



FOUND CGPS "OE0C"  
N: 2225550.98'  
E: 6107583.77'  
THIS IS A CONTINUOUS GPS  
STATION (CGPS) AND IS PART OF  
THE CALIFORNIA SPATIAL  
REFERENCE NETWORK (CSRN),  
FROM WHICH DATA CAN BE  
DOWNLOADED HERE:  
HTTP://SOPACCSRC.UCSD.EDU/.

# OC PUBLIC WORKS DEPARTMENT

## JAMES TREADAWAY, DIRECTOR OF PUBLIC WORKS

### KEVIN HILLS PLS, COUNTY SURVEYOR

# MODJESKA GRADE ROAD



## FROM SANTIAGO CANYON ROAD TO MODJESKA CANYON ROAD ROAD AND DRAINAGE IMPROVEMENTS

FOUND CGPS "MJPK"  
N: 2206067.91'  
E: 6166204.47'  
THIS IS A CONTINUOUS GPS  
STATION (CGPS) AND IS PART OF  
THE CALIFORNIA SPATIAL  
REFERENCE NETWORK (CSRN),  
FROM WHICH DATA CAN BE  
DOWNLOADED HERE:  
HTTP://SOPACCSRC.UCSD.EDU/.

### 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 (MJPK) AND (OE0C) 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 1.000095939.  
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

### VERTICAL DATUM

O.C.S. BM. UU-4-92 ELEV. = 1420.44' YEAR LEVELED: 1992

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

DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3UU-4-92", SET IN THE TOP OF A 6 IN BY 6 IN. CONCRETE POST. MONUMENT IS LOCATED IN THE SOUTHERLY PORTION OF THE INTERSECTION OF MODJESKA GRADE ROAD AND CANYON HEIGHTS DRIVE, 35 FT. WESTERLY OF THE CENTERLINE OF MODJESKA GRADE ROAD AND 1 FT. WESTERLY OF THE WESTERLY UPHILL BARRICADE. MONUMENT IS SET LEVEL WITH THE GRADE.

### NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES. TOPOGRAPHY OUTSIDE OF THE CONVENTIONAL SURVEY LIMITS SHOWN HEREON WERE DERIVED FROM AERIAL LIDAR PROVIDED BY DMI INC.

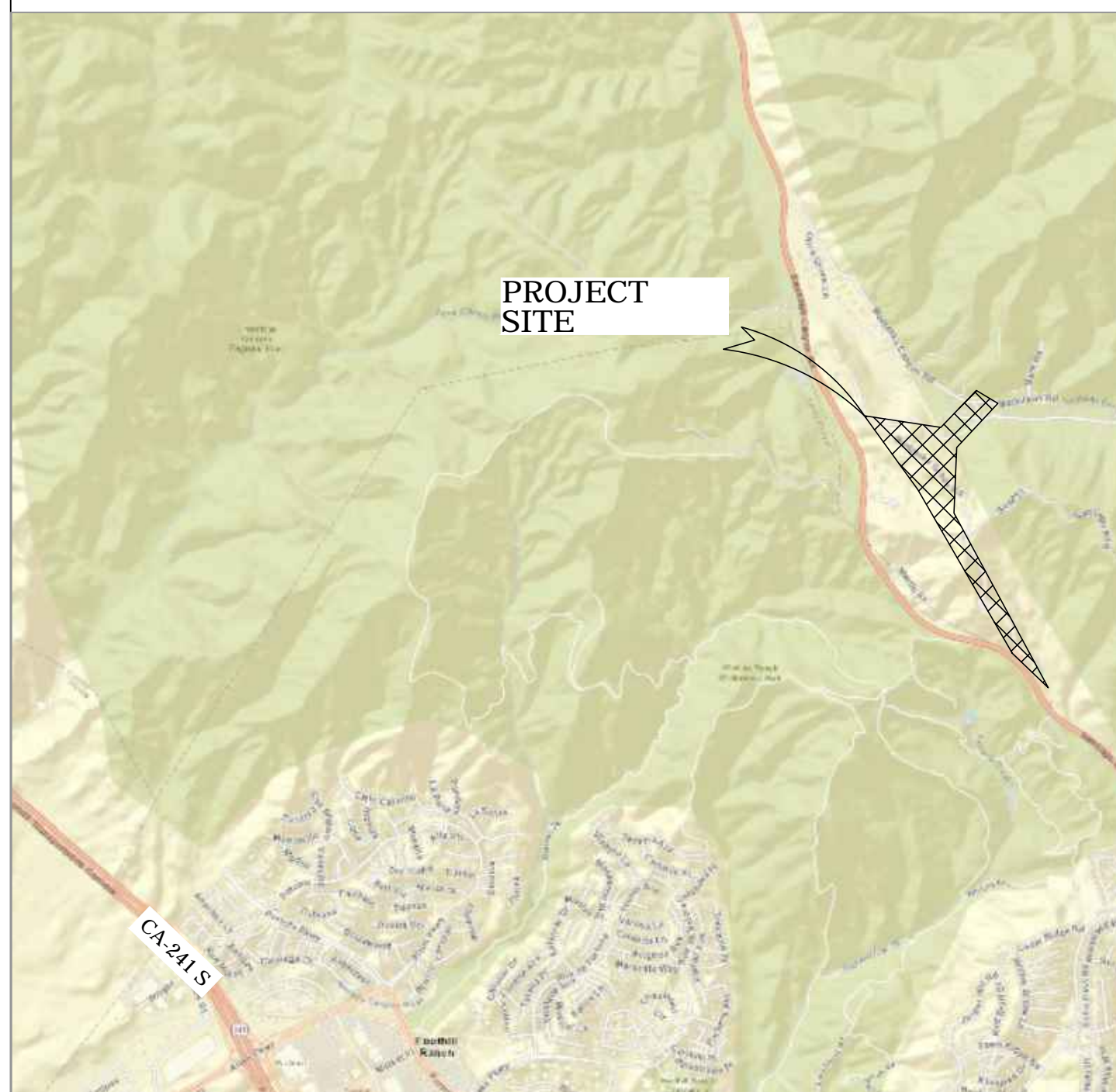
### SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET 1	1	TITLE SHEET
SHEET 2-8	2-8	BOUNDARY MAP
SHEET 9-21	9-21	TOPOGRAPHIC MAP

### PURPOSE OF SURVEY

TO PROVIDE A TOPOGRAPHIC SURVEY AND STREET RIGHT OF WAY FOR DESIGN OF ROAD AND DRAINAGE IMPROVEMENTS.

### 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 8 DAY OF DECEMBER, 2020.

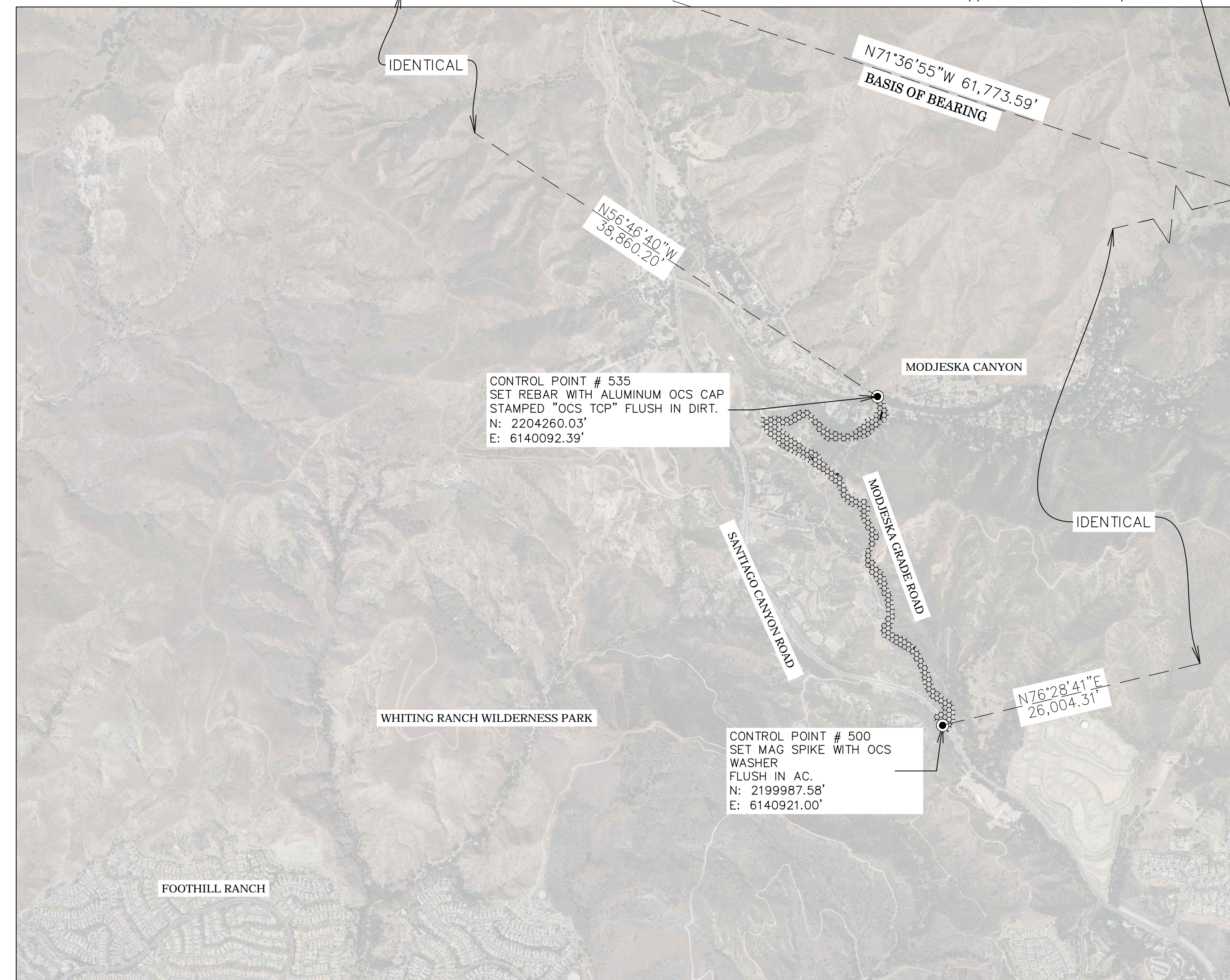
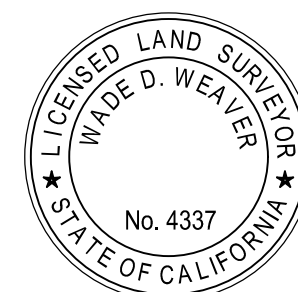
JESOM MORENO, PLS. SENIOR LAND SURVEYOR




### DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 8 DAY OF DECEMBER, 2020.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



## PRELIMINARY TOPOGRAPHIC MAPPING PROJECT

<div></div>	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS			
			TITLE SHEET			
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.			
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY	
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN	
			OFFICE CHECK		BY: J. MORENO, PLS.	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 20'		W.O. #E017009P	
			FILE: Modjeska_Grade_Road_Topo_2020.DWG		FILE NO. 1920PW-IN0018	
MARK	DATE	ITEM	REVISIONS			
SHEET NO. 1 of 21						

ESTABLISHMENT NOTES

- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENTS 1 AND 2
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD SOUTH AND SOUTHEASTERLY FROM MONUMENT1 BY HOLDING RECORD DATA PER PMB 153/15–16 (R1)
- ESTABLISHED THE CENTERLINE OF SANTIAGO CANYON RD FROM SURVEY RESULTS PERFORMED IN 2017 FOR SANTIAGO CANYON ROAD HIGHWAY SAFETY IMPROVEMENT PROJECT (HISP) SURVEY FILE NO. 1617PW–RD0003
- ESTABLISHED CENTERLINE INTERSECTION OF MODJESKA CANYON ROAD AND SANTIAGO CANYON ROAD BY INTERSECTING ESTABLISHMENT NOTES B AND C
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENTS 2 AND 3
- ESTABLISHED CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R1) AND TANGENT TO ESTABLISHMENT NOTES A AND E
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 153/15–16 (R1) AND FOUND MONUMENTS 6 AND 7
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENT3 AND ESTABLISHMENT NOTE G
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R1) AND TANGENT TO ESTABLISHMENT NOTES E AND H
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 153/15–16 (R1) AND FOUND MONUMENTS 6 AND 7
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES G AND J
- ESTABLISHED CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R1) AND TANGENT TO ESTABLISHMENT NOTES H AND I
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENT7 AND ESTABLISHMENT NOTE C
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 83/1–3 (R3) AND FOUND MONUMENTS 7 AND 8
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENT7 AND ESTABLISHMENT NOTE N
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES K AND O
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 83/1–3 (R3) AND FOUND MONUMENTS 7 AND 8
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES N AND O
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES O AND P
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 83/1–3 (R3) AND FOUND MONUMENTS 7 AND 8
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES O AND T
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- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES T AND W

- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES U AND X
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER PMB 83/1–3 (R3) AND FOUND MONUMENTS 7 AND 8
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES W AND Z
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES X AND A
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES Z AND FOUND MONUMENT 8
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES A AND A
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS 8 AND 9
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES A AND A
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS 8 AND 9
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R3) AND TANGENT TO ESTABLISHMENT NOTES A AND A
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER MM 437/3–6 (R4) AND FOUND MONUMENTS 9 AND 10
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT9 AND ESTABLISHMENT NOTE A
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES A AND A
- ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER MM 437/3–6 (R4) AND FOUND MONUMENTS 9 AND 10
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- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTE A AND FOUND MONUMENT 10
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES A AND A
- ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS 10 AND 11
- ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES A AND A

NOTES

STREET R/W SHOWN ARE BASED ON STREET WIDTHS FROM RECORD DOCUMENTS AND MAPS.

REFERENCES

- (R1) = PMB 153/15–16  
(R2) = TRACT NO. 12365 MM 649/14–18  
(R3) = PMB 83/1–3  
(R4) = TRACT NO. 9652 MM 437/3–6  
(R5) = CSTB 146/23–40  
(R6) = MM 9/41–43  
(R7) = TRACT NO. 11767 MM 628/35–36  
(R8) = A/5–7,6&8/216–228


LEGEND

- FOUND MONUMENT AS NOTED  
⊗ SEARCHED, FOUND NOTHING  
■ SEARCHED, FOUND NOTHING ESTABLISHED BY LEAST SQUARE ADJUSTMENT UNLESS OTHERWISE NOTED.

- S.F.N. SEARCHED, FOUND NOTHING  
R RECORD  
M MEASURED

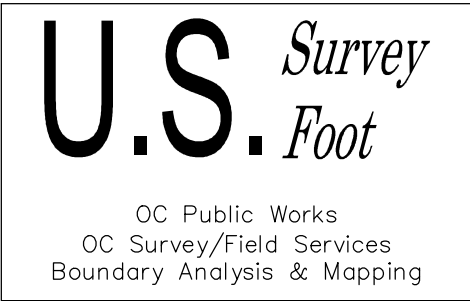
MONUMENT NOTES


- FOUND SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 218 OF REFERECE) ACCEPTED AS BC #7 PER (R8) ON CENTERLINE OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 219 OF REFERENCE) ACCEPTED AS PI #5 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 220 OF REFERENCES) ACCEPTED AS PI #3 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 220 OF REFERENCE) N71°43'27"W 0.37 FEET FROM EC #3 PER (R8).
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 219 OF REFERENCE) N20°29'18"W 0.06 FEET FROM BC #5 PER (R8).
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 220) ON CENTERLINE OF MODJESKA GRADE ROAD N59°00'19"W 0.13' FROM EC #1 PER (R8).
- FOUND 1 INCH IP WITH NAIL IN CONC PLUG DN. 1.1 FEET ACCEPTED AS PI #2 PER (R8) OF MODJESKA GRADE ROAD. IN DIRT, IN LIEU OF 1 INCH IP AND TAG "LS 3186" PER (R8 PG. 222 OF REFERENCE)
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 224 OF REFERENCE) ACCEPTED AS PI #7 PER (R8) OF MODKESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 224 OF REFERENCE) ACCEPTED AS PI #8 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 225 OF REFERENCE) ACCEPTED AS PI #12 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND 1 INCH IP CONC PLUG WITH NAIL PER (R8 PG. 225 OF REFERENCE) DN. 0.5 FEET IN DIRT ACCEPTED AS PI #13 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 226 OF REFERENCE) ACCEPTED AS PI #15 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND MAG SPIKE AND 2 INCH ALUMINUM WASHER STAMPED "LS 8932" FLUSH IN AC. NO REF. ACCEPTED AS PI #16 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 227 OF REFERENCE) ACCEPTED AS PI #18 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC NO REF, SHOWN AS SET NOTHING PER (R8 PG. 227 OF REFERENCE) ACCEPTED AS PI #19 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC PER (R8 PG. 227 OF REFERENCE) ACCEPTED AS PI #20 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUNCHED SPIKE AND 1 1/2 INCH OCS WASHER FLUSH IN AC NO REF, SHOWN AS SET NOTHING PER (R8 PG. 227 OF REFERENCE) ACCEPTED AS PI #22 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUN SPIKE AND 1 1/4 INCH OCS WASHER FLUSH IN AC NO REF N66°26'23"E 0.33 FEET. FROM PI PER ESTABLISHMENT NOTEB.
- FOUND 3/4 INCH IP WITH CONC PLUG AND NAIL PER (R8 PG. 228 OF REFERENCE) DN. 0.5 FEET IN AC. ACCEPTED AS PI #26 PER (R8) OF MODJESKA GRADE ROAD.
- FOUND PUN BOAT SPIKE AND 1 1/4 INCH NO REF DN. 0.5 FEET IN AC. ACCEPTED AS PI #27 PER (R5) OF MODJESKA GRADE ROAD.
- FOUND 3/4 INCH IP WITH NAIL IN CONC PLUG IN AC NO REF DN. 0.5 FEET IN AC. N81°55'45"W 0.18 FEET FROM PRC OF MODJESKA GRADE ROAD.
- FOUND 2 INCH IP NO TAG PER (R7) DN. 1.75 FEET OCS WELL MONUMENT ACCEPTED AS CENTERLINE INTERSECTION OF MODJESKA GRADE ROAD AND MODJESKA CANYON ROAD PER (R7).
- FOUND 2 INCH IP WITH TAG STAMPED "LS 2988" IN LIEU OF 2 INCH IP PER (R7). ACCEPTED AS PI OF VACATED LOT "A" CENTERLINE PER (R7).
- FOUND 3/4 INCH IP WITH PER (R7) DN. 0.5 FEET IN OCS WELL MONUMENT ACCEPTED AS POINT ON CENTERLINE OF MODJESKA CANYON ROAD.
- FOUND PK NAIL, FLUSH IN AC. NO REF, ACCEPTED AS POINT ON CENTERLINE FITS RECORD DISTANCE TO VACATED CENTERLINE OF LOT "A" PER (R7).

				COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
				MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS				
				TOPOGRAPHIC MAP				
				PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD & MODJESKA CANYON RD.				
	8/22/24	INCLUDE CONSTRUCTION CL TO SHEET 4		DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO.  2 of 21
				MAPPING		BY: R. BELTRAN		
				OFFICE CHECK		BY: M. MORENO, PLS		
				FIELD CHECK		BY: J. JOHNS & PARTY		
				SCALE: NO SCALE		W.O. #E017009P		
MARK	DATE	ITEM		MODJESKA GRADE ROAD_BOUNDARY_2024.DWG				
		REVISIONS						

ESTABLISHMENT NOTES

<div><div><div><div></div><div></div></div><div></div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER MM 437/3–6 (R4) AND FOUND MONUMENTS <div>11</div> AND <div>12</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT <div>11</div> AND ESTABLISHMENT NOTE <div>A1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 143/23–40 (R5) AND FOUND MONUMENTS <div>17</div> AND <div>19</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTE <div>C1</div> AND FOUND MONUMENT <div>22</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTE <div>A1</div> AND FOUND MONUMENT <div>12</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>A1</div> AND <div>A1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED OLD CENTERLINE BEARING OF LOT "A" PER M.M. 9/41–43 HOLDING FOUND MONUMENTS <div>22</div> AND <div>23</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS <div>12</div> AND <div>13</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 143/23–40 (R5) AND FOUND MONUMENTS <div>17</div> AND <div>19</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED CENTERLINE INTERSECTION OF MODJESKA CANYON RD AND SHADOWLAND CIRCLE BY HOLDING DISTANCE ALONG ESTABLISHMENT NOTE <div>C1</div> FROM FOUND MONUMENT <div>22</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>A1</div> AND <div>A1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED CENTERLINE BEARING OF MODJESKA CANYON RD BY HOLDING RECORD ANGLE FROM ESTABLISHMENT NOTE <div>C1</div> AT ESTABLISHMENT NOTE <div>C1</div> PER M.M. 628/35–36 (R7)
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER MM 437/3–6 (R4) AND FOUND MONUMENTS <div>13</div> AND <div>14</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED BY INTERSECTION OF SOUTHERLY PROLONGATION OF MODJESKA CANYON RD, ESTABLISHMENT NOTE <div>C1</div> , WITH MODJESKA GRADE RD ESTABLISHMENT NOTE <div>C1</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT <div>13</div> AND ESTABLISHMENT NOTE <div>A1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>E1</div> AND MONUMENT <div>19</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED BY HOLDING RECORD DISTANCE PER M.M. 628/35–36 (R7) NORTHERLY FROM ESTABLISHMENT NOTE <div>C1</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>A1</div> AND <div>A1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED CENTERLINE BEARING OF SHADOWLAND CIRCLE BY HOLDING RECORD ANGLE FROM SOUTHERLY PROLONGATION OF ESTABLISHMENT NOTE <div>C1</div> AT ESTABLISHMENT NOTE <div>C1</div> PER M.M. 628/35–36 (R7)
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTE <div>A1</div> AND FOUND MONUMENT <div>14</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS <div>19</div> AND <div>20</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED CENTERLINE BEARING OF SHADOWLAND CIRCLE BY HOLDING BEARING OF ESTABLISHMENT NOTE <div>C1</div> AT FOUND MONUMENT <div>23</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>A1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF SHADOWLAND CIRCLE BY HOLDING RECORD RADIUS PER M.M. 628/35–36 (R7) AND TANGENT TO ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENTS <div>14</div> AND <div>15</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 146/23–40 (R5) AND FOUND MONUMENTS <div>20</div> AND <div>22</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT <div>20</div> AND ESTABLISHMENT NOTE <div>E1</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING MONUMENTS <div>15</div> AND <div>16</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R4) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 146/23–40 (R5) AND FOUND MONUMENTS <div>20</div> AND <div>22</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER MM 437/3–6 (R4) AND FOUND MONUMENTS <div>16</div> AND <div>17</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>E1</div> AND <div>C1</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT <div>16</div> AND ESTABLISHMENT NOTE <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>C1</div>	
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<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTE <div>E1</div> AND MONUMENT <div>17</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>E1</div> AND <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE OF MODJESKA GRADE ROAD BY HOLDING RECORD RADIUS PER (R5) AND TANGENT TO ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 143/23–40 (R5) AND FOUND MONUMENTS <div>17</div> AND <div>19</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED PI OF MODJESKA GRADE ROAD BY LEAST SQUARES ADJUSTMENT USING RECORD DATA PER CSTB 146/23–40 (R5) AND FOUND MONUMENTS <div>20</div> AND <div>22</div>	
<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING FOUND MONUMENT <div>17</div> AND ESTABLISHMENT NOTE <div>E1</div>	<div><div><div><div></div><div></div></div><div></div></div><div></div></div> ESTABLISHED THE CENTERLINE BEARING OF MODJESKA GRADE ROAD BY HOLDING ESTABLISHMENT NOTES <div>C1</div> AND <div>C1</div>	

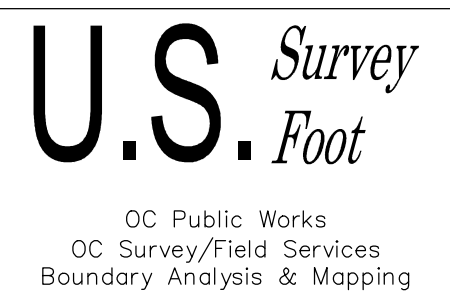



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD & MODJESKA CANYON RD.			
	8/22/24	INCLUDE CONSTRUCTION CL TO SHEET 4	DATE OF SURVEY: OCTOBER, 2019		SHEET NO.  3 of 21	
			BY: J. JOHNS & PARTY			
			MAPPING			BY: R. BELTRAN
			OFFICE CHECK			BY: M. MORENO, PLS
			FIELD CHECK			BY: J. JOHNS & PARTY
MARK	DATE	ITEM	SCALE: NO SCALE      W.O. #E017009P      FILE #1920PW-IN0018 FILE: MODJESKA GRADE ROAD_BOUNDARY_2024.DWG			
REVISIONS						

\_\_\_\_\_ <sup>1</sup> \_\_\_\_\_

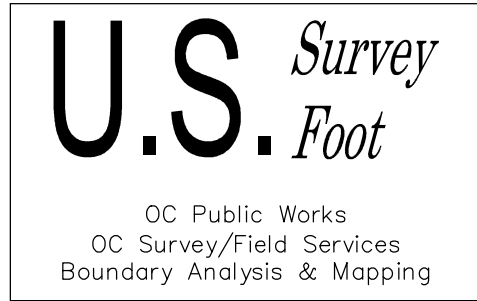
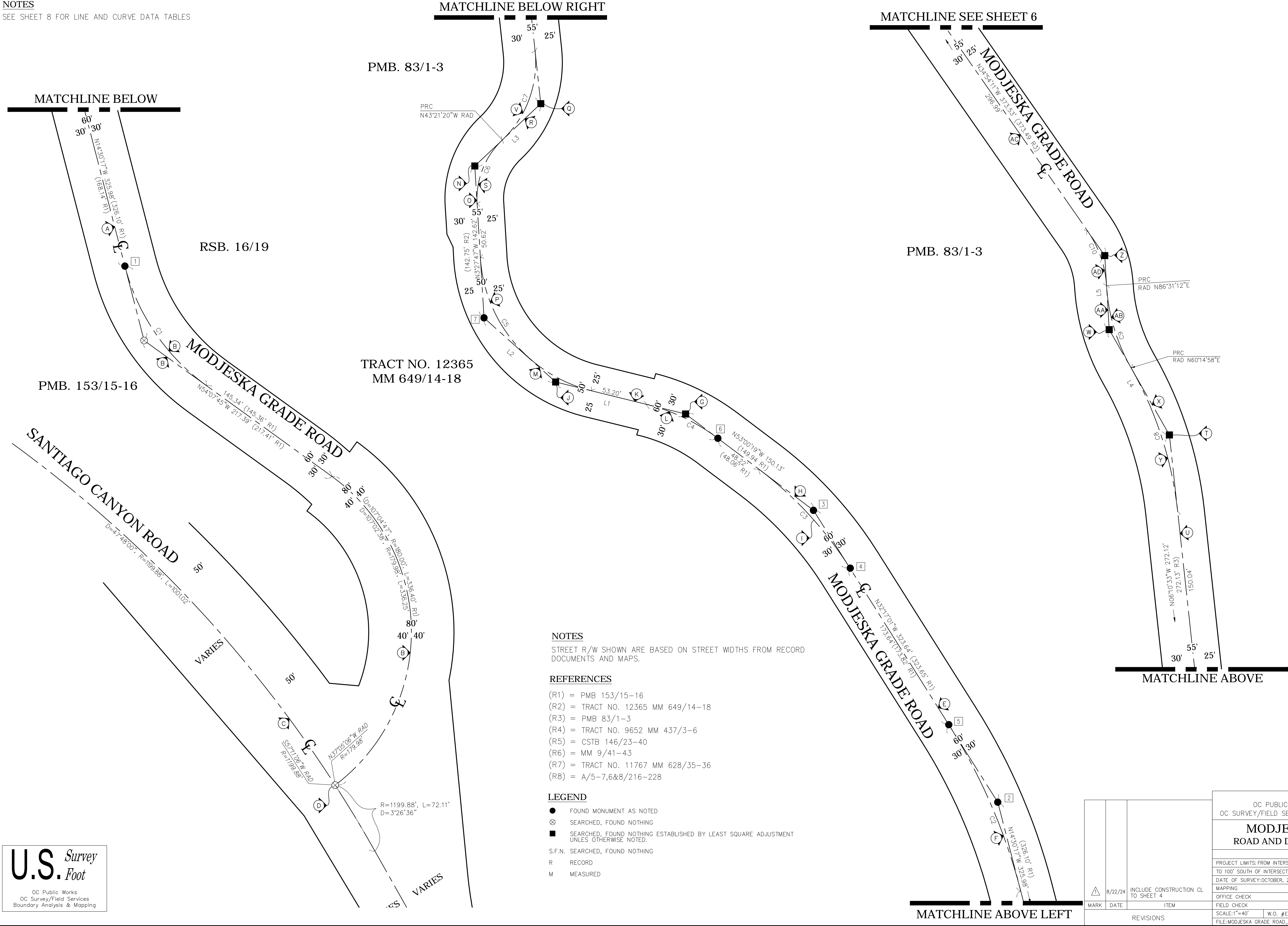


A graphic scale bar at the bottom of the page indicates distances in feet, with markings for 0', 50', 100', 200', and 300'. Below the scale bar, the text reads: SCALE: 1" = 100'. A north arrow is located at the top center of the page, pointing upwards.



<div></div>	8/22/24	INCLUDE CONSTRUCTION CL TO SHEET 4	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD. & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.			
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY	
MAPPING		BY: R. BELTRAN				
OFFICE CHECK		BY: M. MORENO, PLS				
FIELD CHECK		BY: J. JOHNS & PARTY				
MARK	DATE	ITEM	SCALE: 1"=40'	W.O. #E017009P	FILE #1920PW-IN0018	
REVISIONS			FILE: MODJESKA GRADE ROAD_BOUNDARY_2024.DWG			

NOTES  
SEE SHEET 8 FOR LINE AND CURVE DATA TABLES



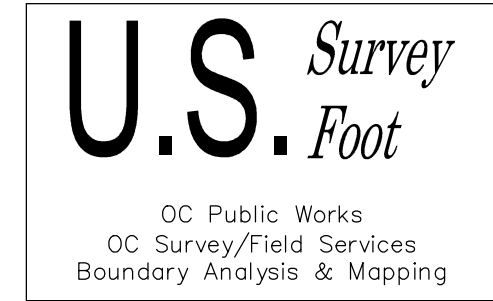
NOTES  
STREET R/W SHOWN ARE BASED ON STREET WIDTHS FROM RECORD DOCUMENTS AND MAPS.

- REFERENCES
- (R1) = PMB 153/15-16
  - (R2) = TRACT NO. 12365 MM 649/14-18
  - (R3) = PMB 83/1-3
  - (R4) = TRACT NO. 9652 MM 437/3-6
  - (R5) = CSTB 146/23-40
  - (R6) = MM 9/41-43
  - (R7) = TRACT NO. 11767 MM 628/35-36
  - (R8) = A/5-7,6&8/216-228

- LEGEND
- FOUND MONUMENT AS NOTED
  - ⊗ SEARCHED, FOUND NOTHING
  - SEARCHED, FOUND NOTHING ESTABLISHED BY LEAST SQUARE ADJUSTMENT UNLESS OTHERWISE NOTED.
  - S.F.N. SEARCHED, FOUND NOTHING
  - R RECORD
  - M MEASURED

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS		
			TOPOGRAPHIC MAP		
			PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD & MODJESKA CANYON RD.		
			DATE OF SURVEY: OCTOBER, 2019		SHEET NO.  <b>5</b> of <b>21</b>
			BY: J. JOHNS & PARTY		
			MAPPING		
			BY: R. BELTRAN		
			OFFICE CHECK		FILE #1920PW-IN0018
			BY: M. MORENO, PLS		
			FIELD CHECK		
			BY: J. JOHNS & PARTY		FILE: MODJESKA GRADE - ROAD_BOUNDARY_2024.DWG
			SCALE: 1"=40'		
			W.O. #E017009P		
			REVISIONS		
			</		

NOTES  
SEE SHEET 8 FOR LINE AND CURVE DATA TABLES



MATCHLINE SEE SHEET 7

MODJESKA GRADE ROAD

TRACT NO. 9652  
MM 437/3-6

MM 9/39-40

MATCHLINE ABOVE

MATCHLINE BELOW

TRACT NO. 9652  
MM 437/3-6

MODJESKA GRADE ROAD

TRACT NO. 9652  
MM 437/3-6

MATCHLINE SEE SHEET 5

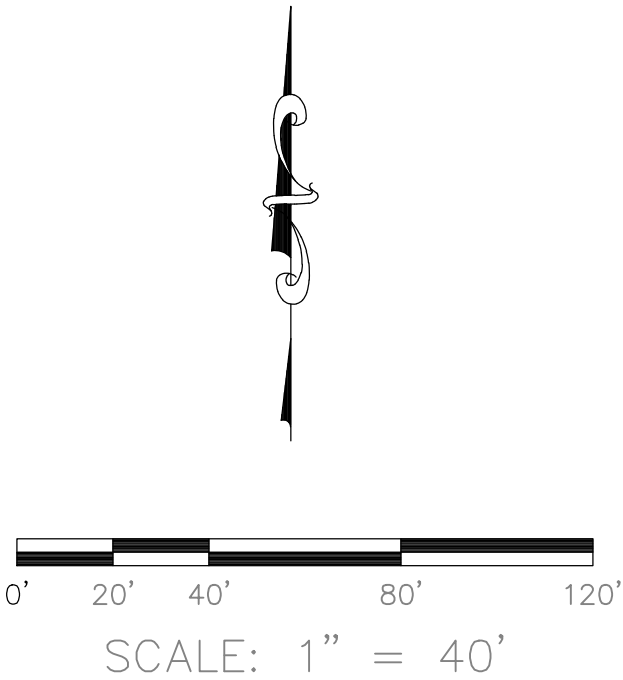
NOTES  
STREET R/W SHOWN ARE BASED ON STREET WIDTHS FROM RECORD DOCUMENTS AND MAPS.


REFERENCES

- (R1) = PMB 153/15-16  
(R2) = TRACT NO. 12365 MM 649/14-18  
(R3) = PMB 83/1-3  
(R4) = TRACT NO. 9652 MM 437/3-6  
(R5) = CSTB 146/23-40  
(R6) = MM 9/41-43  
(R7) = TRACT NO. 11767 MM 628/35-36  
(R8) = A/5-7,6&8/216-228

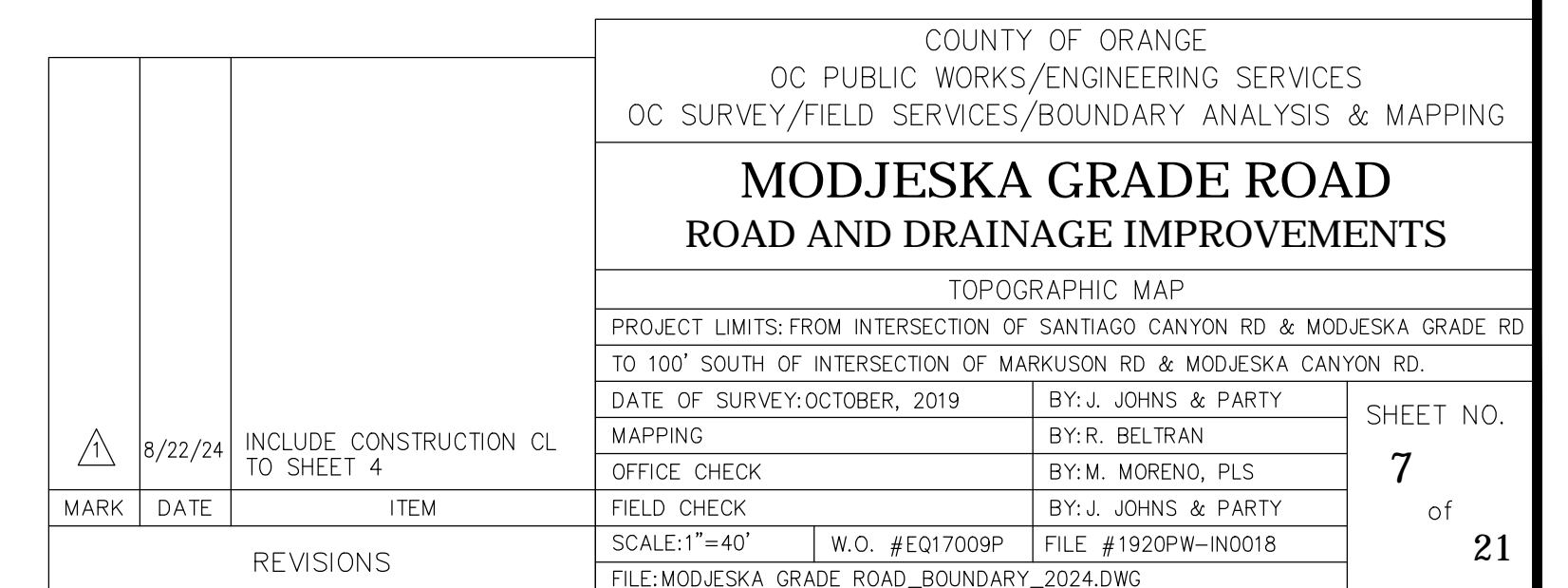
LEGEND

- FOUND MONUMENT AS NOTED  
⊗ SEARCHED, FOUND NOTHING  
■ SEARCHED, FOUND NOTHING ESTABLISHED BY LEAST SQUARE ADJUSTMENT UNLES OTHERWISE NOTED.  
S.F.N. SEARCHED, FOUND NOTHING  
R RECORD  
M MEASURED



				COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS			
		TOPOGRAPHIC MAP			
		PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD & MODJESKA CANYON RD.			
		DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY	
		MAPPING		BY: R. BELTRAN	
		OFFICE CHECK		BY: M. MORENO, PLS	
		FIELD CHECK		BY: J. JOHNS & PARTY	
		SCALE: 1"=40'		W.O. #E017009P	
				FILE #1920PW-IN018	
		FILE: MODJESKA GRADE ROAD_BOUNDARY_2024.DWG			
		SHEET NO. 6 of 21			
		8/22/24		INCLUDE CONSTRUCTION CL TO SHEET 4	
MARK		DATE		ITEM	
		REVISIONS			

## SEE SHEET 8 FOR LINE AND CURVE DATA TABLES

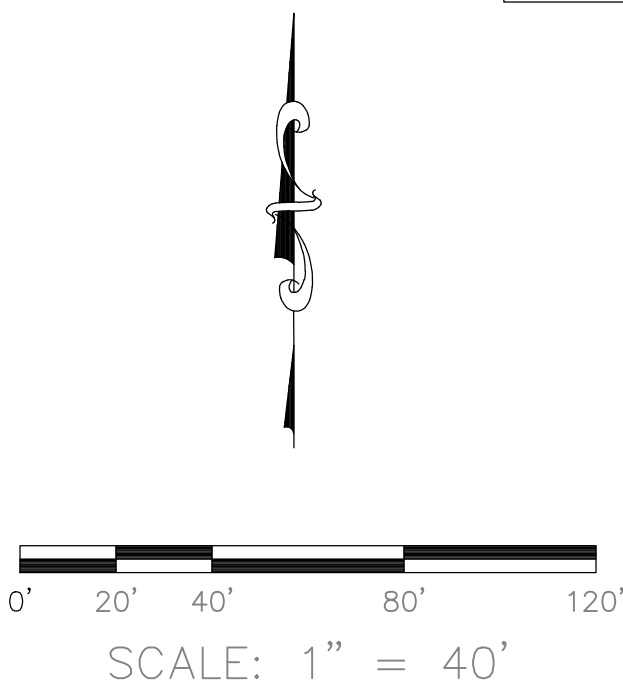


STREET R/W SHOWN ARE BASED ON STREET WIDTHS FROM RECORD DOCUMENTS AND MAPS.


(R1) = PMB 153/15-16  
(R2) = TRACT NO. 12365 MM 649/14-18  
(R3) = PMB 83/1-3  
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(R7) = TRACT NO. 11767 MM 628/35-36  
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● FOUND MONUMENT AS NOTED  
 ⊗ SEARCHED, FOUND NOTHING  
 ■ SEARCHED, FOUND NOTHING ESTABLISHED BY LEAST SQUARE ADJUSTMENT  
 UNLESS OTHERWISE NOTED.

S.F.N. SEARCHED, FOUND NOTHING  
 R RECORD  
 M MEASURED



LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N76°10'46"W	125.56'	(125.70' R1)
L2	N48°10'17"W	90.16'	(90.31' R2)
L3	N46°38'40"E	85.09'	(85.11' R2)
L4	N29°45'09"W	113.75'	(M&R R3)
L5	N03°29'15"W	69.50'	(M&R R3)
L6	N04°35'10"W	103.80'	(103.83' R3)
L7	N37°59'41"W	137.17'	(137.19' R4)
L8	N09°58'29"E	116.91'	(116.90' R4)
L9	N39°54'32"W	122.64'	(122.69' R4)
L10	N88°42'09"W	102.95'	(103.02' R4)
L11	N18°12'07"W	118.77'	(118.78' R4)
L12	N63°26'50"E	84.74'	(84.78' R5)
L13	N69°00'11"E	65.32'	(65.33' R5)
L14	N79°40'38"E	81.40'	(M&R R5)
L15	N23°58'46"W	83.40'	(83.39' R5)

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			<b>MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS</b>			
			TOPOGRAPHIC MAP			
			PROJECT LIMITS: FROM INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO 100' SOUTH OF INTERSECTION OF MARKUSON RD & MODJESKA CANYON RD.			
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY	
 8/22/24	INCLUDE CONSTRUCTION CL TO SHEET 4	MAPPING		SHEET NO.  <div style="font-size: 2em; font-weight: bold; text-align: center;">8</div> <div style="text-align: center;">of</div> <div style="font-size: 2em; font-weight: bold; text-align: center;">21</div>		
		OFFICE CHECK				
		FIELD CHECK				
		SCALE: 1"=40'				
		FILE: MODJESKA GRADE ROAD_BOUNDARY_2024.DWG				
MARK	DATE	ITEM	REVISIONS			

SEE SHEET 10

CP #502  
N: 22003893.96'  
E: 6140777.69'  
EL.=1439.42'

MODJESKA GRADE ROAD

SANTIAGO CANYON ROAD

WOODEN UTILITY POLE  
#4622161E

24" CMP  
INV EL.=1382.82'

CP #500  
N: 2199987.58'  
E: 6140921.00'  
EL.=1378.14'

WOODEN UTILITY POLE  
#4622159E

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

LEGEND

SYMBOL

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line Appurtenance-Undefined
- Yard Light

LINE PATTERN KEY

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

ABBREVIATION

- AC Asphalt Concrete
- BC Beginning of Curve
- BM Benchmark
- CL Centerline
- CONC Concrete
- CP Control Point
- DIA Diameter
- ECMH Electrical Manhole
- EL Elevation
- SDMH Storm Drain Manhole

AREA PATTERN KEY

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

0' 10' 20' 40' 60'

SCALE: 1" = 20'

U.S. Survey Foot

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

<div>⚠</div>	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS					
			TOPOGRAPHIC MAP					
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.					
	MARK	DATE	ITEM	DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO. <div>9</div> of <div>21</div>
				TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
	OFFICE CHECK		BY: J. MORENO, PLS.					
	FIELD CHECK		BY: J. JOHNS & PARTY					
	SCALE: 1" = 20'		W.O. #EQ17009P		FILE NO. 1920PW-IN018			
	REVISIONS		FILE: Modjeska Grade Road_Topo_2020.DWG					

SEE SHEET 11

## LEGEND

### SYMBOL

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

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- Planter Wall
- Right of Way
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### ABBREVIATION

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- CONC Concrete
- CP Control Point
- DIA Diameter
- ECMH Electrical Manhole
- EL Elevation
- SDMH Storm Drain Manhole


### AREA PATTERN KEY

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

## NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

SEE SHEET 9

	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS				
			TOPOGRAPHIC MAP				
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.				
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO. <b>10</b> of <b>21</b>
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
			OFFICE CHECK		BY: J. MORENO, PLS.		
			FIELD CHECK		BY: J. JOHNS & PARTY		
			SCALE: 1" = 20'		FILE NO. 1920PW-IN018		
			FILE: Modjeska Grade Road_Topo_2020.DWG				
MARK	DATE	ITEM	REVISIONS				

**U.S. Survey**  
**Foot**

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

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

LEGEND

SYMBOL	LINE PATTERN KEY
	Centerline
	Edge of Concrete
	Edge of Asphalt Pavement
	Fence Barbed-Wire
	Fence Chainlink
	Fence Wood
	Flowline
	Guard Rail
	Hinge Point
	Limits of Conventional Survey
	Planter Wall
	Right of Way
	Striping
	Wall

ABBREVIATION	AREA PATTERN KEY
AC	Concrete
BC	
BM	
CL	
CONC	
CP	
DIA	
ECMH	
EL	
SDMH	
	Dirt
	Brick
	Gravel / Rip Rap

ORIOLE STREET  
PRIVATE STREET

CP #507  
N: 2201202.79'  
E: 6140188.25'  
EL.=1563.63'

12" CMP  
INV EL.=1563.55'

FLOWLINE  
EL.=1558.57'

FLOWLINE  
EL.=1545.90'

CP #506  
N: 2201071.35'  
E: 6140461.05'  
EL.=1527.83'

FLOWLINE  
EL.=1521.98'

12" CMP  
INV EL.=1503.25'

16" CMP  
INV EL.=1514.93'

SEE SHEET 12

SEE SHEET 10

	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
				<b>MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS</b>
				TOPOGRAPHIC MAP
				FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.
				DATE OF SURVEY: OCTOBER, 2019 TOPOGRAPHIC MAPPING OFFICE CHECK FIELD CHECK SCALE: 1" = 20'   W.O. #E017009P   FILE NO. 1920PW-IN0018 FILE: Modjeska_Grade_Road_Topo_2020.DWG
MARK	DATE	ITEM	BY: J. JOHNS & PARTY BY: R. BELTRAN BY: J. MORENO, PLS. BY: J. JOHNS & PARTY	SHEET NO. <b>11</b> of <b>21</b>
REVISIONS				

SEE SHEET 13

LEGEND

SYMBOL

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

LINE PATTERN KEY

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

ABBREVIATION

- AC Asphalt Concrete
- BC Beginning of Curve
- BM Benchmark
- CL Centerline
- CONC Concrete
- CP Control Point
- DIA Diameter
- ECMH Electrical Manhole
- EL Elevation
- SDMH Storm Drain Manhole

AREA PATTERN KEY

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

SEE SHEET 11

ORIOLE STREET  
PRIVATE STREET

SCALE: 1" = 20'

U.S. Survey  
Foot

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

CP #507  
N: 2201202.79'  
E: 6140188.25'  
EL=1563.63'

FLOWLINE  
EL=1558.57'

11.4.24

ADDITIONAL TOPO

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

MODJESKA GRADE ROAD  
ROAD AND DRAINAGE IMPROVEMENTS

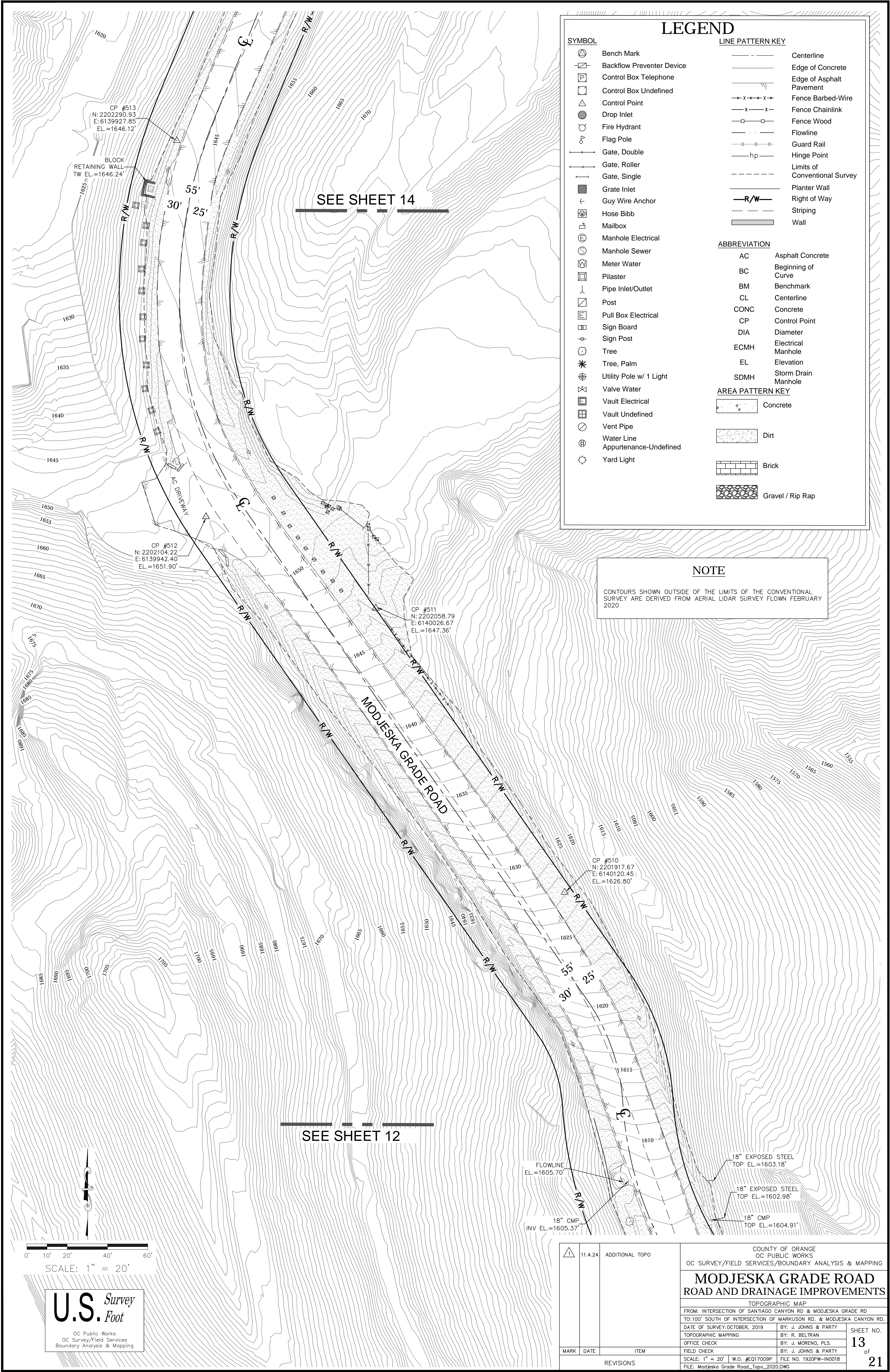
TOPOGRAPHIC MAP  
FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD  
TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.

DATE OF SURVEY: OCTOBER, 2019 BY: J. JOHNS & PARTY  
TOPOGRAPHIC MAPPING BY: R. BELTRAN

OFFICE CHECK BY: J. MORENO, PLS.  
FIELD CHECK BY: J. JOHNS & PARTY

SCALE: 1" = 20' W.O. #EQ17009P FILE NO. 1920PW-IN018  
FILE: Modjeska Grade Road\_Topo\_2020.DWG

SHEET NO.  
12  
of  
21



### LEGEND

#### SYMBOL

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

#### LINE PATTERN KEY

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

#### ABBREVIATION

AC	Asphalt Concrete
BC	Beginning of Curve
BM	Benchmark
CL	Centerline
CONC	Concrete
CP	Control Point
DIA	Diameter
ECMH	Electrical Manhole
EL	Elevation
SDMH	Storm Drain Manhole

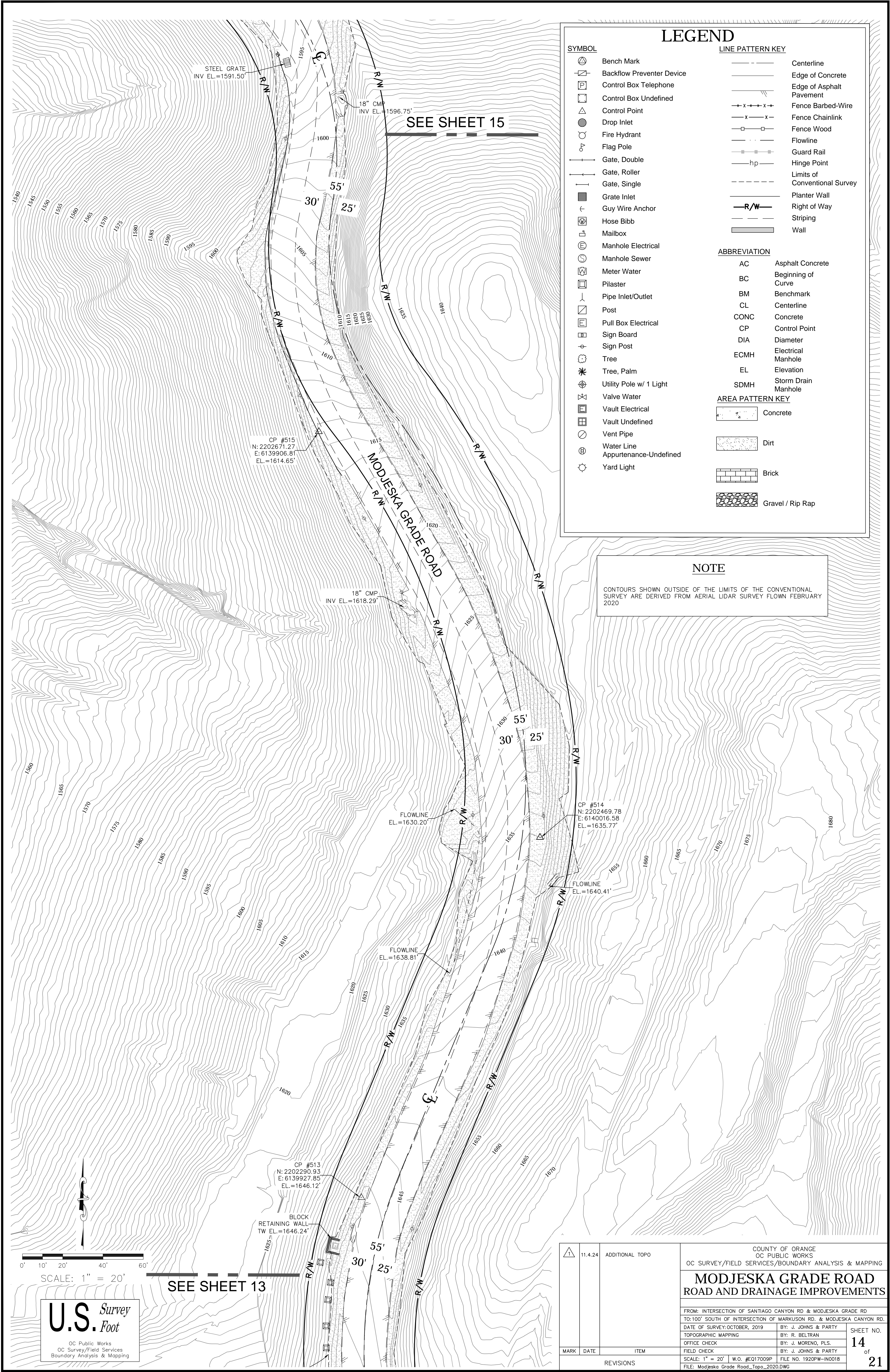
#### AREA PATTERN KEY

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

**NOTE**

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

<div><div>1</div></div>	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS			
			TOPOGRAPHIC MAP			
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.			
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY	
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN	
			OFFICE CHECK		BY: J. MORENO, PLS.	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 20'		W.O. #EQ17009P	
			FILE: Modjeska Grade Road_Topo_2020.DWG		FILE NO. 1920PW-IN018	
MARK	DATE	ITEM	REVISIONS		SHEET NO.  13 of 21	



LEGEND

SYMBOL		LINE PATTERN KEY	
	Bench Mark		Centerline
	Backflow Preventer Device		Edge of Concrete
	Control Box Telephone		Edge of Asphalt Pavement
	Control Box Undefined		Fence Barbed-Wire
	Control Point		Fence Chainlink
	Drop Inlet		Fence Wood
	Fire Hydrant		Flowline
	Flag Pole		Guard Rail
	Gate, Double		Hinge Point
	Gate, Roller		Limits of Conventional Survey
	Gate, Single		Planter Wall
	Grate Inlet		Right of Way
	Guy Wire Anchor		Striping
	Hose Bibb		Wall
	Mailbox		
	Manhole Electrical		
	Manhole Sewer		
	Meter Water		
	Pilaster		
	Pipe Inlet/Outlet		
	Post		
	Pull Box Electrical		
	Sign Board		
	Sign Post		
	Tree		
	Tree, Palm		
	Utility Pole w/ 1 Light		
	Valve Water		
	Vault Electrical		
	Vault Undefined		
	Vent Pipe		
	Water Line		
	Appurtenance-Undefined		
	Yard Light		

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
BM	Benchmark
CL	Centerline
CONC	Concrete
CP	Control Point
DIA	Diameter
ECMH	Electrical Manhole
EL	Elevation
SDMH	Storm Drain Manhole

AREA PATTERN KEY	
	Concrete
	Dirt
	Brick
	Gravel / Rip Rap

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS	
			OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS	
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD	
			TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.	
			DATE OF SURVEY: OCTOBER, 2019	BY: J. JOHNS & PARTY
			TOPOGRAPHIC MAPPING	BY: R. BELTRAN
			OFFICE CHECK	BY: J. MORENO, PLS.
			FIELD CHECK	BY: J. JOHNS & PARTY
			SCALE: 1" = 20'	W.O. #EQ17009P FILE NO. 1920PW-IN018
			FILE: Modjeska Grade Road_Topo_2020.DWG	

MARK	DATE	ITEM
REVISIONS		

SHEET NO.	14
of	21

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

LEGEND

SYMBOL

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

LINE PATTERN KEY

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

ABBREVIATION

- AC Asphalt Concrete
- BC Beginning of Curve
- BM Benchmark
- CL Centerline
- CONC Concrete
- CP Control Point
- DIA Diameter
- ECMH Electrical Manhole
- EL Elevation
- SDMH Storm Drain Manhole

AREA PATTERN KEY

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

SEE SHEET 16


SEE SHEET 14

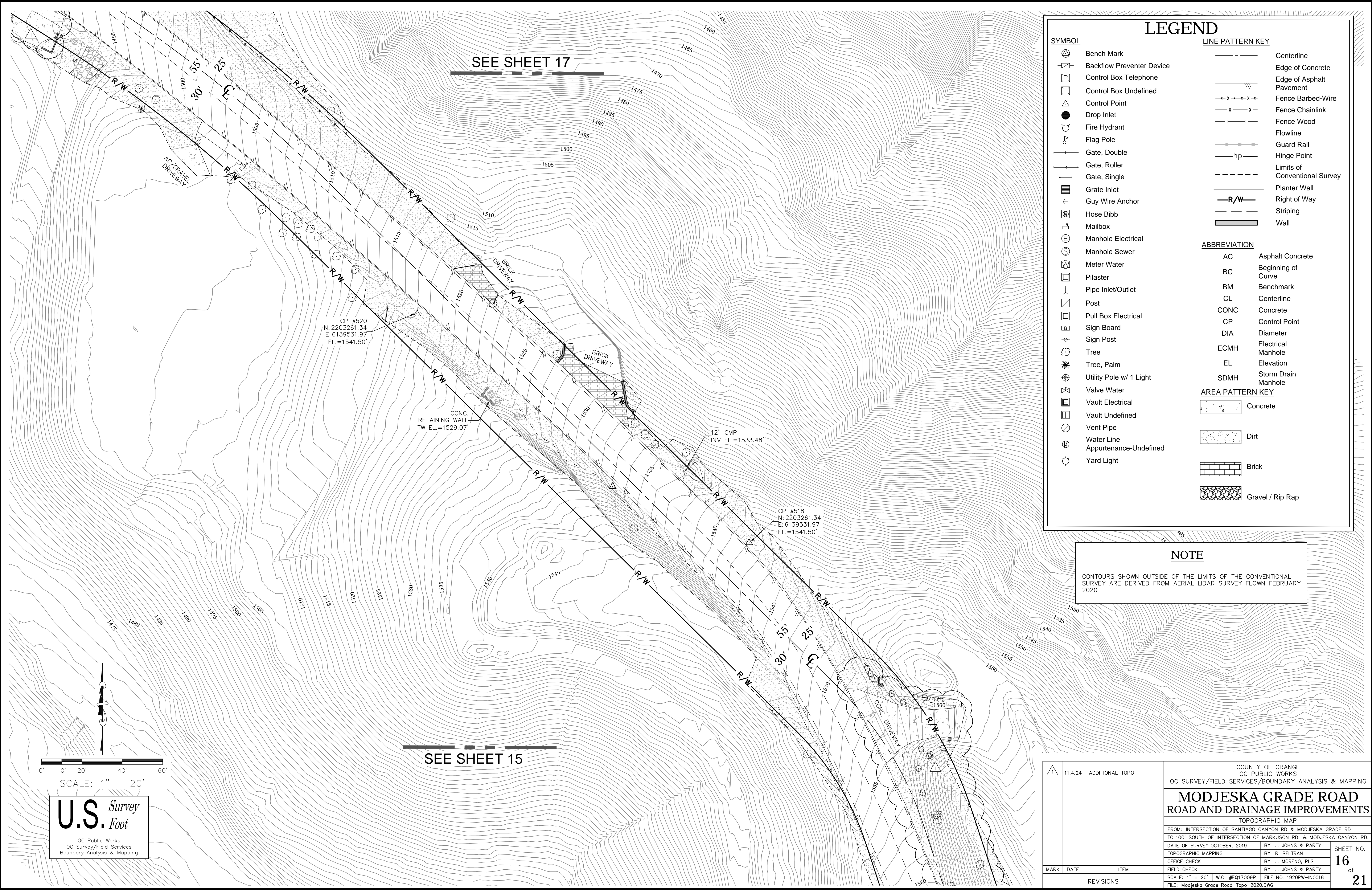
0' 10' 20' 40' 60'

SCALE: 1" = 20'

U.S. Survey Foot

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

<div></div>	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS				
			TOPOGRAPHIC MAP				
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.				
			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO.  15 of  21
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
			OFFICE CHECK		BY: J. MORENO, PLS.		
			FIELD CHECK		BY: J. JOHNS & PARTY		
			SCALE: 1" = 20'		W.O. #EQ17009P		
			FILE: Modjeska Grade Road_Topo_2020.DWG				
MARK	DATE	ITEM	REVISIONS				



LEGEND


SYMBOL		LINE PATTERN KEY	
	Bench Mark		Centerline
	Backflow Preventer Device		Edge of Concrete
	Control Box Telephone		Edge of Asphalt Pavement
	Control Box Undefined		Fence Barbed-Wire
	Control Point		Fence Chainlink
	Drop Inlet		Fence Wood
	Fire Hydrant		Flowline
	Flag Pole		Guard Rail
	Gate, Double		Hinge Point
	Gate, Roller		Limits of Conventional Survey
	Gate, Single		Planter Wall
	Grate Inlet		Right of Way
	Guy Wire Anchor		Striping
	Hose Bibb		Wall
	Mailbox		
	Manhole Electrical		
	Manhole Sewer		
	Meter Water		
	Pilaster		
	Pipe Inlet/Outlet		
	Post		
	Pull Box Electrical		
	Sign Board		
	Sign Post		
	Tree		
	Tree, Palm		
	Utility Pole w/ 1 Light		
	Valve Water		
	Vault Electrical		
	Vault Undefined		
	Vent Pipe		
	Water Line		
	Appurtenance-Undefined		
	Yard Light		

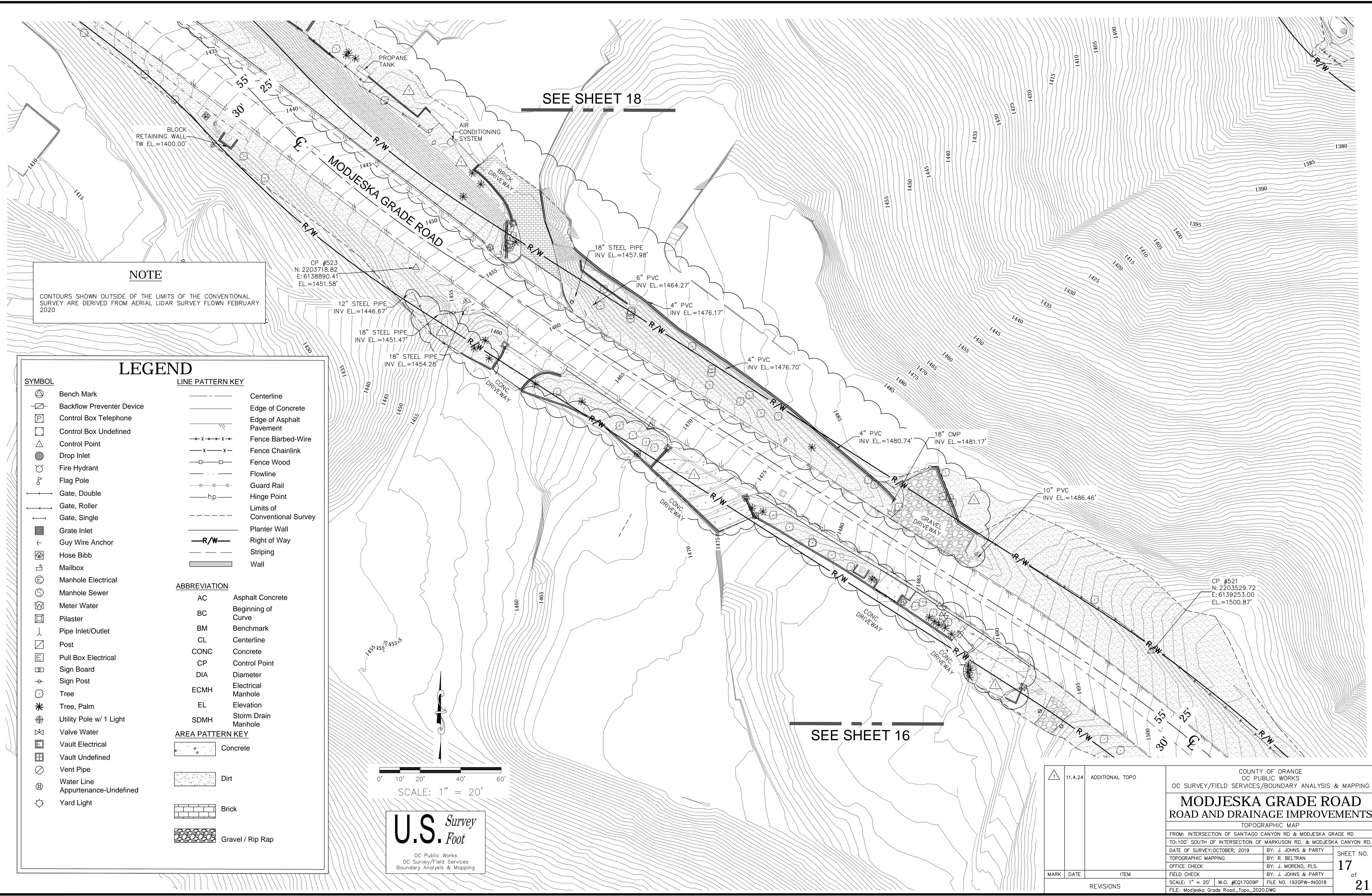
ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
BM	Benchmark
CL	Centerline
CONC	Concrete
CP	Control Point
DIA	Diameter
ECMH	Electrical Manhole
EL	Elevation
SDMH	Storm Drain Manhole

AREA PATTERN KEY	
	Concrete
	Dirt
	Brick
	Gravel / Rip Rap

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS					
			TOPOGRAPHIC MAP					
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.					
MARK	DATE	ITEM	DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO.  <b>16</b> of  <b>21</b>	
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN			
			OFFICE CHECK		BY: J. MORENO, PLS.			
			FIELD CHECK		BY: J. JOHNS & PARTY			
REVISIONS			SCALE: 1" = 20'		W.O. #E017009P		FILE NO. 1920PW-IN0018	
			FILE: Modjeska_Grade_Road_Topo_2020.DWG					



NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

LEGEND

SYMBOL		LINE PATTERN KEY	
	Bench Mark		Centerline
	Backflow Preventer Device		Edge of Concrete
	Control Box Telephone		Edge of Asphalt Pavement
	Control Box Undefined		Fence Barbed-Wire
	Control Point		Fence Chainlink
	Drop Inlet		Fence Wood
	Fire Hydrant		Flowline
	Flag Pole		Guard Rail
	Gate, Double		Hinge Point
	Gate, Roller		Limits of Conventional Survey
	Gate, Single		Planter Wall
	Grate Inlet		Right of Way
	Guy Wire Anchor		Striping
	Hose Bibb		Wall
	Mailbox		
	Manhole Electrical		
	Manhole Sewer		
	Meter Water		
	Pilaster		
	Pipe Inlet/Outlet		
	Post		
	Pull Box Electrical		
	Sign Board		
	Sign Post		
	Tree		
	Tree, Palm		
	Utility Pole w/ 1 Light		
	Valve Water		
	Vault Electrical		
	Vault Undefined		
	Vent Pipe		
	Water Line		
	Appurtenance-Undefined		
	Yard Light		

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
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SDMH	Storm Drain Manhole

AREA PATTERN KEY	
	Concrete
	Dirt
	Brick
	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

MODJESKA GRADE ROAD

ROAD AND DRAINAGE IMPROVEMENTS

TOPOGRAPHIC MAP

FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD

TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.

DATE OF SURVEY:OCTOBER, 2019

BY: J. JOHNS & PARTY

TOPOGRAPHIC MAPPING

BY: R. BELTRAN

OFFICE CHECK

BY: J. MORENO, PLS.

FIELD CHECK

BY: J. JOHNS & PARTY

SCALE: 1" = 20'     W.O. #017009P

FILE NO. 1920PW-IN018

17

of

21

FILE: Modjeska\_Grade\_Road\_Topo\_2020.DWG

LEGEND

**SYMBOL**

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
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- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

**LINE PATTERN KEY**

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

**ABBREVIATION**

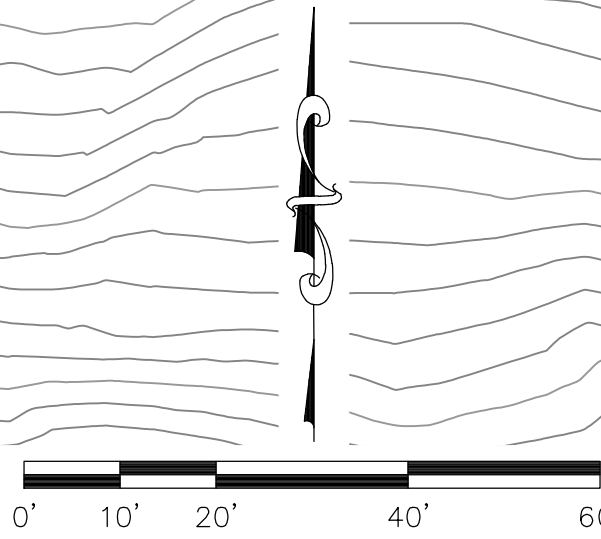
- AC Asphalt Concrete
- BC Beginning of Curve
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- Gravel / Rip Rap

NOTE

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020



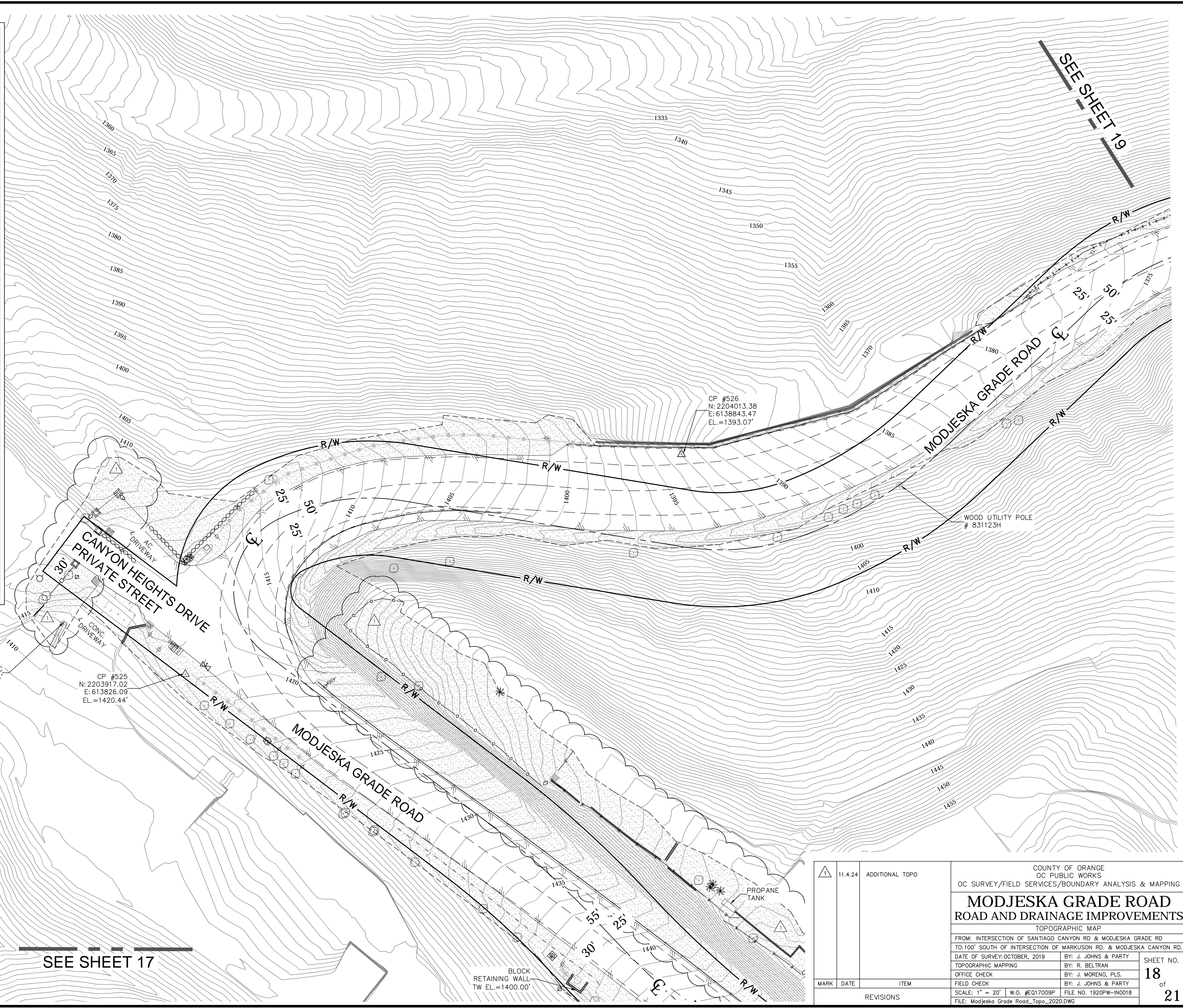
SCALE: 1" = 20'


U.S. Survey Foot

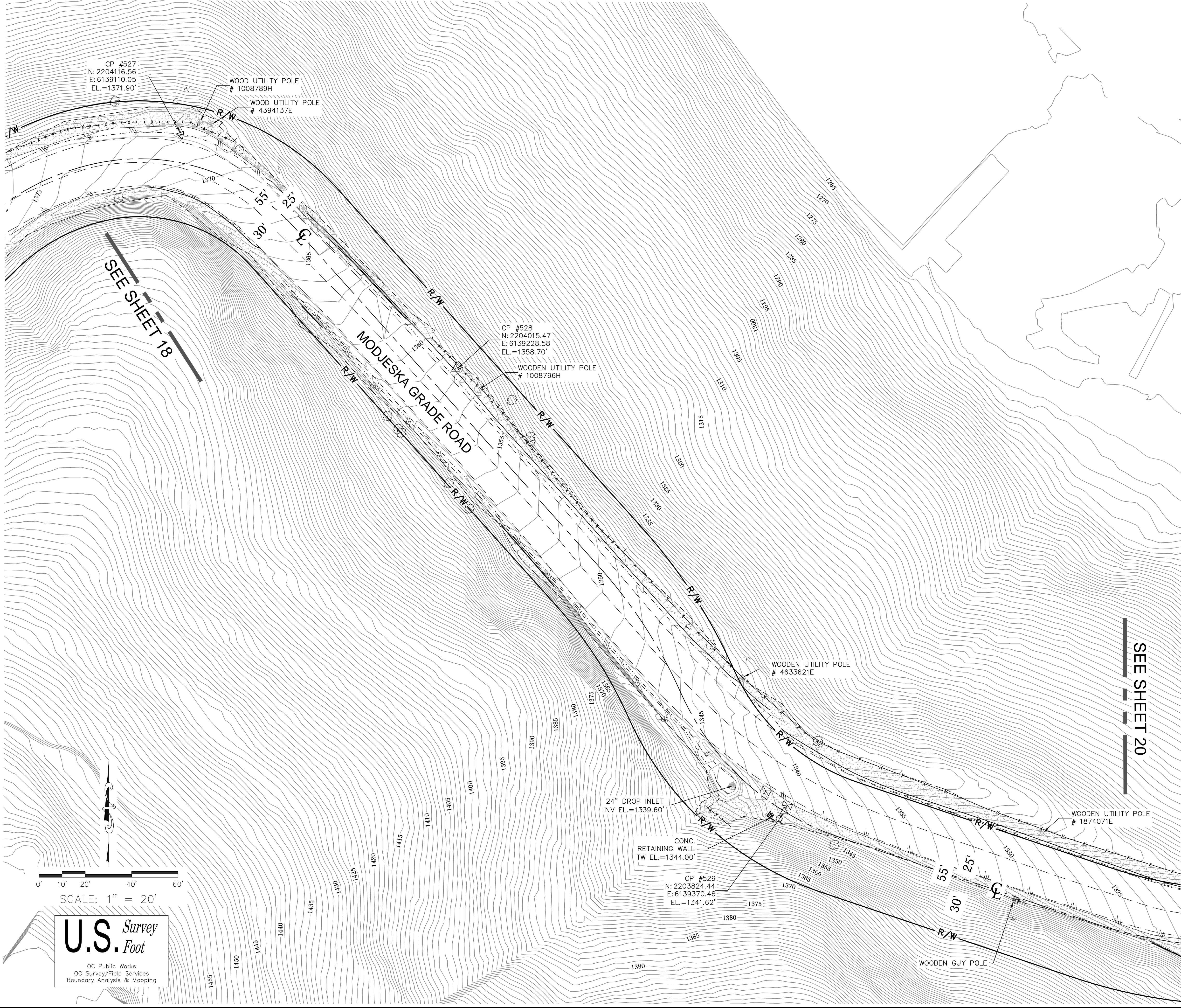
OC Public Works  
OC Survey/Field Services  
Boundary Analysis & Mapping

SEE SHEET 17

SEE SHEET 19



	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING					
			MODJESKA GRADE ROAD ROAD AND DRAINAGE IMPROVEMENTS					
			TOPOGRAPHIC MAP					
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.					
	MARK	DATE	ITEM	DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO. <b>18</b> of <b>21</b>
				TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
				OFFICE CHECK		BY: J. MORENO, PLS.		
				FIELD CHECK		BY: J. JOHNS & PARTY		
				SCALE: 1" = 20'		W.O. #E017009P		
				FILE: Modjeska_Grade_Road_Topo_2020.DWG		FILE NO. 1920PW-IN0018		
REVISIONS								



**SYMBOL**

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line
- Appurtenance-Undefined
- Yard Light

**LINE PATTERN KEY**

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
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- Planter Wall
- Right of Way
- Striping
- Wall

**ABBREVIATION**

AC	Asphalt Concrete
BC	Beginning of Curve
BM	Benchmark
CL	Centerline
CONC	Concrete
CP	Control Point
DIA	Diameter
ECMH	Electrical Manhole
EL	Elevation
SDMH	Storm Drain Manhole

**AREA PATTERN KEY**

- Concrete
- Dirt
- Brick
- Gravel / Rip Rap

**NOTE**


CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

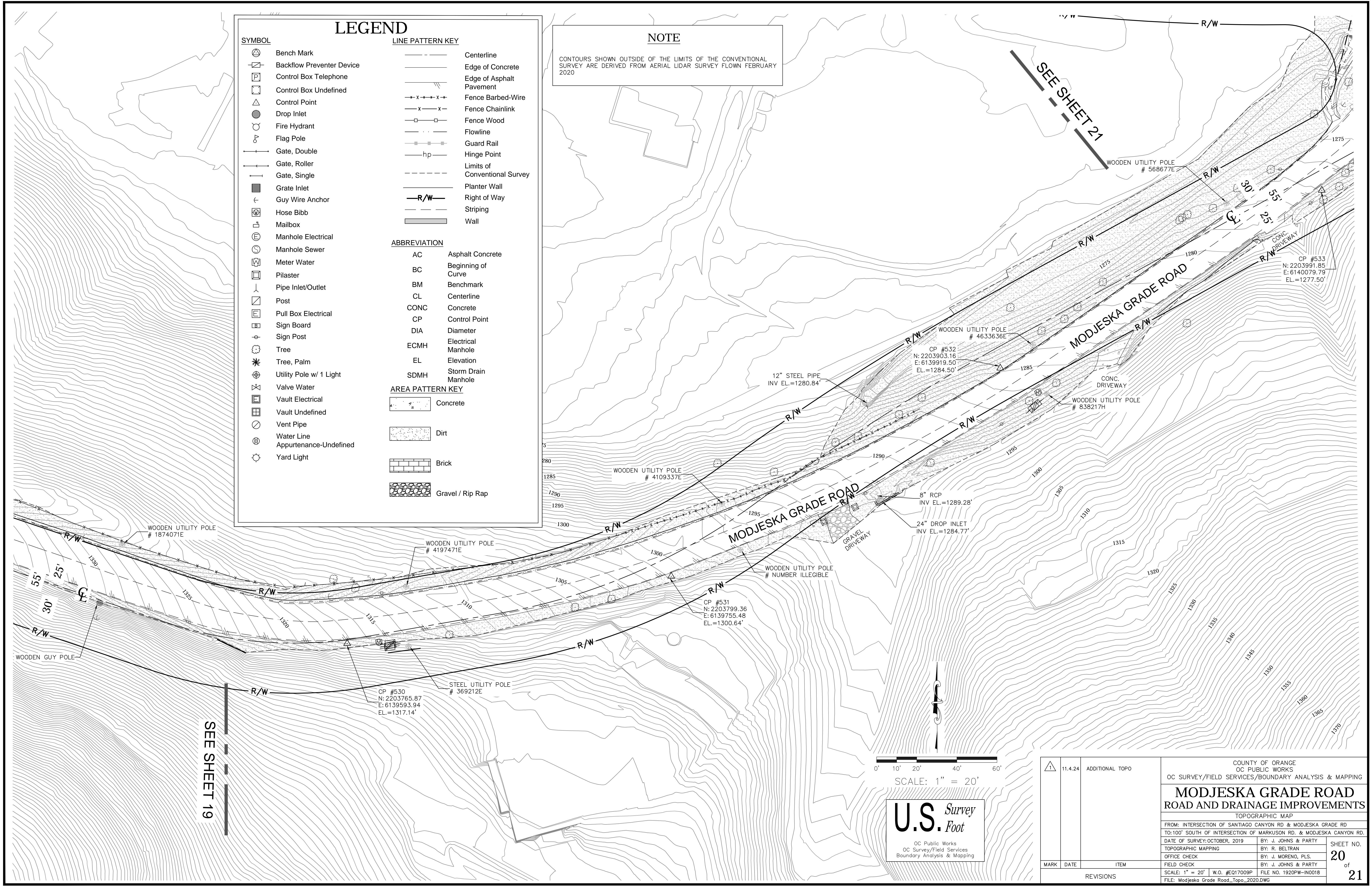


SCALE: 1" = 20'

**U.S. Survey Foot**

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

	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			<b>MODJESKA GRADE ROAD</b>				
			<b>ROAD AND DRAINAGE IMPROVEMENTS</b>				
			TOPOGRAPHIC MAP				
			FROM: INTERSECTION OF SANTIAGO CANYON RD & MODJESKA GRADE RD TO: 100' SOUTH OF INTERSECTION OF MARKUSON RD. & MODJESKA CANYON RD.				
MARK	DATE	ITEM	DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO. <b>19</b> of <b>21</b>
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
			OFFICE CHECK		BY: J. MORENO, PLS.		
			FIELD CHECK		BY: J. JOHNS & PARTY		
			SCALE: 1" = 20'		W.O. #E017009P		
REVISIONS			FILE: Modjeska_Grade_Road_Topo_2020.DWG				



LEGEND

SYMBOL		LINE PATTERN KEY	
	Bench Mark		Centerline
	Backflow Preventer Device		Edge of Concrete
	Control Box Telephone		Edge of Asphalt Pavement
	Control Box Undefined		Fence Barbed-Wire
	Control Point		Fence Chainlink
	Drop Inlet		Fence Wood
	Fire Hydrant		Flowline
	Flag Pole		Guard Rail
	Gate, Double		Hinge Point
	Gate, Roller		Limits of Conventional Survey
	Gate, Single		Planter Wall
	Grate Inlet		Right of Way
	Guy Wire Anchor		Striping
	Hose Bibb		Wall
	Mailbox		
	Manhole Electrical		
	Manhole Sewer		
	Meter Water		
	Pilaster		
	Pipe Inlet/Outlet		
	Post		
	Pull Box Electrical		
	Sign Board		
	Sign Post		
	Tree		
	Tree, Palm		
	Utility Pole w/ 1 Light		
	Valve Water		
	Vault Electrical		
	Vault Undefined		
	Vent Pipe		
	Water Line		
	Appurtenance-Undefined		
	Yard Light		

ABBREVIATION	
AC	Asphalt Concrete
BC	Beginning of Curve
BM	Benchmark
CL	Centerline
CONC	Concrete
CP	Control Point
DIA	Diameter
ECMH	Electrical Manhole
EL	Elevation
SDMH	Storm Drain Manhole

AREA PATTERN KEY	
	Concrete
	Dirt
	Brick
	Gravel / Rip Rap

NOTE


CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

SEE SHEET 21

SEE SHEET 19

U.S. Survey  
Foot

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

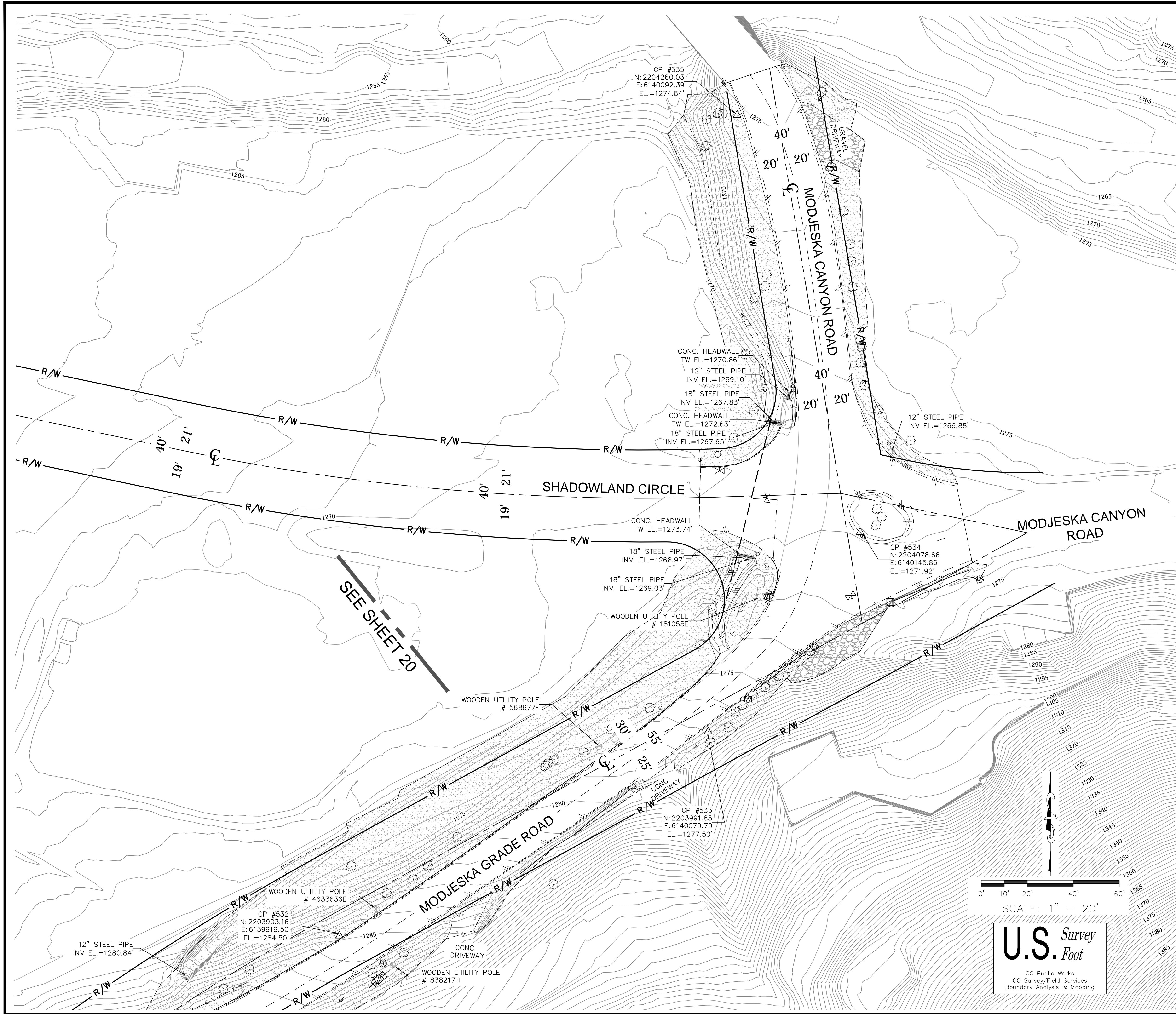
	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
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			TOPOGRAPHIC MAPPING		BY: R. BELTRAN	
MARK	DATE	ITEM	OFFICE CHECK		BY: J. MORENO, PLS.	
			FIELD CHECK		BY: J. JOHNS & PARTY	
			SCALE: 1" = 20'		W.O. #EQ17009P	
			FILE: Modjeska Grade Road_Topo_2020.DWG		FILE NO. 1920PW-IN0018	
REVISIONS						

SHEET NO.

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### LEGEND

**SYMBOL**

- Bench Mark
- Backflow Preventer Device
- Control Box Telephone
- Control Box Undefined
- Control Point
- Drop Inlet
- Fire Hydrant
- Flag Pole
- Gate, Double
- Gate, Roller
- Gate, Single
- Grate Inlet
- Guy Wire Anchor
- Hose Bibb
- Mailbox
- Manhole Electrical
- Manhole Sewer
- Meter Water
- Pilaster
- Pipe Inlet/Outlet
- Post
- Pull Box Electrical
- Sign Board
- Sign Post
- Tree
- Tree, Palm
- Utility Pole w/ 1 Light
- Valve Water
- Vault Electrical
- Vault Undefined
- Vent Pipe
- Water Line Appurtenance-Undefined
- Yard Light

**LINE PATTERN KEY**

- Centerline
- Edge of Concrete
- Edge of Asphalt Pavement
- Fence Barbed-Wire
- Fence Chainlink
- Fence Wood
- Flowline
- Guard Rail
- Hinge Point
- Limits of Conventional Survey
- Planter Wall
- Right of Way
- Striping
- Wall

**ABBREVIATION**

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**NOTE**

CONTOURS SHOWN OUTSIDE OF THE LIMITS OF THE CONVENTIONAL SURVEY ARE DERIVED FROM AERIAL LIDAR SURVEY FLOWN FEBRUARY 2020

SCALE: 1" = 20'

**U.S. Survey**

Foot

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

<div><div>1</div></div>	11.4.24	ADDITIONAL TOPO	COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
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			DATE OF SURVEY: OCTOBER, 2019		BY: J. JOHNS & PARTY		SHEET NO. <div>21of21</div>
			TOPOGRAPHIC MAPPING		BY: R. BELTRAN		
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