

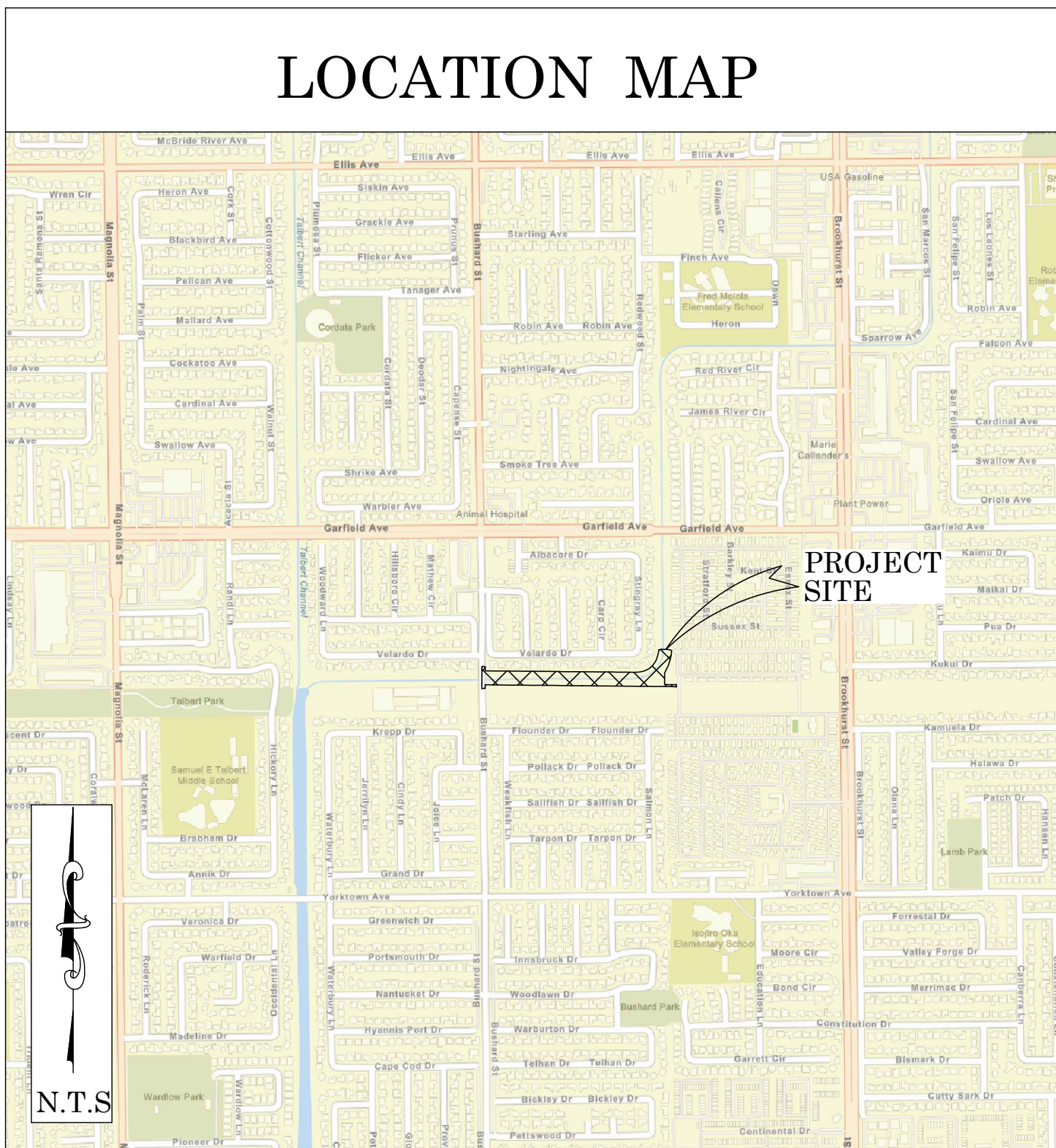


OC PUBLIC WORKS DEPARTMENT
JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS
MICHAEL LAFONTAINE, DEPUTY COUNTY SURVEYOR
FOUNTAIN VALLEY CHANNEL(D05)



WALL REHABILITATION

LOCATION MAP



SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 25 DAY OF JUNE, 2024.

DocuSigned by:
Elliott Medina
Elliott Medina

ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 25 DAY OF JUNE, 2024.

MICHAEL LAFONTAINE, DEPUTY COUNTY SURVEYOR
PLS. 8970

DocuSigned by:
Michael Lafontaine
Michael Lafontaine

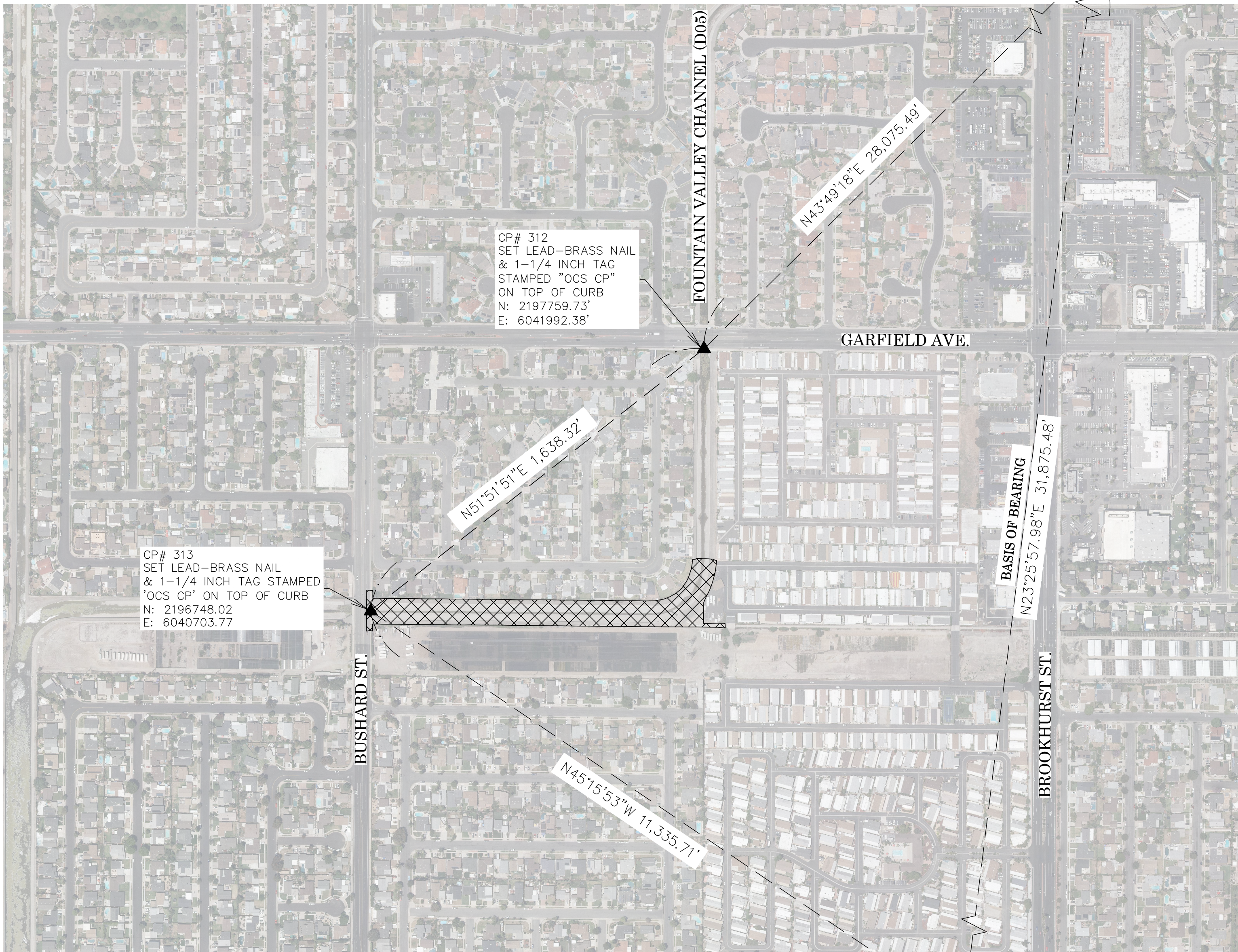
BY: JESOM MORENO, SENIOR LAND SURVEYOR
PLS. 8478



U.S. Survey
Foot

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

TOPOGRAPHIC MAPPING PROJECT



FOUND CGPS "SACY"
N: 2218016.19
E: 6061432.27
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 (FVPK) AND (SACY) BEING NORTH 23°25'57.98" EAST 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 1.00002250.

THIS COMBINATION FACTOR WAS HELD AT: CP#312
N: 2197759.73 E: 6041992.38 EL: 15.03'

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

VERTICAL DATUM

O.C.S. BM. FV-54-70 ELEV. = 16.695' YEAR LEVELED: 2005

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

DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "FV-54-70", SET IN THE SOUTHEAST CORNER OF A 6 FT. BY 11 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF BROOKHURST STREET AND GARFIELD AVENUE, 1 FT. NORTHERLY OF THE NORTH CURB ALONG GARFIELD AVENUE AND 95 FT. EASTERLY OF THE PROLONGATION OF THE EAST CURB ALONG BROOKHURST STREET. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

NOTES

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

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET 1	1	TITLE SHEET
SHEET 2	2	BOUNDARY SHEET
SHEET 3-5	3-5	TOPOGRAPHIC MAP

BASIS OF STATIONING

C/L CONSTRUCTION FOUNTAIN VALLEY CHANNEL (D05) BASED ON FLOWLINE CONDITIONS PER THIS SURVEY. HELD AT THE INTERSECTION OF BUSHARD AND (D02) PER AS-BUILT PLAN D05-101-3A

PURPOSE OF SURVEY

A TOPOGRAPHIC SURVEY OF A PORTION OF FOUNTAIN VALLEY CHANNEL WAS REQUESTED TO EVALUATE THE CONDITION OF THE CHANNEL WALLS.

COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
FOUNTAIN VALLEY CHANNEL(D05) WALL REHABILITATION			
TITLE SHEET			
PROJECT LIMITS: UPSTREAM OF BUSHARD STREET TO APPROX 800 FT DOWNSTREAM OF GARFIELD AVENUE			
DATE OF SURVEY: 04/26/2024		BY: K.MARTINEZ & CREW	
MAPPING		BY: J.LISLAS	
OFFICE CHECK		BY: J.MORENO, PLS	
FIELD CHECK		BY: K.MARTINEZ & CREW	
SCALE: N.T.S.		W.O. #EF21460	FILE #2324FW-CM0011
FILE: FVG_TOPO_2024.DWG			
MARK	DATE	ITEM	SHEET NO.
REVISIONS			1 of 5

MONUMENT NOTES

- 1

FD 2 INCH IRON PIPE & 3/4 INCH TAG, PER (R5), DN. 1.0’ IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF BROOKHURST ST. AND GARFIELD AVE.
- 2

FD 2 INCH IRON PIPE & 1–3/4 INCH TAG STAMPED ‘OCS’, PER (R3), DN. 0.70’ IN DIRT, ACCEPTED AS THE ANGLE POINT OF FOUNTAIN VALLEY CHANNEL
- 3

FD PUNCHED SPIKE & WASHER STAMPED "PLS 7914" PER (R1) AND (R2), FLUSH WITH A.C., S51°47’44"E 0.10’ FROM CENTERLINE INTERSECTION OF TALBERT CHANNEL AND YORKTOWN AVE.
- 4

FD GEAR SPIKE SHANK, IN LIEU OF GEAR SPIKE AND WASHER STAMPED "LS 5411", PER (R4), DN. 0.15’ IN A.C. ALONG THE CENTERLINE OF THE FOUNTAIN VALLEY CHANNEL S0017°00" 0.08’ FROM THE CENTERLINE INTERSECTION OF GARFIELD AVENUE AND FOUNTAIN VALLEY CHANNEL
- 5

FD GEAR SPIKE & 1–1/2 INCH WASHER, PER (R3), STAMPED ‘CITY OF HB’ FLUSH WITH A.C., ACCEPTED AS THE CENTERLINE INTERSECTION OF BUSHARD ST. AND GARFIELD AVE.
- 6

FD 2 INCH IRON PIPE & 3/4 INCH TAG STAMPED ‘CITY OF HB RCE 10655’, PER (R3), DN. 1.20’ IN WELL, ACCEPTED AS THE CENTERLINE INTERSECTION OF YORKTOWN AVE. AND MAGNOLIA ST.
- 7

FD GEAR SPIKE & 1–1/2 INCH WASHER STAMPED ‘LS 5662’, PER (R5), FLUSH WITH A.C., ACCEPTED AS THE CENTERLINE INTERSECTION OF YORKTOWN AVE. AND BUSHARD ST.
- 8

FD 2 INCH PUNCHED BRASS DISK, PER (R3), DN. 0.80’ IN WELL ACCEPTED AS THE CENTERLINE INTERSECTION OF MAGNOLIA ST. AND GARFIELD AVE.
- 9

FD BRASS NAIL & 1–3/8 INCH TAG, PER (R3), STAMPED ‘OCS’ FLUSH WITH SIDEWALK, ACCEPTED AS A POINT ON LINE ON SOUTHERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL
- 10

FD 2 INCH IRON PIPE & 1–3/4 INCH TAG STAMPED ‘OCS’, PER (R3), DN. 1.60’ IN DIRT, ACCEPTED AS POINT ALONG THE EASTERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL, N00°08’39"E 0.27 FROM ESTABLISHED B.C.
- 11

FD 2 INCH IRON PIPE & 3/4 INCH TAG, PER (R10), STAMPED ‘LS 2921’ DN. 0.50’ IN DIRT, ACCEPTED AS A POINT ON LINE ON NORTHERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL
- 12

FD 2 INCH IRON PIPE & 3/4 INCH TAG, PER (R10), STAMPED ‘LS 2921’ DN. 2.20’ IN DIRT, N11°41’41"E 0.16 FROM NORTHERLY B.C. RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL

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 1.00002250.

COMBINATION FACTOR WAS HELD AT POINT NUMBER 312
N: 2197759.73', E: 6041992.38', ELEVATION= 15.03'

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

REFERENCES

- (R1) = TRACT 17239, M.M. 926/19–24
- (R2) = CORNER RECORD, C.R. 2016–0380
- (R3) = RECORD OF SURVEY 84–1226, R.S.B. 109/31–32
- (R4) = CORNER RECORD, C.R. 2009–2265B
- (R5) = CORNER RECORD, C.R. 2005–1036
- (R6) = RECORD OF SURVEY 88–1013, R.S.B. 122/25–27
- (R7) = FOUNTAIN VALLEY CHANNEL CONSTRUCTION PLANS D02–101–4A
- (R8) = FOUNTAIN VALLEY CHANNEL CONSTRUCTION PLANS D05–101–7R
- (R9) = CORNER RECORD, C.R. 2008–3271
- (R10) = TRACT 4852, M.M. 175/23–25

ESTABLISHMENT NOTES

- A

ESTABLISHED THE CENTERLINE OF GARFIELD AVENUE BY HOLDING A LINE BETWEEN MONUMENT

1

 AND

5
- B

ESTABLISHED THE CENTERLINE OF FOUNTAIN VALLEY CHANNEL BY HOLDING A LINE BETWEEN MONUMENT

2

 AND

4
- C

ESTABLISHED THE CENTERLINE INTERSECTION OF GARFIELD AVENUE AND FOUNTAIN VALLEY CHANNEL BY INTERSECTION OF ESTABLISHMENT

A

 AND THE NORTHERLY PROLONGATION OF LINE ESTABLISHMENT

B
- D

ESTABLISHED THE SOUTHERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL BY HOLDING A LINE BETWEEN MONUMENT

2

 AND

9
- E

ESTABLISHED THE NORTHERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL BY HOLDING A RECORD DISTANCE OF 100’ PER R NORTHERLY FROM ESTABLISHMENT

D
- F

ESTABLISHED THE WESTERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL BY HOLDING A RECORD DISTANCE OF 43’ PER R WESTERLY FROM ESTABLISHMENT

E
- G

ESTABLISHED THE NORTHERLY AND WESTERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY CHANNEL HOLDING RECORD RADIUS OF 155.04’ ESTABLISHMENT

E

 AND

F
- H

ESTABLISHED THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF FOUNTAIN VALLEY CHANNEL EAST OF ESTABLISHMENT

B

 BY HOLDING A CONCENTRIC EASTERLY AND SOUTHEASTERLY OF ESTABLISHMENT

C

, A RECORD DISTANCE OF 91.00’ PER R3
- I

ESTABLISHED THE NORTHERLY PROLONGATION OF THE EASTERLY RIGHT-OF-WAY OF FOUNTAIN VALLEY BY HOLDING A POINT ALONG A LINE PARALLEL SOUTHERLY OF ESTABLISHMENT

A

, A RECORD DISTANCE OF 30.00’ AND EAST A DISTANCE 46.00’ FROM THE CENTERLINE OF FOUNTAIN VALLEY CHANNEL PER R3
- J

ESTABLISHED THE EASTERLY OF RIGHT-OF-WAY LINE OF FOUNTAIN VALLEY CHANNEL BY HOLDING A LINE BETWEEN THE NORTHERLY TERMINUS OF ESTABLISHMENT

H

 AND

I
- | LINE TABLE | | | |
|------------|-------------|-------------------|-----------------|
| LINE # | BEARING | MEASURED DISTANCE | RECORD DISTANCE |
| L1 | N00°16’55"E | 1119.05' | 1118.87' (R3) |
| L2 | N00°16’55"E | 109.95' | 109.92' (R3) |
| L3 | N89°43’05"W | 48.00' | 48.00' (R3) |
| L4 | N89°43’05"W | 246.04' | 246.04' (R3) |
- | CURVE TABLE | | | | | | |
|-------------|-----------|---------|---------|----------------|---------------|---------------|
| CURVE # | DELTA | RADIUS | LENGTH | RECORD DELTA | RECORD RADIUS | RECORD LENGTH |
| C1 | 90°15’45" | 155.04' | 244.24' | 90°15’16" (R3) | 155.04' (R3) | 244.22' (R3) |
| C2 | 36°23’56" | 246.04' | 156.30' | 36°23’43" (R3) | 246.04' (R3) | 156.29' (R3) |
-
-
-
- NOTES
- ALL BOUNDARY LINES NOT SHOWN IN BOLD ARE FOR GRAPHICAL REPRESENTATION ONLY.

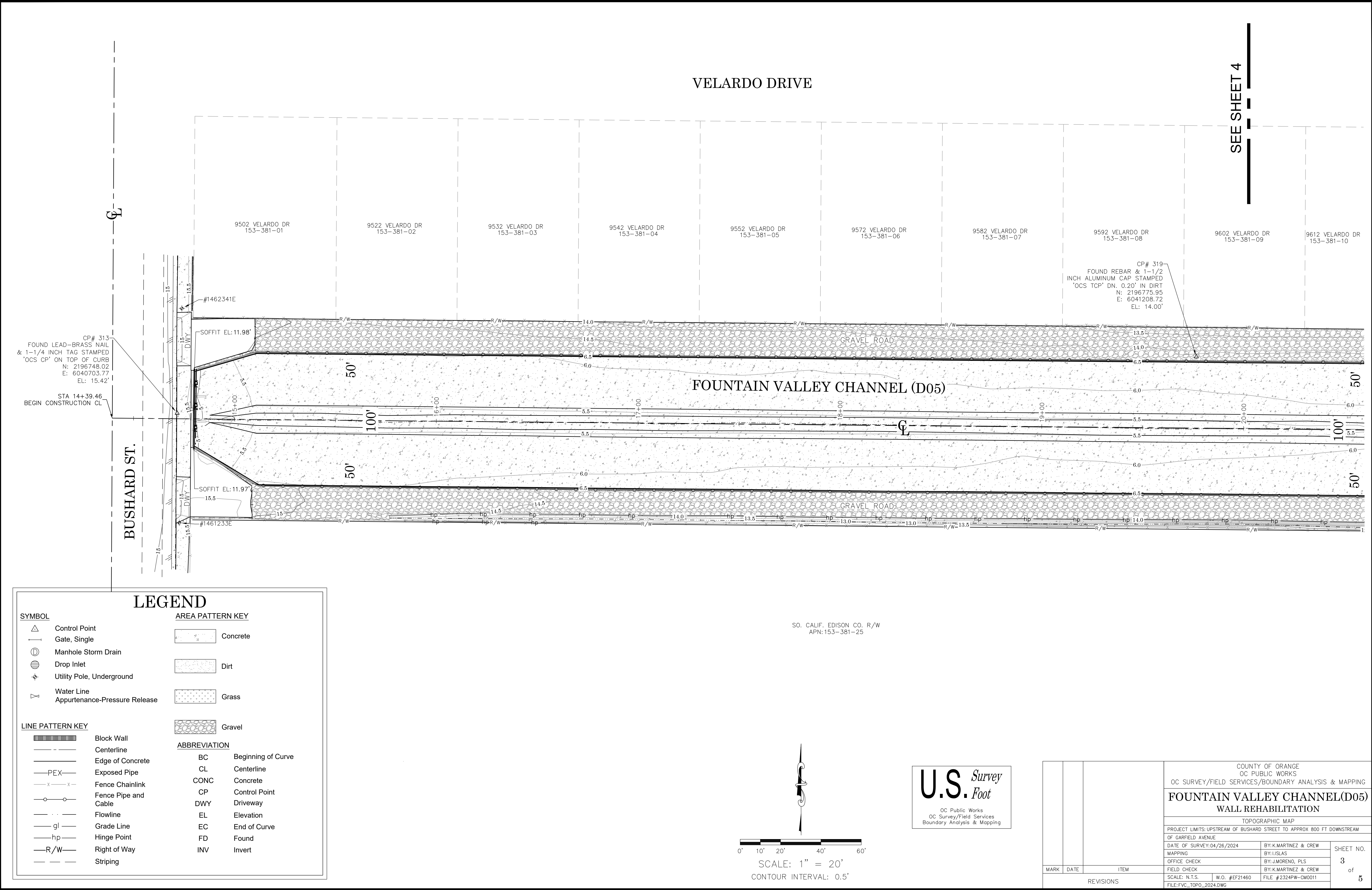
RECORD DISTANCES SHOWN HEREON ARE AS THEY APPEAR ON THE DOCUMENT OF RECORD. DISTANCES MAY BE EITHER GRID OR GROUND, AS PER SAID RECORD.

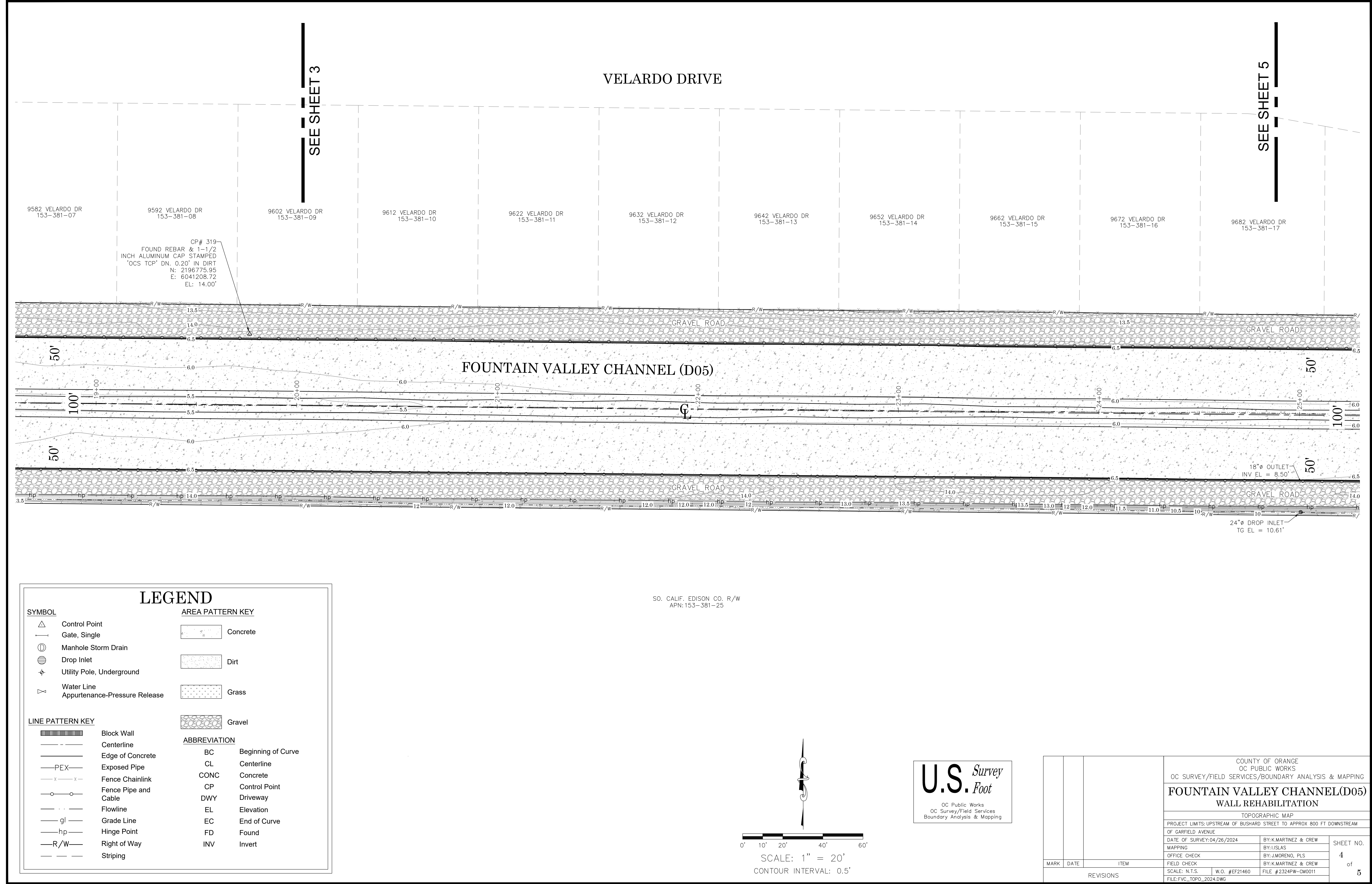
REFERENCE DOCUMENTS IN THE REFERENCE LEGEND ARE LIVE HYPERLINKS TO SAID DOCUMENT.

MONUMENT SYMBOLS CONTAIN LIVE HYPERLINKS TO IMAGES, IF THEY EXIST, OF RESPECTIVE MONUMENT.
- LEGEND
- FOUND MONUMENT AS NOTED

SEARCHED FOUND NOTHING
-
-
- | | | | | | | | |
|-----------|--|---------------------------|--|---|--|--|--|
| | | | COUNTY OF ORANGE
OC PUBLIC WORKS/ENGINEERING SERVICES
OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING | | | | |
| | | | FOUNTAIN VALLEY CHANNEL(D05)
BOUNDARY | | | | |
| | | | PROJECT LIMITS:UPSTREAM OF BUSHARD STREET TO APPROX 800 FT DOWNSTREAM | | | | |
| | | | OF GARFIELD AVENUE | | | | |
| | | DATE OF SURVEY:04/26/2024 | BY:K.MARTINEZ & CREW | SHEET NO.

2
of
5 | | | |
| | | MAPPING | BY:I. ISLAS | | | | |
| | | OFFICE CHECK | BY:J.MORENO, PLS | | | | |
| | | FIELD CHECK | BY:K.MARTINEZ & CREW | | | | |
| | | SCALE:1"=300' | W.O. #EF21460 | | | | |
| | | FILE: #2324PW-CM0011 | | | | | |
| REVISIONS | | | FILE:FVC_BOUNDARY_2024.DWG | | | | |





SYMBOL

△ Control Point

— Gate, Single

⊙ Manhole Storm Drain

⊙ Drop Inlet

⬢ Utility Pole, Underground

— Water Line

— Appurtenance-Pressure Release

AREA PATTERN KEY

Concrete

Dirt

Grass

Gravel

LINE PATTERN KEY

Block Wall

Centerline

Edge of Concrete

— PEX — Exposed Pipe

— x — x — Fence Chainlink

— o — o — Fence Pipe and Cable

— Flowline

— gl — Grade Line

— hp — Hinge Point

— R/W — Right of Way

— Striping

ABBREVIATION

BC Beginning of Curve

CL Centerline

CONC Concrete

CP Control Point

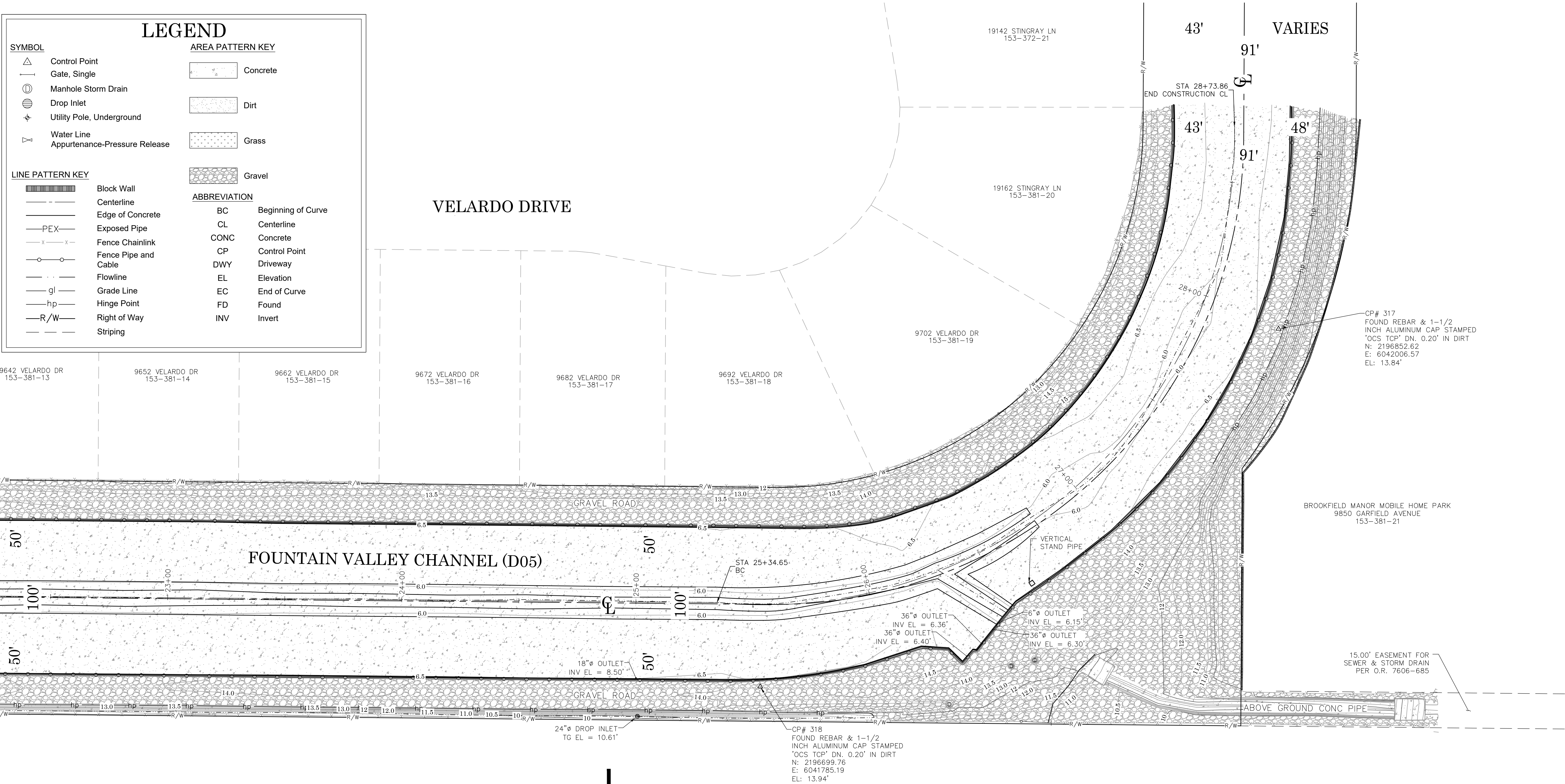
DWY Driveway

EL Elevation

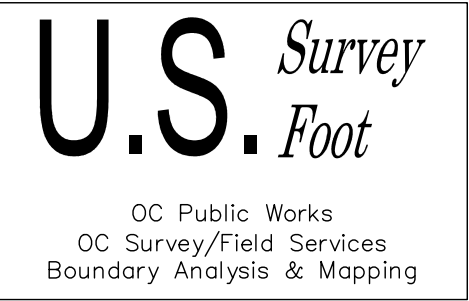
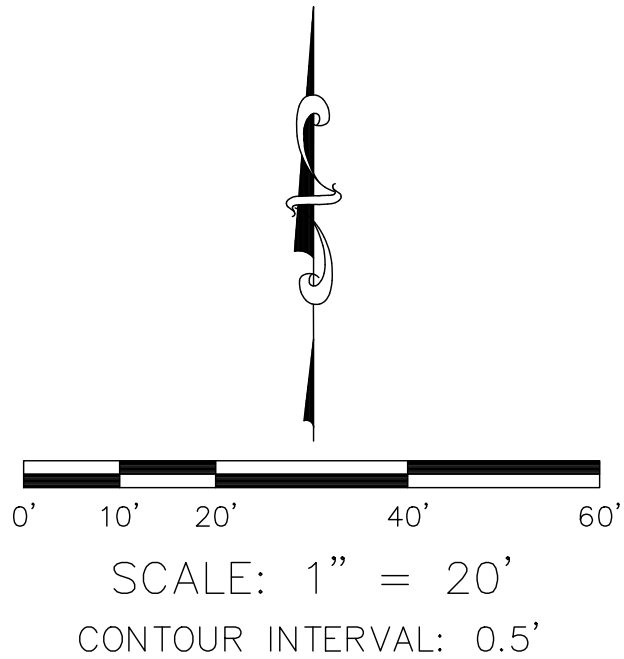
EC End of Curve

FD Found

INV Invert



SEE SHEET 4



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			FOUNTAIN VALLEY CHANNEL(D05) WALL REHABILITATION				
			TOPOGRAPHIC MAP				
			PROJECT LIMITS:UPSTREAM OF BUSHARD STREET TO APPROX 800 FT DOWNSTREAM OF GARFIELD AVENUE				
			DATE OF SURVEY:04/26/2024		BY:K.MARTINEZ & CREW		SHEET NO. 5 of 5
			MAPPING		BY:I.LISLAS		
			OFFICE CHECK		BY:J.MORENO, PLS		
			FIELD CHECK		BY:K.MARTINEZ & CREW		
			SCALE: N.T.S.		W.O. #EF21460	FILE #2324PW-CM0011	
			FILE:FVC_TOPO_2024.DWG				
REVISIONS							