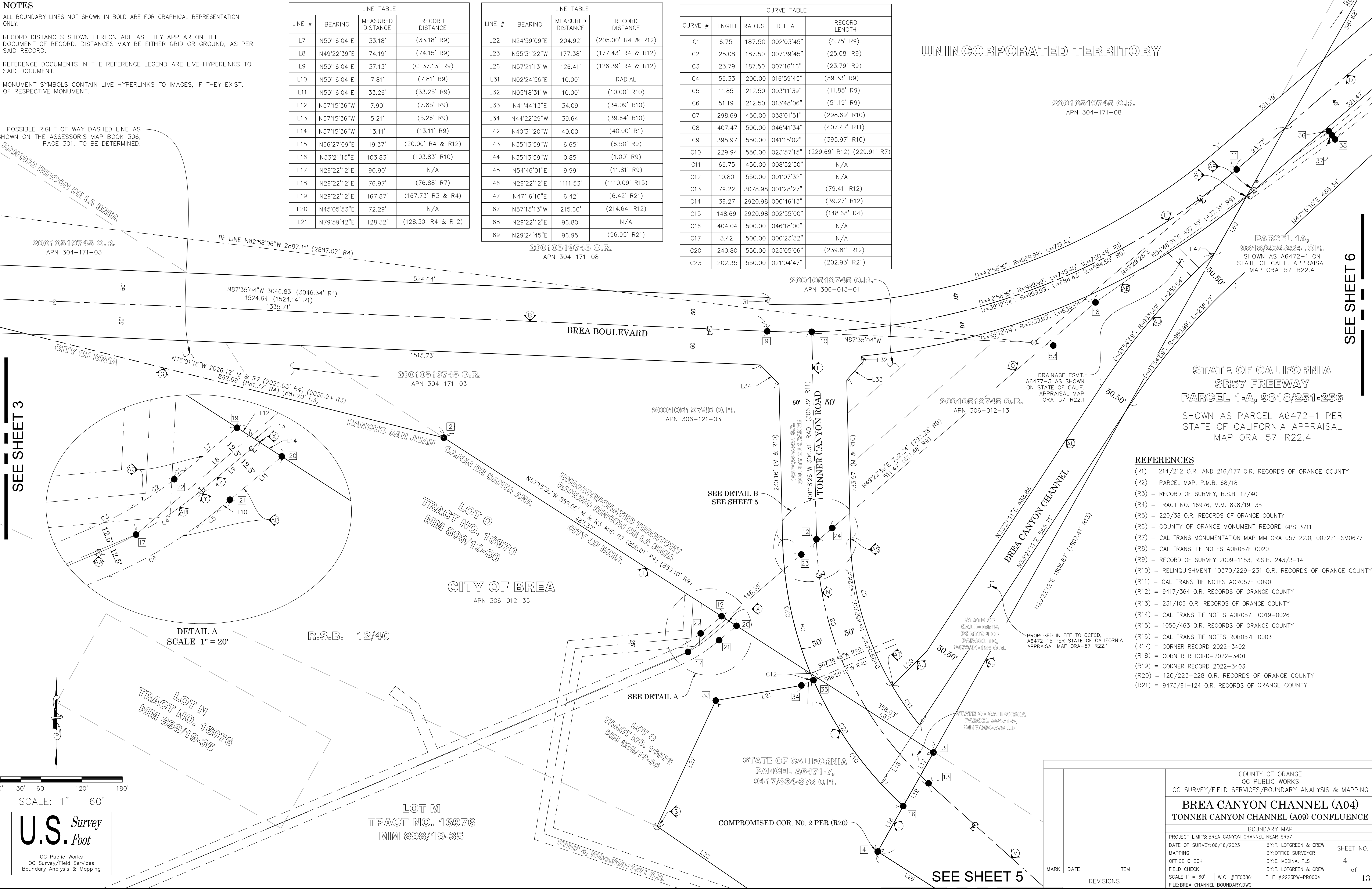
REFERENCES

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(R16) = CAL TRANS TIE NOTES ROR057E 0003
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(R18) = CORNER RECORD-2022-3401
(R19) = CORNER RECORD 2022-3403
(R20) = 120/223-228 O.R. RECORDS OF ORANGE COUNTY
(R21) = 9473/91-124 O.R. RECORDS OF ORANGE COUNTY

SEE SHEET 3

SEE SHEET 6

SEE SHEET 5



0' 30' 60' 120' 180'

SCALE: 1" = 60'

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

BREA CANYON CHANNEL (A04)
TONNER CANYON CHANNEL (A09) CONFLUENCE

BOUNDARY MAP

PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57

DATE OF SURVEY: 06/16/2023

BY: T. LOFGREEN & CREW

MAPING

BY: OFFICE SURVEYOR

OFFICE CHECK

BY: E. MEDINA, PLS

FIELD CHECK

BY: T. LOFGREEN & CREW

SCALE: 1" = 60' W.O. #EF03861

FILE #2233PW-PR0004

FILE: BREA_CHANNEL_BOUNDARY.DWG

SHEET NO.

4

of

13

REVISIONS

NOTES

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20010519745 O.R.
APN 304-171-08

20010519745 O.R.
APN 304-171-08

UNINCORPORATED TERRITORY

SEE SHEET 6

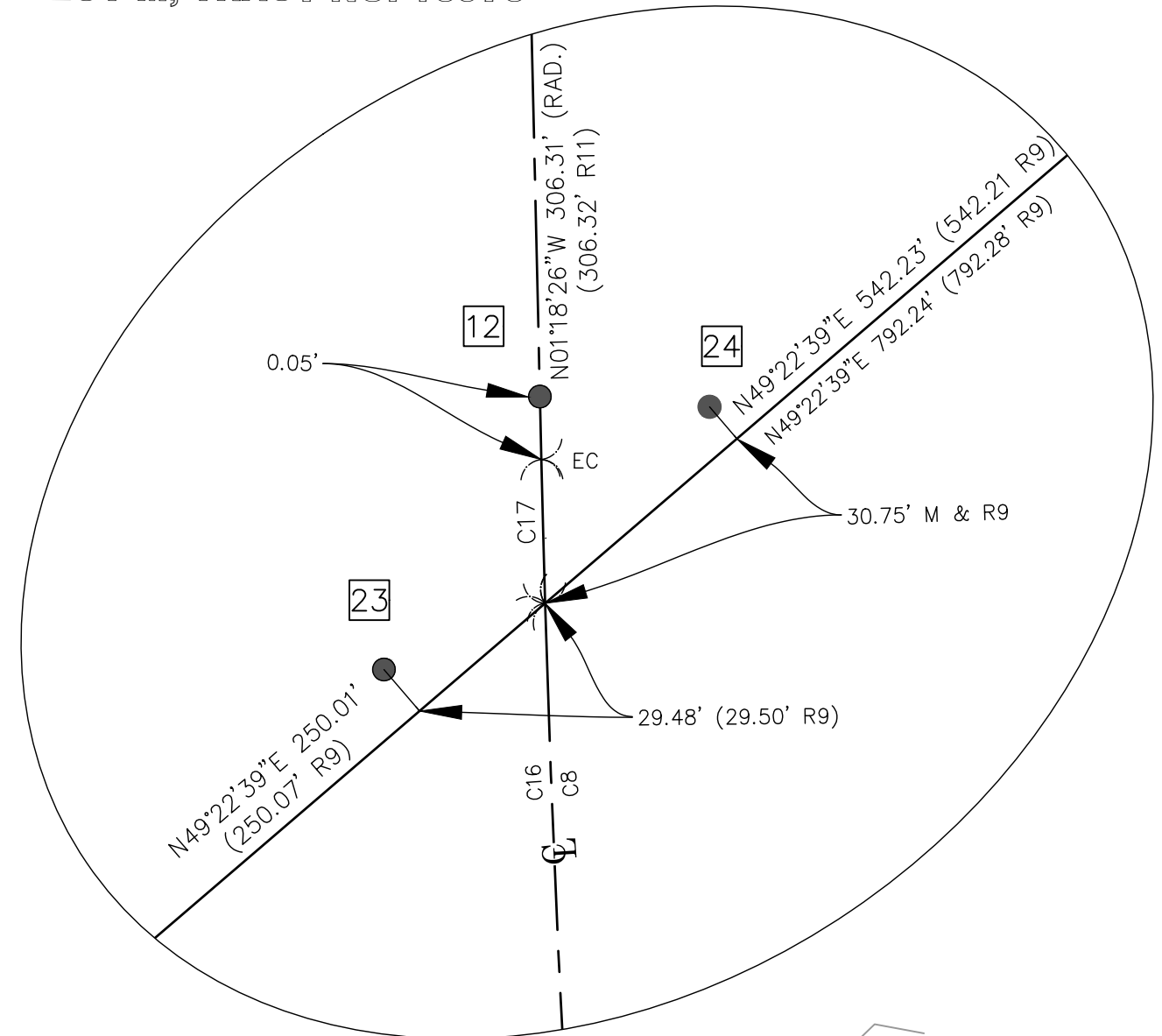
PARCEL 1A,
9818/252-254 .OR.
SHOWN AS A6472-1 ON
STATE OF CALIF. APPRAISAL
MAP ORA-57-R22.4

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L15	N66°27'09"E	19.37'	(20.00' R4 & R12)
L16	N33°21'15"E	103.83'	(103.83' R16)
L17	N29°22'12"E	90.90'	(90.58' R12)
L18	N29°22'12"E	76.97'	(77.11' R12)
L19	N29°22'12"E	167.87'	(167.73' R3 & R4)
L20	N45°05'53"E	72.29'	N/A
L21	N79°59'42"E	128.32'	(128.30' R4 & R12)
L22	N24°59'09"E	204.92'	(205.00' R4 & R12)
L23	N55°31'22"W	177.38'	(177.43' R4 & R12)
L24	N89°54'35"E	161.24'	(161.20' R4 & R12)
L25	N50°14'11"W	122.65'	(122.66' R4) (122.62' R12)
L26	N57°21'13"W	126.41'	(126.41' R12)
L27	N59°34'18"E	64.94'	(65.06' R4)(65.00' R12)
L28	N80°37'22"W	117.05'	(117.15' R4 & R12)
L29	N17°35'05"W	128.29'	(128.21' R4 & R12)
L30	N30°23'29"W	153.68'	(153.88' R12) (153.77' R4)
L31	N02°24'56"E	10.00'	RADIAL
L32	N05°18'31"W	10.00'	(10.00' R10)
L33	N41°44'13"E	34.09'	(34.09' R10)
L34	N44°22'29"W	39.64'	(39.64' R10)
L35	N42°03'33"E	95.99'	(95.99' R10)
L36	N42°03'33"E	49.61'	N/A
L37	N42°03'33"E	46.38'	N/A
L38	N42°03'33"E	63.34'	N/A
L39	N42°03'33"E	13.93'	N/A
L40	N42°03'33"E	49.41'	(49.41' R10)
L41	N48°00'00"W	14.98'	N/A
L47	N47°16'10"E	6.42'	(6.42' R21)
L67	N57°15'13"W	215.60'	(214.50' R12)

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	RECORD LENGTH
C1	6.75	187.50	002°03'45"	(6.75' R9)
C2	25.08	187.50	007°39'45"	(25.08' R9)
C3	23.79	187.50	007°16'16"	(23.79' R9)
C4	59.33	200.00	016°59'45"	(59.33' R9)
C5	11.85	212.50	003°11'39"	(11.85' R9)
C6	51.19	212.50	013°48'06"	(51.19' R9)
C7	298.69	450.00	038°01'51"	(298.69' R10)
C8	407.47	500.00	046°41'34"	(407.47' R11)
C9	395.97	550.00	041°15'02"	(395.97' R10)
C10	229.94	550.00	023°57'15"	(229.69' R12) (229.91' R7)
C11	69.75	450.00	008°52'50"	N/A
C12	10.80	550.00	001°07'32"	N/A
C13	79.22	3078.98	001°28'27"	(79.41' R12)
C14	39.27	2920.98	000°46'13"	(39.27' R12)
C15	148.69	2920.98	002°55'00"	(148.68' R4)
C16	404.04	500.00	046°18'00"	N/A
C17	3.42	500.00	000°23'32"	N/A
C20	240.80	550.00	025°05'06"	(239.81' R12)
C23	202.35	550.00	021°04'47"	(202.93' R21)

CITY OF BREA

LOT M, TRACT NO. 16976



DETAIL B
NOT TO SCALE

PARCEL 2,
10953/742 O.R.

STATE OF CALIFORNIA
SR57 FREEWAY
PARCEL A6471-4,
9417/364-378 O.R.

SHOWN AS PARCEL A6471-4,
PER STATE OF CALIFORNIA
APPRAISAL MAP ORA-57-R22.4

REFERENCES

- (R1) = 214/212 O.R. AND 216/177 O.R. RECORDS OF ORANGE COUNTY
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U.S. Survey
Foot

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

LEGEND

- FOUND MONUMENT AS NOTED
■ MONUMENT ESTABLISHED BY TIES
⊗ S.F.N. - SEARCHED, FOUND NOTHING
☒ S.F.N., ESTABLISHED BY TIES
⊠ CALC FROM RECORD MAP
R RECORD MAP
M MEASURED

LOT K
TRACT NO. 16976
MM 898/19-35

LOT F
TRACT NO. 16976
MM 898/19-35

CITY OF BREA

COMPROMISED
COR. NO. 1 PER (R20)

SCALE: 1" = 60'

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE		
			BOUNDARY MAP		
			PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57		
			DATE OF SURVEY: 06/16/2023	BY: T. LOFGREEN & CREW	SHEET NO. 5 of 13
			MAPPING	BY: OFFICE SURVEYOR	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: T. LOFGREEN & CREW	
MARK	DATE	ITEM	SCALE: 1" = 60'	W.O. #EFO3861	FILE # 2223PW-PR0004
REVISIONS			FILE: BREA_CHANNEL_BOUNDARY.DWG		

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(R8) = CAL TRANS TIE NOTES AOR057E 0020
(R9) = RECORD OF SURVEY 2009-1153, R.S.B. 243/3-14
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(R19) = CORNER RECORD 2022-3403
(R20) = 120/223-228 O.R. RECORDS OF ORANGE COUNTY
(R21) = 9473/91-124 O.R. RECORDS OF ORANGE COUNTY

U.S. Survey
Foot

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

UNINCORPORATED TERRITORY

SEE SHEET 7

DETAIL F
NOT TO SCALE

DETAIL C
SCALE 1" = 10"

STATE OF CALIFORNIA
SR57 FREEWAY
PARCEL 1-A, 918/251-256

SHOWN AS PARCEL A6472-1 PER
STATE OF CALIFORNIA APPRAISAL
MAP ORA-57-R22.4

200400664230 O.R.
APN 306-021-02

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD LENGTH
L42	N40°31'20"W	40.00'	(40.00' R1)
L43	N35°13'59"W	6.65'	(6.50' R9)
L44	N35°13'59"W	0.85'	(1.00' R9)
L45	N54°46'01"E	9.99'	(11.81' R9)
L46	N29°22'12"E	1111.53'	(1110.09' R15)
L47	N47°16'10"E	6.42'	N/A
L48	N51°05'30"E	514.87'	(515.00' R15)
L61	N40°03'50"W	40.00'	(40.00' R1)
L68	N29°22'12"E	96.80'	N/A
L69	N29°24'45"E	96.95'	(96.95' R21)
L70	N47°16'10"E	6.42'	(6.42' R21)
L71	N47°16'10"E	0.25'	N/A

CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	RECORD LENGTH
C18	3.02'	1039.99	000°09'59"	(2.47' R9)
C19	10.02'	1039.99	000°33'08"	N/A
C21	15.19'	1039.99	000°50'13"	N/A
C22	14.77'	1039.99	000°48'49"	(14.77' R21)

LEGEND

- FOUND MONUMENT AS NOTED
- MONUMENT ESTABLISHED BY TIES
- ⊗ S.F.N. - SEARCHED, FOUND NOTHING
- ⊠ S.F.N., ESTABLISHED BY TIES
- C CALC FROM RECORD MAP
- R RECORD MAP
- M MEASURED

SCALE: 1" = 60'

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

BREA CANYON CHANNEL (A04)
TONNER CANYON CHANNEL (A09) CONFLUENCE

BOUNDARY MAP

PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57

DATE OF SURVEY: 06/16/2023

BY: T. LOFGREEN & CREW

MAPING

BY: OFFICE SURVEYOR

OFFICE CHECK

BY: E. MEDINA, PLS

FIELD CHECK

BY: T. LOFGREEN & CREW

SCALE: 1" = 60' W.O. #EF03861

FILE #2223FW-PR0004

FILE: BREA CHANNEL BOUNDARY.DWG

SHEET NO.

6

of

13

NOTES

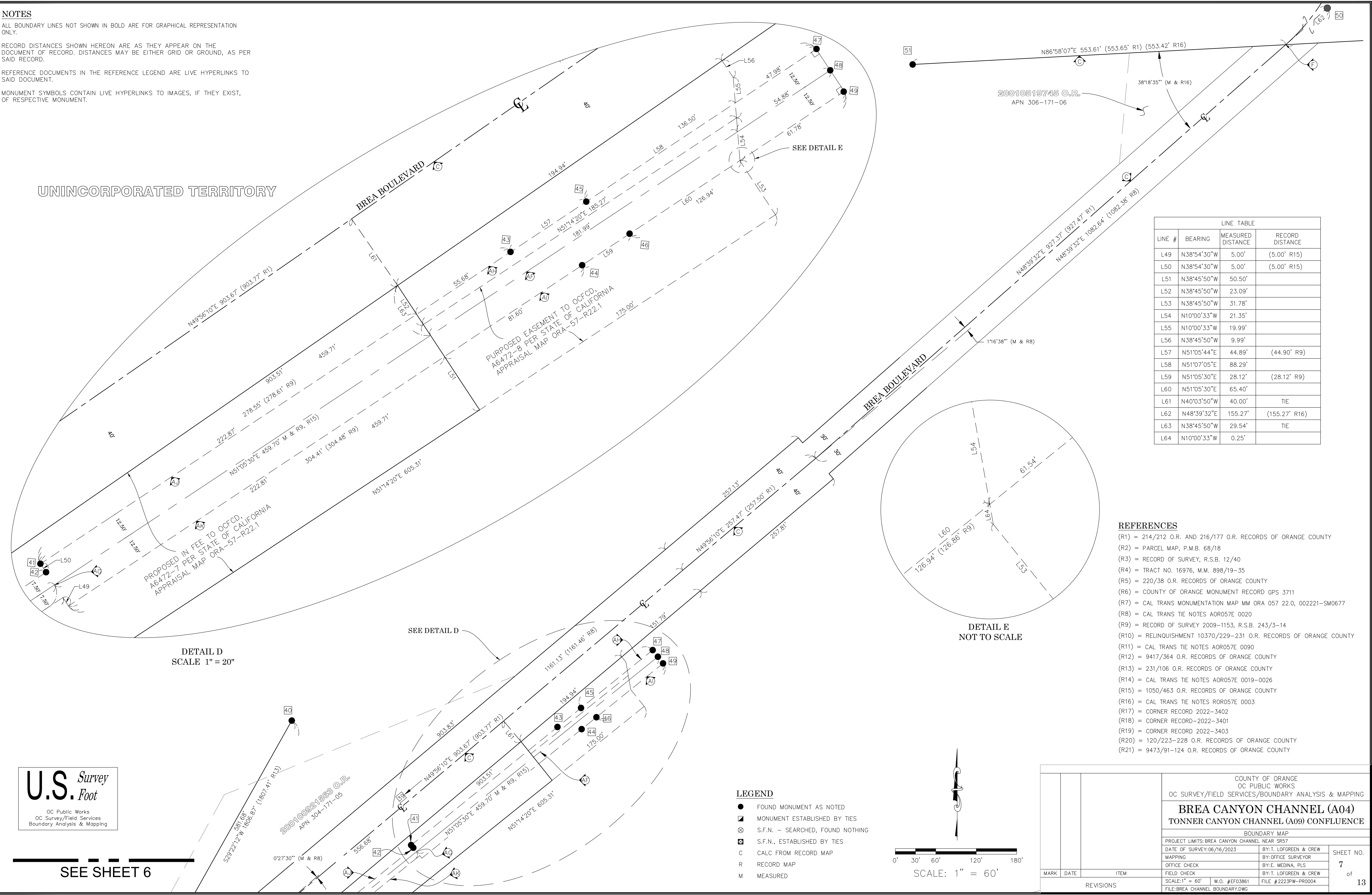
ALL BOUNDARY LINES NOT SHOWN IN BOLD ARE FOR GRAPHICAL REPRESENTATION ONLY.

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.

UNINCORPORATED TERRITORY



DETAIL D
SCALE 1" = 20"

DETAIL E
NOT TO SCALE

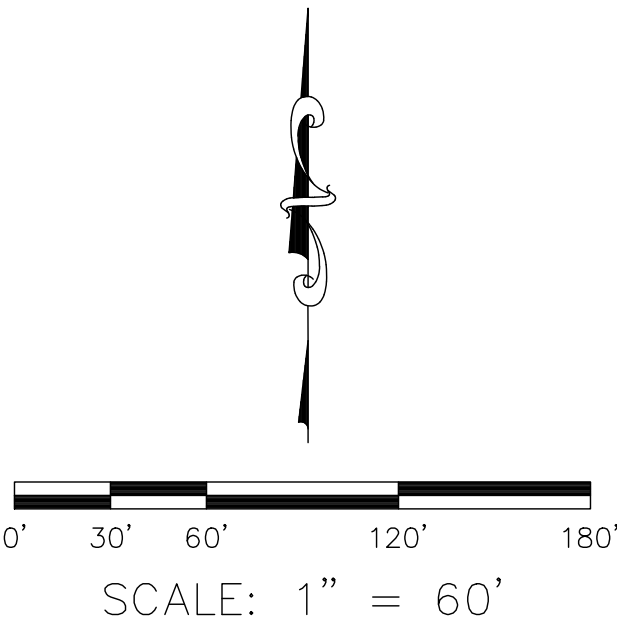
LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L49	N38°54'30"W	5.00'	(5.00' R15)
L50	N38°54'30"W	5.00'	(5.00' R15)
L51	N38°45'50"W	50.50'	
L52	N38°45'50"W	23.09'	
L53	N38°45'50"W	31.78'	
L54	N10°00'33"W	21.35'	
L55	N10°00'33"W	19.99'	
L56	N38°45'50"W	9.99'	
L57	N51°05'44"E	44.89'	(44.90' R9)
L58	N51°07'05"E	88.29'	
L59	N51°05'30"E	28.12'	(28.12' R9)
L60	N51°05'30"E	65.40'	
L61	N40°03'50"W	40.00'	TIE
L62	N48°39'32"E	155.27'	(155.27' R16)
L63	N38°45'50"W	29.54'	TIE
L64	N10°00'33"W	0.25'	

REFERENCES

- (R1) = 214/212 O.R. AND 216/177 O.R. RECORDS OF ORANGE COUNTY
(R2) = PARCEL MAP, P.M.B. 68/18
(R3) = RECORD OF SURVEY, R.S.B. 12/40
(R4) = TRACT NO. 16976, M.M. 898/19-35
(R5) = 220/38 O.R. RECORDS OF ORANGE COUNTY
(R6) = COUNTY OF ORANGE MONUMENT RECORD GPS 3711
(R7) = CAL TRANS MONUMENTATION MAP MM ORA 057 22.0, 002221-SM0677
(R8) = CAL TRANS TIE NOTES AOR057E 0020
(R9) = RECORD OF SURVEY 2009-1153, R.S.B. 243/3-14
(R10) = RELINQUISHMENT 10370/229-231 O.R. RECORDS OF ORANGE COUNTY
(R11) = CAL TRANS TIE NOTES AOR057E 0090
(R12) = 9417/364 O.R. RECORDS OF ORANGE COUNTY
(R13) = 231/106 O.R. RECORDS OF ORANGE COUNTY
(R14) = CAL TRANS TIE NOTES AOR057E 0019-0026
(R15) = 1050/463 O.R. RECORDS OF ORANGE COUNTY
(R16) = CAL TRANS TIE NOTES ROR057E 0003
(R17) = CORNER RECORD 2022-3402
(R18) = CORNER RECORD-2022-3401
(R19) = CORNER RECORD 2022-3403
(R20) = 120/223-228 O.R. RECORDS OF ORANGE COUNTY
(R21) = 9473/91-124 O.R. RECORDS OF ORANGE COUNTY

LEGEND

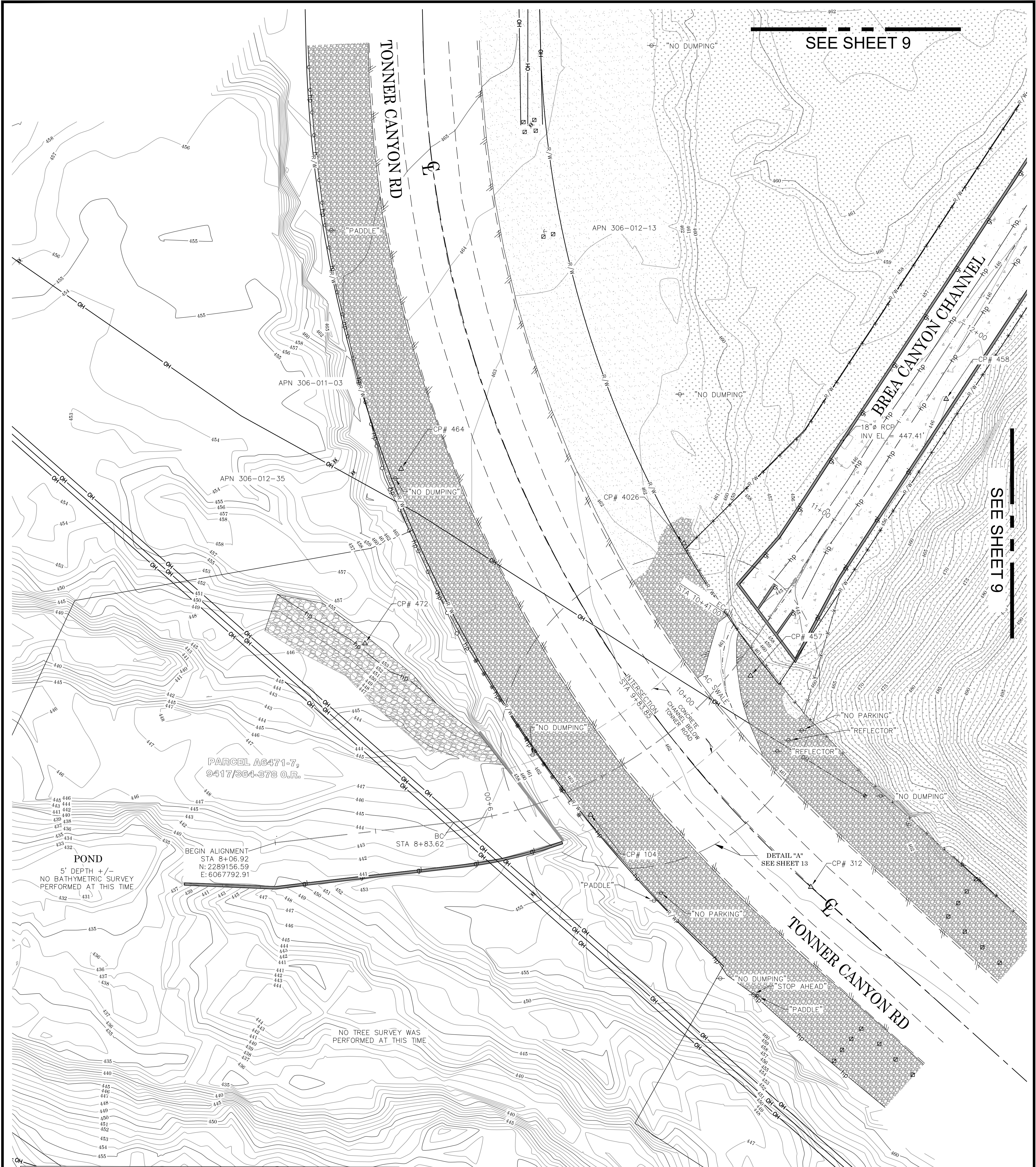
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- MONUMENT ESTABLISHED BY TIES
- ⊗ S.F.N. - SEARCHED, FOUND NOTHING
- ⊠ S.F.N., ESTABLISHED BY TIES
- C CALC FROM RECORD MAP
- R RECORD MAP
- M MEASURED



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

SEE SHEET 6

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE			
BOUNDARY MAP			
PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57			
DATE OF SURVEY: 06/16/2023	BY: T. LOFGREEN & CREW	SHEET NO. 7 of 13	
MAPPING	BY: OFFICE SURVEYOR		
OFFICE CHECK	BY: E. MEDINA, PLS		
FIELD CHECK	BY: T. LOFGREEN & CREW		
SCALE: 1" = 60'	W.O. #EF03861		
FILE: BREA CHANNEL BOUNDARY.DWG	FILE: #2223PW-PR0004	REVISIONS	



LEGEND

LINE PATTERN KEY

	Block Wall
	Centerline
	Concrete Wall
	Edge of Concrete
	Edge of Asphalt Pavement
	Fence Chainlink
	Fence Pipe and Cable
	Flowline
	Grade Line
	Guard Rail
	Hinge Point
	Parcel Line
	Striping

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
FL	Flowline
FD	Found
INV	Invert
IP	Iron Pipe
RCP	Reinforced Concrete Pipe
TC	Top of Curb
TW	Top of Wall

AREA PATTERN KEY

	Concrete
	Dirt
	Mixed Vegetation
	Gravel
	Rip Rap

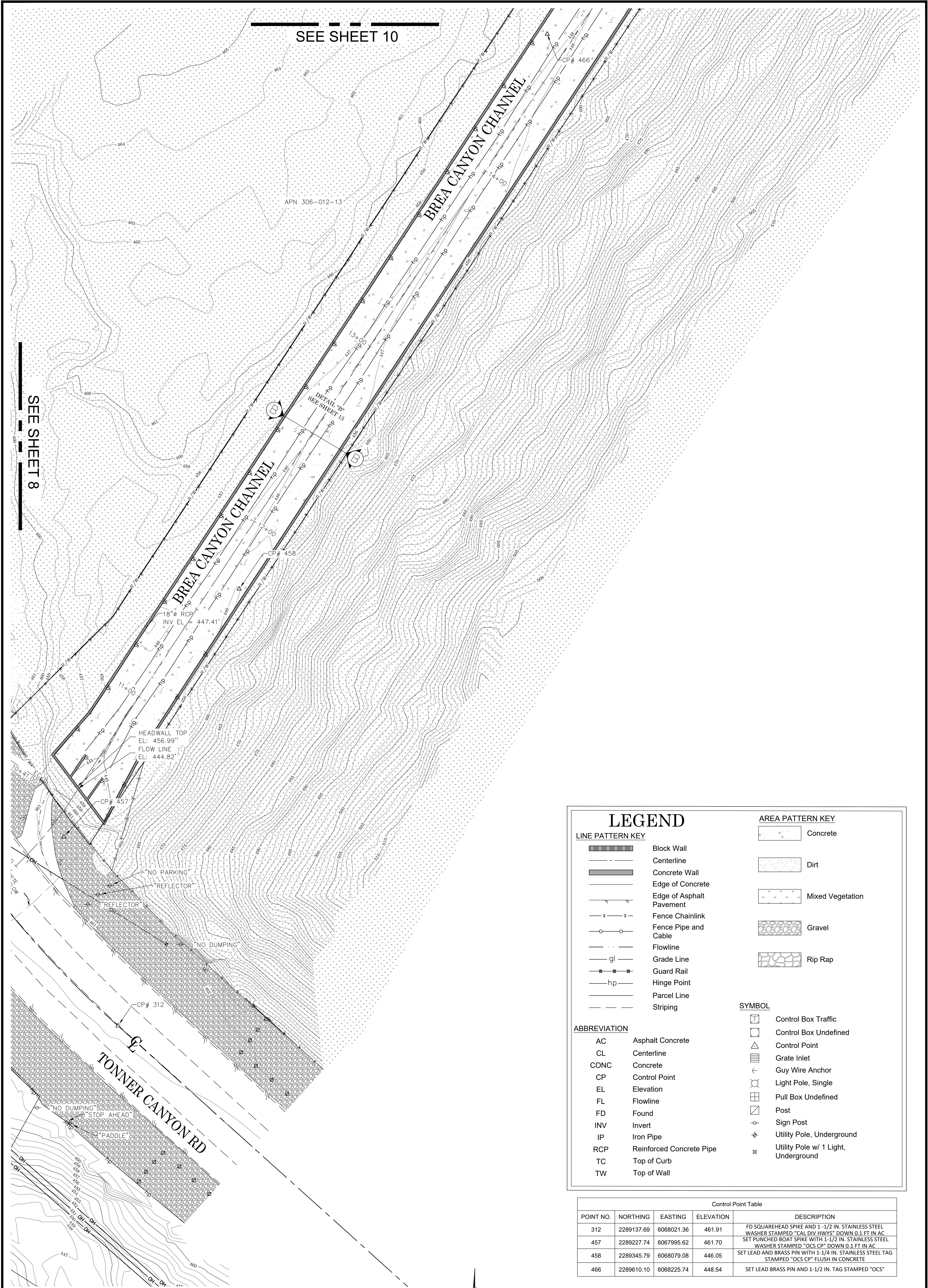
SYMBOL

	Control Box Traffic
	Control Box Undefined
	Control Point
	Grate Inlet
	Guy Wire Anchor
	Light Pole, Single
	Pull Box Undefined
	Post
	Sign Post
	Utility Pole, Underground
	Utility Pole w/ 1 Light, Underground

Control Point Table				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
104	2289168.50	6067927.45	462.81	SET 5/8 IN. REBAR WITH 1-1/2 IN. PUNCHED ALUMINUM CAP STAMPED "OCS TCP" DOWN 0.3 FT IN DIRT
312	2289137.69	6068021.36	461.91	FD SQUAREHEAD SPIKE AND 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "CAL DIV HWYS" DOWN 0.1 FT IN AC
454	2288924.08	6067978.67	462.32	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" FLUSH IN DIRT
457	2289227.74	6067995.62	461.70	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" DOWN 0.1 FT IN AC
458	2289345.79	6068079.08	446.05	SET LEAD AND BRASS PIN WITH 1-1/4 IN. STAINLESS STEEL TAG STAMPED "OCS CP" FLUSH IN CONCRETE
464	2289316.00	6067846.61	463.67	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" FLUSH IN DIRT
472	2289241.54	6067831.18	453.54	SET MAG NAIL AND 1-1/2 IN. WASHER STAMPED "OCS"
4026	2289284.23	6067967.27	461.62	SET 1 IN. IRON PIPE WITH BRASS 3/4 IN. OCS TIE TAG IN DIRT

NOTE:
TOPOGRAPHY OUTSIDE CONCRETE CHANNEL
WAS DERIVED FROM AERIAL LIDAR

MARK		DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
				BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE				
				TOPOGRAPHIC SHEET				
				PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57				
				DATE OF SURVEY: 06/16/2023	BY: T. LOFGREEN & CREW	SHEET NO. 8 of 13		
				MAPPING	BY: R. CASANAVE			
				OFFICE CHECK	BY: E. MEDINA, PLS	FILE #2223PW-PR0004		
				FIELD CHECK	BY: T. LOFGREEN & CREW			
				SCALE: 1"=20'	W.O. #EF03861	FILE: BREA CANYON CHANNEL 2023.DWG		
				REVISIONS				



LEGEND

LINE PATTERN KEY

- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Guard Rail
- Hinge Point
- Parcel Line
- Striping

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
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FD	Found
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IP	Iron Pipe
RCP	Reinforced Concrete Pipe
TC	Top of Curb
TW	Top of Wall

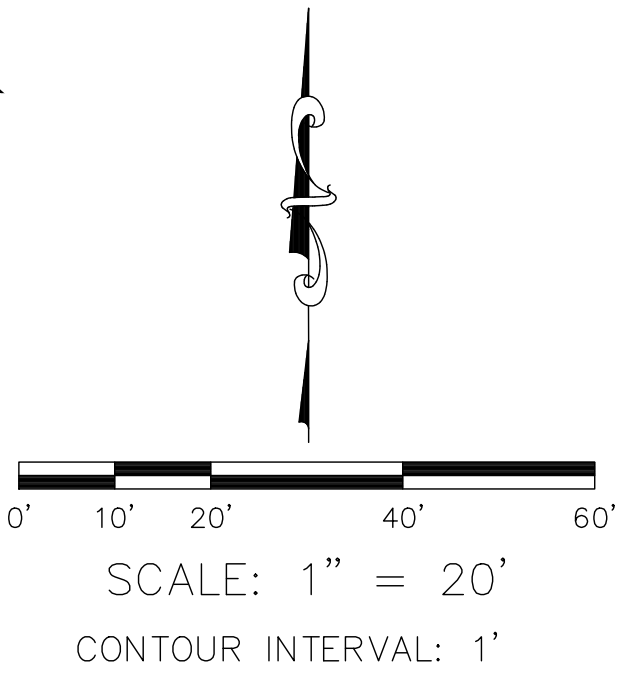
AREA PATTERN KEY

- Concrete
- Dirt
- Mixed Vegetation
- Gravel
- Rip Rap

SYMBOL

- Control Box Traffic
- Control Box Undefined
- Control Point
- Gate Inlet
- Guy Wire Anchor
- Light Pole, Single
- Pull Box Undefined
- Post
- Sign Post
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground

Control Point Table				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
312	2289137.69	6068021.36	461.91	FD SQUAREHEAD SPIKE AND 1 -1/2 IN. STAINLESS STEEL WASHER STAMPED "CAL DIV HWYS" DOWN 0.1 FT IN AC
457	2289227.74	6067995.62	461.70	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" DOWN 0.1 FT IN AC
458	2289345.79	6068079.08	446.05	SET LEAD AND BRASS PIN WITH 1-1/4 IN. STAINLESS STEEL TAG STAMPED "OCS CP" FLUSH IN CONCRETE
466	2289610.10	6068225.74	448.54	SET LEAD BRASS PIN AND 1-1/2 IN. TAG STAMPED "OCS"



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE							
TOPOGRAPHIC SHEET							
PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57							
MARK	DATE	ITEM	DATE OF SURVEY: 06/16/2023		BY: T. LOFGREEN & CREW		SHEET NO. 9 of 13
			MAPPING		BY: R. CASANAVE		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: T. LOFGREEN & CREW		
			SCALE: 1"=20'		W.O. #EF03861		FILE # 2223PW-PR0004
			REVISIONS				

LEGEND

LINE PATTERN KEY

- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Guard Rail
- Hinge Point
- Parcel Line
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Mixed Vegetation
- Gravel
- Rip Rap

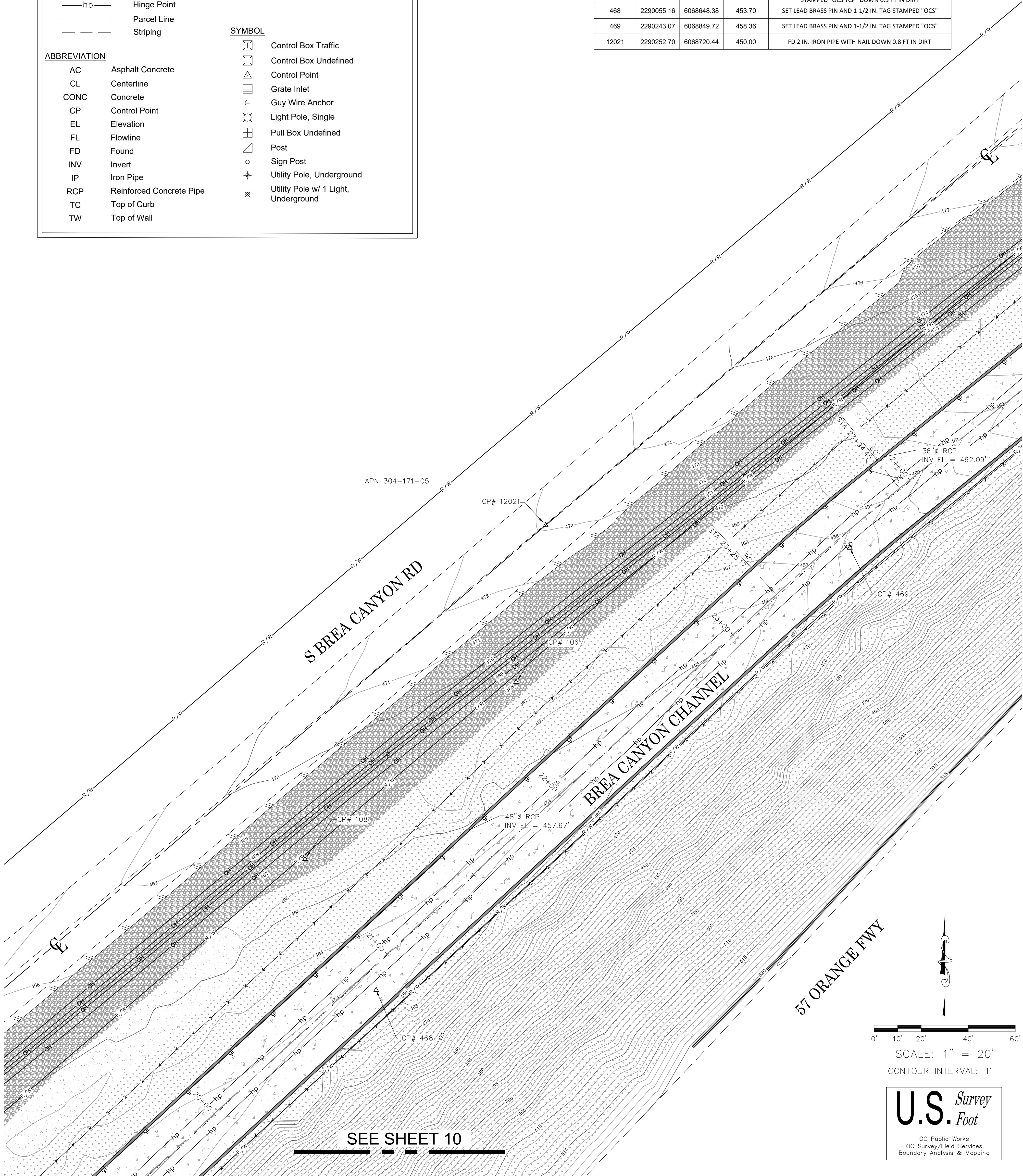
SYMBOL

- Control Box Traffic
- Control Box Undefined
- Control Point
- Grate Inlet
- Guy Wire Anchor
- Light Pole, Single
- Pull Box Undefined
- Post
- Sign Post
- Utility Pole, Underground
- Utility Pole w/ 1 Light, Underground

ABBREVIATION

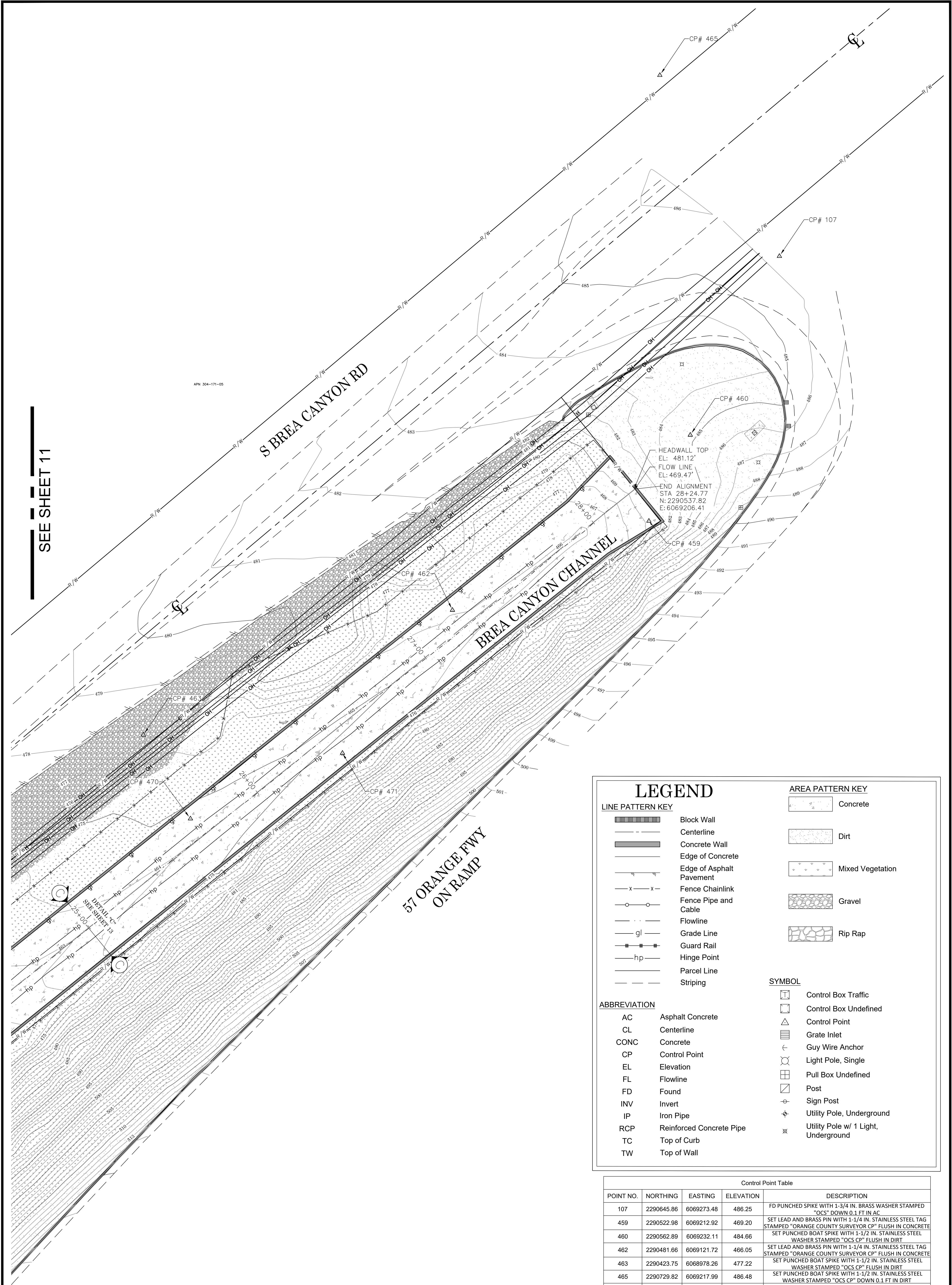
- AC Asphalt Concrete
- CL Centerline
- CONC Concrete
- CP Control Point
- EL Elevation
- FL Flowline
- FD Found
- INV Invert
- IP Iron Pipe
- RCP Reinforced Concrete Pipe
- TC Top of Curb
- TW Top of Wall

Control Point Table				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
106	2290186.08	6068707.85	467.96	SET 5/8 IN. REBAR WITH 1-1/2 IN. PUNCHED ALUMINUM CAP STAMPED "OCS TCP" DOWN 0.3 FT IN DIRT
108	2290110.75	6068618.16	466.48	SET 5/8 IN. REBAR WITH 1-1/2 IN. PUNCHED ALUMINUM CAP STAMPED "OCS TCP" DOWN 0.3 FT IN DIRT
468	2290055.16	6068648.38	453.70	SET LEAD BRASS PIN AND 1-1/2 IN. TAG STAMPED "OCS"
469	2290243.07	6068849.72	458.36	SET LEAD BRASS PIN AND 1-1/2 IN. TAG STAMPED "OCS"
12021	2290252.70	6068720.44	450.00	FD 2 IN. IRON PIPE WITH NAIL DOWN 0.8 FT IN DIRT



SEE SHEET 10

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE	
			TOPOGRAPHIC SHEET	
			PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57	
			DATE OF SURVEY: 06/16/2023	BY: T. LOFGREEN & CREW
			MAPPING	BY: R. CASANAVE
			OFFICE CHECK	BY: E. MEDINA, PLS
			FIELD CHECK	BY: T. LOFGREEN & CREW
			SCALE: 1"=20'	W.O. #EF03861
			FILE: #2223PW-PR0004	
			FILE: BREA_CANYON_CHANNEL_2023.DWG	
MARK	DATE	ITEM		
REVISIONS				
			SHEET NO. 11 of 13	



SEE SHEET 11

LEGEND

LINE PATTERN KEY

- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Pipe and Cable
- Flowline
- Grade Line
- Guard Rail
- Hinge Point
- Parcel Line
- Striping

ABBREVIATION

AC	Asphalt Concrete
CL	Centerline
CONC	Concrete
CP	Control Point
EL	Elevation
FL	Flowline
FD	Found
INV	Invert
IP	Iron Pipe
RCP	Reinforced Concrete Pipe
TC	Top of Curb
TW	Top of Wall

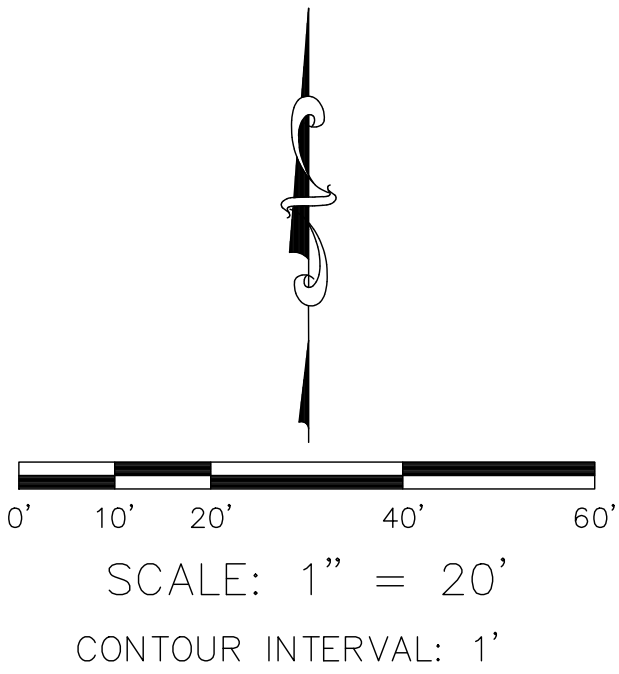
AREA PATTERN KEY

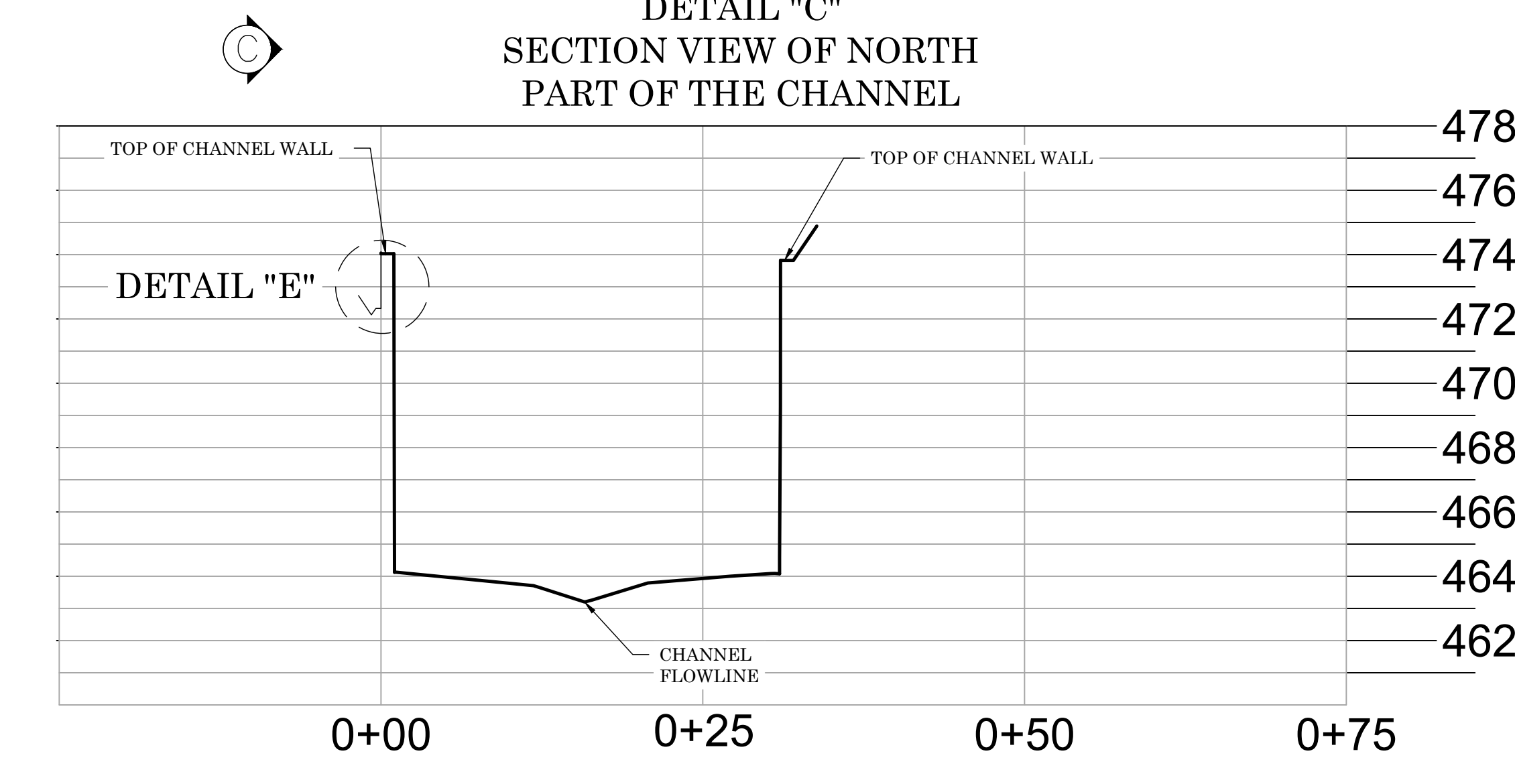
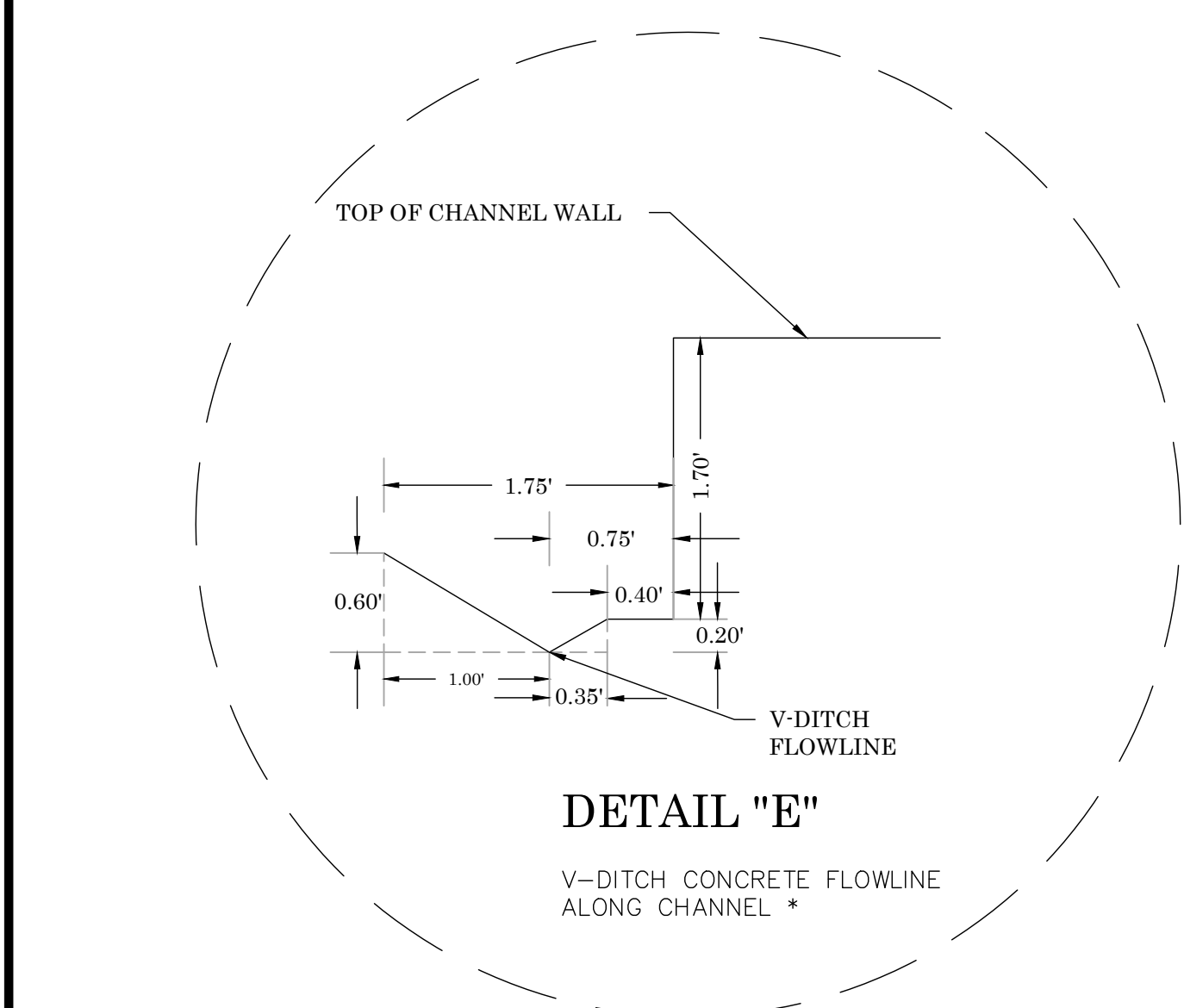
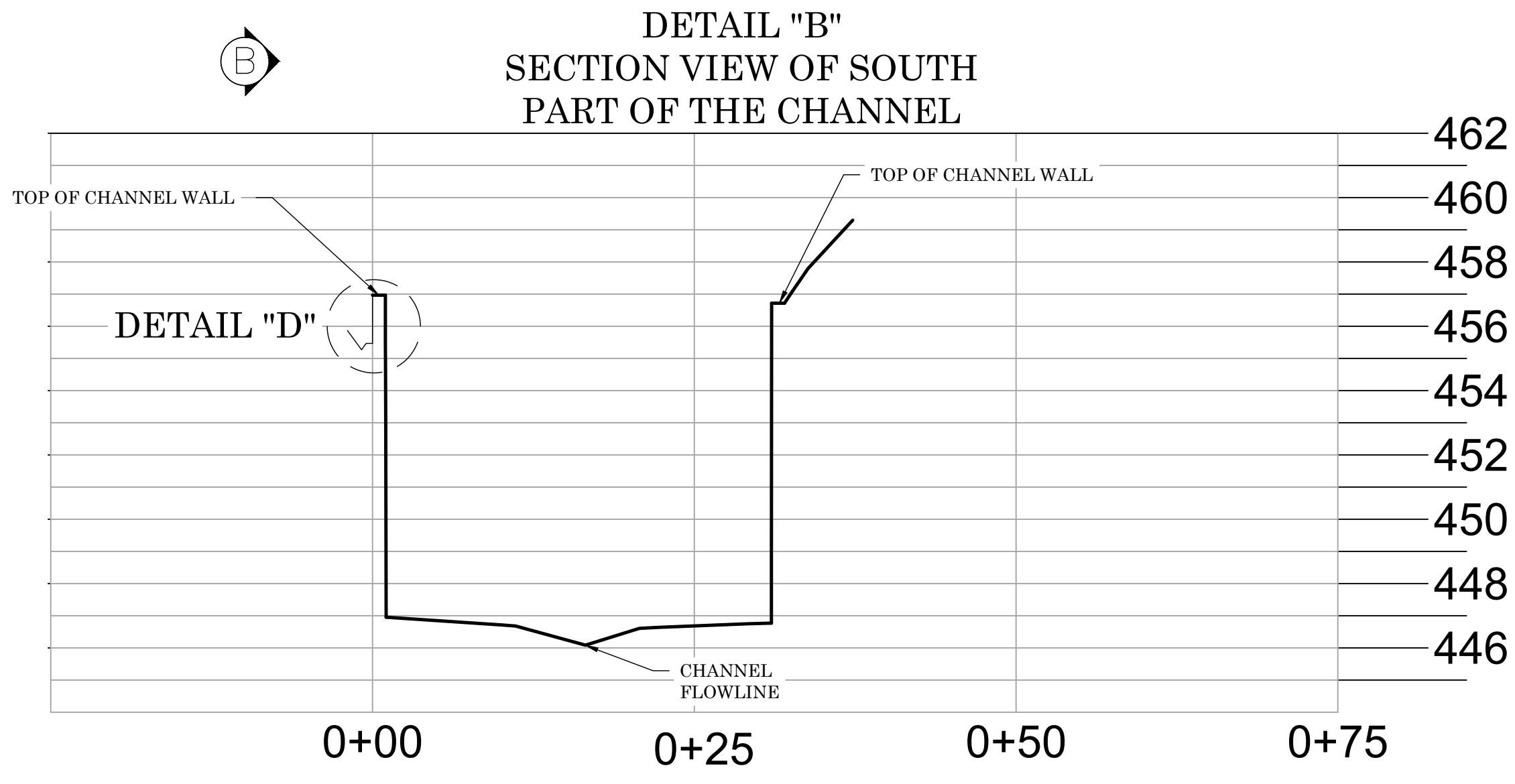
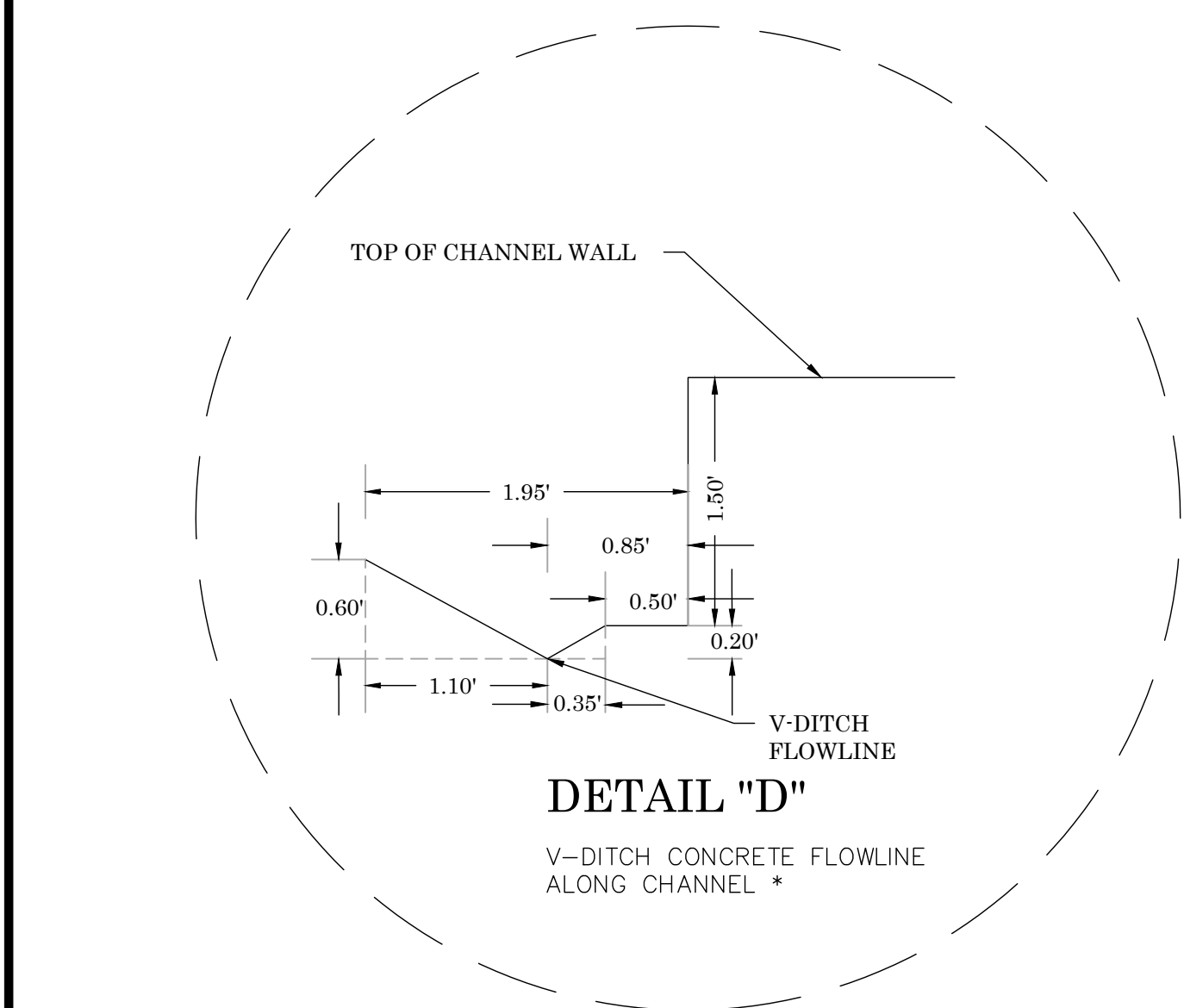
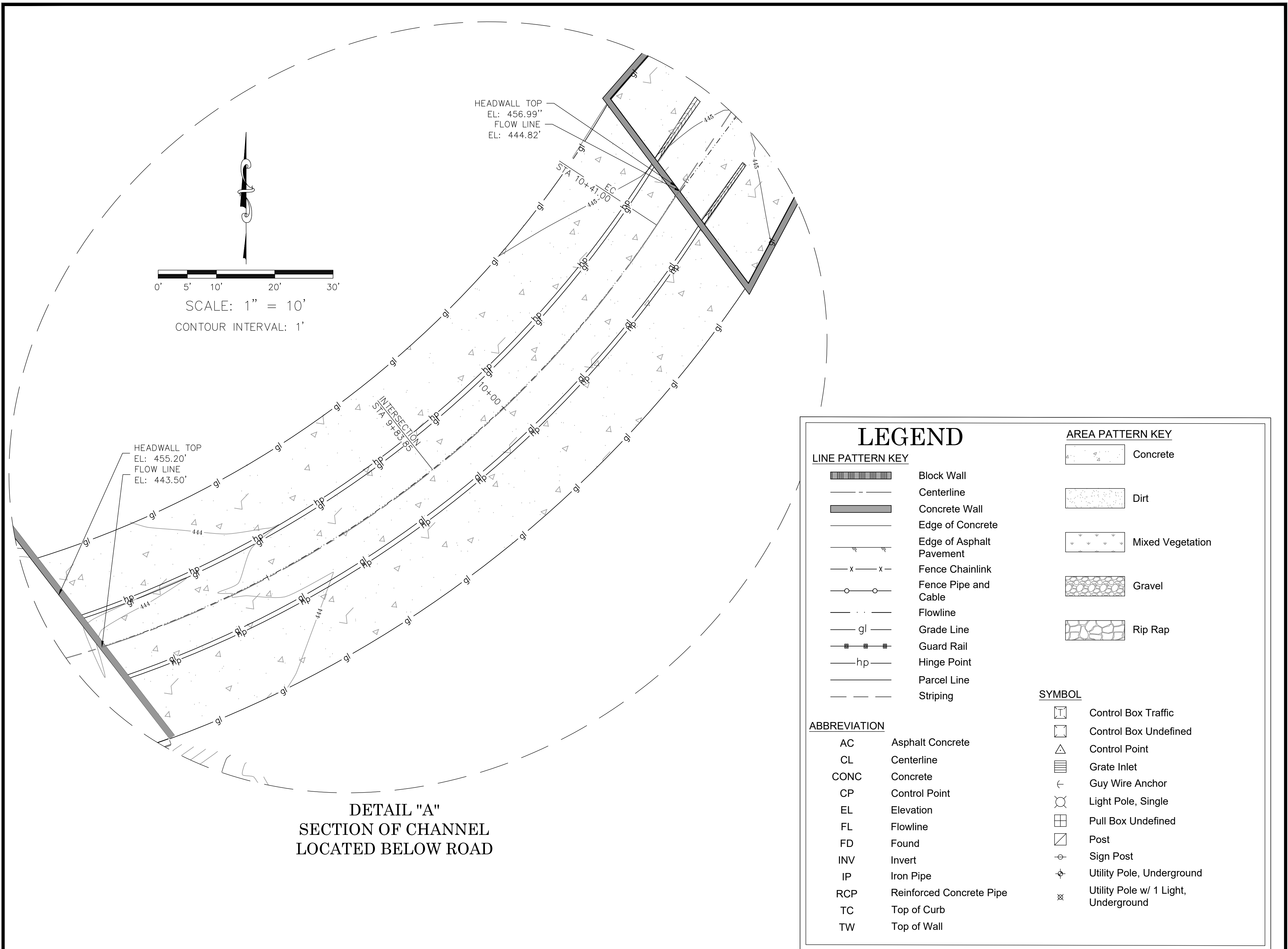
Concrete
Dirt
Mixed Vegetation
Gravel
Rip Rap

SYMBOL

Control Box Traffic
Control Box Undefined
Control Point
Grate Inlet
Guy Wire Anchor
Light Pole, Single
Pull Box Undefined
Post
Sign Post
Utility Pole, Underground
Utility Pole w/ 1 Light, Underground

Control Point Table				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
107	2290645.86	6069273.48	486.25	FD PUNCHED SPIKE WITH 1-3/4 IN. BRASS WASHER STAMPED "OCS" DOWN 0.1 FT IN AC
459	2290522.98	6069212.92	469.20	SET LEAD AND BRASS PIN WITH 1-1/4 IN. STAINLESS STEEL TAG STAMPED "ORANGE COUNTY SURVEYOR CP" FLUSH IN CONCRETE
460	2290562.89	6069232.11	484.66	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" FLUSH IN DIRT
462	2290481.66	6069121.72	466.05	SET LEAD AND BRASS PIN WITH 1-1/4 IN. STAINLESS STEEL TAG STAMPED "ORANGE COUNTY SURVEYOR CP" FLUSH IN CONCRETE
463	2290423.75	6068978.26	477.22	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" FLUSH IN DIRT
465	2290729.82	6069217.99	486.48	SET PUNCHED BOAT SPIKE WITH 1-1/2 IN. STAINLESS STEEL WASHER STAMPED "OCS CP" DOWN 0.1 FT IN DIRT
470	2290384.87	6069000.12	464.82	SET LEAD BRASS PIN AND 1-1/2 IN. TAG STAMPED "OCS"
471	2290415.32	6069070.68	465.49	SET LEAD BRASS PIN AND 1-1/2 IN. TAG STAMPED "OCS"

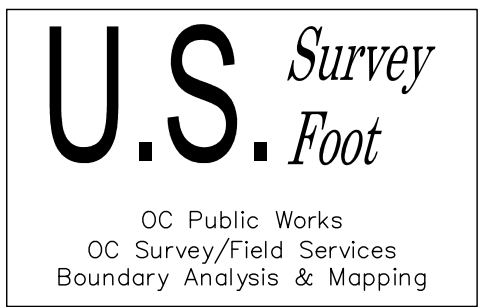




DETAIL "D" & DETAIL "E"

LOOKING NORTH

* FIELD DIMENSIONS OF V-DITCH CONCRETE FLOWLINES ARE BURIED BY SEDIMENT ALONG THE ENTIRE CHANNEL ON BOTH SIDES. THE WESTERLY PORTION IS SHOWN BY DETAIL HEREON BY TAKING FIELD SAMPLE MEASUREMENTS AT THE DESIGNATED LOCATIONS. THE EASTERLY SIDE WAS NOT MEASURED DUE TO ACCESS AND ALSO BEING BURRIED BY SEDIMENT.



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		BREA CANYON CHANNEL (A04) TONNER CANYON CHANNEL (A09) CONFLUENCE			
		DETAIL SHEET			
		PROJECT LIMITS: BREA CANYON CHANNEL NEAR SR57			
		DATE OF SURVEY: 06/16/2023			
		BY: T. LOFGREEN & CREW		SHEET NO. 13 of 13	
		MAPPING			
		OFFICE CHECK			
		FIELD CHECK			
MARK	DATE	ITEM	SCALE: N.T.S.	W.O. #EF03861	FILE #2223PW-PR0004
REVISIONS			FILE: BREA_CANYON_CHANNEL_2023.DWG		