



OC PUBLIC WORKS DEPARTMENT

JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS

KEVIN HILLS, COUNTY SURVEYOR

CARBON CREEK (B01)

LANDSIDE SLOPE DRAINAGE IMPROVEMENTS



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 (MJP) AND (OEOC) BEING NORTH 71°36'55" 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 1.00000725.

COMBINATION FACTOR WAS HELD AT POINT NUMBER #520 N: 2245069.59', E: 6014800.06', ELEVATION: 37.50'

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.

VERTICAL DATUM

O.C.S. BM. 1B-101-02 ELEV. = 28.42' YEAR LEVELED: 2005

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

DESCRIBED BY OCS 2004: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "1B-101-02". SET IN THE NORTHEASTLY CORNER OF A 4' BY 4.5' CONCRETE CATCH BASIN.

MONUMENT IS LOCATED ALONG THE NORTHERLY SIDE OF KATELLA AVENUE, 412' WESTERLY OF THE CENTERLINE OF LEXINGTON DRIVE AND 54' NORTHERLY OF THE CENTERLINE OF KATELLA AVE.

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.

PARCELS SHOWN WITHOUT BEARING AND DISTANCES ARE FOR GRAPHICAL PURPOSES ONLY.

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET	1	TITLE SHEET
SHEET	2-4	BOUNDARY MAP
SHEETS	5-13	TOPOGRAPHIC MAP
SHEETS	14-16	PROFILE

ALIGNMENT NOTE

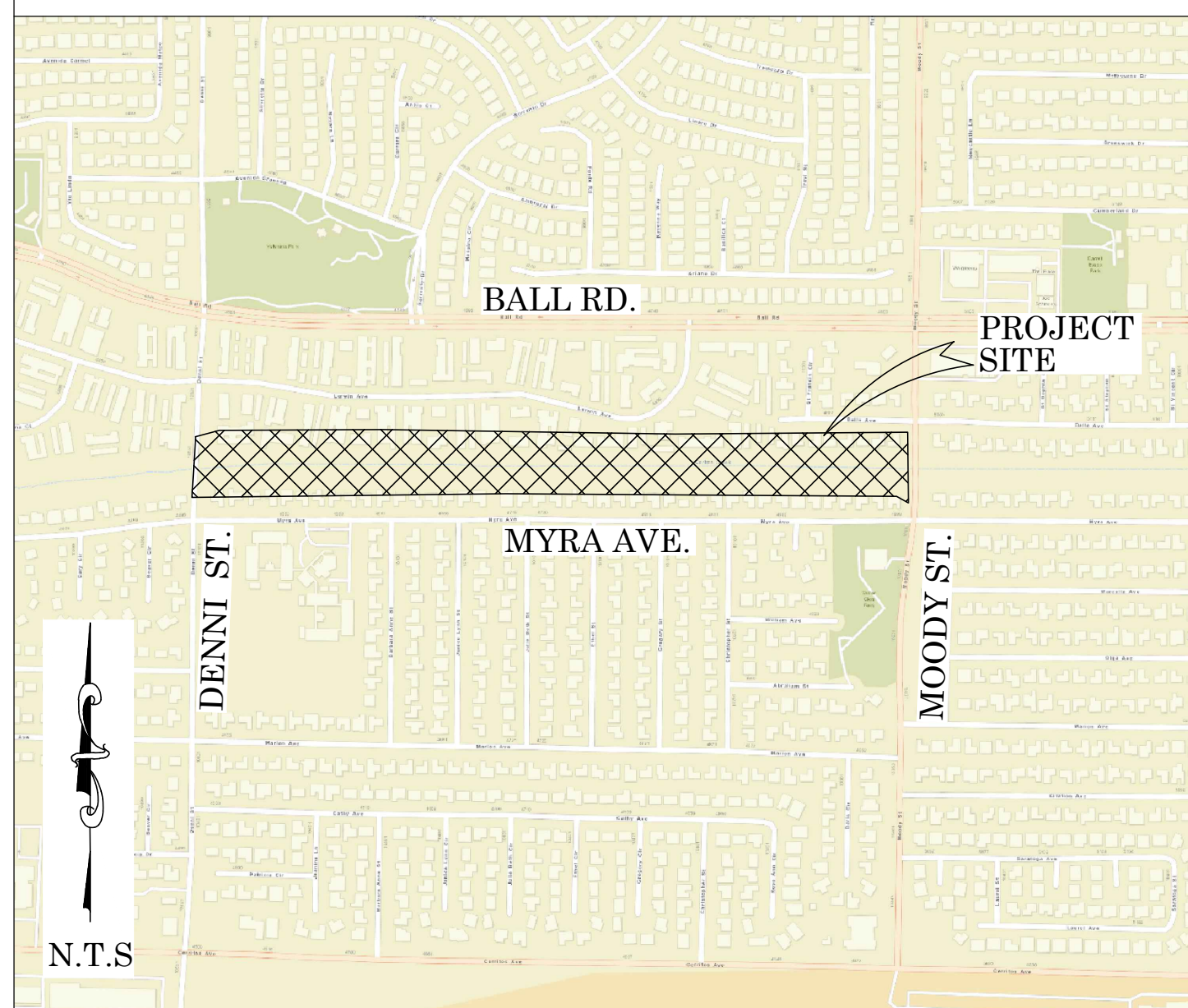
THE CENTERLINE CONSTRUCTION ALIGNMENT SHOWN HEREON WAS ESTABLISHED PER B01-101-5A DATED 6/26/86 AND DISTANT S00°17'45"W 550.00' FROM ESTABLISHMENT NOTE ⑥ SHOWN ON SHEET 4 AND DECREASING IN STATION SW'LY FROM STATION 79+97.60 TO STATION 53+07.95 DISTANT N01°14'24"E 636.29' FROM MONUMENT ⑥. THIS ALIGNMENT IS SHOWN AS CENTERLINE CONSTRUCTION ON SHEETS 5-14 HEREIN.

THE STATION LINE WAS ESTABLISHED BY HOLDING THE EXISTING FLOW LINE ALONG THE S'LY LIMITS OF SURVEY. THIS ALIGNMENT IS SHOWN AS STATION LINE ON SHEETS 5-14 HEREIN.

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP AND RIGHT OF WAY ESTABLISHMENT FOR THIS PORTION OF THE CARBON CREEK CHANNEL (B01).

LOCATION MAP



SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 17 DAY OF MARCH, 2021.

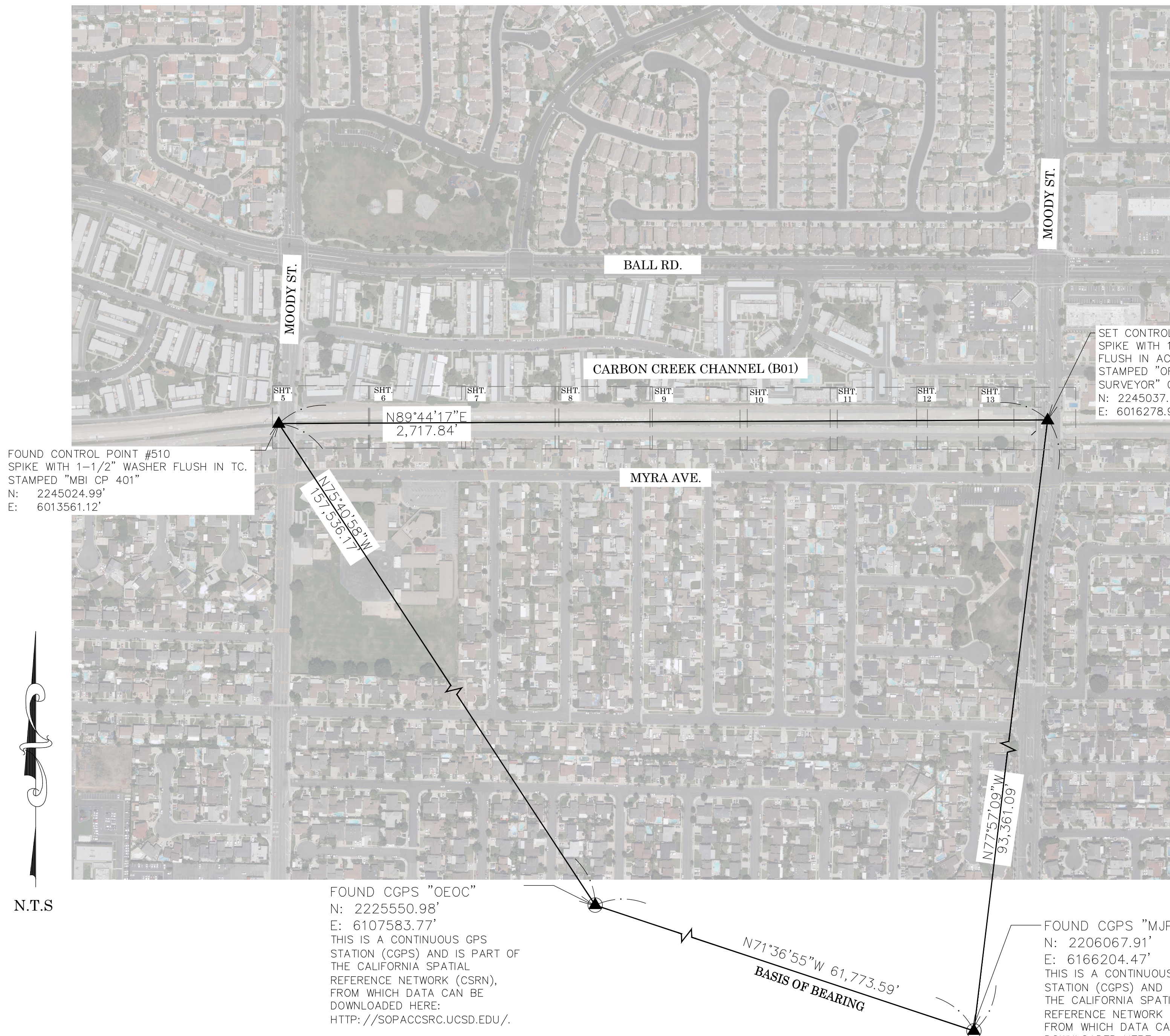
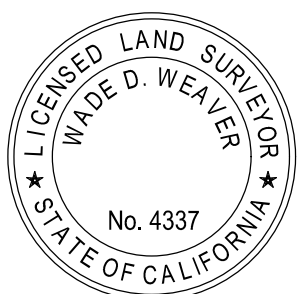
JESOM MORENO, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 17 DAY OF MARCH, 2021.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



TOPOGRAPHIC MAPPING PROJECT

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

CARBON CREEK (B01)
LANDSIDE SLOPE DRAINAGE IMPROVEMENTS

TITLE SHEET

PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST.

TO DOWNSTREAM OF MOODY ST.

DATE OF SURVEY: 05/26/2020

BY: J. JOHNS & PARTY

BY: H. AFTIM

OFFICE CHECK

BY: J. MORENO, PLS.

FIELD CHECK

BY: J. JOHNS & PARTY

SCALE: N.T.S.

W.O. #EF21210

FILE #1920PW-IN0028

FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS.TPO_2020.DWG

SHEET NO.

1

of

16

REVISIONS

ESTABLISHMENT NOTES

- A** ESTABLISHED THE CENTERLINE OF BLOOMFIELD STREET BY HOLDING A LINE BETWEEN MONUMENTS **1** AND **3** PER (R16).
- B** ESTABLISHED THE INTERSECTION OF CARBON CREEK CHANNEL CENTERLINE AND BLOOMFIELD STREET CENTERLINE BY HOLDING A RECORD DISTANCE PER (R19, R26 AND R27) FROM MONUMENT NOTE **3** ALONG ESTABLISHMENT NOTE **A**.
- C** ESTABLISHED THE CENTERLINE OF DENNI STREET BY HOLDING A LINE BETWEEN MONUMENTS **6** AND **4** PER (R9).
- D** S.F.N. ESTABLISHED POINT BY LEAST SQUARE ADJUSTMENT OF RECORD TIE DIMENSIONS FROM MONUMENTS **13**, **14**, **15** AND **16** PER (R18), ACCEPTED POINT AS NORTHEAST CORNER OF FRACTIONAL SEC 20, T4S, R11W PER (R14).
- E** ESTABLISHED CENTERLINE OF BALL ROAD BY HOLDING MONUMENT **17** AND ESTABLISHMENT NOTE **D**.
- F** ESTABLISHED CENTERLINE INTERSECTION OF BALL ROAD AND MOODY STREET BY HOLDING RECORD DISTANCE FROM ESTABLISHMENT NOTE **D** ALONG ESTABLISHMENT NOTE **E**.
- G** ESTABLISHED THE CENTERLINE OF MOODY STREET BY HOLDING A LINE BETWEEN MONUMENTS **7** AND **10** PER (R9).
- H** ESTABLISHED THE CENTERLINE OF MOODY STREET PER (R14) BY LEAST SQUARES ADJUSTMENT BETWEEN ESTABLISHMENT NOTE **F** AND MONUMENT **10**.
- I** ESTABLISHED PORTION OF THE WEST LINE OF NORTHWEST 1/4 FRACTIONAL SECTION 21, T4S, R11W PER (R14) PARALLEL WITH AND 3.50 FEET FROM MOODY STREET CENTERLINE BEGINNING AT ESTABLISHMENT NOTE **D** AND RECORD DISTANCE PER (R14).
- J** ESTABLISHED THE CENTERLINE INTERSECTION OF CARBON CREEK CHANNEL AND MOODY STREET BY HOLDING RECORD DISTANCE PER (R19, R26 AND R27) FROM ESTABLISHMENT NOTE **D** ALONG ESTABLISHMENT **I**.
- K** ESTABLISHED THE CENTERLINE OF CARBON CREEK CHANNEL BY HOLDING RECORD ANGLE, DISTANCE, AND CURVATURE INFORMATION PER (R19, R26 & R27) BETWEEN ESTABLISHMENTS **B** AND **J**.
- L** ESTABLISHED THE S'LY PARCELS 102, 201 AND 202 OF (R19, R26 & R27) BY HOLDING LINE PARALLEL WITH, AND 50.00' FROM ESTABLISHMENT **K**, PER (R19, R26 & R27).
- M** ESTABLISHED THE S'LY RIGHT OF WAY OF CARBON CREEK CHANNEL BY HOLDING LINE PARALLEL WITH, AND 12.00' OF ESTABLISHMENT **L**, PER (R25).
- N** ESTABLISHED THE W'LY RIGHT OF WAY OF MOODY STREET BY HOLDING LINE PARALLEL WITH, AND 30.00' FROM ESTABLISHMENT **I** PER (R28).
- O** ESTABLISHED THE W'LY RIGHT OF WAY OF MOODY STREET BY HOLDING LINE PARALLEL WITH, AND 50.00' FROM ESTABLISHMENT **H** PER (R14).
- P** ESTABLISHED THE CENTERLINE OF CERRITOS AVENUE BY HOLDING A LINE BETWEEN MONUMENTS **7** AND **1** PER (R5).
- Q** ESTABLISHED THE CENTERLINE INTERSECTION OF BALL RD AND DENNI STREET PER (R29) BY HOLDING RECORD DISTANCE FROM MONUMENT **6** PER (R7).

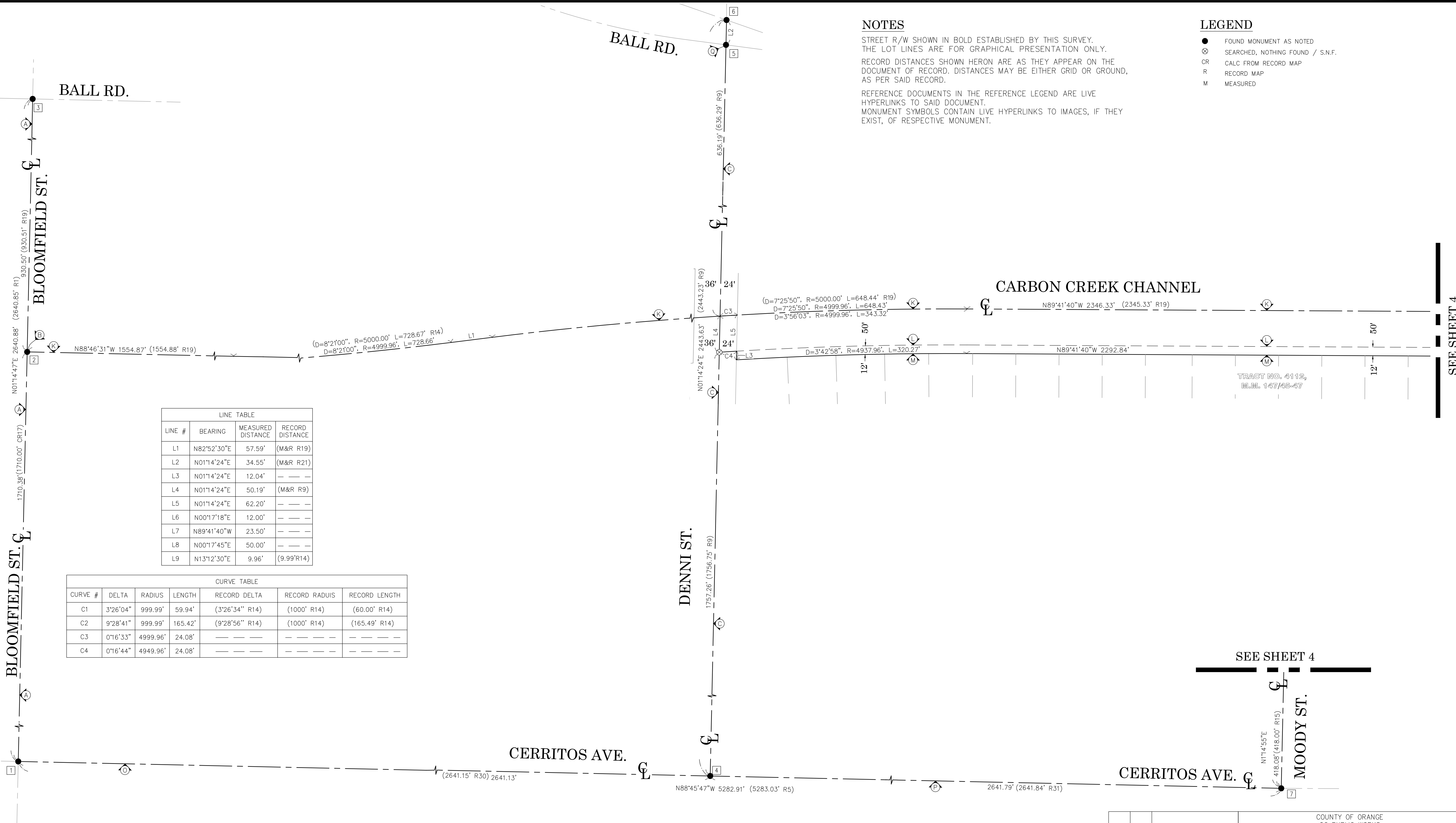
MONUMENT NOTES

- 1** FOUND SPIKE AND WASHER, ILLEGIBLE, DOWN. 0.5 IN ASPHALT, IN LIEU OF SPIKE & TAG "LS 2921" ON SURFACE PER (R3), ACCEPTED AS CENTERLINE INTERSECTION OF CERRITOS AVE AND BLOOMFIELD AVENUE PER (R16)
- 2** FOUND GEAR SPIKE AND WASHER STAMPED 'LS 5778, PER (R2)', DOWN 0.1' IN A/C, S17°45'26"W 0.04' FROM ESTABLISHMENT NOTE **B**.
- 3** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", FLUSH IN AC PER (R4), ACCEPTED AS CENTERLINE INTERSECTION OF BALL RD AND BLOOMFIELD AVENUE, PER (R16).
- 4** FOUND PUNCHED HEX BAR, DOWN 1.6' IN OCS WELL MONUMENT PER (31), ACCEPTED AS CENTERLINE INTERSECTION OF DENNI ST AND CERRITOS AVE, PER (R31).
- 5** FOUND GEAR SPIKE WITH TAG STAMPED 'LS 5411', PER (R7), FLUSH IN A/C, S84°53'20"E 0.05' FROM ESTABLISHMENT NOTE **D**.
- 6** FOUND GEAR SPIKE WITH TAG STAMPED 'LS 5411', FLUSH PER (R7) IN A/C, ACCEPTED AS INTERSECTION OF DENNI STREET AND NW'LY CORNER OF TRACT NO. 5372, PER (R22).
- 7** FOUND PUNCHED HEX BAR IN OCS WELL MONUMENT, CHIPPED AND DOWN 1.6' ACCEPTED AS CENTERLINE INTERSECTION OF CERRITOS AVE AND MOODY ST, PER (R31).
- 8** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", DOWN 0.1' PER (R10) IN AC, ACCEPTED AS CENTERLINE INTERSECTION MOODY STREET AND SARATOGA AVENUE PER (R15).
- 9** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", FLUSH PER (R11) IN AC, ACCEPTED AS CENTERLINE INTERSECTION OF MOODY STREET AND CITATION AVENUE, PER (R14).
- 10** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", FLUSH PER (R12) IN AC, ACCEPTED AS CENTERLINE INTERSECTION MOODY ST AND MARION AVE PER (R14).
- 11** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", FLUSH IN AC, IN LIEU OF SPIKE AND TAG PER (R14), S88D45°05"E 0.06' FROM THE CENTERLINE OF INTERSECTION OF MOODY STA AND MARION AVE PER (R14).
- 12** FOUND GEAR SPIKE WITH TAG STAMPED 'LS 5411', PER (R24), DOWN 0.1 IN A/C, S24°07'39"E 0.19' FROM INTERSECTION OF MOODY STREET AND MYRA AVENUE.
- 13** FOUND LEAD, BRASS NAIL, FLUSH IN CONCRETE CURB, ACCEPTED AS TIE PER (R18).
- 14** FOUND LEAD, BRASS NAIL, FLUSH IN CONCRETE CURB, ACCEPTED AS TIE PER (R18).
- 15** FOUND LEAD, BRASS NAIL, FLUSH IN CONCRETE CURB, ACCEPTED AS TIE PER (R18).
- 16** FOUND LEAD, BRASS NAIL, FLUSH IN CONCRETE CURB, ACCEPTED AS TIE PER (R18).
- 17** FOUND GEAR SPIKE AND WASHER STAMPED "LS 5411", FLUSH IN AC PER (32), ACCEPTED AS CENTERLINE INTERSECTION OF BALL ROAD AND SORRENTO DRIVE, PER (R29).

REFERENCES

- (R1) = COUNTY SURVEYOR TIE BOOK, CSTB 107/50-52
- (R2) = CORNER RECORD, C.R. 2008-0446
- (R3) = ALIGNMENT NOTES, A/4-11/841-843
- (R4) = CORNER RECORD, C.R. 2009-1393
- (R5) = COUNTY SURVEYOR TIE BOOK, CSTB 114/34-39
- (R6) = COUNTY SURVEYOR TIE BOOK, CSTB 107/22-27
- (R7) = CORNER RECORD, C.R. 2012-3535
- (R8) = TRACT NO.6050, MM 222/9-12
- (R9) = TRACT NO.4112, MM 147/45-47
- (R10) = CORNER RECORD, C.R. 2012-0536
- (R11) = CORNER RECORD, C.R. 2012-0537
- (R12) = CORNER RECORD, C.R. 2012-0538
- (R13) = CORNER RECORD, C.R. 2012-0539
- (R14) = TRACT NO. 4113, MM 148/1-4
- (R15) = TRACT NO. 6318, MM 231/20-22
- (R16) = TRACT NO. 4004, MM 140/20-22
- (R17) = TRACT NO. 3502, MM 165/21-22
- (R18) = CORNER RECORD, C.R. 2012-1367
- (R19) = EXISTING EASEMENT TO ORANGE COUNTY FLOOD CONTROL DISTRICT, RECORDED 12/03/1958, IN BOOK 4545 PAGE 84.
- (R20) = TRACT NO. 3742, MM 147/48-50
- (R21) = CORNER RECORD, C.R. 2012-2593
- (R22) = TRACT NO.5372, MM 218/25-29
- (R23) = CORNER RECORD, C.R. 2011-3591
- (R24) = CORNER RECORD, C.R. 2012-0535
- (R25) = EXISTING EASEMENT TO ORANGE COUNTY FLOOD CONTROL DISTRICT, RECORDED 04/15/1966, IN BOOK 7903 PAGE 270.
- (R26) = EXISTING EASEMENT TO ORANGE COUNTY FLOOD CONTROL DISTRICT, RECORDED 07/02/1959, IN BOOK 4784 PAGE 279.
- (R27) = EXISTING EASEMENT TO ORANGE COUNTY FLOOD CONTROL DISTRICT, RECORDED 02/10/1960, IN BOOK 5137 PAGE 152.
- (R28) = RIGHT OF WAY MAP B01-002
- (R29) = TRACT NO. 14150, MM 661/24-35
- (R30) = PARCEL MAP 84-1161 PMB 194/37-40
- (R31) = TRACT NO. 16555, MM 860/33-34
- (R32) = CORNER RECORD, C.R. 2012-3534
- (R33) = OCS STREET R/W MAP Z35

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			BOUNDARY MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWSTREAM OF MOODY ST.			
			DATE OF SURVEY: 05/26/2020		BY: J. JOHNS & PARTY	
			MAPPING		BY: H. AFTIM	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 60'		W.O. #EF21210	
			FILE: CARBON CREEK (B01) DRAINAGE IMPROVEMENTS_BOUNDARY_2020.DWG			
REVISIONS				SHEET NO. 2 of 16		



NOTES

STREET R/W SHOWN IN BOLD ESTABLISHED BY THIS SURVEY.
THE LOT LINES ARE FOR GRAPHICAL PRESENTATION ONLY.

RECORD DISTANCES SHOWN HERON 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, NOTHING FOUND / S.N.F.
- CR CALC FROM RECORD MAP
- R RECORD MAP
- M MEASURED

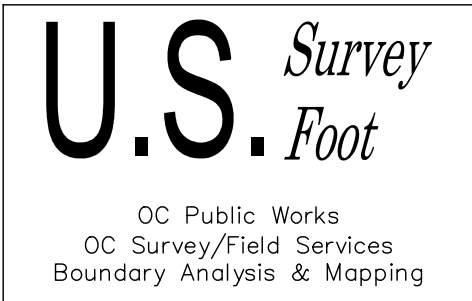
SEE SHEET 4

SEE SHEET 4



0' 30' 60' 120' 180'

SCALE: 1" = 60'



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
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			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 60'		W.O. #EF21210	
			FILE: CARBON CREEK (B01) DRAINAGE IMPROVEMENTS_BOUNDARY_2020.DWG		FILE #1920PW-IN0028	
REVISIONS				SHEET NO. 3 of 16		

LEGEND

- FOUND MONUMENT AS NOTED
- ⊗ SEARCHED, NOTHING FOUND / S.N.F.
- CR CALC FROM RECORD MAP
- R RECORD MAP
- M MEASURED

NOTES

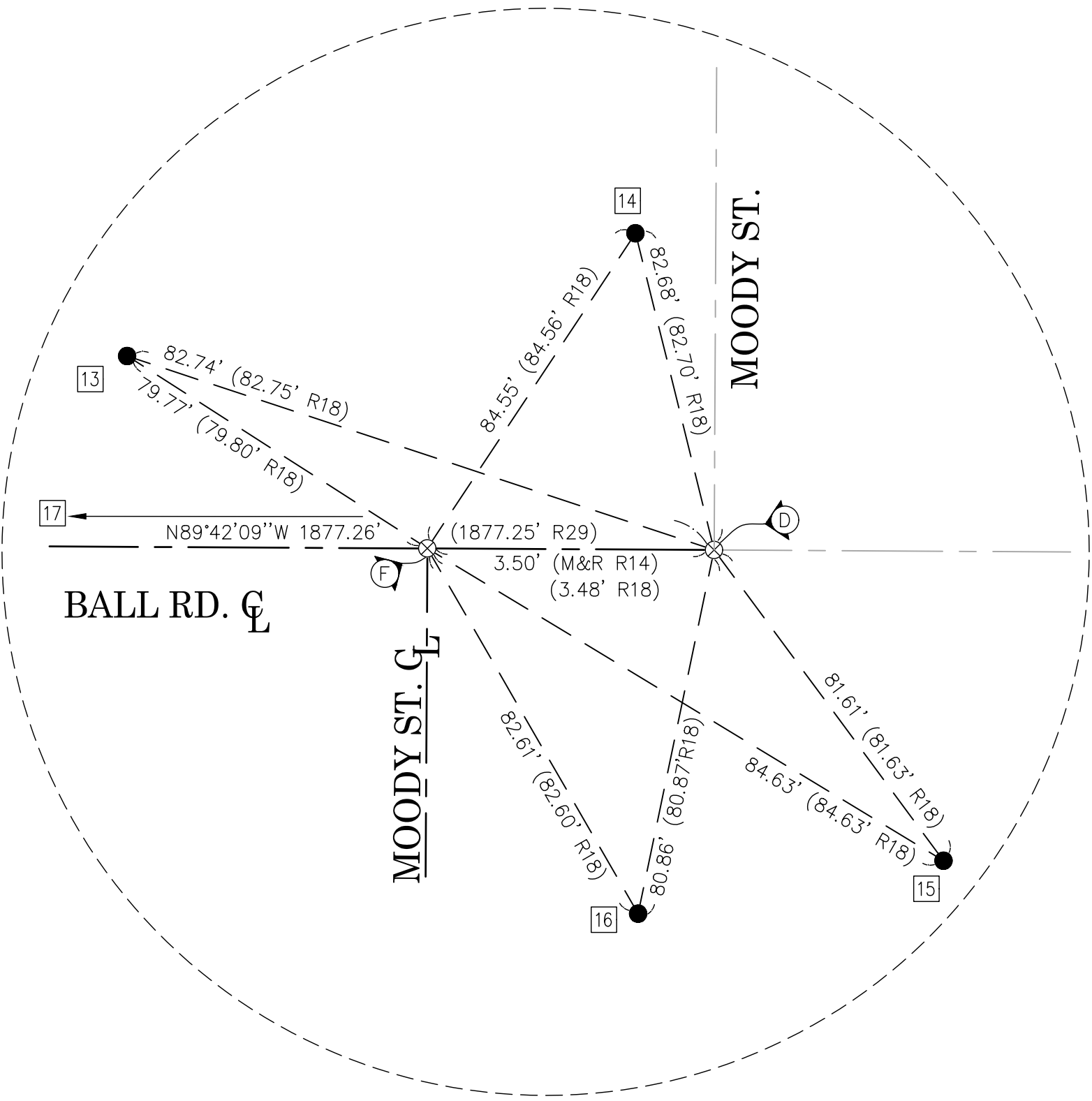
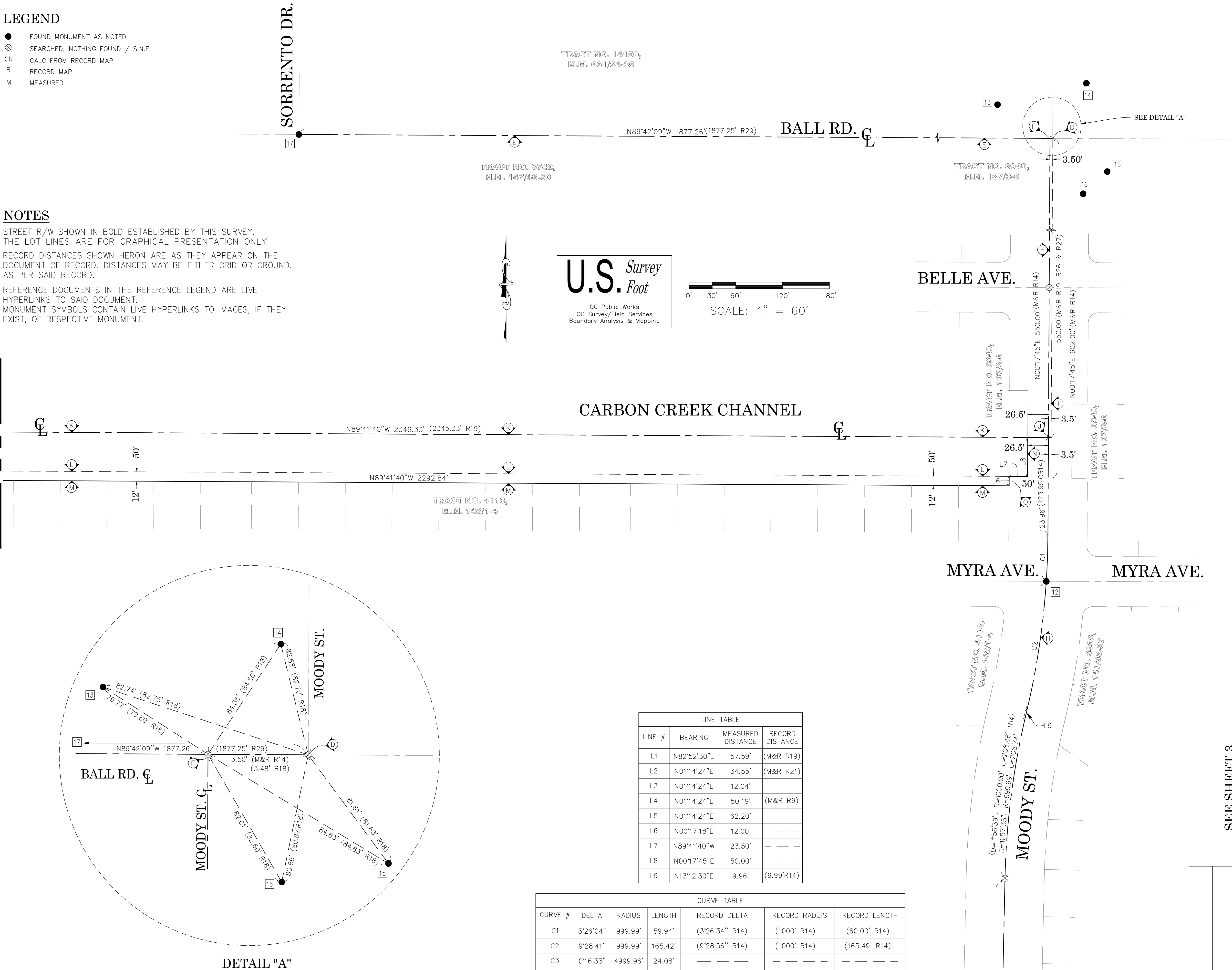
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MATCHLINE SEE BELOW

SEE SHEET 3

SEE SHEET 3

MATCHLINE SEE ABOVE



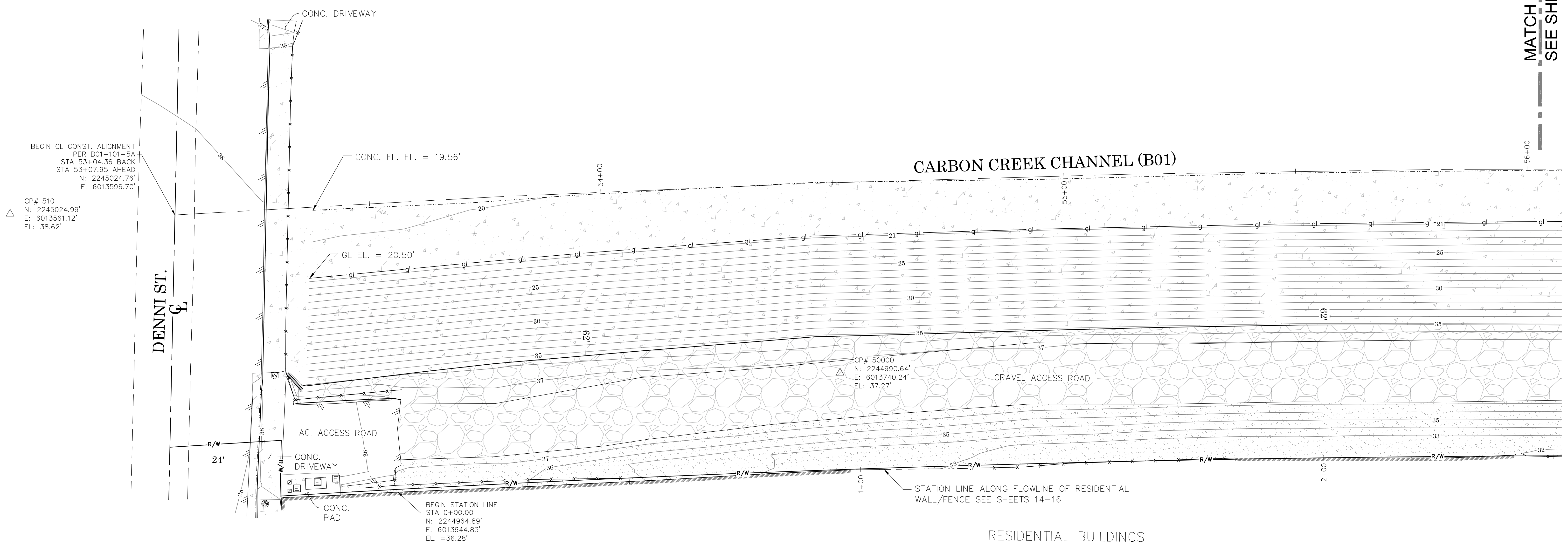
DETAIL "A"
N.T.S.

LINE TABLE				
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE	
L1	N82°52'30"E	57.59'	(M&R R19)	
L2	N01°14'24"E	34.55'	(M&R R21)	
L3	N01°14'24"E	12.04'	— — — —	
L4	N01°14'24"E	50.19'	(M&R R9)	
L5	N01°14'24"E	62.20'	— — — —	
L6	N00°17'18"E	12.00'	— — — —	
L7	N89°41'40"W	23.50'	— — — —	
L8	N00°17'45"E	50.00'	— — — —	
L9	N13°12'30"E	9.96'	(9.99'R14)	

CURVE TABLE					
CURVE #	DELTA	RADIUS	LENGTH	RECORD DELTA	RECORD RADUIS
C1	3°26'04"	999.99'	59.94'	(3°26'34" R14)	(1000' R14)
C2	9°28'41"	999.99'	165.42'	(9°28'56" R14)	(1000' R14)
C3	0°16'33"	4999.96'	24.08'	— — — —	— — — —
C4	0°16'44"	4949.96'	24.08'	— — — —	— — — —

			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
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			BOUNDARY MAP				
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			MAPPING		BY: H. AFTIM		
			OFFICE CHECK		BY: J. MORENO, PLS		
			FIELD CHECK		BY: J. JOHNS & PARTY		
			SCALE: 1" = 60'		W.O. #EF21210		
			MARK	DATE	ITEM	FILE #1920PW-IN0028	
REVISIONS			FILE: CARBON CREEK (B01) DRAINAGE IMPROVEMENTS_BOUNDARY_2020.DWG				

MATCH LINE
SEE SHEET 6



SYMBOL

Control Box Electrical

Control Box Undefined

Gate, Double

Manhole Water

Meter Water

Pipe Inlet/Outlet

Post

Pull Box Electrical

Pull Box Traffic

Tree

Utility Pole, Underground

Vent Pipe

LEGEND
LINE PATTERN KEY

Block Wall

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Plastic

Flowline

Guard Rail

Top Channel Lining Wall

Right of Way

Grade Line

Striping

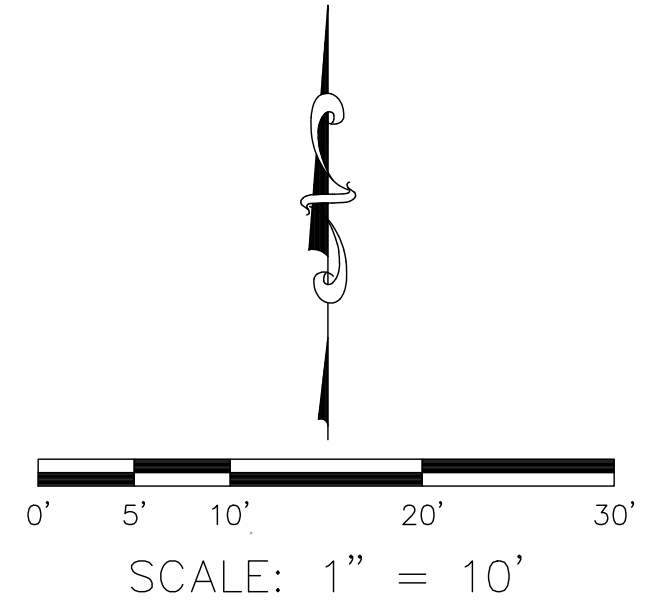
AREA PATTERN KEY

Concrete

Dirt

Gravel / Rip Rap
ABBREVIATION
AC Asphalt Concrete
CL Centerline
CONC Concrete
CP Control Point
EL Elevation
FL Flowline
INV Invert

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



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MARK	DATE	ITEM	REVISIONS			

SEE SHEET 5
MATCH LINE

MATCH LINE
SEE SHEET 7

SYMBOL

Control Box Electrical

Control Box Undefined

Gate, Double

Manhole Water

Meter Water

Pipe Inlet/Outlet

Post

Pull Box Electrical

Pull Box Traffic

Tree

Utility Pole, Underground

Vent Pipe

LINE PATTERN KEY

Block Wall

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Plastic

Flowline

Guard Rail

Top Channel Lining Wall

Right of Way

Grade Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel / Rip Rap

ABBREVIATION

AC

Asphalt Concrete

CL

Centerline

CONC

Concrete

CP

Control Point

EL

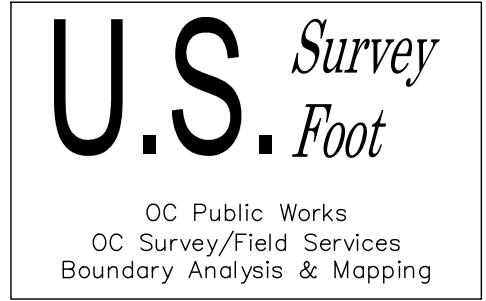
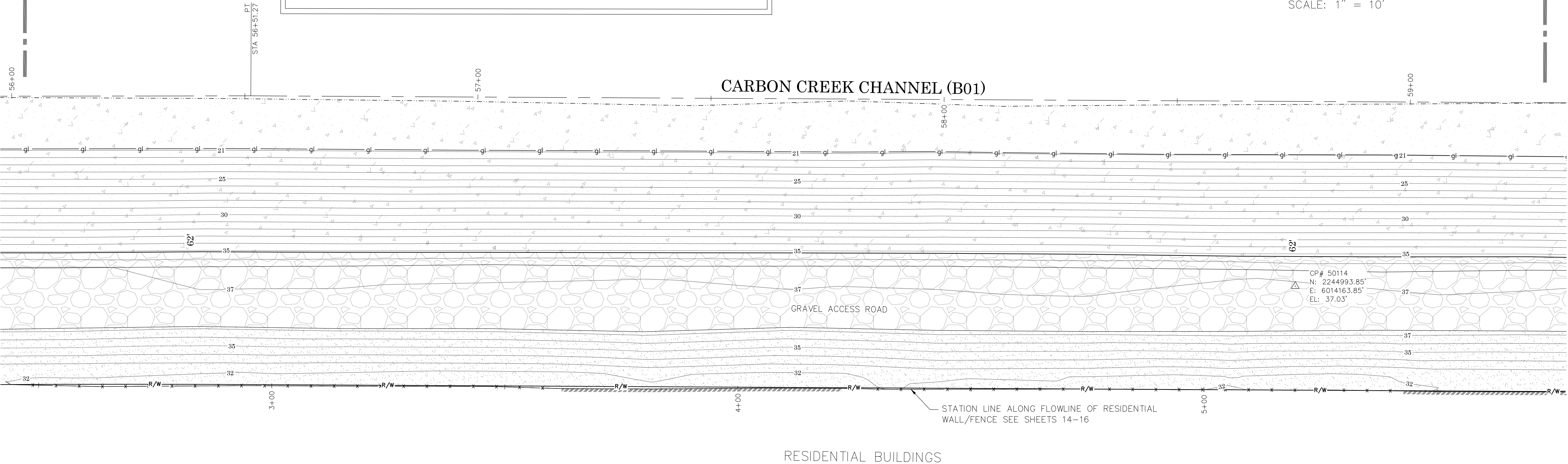
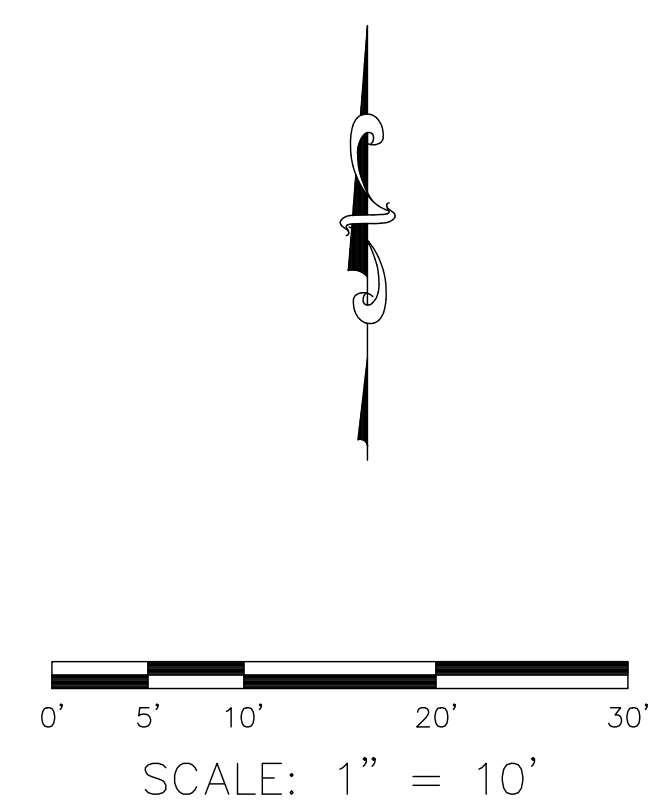
Elevation

FL

Flowline

INV

Invert



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MARK	DATE	ITEM	REVISIONS			

SEE SHEET 6
MATCH LINE

SYMBOL

- Control Box Electrical
- Control Box Undefined
- Gate, Double
- Manhole Water
- Meter Water
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Traffic
- Tree
- Utility Pole, Underground
- Vent Pipe

LEGEND

LINE PATTERN KEY

- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Plastic
- Flowline
- Guard Rail
- Top Channel Lining Wall
- Right of Way
- Grade Line
- Striping

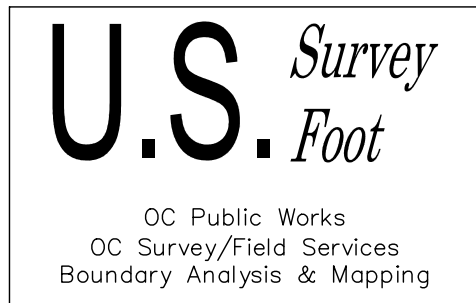
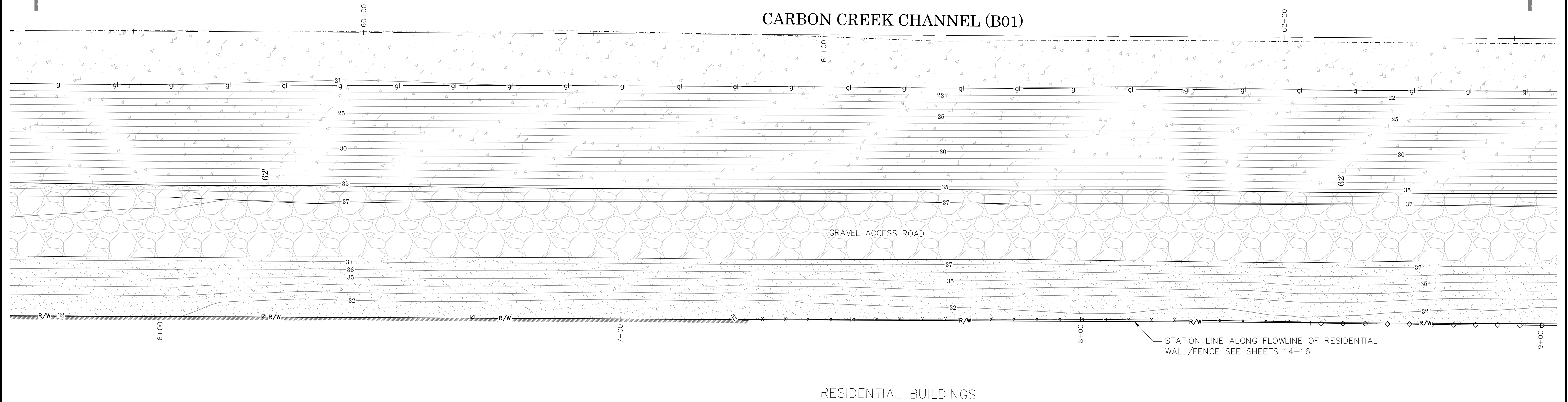
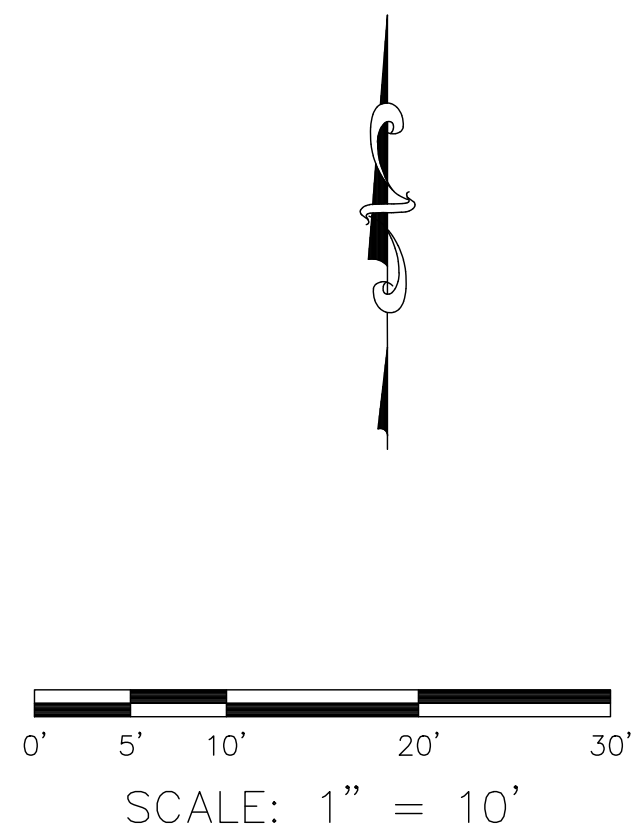
AREA PATTERN KEY

- Concrete
- Dirt
- Gravel / Rip Rap

ABBREVIATION

- AC Asphalt Concrete
- CL Centerline
- CONC Concrete
- CP Control Point
- EL Elevation
- FL Flowline
- INV Invert

MATCH LINE
SEE SHEET 8



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF WOODY ST.		
			DATE OF SURVEY: 05/26/2020	BY: J. JOHNS & PARTY	SHEET NO. 7 of 16
			MAPPING	BY: H. AFTIM	
			OFFICE CHECK	BY: J. MORENO, PLS	
			FIELD CHECK	BY: J. JOHNS & PARTY	
MARK	DATE	ITEM	REVISIONS		
			SCALE: 1" = 10'	W.O. #EF21210	FILE # 1920PW-IN0028
			FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG		

SEE SHEET 7
MATCH LINE

MATCH LINE
SEE SHEET 9

SYMBOL

- Control Box Electrical
- Control Box Undefined
- Gate, Double
- Manhole Water
- Meter Water
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Traffic
- Tree
- Utility Pole, Underground
- Vent Pipe

LEGEND

LINE PATTERN KEY

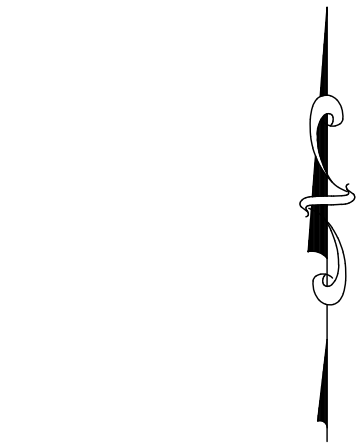
- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Plastic
- Flowline
- Guard Rail
- Top Channel Lining Wall
- Right of Way
- Grade Line
- Striping

AREA PATTERN KEY

- Concrete
- Dirt
- Gravel / Rip Rap

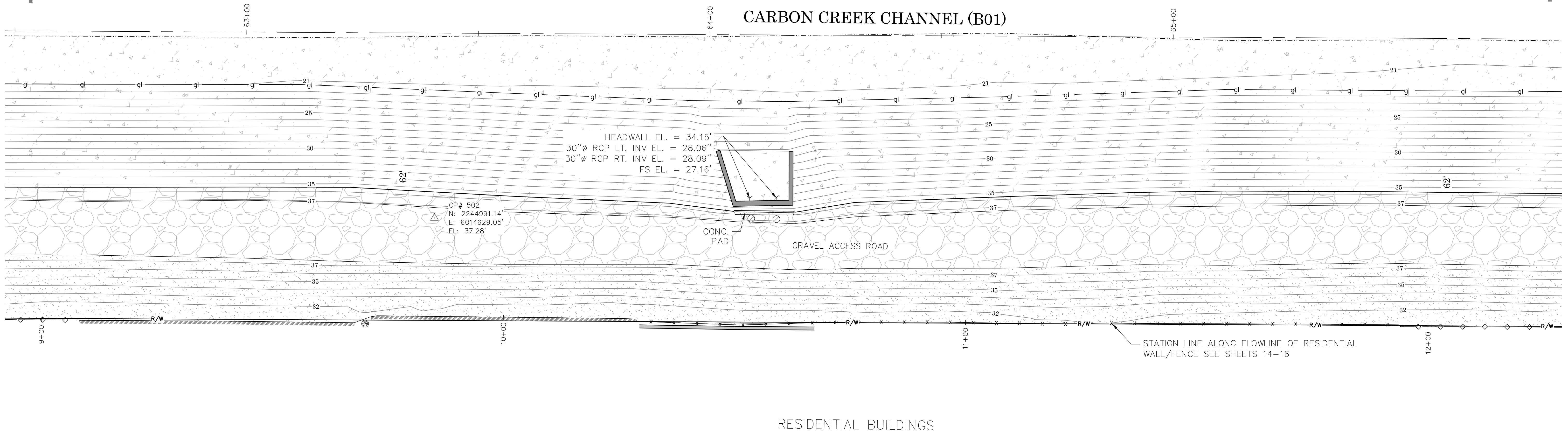
ABBREVIATION

- AC Asphalt Concrete
- CL Centerline
- CONC Concrete
- CP Control Point
- EL Elevation
- FL Flowline
- INV Invert



SCALE: 1" = 10'

△ CP# 520
N: 2245069.59'
E: 6014800.06'
EL: 37.50'



		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS					
TOPOGRAPHIC MAP					
PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF WOODY ST.					
DATE OF SURVEY: 05/26/2020		BY: J. JOHNS & PARTY		SHEET NO. 8 of 16	
MAPPING		BY: H. AFTIM			
OFFICE CHECK		BY: J. MORENO, PLS			
FIELD CHECK		BY: J. JOHNS & PARTY			
MARK	DATE	ITEM	REVISIONS		
			SCALE: 1" = 10'	W.O. #EF21210	FILE #1920PW-IN0028
FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG					

SEE SHEET 8
MATCH LINE

MATCH LINE
SEE SHEET 10

SYMBOL

Control Box Electrical

Control Box Undefined

Gate, Double

Manhole Water

Meter Water

Pipe Inlet/Outlet

Post

Pull Box Electrical

Pull Box Traffic

Tree

Utility Pole, Underground

Vent Pipe

LEGEND

LINE PATTERN KEY

Block Wall

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Plastic

Flowline

Guard Rail

Top Channel Lining Wall

Right of Way

Grade Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel / Rip Rap

ABBREVIATION

AC

Asphalt Concrete

CL

Centerline

CONC

Concrete

CP

Control Point

EL

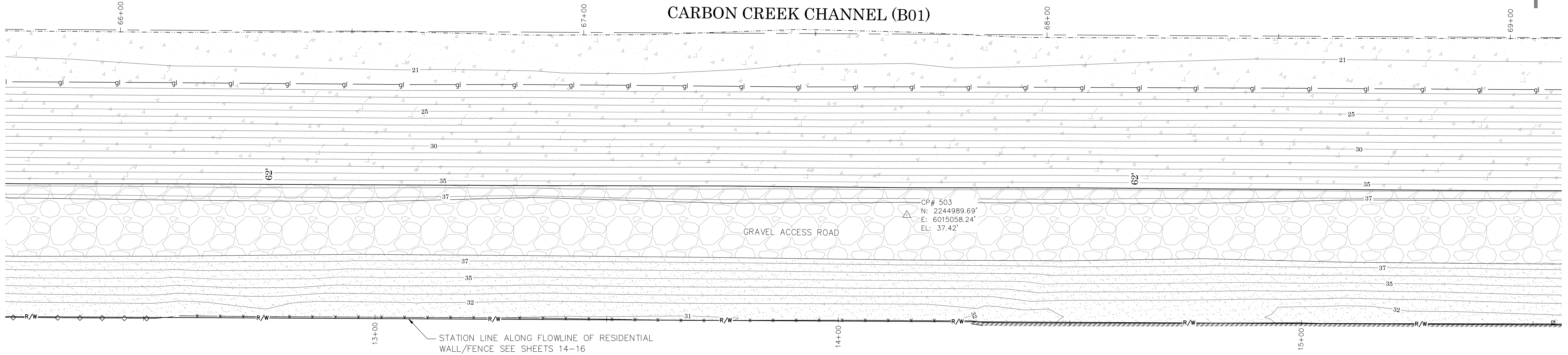
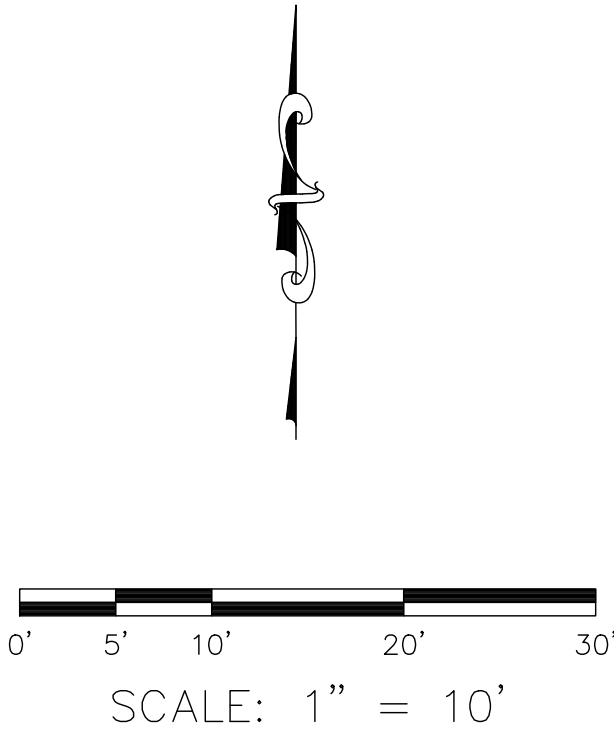
Elevation

FL

Flowline

INV

Invert



RESIDENTIAL BUILDINGS

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			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF MOODY ST.			
			DATE OF SURVEY:05/26/2020		BY:J. JOHNS & PARTY	
			MAPPING		BY:H. AFTM	
			OFFICE CHECK		BY:J. MORENO, PLS	
			FIELD CHECK		BY:J. JOHNS & PARTY	
			SCALE:1" = 10'		W.O. #EF21210	
					FILE #1920PW-IN0028	
			FILE:CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG			
MARK	DATE	ITEM	REVISIONS			

SEE SHEET 9
MATCH LINE

MATCH LINE
SEE SHEET 11

SYMBOL

Control Box Electrical

Control Box Undefined

Gate, Double

Manhole Water

Meter Water

Pipe Inlet/Outlet

Post

Pull Box Electrical

Pull Box Traffic

Tree

Utility Pole, Underground

Vent Pipe

LINE PATTERN KEY

Block Wall

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Plastic

Flowline

Guard Rail

Top Channel Lining Wall

Right of Way

Grade Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel / Rip Rap

ABBREVIATION

AC

Asphalt Concrete

CL

Centerline

CONC

Concrete

CP

Control Point

EL

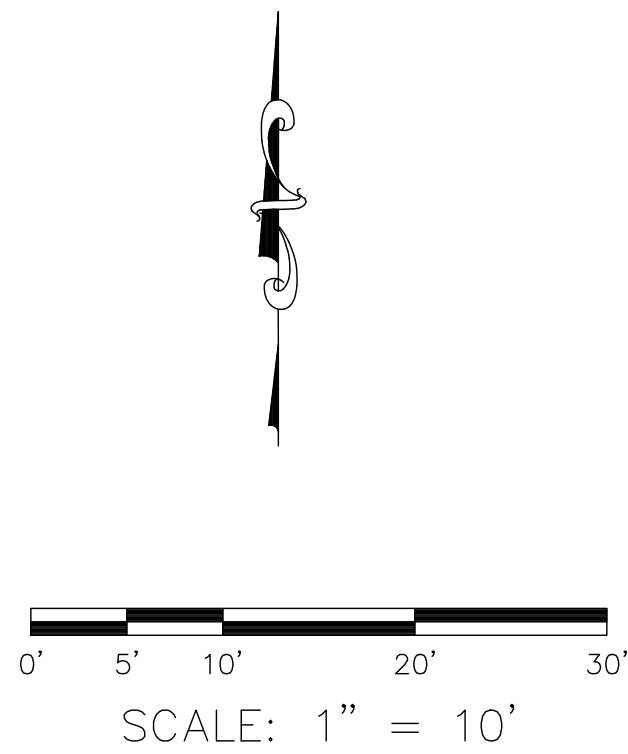
Elevation

FL

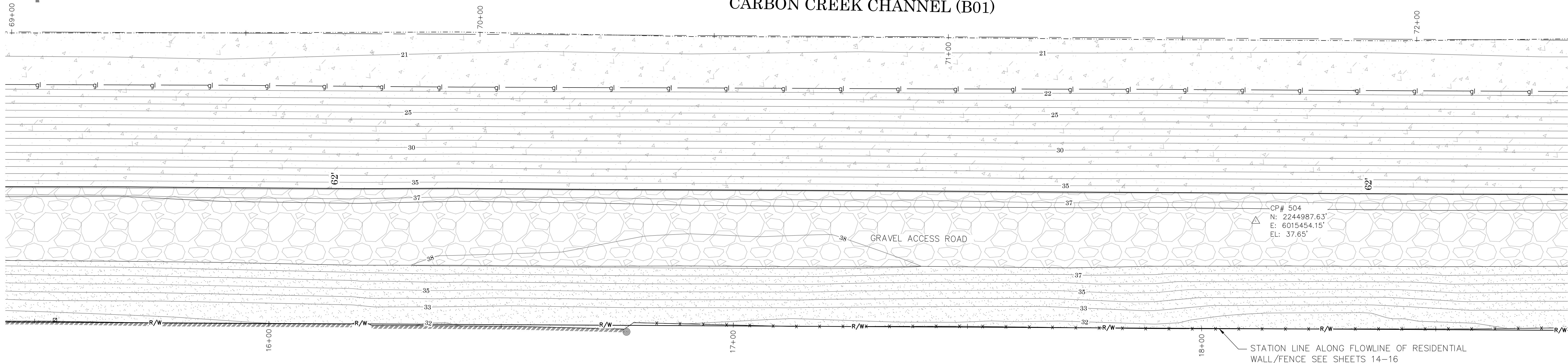
Flowline

INV

Invert



CARBON CREEK CHANNEL (B01)



RESIDENTIAL BUILDINGS

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			
CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS						
TOPOGRAPHIC MAP						
PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF MOODY ST.						
			DATE OF SURVEY:05/26/2020		BY:J. JOHNS & PARTY	
			MAPPING		BY:H. AFTM	
			OFFICE CHECK		BY:J. MORENO, PLS	
			FIELD CHECK		BY:J. JOHNS & PARTY	
			SCALE:1" = 10'		W.O. #EF21210	
					FILE #1920PW-IN0028	
FILE:CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG						
MARK	DATE	ITEM	REVISIONS			

SEE SHEET 10
MATCH LINE

MATCH LINE
SEE SHEET 12

SYMBOL

Control Box Electrical

Control Box Undefined

Gate, Double

Manhole Water

Meter Water

Pipe Inlet/Outlet

Post

Pull Box Electrical

Pull Box Traffic

Tree

Utility Pole, Underground

Vent Pipe

LINE PATTERN KEY

Block Wall

Centerline

Concrete Wall

Edge of Concrete

Edge of Asphalt Pavement

Fence Chainlink

Fence Plastic

Flowline

Guard Rail

Top Channel Lining Wall

Right of Way

Grade Line

Striping

AREA PATTERN KEY

Concrete

Dirt

Gravel / Rip Rap

ABBREVIATION

AC

Asphalt Concrete

CL

Centerline

CONC

Concrete

CP

Control Point

EL

Elevation

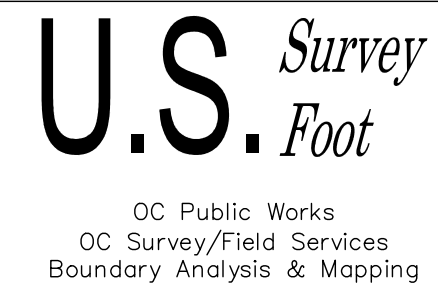
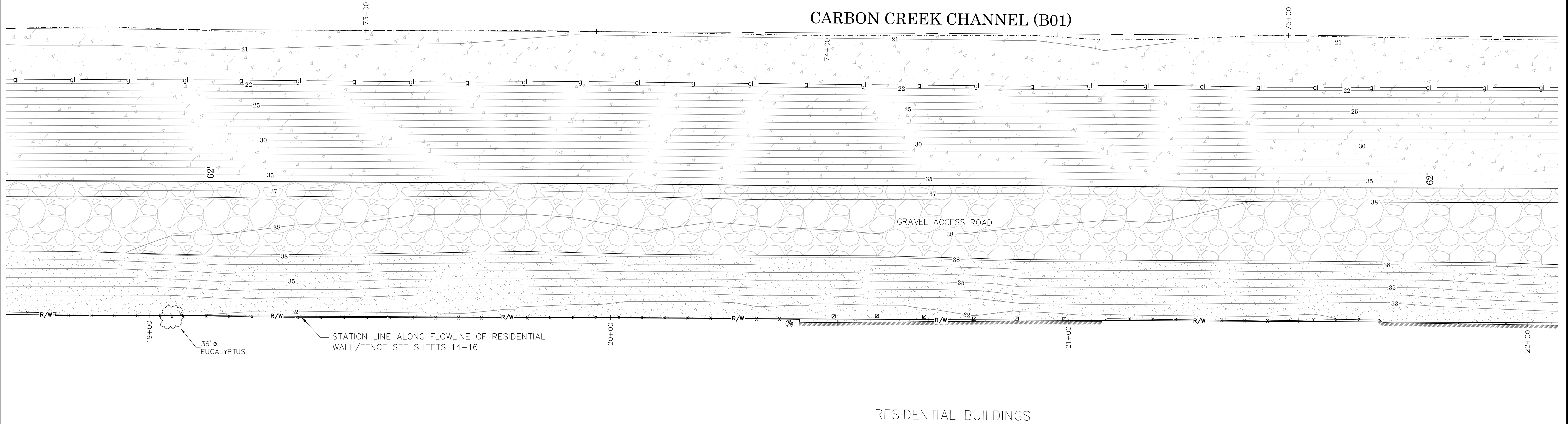
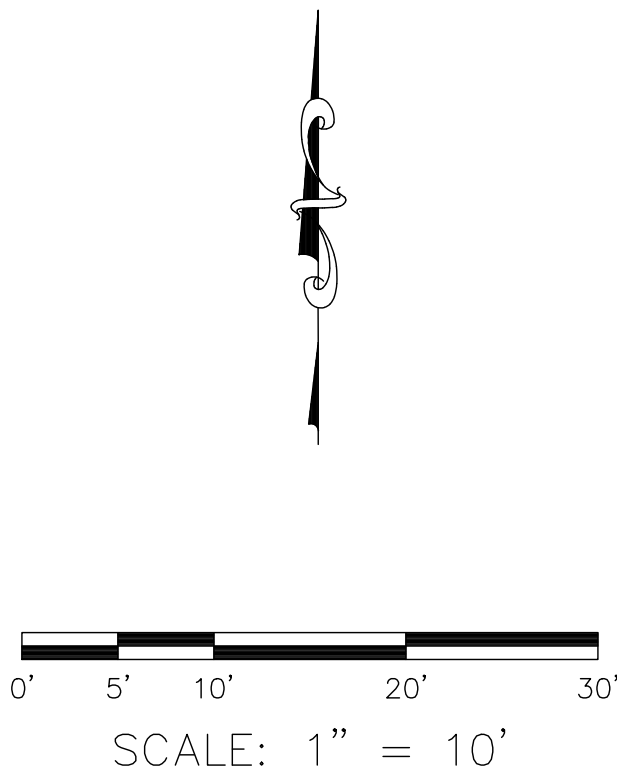
FL

Flowline

INV

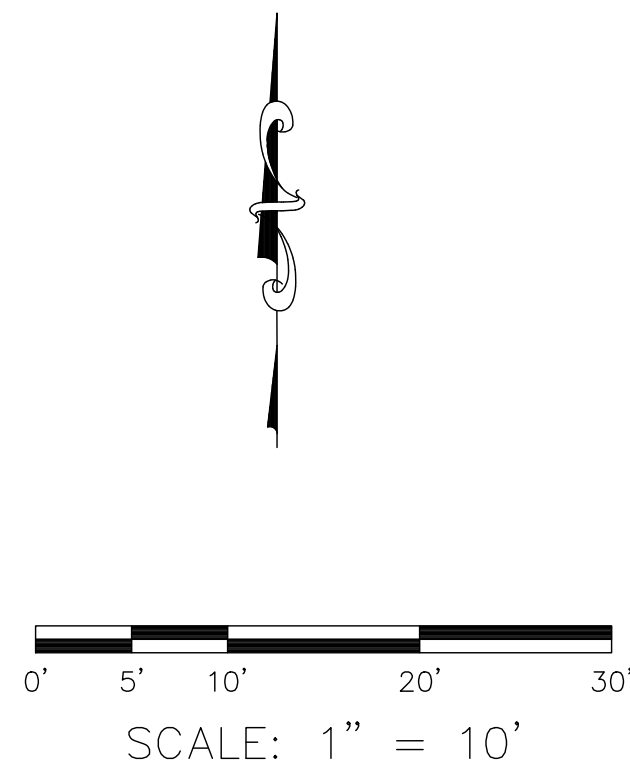
Invert

△ CP# 519
N: 2245066.18'
E: 6015640.95'
EL: 37.90'



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF WOODY ST.			
			DATE OF SURVEY: 05/26/2020		BY: J. JOHNS & PARTY	
			MAPPING		BY: H. AFIM	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 10'		W.O. #EF21210	
					FILE #1920PW-IN0028	
			FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG			
MARK	DATE	ITEM	REVISIONS			

SEE SHEET 11
MATCH LINE



SYMBOL

- Control Box Electrical
- Control Box Undefined
- Gate, Double
- Manhole Water
- Meter Water
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Pull Box Traffic
- Tree
- Utility Pole, Underground
- Vent Pipe

LINE PATTERN KEY

- Block Wall
- Centerline
- Concrete Wall
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Chainlink
- Fence Plastic
- Flowline
- Guard Rail
- Top Channel Lining Wall
- Right of Way
- Grade Line
- Striping

AREA PATTERN KEY

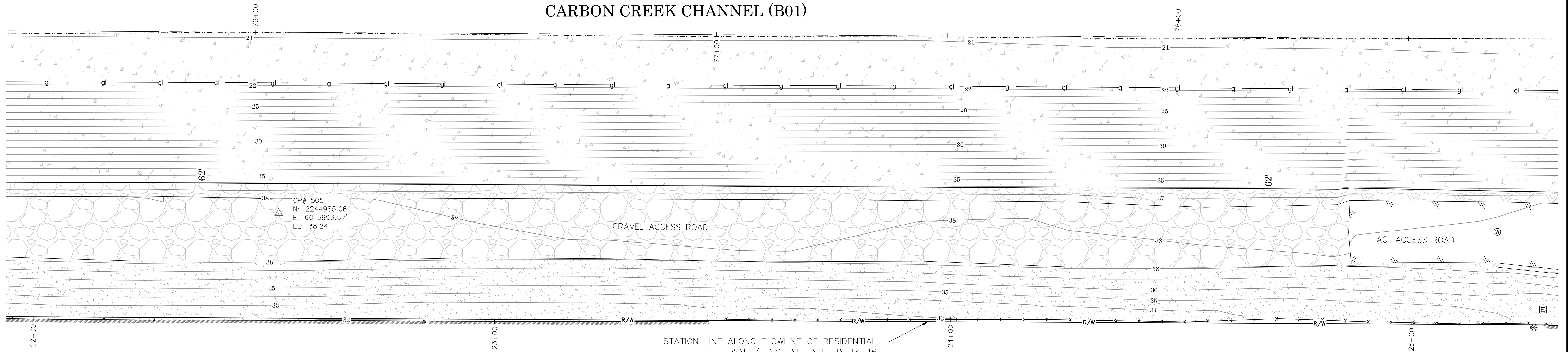
- Concrete
- Dirt
- Gravel / Rip Rap

ABBREVIATION

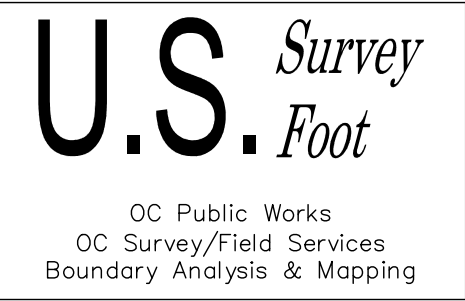
- AC Asphalt Concrete
- CL Centerline
- CONC Concrete
- CP Control Point
- EL Elevation
- FL Flowline
- INV Invert

MATCH LINE
SEE SHEET 13

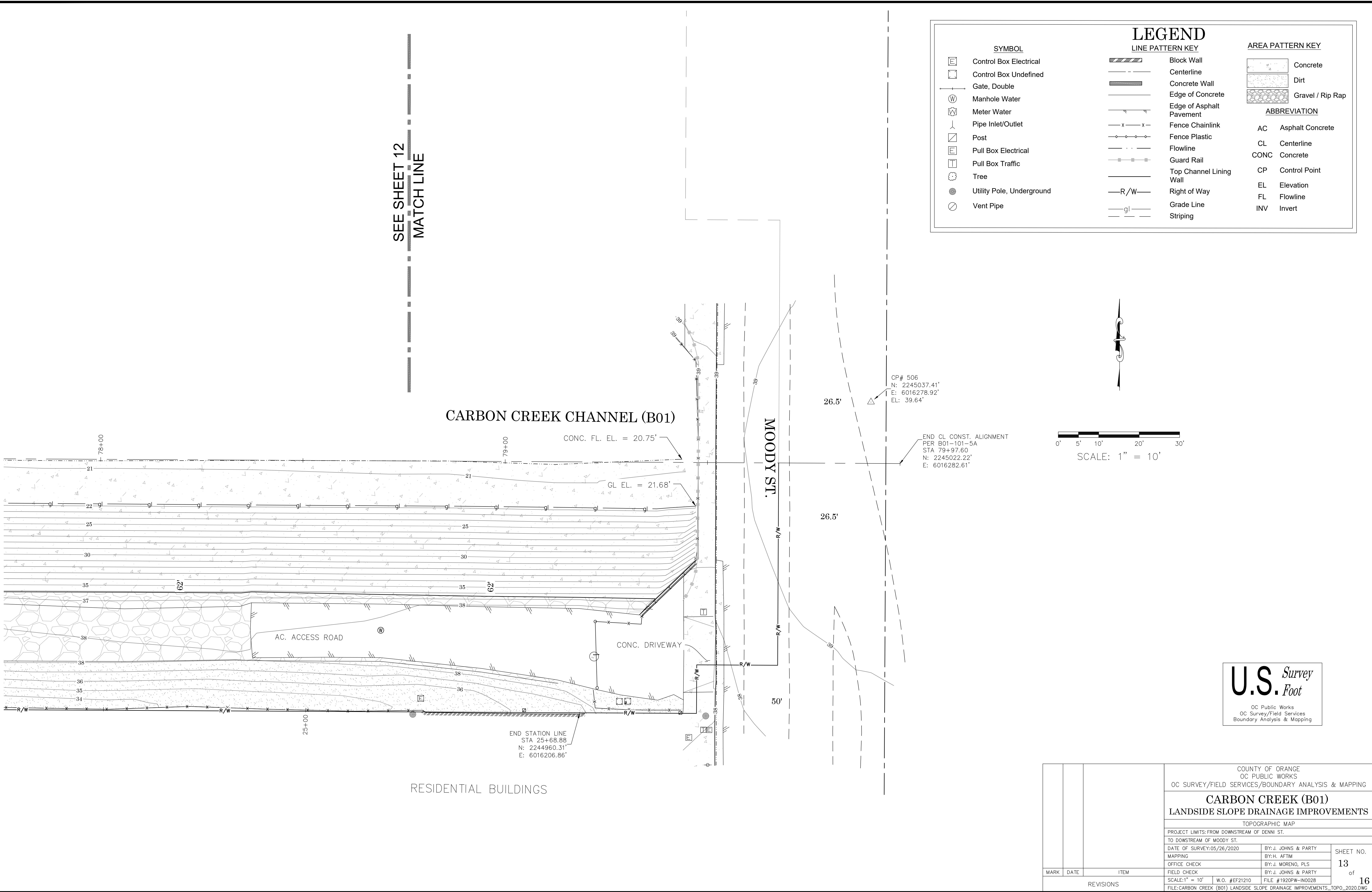
CARBON CREEK CHANNEL (B01)

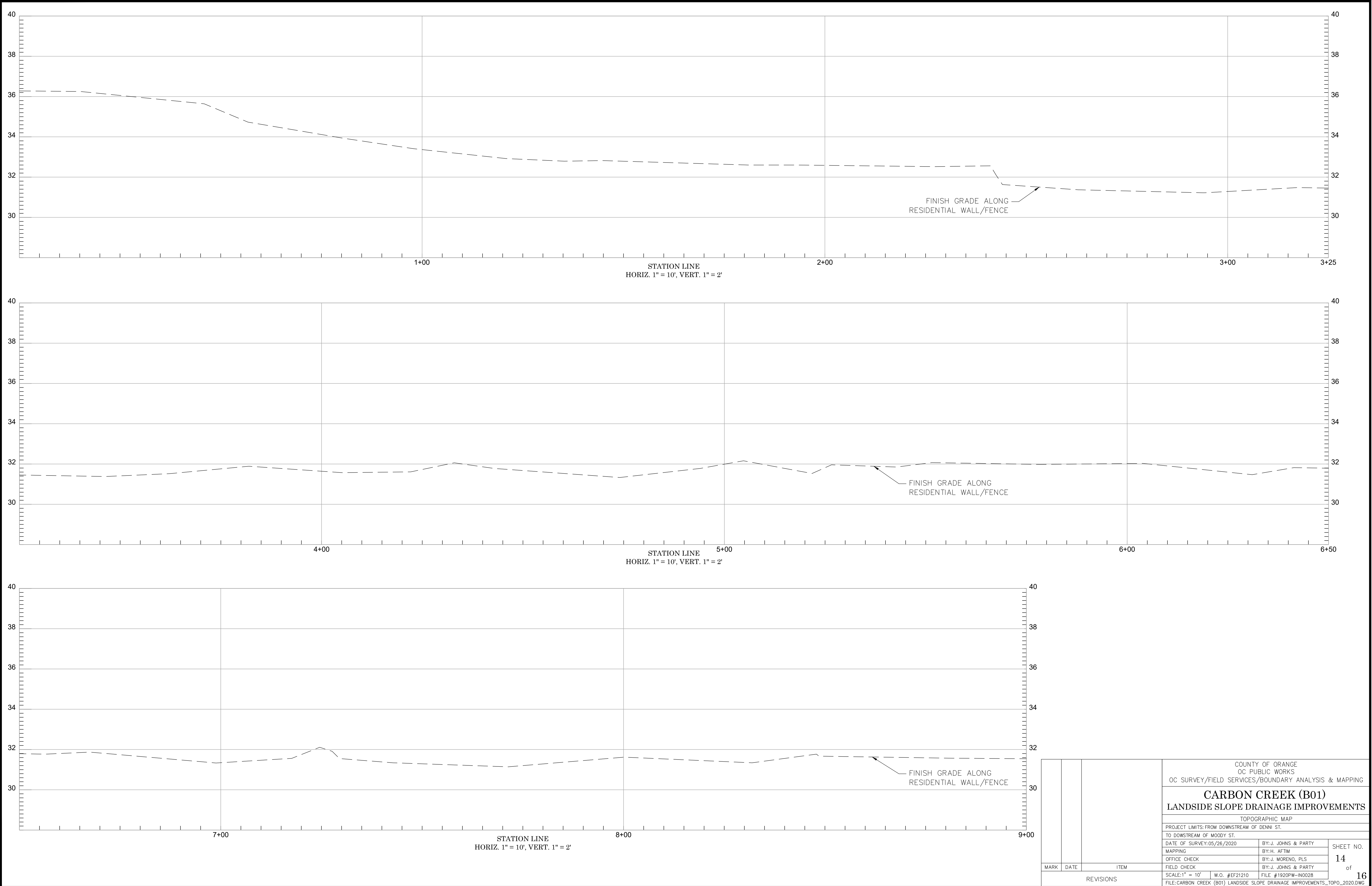


RESIDENTIAL BUILDINGS

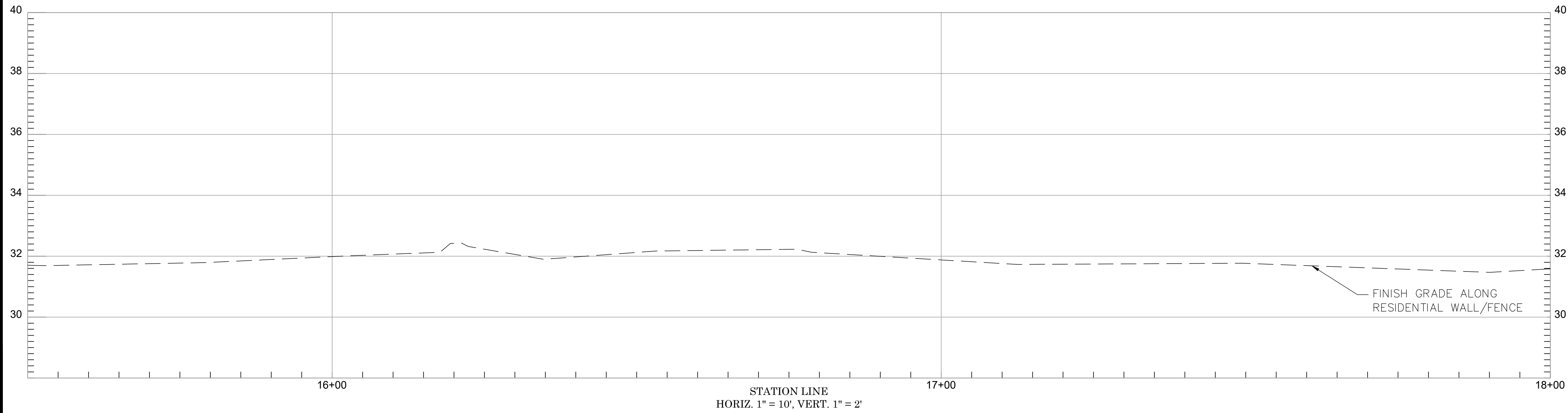
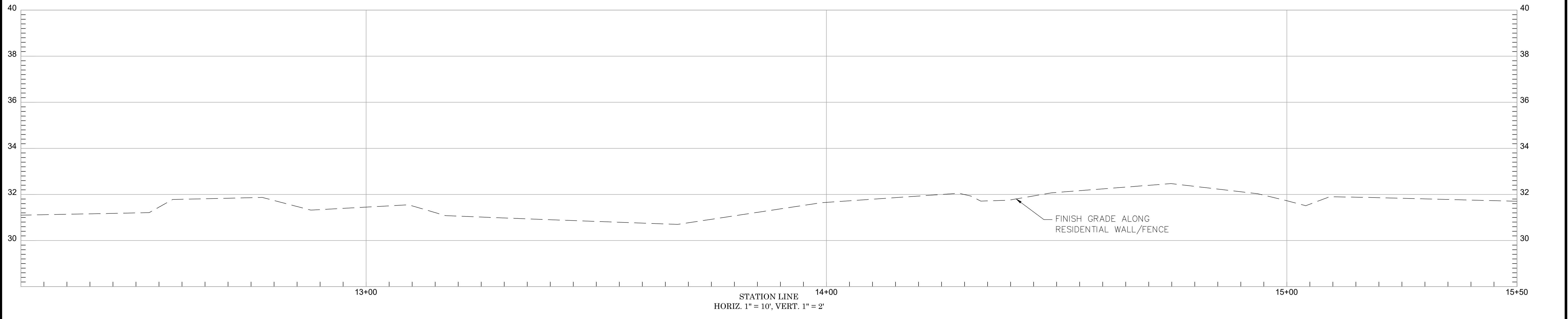
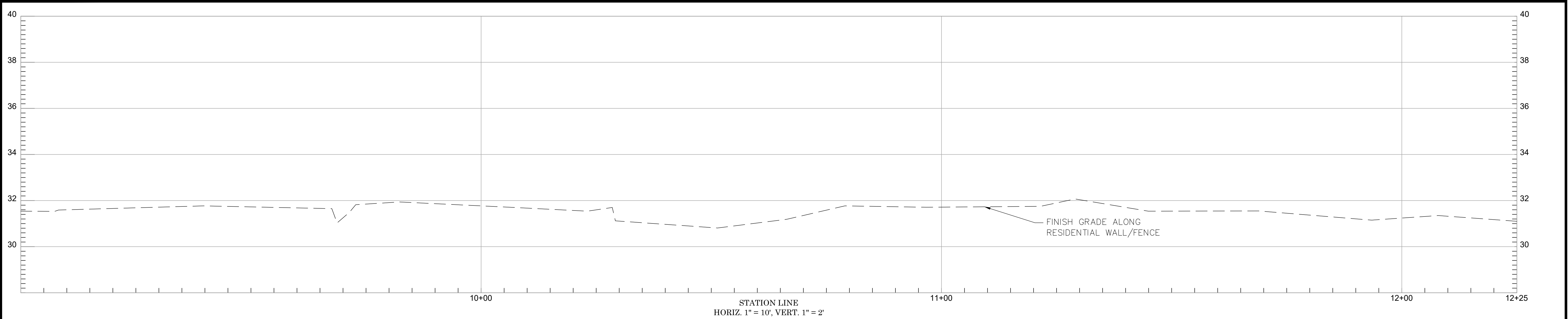


			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF WOODY ST.			
			DATE OF SURVEY: 05/26/2020		BY: J. JOHNS & PARTY	SHEET NO. 12 of 16
			MAPPING		BY: H. AFTIM	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. JOHNS & PARTY	
MARK	DATE	ITEM	SCALE: 1" = 10' W.O. #EF21210		FILE #1920PW-IN0028	
REVISIONS			FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG			

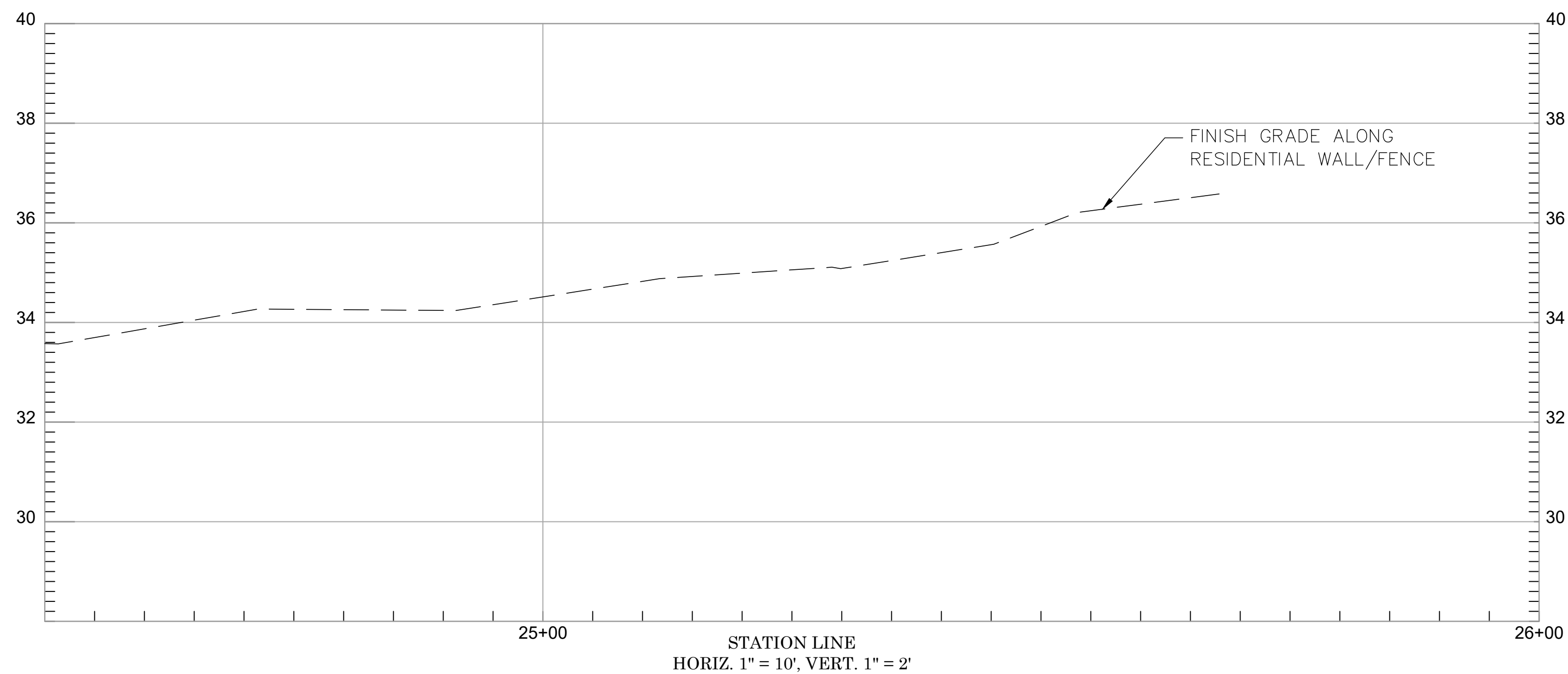
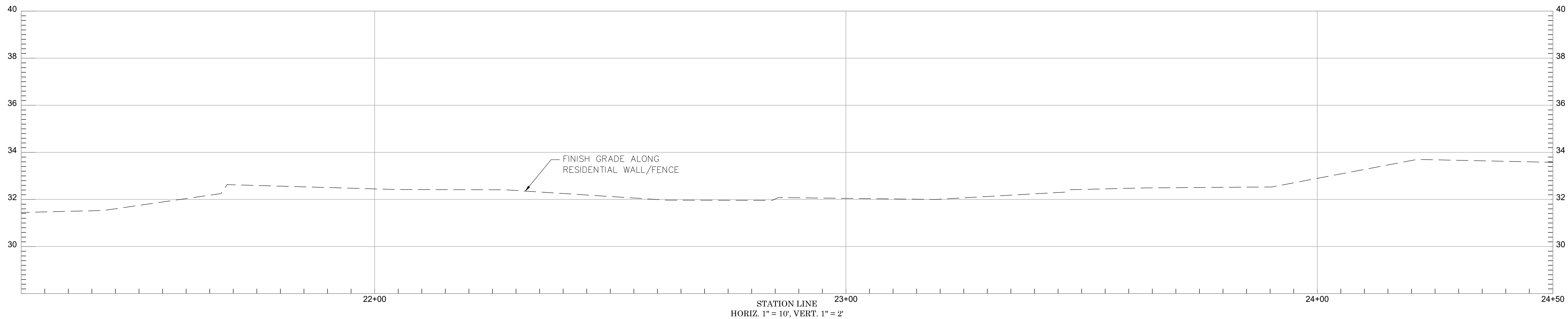
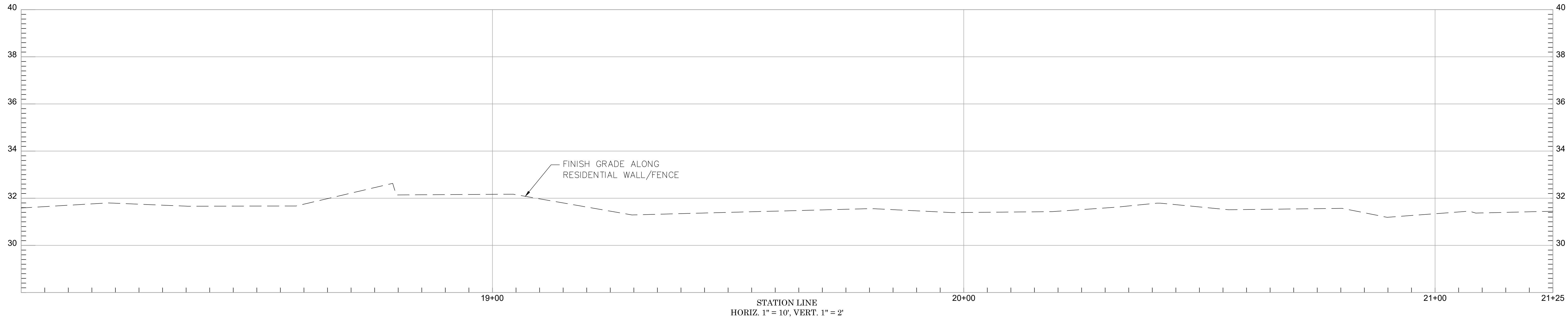




			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF WOODY ST.			
			DATE OF SURVEY: 05/26/2020		BY: J. JOHNS & PARTY	
			MAPPING		BY: H. AFTIM	
			OFFICE CHECK		BY: J. MORENO, PLS	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 10'		W.O. #EF21210	
			FILE: CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG		FILE #1920PW-IN0028	
MARK	DATE	ITEM	REVISIONS			
SHEET NO. 14 of 16						



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF MOODY ST.			
		DATE OF SURVEY:05/26/2020	BY:J. JOHNS & PARTY		SHEET NO. 15 of 16	
		MAPPING	BY:H. AFTIM			
		OFFICE CHECK	BY:J. MORENO, PLS			
		FIELD CHECK	BY:J. JOHNS & PARTY			
MARK	DATE	ITEM	SCALE:1" = 10'	W.O. #EF21210	FILE #1920PW-IN0028	
REVISIONS			FILE:CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG			



			COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS						
TOPOGRAPHIC MAP						
PROJECT LIMITS: FROM DOWNSTREAM OF DENNI ST. TO DOWNSTREAM OF MOODY ST.						
			DATE OF SURVEY:05/26/2020		BY:J. JOHNS & PARTY	
			MAPPING		BY:H. AFTIM	
			OFFICE CHECK		BY:J. MORENO, PLS	
			FIELD CHECK		BY:J. JOHNS & PARTY	
			SCALE:1" = 10'		W.O. #EF21210	
					FILE #1920PW-IN0028	
FILE:CARBON CREEK (B01) LANDSIDE SLOPE DRAINAGE IMPROVEMENTS_TOPO_2020.DWG						
MARK	DATE	ITEM	REVISIONS			