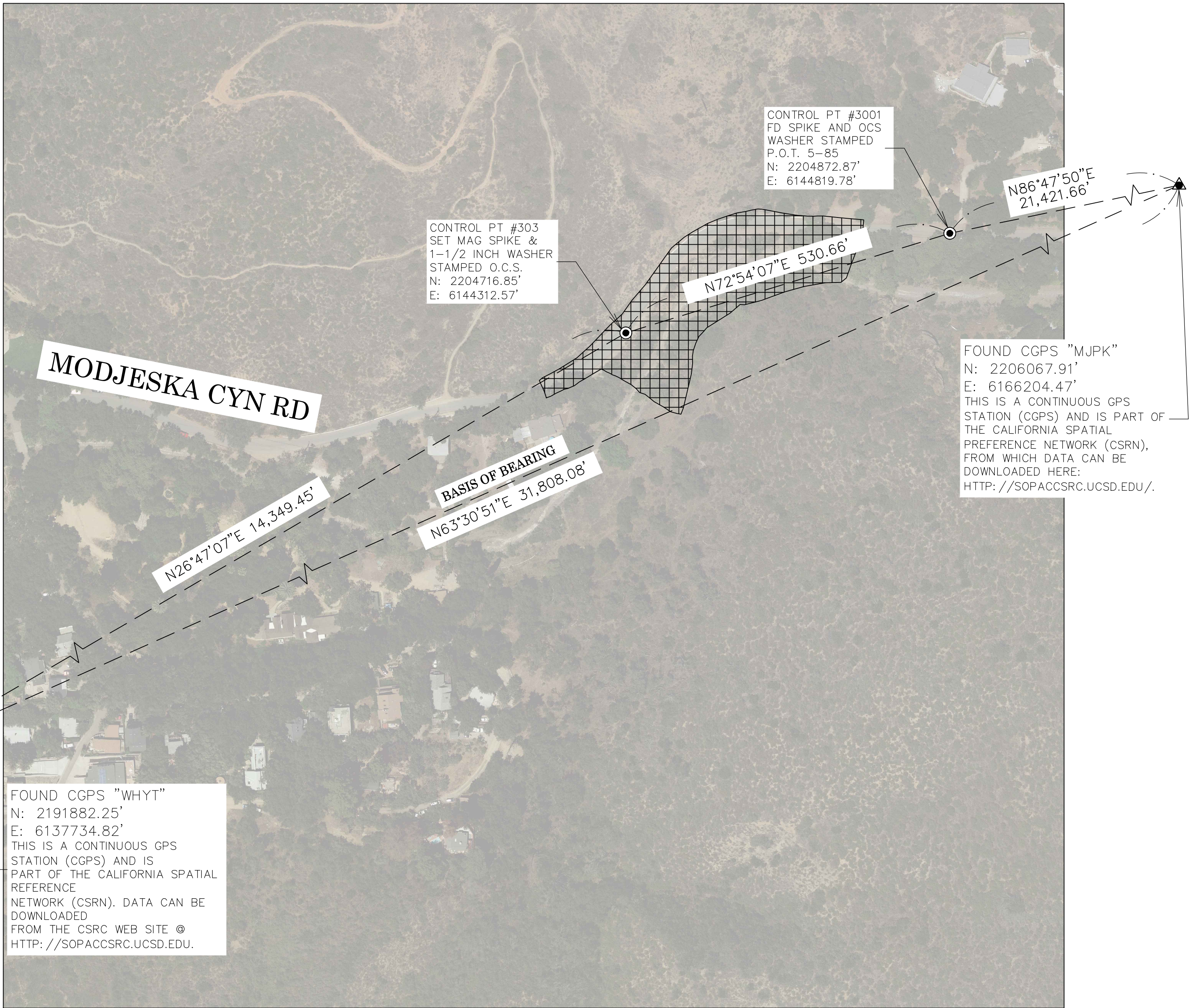
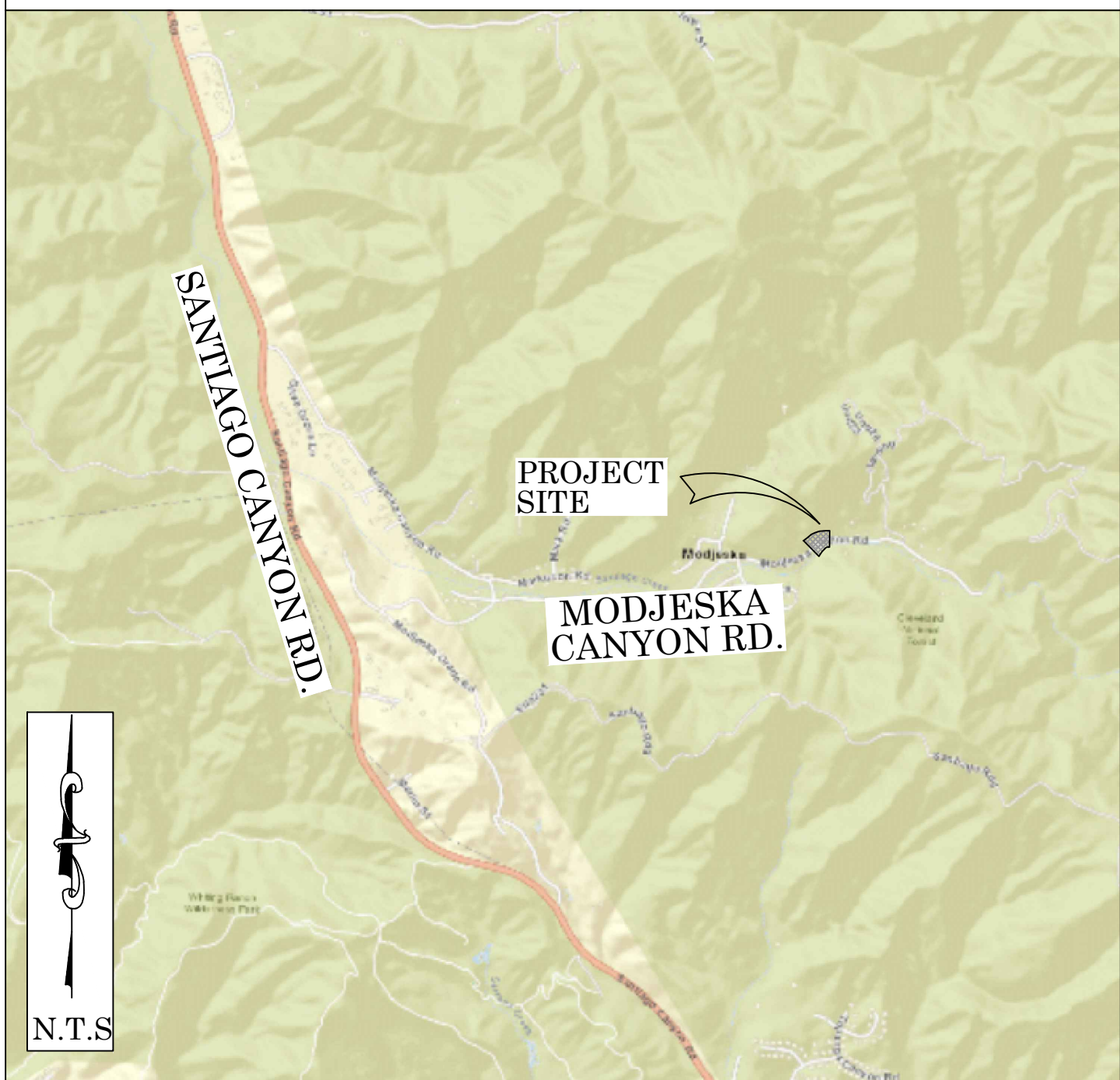




OC PUBLIC WORKS DEPARTMENT
KHALID BAZMI, PE, INTERIM DIRECTOR
KEVIN HILLS, COUNTY SURVEYOR
MODJESKA CANYON ROAD
SLOPE EROSION PROJECT



LOCATION MAP



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 (WHYT) BEING NORTH 63°30'51" EAST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT. COMBINATION FACTOR WAS HELD BY USING THE COMBINATION FACTORS FOR MONUMENT 300. ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY A GRID DISTANCE BY 1.00008484. ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

O.C.S. BM. 3UU-2-89 ELEV. = 1337.157' YEAR LEVELED: 1988
NAVD 1988 (O.C.S. 1995 ADJUSTMENT)
DESCRIPTION: FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3UU-2-89", SET IN THE TOP OF A CONCRETE BRIDGE RETAINING WALL. MONUMENT IS LOCATED IN THE SOUTHWESTERLY CORNER OF THE INTERSECTION OF MODJESKA CANYON ROAD AND OLIVE HILL ROAD, 44 FT. SOUTHEASTERLY OF THE CENTERLINE OF MODJESKA AND 8 FT. NORTHWESTERLY OF THE CENTERLINE OF OLIVE HILL. MONUMENT IS SET LEVEL WITH THE ROAD.

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.

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET 1	1	TITLE SHEET
SHEET 2	2	BOUNDARY
SHEET 3	3	TOPOGRAPHIC MAP
SHEET 4-6	4-6	SECTIONS

PURPOSE OF SURVEY

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

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 11 DAY OF MAY, 2020.

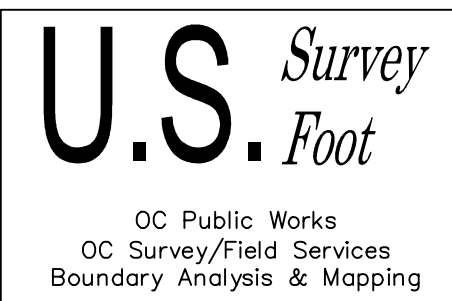
ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



DEPUTY COUNTY SURVEYOR'S STATEMENT:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT; THIS 11 DAY OF MAY, 2020.

WADE WEAVER, PLS. DEPUTY COUNTY SURVEYOR



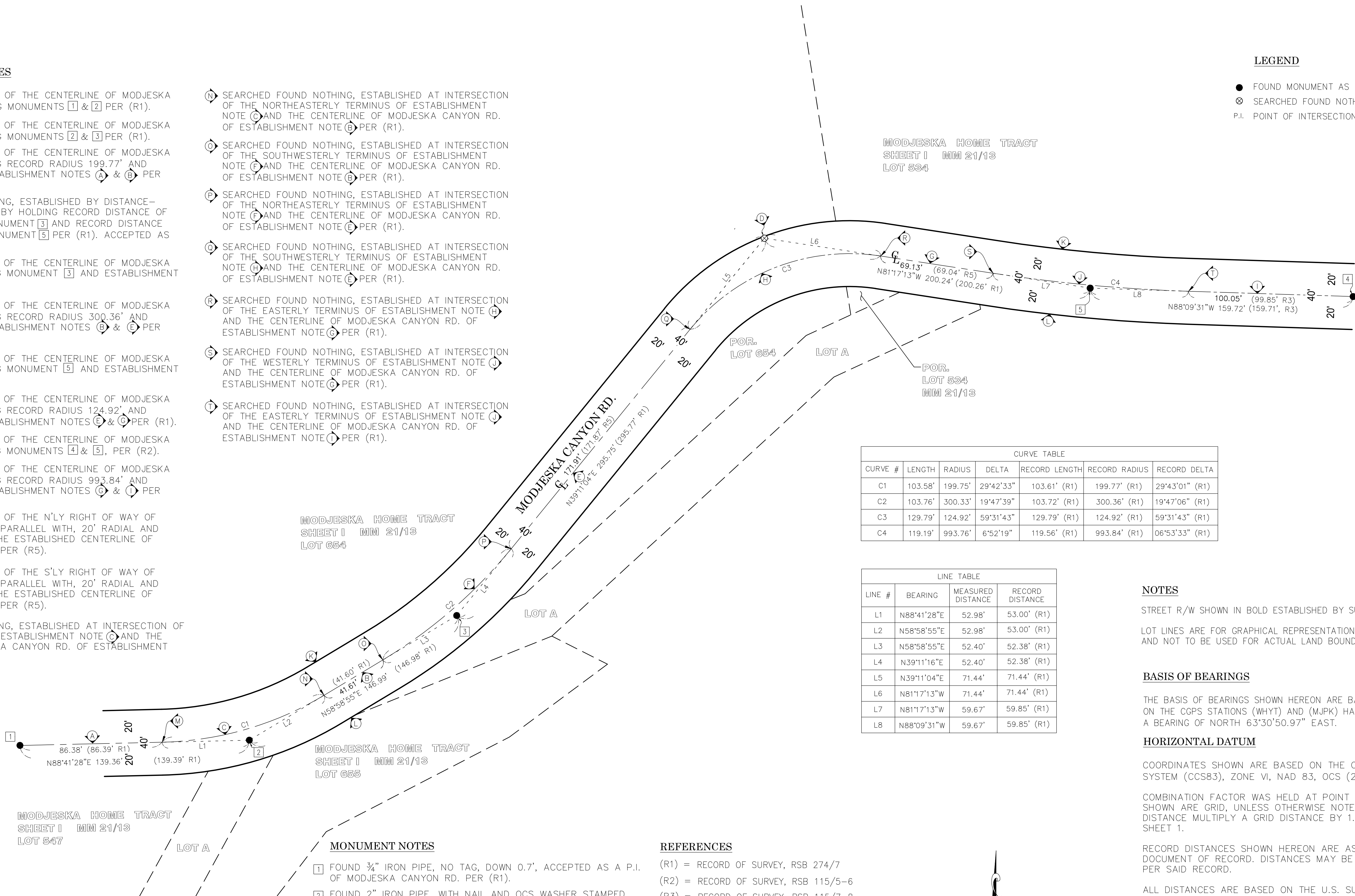
TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING						
		MODJESKA CANYON ROAD SLOPE EROSION PROJECT						
		TITLE SHEET						
		PROJECT LIMITS: FROM +/- 798' E'LY OF OLIVE HILL RD TO 830' NE'LY OF HARDING TRUCK TRAIL						
		DATE OF SURVEY: 03/27/2020		BY: R. MACIAS & PARTY		SHEET NO. 1 of 6		
		TOPOGRAPHIC MAPPING		BY: I. ISLAS				
		OFFICE CHECK		BY: E. MEDINA, PLS				
		FIELD CHECK		BY: R. MACIAS, PLS				
		MARK	DATE	ITEM	SCALE: N.T.S.		W.O. #ER19300	FILE #1920PW-OP0010
					REVISIONS			FILE: MODJESKA_CYN RD SLOPE EROSION_TOPO_2020.DWG

ESTABLISHMENT NOTES

- (A) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING MONUMENTS [1] & [2] PER (R1).
- (B) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING MONUMENTS [2] & [3] PER (R1).
- (C) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING RECORD RADIUS 199.77' AND TANGENCY BETWEEN ESTABLISHMENT NOTES (A) & (B) PER (R1).
- (D) SEARCHED FOUND NOTHING, ESTABLISHED BY DISTANCE-- DISTANCE INTERSECTION BY HOLDING RECORD DISTANCE OF 295.77' NE'LY FROM MONUMENT [3] AND RECORD DISTANCE 200.26' NW'LY FROM MONUMENT [5] PER (R1). ACCEPTED AS P.I. 6 PER (R1).
- (E) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING MONUMENT [3] AND ESTABLISHMENT NOTE (D) PER (R1).
- (F) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING RECORD RADIUS 300.36' AND TANGENCY BETWEEN ESTABLISHMENT NOTES (B) & (E) PER (R1).
- (G) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING MONUMENT [5] AND ESTABLISHMENT NOTE (D) PER (R1).
- (H) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING RECORD RADIUS 124.92' AND TANGENCY BETWEEN ESTABLISHMENT NOTES (E) & (G) PER (R1).
- (I) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING MONUMENTS [4] & [5], PER (R2).
- (J) ESTABLISHED A PORTION OF THE CENTERLINE OF MODJESKA CANYON RD. BY HOLDING RECORD RADIUS 993.84' AND TANGENCY BETWEEN ESTABLISHMENT NOTES (G) & (I) PER (R3).
- (K) 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 (R5).
- (L) 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 (R5).
- (M) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF WESTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (A) PER (R1).

- (N) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE NORTHEASTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (B) PER (R1).
- (O) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE SOUTHWESTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (B) PER (R1).
- (P) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE NORTHEASTERLY TERMINUS OF ESTABLISHMENT NOTE (C) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (E) PER (R1).
- (Q) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE SOUTHWESTERLY TERMINUS OF ESTABLISHMENT NOTE (H) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (E) PER (R1).
- (R) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE EASTERLY TERMINUS OF ESTABLISHMENT NOTE (H) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (G) PER (R1).
- (S) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE WESTERLY TERMINUS OF ESTABLISHMENT NOTE (J) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (G) PER (R1).
- (T) SEARCHED FOUND NOTHING, ESTABLISHED AT INTERSECTION OF THE EASTERLY TERMINUS OF ESTABLISHMENT NOTE (J) AND THE CENTERLINE OF MODJESKA CANYON RD. OF ESTABLISHMENT NOTE (I) PER (R1).



LEGEND

- FOUND MONUMENT AS NOTED
- ⊗ SEARCHED FOUND NOTHING
- P.I. POINT OF INTERSECTION

MODJESKA HOME TRACT
SHEET I MM 21/13
LOT 534

MODJESKA HOME TRACT
SHEET I MM 21/13
LOT 654

MODJESKA HOME TRACT
SHEET I MM 21/13
LOT 655

MODJESKA HOME TRACT
SHEET I MM 21/13
LOT 547

MONUMENT NOTES

- [1] FOUND ¾" IRON PIPE, NO TAG, DOWN 0.7', ACCEPTED AS A P.I. OF MODJESKA CANYON RD. PER (R1).
- [2] FOUND 2" IRON PIPE, WITH NAIL AND OCS WASHER STAMPED "PI4 5-85", DOWN 1.6', ACCEPTED AS A P.I. OF MODJESKA CANYON RD. PER (R3).
- [3] FOUND ¾" IRON PIPE, NO TAG, DOWN 0.5,' ACCEPTED AS A P.I. OF MODJESKA CANYON RD. PER (R4).
- [4] FOUND SPIKE AND OCS WASHER STAMPED "POT 5-85" DOWN 0.2', ACCEPTED AS A POINT ON CENTER LINE OF MODJESKA CANYON RD. PER (R3).
- [5] FOUND 3/4" IRON PIPE WITH NAIL, NO TAG, DOWN 1.0' ACCEPTED AS A P.I. OF MODJESKA CANYON RD. PER (R3).

REFERENCES

- (R1) = RECORD OF SURVEY, RSB 274/7
- (R2) = RECORD OF SURVEY, RSB 115/5-6
- (R3) = RECORD OF SURVEY, RSB 115/7-8
- (R4) = ALIGNMENT NOTES A/5-7/8; PAGES 211-215
- (R5) = OR 892/444-449

CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	RECORD LENGTH	RECORD RADIUS	RECORD DELTA
C1	103.58'	199.75'	29°42'33"	103.61' (R1)	199.77' (R1)	29°43'01" (R1)
C2	103.76'	300.33'	19°47'39"	103.72' (R1)	300.36' (R1)	19°47'06" (R1)
C3	129.79'	124.92'	59°31'43"	129.79' (R1)	124.92' (R1)	59°31'43" (R1)
C4	119.19'	993.76'	6°52'19"	119.56' (R1)	993.84' (R1)	06°53'33" (R1)

LINE TABLE			
LINE #	BEARING	MEASURED DISTANCE	RECORD DISTANCE
L1	N88°41'28"E	52.98'	53.00' (R1)
L2	N58°58'55"E	52.98'	53.00' (R1)
L3	N58°58'55"E	52.40'	52.38' (R1)
L4	N39°11'16"E	52.40'	52.38' (R1)
L5	N39°11'04"E	71.44'	71.44' (R1)
L6	N81°17'13"W	71.44'	71.44' (R1)
L7	N81°17'13"W	59.67'	59.85' (R1)
L8	N88°09'31"W	59.67'	59.85' (R1)

NOTES

STREET R/W SHOWN IN BOLD ESTABLISHED BY SURVEY.

LOT LINES ARE FOR GRAPHICAL REPRESENTATION ONLY AND NOT TO BE USED FOR ACTUAL LAND BOUNDARY.

BASIS OF BEARINGS

THE BASIS OF BEARINGS SHOWN HEREON ARE BASED ON THE CGPS STATIONS (WHYT) AND (MJPK) HAVING A BEARING OF NORTH 63°30'50.97" EAST.

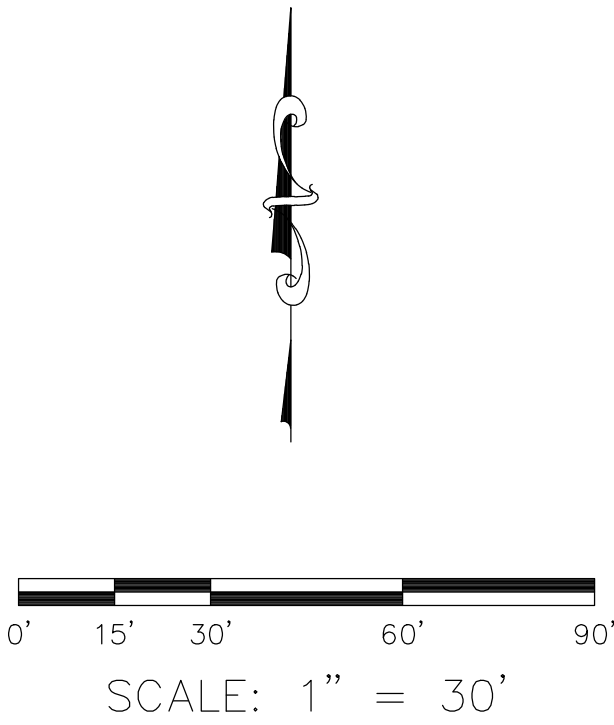
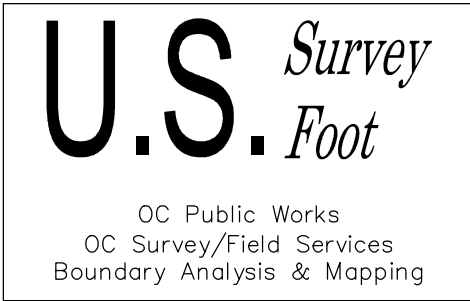
HORIZONTAL DATUM

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

COMBINATION FACTOR WAS HELD AT POINT #300. ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCE MULTIPLY A GRID DISTANCE BY 1.00008484, AS SHOWN ON SHEET 1.

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.



MARK	DATE	ITEM	COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING				
			MODJESKA CANYON RD. CENTERLINE ESTABLISHMENT				
			BOUNDARY MAP				
			PROJECT LIMITS: FROM +/- 798' E'LY OF OLIVE HILL RD TO 830' N'E'LY OF HARDING				
			DATE OF SURVEY: 03/27/2020		BY: R. MACIAS & PARTY		SHEET NO. 2 of 6
			MAPPING		BY: S. STROM		
			OFFICE CHECK		BY: E. MEDINA, PLS		
			FIELD CHECK		BY: R. MACIAS		
			SCALE: 1"=30'		W.O. #ER19300		
			REVISIONS		FILE #1920PW-0P010		
FILE: MODJESKA CYN RD_SLOPE EROSION_BOUNDARY_2020.DWG							

SYMBOL

△

Control Point

⊕

Guy Wire Anchor

⊕

Pipe Inlet/Outlet

⊕

Post

⊕

Sign Post

⊕

Tree

⊕

Utility Pole

⊕

Vault Water

⊕

Vent Pipe

ABBREVIATION

CONC

Concrete

CP

Control Point

EL

Elevation

LINE PATTERN KEY

Centerline

Edge of Asphalt

Pavement

Fence Wood

Flowline

Grade Line

Hinge Point

Property Line

Right of Way

Toe of Slope

AREA PATTERN KEY

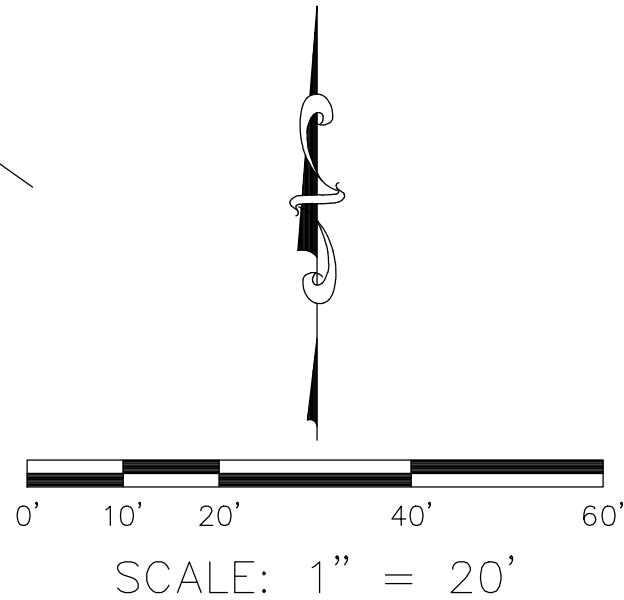
Concrete

Dirt

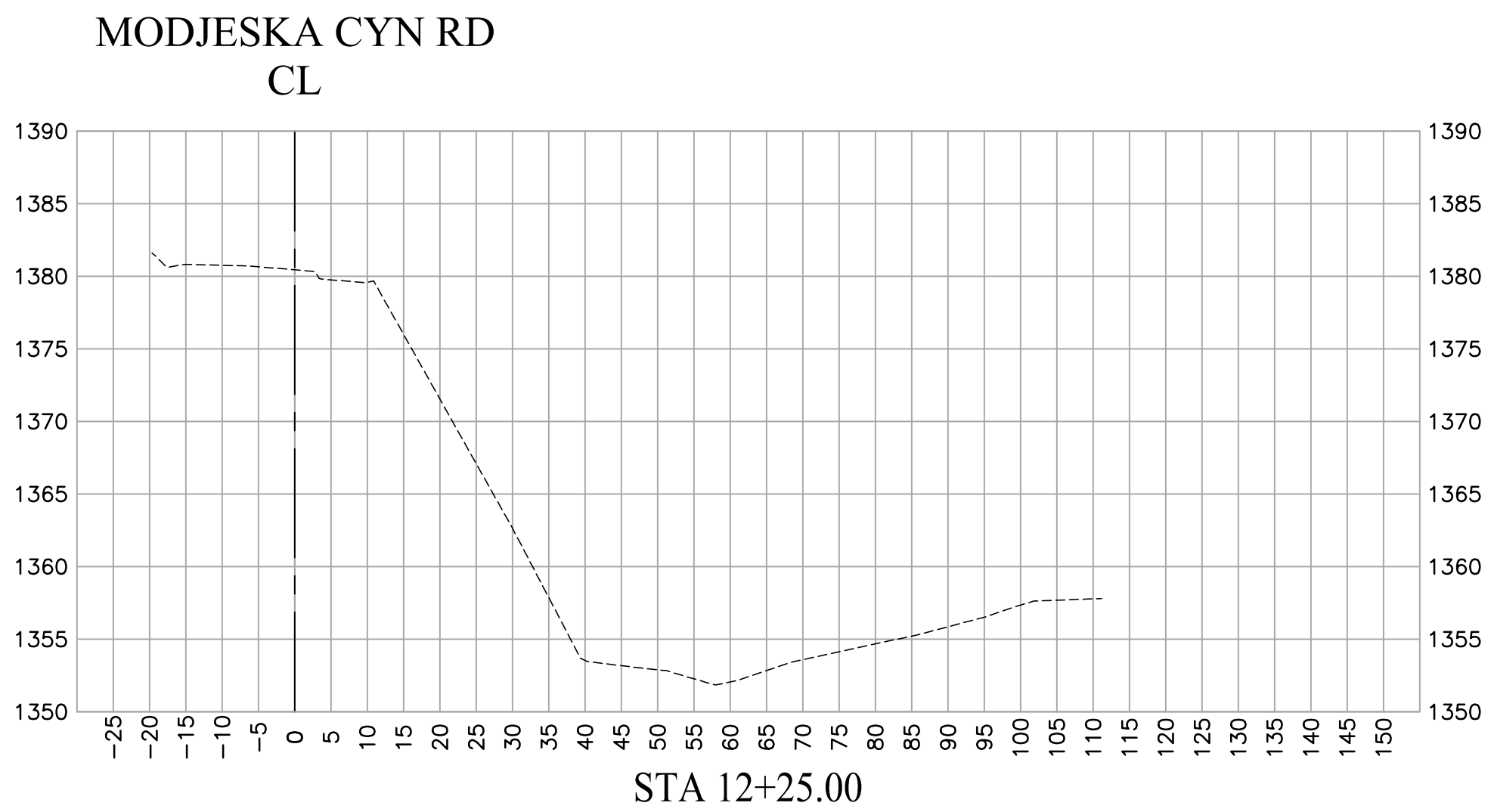
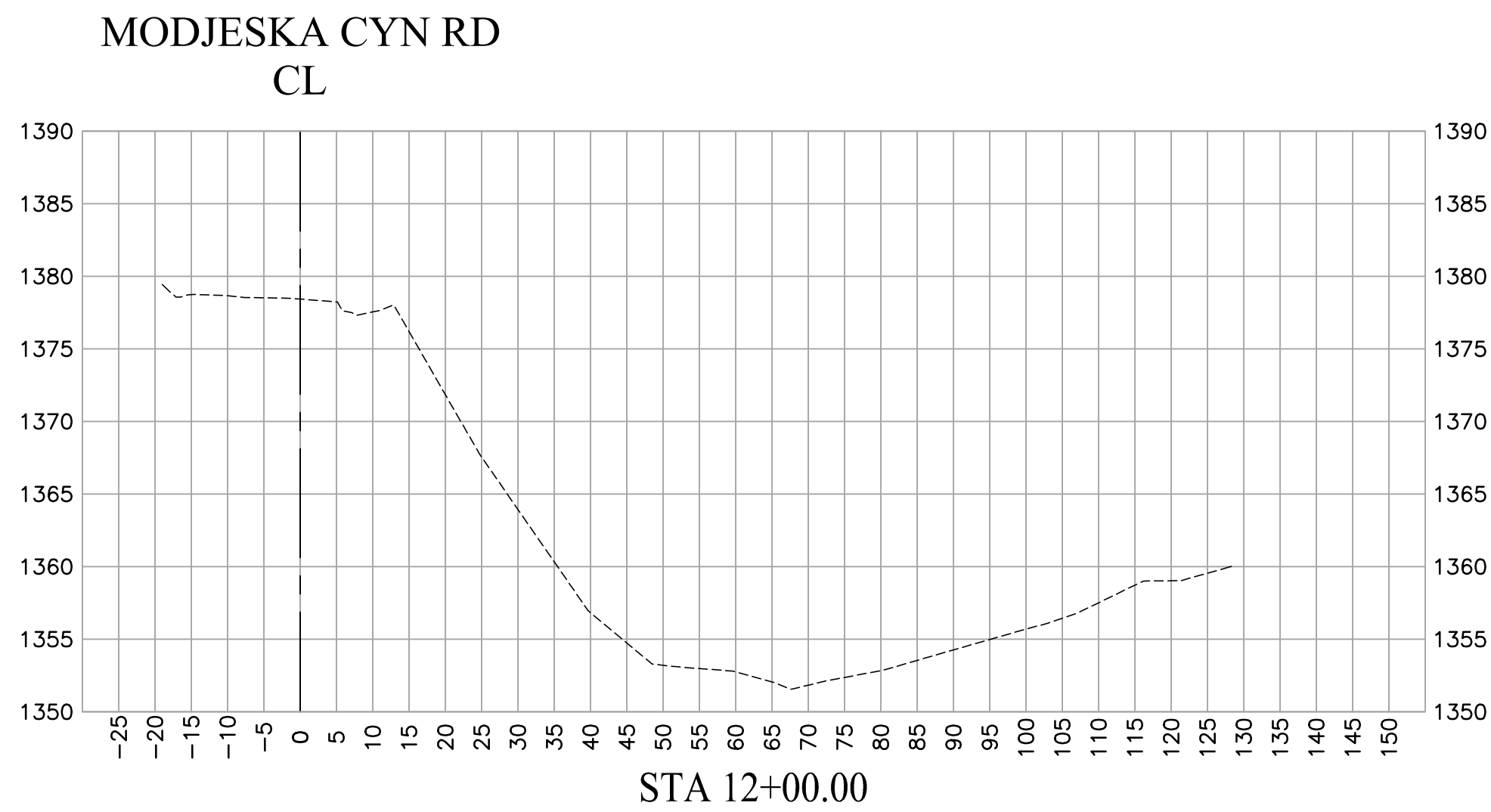
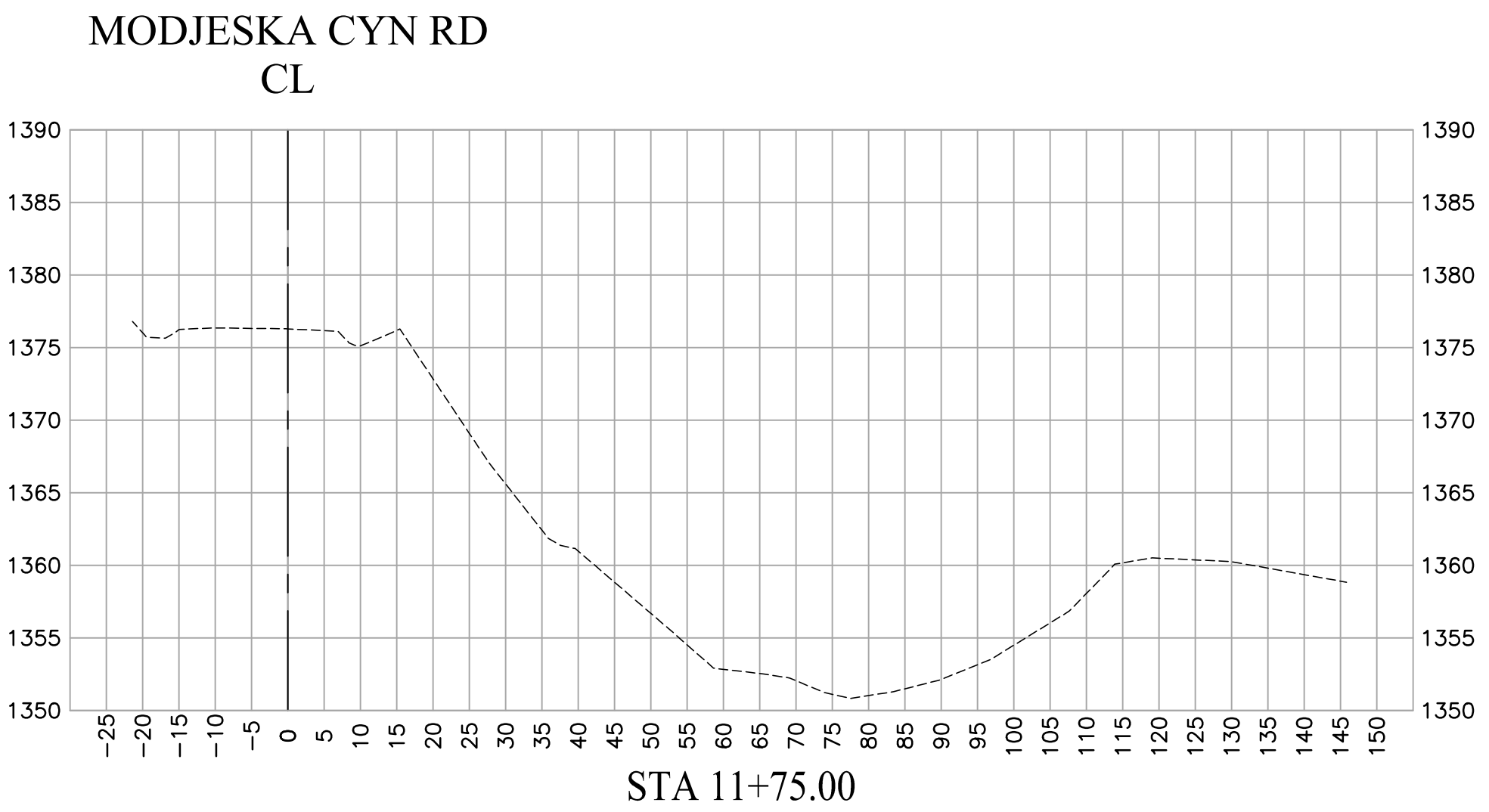
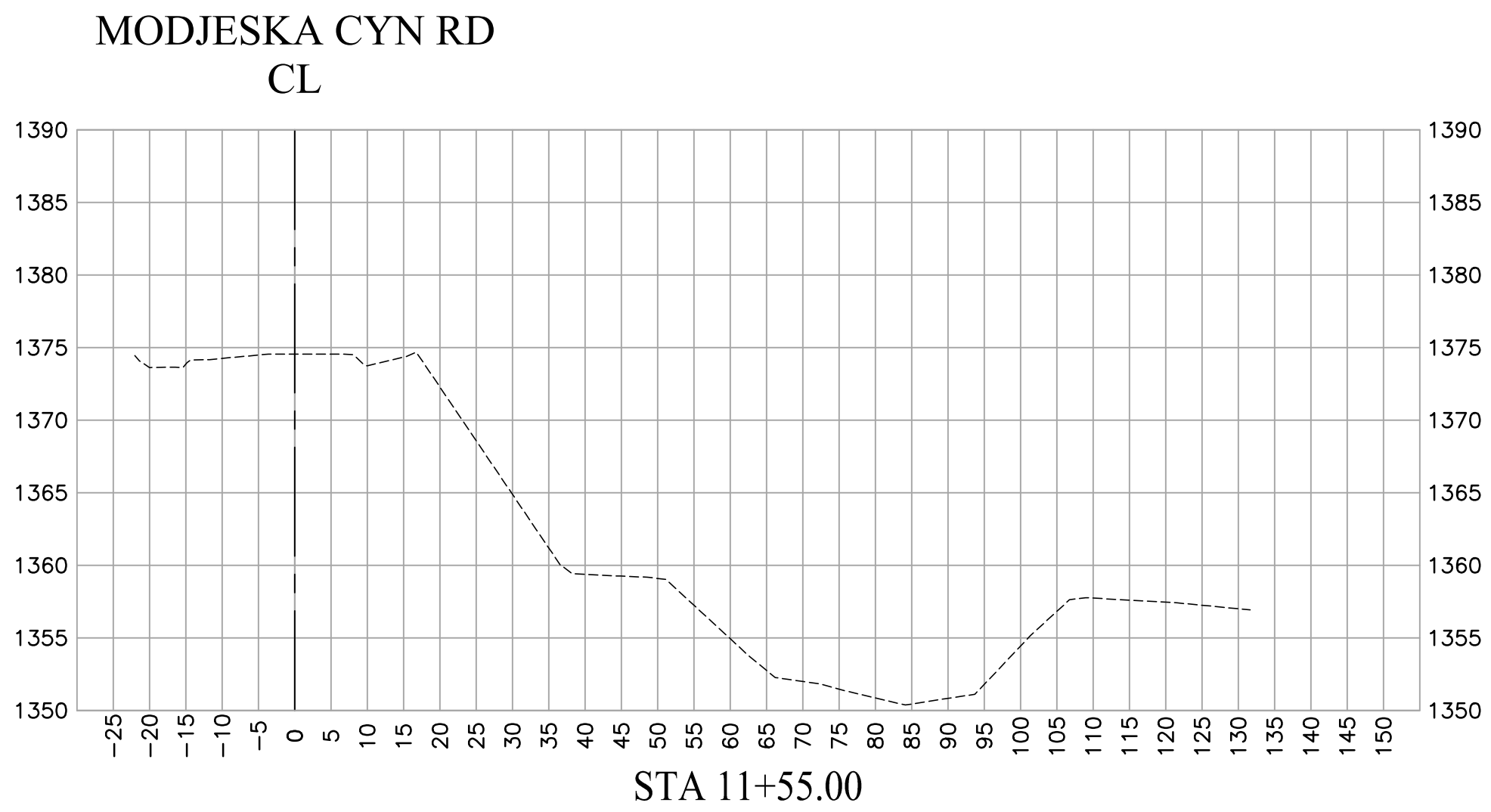
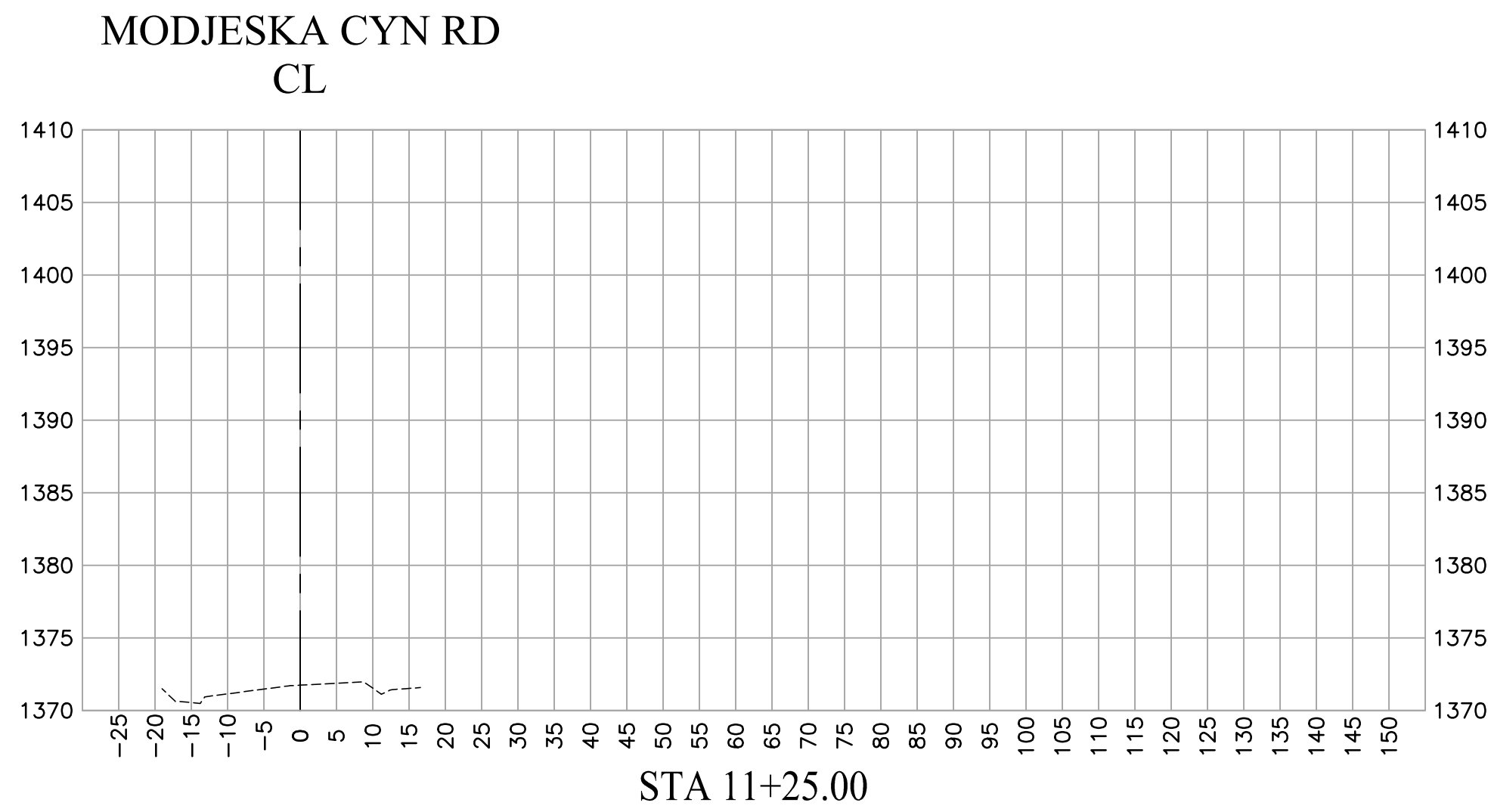
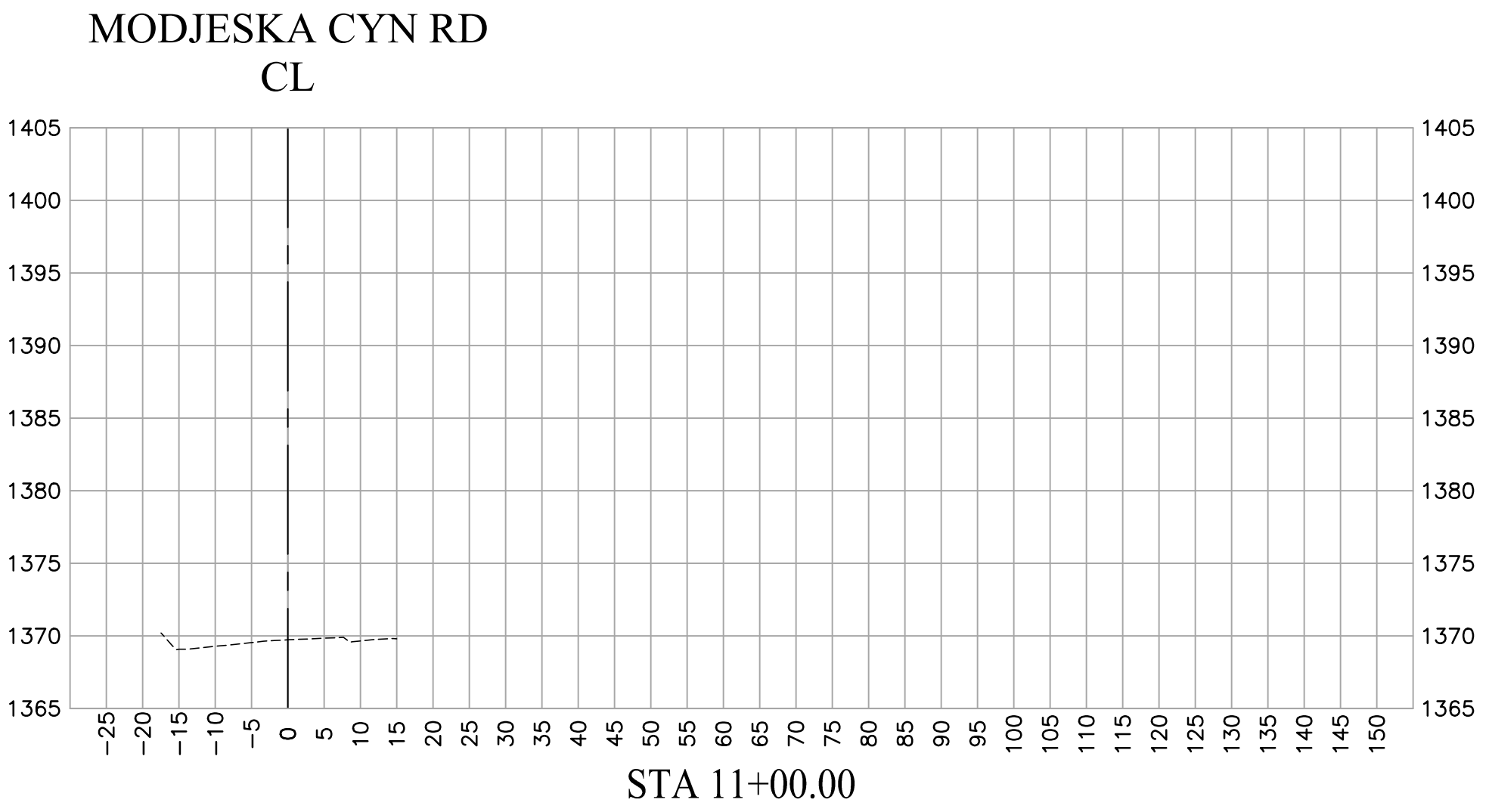
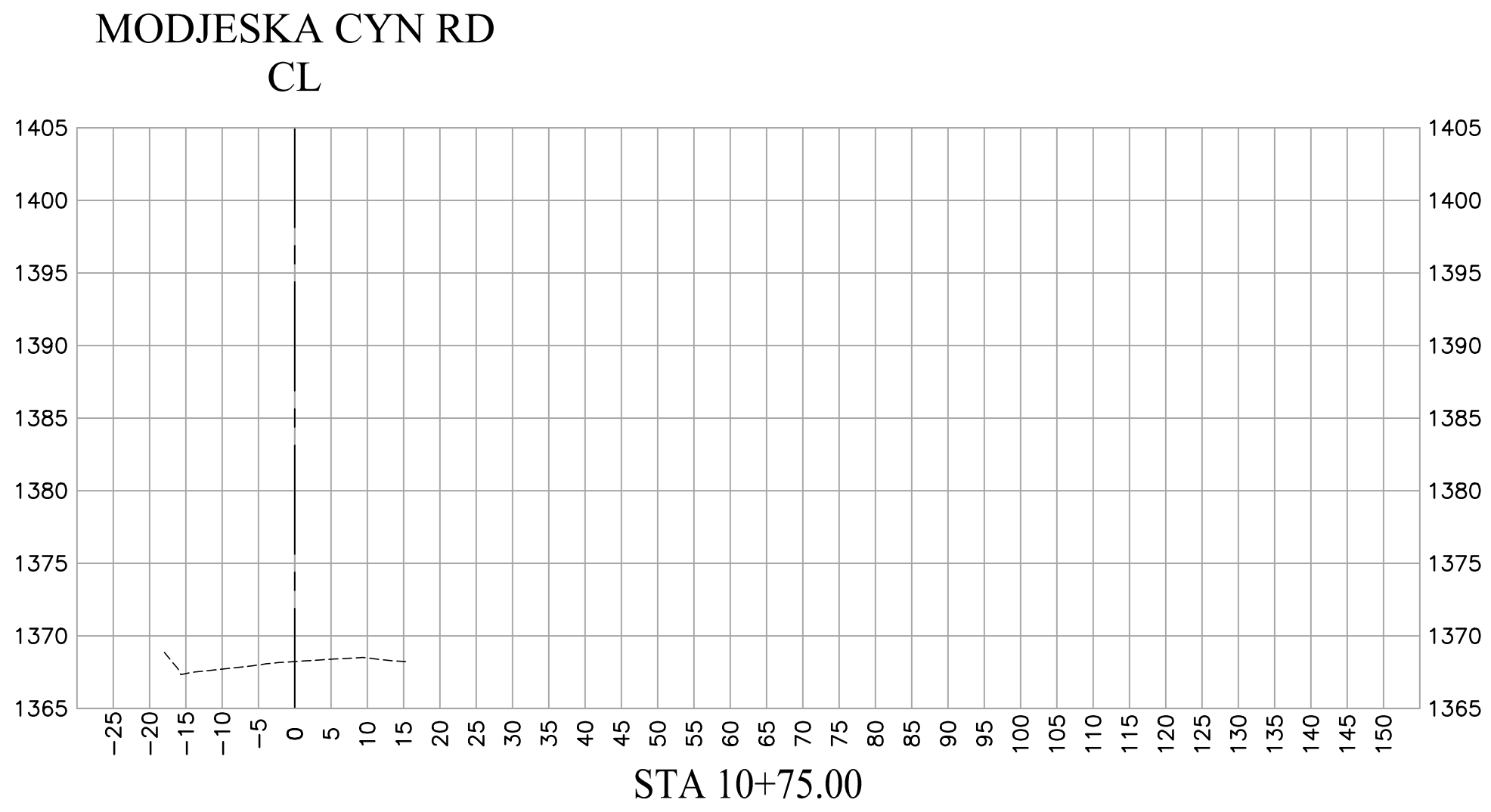
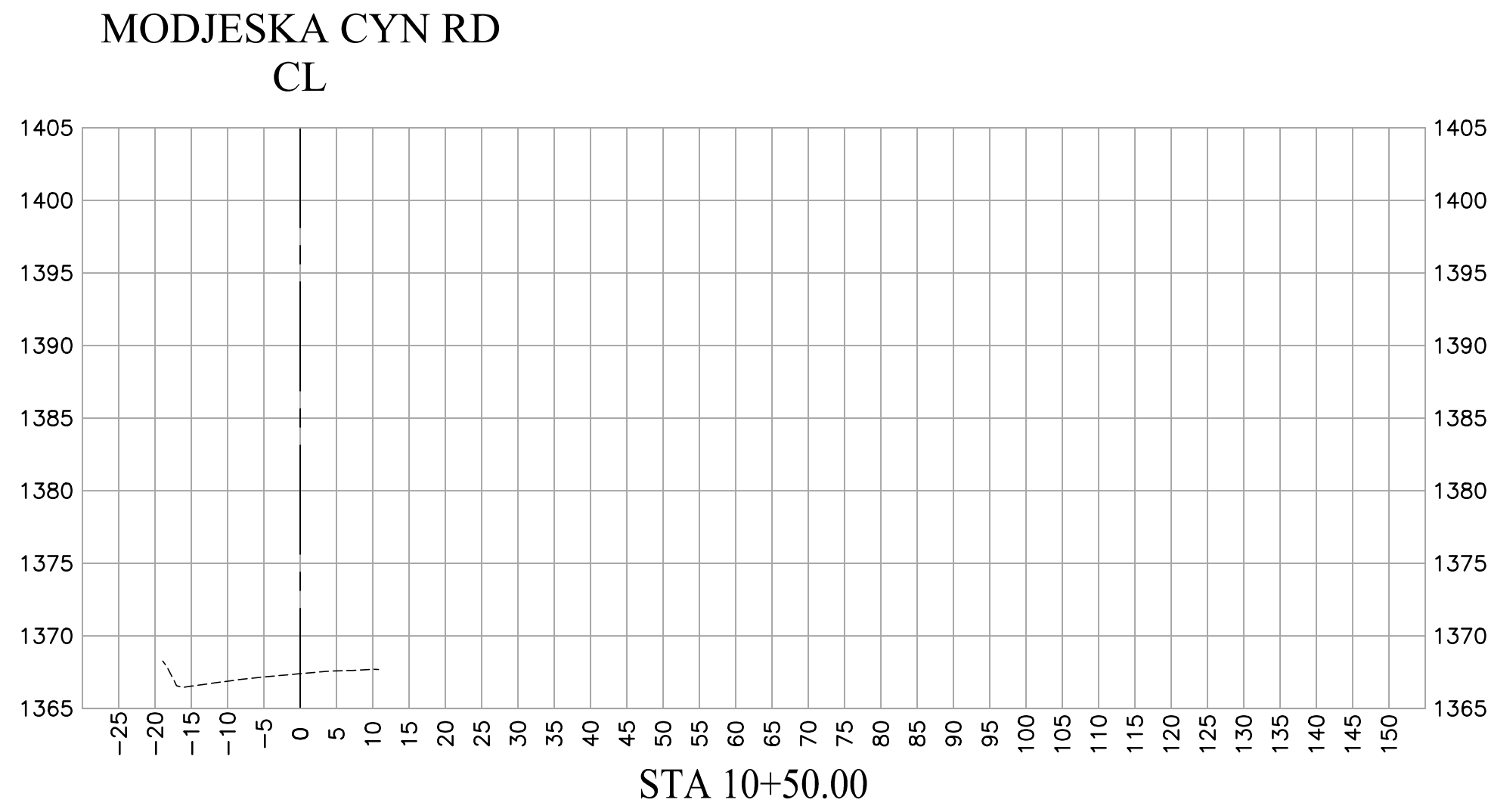
Gravel



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



MARKDATEITEM		COUNTY OF ORANGE OC PUBLIC WORKS/ENGINEERING SERVICES OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING			
		MODJESKA CANYON ROAD SLOPE EROSION PROJECT			
		TOPO MAP SHEET			
		PROJECT LIMITS: FROM +/- 798' E'LY OF OLIVE HILL RD TO 830' NE'LY OF HARDING			
		TRUCK TRAIL			
		DATE OF SURVEY: 03/27/2020		BY: R. MACIAS & PARTY	SHEET NO. 3 of 6
		TOPOGRAPHIC MAPPING		BY: I. ISLAS	
		OFFICE CHECK		BY: E. MEDINA, PLS	
		FIELD CHECK		BY: R. MACIAS, PLS	
		SCALE: N.T.S.		W.O. #ER19300	
FILE: MODJESKA CYN RD SLOPE EROSION_TOPO_2020.DWG		FILE #1920PW-OP0010			
REVISIONS					



LEGEND

LINE PATTERN KEY

Existing Ground 2020

ALL SECTIONS
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

U.S. *Survey*

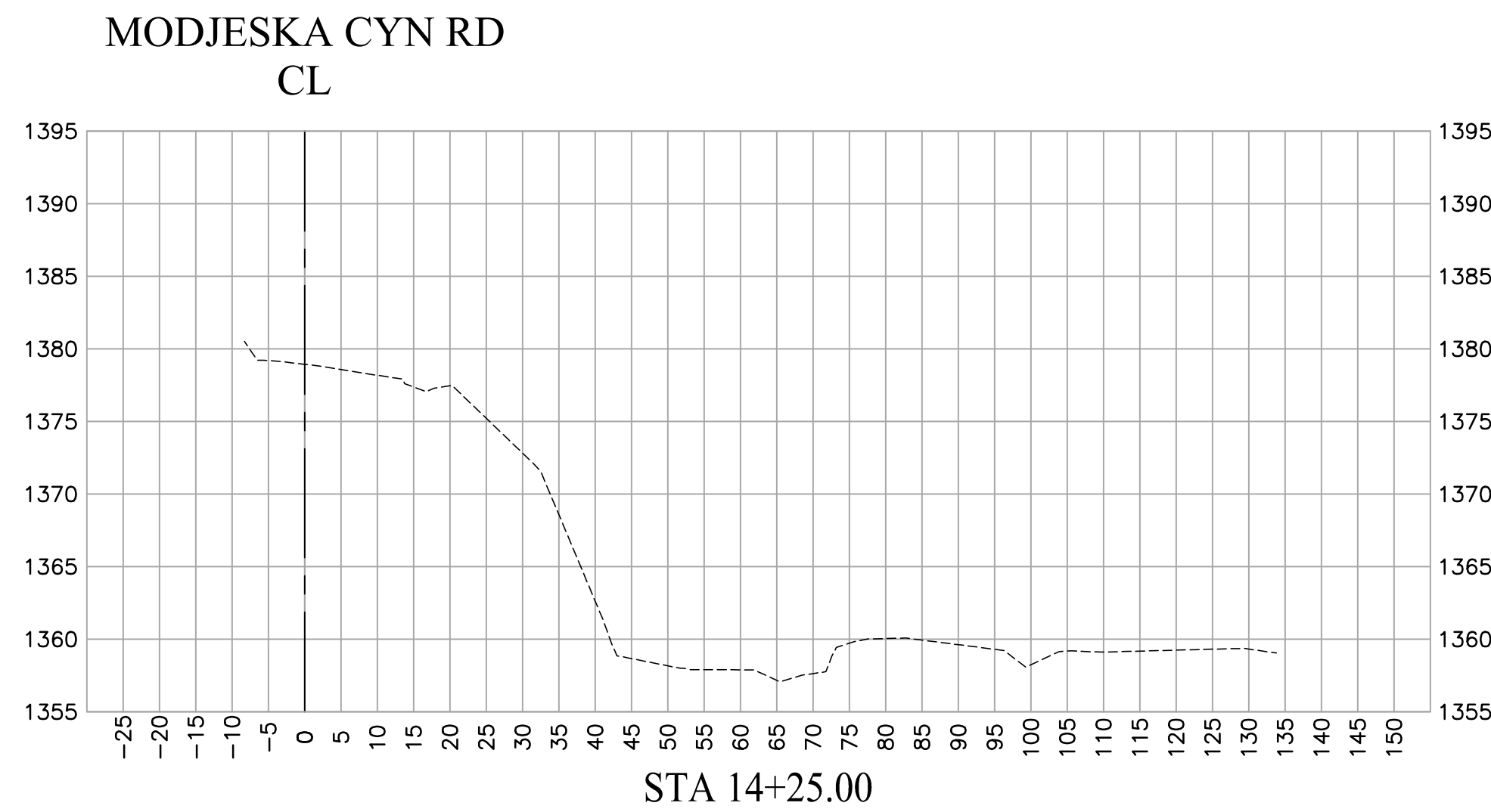
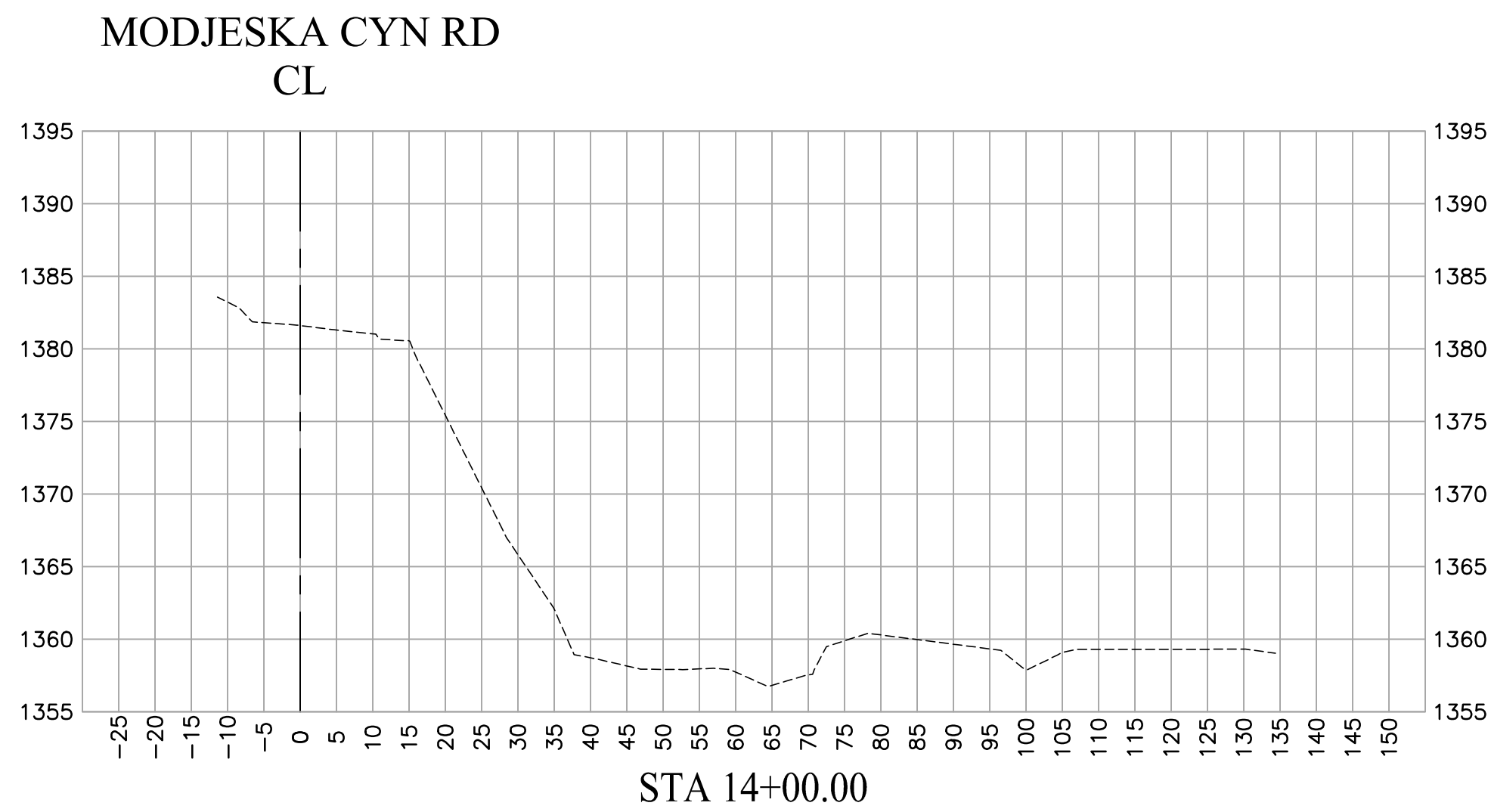
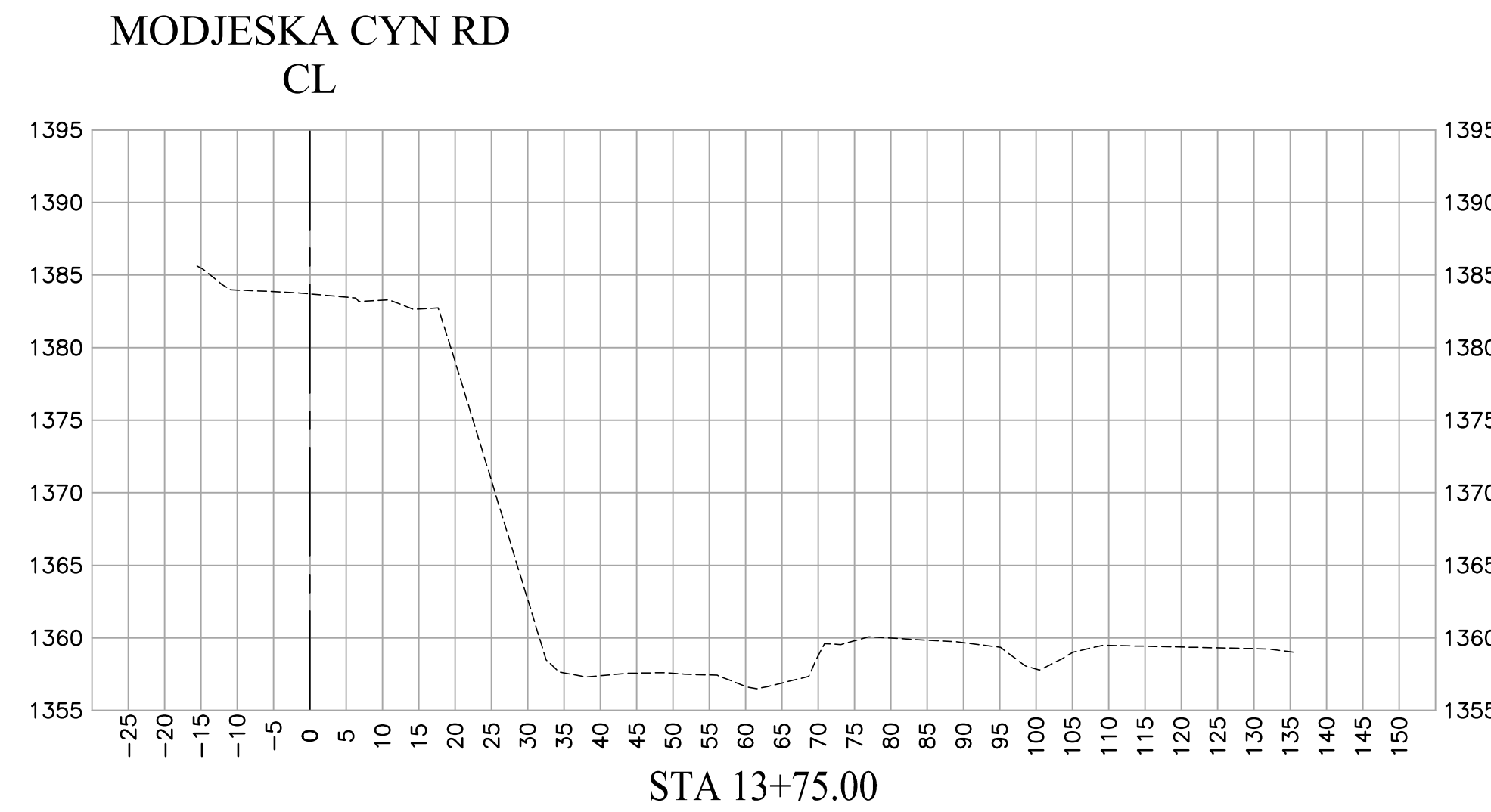
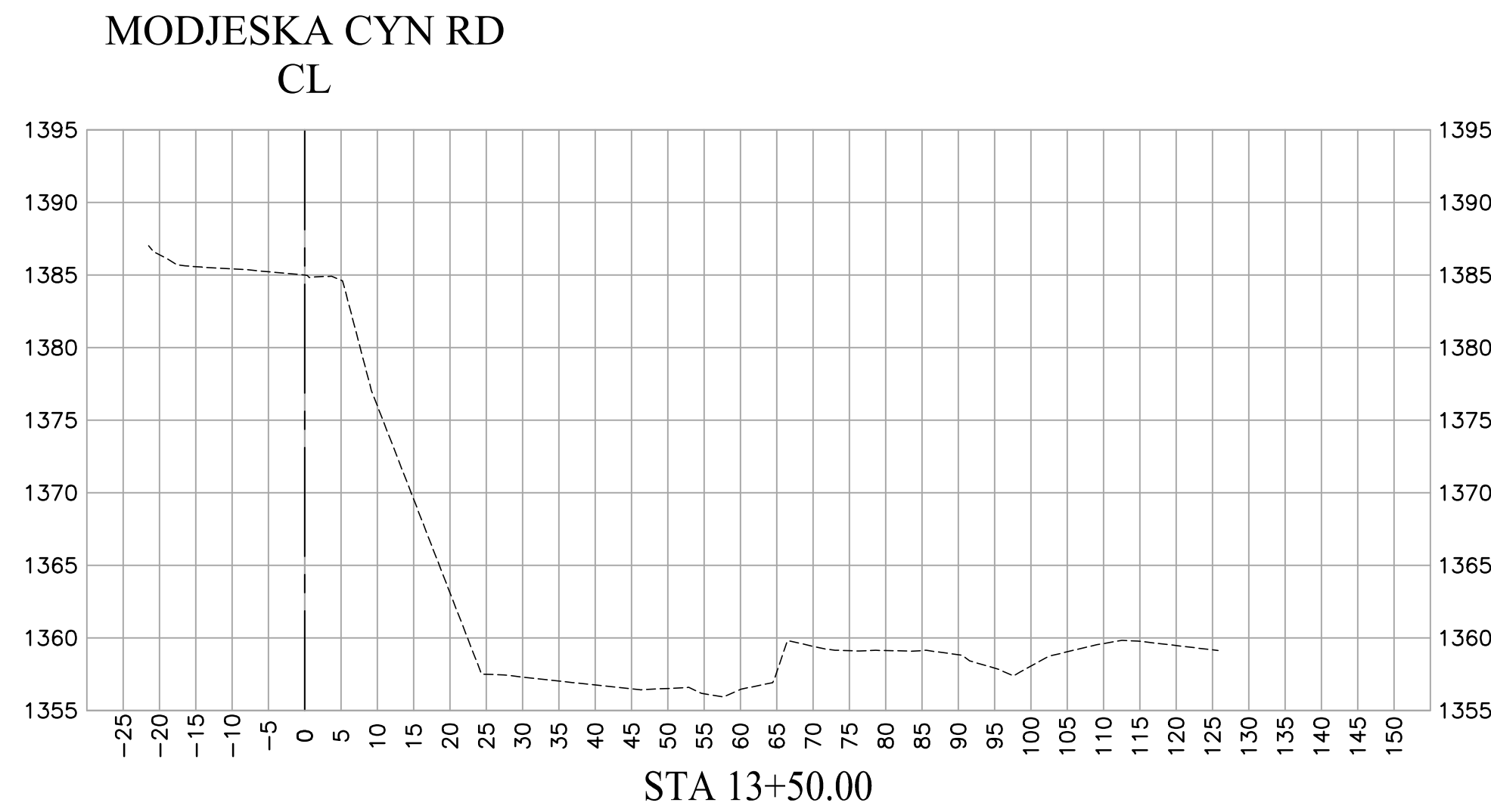
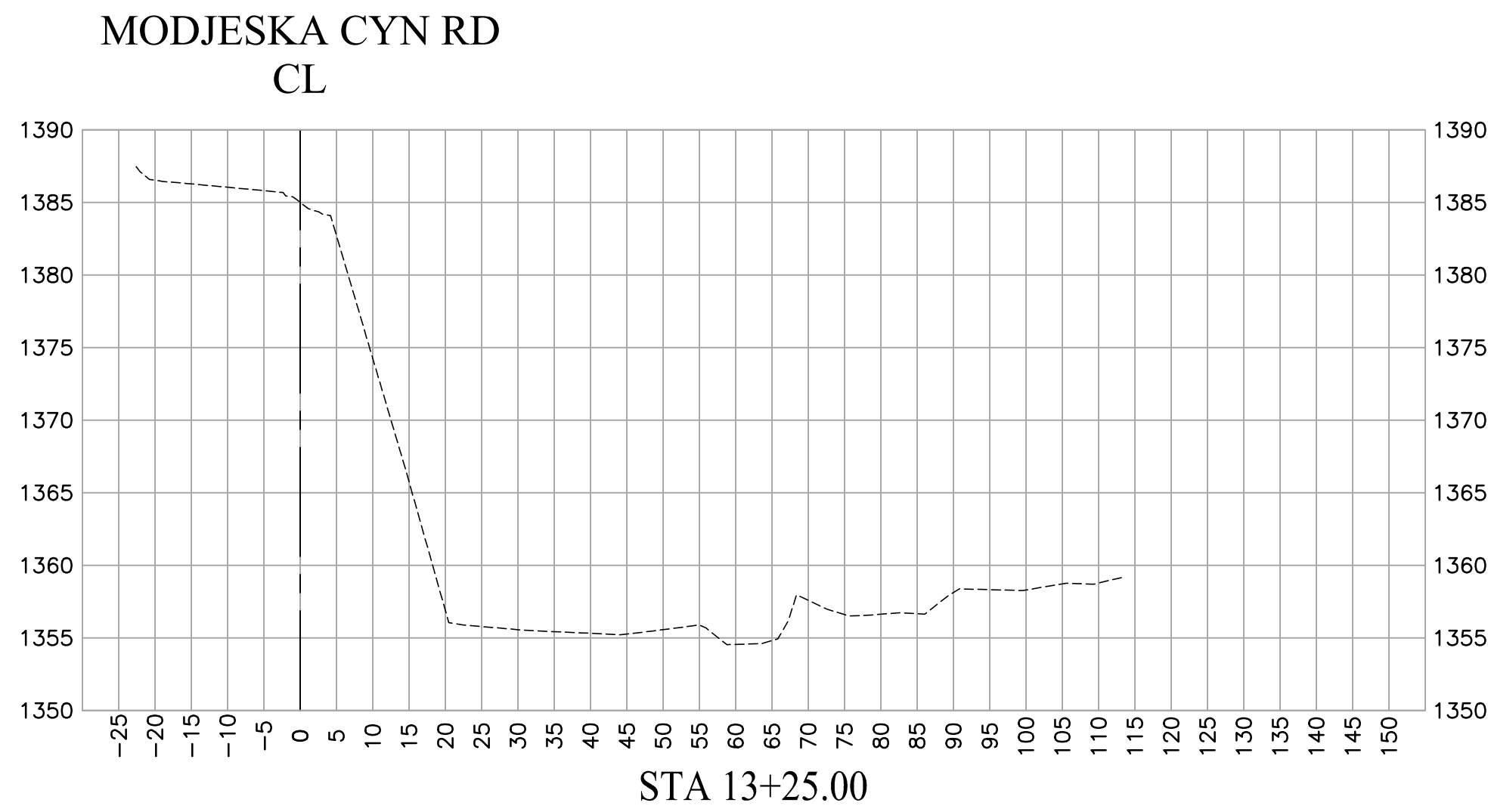
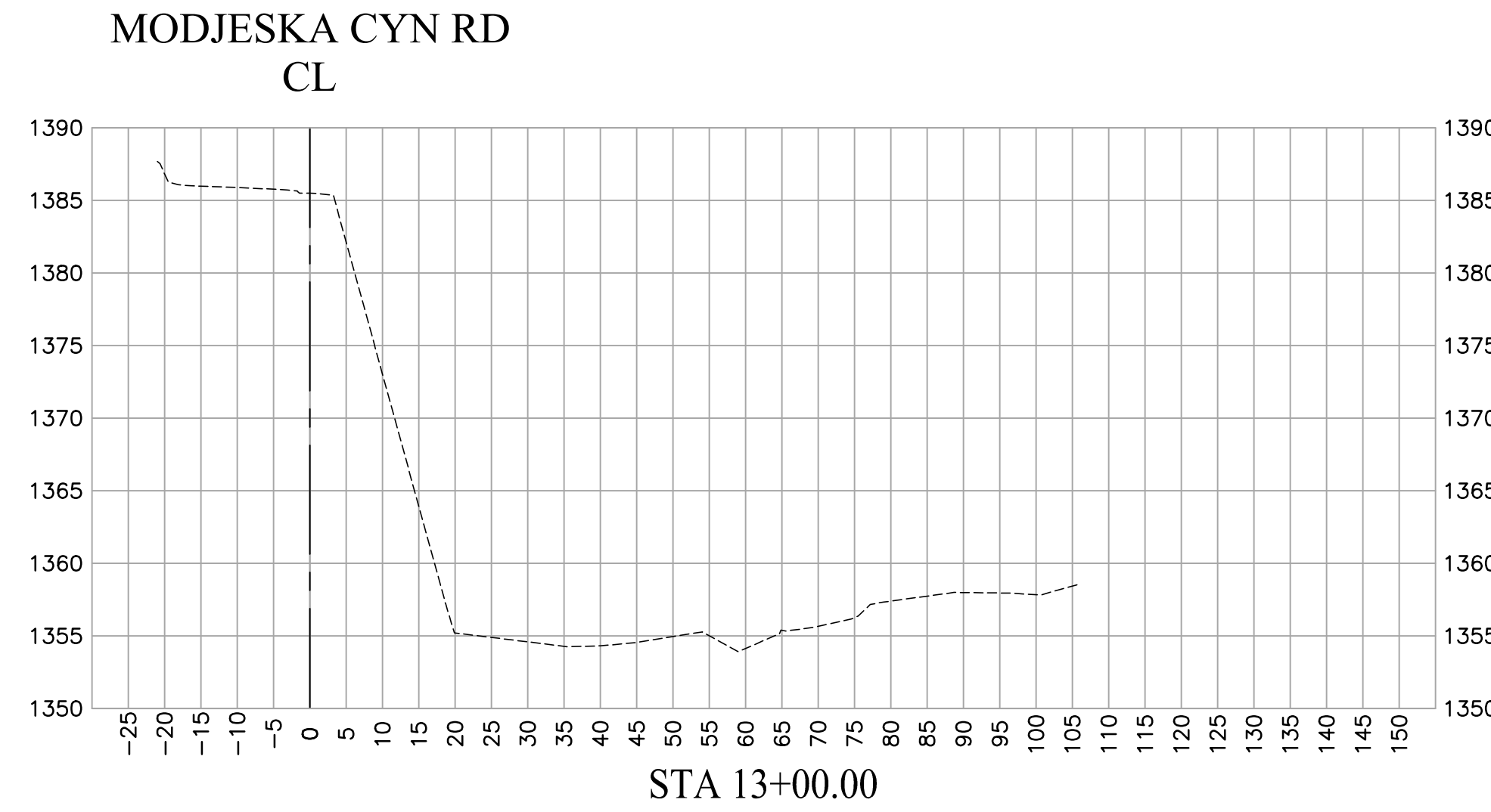
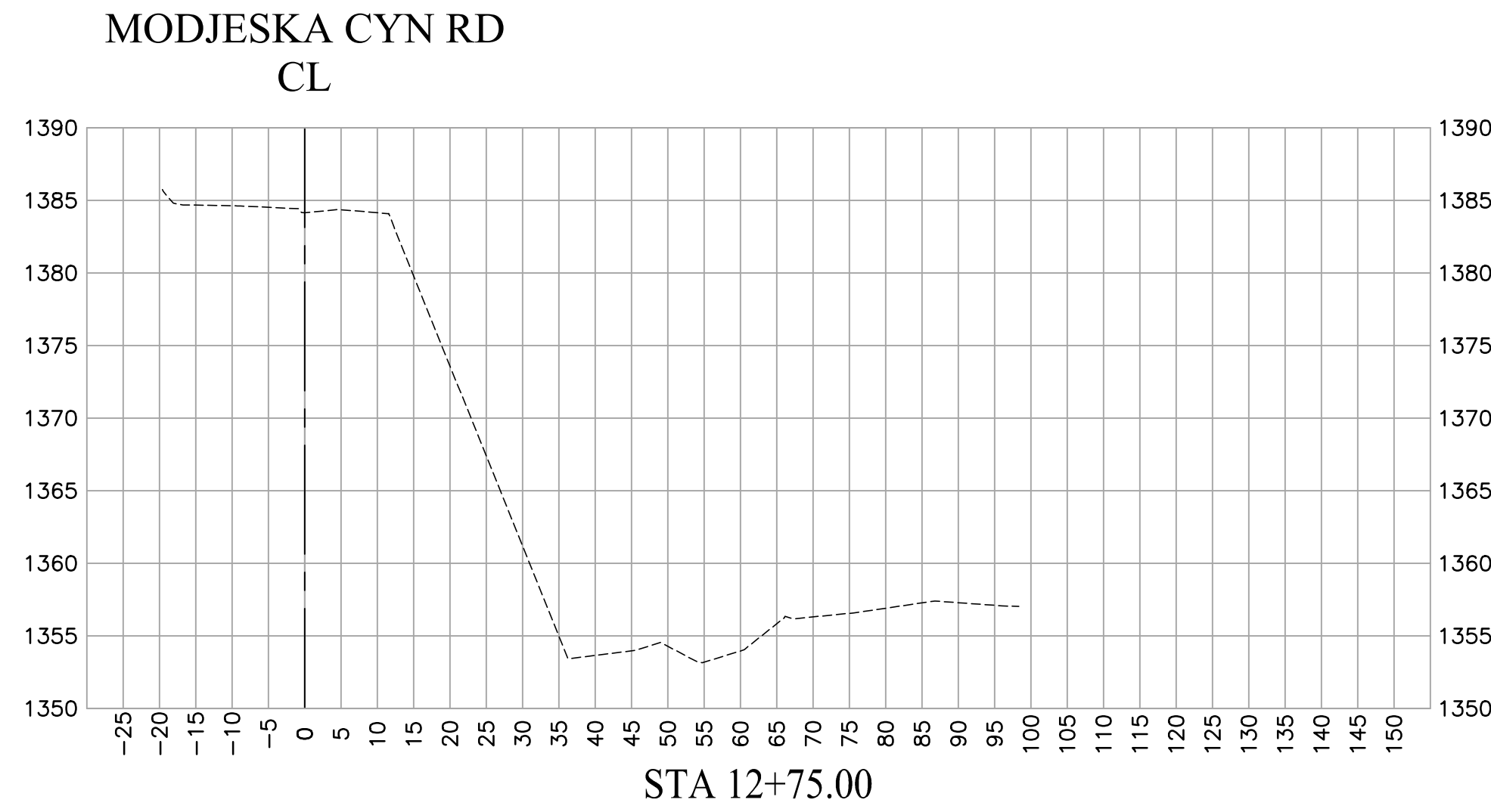
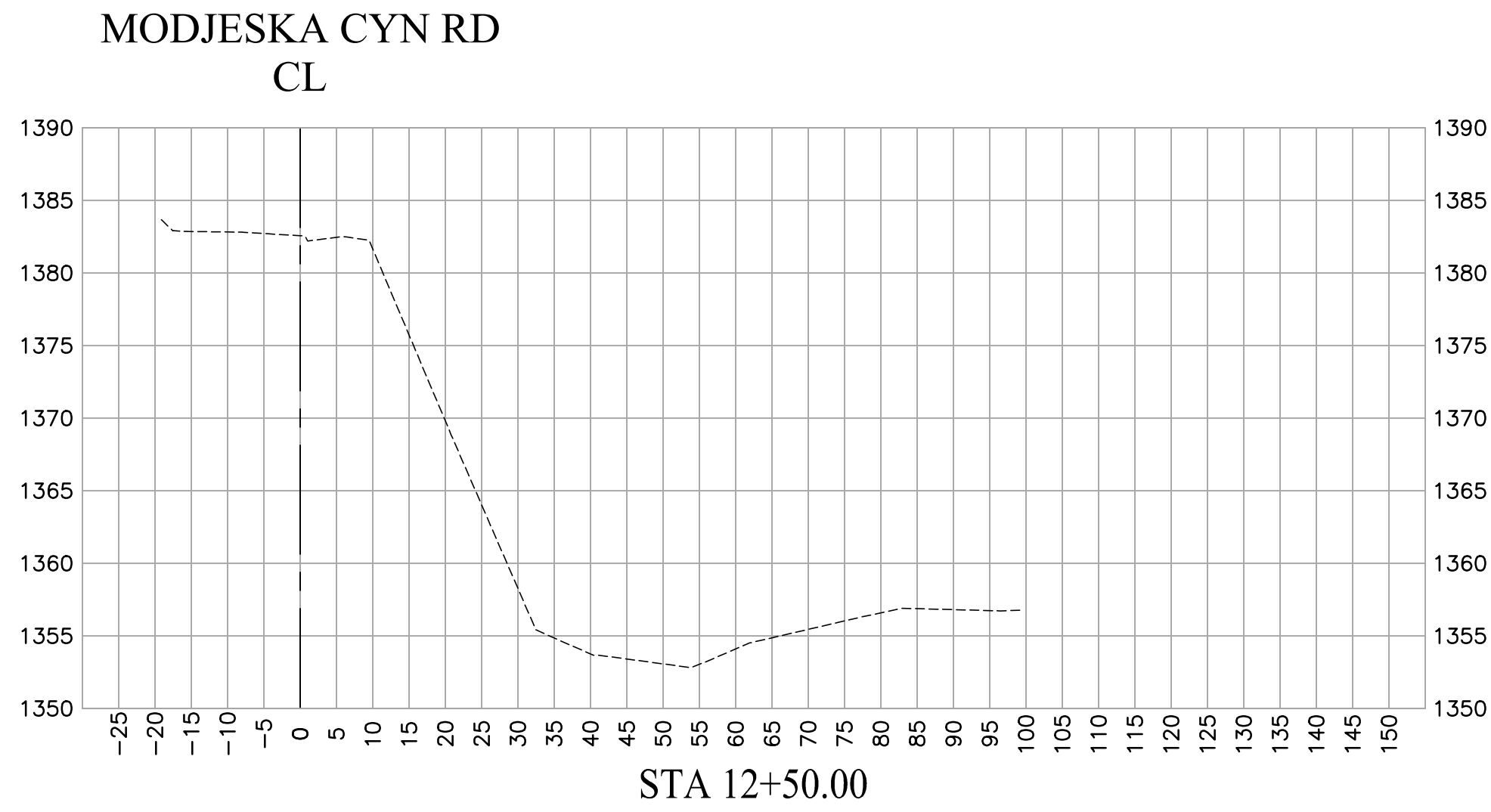
Foot

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			
MODJESKA CANYON ROAD			
SLOPE EROSION PROJECT			
SECTION SHEET			
PROJECT LIMITS: FROM +/- 798' E'LY OF OLIVE HILL RD TO 830' NE'LY OF HARDING			
TRUCK TRAIL			
DATE OF SURVEY: 03/27/2020		BY: R. MACIAS & PARTY	
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-OP0010
FILE: MODJESKA_CYN_RD_SLOPE_EROSION_TOPO_2020.DWG			
MARK	DATE	ITEM	SHEET NO.
REVISIONS			4 of 6



LEGEND

LINE PATTERN KEY

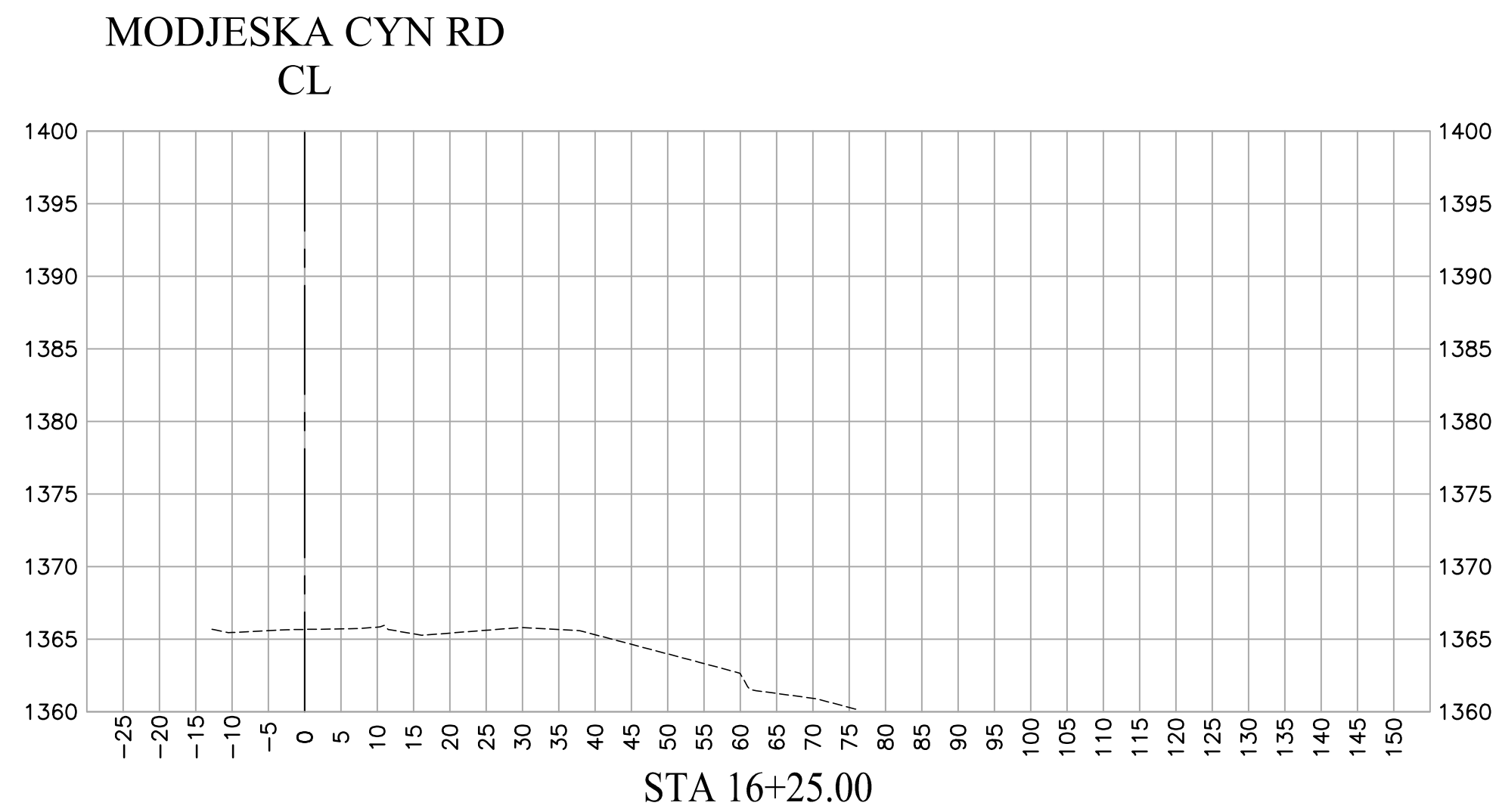
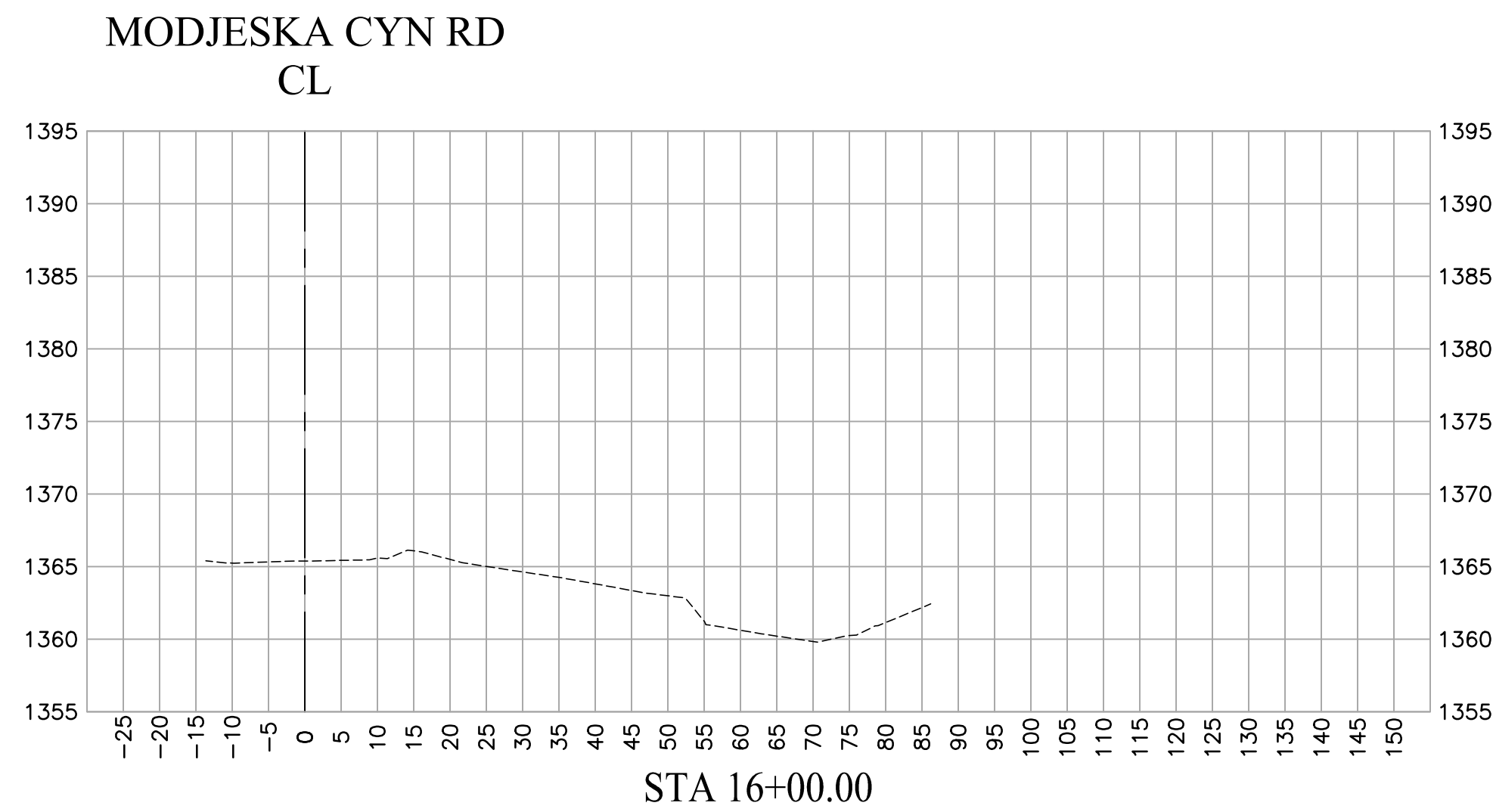
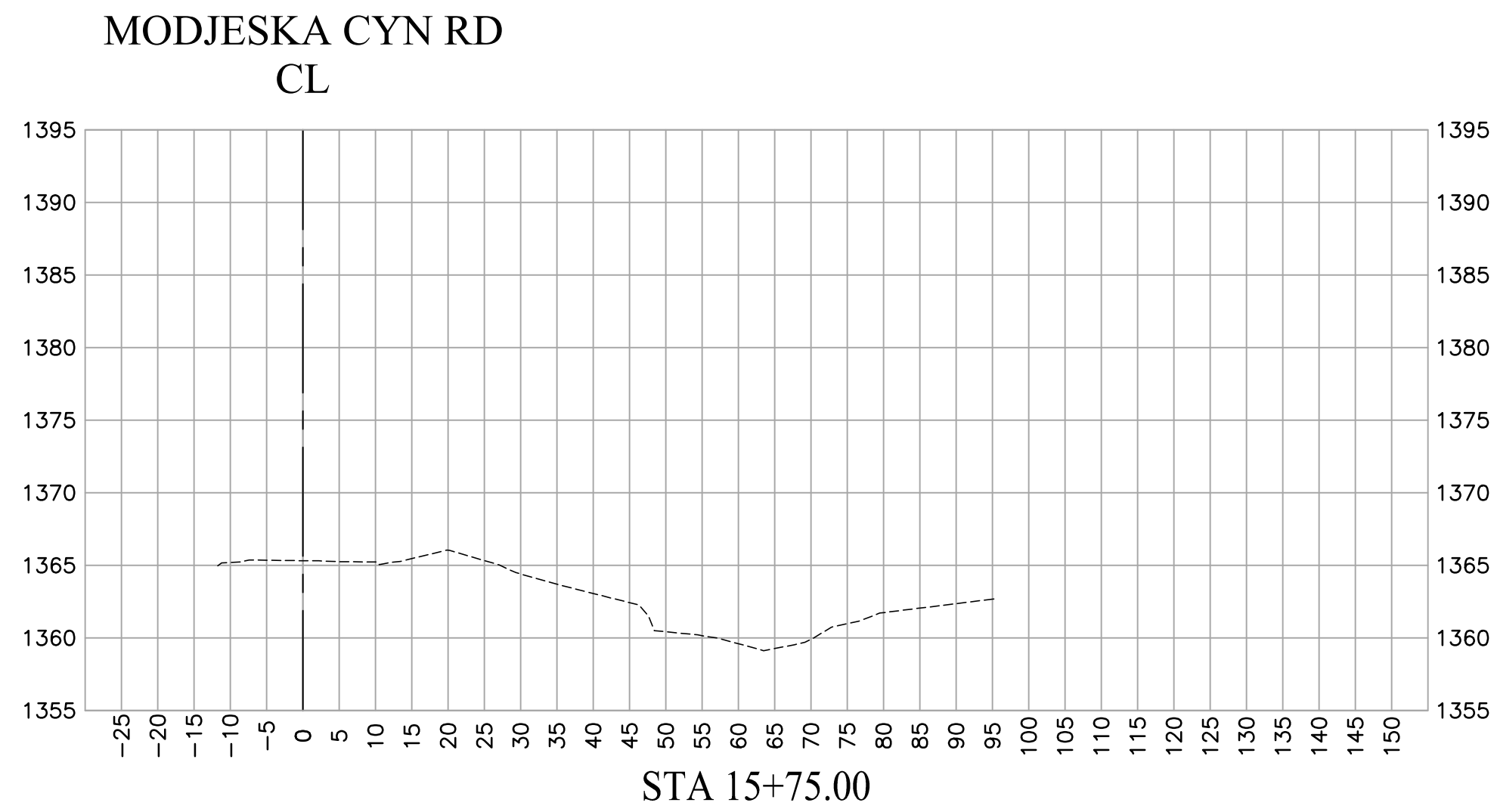
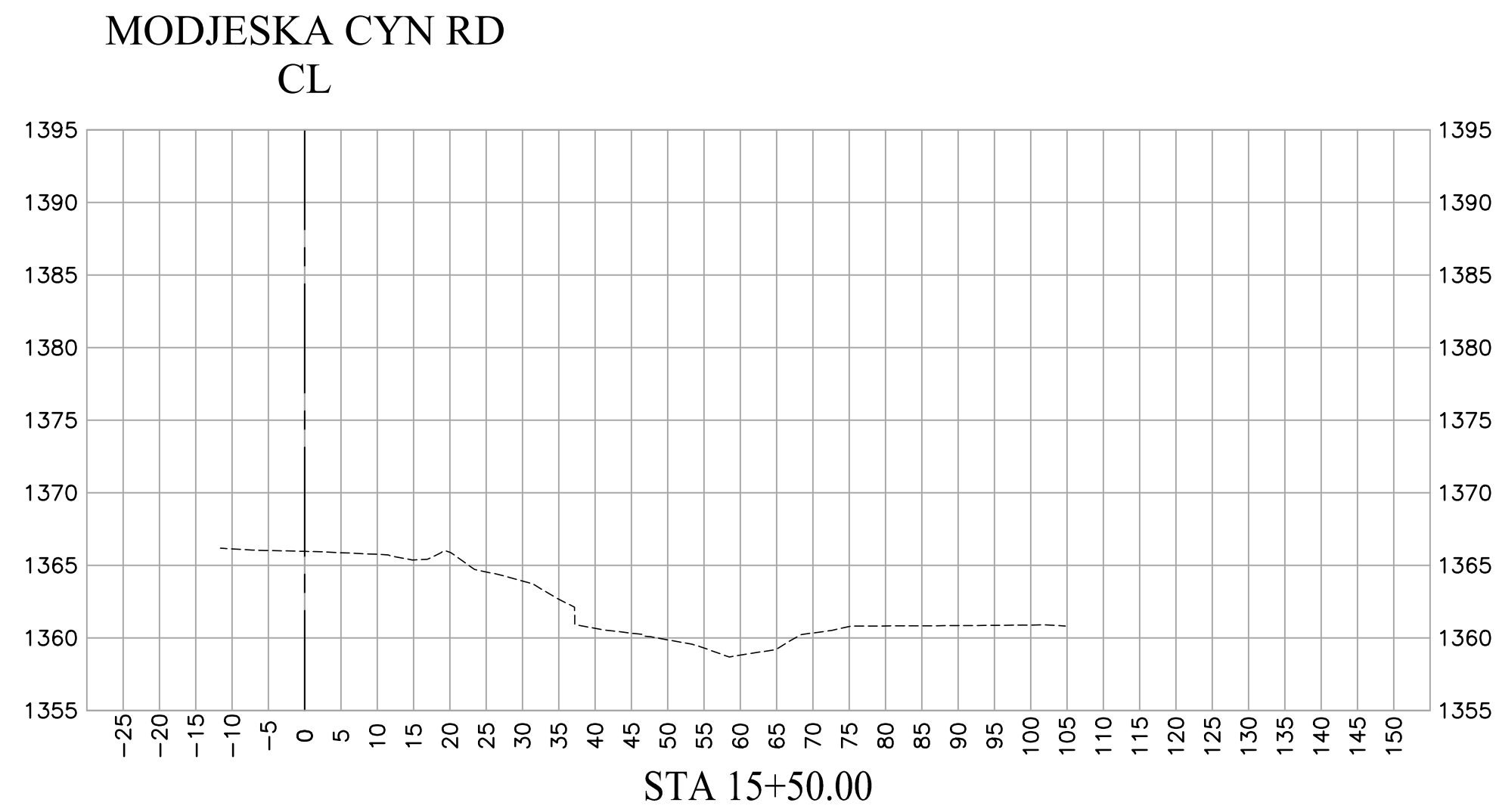
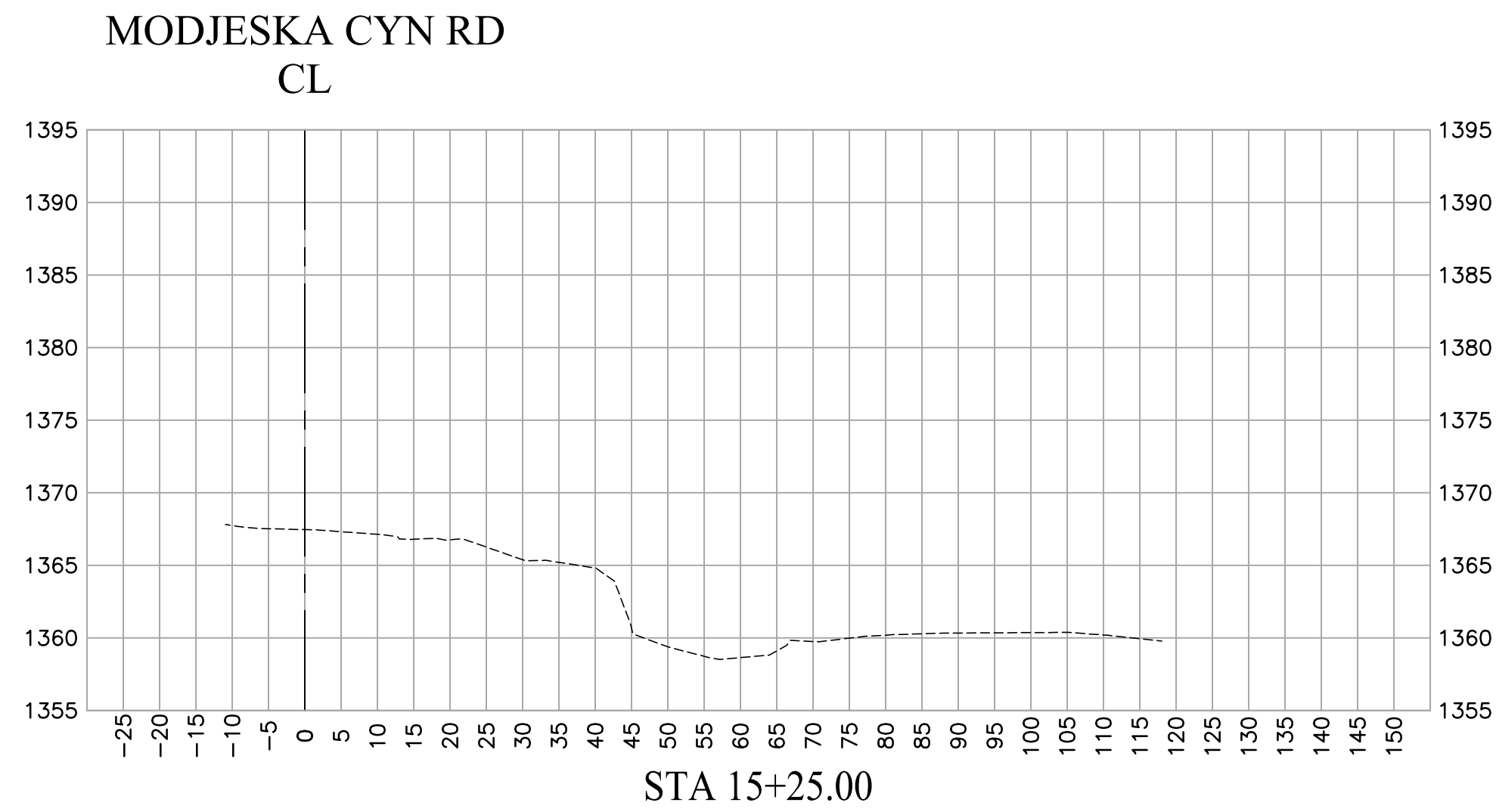
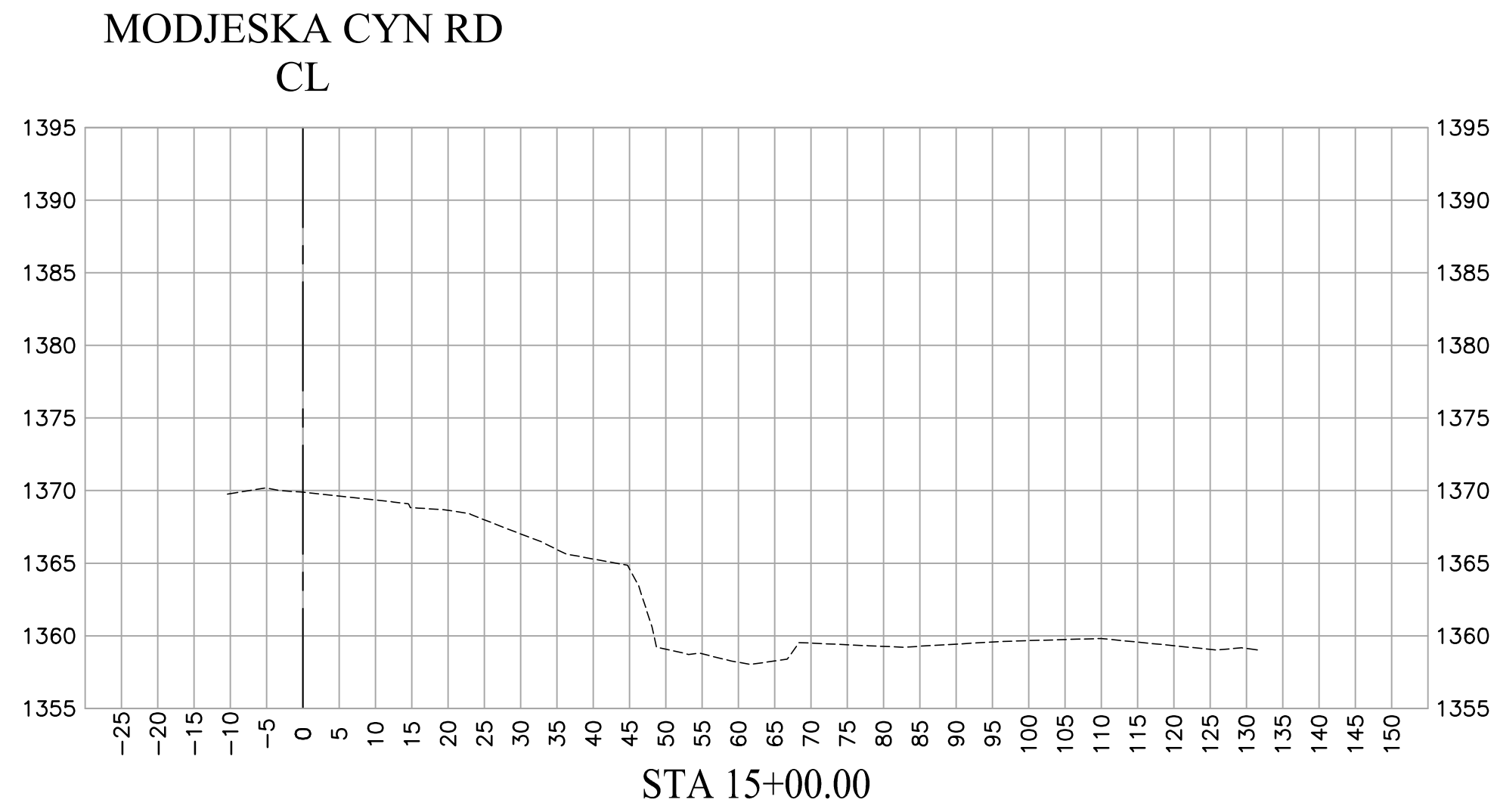
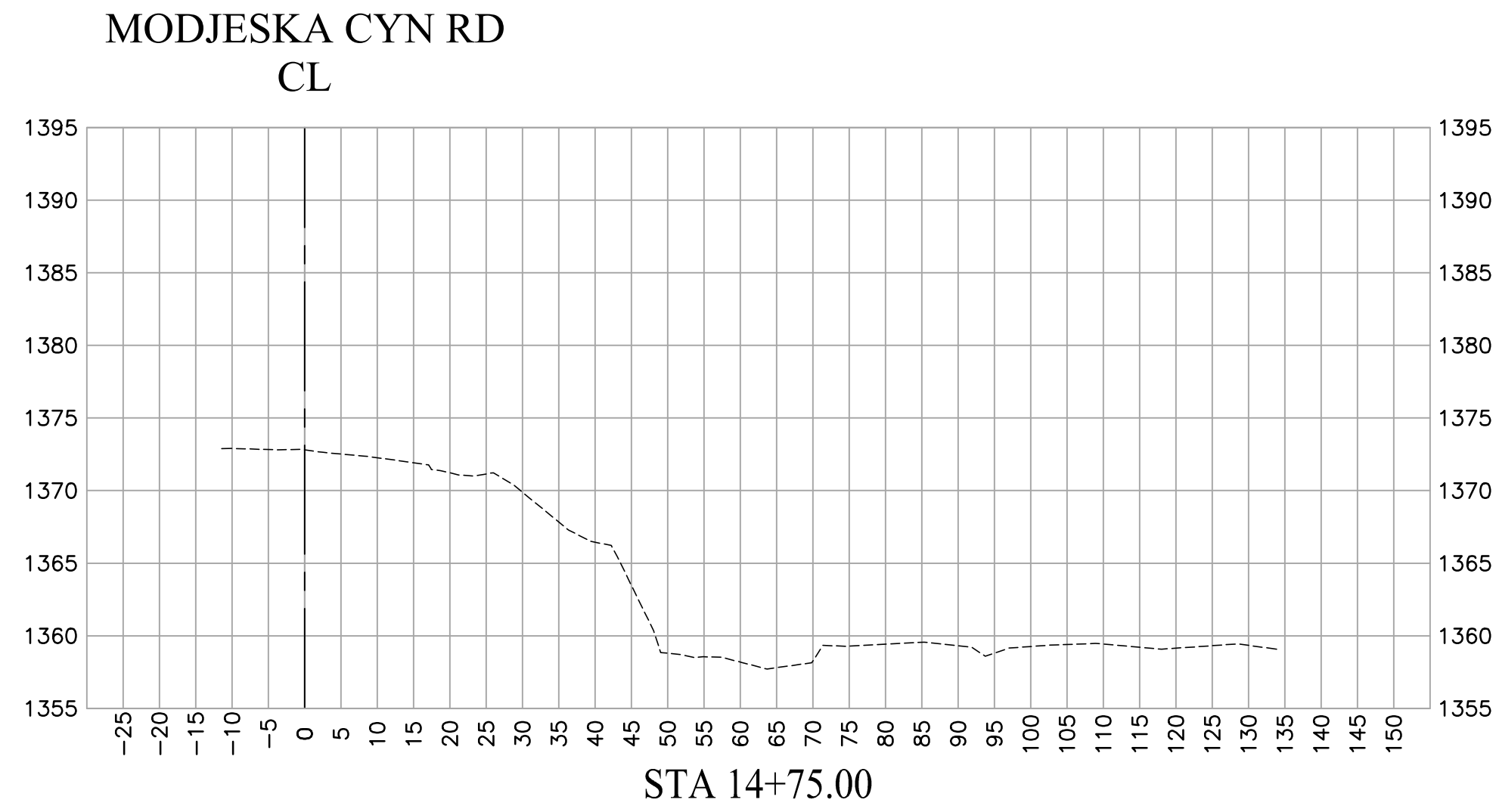
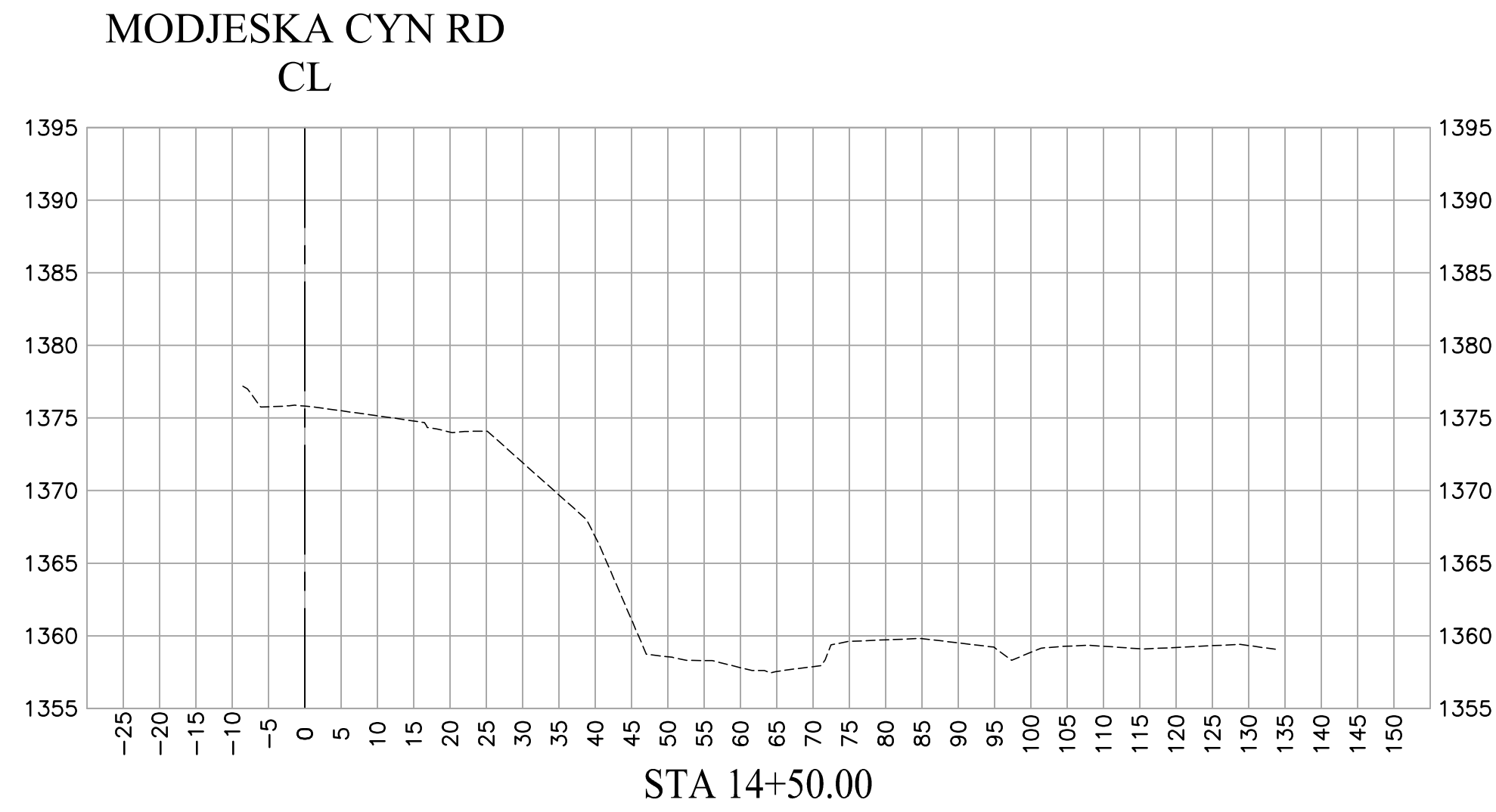
Existing Ground 2020

ALL SECTIONS
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

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			
MODJESKA CANYON ROAD SLOPE EROSION PROJECT			
SECTION SHEET			
PROJECT LIMITS: FROM +/- 798' E'LY OF OLIVE HILL RD TO 830' NE'LY OF HARDING			
TRUCK TRAIL			
DATE OF SURVEY: 03/27/2020		BY: R. MACIAS & PARTY	
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-OP0010
FILE: MODJESKA_CYN_RD_SLOPE_EROSION_TOPO_2020.DWG			
MARK	DATE	ITEM	SHEET NO.
REVISIONS			5 of 6



LEGEND

LINE PATTERN KEY

----- Existing Ground 2020

ALL SECTIONS
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

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			
MODJESKA CANYON ROAD SLOPE EROSION PROJECT			
SECTION SHEET			
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FILE: MODJESKA_CYN_RD_SLOPE_EROSION_TOPO_2020.DWG			
MARK	DATE	ITEM	SHEET NO.
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