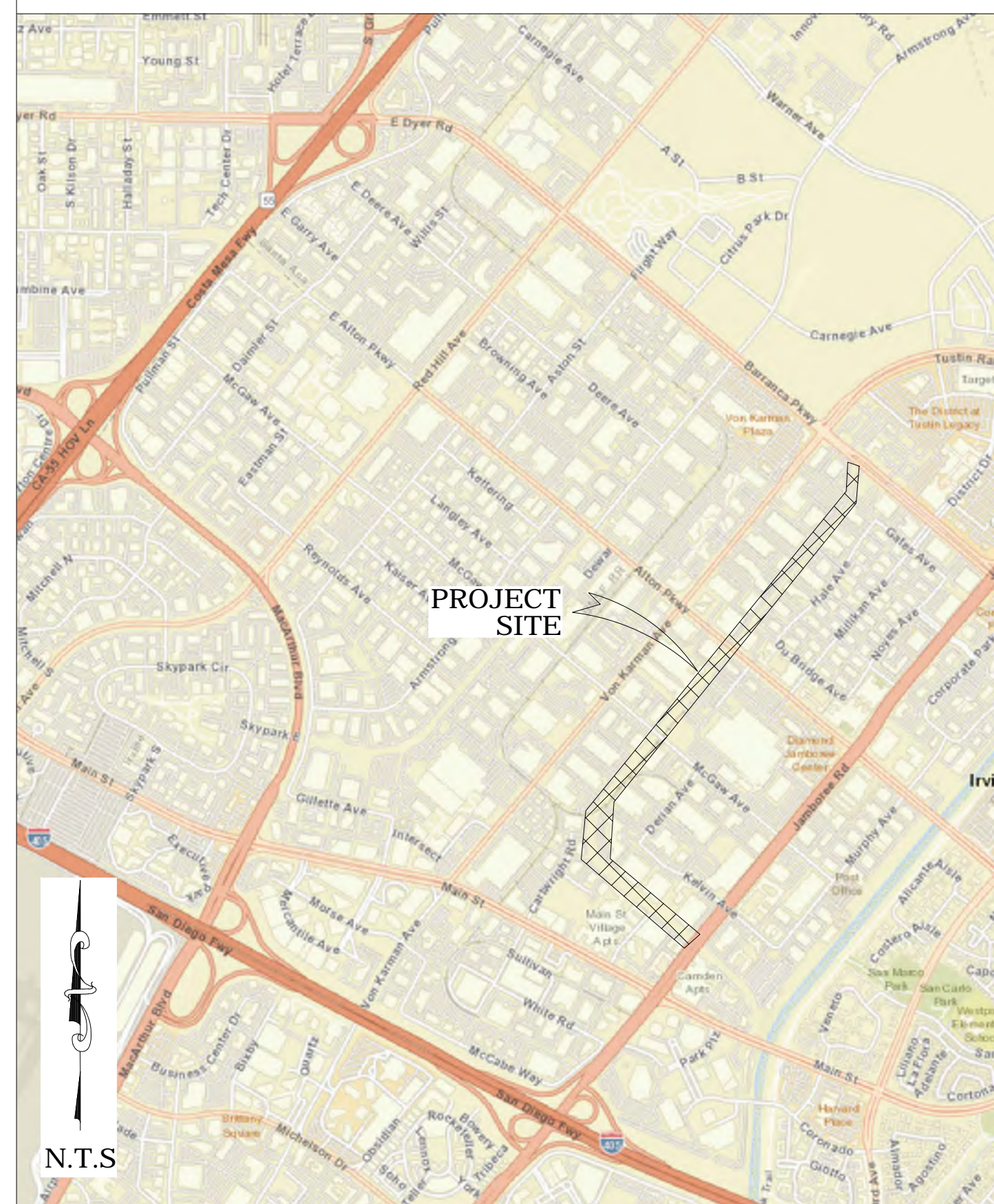


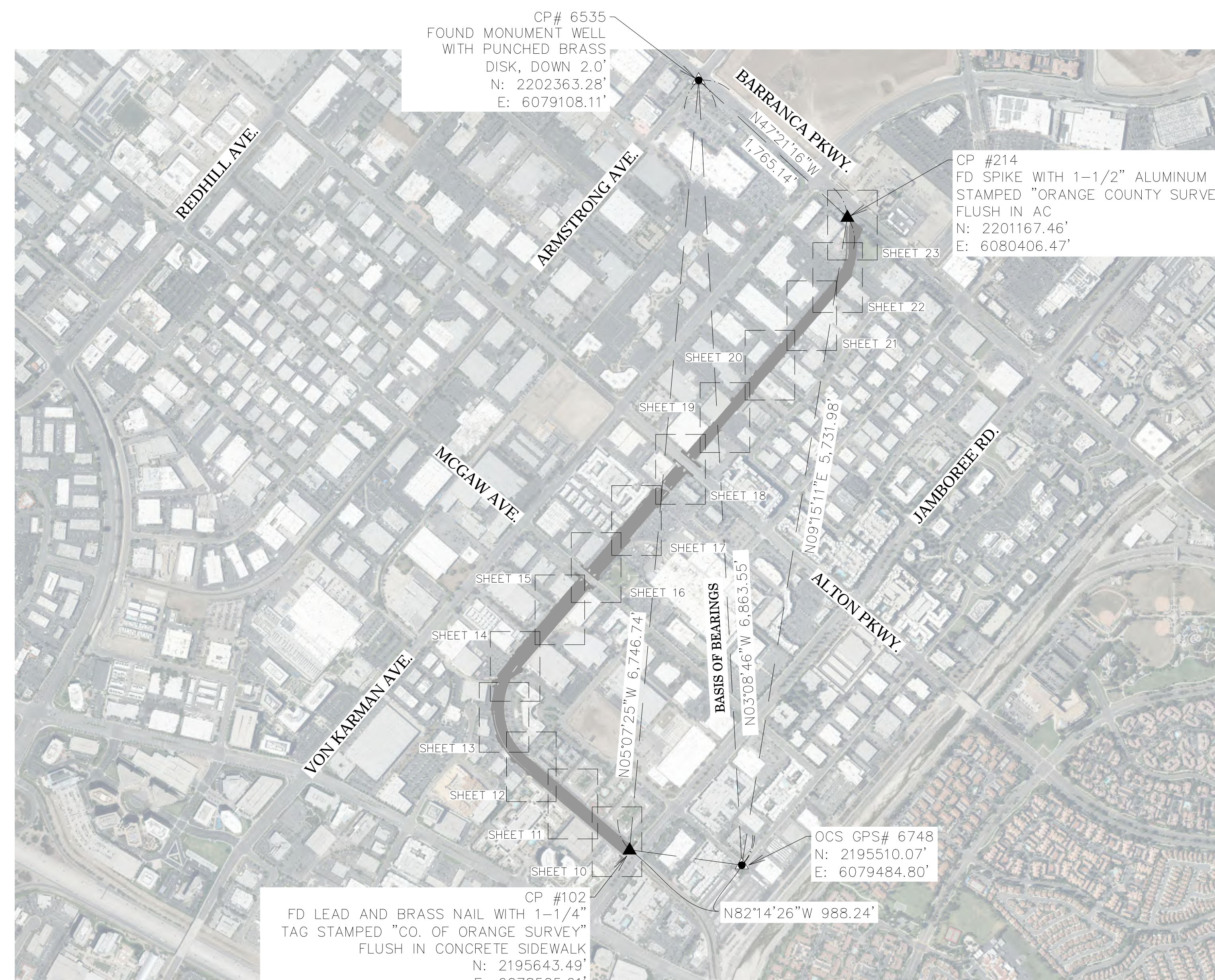
CHANNEL REPAIR



N.T.S

U.S. *Survey*
Foot

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



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 O.C.S. HORIZONTAL CONTROL STATIONS CP NO. 6535 AND GPS NO. 6748 BEING NORTH 03°08'46" WEST PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR

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 1.00002316.

THIS COMBINATION FACTOR WAS HELD AT: CP# 201
N: 2199005.27' E: 6079022.00' EL: 40.04'

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

O.C.S. BM. 3GG-5-85 ELEV. = 46.166' YEAR LEVELED: 2003
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)

DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3GG-5-85", SET IN THE EASTERLY END OF A CONCRETE WINGWALL. MONUMENT IS LOCATED IN THE EASTERLY CORNER OF THE INTERSECTION OF BARRANCA PARKWAY AND THE PETERS CANYON CHANNEL CROSSING, 60 FT. SOUTHEASTERLY OF THE CENTERLINE OF THE FLOOD CHANNEL AND 67 FT. NORTHEASTERLY OF THE CENTERLINE OF BARRANCA. MONUMENT IS SET LEVEL WITH THE TOP OF THE WINGWALL.

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC
RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR
BOUNDARY PURPOSES.

SHEET	NO.	DESCRIPTION
SHEET	1	TITLE SHEET
SHEET	2-5	ALIGNMENT SHEET
SHEETS	6-10	TOPOGRAPHIC MAP

THE BASIS OF STATIONING FOR THE CENTERLINE ALIGNMENT SHOWN HEREIN WAS STATION 19+00.00 PER RECORD DRAWING F09-101-1A HELD AT THE CENTERLINE INTERSECTION OF BARRANCA CHANNEL (F09) AND JAMBOREE ROAD.

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR THIS PORTION OF THE BARRANCA CHANNEL (F09).

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				SHEET NO. 1 of 23
			BARRANCA CHANNEL (F09) CHANNEL REPAIR				
			TITLE SHEET				
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW		
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: M. LAFONTAINE, PLS		
			FIELD CHECK		BY: J. RUSSO		
			SCALE: N.T.S.		FILE # 2122PW-ENG0001		
			FILE F-BARRANCA.DWG				
MARK	DATE	ITEM		REVISIONS			

TOPOGRAPHIC MAPPING PROJECT

MONUMENT NOTES

- 1

FOUND LEAD TACK AND 3/4 INCH TAG STAMPED "LS 5921 TIE" PER R8, FLUSH IN CONCRETE, ACCEPTED AS TIE FOR THE CENTERLINE INTERSECTION OF RED HILL AVENUE AND BARRANCA PARKWAY, AND ALSO THE W'LY CORNER OF LOT 104, BLOCK 9 OF R34.
- 2

FOUND LEAD AND TAG PER R8, FLUSH IN CONCRETE, ACCEPTED AS TIE FOR THE CENTERLINE INTERSECTION OF RED HILL AVENUE AND BARRANCA PARKWAY, AND ALSO THE W'LY CORNER OF LOT 104, BLOCK 9 OF R34.
- 3

FOUND LEAD TACK AND 3/4 INCH TAG STAMPED "LS 5921 TIE" PER R8, FLUSH IN CONCRETE, ACCEPTED AS TIE FOR THE CENTERLINE INTERSECTION OF RED HILL AVENUE AND BARRANCA PARKWAY, AND ALSO THE W'LY CORNER OF LOT 104, BLOCK 9 OF R34.
- 4

FOUND LEAD TACK AND TAG STAMPED "LS 5411" PER R9, FLUSH IN CONCRETE, ACCEPTED AS TIE FOR THE CENTERLINE INTERSECTION OF ARMSTRONG AVENUE AND BARRANCA PARKWAY, AND ALSO THE COMMON S'LY CORNER OF LOT 101, BLOCK 47 AND LOT 103, BLOCK 9 OF R34.
- 5

FOUND PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R9, DOWN 2.0 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF ARMSTRONG AVENUE AND BARRANCA PARKWAY
- 6

FOUND PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R10, DOWN 1.5 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF JAMBOREE ROAD AND BARRANCA PARKWAY
- 7

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 7052" IN MONUMENT WELL PER R11, DOWN 1.5 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF ARMSTRONG AVENUE AND ALTON PARKWAY
- 8

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R12, DOWN 1.8 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF VON KARMAN AVENUE AND ALTON PARKWAY
- 9

FOUND ILLEGIBLE 2 1/2 INCH PUNCHED BRASS DISK IN MONUMENT WELL PER R13, DOWN 1.9 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF JAMBOREE ROAD AND ALTON PARKWAY
- 10

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R12, DOWN 1.8 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF VON KARMAN AVENUE AND MCGAW AVENUE
- 11

FOUND ILLEGIBLE 2 1/2 INCH PUNCHED BRASS DISK IN MONUMENT WELL PER R11, DOWN 1.9 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF JAMBOREE ROAD AND MCGAW AVENUE
- 12

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R14, DOWN 1.6 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF DERIAN AVENUE AND MCGAW AVENUE
- 13

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R14, DOWN 1.6 FEET IN AC, ACCEPTED AS THE CENTERLINE INTERSECTION OF DERIAN AVENUE AND KELVIN AVENUE
- 14

FOUND 2 INCH IRON PIPE WITH 3 INCH PUNCHED ALUMINUM DISK STAMPED "CITY OF IRVINE JOHNSON--FRANK ASSOC PLS 4215" PER R7, DOWN 0.4 FEET IN DIRT, ACCEPTED AS A POINT ON THE CENTERLINE OF JAMBOREE ROAD
- 15

FOUND 2 1/2 INCH PUNCHED BRASS DISK STAMPED "LS 3246" IN MONUMENT WELL PER R14, DOWN 1.7 FEET IN AC, N49°21'19" 0.05 FEET FROM THE CENTERLINE INTERSECTION OF KELVIN AVENUE AND JAMBOREE ROAD
- 16

FOUND ILLEGIBLE 2 1/2 INCH PUNCHED BRASS DISK IN MONUMENT WELL PER R15, DOWN 1.8 FEET IN AC, ACCEPTED AS THE INTERSECTION OF MURPHY AVENUE AND KELVIN AVENUE
- 17

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD STA 88+18.91 BM F09-32 LS 3522" PER R16, DOWN 0.9 FEET IN CONCRETE, N49°25'05"W 0.46 FEET FROM THE INTERSECTION OF THE E'LY RIGHT OF BARRANCA CHANNEL AND THE S'LY RIGHT OF WAY OF BARRANCA PARKWAY
- 18

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD STA 88+18.91 BM F09-32 LS 3522" PER R16, DOWN 1.6 FEET, ACCEPTED AS POINT ON THE E'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 19

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD RW B.C., STA 84+77.52, B.M. F09-29, L.S. 3522" PER R16, N22°50'01"E 0.10 FEET FROM THE B.C. OF THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 20

FOUND PARTIALLY LEGIBLE 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD ____-30" PER R16, DOWN 1.0 FOOT IN CONCRETE, N14°36'01"E 0.10 FEET FROM THE B.C. OF THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 21

FOUND 2 INCH IRON PIPE AND ILLEGIBLE 3/4 INCH BRASS TAG PER R16, DOWN 1.0 FOOT, N49°21'42"W 0.25 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 22

FOUND 2 INCH IRON PIPE AND 3/4 INCH BRASS TAG STAMPED "LS 7848" PER R4, DOWN 0.2 FEET, S49°21'48"E 1.79 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 23

FOUND 2 INCH IRON PIPE WITH PARTIALLY LEGIBLE 3/4 INCH BRASS TAG STAMPED "____ 324_" PER R17, DOWN 0.7 FEET, N49°21'48"W 0.29 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 24

FOUND 2 1/4 INCH PARTIALLY LEGIBLE BRASS DISK STAMPED "OCFCD STA 74+6_._ BM F09-27 LS 3522" PER R16, DOWN 1.2 FEET IN CONCRETE, N49°21'48"W 0.08 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 25

FOUND 2 INCH IRON PIPE WITH PARTIALLY LEGIBLE BRASS TAG STAMPED "____ 32____" PER R17, DOWN 1.0 FOOT, N49°21'48"W 0.20 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 26

FOUND PARTIALLY LEGIBLE 2 1/4 INCH BRASS DISK STAMPED "OCFCD R/W POT STA 74+64._ BM F09-28 LS 3522" PER R16, DOWN 1.3 FEET IN CONCRETE, N49°21'48"W 0.05 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 27

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R17, DOWN 1.0 FOOT, N49°21'48"W 0.23 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 28

FOUND EMPTY 2 INCH IRON PIPE PER R16, DOWN 0.6 FEET, MEASURED CENTER MASS, N49°21'48"W 0.23 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 29

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R17, DOWN 0.6 FEET, N49°21'48"W 0.25 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 30

FOUND MAG NAIL AND 2 INCH ALUMINUM WASHER STAMPED "CITY OF IRVINE" PER R18, FLUSH IN AC, ACCEPTED AS POINT ON THE CENTERLINE OF ALTON PARKWAY, N49°21'48"W 0.27 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 31

FOUND MAG NAIL AND 2 INCH ALUMINUM WASHER STAMPED "CITY OF IRVINE" PER R19, FLUSH IN AC, ACCEPTED AS POINT ON THE CENTERLINE OF ALTON PARKWAY
- 32

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R20, DOWN 0.6 FEET, N49°21'48"W 0.28 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 33

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3453" PER R21, DOWN 0.2 FEET, N49°21'48"W 0.10 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 34

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R6, FLUSH, N49°21'48"W 0.23 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 35

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R22, DOWN 0.6 FEET, N49°21'48"W 0.38 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 36

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R22, DOWN 0.4 FEET, N49°21'48"W 0.31 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 37

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R22, DOWN 0.7 FEET, N49°21'48"W 0.33 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 38

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R22, DOWN 0.5 FEET, N49°21'48"W 0.37 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 39

FOUND GEAR SPIKE AND 1.25 INCH BRASS TAG STAMPED "RCE 23434" PER R6, FLUSH IN AC, N40°38'36"E 0.04 FEET FROM THE CENTERLINE OF MCGAW AVENUE, N49°21'48"W 0.35 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 40

FOUND 1 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "RCE 23132" PER R23, DOWN 0.2 FEET, N49°21'48"W 0.42' FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 41

FOUND 1 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "RCE 23132" PER R23, DOWN 0.2 FEET, N49°21'48"W 0.52' FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 42

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R24, DOWN 1.2 FEET, N49°21'48"W 0.24 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 43

FOUND 2 INCH IRON PIPE AND NAIL WITH NO TAG PER R25, DOWN 1.1 FEET, N49°21'48"W 0.35 FEET FROM THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).

- 44

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD R/W EC STA 41+41.81 BM F09-11 LS 3522" PER R16, DOWN 0.5 FEET IN CONCRETE, N72°50'37"W 0.36 FEET FROM THE EC OF THE NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 45

FOUND PUNCHED 2 1/4 INCH BRASS DISK STAMPED "OCFCD R/W EC STA 41+41.81 BM F09-11 LS 3522" PER R16, FLUSH IN CONCRETE, N76°17'32"W 0.21 FEET FROM THE EC OF THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 46

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R14, DOWN 0.3 FEET, N50°16'52"W 0.19 FEET FROM THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 47

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R26, DOWN 0.7 FEET, S86°36'01"W 0.51 FEET FROM THE W'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 48

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R26, DOWN 0.8 FEET, S64°18'36"W 0.42 FEET FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 49

FOUND 2 INCH IRON PIPE WITH ILLEGIBLE 3/4 INCH BRASS TAG PER R26, DOWN 0.6 FEET, S61°03'52"W 0.37 FEET FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 50

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R26, DOWN 0.6 FEET, S46°06'35"W 0.38 FEET FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 51

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD R/W BC BM F09-9 LS 3522" PER R16, FLUSH IN CONCRETE, S77°56'20"W 0.68' FROM THE B.C. OF THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 52

FOUND PARTIALLY LEGIBLE 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD XXXX LS 3522" PER R16, DOWN 0.9 FEET IN CONCRETE, S77°56'20"W 0.28' FROM THE B.C. OF THE NE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 53

FOUND 2 INCH IRON PIPE WITH 3/4 INCH BRASS TAG STAMPED "LS 3246" PER R14, DOWN 0.8 FEET, ACCEPTED AS A POINT ON THE NE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 54

FOUND LEAD TACK AND 3/4 INCH BRASS TAG STAMPED "RCE 30560" PER R27, FLUSH ON 6 FOOT PILASTER, S40°38'24"W 0.51 FEET FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 55

FOUND 2 INCH IRON PIPE WITH 3/4 INCH PARTIALLY LEGIBLE BRASS TAG STAMPED "RCE 21_.87" PER R28, DOWN 0.4 FEET, N40°38'24"E 0.25 FEET FROM THE NE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 56

FOUND LEAD TACK AND 3/4 INCH BRASS TAG STAMPED "RCE 30560" PER R27, FLUSH ON 6 FOOT PILASTER, S40°38'24"W 0.37 FEET FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 57

FOUND 2 1/4 INCH PUNCHED BRASS DISK STAMPED "OCFCD STA 22+28.33 LS 3522" PER R16, DOWN 0.8 FEET IN CONCRETE, S40°38'24"W 0.15' FROM THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 58

FOUND 2 INCH IRON PIPE WITH 3 INCH PUNCHED ALUMINUM DISK STAMPED "CITY OF IRVINE JOHNSON--FRANK ASSOC PLS 4215" PER R7, DOWN 0.3 FEET IN DIRT, S67°14'42"W 0.26 FEET FROM THE INTERSECTION OF THE CENTERLINE OF JAMBOREE ROAD AND SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09).
- 59

FOUND 2 INCH IRON PIPE WITH 3 INCH PUNCHED ALUMINUM DISK STAMPED "CITY OF IRVINE JOHNSON--FRANK ASSOC PLS 4215" PER R7, DOWN 0.4 FEET IN DIRT, N49°21'36"W 0.05 FEET FROM THE INTERSECTION OF THE CENTERLINE OF JAMBOREE ROAD AND NE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09), ACCEPTED AS A POINT ON SAID NE'LY RIGHT OF WAY.

REFERENCES

- R1 = RECORD OF SURVEY 2002-1058, R.S.B. 194/19-27
- R2 = PARCEL MAP, P.M.B. 24/36
- R3 = PARCEL MAP, P.M.B. 25/41
- R4 = PARCEL MAP NO. 2006-223, P.M.B. 356/6-7
- R5 = PARCEL MAP NO. 81-613, P.M.B. 174/18-21
- R6 = PARCEL MAP NO. 2001-154, P.M.B. 329/4-7
- R7 = RECORD OF SURVEY 97-1004, R.S.B. 164/33-40
- R8 = CORNER RECORD, C.R. 2012-1706
- R9 = CORNER RECORD, C.R. 2016-1038
- R10 = CORNER RECORD, C.R. 2021-2074
- R11 = CORNER RECORD, C.R. 2008-1817
- R12 = PARCEL MAP, P.M.B. 35/40
- R13 = CORNER RECORD, C.R. 2013-0173
- R14 = TRACT NO. 7814, M.M. 305/40-42
- R15 = TRACT NO. 8018, M.M. 313/20-22
- R16 = RECORD OF SURVEY 2013-1168, R.S.B. 271/7-19
- R17 = TRACT NO. 7840, M.M. 312/15-19
- R18 = CORNER RECORD, C.R. 2002-0701
- R19 = CORNER RECORD, C.R. 2002-0703
- R20 = PARCEL MAP, P.M.B. 39/26
- R21 = PARCEL MAP NO. 2004-176, P.M.B. 350/46-48
- R22 = PARCEL MAP, P.M.B. 48/39
- R23 = PARCEL MAP NO. 2007-123, P.M.B. 365/27-28
- R24 = PARCEL MAP, P.M.B. 42/42
- R25 = PARCEL MAP, P.M.B. 43/4
- R26 = PARCEL MAP, P.M.B. 130/46-49
- R27 = TRACT NO. 16955, M.M. 922/21-28
- R28 = TRACT NO. 13037, M.M. 593/45-47
- R29 = PARCEL MAP, P.M.B. 51/45
- R30 = PARCEL MAP, P.M.B. 81/23-24
- R31 = TRACT NO. 7815, M.M. 334/8-11
- R32 = PARCEL MAP, P.M.B. 57/33
- R33 = PARCEL MAP NO. 84-630, P.M.B. 209/15-19
- R34 = IRVINE SUBDIVISION, M.M. 1/88
- R40 = GRANT DEED, BOOK 9366, PAGE 988, O.R.
- R41 = GRANT EASEMENT, BOOK 9924, PAGE 289, O.R.
- R42 = GRANT EASEMENT, INSTRUMENT NO. 90-036488, O.R.

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 O.C.S. HORIZONTAL CONTROL STATIONS CP NO. 6535 AND GPS NO. 6748 BEING NORTH 03°08'46" WEST PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

BASIS OF STATIONING

THE BASIS OF STATIONING FOR THE CENTERLINE ALIGNMENT SHOWN HEREIN WAS STATION 19+00.00 PER RECORD DRAWING F09-101-1A HELD AT ESTABLISHMENT NOTE [46](#) SHOWN HEREIN AND INCREASING N'LY.

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 1.00002316.

COMBINATION FACTOR WAS HELD AT POINT NUMBER 201 N: 2199005.27', E: 6079022.00', ELEVATION= 40.04'.

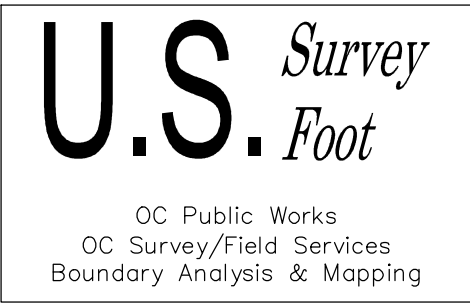
RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

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

NOTES

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.



ESTABLISHMENT NOTES

- [A](#)

ESTABLISHED THE CENTERLINE INTERSECTION OF RED HILL AVENUE AND BARRANCA PARKWAY BY HOLDING TIES PER R8 DUE TO TRAFFIC CONDITIONS.
- [B](#)

ESTABLISHED THE W'LY CORNER OF LOT 104, BLOCK 9 OF R34 BY HOLDING TIES PER R8 MONUMENT INACCESSIBLE DUE TO HAZARDOUS TRAFFIC CONDITIONS.
- [C](#)

ESTABLISHED THE CENTERLINE OF BARRANCA PARKWAY BY HOLDING A LINE BETWEEN MONUMENT NOTE [5](#) AND ESTABLISHMENT NOTE [4](#).
- [D](#)

ESTABLISHED THE COMMON S'LY CORNER OF LOT 101, BLOCK 47 AND LOT 103, BLOCK 9 OF R34 BY HOLDING TIES PER R9 DUE TO TRAFFIC CONDITIONS.
- [E](#)

S.F.N. ESTABLISHED ANGLE POINT IN THE CENTERLINE OF BARRANCA PARKWAY BY HOLDING A RECORD DISTANCE OF 27.47 FEET SE'LY FROM MONUMENT NOTE [5](#) ALONG LINE ESTABLISHMENT [C](#).
- [F](#)

ESTABLISHED THE S'LY LINE OF LOTS 103 AND 104 OF BLOCK 9 OF R34 BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 30 FEET PER R1 NE'LY FROM LINE ESTABLISHMENT [C](#).
- [G](#)

ESTABLISHED THE CENTERLINE OF BARRANCA PKWY BY HOLDING A LINE BETWEEN MONUMENT NOTE [6](#) AND ESTABLISHMENT NOTE [4](#).
- [H](#)

ESTABLISHED THE S'LY LINE OF LOTS 101 AND 102 OF BLOCK 47 OF R34 BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 30 FEET PER R1 NE'LY FROM LINE ESTABLISHMENT [C](#).
- [I](#)

ESTABLISHED THE CENTERLINE OF ALTON PARKWAY BY HOLDING A LINE BETWEEN MONUMENT NOTES [7](#) AND [8](#).
- [J](#)

ESTABLISHED THE CENTERLINE OF ALTON PARKWAY BY HOLDING A LINE BETWEEN MONUMENT NOTES [8](#) AND [9](#).
- [K](#)

ESTABLISHED THE S'LY LINE OF LOTS 111 AND 112 OF BLOCK 47 OF R34 BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 10 FEET PER R20 SW'LY FROM LINE ESTABLISHMENT [C](#).
- [L](#)

ESTABLISHED THE CENTERLINE OF VON KARMAN AVENUE BY HOLDING A LINE BETWEEN MONUMENT NOTES [8](#) AND [10](#).
- [M](#)

ESTABLISHED THE CENTERLINE OF MCGAW AVENUE BY HOLDING A LINE BETWEEN MONUMENT NOTES [10](#) AND [11](#).
- [N](#)

ESTABLISHED THE CENTERLINE OF JAMBOREE ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES [9](#) AND [11](#).
- [O](#)

ESTABLISHED THE CENTERLINE OF DERIAN AVENUE BY HOLDING A LINE BETWEEN MONUMENT NOTES [12](#) AND [13](#).
- [P](#)

ESTABLISHED THE CENTERLINE OF JAMBOREE ROAD BY HOLDING A LINE BETWEEN MONUMENT NOTES [11](#) AND [14](#).
- [Q](#)

ESTABLISHED THE CENTERLINE OF KELVIN AVENUE BY HOLDING A LINE BETWEEN MONUMENT NOTES [15](#) AND [16](#).
- [R](#)

ESTABLISHED THE CENTERLINE INTERSECTION OF KELVIN AVENUE AND JAMBOREE ROAD BY INTERSECTION OF LINE ESTABLISHMENTS [4](#) AND [Q](#).
- [S](#)

S.F.N. ESTABLISHED THE POINT OF BEGINNING OF PARCEL 102 OF R40 BY INTERSECTING A RECORD DISTANCE OF 4363.32 FEET PER R40 SE'LY FROM ESTABLISHMENT NOTE [4](#) WITH LINE ESTABLISHMENT [4](#) (SEE DETAIL "A" ON SHEET 4).
- [T](#)

ESTABLISHED THE CENTERLINE OF PARCEL 102 OF R40 BY HOLDING RECORD COURSES PER R40 S'LY FROM ESTABLISHMENT NOTE [4](#) AND TANGENT TO LINE ESTABLISHMENT [4](#).
- [U](#)

ESTABLISHED THE NE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A LINE BETWEEN MONUMENT NOTES [53](#) AND [59](#).
- [V](#)

ESTABLISHED THE CENTERLINE OF BARRANCA CHANNEL (F09) BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 45 FEET PER R40 SW'LY OF LINE ESTABLISHMENT [4](#).
- [W](#)

ESTABLISHED THE CENTERLINE OF BARRANCA CHANNEL (F09) BY HOLDING A RECORD RADIUS OF 605 FEET PER R40 AND TANGENT TO LINE ESTABLISHMENTS [4](#) AND [4](#).
- [X](#)

ESTABLISHED THE CENTERLINE OF VON KARMAN AVENUE BY HOLDING A LINE PARALLEL WITH LINE ESTABLISHMENT [4](#) NE'LY FROM MONUMENT NOTE [8](#).
- [Y](#)

ESTABLISHED THE CENTERLINE OF ARMSTRONG AVENUE BY HOLDING A LINE BETWEEN MONUMENT NOTES [5](#) AND [7](#).
- [Z](#)

ESTABLISHED THE W'LY AND NW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A COURSE PARALLEL WITH, AND A RECORD DISTANCE OF 45 FEET PER R40 W'LY AND NW'LY FROM LINE ESTABLISHMENTS [4](#) AND [4](#).
- [4A](#)

ESTABLISHED THE E'LY AND SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A COURSE PARALLEL WITH, AND A RECORD DISTANCE OF 30 FEET PER R40 E'LY AND SE'LY FROM LINE ESTABLISHMENTS [4](#) AND [4](#).
- [4B](#)

ESTABLISHED THE SE'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A COURSE PARALLEL WITH, AND A RECORD DISTANCE OF 45 FEET PER R40 SE'LY FROM LINE ESTABLISHMENT [4](#).
- [4C](#)

ESTABLISHED THE W'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A CURVE COCENTRIC WITH, AND A RECORD DISTANCE OF 45 FEET W'LY FROM CURVE ESTABLISHMENT [4](#).
- [4D](#)

ESTABLISHED THE E'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A CURVE COCENTRIC WITH, AND A RECORD DISTANCE OF 45 FEET E'LY FROM CURVE ESTABLISHMENT [4](#).
- [4E](#)

ESTABLISHED THE SW'LY RIGHT OF WAY OF BARRANCA CHANNEL (F09) BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 45 FEET PER R40 SW'LY FROM LINE ESTABLISHMENT [4](#).
- [4F](#)

ESTABLISHED THE SW'LY RIGHT OF WAY OF BARRANCA PARKWAY BY HOLDING A LINE PARALLEL WITH, AND A RECORD DISTANCE OF 60 FEET PER R16 SW'LY FROM LINE ESTABLISHMENT [4](#).
- [4G](#)

ESTABLISHED THE CENTERLINE OF PARCEL 201 OF R41 BY HOLDING A LINE PARALLEL AND A RECORD DISTANCE OF 55 FEET PER R41 S'LY FROM LINE ESTABLISHMENTS [4](#) AND [4](#).
- [4H](#)

ESTABLISHED THE CENTERLINE OF PARCEL 102 OF R40 BY HOLDING A LINE TANGENT AND S'LY FROM ESTABLISHMENT NOTE [4](#).
- [4I](#)

ESTABLISHED THE CENTERLINE INTERSECTION OF VON KARMAN AVENUE AND BARRANCA PARKWAY BY INTERSECTION OF LINE ESTABLISHMENTS [4](#) AND [4](#).
- [4J](#)

ESTABLISHED THE CENTERLINE INTERSECTION OF PARCEL 102 OF R40 AND JAMBOREE ROAD BY INTERSECTION OF LINE ESTABLISHMENTS [4](#) AND [4](#).
- [4K](#)

ESTABLISHED THE CENTERLINE OF PARCEL 201 OF R41 BY HOLDING A RECORD RADIUS OF 200 FEET PER R41 N'LY FROM ESTABLISHMENT NOTE [4](#).

SURVEYOR'S NARRATIVE

THE POINT OF BEGINNING FOR PARCEL 101, ESTABLISHMENT NOTE [4](#) WAS ESTABLISHED HOLDING A RECORD DISTANCE OF 4363.32 FEET, PER R40, SE'LY FROM ESTABLISHMENT [4](#), SHOWN HEREIN & INTERSECTING LINE ESTABLISHMENT [4](#). (SEE DETAIL "A" ON SHEET 4)

A CURVE WAS RUN NW'LY FROM THIS ESTABLISHMENT TANGENT TO A LINE 55' NE'LY OF & PARALLEL WITH LINE ESTABLISHMENT [4](#). THIS WAS ESTABLISHED AS NOTE [4](#).

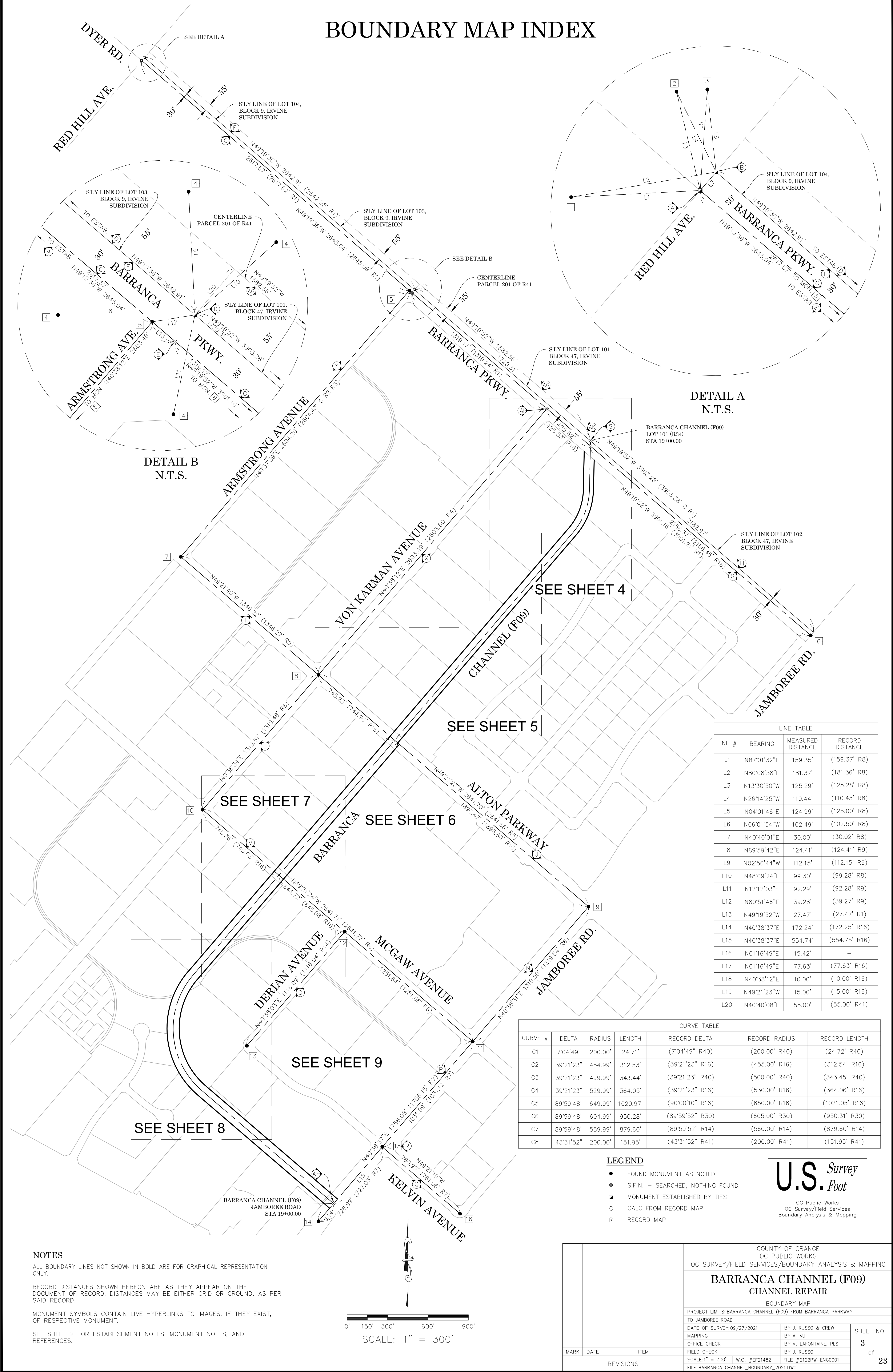
ESTABLISHMENT [4](#) WAS THEN RUN TANGENT TO [4](#) & SW'LY TO A TANGENT CURVE ESTABLISHMENT [4](#).

A LINE WAS THEN RUN SE'LY, & TANGENT TO SAID CURVE PARALLELING MONUMENTS [53](#) & [59](#) & TERMINATING AT LINE ESTABLISHMENT [4](#).

EFFORTS WERE MADE TO INCORPORATE CHANNEL RIGHT OF WAY MONUMENTS ESTABLISHED BY SURROUNDING TRACTS AND FLOOD CONTROL SURVEYS, BUT THEY DID NOT FIT MONUMENTS THAT REPRESENT THE INTENT OF THE UNDERLYING DEED WHICH WAS SENIOR IN DATE TO SURROUNDING PARCELS.

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		BARRANCA CHANNEL (F09) CHANNEL REPAIR			
		BOUNDARY MAP			
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
		DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW	SHEET NO. 2 of 23	
		MAPPING	BY: A. VU		
		OFFICE CHECK	BY: M. LAFONTAINE, PLS		
		FIELD CHECK	BY: J. RUSSO		
MARK	DATE	ITEM	SCALE: N/A	W.O. #EF21482	FILE #2122PW-ENG0001
REVISIONS			FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG		

BOUNDARY MAP INDEX



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N87°01'32"E	159.35'	(159.37' R8)
L2	N80°08'58"E	181.37'	(181.36' R8)
L3	N13°30'50"W	125.29'	(125.28' R8)
L4	N26°14'25"W	110.44'	(110.45' R8)
L5	N04°01'46"E	124.99'	(125.00' R8)
L6	N06°01'54"W	102.49'	(102.50' R8)
L7	N40°40'01"E	30.00'	(30.02' R8)
L8	N89°59'42"E	124.41'	(124.41' R9)
L9	N02°56'44"W	112.15'	(112.15' R9)
L10	N48°09'24"E	99.30'	(99.28' R8)
L11	N12°12'03"E	92.29'	(92.28' R9)
L12	N80°51'46"E	39.28'	(39.27' R9)
L13	N49°19'52"W	27.47'	(27.47' R1)
L14	N40°38'37"E	172.24'	(172.25' R16)
L15	N40°38'37"E	554.74'	(554.75' R16)
L16	N01°16'49"E	15.42'	—
L17	N01°16'49"E	77.63'	(77.63' R16)
L18	N40°38'12"E	10.00'	(10.00' R16)
L19	N49°21'23"W	15.00'	(15.00' R16)
L20	N40°40'08"E	55.00'	(55.00' R41)

CURVE TABLE						
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADIUS	RECORD LENGTH
C1	7°04'49"	200.00'	24.71'	(7°04'49" R40)	(200.00' R40)	(24.72' R40)
C2	39°21'23"	454.99'	312.53'	(39°21'23" R16)	(455.00' R16)	(312.54' R16)
C3	39°21'23"	499.99'	343.44'	(39°21'23" R40)	(500.00' R40)	(343.45' R40)
C4	39°21'23"	529.99'	364.05'	(39°21'23" R16)	(530.00' R16)	(364.06' R16)
C5	89°59'48"	649.99'	1020.97'	(90°00'10" R16)	(650.00' R16)	(1021.05' R16)
C6	89°59'48"	604.99'	950.28'	(89°59'52" R30)	(605.00' R30)	(950.31' R30)
C7	89°59'48"	559.99'	879.60'	(89°59'52" R14)	(560.00' R14)	(879.60' R14)
C8	43°31'52"	200.00'	151.95'	(43°31'52" R41)	(200.00' R41)	(151.95' R41)

- LEGEND
- FOUND MONUMENT AS NOTED
 - S.F.N. — SEARCHED, NOTHING FOUND
 - MONUMENT ESTABLISHED BY TIES
 - CALC FROM RECORD MAP
 - R RECORD MAP

U.S. Survey
Foot

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

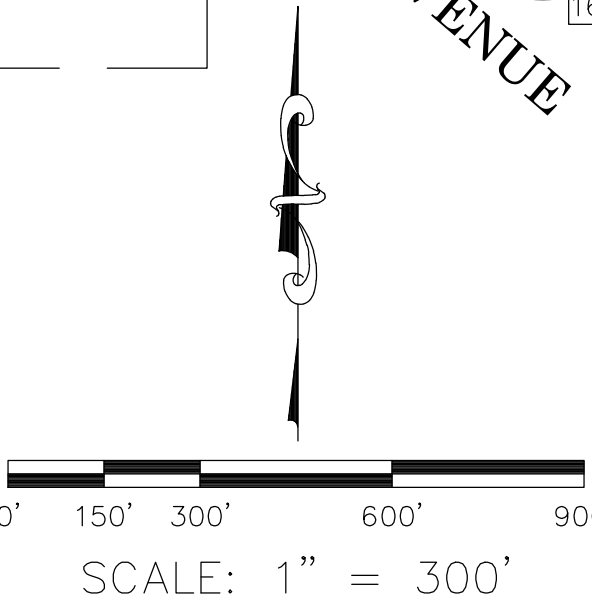
NOTES

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

SEE SHEET 2 FOR ESTABLISHMENT NOTES, MONUMENT NOTES, AND REFERENCES.



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			BARRANCA CHANNEL (F09) CHANNEL REPAIR				
			BOUNDARY MAP				
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
			DATE OF SURVEY:09/27/2021		BY:J. RUSSO & CREW		SHEET NO. 3 of 23
			MAPPING		BY:A. VU		
			OFFICE CHECK		BY:M. LAFONTAINE, PLS		
			FIELD CHECK		BY:J. RUSSO		
			SCALE:1" = 300'		W.O. #EF21482		
			MARK	DATE	ITEM	FILE #2122PW-ENG0001	
REVISIONS							
FILE:BARRANCA_CHANNEL_BOUNDARY_2021.DWG							

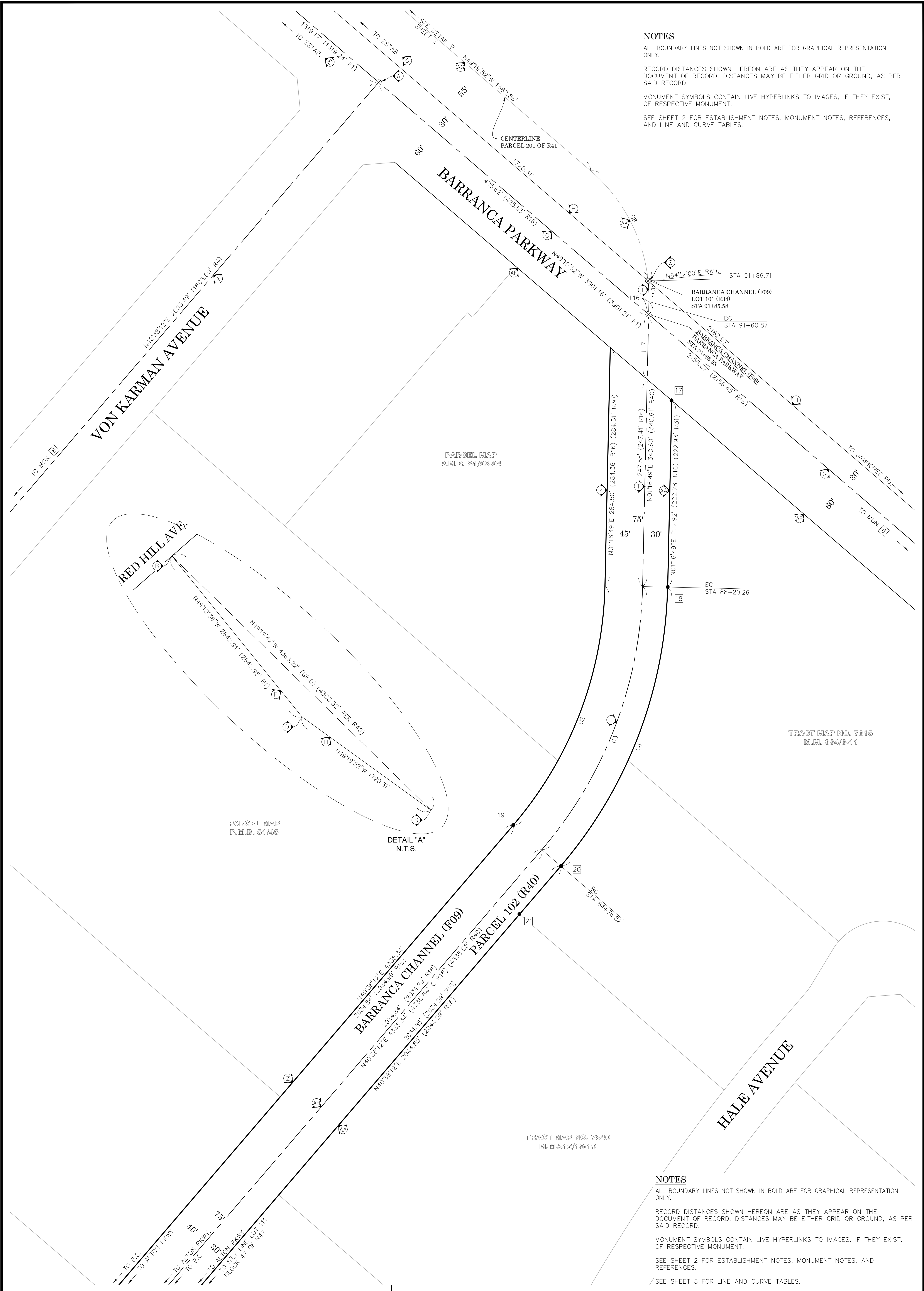
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NOTES

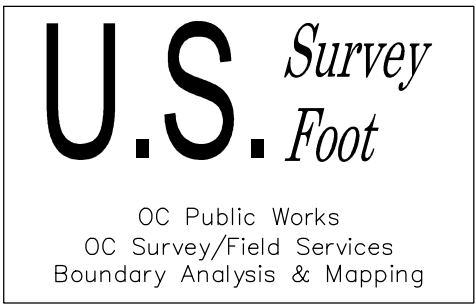
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SEE SHEET 3 FOR LINE AND CURVE TABLES.



LEGEND

- FOUND MONUMENT AS NOTED
- ⊙ S.F.N. — SEARCHED, NOTHING FOUND
- MONUMENT ESTABLISHED BY TIES
- C CALC FROM RECORD MAP
- R RECORD MAP



SCALE: 1" = 50'

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		BARRANCA CHANNEL (F09) CHANNEL REPAIR				
		BOUNDARY MAP				
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
		DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW		SHEET NO. 4 of 23
		MAPPING		BY: A. VU		
		OFFICE CHECK		BY: M. LAFONTAINE, PLS		
		FIELD CHECK		BY: J. RUSSO		
		SCALE: 1" = 50'		W.O. #EF21482		
		MARK	DATE	ITEM	FILE #2122PW-ENG0001	
REVISIONS			FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG			

SEE SHEET 6

PARCEL MAP
P.M.B. 81/45

PARCEL MAP
P.M.B. 125/37-38

PARCEL MAP
P.M.B. 81/8

PARCEL MAP
P.M.B. 80/19-20

TRACT MAP NO. 7840
M.M.312/15-19

HALE AVENUE

VON KARMAN AVENUE

SEE SHEET 6

LEGEND

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

0' 25' 50' 100' 150'

SCALE: 1" = 50'

NOTES

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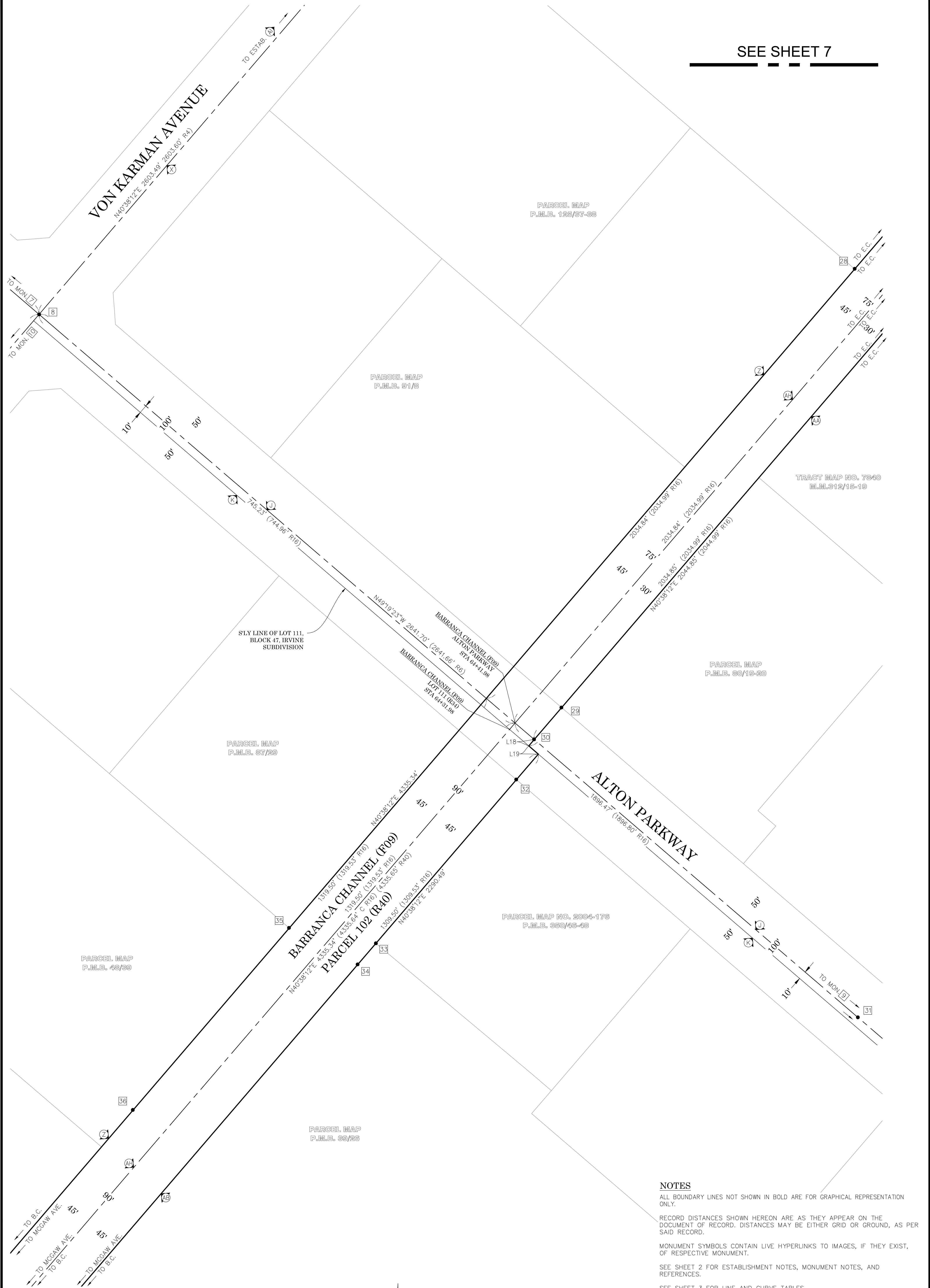
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SEE SHEET 3 FOR LINE AND CURVE TABLES.

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		BARRANCA CHANNEL (F09) CHANNEL REPAIR			
		BOUNDARY MAP			
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
		DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	SHEET NO. 5 of 23
		MAPPING		BY: A. VU	
		OFFICE CHECK		BY: M. LAFONTAINE, PLS	
		FIELD CHECK		BY: J. RUSSO	
		SCALE: 1" = 50'		W.O. #EF21482	
		MARK	DATE	ITEM	FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG
REVISIONS					

SEE SHEET 7



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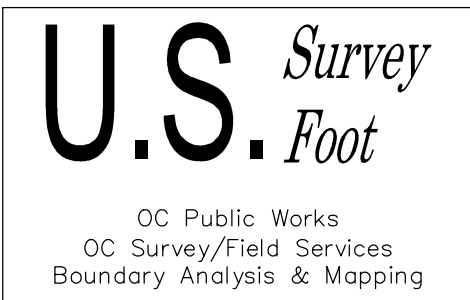
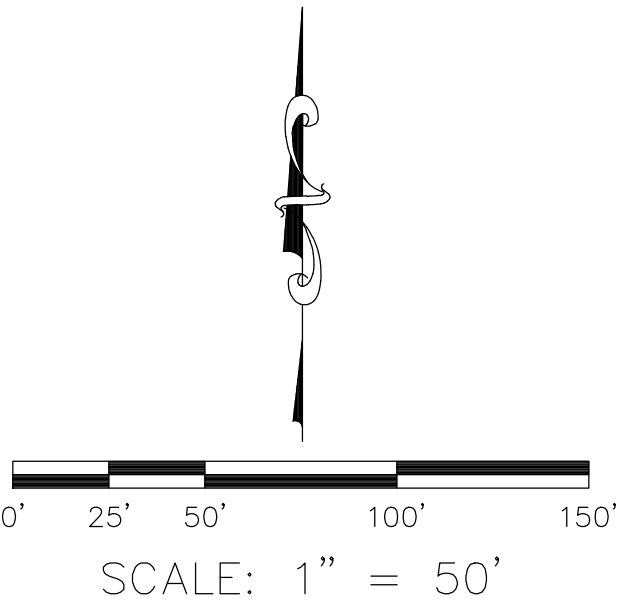
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SEE SHEET 3 FOR LINE AND CURVE TABLES.

SEE SHEET 7

- LEGEND**
- FOUND MONUMENT AS NOTED
 - ⊗ S.F.N. – SEARCHED, NOTHING FOUND
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 - C CALC FROM RECORD MAP
 - R RECORD MAP



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		BARRANCA CHANNEL (F09) CHANNEL REPAIR			
		BOUNDARY MAP			
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY			
		TO JAMBOREE ROAD			
		DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	
		MAPPING		BY: A. VU	
		OFFICE CHECK		BY: M. LAFONTAINE, PLS	
		FIELD CHECK		BY: J. RUSSO	
		SCALE: 1" = 50'		W.O. #EF21482	
REVISIONS		FILE # 2122PW-ENG0001			
		FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG			

MARK	DATE	ITEM	SHEET NO. 6 of 23

SEE SHEET 8

VON KARMAN AVENUE

PARCEL 102 (R40)

MCGAW AVENUE

DERIAN AVENUE

BARRANCA CHANNEL (F09)

TRACT NO. 7814
M.L.M. 305/40-42

NOTES

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SEE SHEET 3 FOR LINE AND CURVE TABLES.

SEE SHEET 6

LEGEND

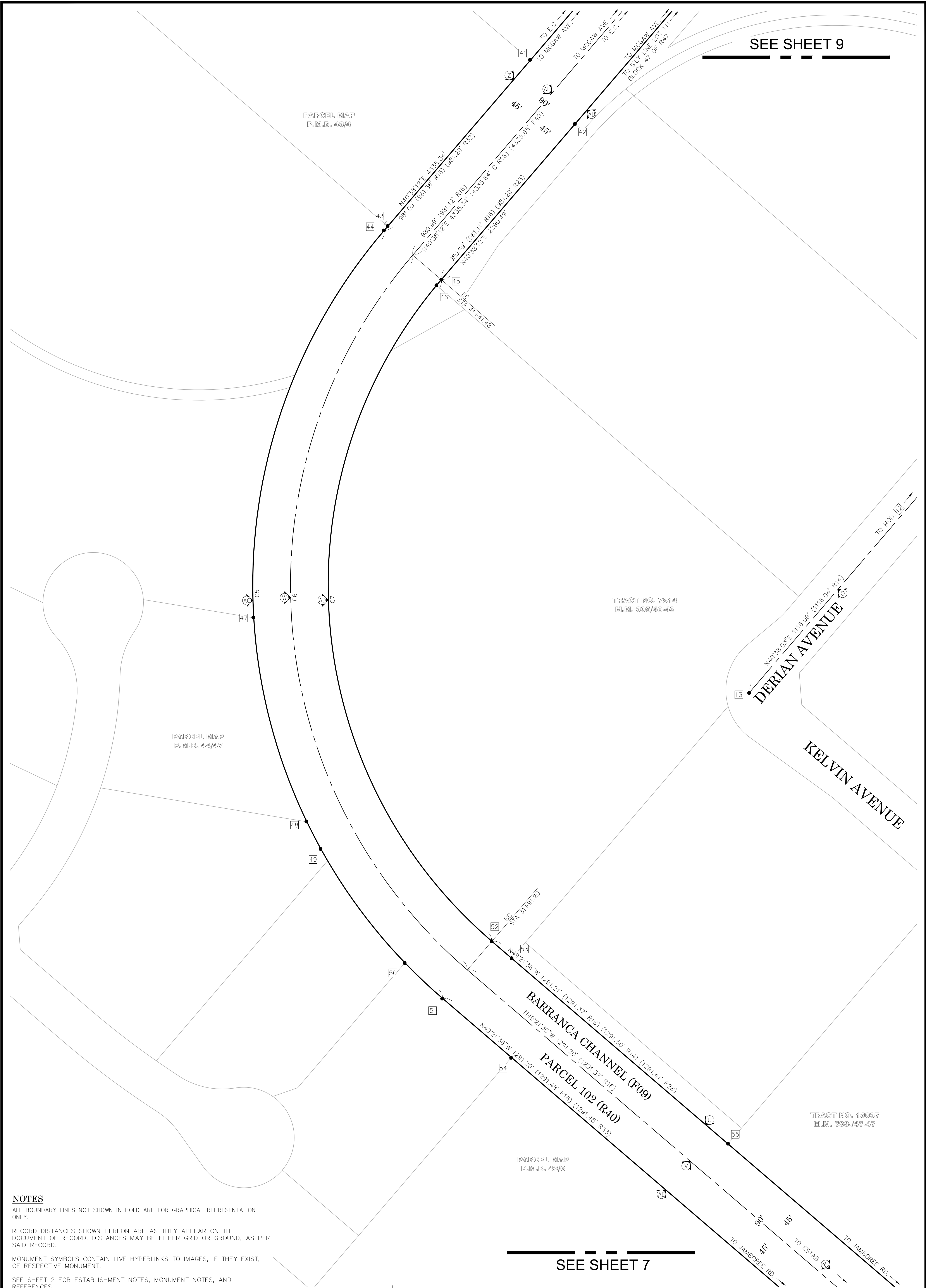
- FOUND MONUMENT AS NOTED
- ⊙ S.F.N. — SEARCHED, NOTHING FOUND
- ▣ MONUMENT ESTABLISHED BY TIES
- CALC FROM RECORD MAP
- R RECORD MAP

SCALE: 1" = 50'

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		
BARRANCA CHANNEL (F09) CHANNEL REPAIR		
BOUNDARY MAP		
PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD		
DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW	SHEET NO. 7 of 23
MAPPING	BY: A. VU	
OFFICE CHECK	BY: M. LAFONTAINE, PLS	
FIELD CHECK	BY: J. RUSSO	
SCALE: 1" = 50'	W.O. #EF21482	
FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG		



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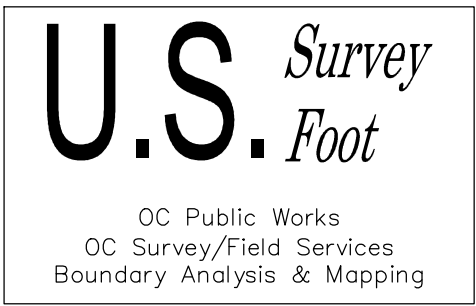
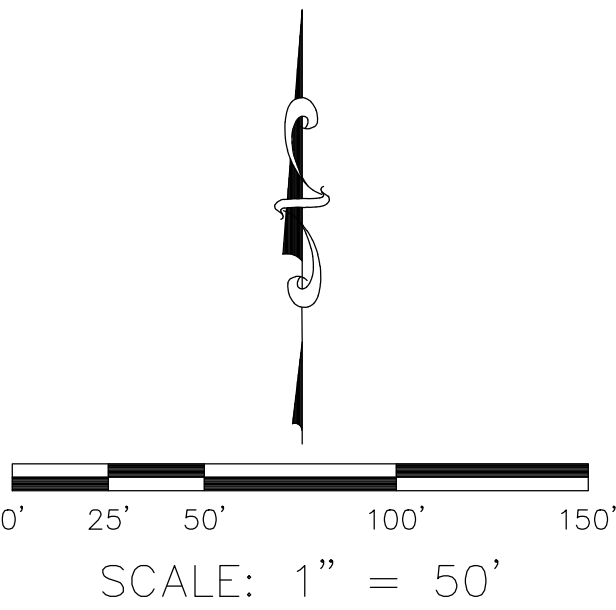
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SEE SHEET 3 FOR LINE AND CURVE TABLES.

- LEGEND**
- FOUND MONUMENT AS NOTED
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 - ▣ MONUMENT ESTABLISHED BY TIES
 - C CALC FROM RECORD MAP
 - R RECORD MAP



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		BARRANCA CHANNEL (F09) CHANNEL REPAIR				
		BOUNDARY MAP				
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
		DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW		SHEET NO. 8 of 23
		MAPPING		BY: A. VU		
		OFFICE CHECK		BY: M. LAFONTAINE, PLS		
FIELD CHECK		BY: J. RUSSO				
MARK	DATE	ITEM	REVISIONS			
		SCALE: 1" = 50' W.O. #EF21482 FILE # 2122PW-ENG0001				
		FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG				

SEE SHEET 10

KELVIN AVENUE

TRACT NO. 7814
M.M. 305/40-42

TRACT NO. 13037
M.M. 393/45-47

KELVIN AVENUE

PARCEL MAP
P.M.B. 43/6

BARRANCA CHANNEL (F09)
PARCEL 102 (R40)

PARCEL MAP NO. 84-630
P.M.B. 209/15-19

JAMBOREE ROAD

BARRANCA CHANNEL (F09)
JAMBOREE ROAD
STA 19+00.00

EASEMENT NOTE

(1) EASEMENT GRANTED TO MARRIOTT CORPORATION FOR ACCESS PURPOSES PER R42

NOTES

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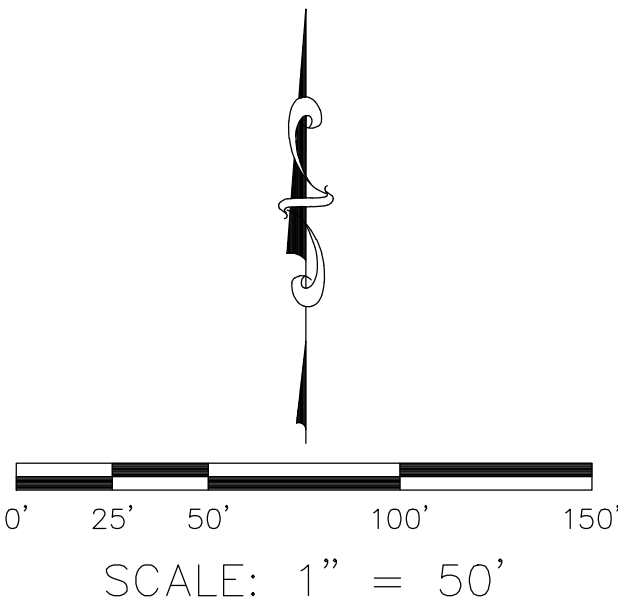
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SEE SHEET 3 FOR LINE AND CURVE TABLES.

LEGEND

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



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

BARRANCA CHANNEL (F09)
CHANNEL REPAIR

BOUNDARY MAP

PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY

TO JAMBOREE ROAD

DATE OF SURVEY: 09/27/2021

MAPPING

OFFICE CHECK

FIELD CHECK

SCALE: 1" = 50'

BY: J. RUSSO & CREW

BY: A. VU

BY: M. LAFONTANE, PLS

BY: J. RUSSO

W.O. #EF21482

FILE #2122PW-ENG0001

FILE: BARRANCA_CHANNEL_BOUNDARY_2021.DWG

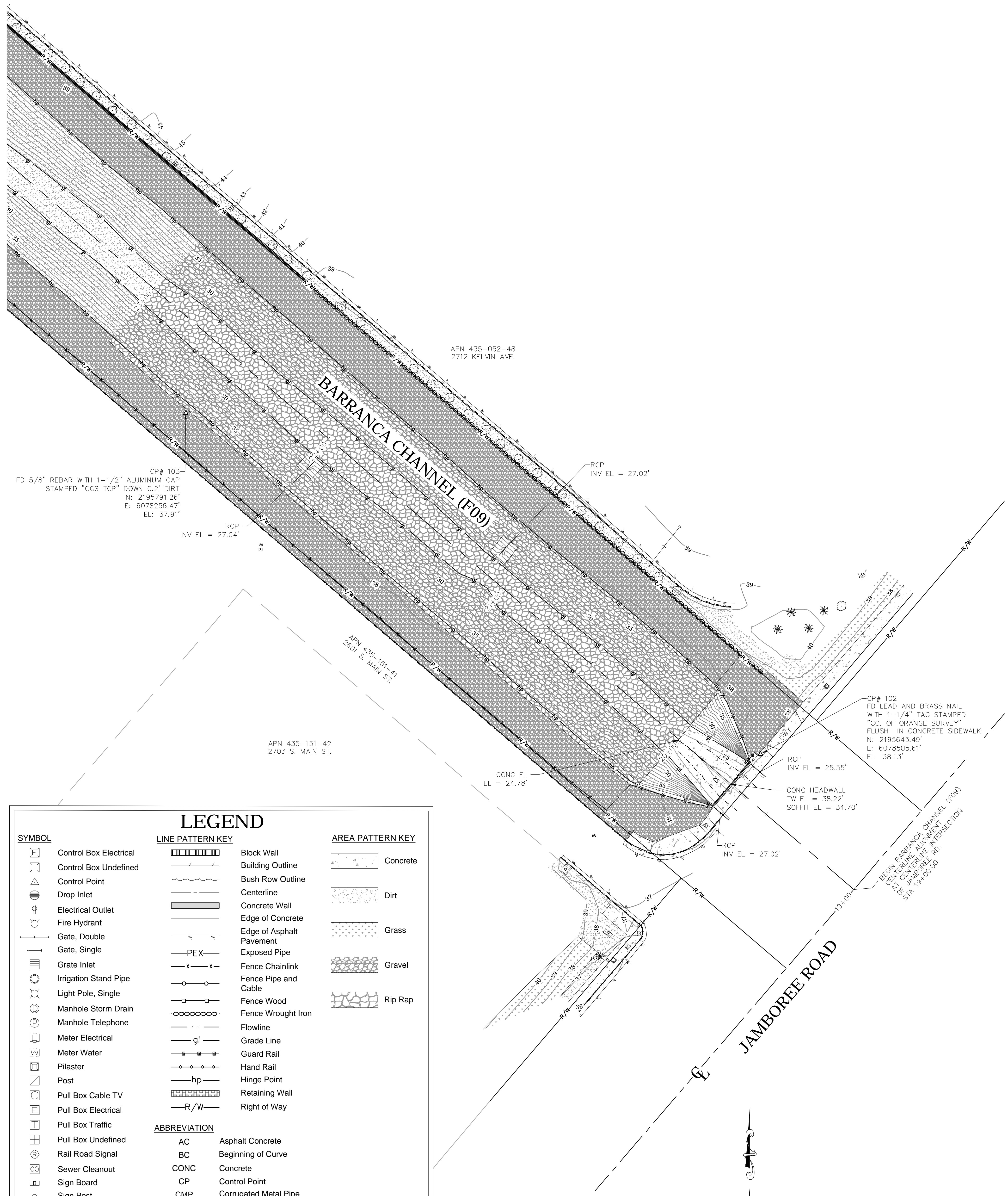
SHEET NO.

9

of

23

SEE SHEET 11



SYMBOL

Control Box Electrical

Control Box Undefined

Control Point

Drop Inlet

Electrical Outlet

Fire Hydrant

Gate, Double

Gate, Single

Grate Inlet

Irrigation Stand Pipe

Light Pole, Single

Manhole Storm Drain

Manhole Telephone

Meter Electrical

Meter Water

Pilaster

Post

Pull Box Cable TV

Pull Box Electrical

Pull Box Traffic

Pull Box Undefined

Rail Road Signal

Sewer Cleanout

Sign Board

Sign Post

Tank

Tree

Tree, Palm

Utility Pole

Utility Warning Sign

Valve Gas

Valve Water

Valve Undefined

Vault Cable TV

Vault Electrical

Vault Telephone

Vault Undefined

Vault Water

Vent Pipe

LINE PATTERN KEY

Block Wall

Building Outline

Bush Row Outline

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Exposed Pipe

Fence Chainlink

Fence Pipe and Cable

Fence Wood

Fence Wrought Iron

Flowline

Grade Line

Guard Rail

Hand Rail

Hinge Point

Retaining Wall

Right of Way

AREA PATTERN KEY

Concrete

Dirt

Grass

Gravel

Rip Rap

ABBREVIATION

AC Asphalt Concrete

BC Beginning of Curve

CONC Concrete

CP Control Point

CMP Corrugated Metal Pipe

DWY Driveway

EL Elevation

EC End of Curve

FL Flowline

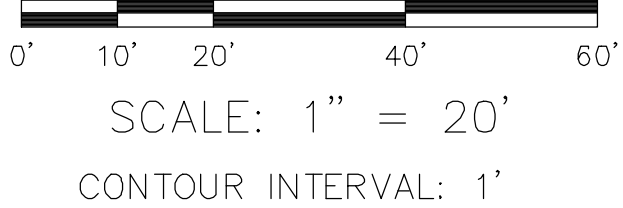
FD Found

INV Invert

PVC Polyvinyl Chloride

RCP Reinforced Concrete Pipe

TW Top of Wall



U.S. Survey

Foot

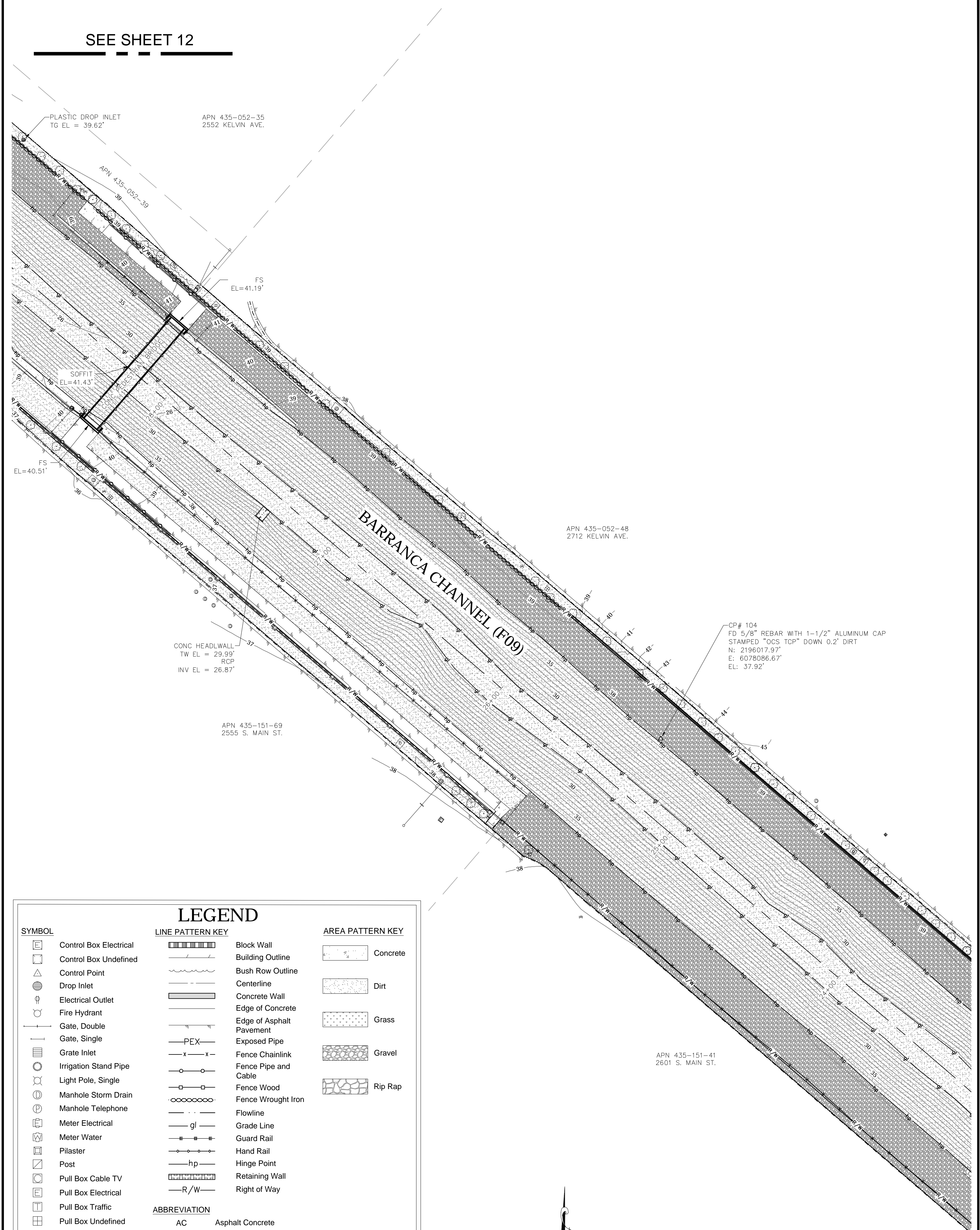
OC Public Works

OC Survey/Field Services

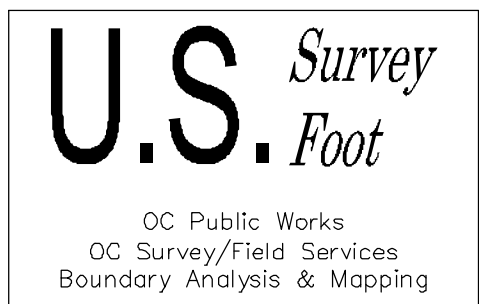
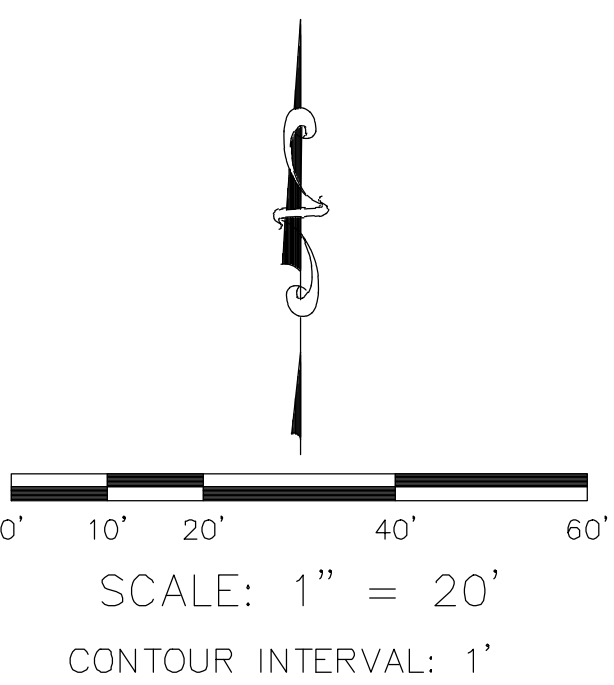
Boundary Analysis & Mapping

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BARRANCA CHANNEL (F09) CHANNEL REPAIR			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: M. LAFONTAINE, PLS	
			FIELD CHECK		BY: J. RUSSO	
			SCALE: 1" = 20'		W.O. #EF21482	
			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG			
			FILE # 2122PW-ENG0001			
MARK	DATE	ITEM	REVISIONS			
			SHEET NO. 10 of 23			

SEE SHEET 12

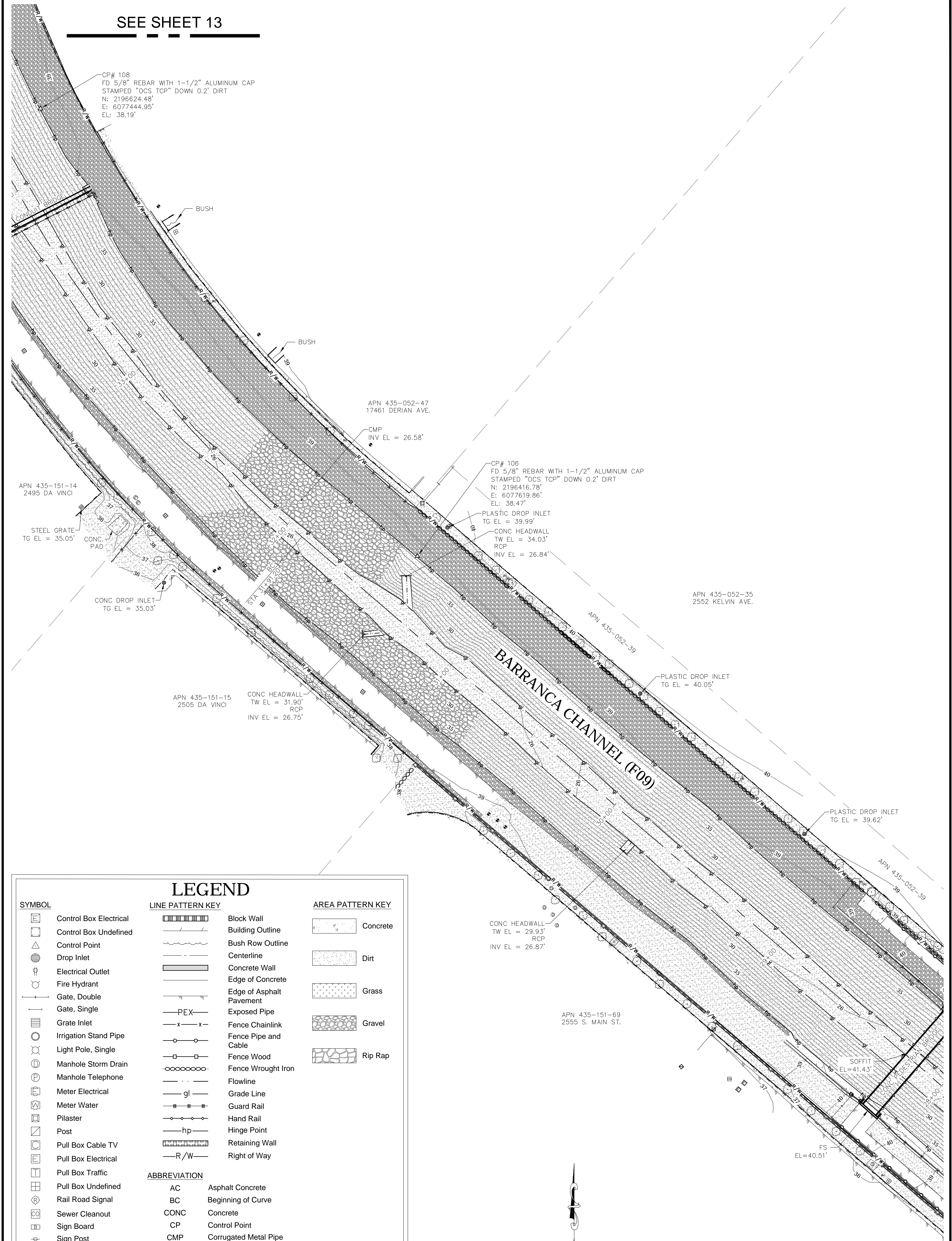


SEE SHEET 10



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BARRANCA CHANNEL (F09) CHANNEL REPAIR			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
DATE OF SURVEY: 09/27/2021				BY: J. RUSSO & CREW		SHEET NO. 11 of 23
MAPPING				BY: A. VU		
OFFICE CHECK				BY: M. LAFONTAINE, PLS		
FIELD CHECK				BY: J. RUSSO		
SCALE: 1" = 20'		W.O. #EF21482		FILE #2122PW-ENG0001		
MARK	DATE	ITEM	REVISIONS			
			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG			

SEE SHEET 13



LEGEND

SYMBOL	LINE PATTERN KEY	AREA PATTERN KEY

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
CONC	Concrete
CP	Control Point
CMP	Corrugated Metal Pipe
DWY	Driveway
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall

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

SEE SHEET 11

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		
			BARRANCA CHANNEL (F09) CHANNEL REPAIR		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD		
			DATE OF SURVEY: 09/27/2021		SHEET NO. 12 of 23
			MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
			SCALE: 1" = 20'		
			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG		
MARK	DATE	ITEM			
REVISIONS					

SEE SHEET 14

APN 435-151-26
17500 CARTWRIGHT RD.

CP# 110
FD 5/8" REBAR WITH 1-1/2" ALUMINUM CAP
STAMPED "OCS TCP" DOWN 0.2' DIRT
N: 2196957.62'
E: 6077328.31'
EL: 38.94'

PLANTER

PLANTER

CP# 109
FD 5/8" REBAR WITH 1-1/2" ALUMINUM CAP
STAMPED "OCS TCP" DOWN 0.2' DIRT
N: 2196888.14'
E: 6077381.84'
EL: 38.73'

2'X3' STEEL GRATE
TG EL = 36.97'

APN 435-052-47
17461 DERIAN AVE.

APN 435-151-12
17570 CARTWRIGHT RD.

STEEL DROP INLET
TG EL = 35.94'

STEEL GRATE
TG EL = 35.60'

CONC HEADWALL
TW EL = 31.43'
RCP
INV EL = 27.20'

CP# 107
FD SPIKE WITH 1-1/2" ALUMINUM CAP STAMPED
"ORANGE COUNTY SURVEYOR" FLUSH IN AC
N: 2196553.73'
E: 6077403.89'
EL: 38.38'

APN 435-151-14
2495 DA VINCI

SEE SHEET 12

0' 10' 20' 40' 60'

SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

LEGEND

SYMBOL

- Control Box Electrical
- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Irrigation Stand Pipe
- Light Pole, Single
- Manhole Storm Drain
- Manhole Telephone
- Meter Electrical
- Meter Water
- Pilaster
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Rail Road Signal
- Sewer Cleanout
- Sign Board
- Sign Post
- Tank
- Tree
- Tree, Palm
- Utility Pole
- Utility Warning Sign
- Valve Gas
- Valve Water
- Valve Undefined
- Vault Cable TV
- Vault Electrical
- Vault Telephone
- Vault Undefined
- Vault Water
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Pipe and Cable
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Rail Road
- Retaining Wall
- Right of Way

ABBREVIATION

- AC Asphalt Concrete
- BC Beginning of Curve
- CONC Concrete
- CP Control Point
- CMP Corrugated Metal Pipe
- DWY Driveway
- EL Elevation
- EC End of Curve
- FL Flowline
- FD Found
- INV Invert
- PVC Polyvinyl Chloride
- RCP Reinforced Concrete Pipe
- TW Top of Wall

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel
- Rip Rap

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

BARRANCA CHANNEL (F09) CHANNEL REPAIR

TOPOGRAPHIC MAP

PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY

TO JAMBOREE ROAD

DATE OF SURVEY: 09/27/2021

MAPPING BY: J. RUSSO & CREW

OFFICE CHECK BY: A. VU

FIELD CHECK BY: M. LAFONTAINE, PLS

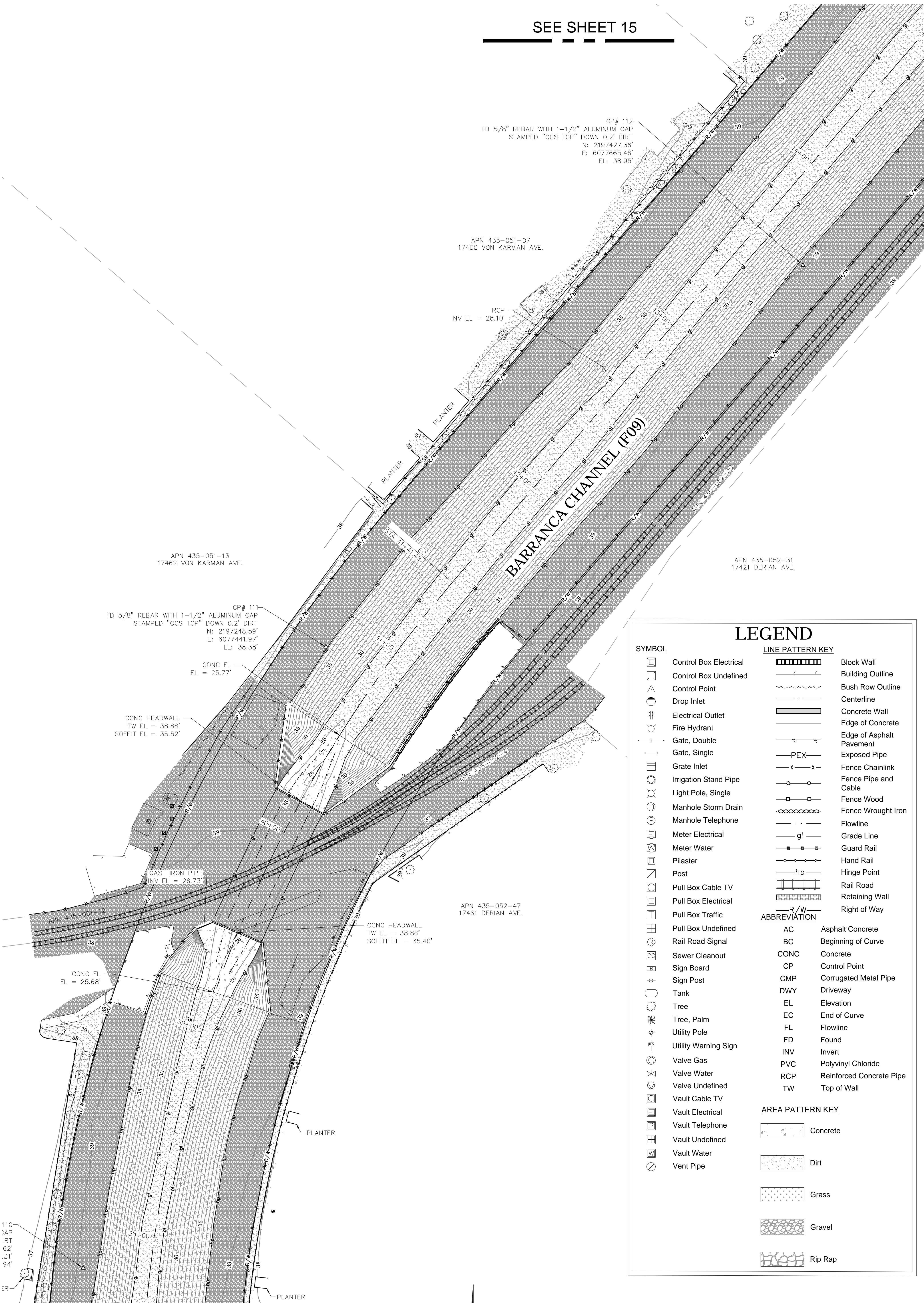
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FILE: BARRANCA_CHANNEL_TPOG_2021.DWG

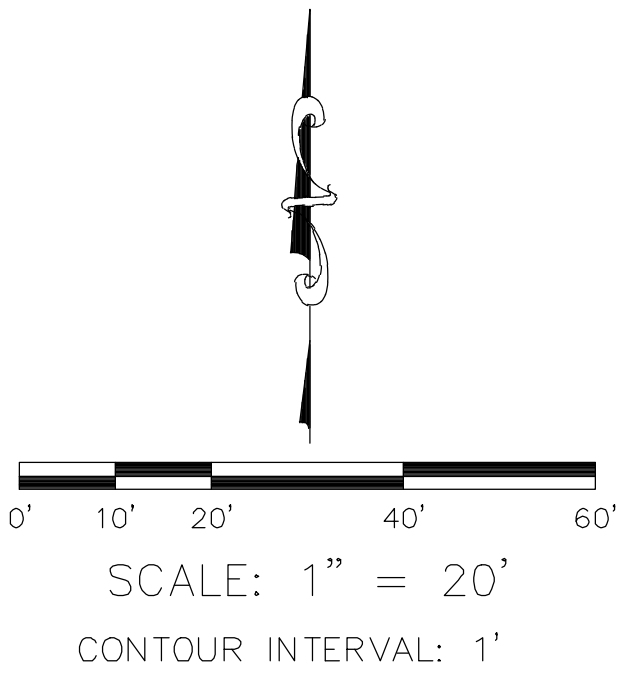
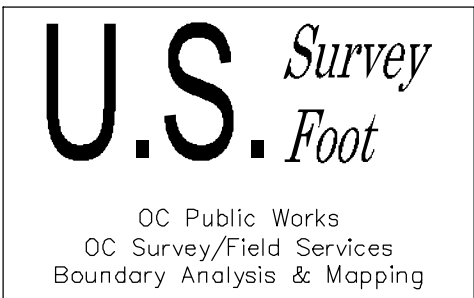
SHEET NO.
13
of
23

MARK	DATE	ITEM
REVISIONS		

SEE SHEET 15

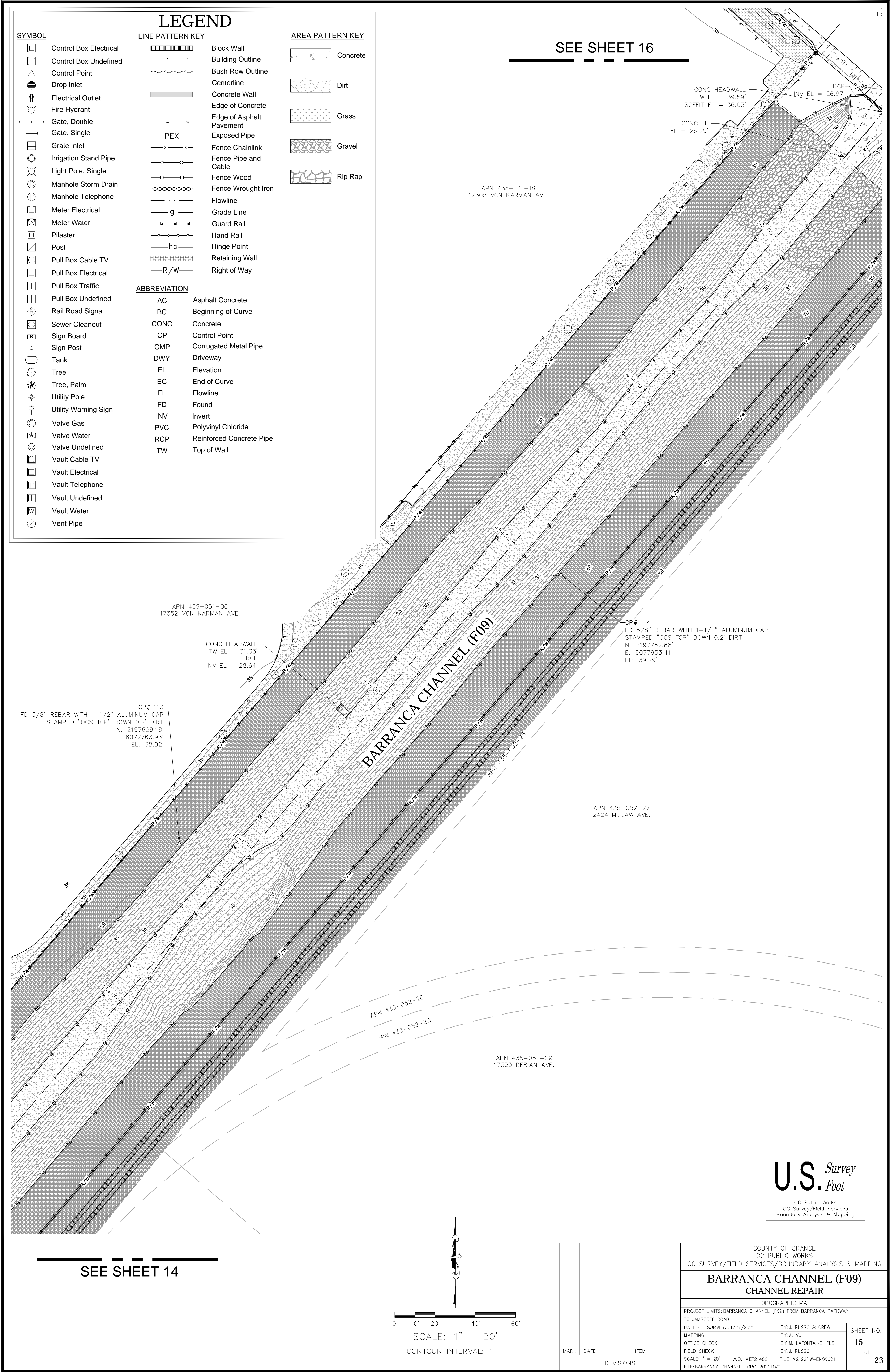


SEE SHEET 13



LEGEND		
SYMBOL	LINE PATTERN KEY	
	Control Box Electrical	Block Wall
	Control Box Undefined	Building Outline
	Control Point	Bush Row Outline
	Drop Inlet	Centerline
	Electrical Outlet	Concrete Wall
	Fire Hydrant	Edge of Concrete
	Gate, Double	Edge of Asphalt Pavement
	Gate, Single	Exposed Pipe
	Grate Inlet	Fence Chainlink
	Irrigation Stand Pipe	Fence Pipe and Cable
	Light Pole, Single	Fence Wood
	Manhole Storm Drain	Fence Wrought Iron
	Manhole Telephone	Flowline
	Meter Electrical	Grade Line
	Meter Water	Guard Rail
	Pilaster	Hand Rail
	Post	Hinge Point
	Pull Box Cable TV	Rail Road
	Pull Box Electrical	Retaining Wall
	Pull Box Traffic	Right of Way
	Pull Box Undefined	
	Rail Road Signal	
	Sewer Cleanout	
	Sign Board	
	Sign Post	
	Tank	
	Tree	
	Tree, Palm	
	Utility Pole	
	Utility Warning Sign	
	Valve Gas	
	Valve Water	
	Valve Undefined	
	Vault Cable TV	
	Vault Electrical	
	Vault Telephone	
	Vault Undefined	
	Vault Water	
	Vent Pipe	

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BARRANCA CHANNEL (F09) CHANNEL REPAIR			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: M. LAFONTAINE, PLS	
			FIELD CHECK		BY: J. RUSSO	
			SCALE: 1" = 20'		W.O. #EF21482	
			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG		FILE #2122PW-ENG0001	
REVISIONS		SHEET NO.		14 of 23		



SEE SHEET 17

APN 435-035-08
2361 MCGAW AVE.

BARRANCA CHANNEL (F09)

CP# 116
FD 5/8" REBAR WITH 1-1/2" ALUMINUM CAP
STAMPED "OCS TCP" DOWN 0.2' DIRT
N: 2198194.19'
E: 6078322.86'
EL: 39.70'

LEGEND

SYMBOL

- Control Box Electrical
- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Irrigation Stand Pipe
- Light Pole, Single
- Manhole Storm Drain
- Manhole Telephone
- Meter Electrical
- Meter Water
- Pilaster
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Rail Road Signal
- Sewer Cleanout
- Sign Board
- Sign Post
- Tank
- Tree
- Tree, Palm
- Utility Pole
- Utility Warning Sign
- Valve Gas
- Valve Water
- Valve Undefined
- Vault Cable TV
- Vault Electrical
- Vault Telephone
- Vault Undefined
- Vault Water
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Pipe and Cable
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Rail Road
- Retaining Wall
- Right of Way

ABBREVIATION

- AC Asphalt Concrete
- BC Beginning of Curve
- CONC Concrete
- CP Control Point
- CMP Corrugated Metal Pipe
- DWY Driveway
- EL Elevation
- EC End of Curve
- FL Flowline
- FD Found
- INV Invert
- PVC Polyvinyl Chloride
- RCP Reinforced Concrete Pipe
- TW Top of Wall

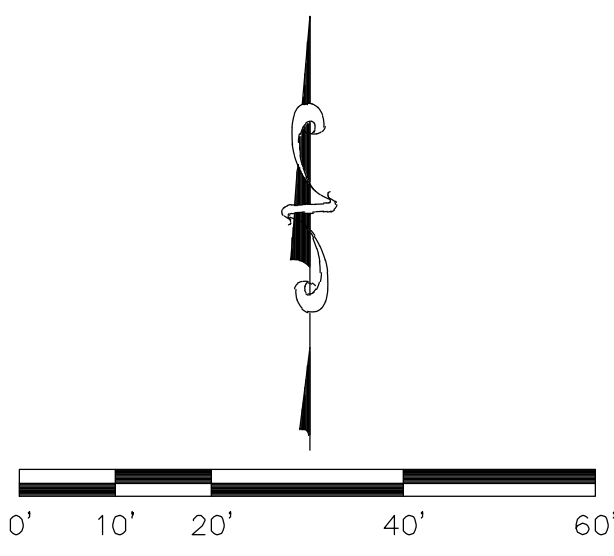
AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel
- Rip Rap

SEE SHEET 15

U.S. Survey
Foot

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

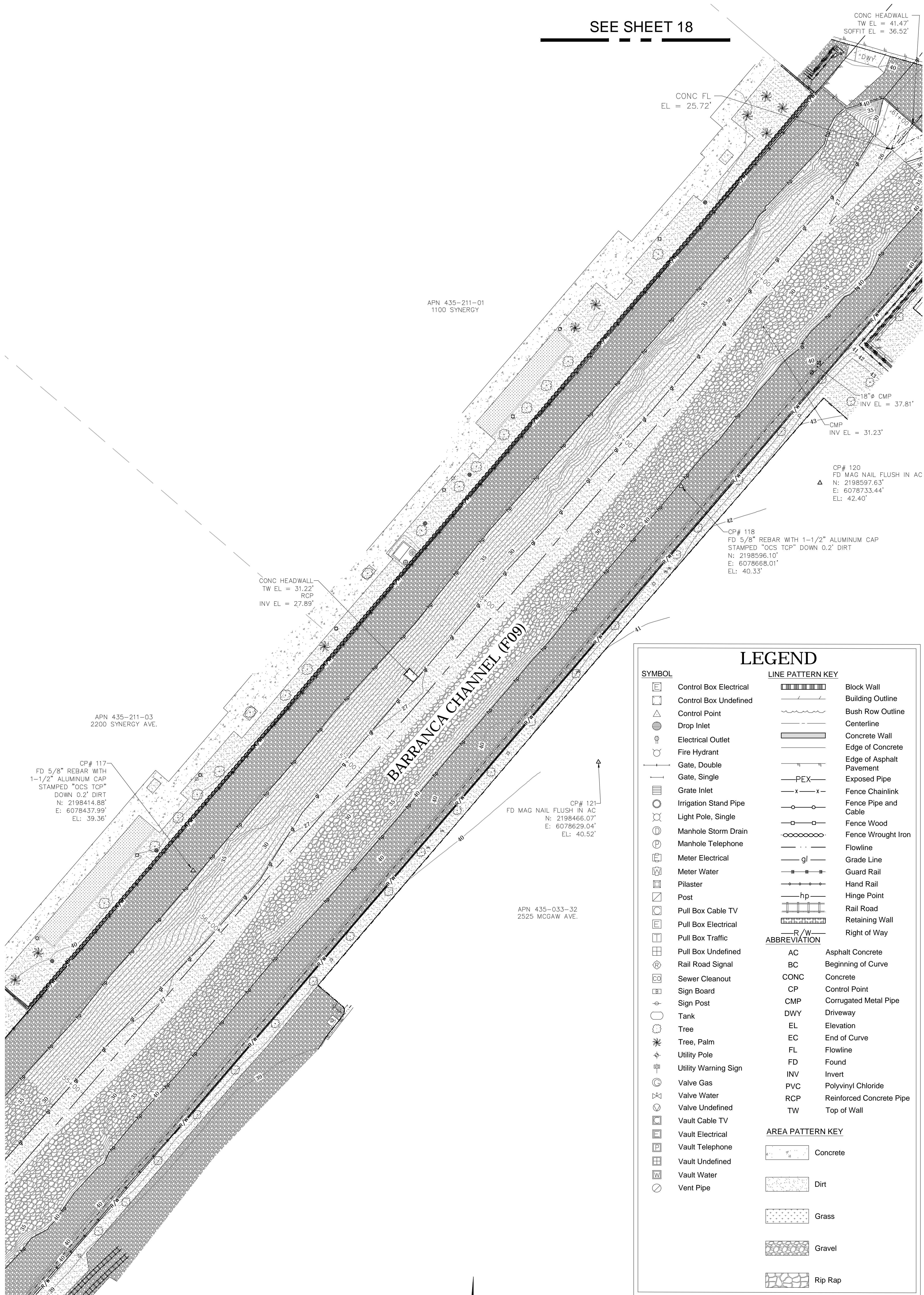


SCALE: 1" = 20'

CONTOUR INTERVAL: 1'

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		BARRANCA CHANNEL (F09) CHANNEL REPAIR	
		TOPOGRAPHIC MAP	
		PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBORREE ROAD	
		DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW
		MAPPING	BY: A. VJ
		OFFICE CHECK	BY: M. LAFONTAINE, PLS
		FIELD CHECK	BY: J. RUSSO
		SCALE: 1" = 20'	W.O. #EF21482
		FILE #2122PW-ENG0001	
		FILE: BARRANCA_CHANNEL_TOPO_2021.DWG	
MARK	DATE	ITEM	
REVISIONS			
		SHEET NO. 16 of 23	

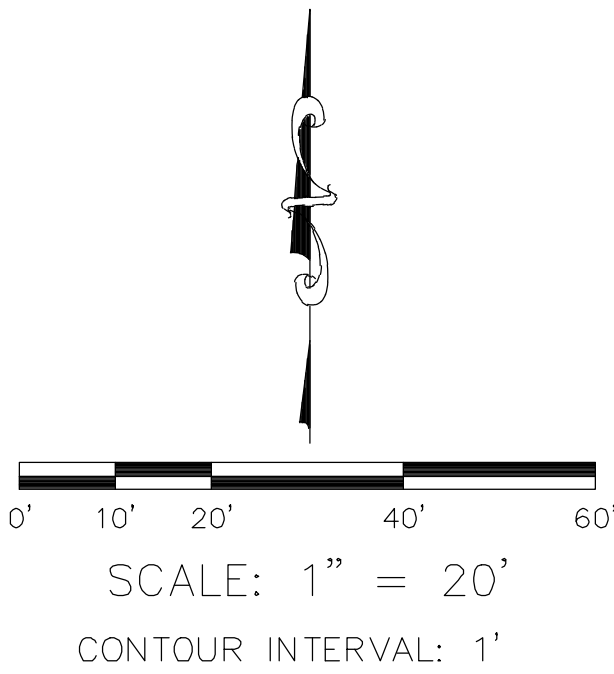
SEE SHEET 18



LEGEND

SYMBOL		LINE PATTERN KEY	
	Control Box Electrical		Block Wall
	Control Box Undefined		Building Outline
	Control Point		Bush Row Outline
	Drop Inlet		Centerline
	Electrical Outlet		Concrete Wall
	Fire Hydrant		Edge of Concrete
	Gate, Double		Edge of Asphalt Pavement
	Gate, Single		Exposed Pipe
	Grate Inlet		Fence Chainlink
	Irrigation Stand Pipe		Fence Pipe and Cable
	Light Pole, Single		Fence Wood
	Manhole Storm Drain		Fence Wrought Iron
	Manhole Telephone		Flowline
	Meter Electrical		Grade Line
	Meter Water		Guard Rail
	Pilaster		Hand Rail
	Post		Hinge Point
	Pull Box Cable TV		Rail Road
	Pull Box Electrical		Retaining Wall
	Pull Box Traffic		Right of Way
	Pull Box Undefined	ABBREVIATION	
	Rail Road Signal	AC	Asphalt Concrete
	Sewer Cleanout	BC	Beginning of Curve
	Sign Board	CONC	Concrete
	Sign Post	CP	Control Point
	Tank	CMP	Corrugated Metal Pipe
	Tree	DWY	Driveway
	Tree, Palm	EL	Elevation
	Utility Pole	EC	End of Curve
	Utility Warning Sign	FL	Flowline
	Valve Gas	FD	Found
	Valve Water	INV	Invert
	Valve Undefined	PVC	Polyvinyl Chloride
	Vault Cable TV	RCP	Reinforced Concrete Pipe
	Vault Electrical	TW	Top of Wall
	Vault Telephone	AREA PATTERN KEY	
	Vault Undefined		Concrete
	Vault Water		Dirt
	Vent Pipe		Grass
			Gravel
			Rip Rap

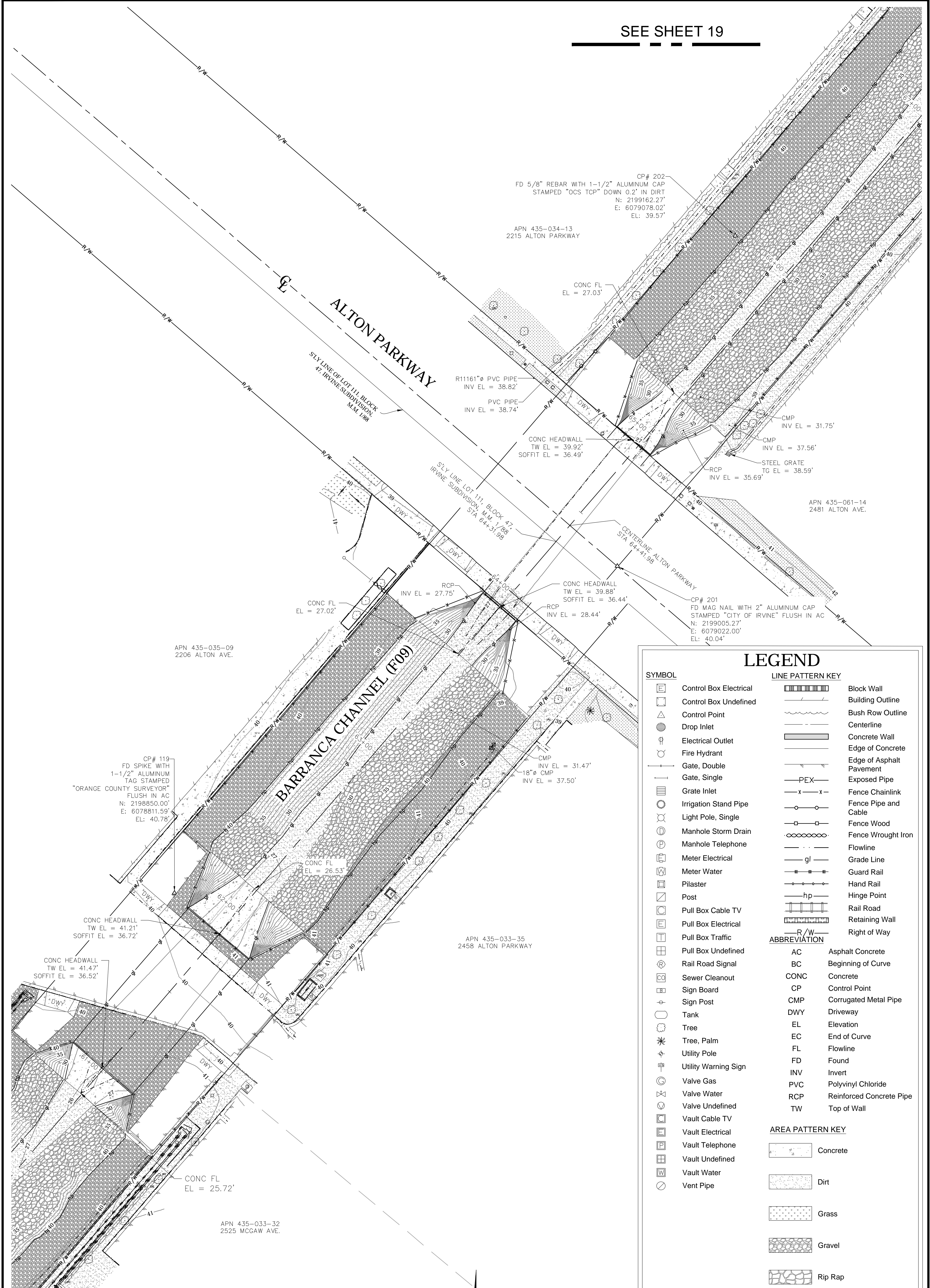
U.S. Survey Foot
OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping



SEE SHEET 16

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
BARRANCA CHANNEL (F09) CHANNEL REPAIR		
TOPOGRAPHIC MAP		
PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD		
DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW	SHEET NO. 17 of 23
MAPPING	BY: A. VU	
OFFICE CHECK	BY: M. LAFONTAINE, PLS	
FIELD CHECK	BY: J. RUSSO	
SCALE: 1" = 20'	W.O. #EF21482	
FILE: BARRANCA_CHANNEL_TPOG_2021.DWG	FILE # 2122PW-ENG00001	

SEE SHEET 19



LEGEND

SYMBOL		LINE PATTERN KEY	
	Control Box Electrical		Block Wall
	Control Box Undefined		Building Outline
	Control Point		Bush Row Outline
	Drop Inlet		Centerline
	Electrical Outlet		Concrete Wall
	Fire Hydrant		Edge of Concrete
	Gate, Double		Edge of Asphalt Pavement
	Gate, Single		Exposed Pipe
	Grate Inlet		Fence Chainlink
	Irrigation Stand Pipe		Fence Pipe and Cable
	Light Pole, Single		Fence Wood
	Manhole Storm Drain		Fence Wrought Iron
	Manhole Telephone		Flowline
	Meter Electrical		Grade Line
	Meter Water		Guard Rail
	Pilaster		Hand Rail
	Post		Hinge Point
	Pull Box Cable TV		Rail Road
	Pull Box Electrical		Retaining Wall
	Pull Box Traffic		Right of Way
	Pull Box Undefined		
	Rail Road Signal		
	Sewer Cleanout		
	Sign Board		
	Sign Post		
	Tank		
	Tree		
	Tree, Palm		
	Utility Pole		
	Utility Warning Sign		
	Valve Gas		
	Valve Water		
	Valve Undefined		
	Vault Cable TV		
	Vault Electrical		
	Vault Telephone		
	Vault Undefined		
	Vault Water		
	Vent Pipe		

ABBREVIATION		
AC	Asphalt Concrete	
BC	Beginning of Curve	
CONC	Concrete	
CP	Control Point	
CMP	Corrugated Metal Pipe	
DWY	Driveway	
EL	Elevation	
EC	End of Curve	
FL	Flowline	
FD	Found	
INV	Invert	
PVC	Polyvinyl Chloride	
RCP	Reinforced Concrete Pipe	
TW	Top of Wall	

AREA PATTERN KEY	
	Concrete
	Dirt
	Grass
	Gravel
	Rip Rap

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

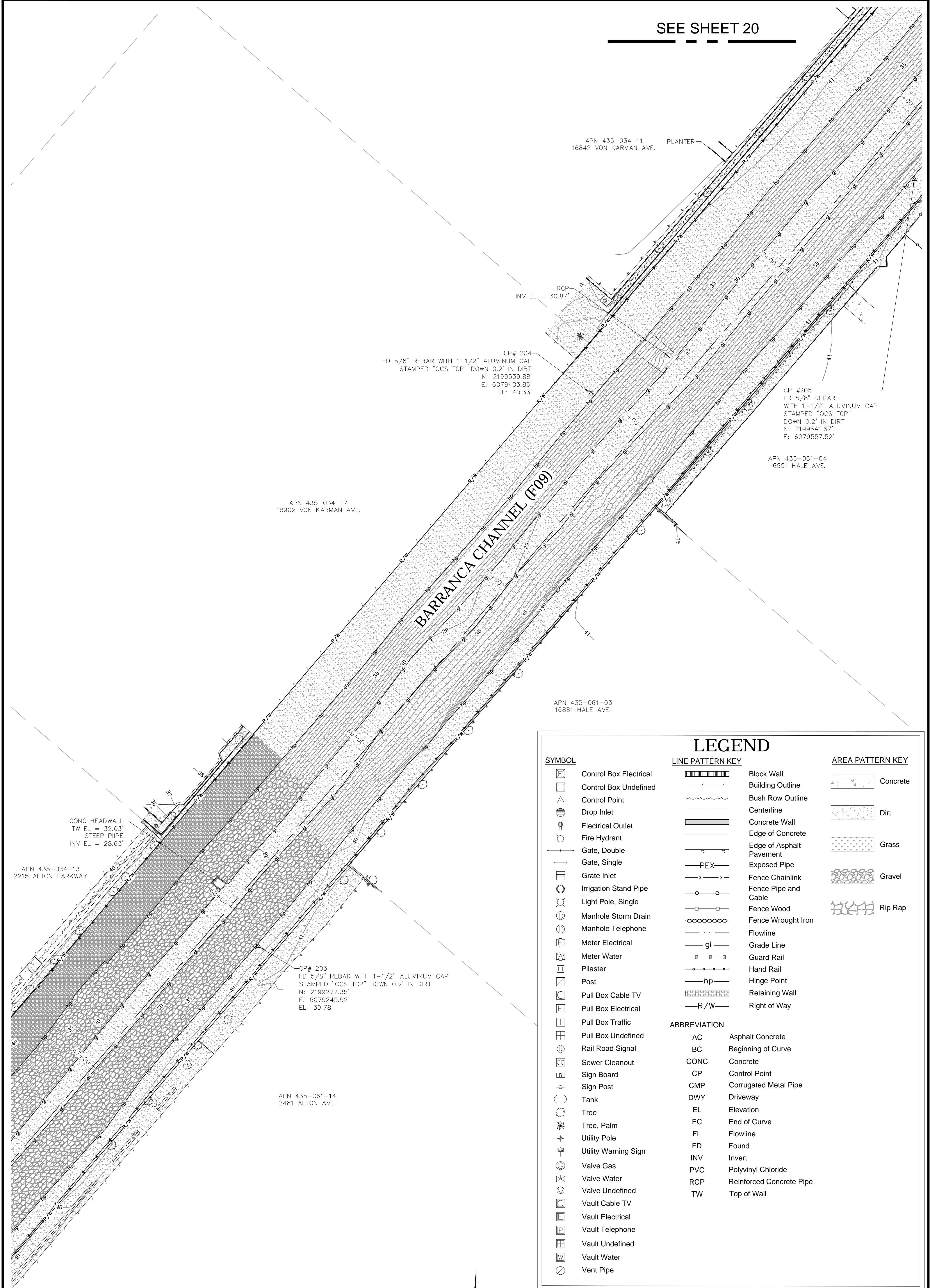
0' 10' 20' 40' 60'
SCALE: 1" = 20'
CONTOUR INTERVAL: 1'

SEE SHEET 17

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
BARRANCA CHANNEL (F09) CHANNEL REPAIR		
TOPOGRAPHIC MAP		
PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD		
DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW	SHEET NO. 18 of 23
MAPPING	BY: A. VJ	
OFFICE CHECK	BY: M. LAFONTAINE, PLS	
FIELD CHECK	BY: J. RUSSO	
SCALE: 1" = 20'	W.O. #EF21482	
FILE: BARRANCA_CHANNEL_TOPG_2021.DWG		
FILE # 2122PW-ENG0001		

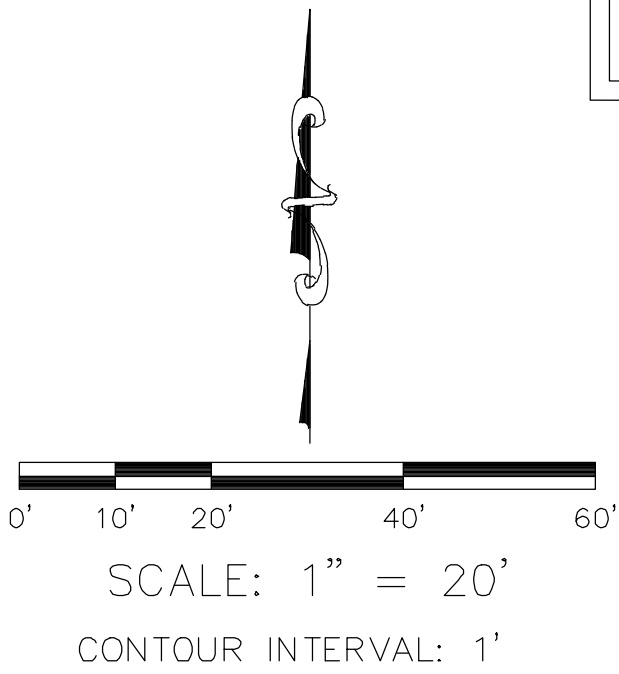
MARK	DATE	ITEM
REVISIONS		

SEE SHEET 20



SEE SHEET 18

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



LEGEND

SYMBOL	LINE PATTERN KEY	AREA PATTERN KEY

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
CONC	Concrete
CP	Control Point
CMP	Corrugated Metal Pipe
DWY	Driveway
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BARRANCA CHANNEL (F09) CHANNEL REPAIR			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY			
			TO JAMBOREE ROAD			
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: M. LAFONTAINE, PLS	
			FIELD CHECK		BY: J. RUSSO	
			SCALE: 1" = 20'		W.O. #EF21482	
			FILE: BARRANCA_CHANNEL_TPO_2021.DWG		FILE # 2122PW-ENG0001	
MARK	DATE	ITEM	REVISIONS			

SEE SHEET 21

APN 435-034-09
16702 VON KARMAN AVE.

APN 435-034-18
16782 VON KARMAN AVE.

APN 435-061-07
16731 HALE AVE.

APN 435-061-06
16761 HALE AVE.

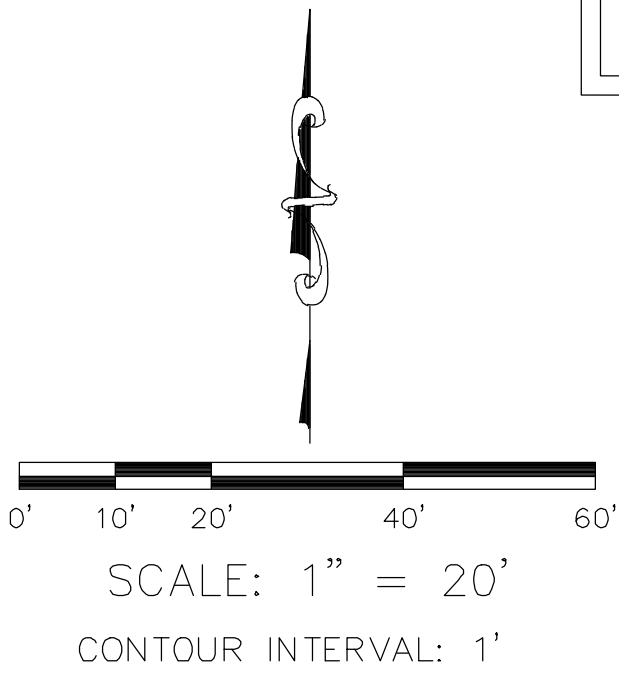
APN 435-034-11
16842 VON KARMAN AVE.

APN 435-061-17
16811 HALE AVE.

APN 435-061-04
16851 HALE AVE.

SEE SHEET 19

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



BARRANCA CHANNEL (F09)

LEGEND

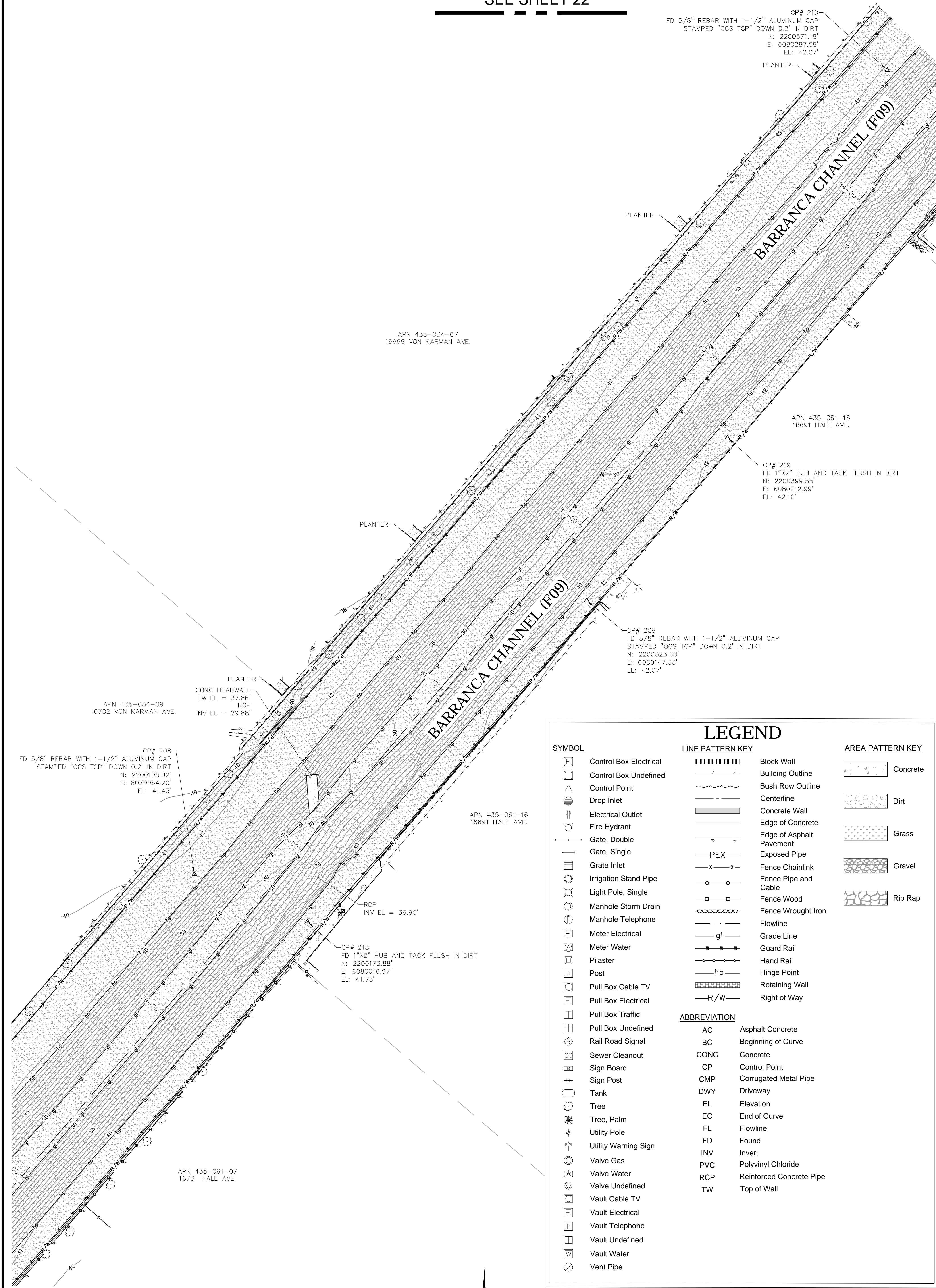
SYMBOL	LINE PATTERN KEY	AREA PATTERN KEY

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
CONC	Concrete
CP	Control Point
CMP	Corrugated Metal Pipe
DWY	Driveway
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
BARRANCA CHANNEL (F09) CHANNEL REPAIR		
TOPOGRAPHIC MAP		
PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD		
DATE OF SURVEY: 09/27/2021	BY: J. RUSSO & CREW	SHEET NO. 20 of 23
MAPPING	BY: A. VJ	
OFFICE CHECK	BY: M. LAFONTAINE, PLS	
FIELD CHECK	BY: J. RUSSO	
SCALE: 1" = 20'	W.O. #EF21482 FILE #2122PW-ENG0001 FILE: BARRANCA_CHANNEL_TOPO_2021.DWG	

MARK	DATE	ITEM
REVISIONS		

SEE SHEET 22



SEE SHEET 20

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'



SYMBOL

- Control Box Electrical
- Control Box Undefined
- Control Point
- Drop Inlet
- Electrical Outlet
- Fire Hydrant
- Gate, Double
- Gate, Single
- Grate Inlet
- Irrigation Stand Pipe
- Light Pole, Single
- Manhole Storm Drain
- Manhole Telephone
- Meter Electrical
- Meter Water
- Pilaster
- Post
- Pull Box Cable TV
- Pull Box Electrical
- Pull Box Traffic
- Pull Box Undefined
- Rail Road Signal
- Sewer Cleanout
- Sign Board
- Sign Post
- Tank
- Tree
- Tree, Palm
- Utility Pole
- Utility Warning Sign
- Valve Gas
- Valve Water
- Valve Undefined
- Vault Cable TV
- Vault Electrical
- Vault Telephone
- Vault Undefined
- Vault Water
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Building Outline
- Bush Row Outline
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Exposed Pipe
- Fence Chainlink
- Fence Pipe and Cable
- Fence Wood
- Fence Wrought Iron
- Flowline
- Grade Line
- Guard Rail
- Hand Rail
- Hinge Point
- Retaining Wall
- Right of Way

AREA PATTERN KEY

- Concrete
- Dirt
- Grass
- Gravel
- Rip Rap

ABBREVIATION

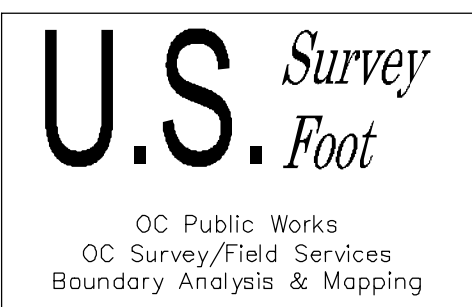
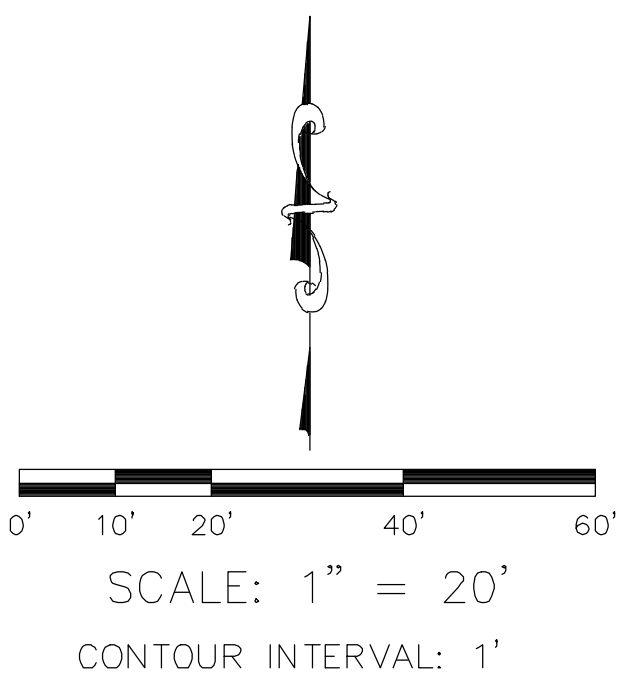
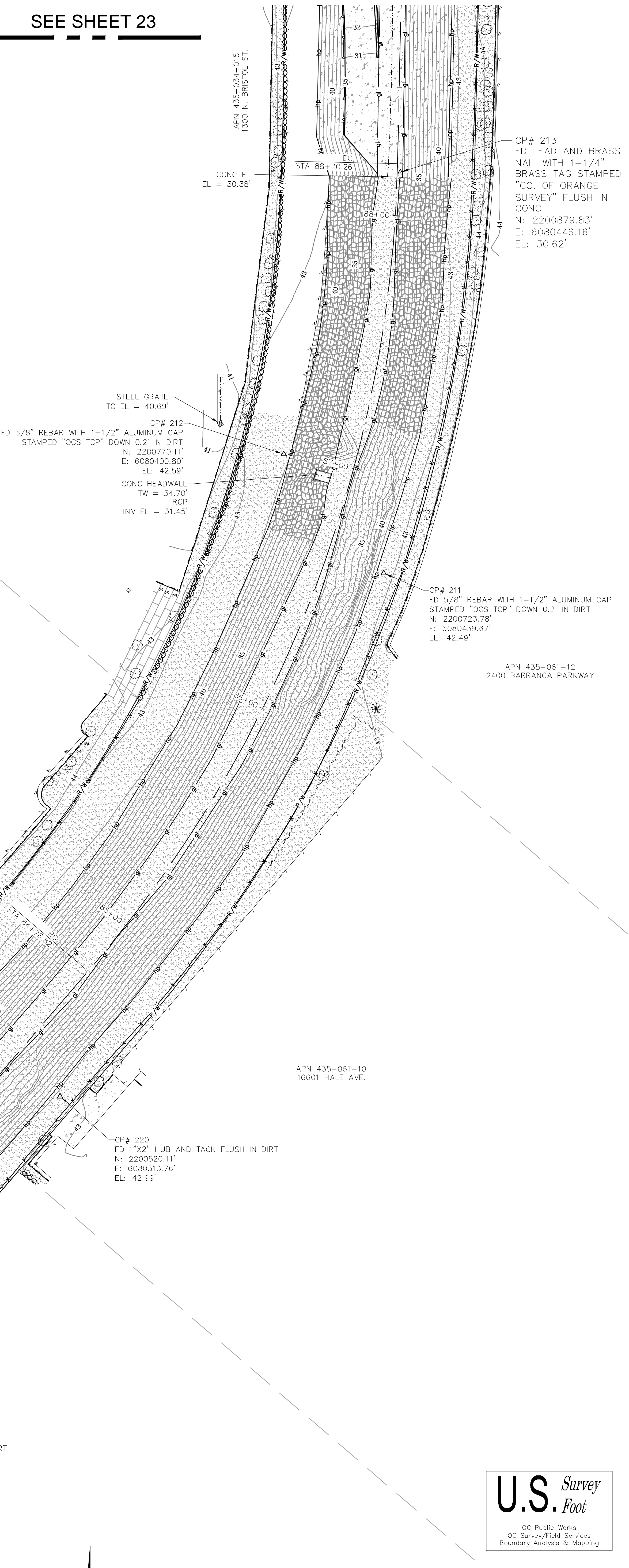
AC	Asphalt Concrete
BC	Beginning of Curve
CONC	Concrete
CP	Control Point
CMP	Corrugated Metal Pipe
DWY	Driveway
EL	Elevation
EC	End of Curve
FL	Flowline
FD	Found
INV	Invert
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
TW	Top of Wall

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			BARRANCA CHANNEL (F09) CHANNEL REPAIR			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD			
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW	
			MAPPING		BY: A. VU	
			OFFICE CHECK		BY: M. LAFONTAINE, PLS	
			FIELD CHECK		BY: J. RUSSO	
MARK	DATE	ITEM	SCALE: 1" = 20'		W.O. #EF21482	FILE # 2122PW-ENG0001
		REVISIONS	FILE: BARRANCA_CHANNEL_TOPO_2021.DWG			
			SHEET NO. 21 of 2			

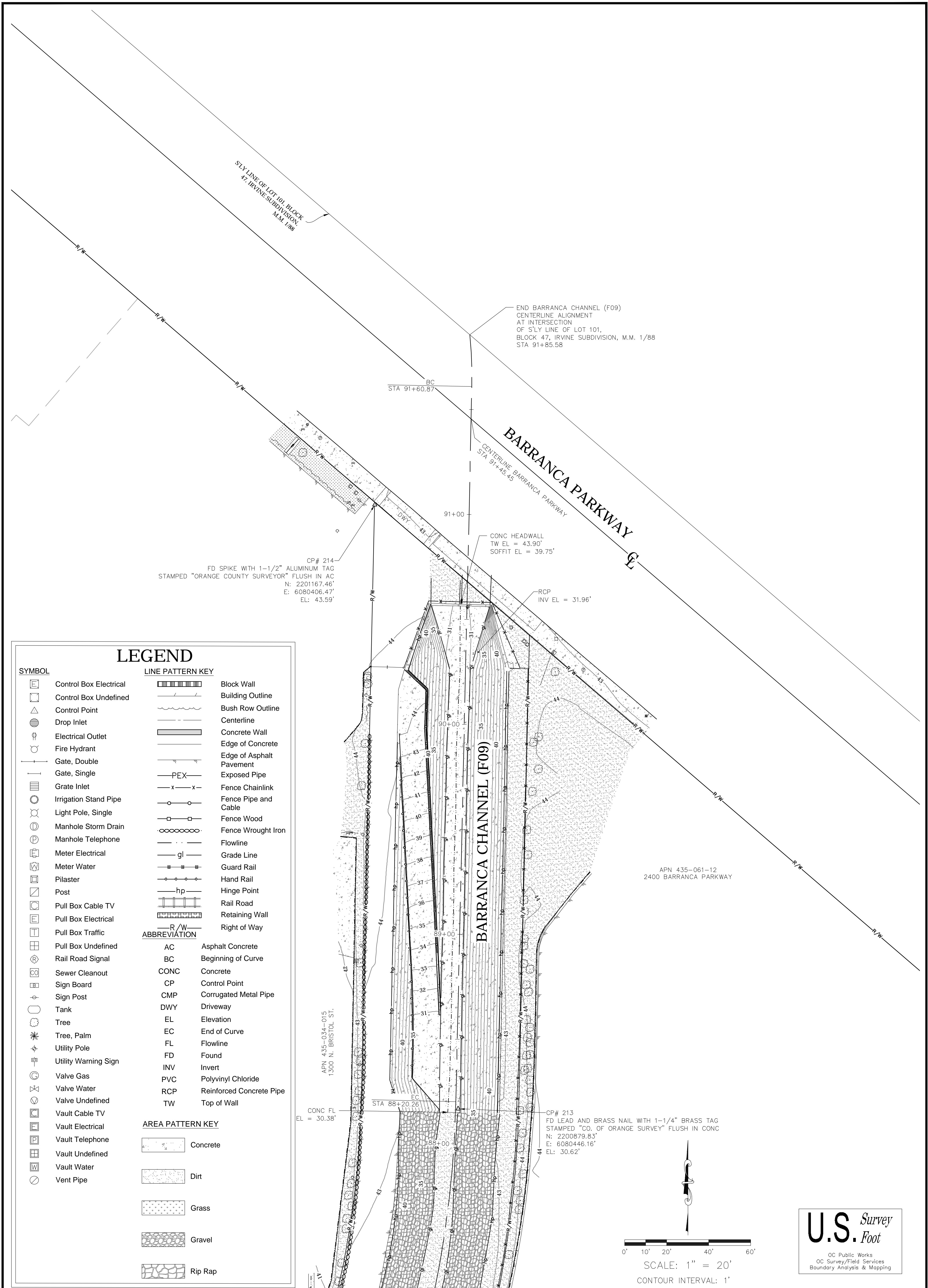
LEGEND

SYMBOL	LINE PATTERN KEY	AREA PATTERN KEY

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
CONC	Concrete
CP	Control Point
CMP	Corrugated Metal Pipe
DWY	Driveway
EL	Elevation
EC	End of Curve
FL	Flowline
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INV	Invert
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			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			BARRANCA CHANNEL (F09) CHANNEL REPAIR				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW		SHEET NO. 22 of 23
			MAPPING		BY: A. VU		
OFFICE CHECK		BY: M. LAFONTAINE, PLS					
MARK	DATE	ITEM	FIELD CHECK		BY: J. RUSSO		
REVISIONS			SCALE: 1" = 20'	W.O. #EF21482	FILE #2122PW-ENG0001		
			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG				



SEE SHEET 22

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			BARRANCA CHANNEL (F09) CHANNEL REPAIR				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS: BARRANCA CHANNEL (F09) FROM BARRANCA PARKWAY TO JAMBOREE ROAD				
			DATE OF SURVEY: 09/27/2021		BY: J. RUSSO & CREW		SHEET NO. 23 of 23
			MAPPING		BY: A. VU		
			OFFICE CHECK		BY: M. LAFONTAINE, PLS		
FIELD CHECK		BY: J. RUSSO					
MARK	DATE	ITEM	SCALE: 1" = 20' W.O. #EF21482 FILE #2122PW-ENG0001				
REVISIONS			FILE: BARRANCA_CHANNEL_TOPO_2021.DWG				