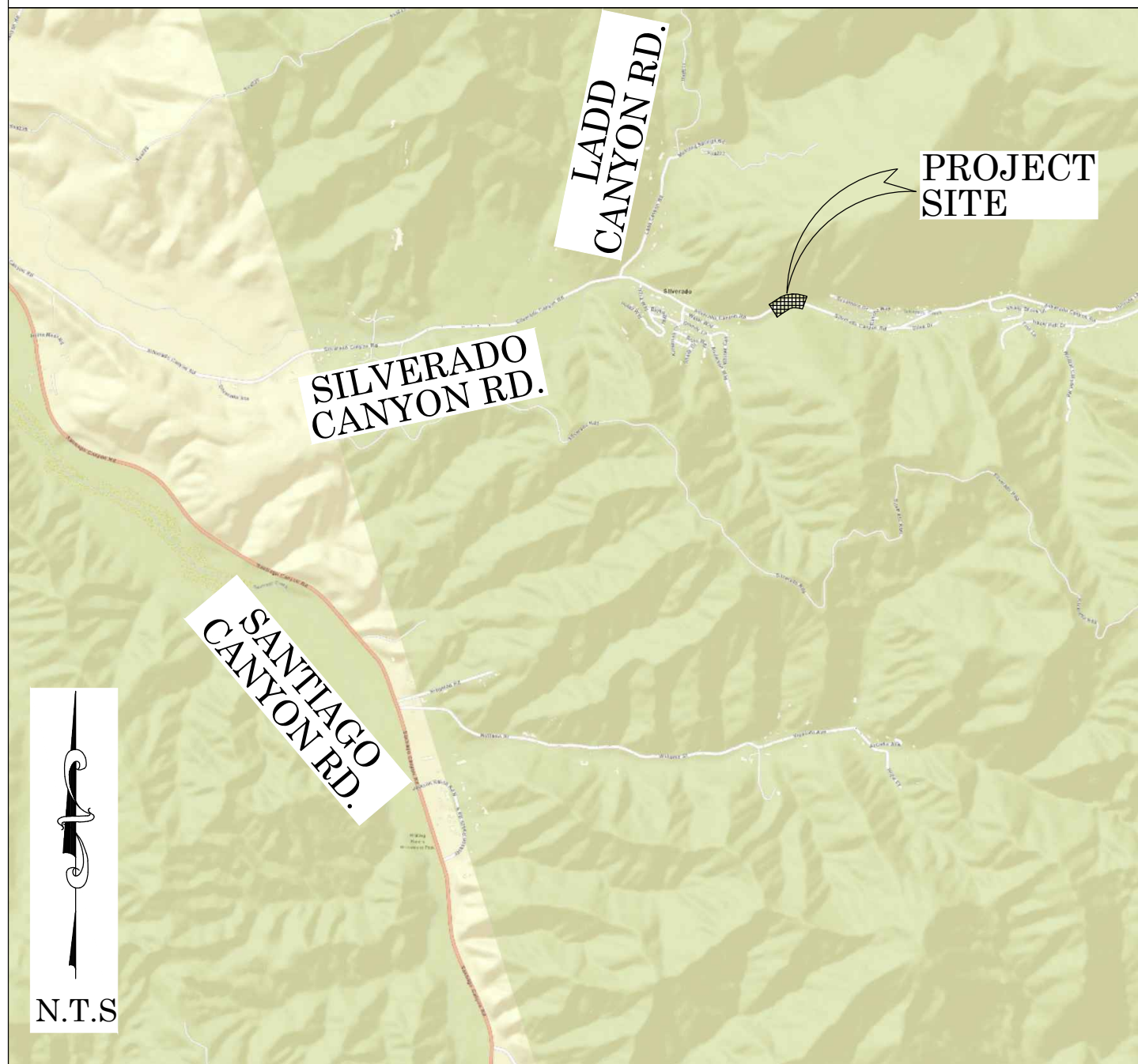




OC PUBLIC WORKS DEPARTMENT
KHALID BAZMI, PE, INTERIM DIRECTOR
KEVIN HILLS, COUNTY SURVEYOR
SILVERADO CANYON ROAD
SLOPE EROSION PROJECT APN 105-101-27



LOCATION MAP



CONTROL PT #300
SET REBAR & 1-1/2
INCH ALUMINUM CAP
STAMPED 'OCS TCP'
DN. 0.10' IN DIRT
N: 2218019.02'
E: 6140869.43'

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 7 DAY OF MAY, 2020.

ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE
PROFESSIONAL LAND SURVEYOR'S ACT; THIS 7 DAY OF
MAY, 2020.

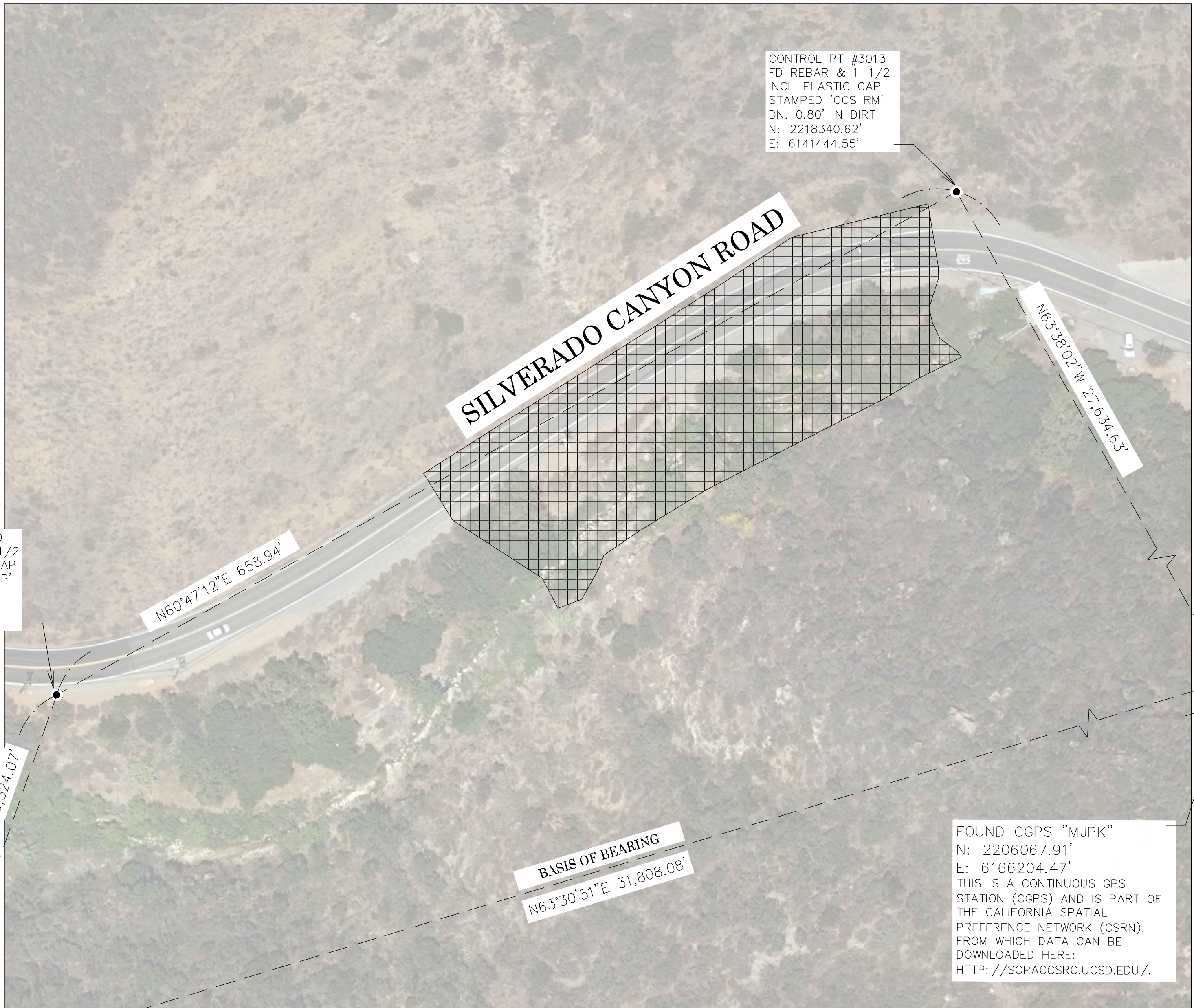
WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



U.S. Survey
Foot

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

FOUND CGPS "WHYT"
N: 2191882.25'
E: 6137734.82'
THIS IS A CONTINUOUS GPS
STATION (CGPS) AND IS PART OF
THE CALIFORNIA SPATIAL
PREFERENCE NETWORK (CSRN),
FROM WHICH DATA CAN BE
DOWNLOADED HERE:
HTTP://SOPACCSRC.UCSD.EDU/.



CONTROL PT #3013
FD REBAR & 1-1/2
INCH PLASTIC CAP
STAMPED 'OCS RM'
DN. 0.80' IN DIRT
N: 2218340.62'
E: 6141444.55'

FOUND CGPS "MJPK"
N: 2206067.91'
E: 6166204.47'
THIS IS A CONTINUOUS GPS
STATION (CGPS) AND IS PART OF
THE CALIFORNIA SPATIAL
PREFERENCE 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 COPS (MJPK) AND (WHYT) BEING NORTH
63°30'51" 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 1.00007456
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.
COMBINATION FACTOR WAS HELD AT: #3013
N: 2218340.62', E: 6141444.55', ELEVATION= 1250.28'

VERTICAL DATUM

O.C.S. BM. 3V-4-80 ELEV. = 1181.444' YEAR LEVELED: 1992
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)
DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED
"3V-4-80", SET IN THE EASTERLY END OF THE NORTHERLY WHEEL RAIL FOR
BRIDGE #5V-8. MONUMENT IS LOCATED ALONG THE NORTHERLY SIDE OF
SILVERADO CANYON ROAD, 2.0 MILES EASTERLY OF THE CENTERLINE OF
BLACKSTAR CANYON ROAD AND 16.5 FT. NORTHERLY OF THE CENTERLINE OF
SILVERADO CANYON ROAD. MONUMENT IS SET LEVEL WITH THE BRIDGE DECK.

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 AND ARE PENDING RECEIPT OF TITLE REPORT.

SHEET INDEX

SHEET	NO.	DESCRIPTION
1	1	TITLE SHEET
2	2	BOUNDARY
3	3	TOPOGRAPHIC MAP
4-5	4-5	SECTIONS

PURPOSE OF SURVEY

TO DETERMINE ERODED SLOPE ADJACENT TO SILVERADO CANYON ROAD, IN AN
EFFORT TO RE-ESTABLISH ROADWAY'S SHOULDERS, SLOPES, HINGE POINTS,
TOES FOR REHABILITATION OF THE ROADWAY EMBANKMENT

TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
		SILVERADO CANYON ROAD SLOPE EROSION PROJECT APN 105-101-27				
		TITLE SHEET				
		PROJECT LIMITS: +/- 1300' E'LY OF KITTERMAN DR TO +/- 1200' NW'LY OF RANCHO WAY				
		DATE OF SURVEY: 03/19/2020		BY: R. MACIAS & PARTY		SHEET NO. 1 of 5
		TOPOGRAPHIC MAPPING		BY: I. ISLAS		
		OFFICE CHECK		BY: E. MEDINA, PLS		
		FIELD CHECK		BY: R. MACIAS, PLS		
		SCALE: N.T.S.		W.O. #E19300	FILE #1920PW-OPD011	
		FILE: SILVERADO_SLOPE_EROSION_TOPO_2020.DWG				
MARK	DATE	ITEM				
REVISIONS						

ESTABLISHMENT NOTES

- (A) ESTABLISHED A PORTION OF THE CENTERLINE OF SILVERADO CANYON RD. BY HOLDING MONUMENT [1] & [2] PER (R2).
- (B) SEARCHED FOUND NOTHING, ESTABLISHED BY LEAST SQUARES ADJUSTMENT BETWEEN MONUMENTS [2] & [3], AND ACCEPTED AS P.I.27 PER (R4) & (R5).
- (C) ESTABLISHED A PORTION OF THE CENTERLINE OF SILVERADO CANYON RD. BY HOLDING MONUMENT [2] AND ESTABLISHMENT NOTE (B) PER (R4).
- (D) ESTABLISHED A PORTION OF THE CENTERLINE OF SILVERADO CANYON RD. BY HOLDING THE RECORD RADIUS 150.00' AND TANGENCY FROM ESTABLISHMENT NOTES (A) & (C), PER (R4).
- (E) ESTABLISHED A PORTION OF THE CENTERLINE OF SILVERADO CANYON RD. BY HOLDING MONUMENT [3] AND ESTABLISHMENT NOTE (B) PER (R4).
- (F) ESTABLISHED A PORTION OF THE CENTERLINE OF SILVERADO CANYON RD. BY HOLDING THE RECORD RADIUS 115.00' AND TANGENCY FROM ESTABLISHMENT NOTES (C) & (E), PER (R4).
- (G) ESTABLISHED A PORTION OF THE N'LY RIGHT OF WAY OF SILVERADO CANYON RD. PARALLEL WITH, 20' RADIAL AND PERPENDICULAR FROM THE ESTABLISHED CENTERLINE OF SILVERADO CANYON RD. PER (R4) & (R5).
- (H) ESTABLISHED A PORTION OF THE S'LY RIGHT OF WAY OF SILVERADO CANYON RD. PARALLEL WITH, 20' RADIAL AND PERPENDICULAR FROM THE ESTABLISHED CENTERLINE OF SILVERADO CANYON RD. PER (R4) & (R5).
- (J) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE WESTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF SILVERADO CANYON RD. OF ESTABLISHMENT NOTE (A) PER (R4).
- (K) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE EASTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF SILVERADO CANYON RD. OF ESTABLISHMENT NOTE (D) PER (R4).
- (L) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE WESTERLY TERMINUS OF ESTABLISHMENT NOTE (E) AND THE CENTERLINE OF SILVERADO CANYON RD. OF ESTABLISHMENT NOTE (D) PER (R4).
- (M) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE EASTERLY TERMINUS OF ESTABLISHMENT NOTE (F) AND THE CENTERLINE OF SILVERADO CANYON RD. OF ESTABLISHMENT NOTE (E) PER (R4).

MONUMENT NOTES

- [1] FOUND CHISELED "4" IN ROCK, FLUSH WITH DIRT. ACCEPTED AS P.I. 25 ON SILVERADO CANYON RD. PER (R1).
- [2] FOUND REBAR & 1-1/2 INCH PLASTIC CAP STAMPED 'OCS RM' DOWN 0.80' IN DIRT. ACCEPTED AS P.I. 26 ON SILVERADO CANYON RD. PER (R2).
- [3] FOUND 3/4 INCH IRON PIPE & WOOD PLUG WITH NAIL DOWN 3.0' IN DIRT. ACCEPTED AS P.I. 28 ON SILVERADO CANYON RD. PER (R3).

REFERENCES

- (R1) = A/5-7, 6&8 PAGES 1-3
- (R2) = A/5-7&8 PAGES 253-258
- (R3) = CSTB 100/60
- (R4) = TR 997, MM 33/22
- (R5) = OR 8198 9798/937-938

BASIS OF BEARINGS

THE BASIS OF BEARINGS SHOWN HEREON ARE BASED ON THE LOCALLY DETERMINED LINE BETWEEN C.G.P.S. (CONTINUOUS GLOBAL POSITIONING STATIONS) "MJPK" AND "WHYT" HAVING A BEARING OF NORTH 71°36'55" WEST.

HORIZONTAL DATUM

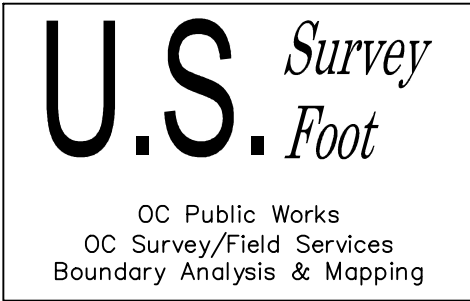
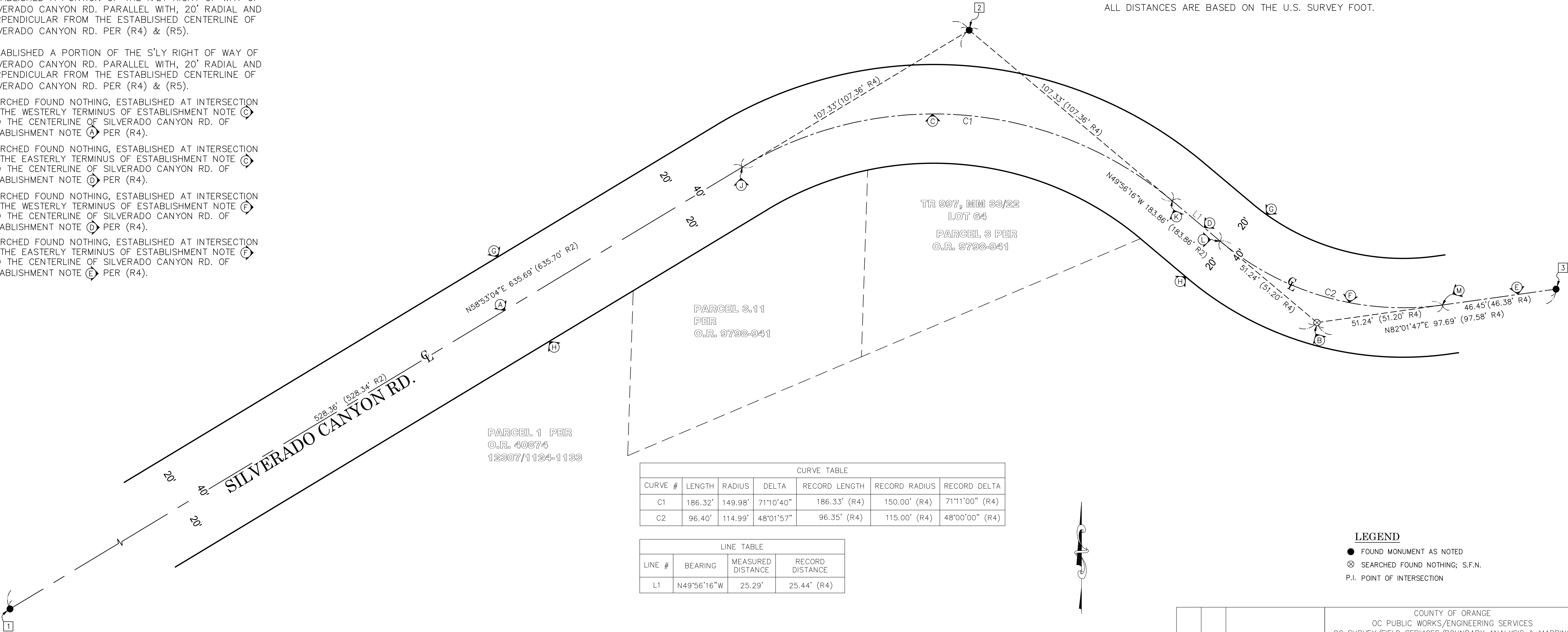
COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.

ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY A GRID DISTANCE BY 1.00007456.

COMBINATION FACTOR WAS HELD AT: #3013, AS SHOWN ON SHEET 1. N: 2218340.62', E:6141444.55', ELEVATION= 1250.28'

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

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



NOTES

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SILVERADO CANYON RD. CENTERLINE ESTABLISHMENT		
			BOUNDARY ANALYSIS		
			PROJECT LIMITS: A 400' PROTION OF SILVERADO CYN RD E'LY OF DITTERMAN DR.		
			DATE OF SURVEY:03/27/2020	BY:R. MACIAS & PARTY	SHEET NO. 2 of 5
			TOPOGRAPHIC MAPPING	BY:S.STROM	
			OFFICE CHECK	BY:E. MEDINA, PLS	
			FIELD CHECK	BY:R. MACIAS, PLS	
			SCALE:1" = 20'	W.O. #ER19300	
			FILE: SILVERADO_ SLOPE EROSION_BNDRY_2020.DWG	FILE #1920PW-OP0011	
MARK	DATE	ITEM	REVISIONS		

SYMBOL

Control Point

Fire Hydrant

Guy Wire Anchor

Light Pole, Single

Pipe Inlet/Outlet

Post

Sign Post

Utility Pole

Valve Water

Vent Pipe

LINE PATTERN KEY

Centerline

Edge of Asphalt

Pavement

Fence Wood

Flowline

Hinge Point

Right of Way

Striping

Toe of Slope

ABBREVIATION

CP Control Point

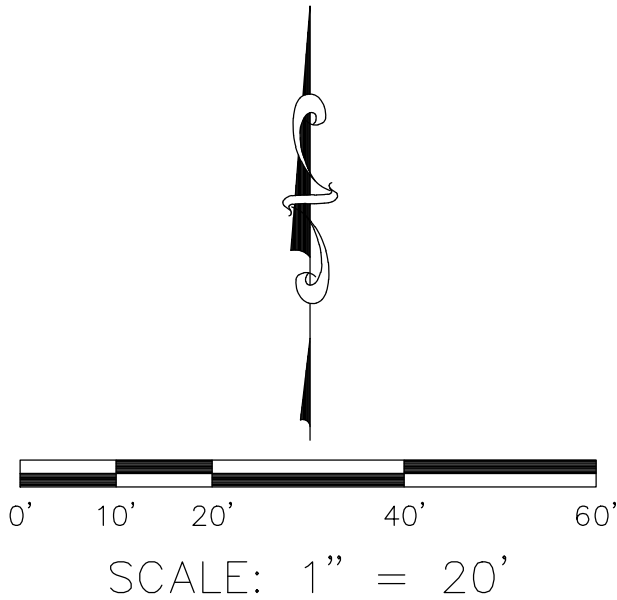
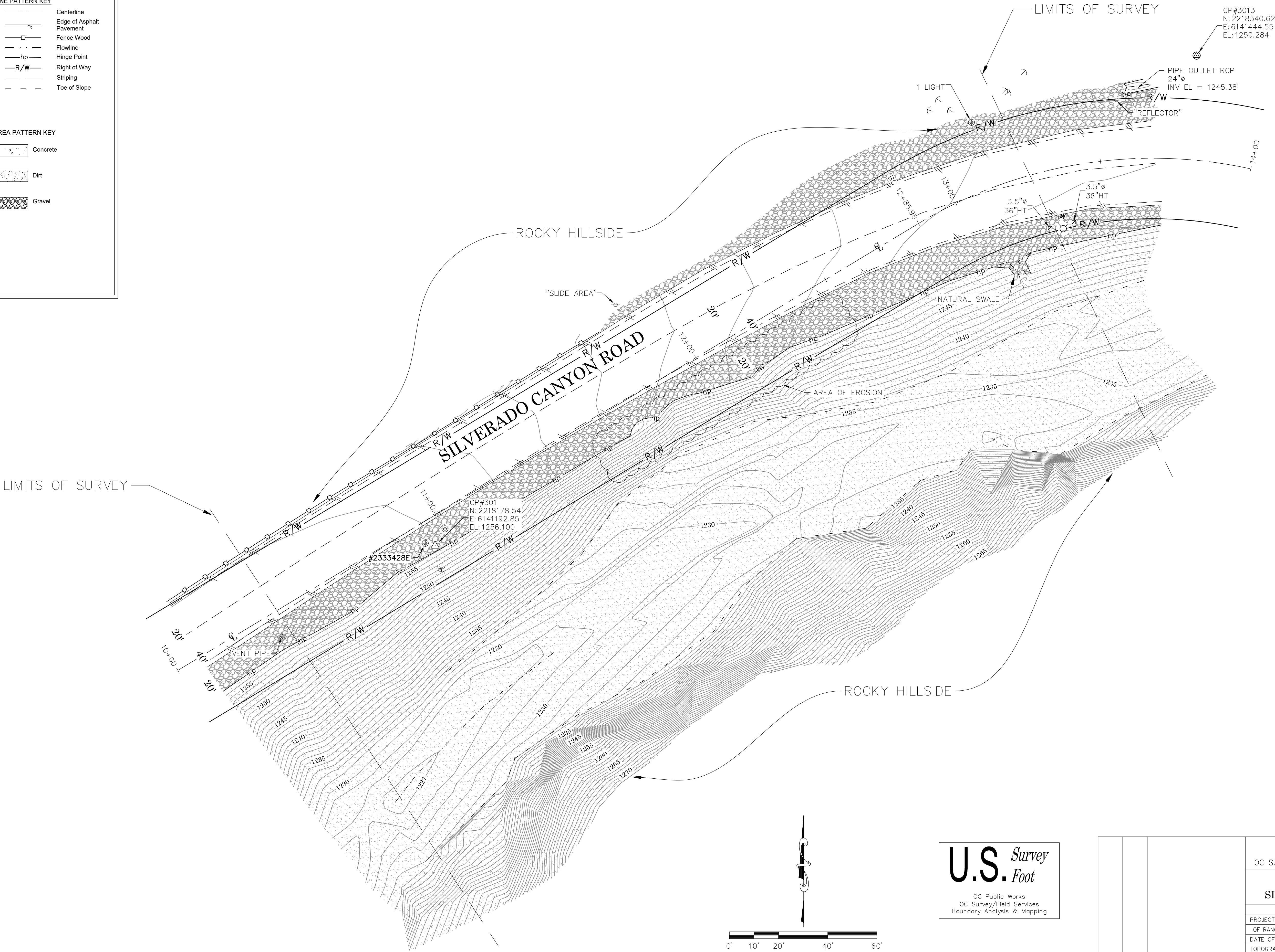
EL Elevation

AREA PATTERN KEY

Concrete

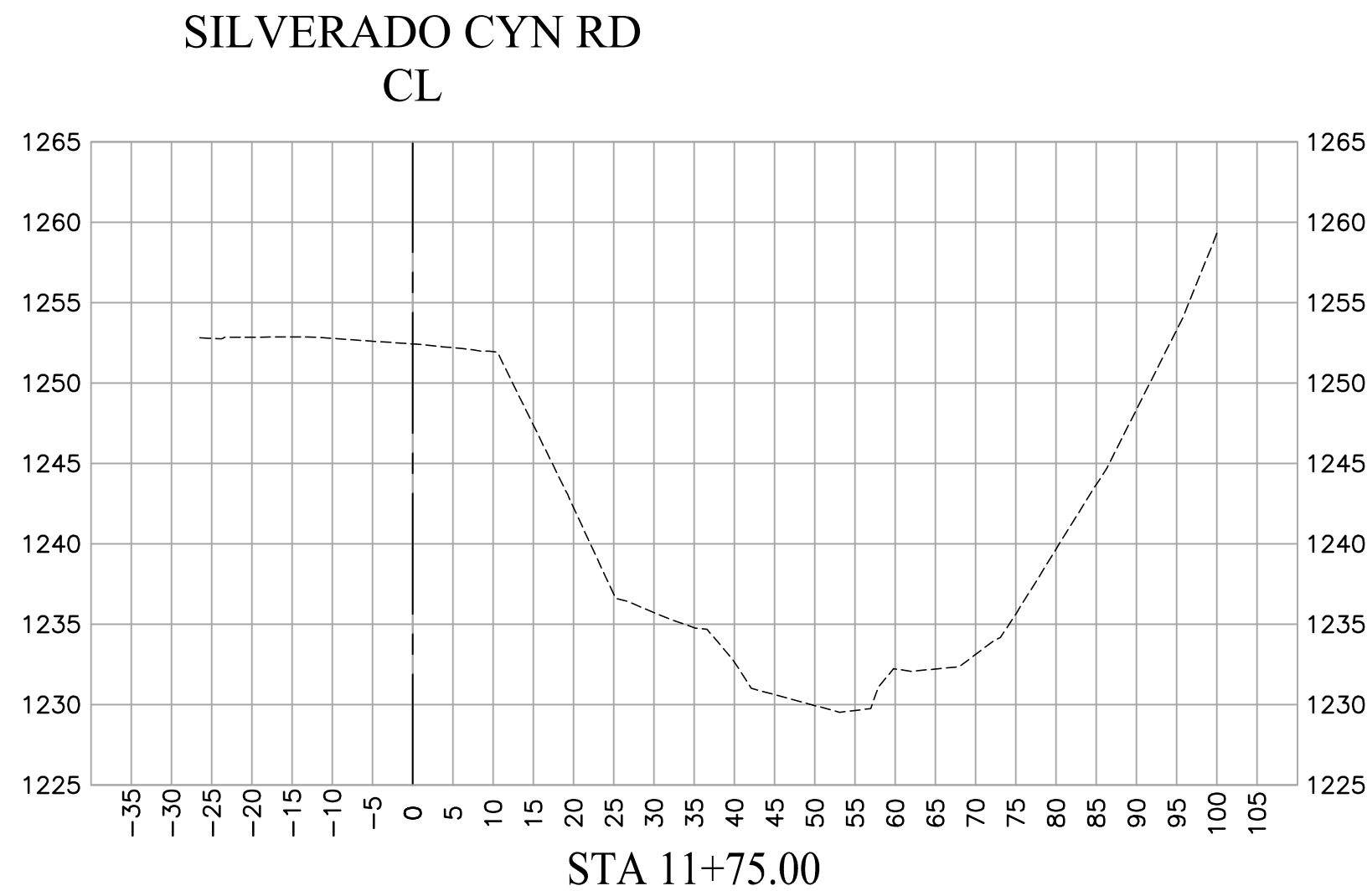
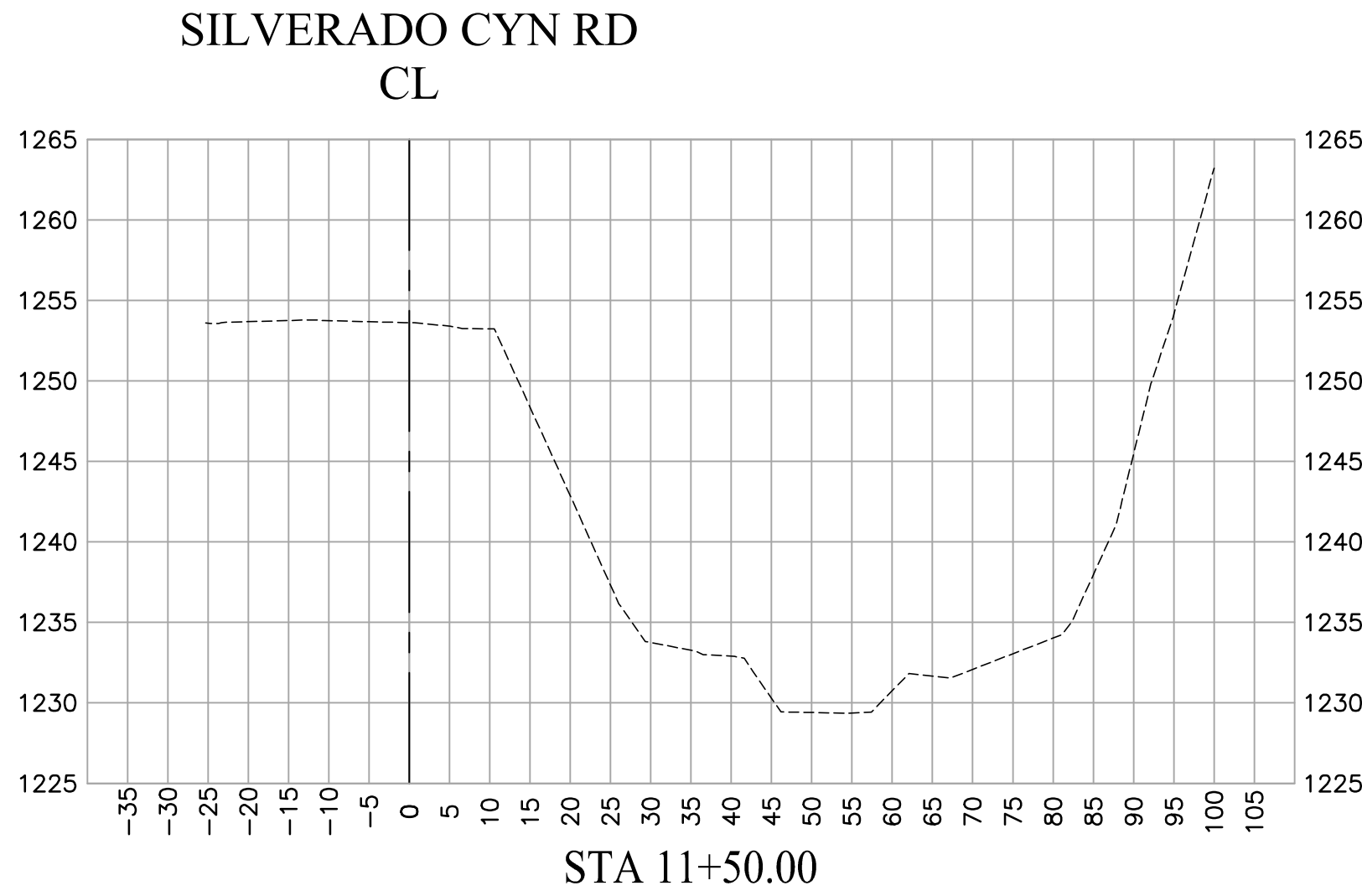
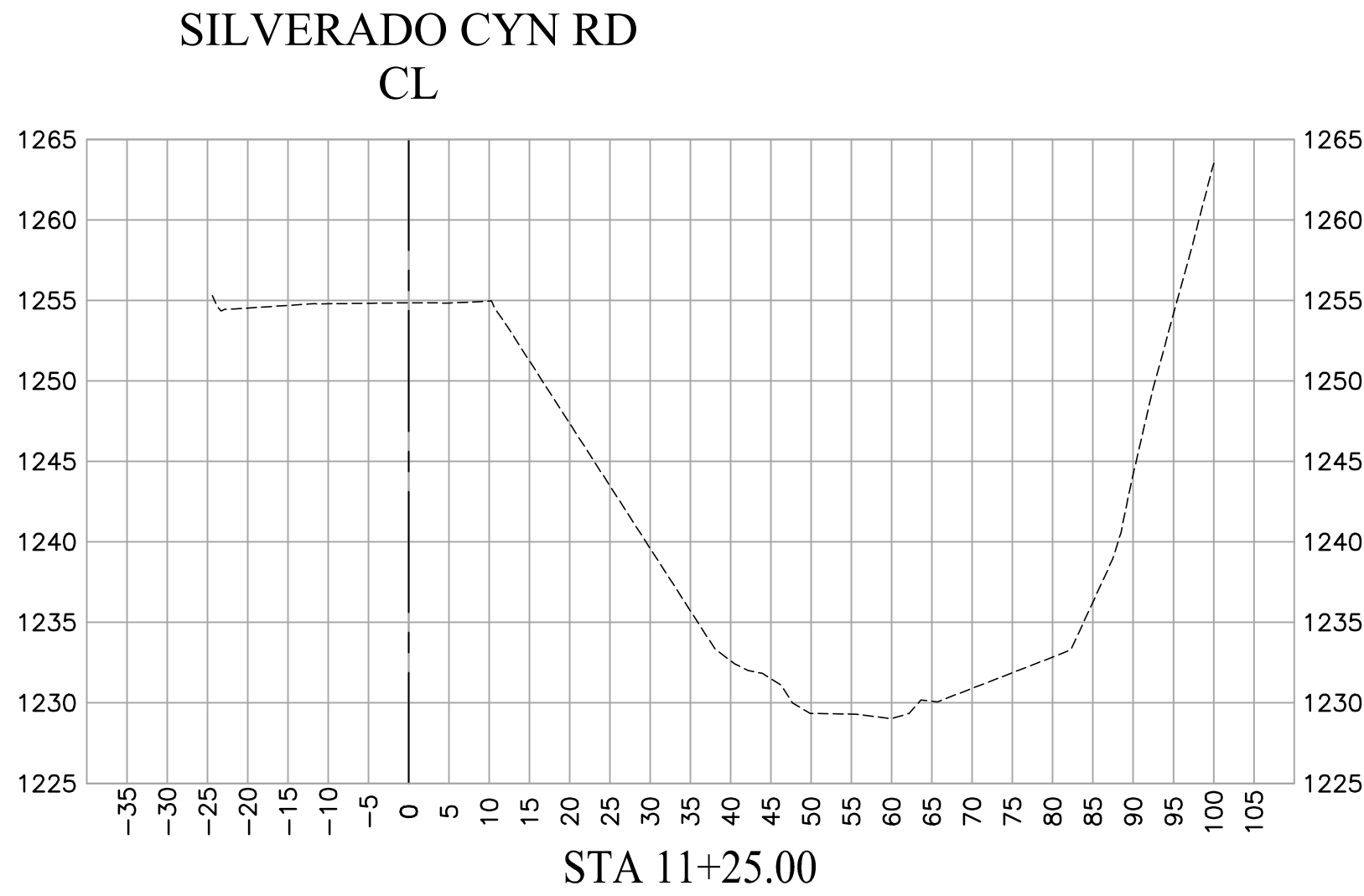
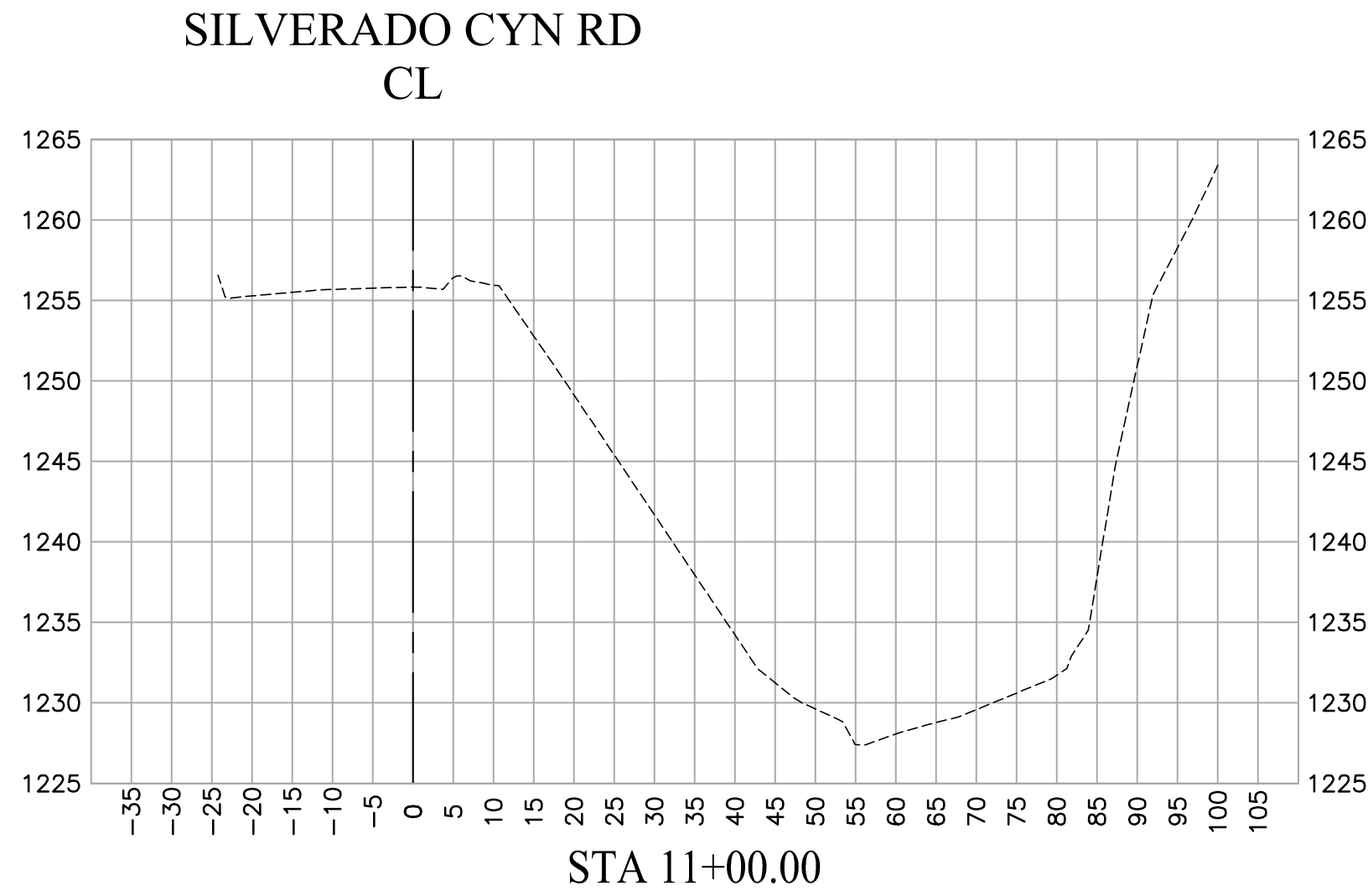
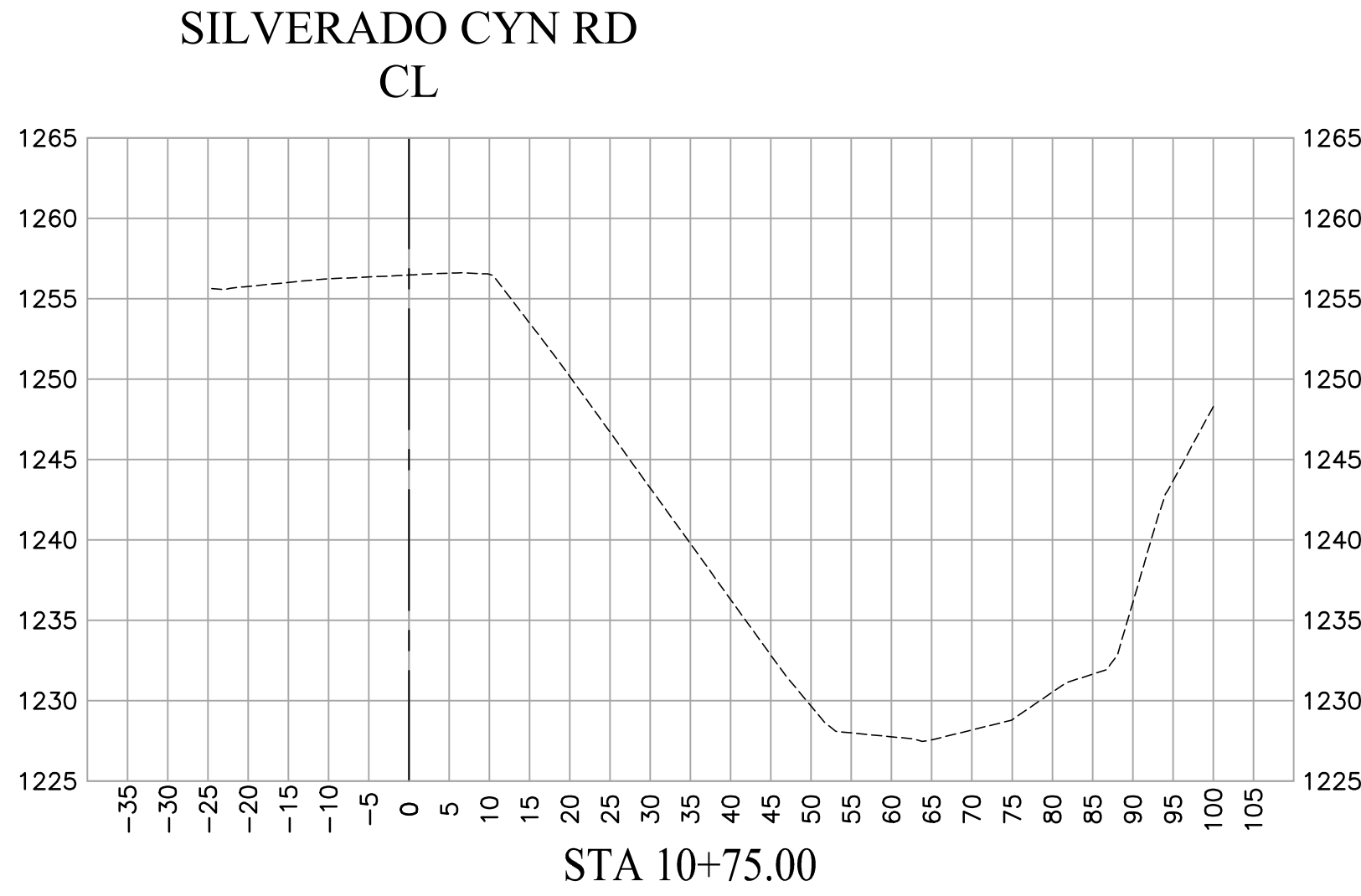
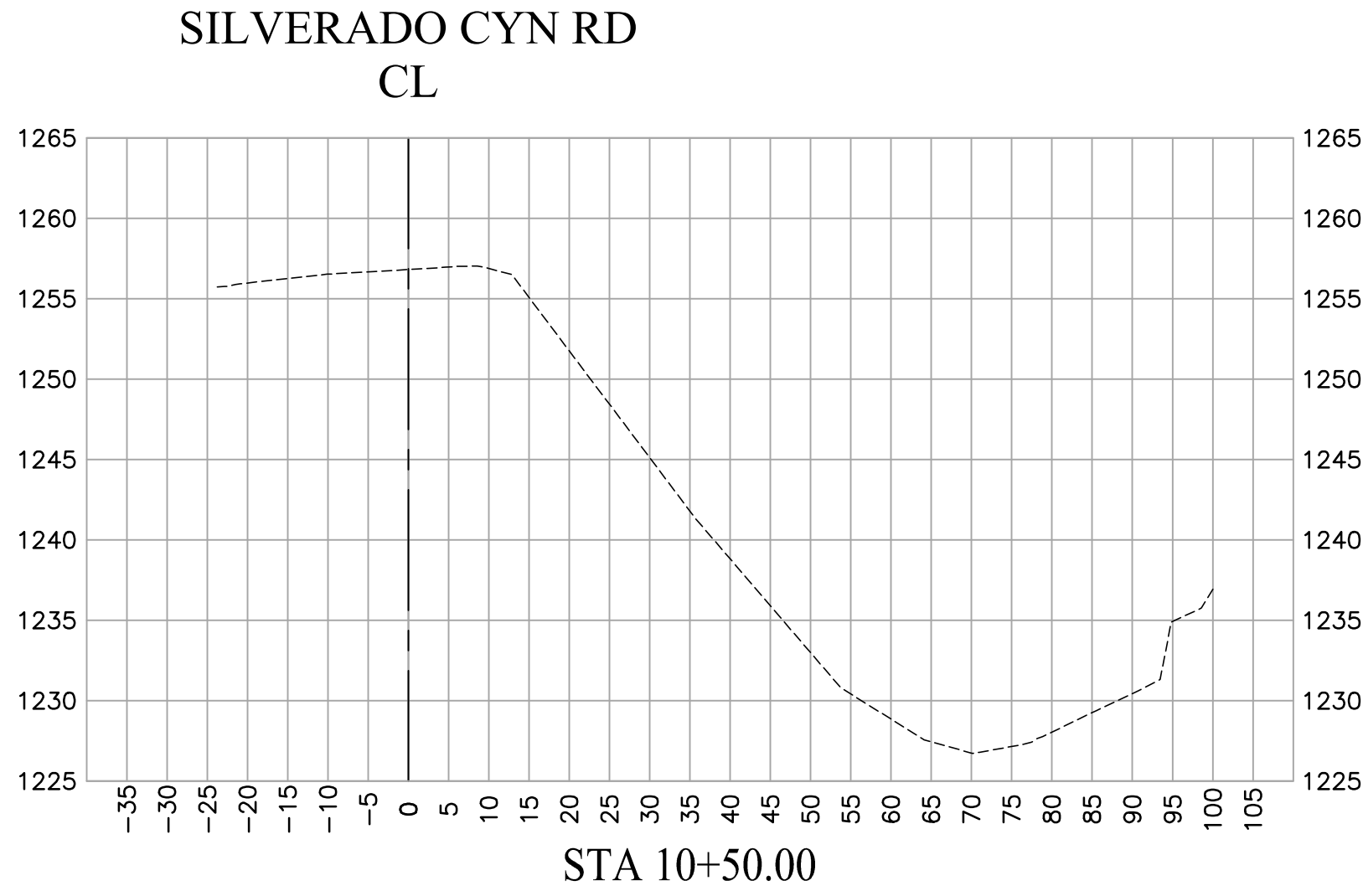
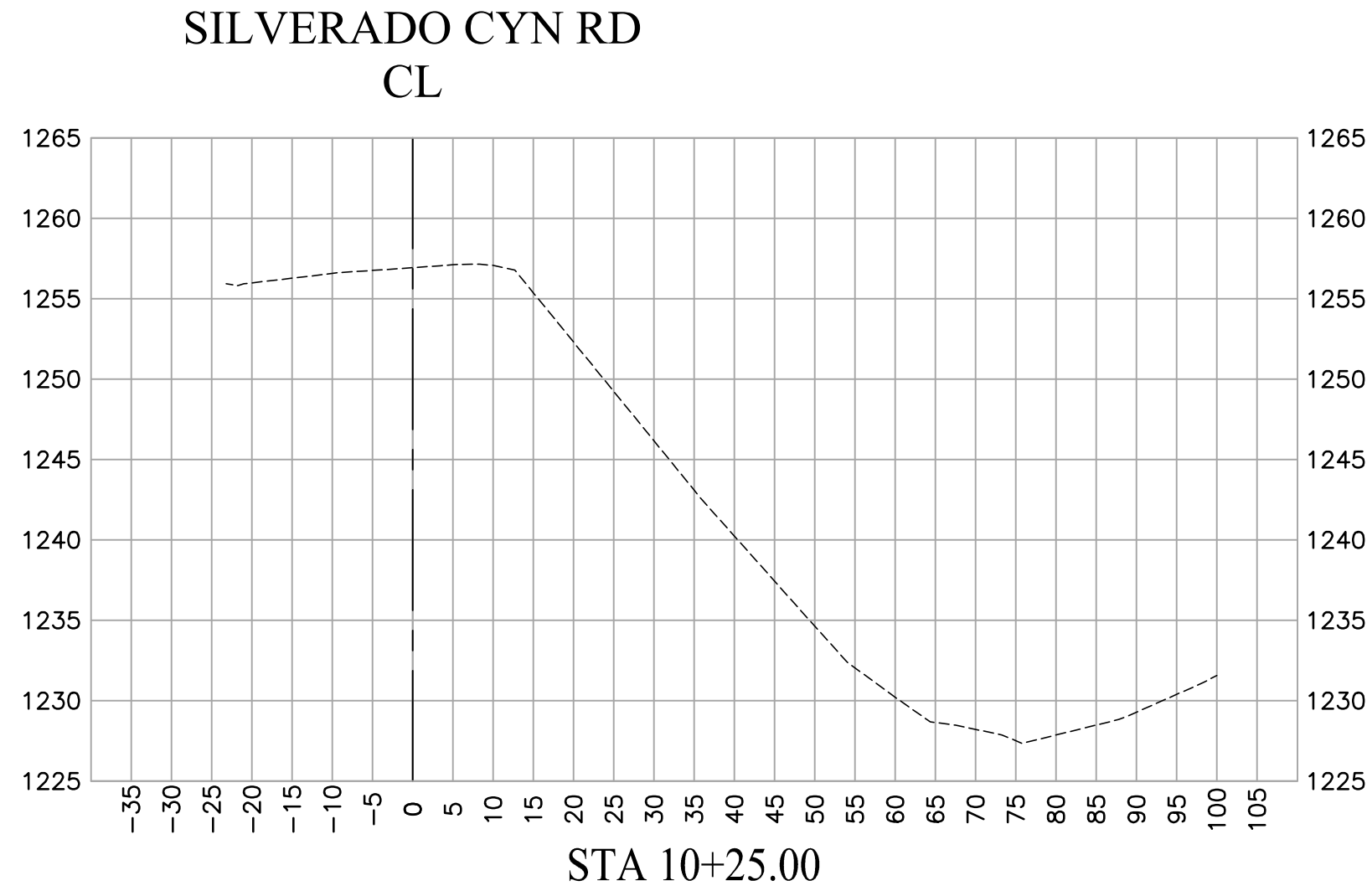
Dirt

Gravel



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

MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SILVERADO CANYON ROAD SLOPE EROSION PROJECT APN 105-101-27		
			TOPO MAP SHEET		
			PROJECT LIMITS: +/- 1300' E'LY OF KITTERMAN DR TO +/- 1200' NW'LY		
			OF RANCHO WAY		
			DATE OF SURVEY: 03/19/2020		SHEET NO. 3 of 5
			TOPOGRAPHIC MAPPING		
			OFFICE CHECK		
			FIELD CHECK		
			SCALE: N.T.S.		
FILE: SILVERADO_SLOPE_EROSION_TOPO_2020.DWG					
W.O. #ER19300		FILE #1920PW-OP0011			



LEGEND

LINE PATTERN KEY

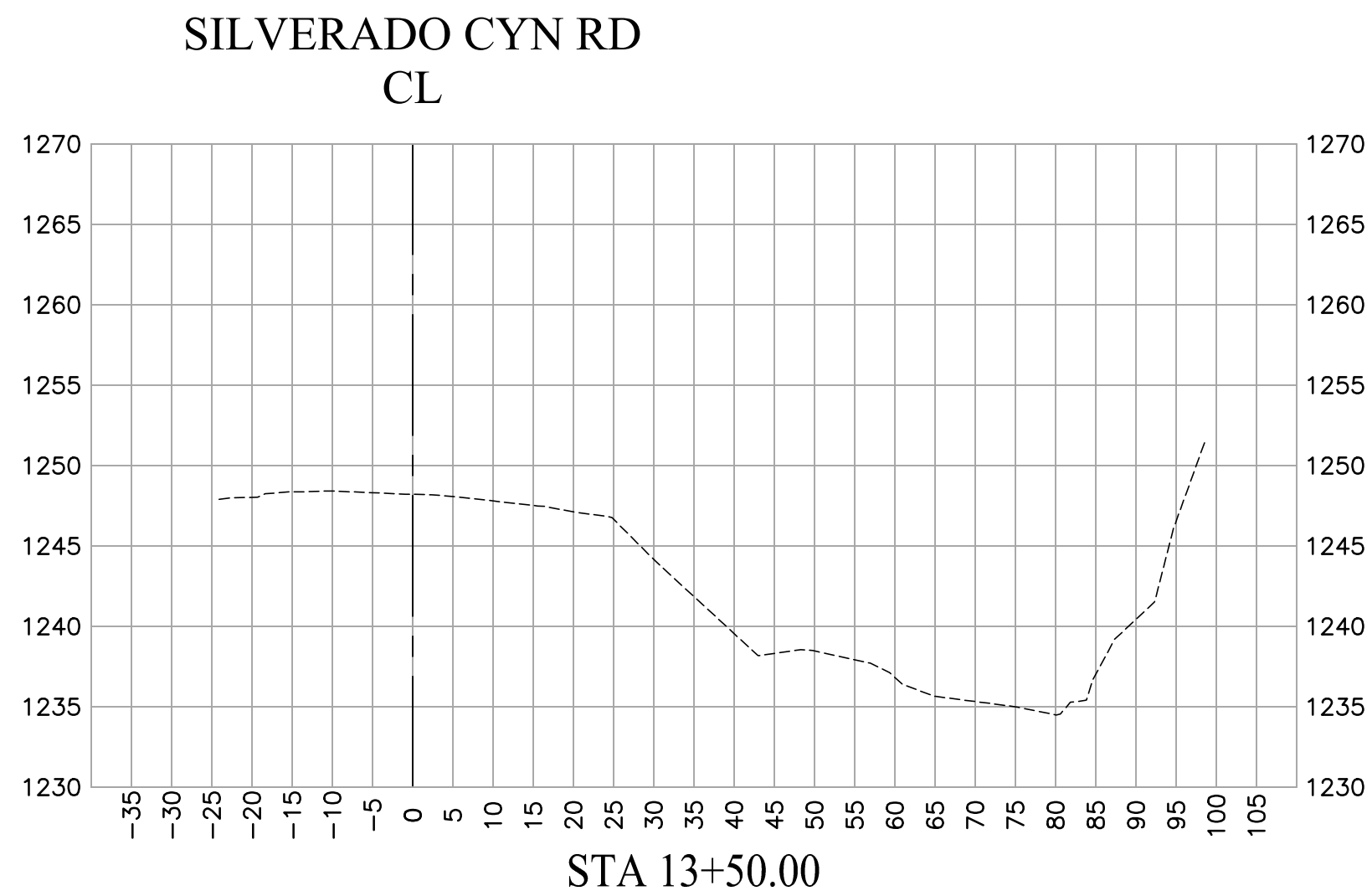
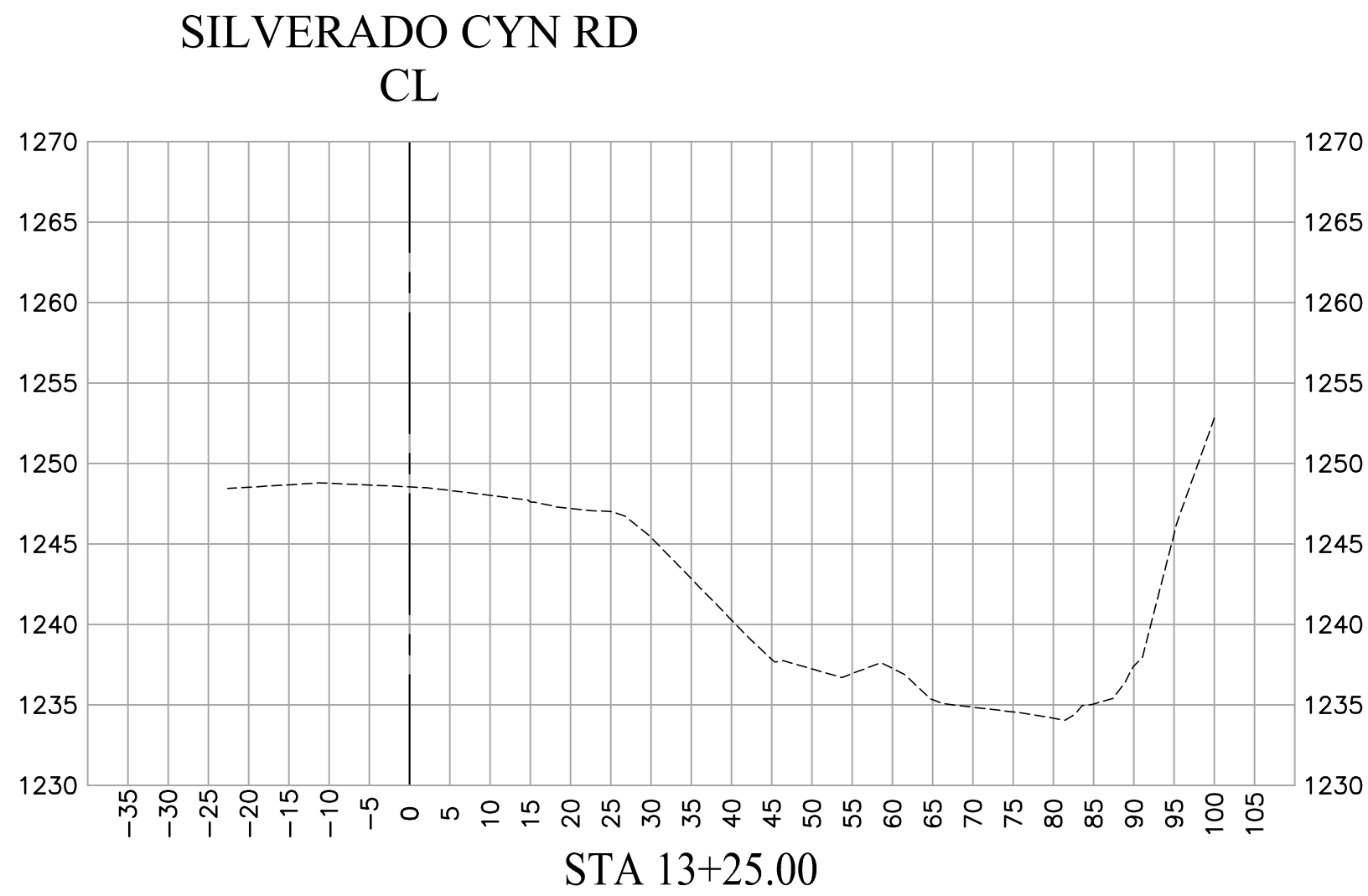
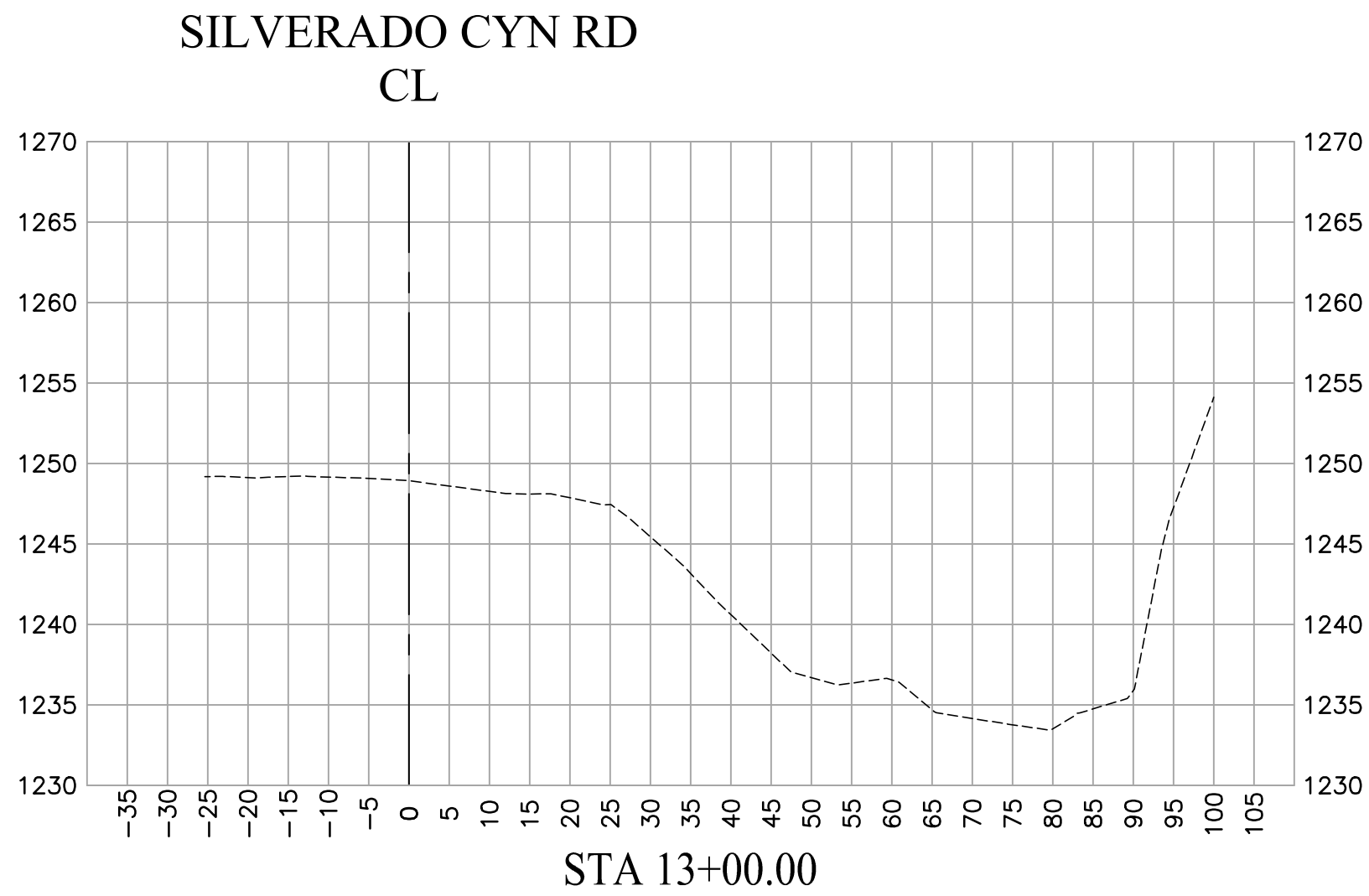
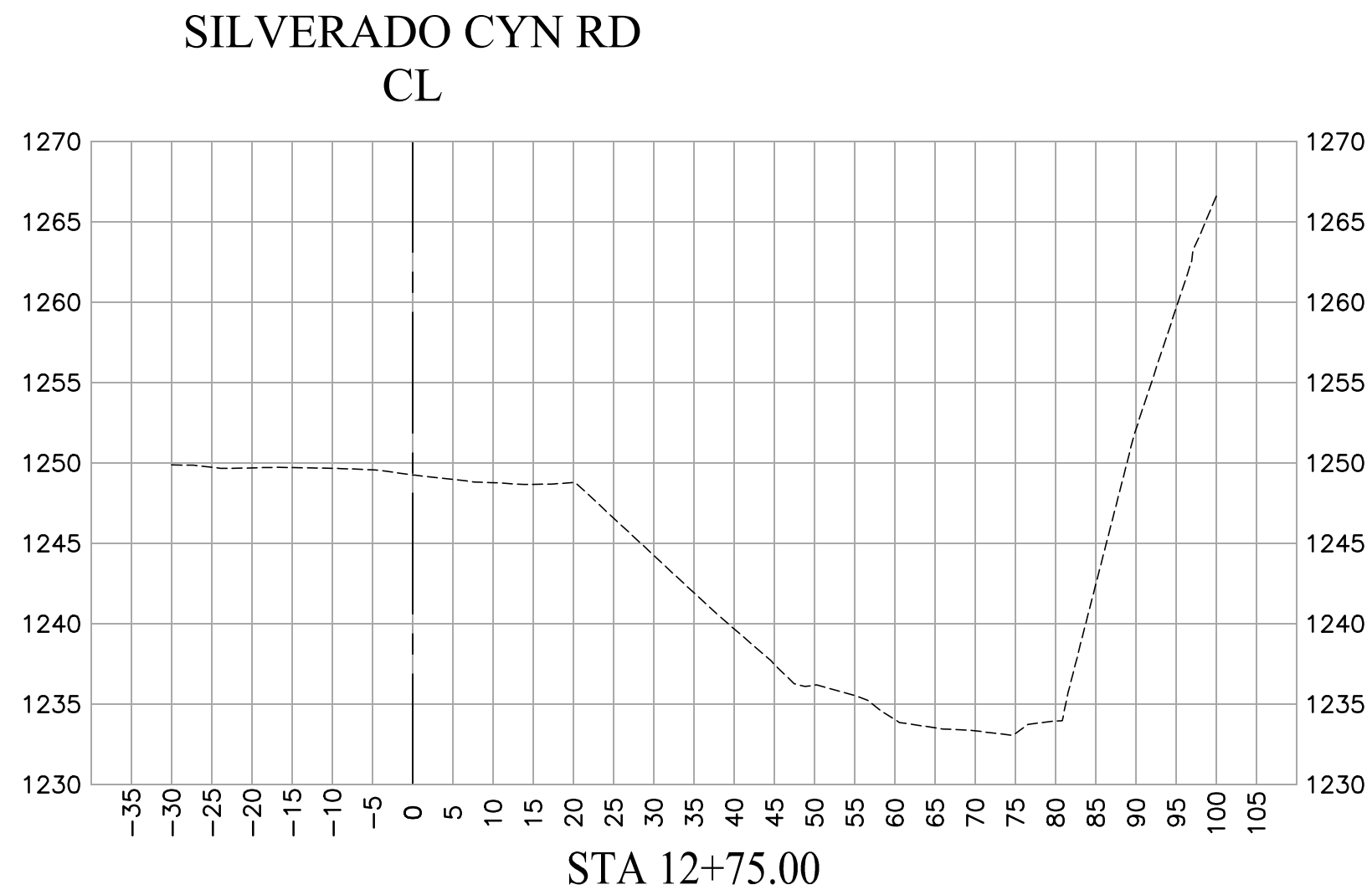
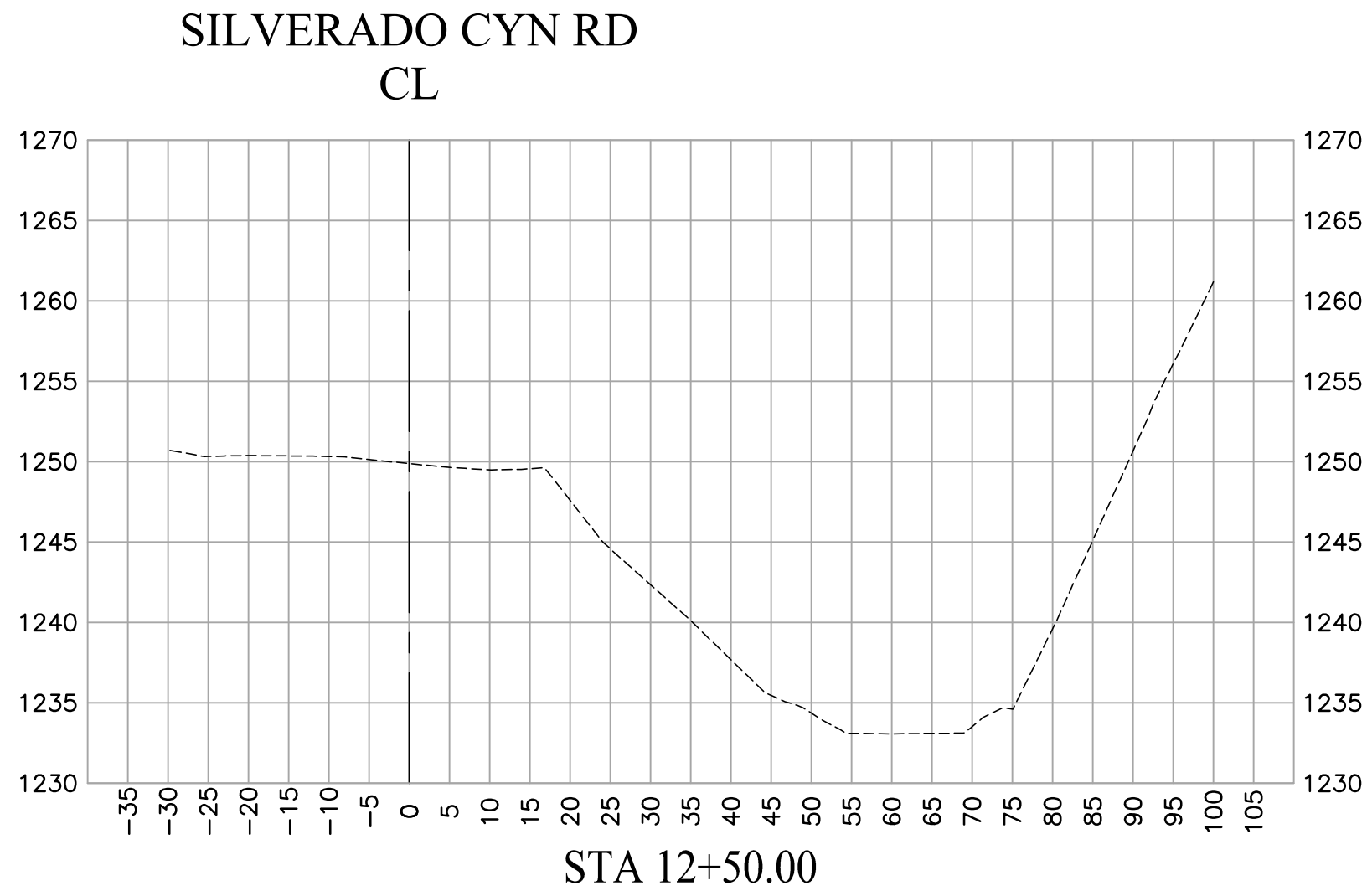
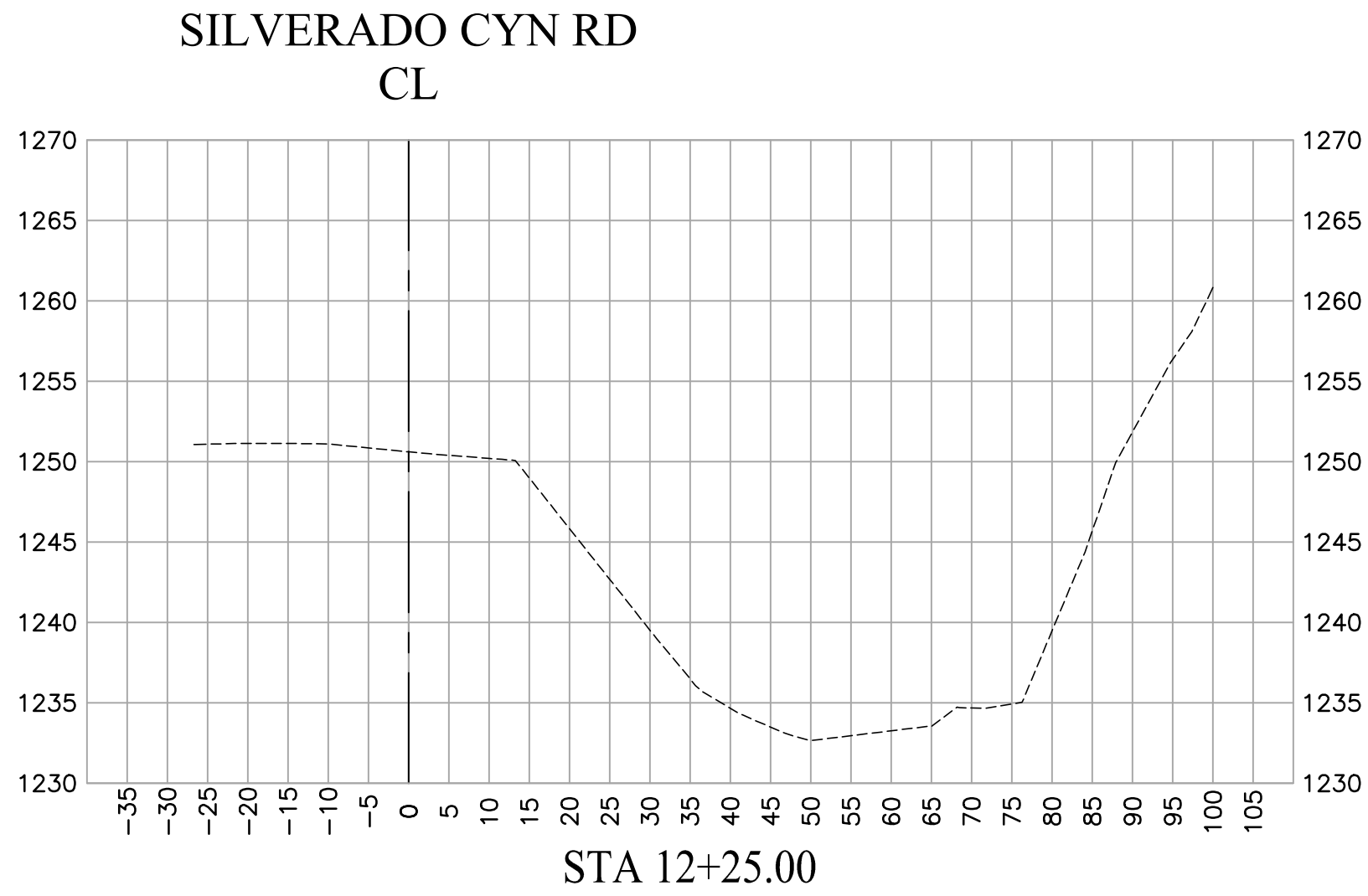
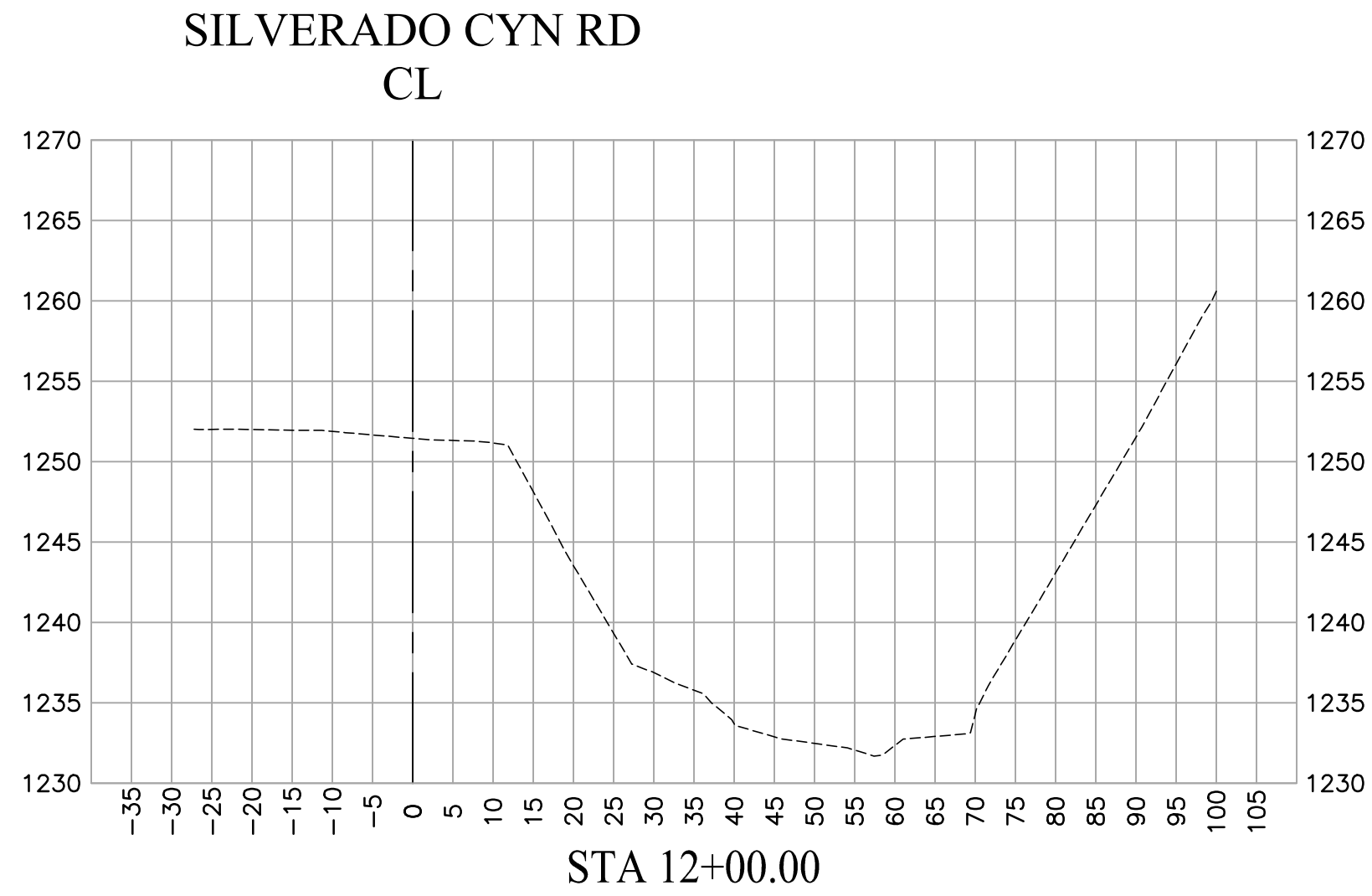
----- Existing Ground 2020

ALL SECTIONS
HORIZONTAL: 1"=20'
VERTICAL: 1"=20'

U.S. Survey
Foot

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

			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			SILVERADO CANYON ROAD SLOPE EROSION PROJECT APN 105-101-27				
			SECTIONS				
			PROJECT LIMITS: +/- 1300' E'LY OF KITTERMAN DR TO +/- 1200' NW'LY OF RANCHO WAY				
			DATE OF SURVEY: 03/19/2020		BY: R. MACIAS & PARTY		SHEET NO. 4 of 5
			TOPOGRAPHIC MAPPING		BY: L. ISLAS		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS, PLS		
			SCALE: N.T.S.		W.O. #ER19300		
			FILE: SILVERADO_SLOPE_EROSION_TOPO_2020.DWG		FILE #1920PW-CP0011		
MARK	DATE	ITEM	REVISIONS				



LEGEND

LINE PATTERN KEY

----- Existing Ground 2020

ALL SECTIONS
HORIZONTAL: 1"=20'
VERTICAL: 1"=20'



			COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING		
			SILVERADO CANYON ROAD SLOPE EROSION PROJECT APN 105-101-27		
			SECTIONS		
			PROJECT LIMITS: +/- 1300' E'LY OF KITTERMAN DR TO +/- 1200' NW'LY		
			OF RANCHO WAY		
			DATE OF SURVEY: 03/19/2020	BY: R. MACIAS & PARTY	SHEET NO. 5 of 5
			TOPOGRAPHIC MAPPING	BY: L. ISLAS	
			OFFICE CHECK	BY: E. MEDINA, PLS	
			FIELD CHECK	BY: R. MACIAS, PLS	
			SCALE: N.T.S.	W.O. #ER19300	FILE #1920PW-OP0011
			FILE: SILVERADO_SLOPE_EROSION_TOPO_2020.DWG		
MARK	DATE	ITEM	REVISIONS		