

SECTION X: CROSS SECTIONS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0038(48)306	X1	X99

Plotting Date: 01/20/2026

INDEX OF SHEETS

X1	General Layout with Index
X2-X3	Soil Blocks
X4-X99	Cross Sections



BEGIN P-PH 0038(48)306
BEGIN PIPE WORK
Station 334+00.00

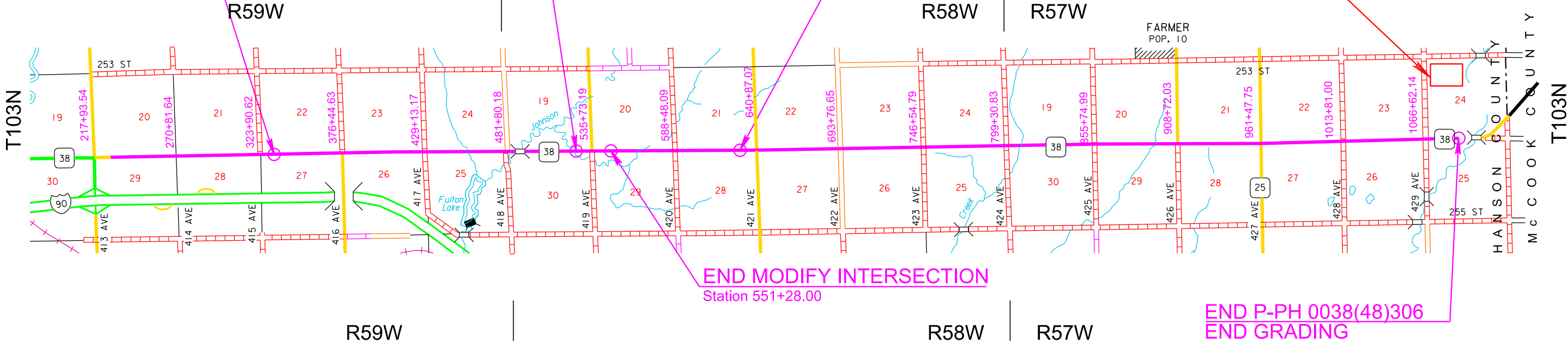
BEGIN MODIFY INTERSECTION
Station 520+18.00

END PIPE WORK
BEGIN GRADING
Station 629+60.00

Option Borrow Pit
N 1/2 of
Sec 24 - T103N - R57W

END MODIFY INTERSECTION
Station 551+28.00

END P-PH 0038(48)306
END GRADING
Station 1082+24.00



Soil Legend

- ①

Clay Silt
- ②

Silt Clay
- ③

Clay
- ④

Sandy Clay
- ⑤

Clay Sand
- ⑥

Silty Sand
- ⑦

Sandy Silt
- ⑧

Sand
- ⑨

Silt
- ⑩

Gravel

The soils information presented is representative of the material encountered at the specific bore hole location.

The Geotechnical Engineering Activity has on file all of the boring logs for this project. These logs and additional results of laboratory tests, if any, are available for review at the Central Office in Pierre.

Water levels encountered in the borings when drilled in Dec. 2020 are annotated on the cross-sections.

Water Level

Hole Number	4	4	4
Station	675+00	675+00	675+00
Offset	7.2'RT	7.2'RT	7.2'RT
Depth, ft	1.9-3.5	3.5-6.0	6.0-10.0
Moisture Depth, ft	2.8	4.0	7.0
Moisture, %	24.6	25.5	21.1
Dry Loose Wt, lbs/cuft	78.8	76.7	76.7
% Passing 3/8	98.9	99.8	100.0
% Passing #4	98.7	99.5	99.7
% Passing #10	97.9	98.6	98.3
% Passing #40	92.4	93.1	91.4
% Passing #200	70.8	74.5	67.2
% Sand	27.0	24.0	31.1
% Silt	41.1	42.6	35.9
% Clay	29.7	31.9	31.3
Liquid Limit	33	39	37
Plastic Limit	18	20	18
Plasticity Index	15	19	19
Soil Color	Gray	Gray	Brown
Textural Class.	Clay Silt	Silt Clay	Sandy Clay
AASHTO Class.	A-6 (9)	A-6 (11)	A-6 (10)

Hole Number	5	5
Station	700+00	700+00
Offset	7.6'RT	7.6'RT
Depth, ft	1.6-4.0	4.0-10.0
Moisture Depth, ft	2.8	6.0
Moisture, %	24.5	24.6
Dry Loose Wt, lbs/cuft	72.7	76.5
% Passing 3/8	100.0	99.5
% Passing #4	99.9	99.3
% Passing #10	99.5	98.6
% Passing #40	95.6	92.5
% Passing #200	74.2	70.6
% Sand	25.3	27.9
% Silt	44.5	38.3
% Clay	29.6	32.3
Liquid Limit	35	38
Plastic Limit	20	18
Plasticity Index	15	20
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Silt Clay
AASHTO Class.	A-6 (10)	A-6 (11)

Hole Number	6	6
Station	730+00	730+00
Offset	7.0'RT	7.0'RT
Depth, ft	1.5-3.4	3.4-10.0
Moisture Depth, ft	2.7	6.0
Moisture, %	30.4	20.0
Dry Loose Wt, lbs/cuft	76.0	77.6
% Passing 3/8	100.0	100.0
% Passing #4	99.9	99.6
% Passing #10	99.2	98.6
% Passing #40	95.0	92.9
% Passing #200	76.8	71.6
% Sand	22.4	26.9
% Silt	43.3	34.4
% Clay	33.5	37.3
Liquid Limit	38	41
Plastic Limit	21	18
Plasticity Index	18	23
Soil Color	Dark Gray	Brown
Textural Class.	Silt Clay	Silt Clay
AASHTO Class.	A-6 (11)	A-7-6 (13)

Hole Number	7	7
Station	765+00	765+00
Offset	6.4'RT	6.4'RT
Depth, ft	1.7-3.5	3.5-10.0
Moisture Depth, ft	3.0	6.0
Moisture, %	30.7	24.0
Dry Loose Wt, lbs/cuft	75.6	73.8
% Passing 3/8	100.0	100.0
% Passing #4	99.9	100.0
% Passing #10	99.6	99.8
% Passing #40	95.5	96.1
% Passing #200	77.9	79.6
% Sand	21.6	20.2
% Silt	46.3	39.9
% Clay	31.7	39.7
Liquid Limit	36	39
Plastic Limit	20	18
Plasticity Index	16	20
Soil Color	Dark Gray	Brown
Textural Class.	Silt Clay	Silt Clay
AASHTO Class.	A-6 (11)	A-6 (12)

Hole Number	8	8
Station	780+00	780+00
Offset	7.0'RT	7.0'RT
Depth, ft	1.7-3.5	3.5-10.0
Moisture Depth, ft	3.0	6.0
Moisture, %	24.5	20.4
Dry Loose Wt, lbs/cuft	79.2	79.0
% Passing 3/8	99.0	99.4
% Passing #4	98.9	99.2
% Passing #10	98.0	98.6
% Passing #40	91.8	94.4
% Passing #200	70.8	72.6
% Sand	27.2	26.0
% Silt	39.6	39.3
% Clay	31.2	33.3
Liquid Limit	36	38
Plastic Limit	19	19
Plasticity Index	17	18
Soil Color	Dark Gray	Brown
Textural Class.	Silt Clay	Silt Clay
AASHTO Class.	A-6 (10)	A-6 (11)

Hole Number	9	9
Station	803+00	803+00
Offset	6.4'RT	6.4'RT
Depth, ft	1.7-3.6	3.6-6.0
Moisture Depth, ft	3.0	7.0
Moisture, %	20.8	19.1
Dry Loose Wt, lbs/cuft	78.7	76.7
% Passing 3/8	97.6	99.3
% Passing #4	96.9	98.5
% Passing #10	95.1	96.8
% Passing #40	85.1	85.1
% Passing #200	60.4	59.9
% Sand	34.7	36.9
% Silt	32.0	32.8
% Clay	28.3	27.1
Liquid Limit	35	37
Plastic Limit	19	18
Plasticity Index	16	18
Soil Color	Brown	Brown
Textural Class.	Clay Sand	Clay Sand
AASHTO Class.	A-6 (8)	A-6 (8)

Hole Number	10	10
Station	825+00	825+00
Offset	7.0'RT	7.0'RT
Depth, ft	1.5-3.3	3.3-10.0
Moisture Depth, ft	2.8	5.0
Moisture, %	19.7	20.8
Dry Loose Wt, lbs/cuft	78.7	74.7
% Passing 3/8	95.8	98.2
% Passing #4	95.3	97.9
% Passing #10	94.4	96.7
% Passing #40	87.0	88.8
% Passing #200	59.5	64.2
% Sand	34.9	32.4
% Silt	31.1	31.4
% Clay	28.3	32.9
Liquid Limit	37	38
Plastic Limit	18	18
Plasticity Index	19	21
Soil Color	Brown	Brown
Textural Class.	Clay Sand	Sandy Clay
AASHTO Class.	A-6 (8)	A-6 (10)

Hole Number	11	11
Station	850+00	850+00
Offset	6.8'RT	6.8'RT
Depth, ft	1.4-4.0	4.0-10.0
Moisture Depth, ft	3.0	6.0
Moisture, %	31.2	23.1
Dry Loose Wt, lbs/cuft	74.7	76.3
% Passing 3/8	99.9	98.9
% Passing #4	99.4	98.2
% Passing #10	98.7	97.0
% Passing #40	92.7	90.8
% Passing #200	71.5	71.7
% Sand	27.2	25.3
% Silt	39.6	30.9
% Clay	32.0	40.7
Liquid Limit	36	48
Plastic Limit	21	20
Plasticity Index	15	28
Soil Color	Brown	Gray
Textural Class.	Silt Clay	Silt Clay
AASHTO Class.	A-6 (9)	A-7-6 (16)

Hole Number	12	12
Station	875+00	875+00
Offset	7.0'RT	7.0'RT
Depth, ft	1.5-3.5	3.5-10.0
Moisture Depth, ft	3.0	6.0
Moisture, %	31.4	21.4
Dry Loose Wt, lbs/cuft	73.8	74.1
% Passing 3/8	99.4	100.0
% Passing #4	98.8	99.9
% Passing #10	98.0	99.0
% Passing #40	92.5	92.6
% Passing #200	71.2	65.5
% Sand	26.8	33.5
% Silt	43.8	32.4
% Clay	27.4	33.1
Liquid Limit	36	35
Plastic Limit	20	17
Plasticity Index	15	19
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Sandy Clay
AASHTO Class.	A-6 (9)	A-6 (10)

Hole Number	13	13
Station	900+00	900+00
Offset	6.8'RT	6.8'RT
Depth, ft	1.4-3.6	3.6-10.0
Moisture Depth, ft	2.8	7.0
Moisture, %	26.9	21.1
Dry Loose Wt, lbs/cuft	75.8	76.3
% Passing 3/8	100.0	100.0
% Passing #4	99.9	99.9
% Passing #10	99.3	98.6
% Passing #40	94.6	89.0
% Passing #200	72.5	61.7
% Sand	26.8	37.0
% Silt	40.3	31.7
% Clay	32.2	30.0
Liquid Limit	35	32
Plastic Limit	19	17
Plasticity Index	15	15
Soil Color	Dark Gray	Brown
Textural Class.	Silt Clay	Clay Sand
AASHTO Class.	A-6 (10)	A-6 (7)

Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X2	X99

Hole Number	1	1
Station	530+00	530+00
Offset	15.2'RT	15.2'RT
Depth, ft	1.2-3.4	3.4-10.0
Moisture Depth, ft	2.8	7.0
Moisture, %	17.2	18.7
Dry Loose Wt, lbs/cuft	83.9	76.4
% Passing 3/8	98.9	99.0
% Passing #4	98.1	98.3
% Passing #10	96.4	96.8
% Passing #40	79.4	88.1
% Passing #200	42.9	62.1
% Sand	53.5	34.7
% Silt	25.2	34.6
% Clay	17.7	27.5
Liquid Limit	26	34
Plastic Limit	16	17
Plasticity Index	10	17
Soil Color	Dark Gray	Brown
Textural Class.	Silty Sand	Clay Silt
AASHTO Class.	A-4 (2)	A-6 (8)

Hole Number	2	2	2
Station	540+00	540+00	540+00
Offset	14.2'LT	14.2'LT	14.2'LT
Depth, ft	1.3-3.3	3.3-6.0	6.0-10.0
Moisture Depth, ft	2.4	6.0	8.0
Moisture, %	15.3	21.0	21.0
Dry Loose Wt, lbs/cuft	83.2	80.9	75.4
% Passing 3/8	97.7	96.6	100.0
% Passing #4	96.4	95.2	99.4
% Passing #10	94.5	91.5	98.0
% Passing #40	83.0	76.7	89.2
% Passing #200	48.6	47.6	58.8
% Sand	45.9	43.9	39.2
% Silt	26.5	24.4	32.9
% Clay	22.1	23.2	25.9
Liquid Limit	29	33	32
Plastic Limit	16	17	16
Plasticity Index	13	16	16
Soil Color	Brown	Brown	Brown
Textural Class.	Clay Sand	Clay Sand	Clay Sand
AASHTO Class.	A-6 (4)	A-6 (5)	A-6 (7)

Hole Number	3	3	3
Station	650+00	650+00	650+00
Offset	8.6'RT	8.6'RT	8.6'RT
Depth, ft	1.7-3.1	3.1-5.0	5.0-10.0
Moisture Depth, ft	2.7	4.5	8.0
Moisture, %	18.8	27.8	23.7
Dry Loose Wt, lbs/cuft	81.2	77.5	76.9
% Passing 3/8	96.4	98.6	99.3
% Passing #4	95.4	98.0	98.7
% Passing #10	93.3	96.8	97.3
% Passing #40	83.1	90.4	91.2
% Passing #200	57.7	68.5	71.2
% Sand	35.6	28.3	26.1
% Silt	31.2	36.2	35.8
% Clay	26.5	32.3	35.4
Liquid Limit	33	37	39
Plastic Limit	17	18	18
Plasticity Index	16	19	21
Soil Color	Brown	Brown	Brown
Textural Class.	Clay Sand	Sandy Clay	Silt Clay
AASHTO Class.	A-6 (7)	A-6 (10)	A-6 (12)

Hole Number	14	14
Station	925+00	925+00
Offset	6.4'RT	6.4'RT
Depth, ft	1.8-3.9	3.9-10.0
Moisture Depth, ft	3.0	7.0
Moisture, %	24.9	20.7
Dry Loose Wt, lbs/cuft	73.2	77.6
% Passing 3/8	100.0	99.6
% Passing #4	99.9	98.9
% Passing #10	99.3	97.4
% Passing #40	94.4	89.7
% Passing #200	66.7	65.4
% Sand	32.6	32.0
% Silt	38.5	33.8
% Clay	28.2	31.6
Liquid Limit	32	36
Plastic Limit	18	18
Plasticity Index	13	18
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Sandy Clay
AASHTO Class.	A-6 (8)	A-6 (9)

Hole Number	15	15
Station	950+00	950+00
Offset	7.4'RT	7.4'RT
Depth, ft	1.8-3.9	3.9-10.0
Moisture Depth, ft	2.8	8.0
Moisture, %	33.7	21.1
Dry Loose Wt, lbs/cuft	73.6	75.9
% Passing 3/8	99.7	100.0
% Passing #4	99.6	99.9
% Passing #10	98.9	98.8
% Passing #40	94.1	93.3
% Passing #200	76.5	71.7
% Sand	22.4	27.1
% Silt	46.5	41.1
% Clay	30.1	30.6
Liquid Limit	34	36
Plastic Limit	20	18
Plasticity Index	14	18
Soil Color	Dark Gray	Dark Gray
Textural Class.	Clay Silt	Silt Clay
AASHTO Class.	A-6 (10)	A-6 (10)

Hole Number	16	16
Station	967+00	967+00
Offset	7.6'RT	7.6'RT
Depth, ft	1.9-3.9	3.9-10.0
Moisture Depth, ft	3.0	7.0
Moisture, %	21.8	25.6
Dry Loose Wt, lbs/cuft	77.4	73.2
% Passing 3/8	95.2	99.8
% Passing #4	95.2	99.7
% Passing #10	94.6	98.9
% Passing #40	88.7	94.5
% Passing #200	66.6	78.7
% Sand	28.0	20.2
% Silt	39.2	46.1
% Clay	27.4	32.6
Liquid Limit	34	35
Plastic Limit	19	19
Plasticity Index	15	16
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Silt Clay
AASHTO Class.	A-6 (8)	A-6 (11)

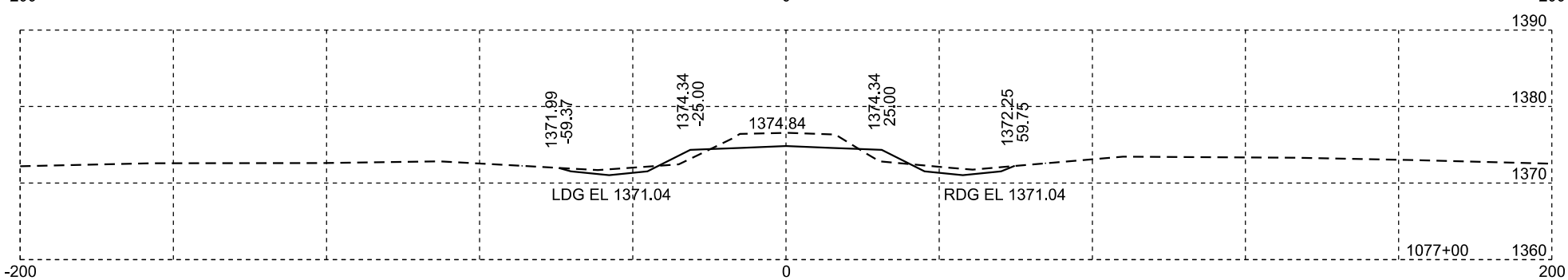
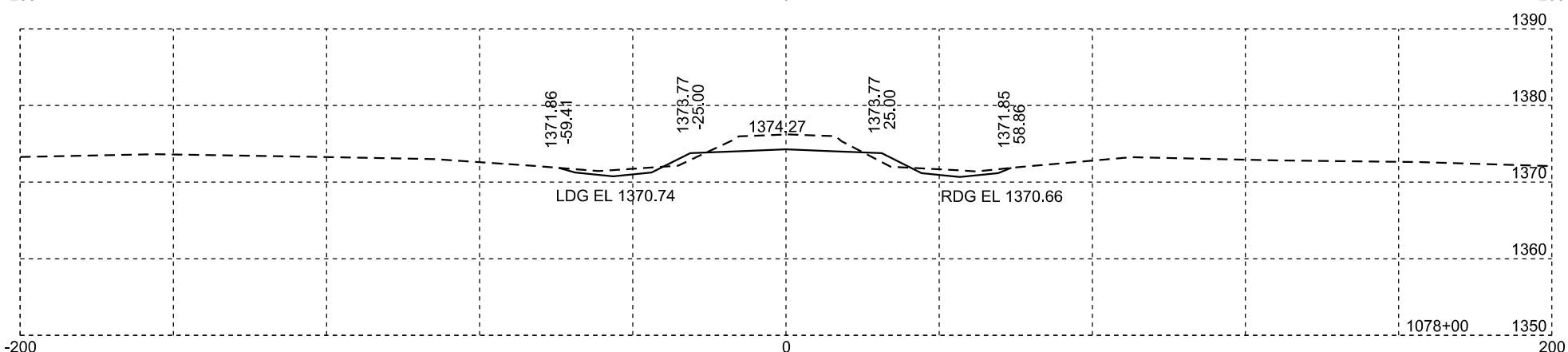
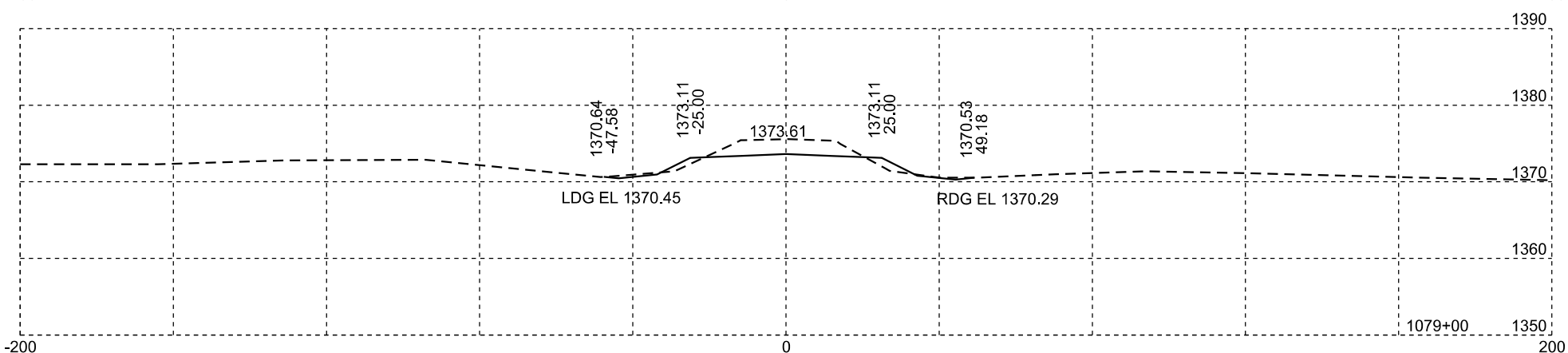
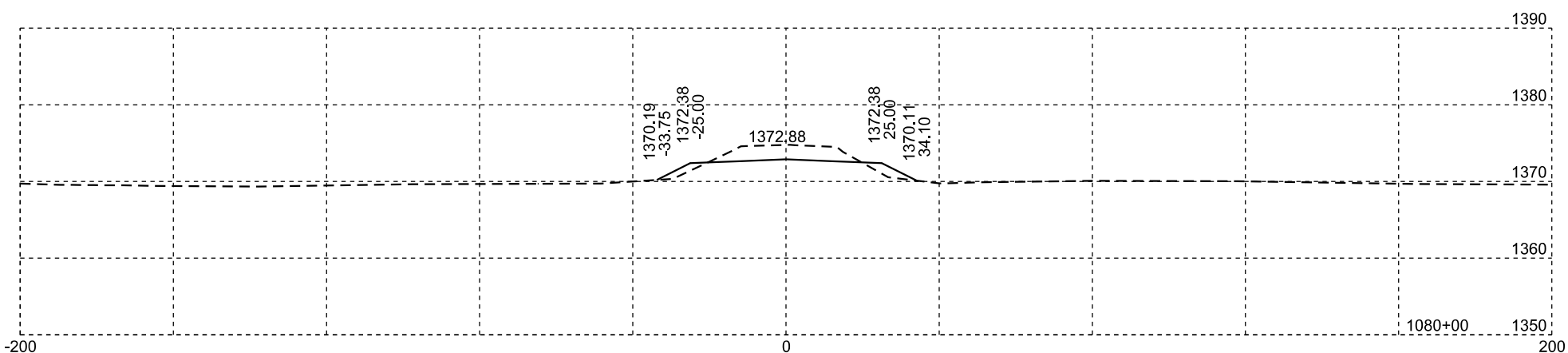
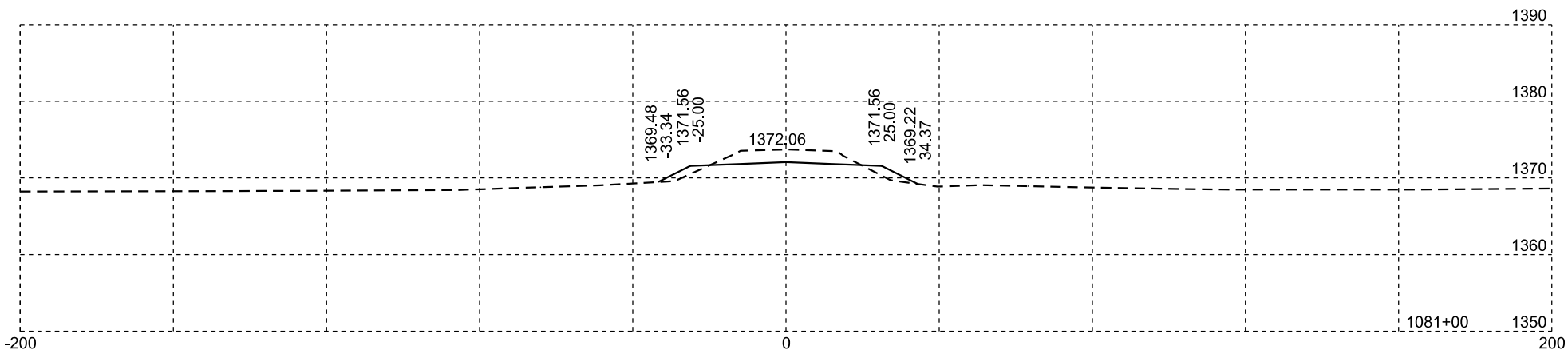
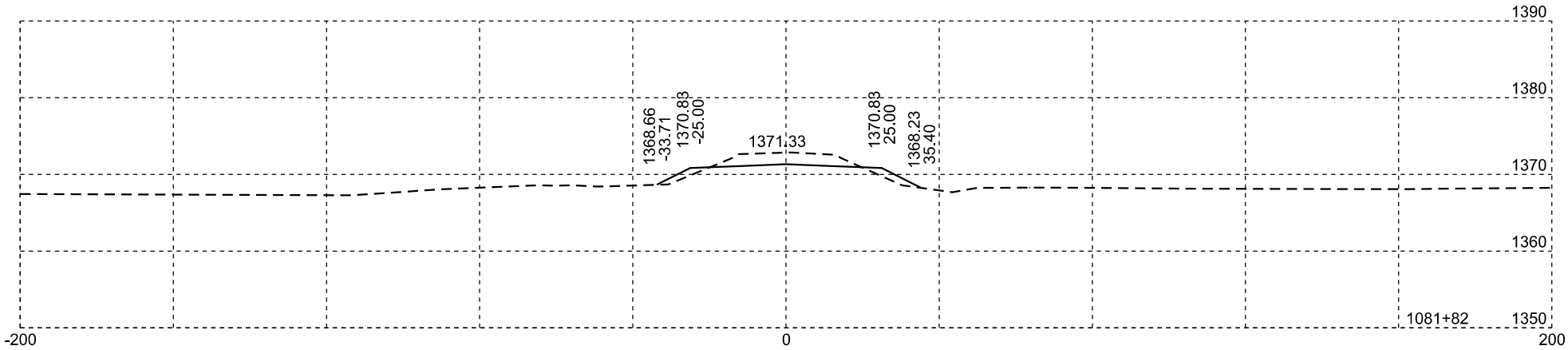
Hole Number	17	17
Station	980+00	980+00
Offset	7.0'RT	7.0'RT
Depth, ft	1.6-3.6	3.6-10.0
Moisture Depth, ft	3.0	6.0
Moisture, %	22.2	22.9
Dry Loose Wt, lbs/cuft	74.8	78.0
% Passing 3/8	97.6	99.7
% Passing #4	97.0	99.5
% Passing #10	96.3	98.6
% Passing #40	91.2	93.0
% Passing #200	71.5	63.6
% Sand	24.8	35.0
% Silt	41.6	38.9
% Clay	29.9	24.6
Liquid Limit	34	31
Plastic Limit	19	17
Plasticity Index	15	14
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Clay Silt
AASHTO Class.	A-6 (9)	A-6 (7)

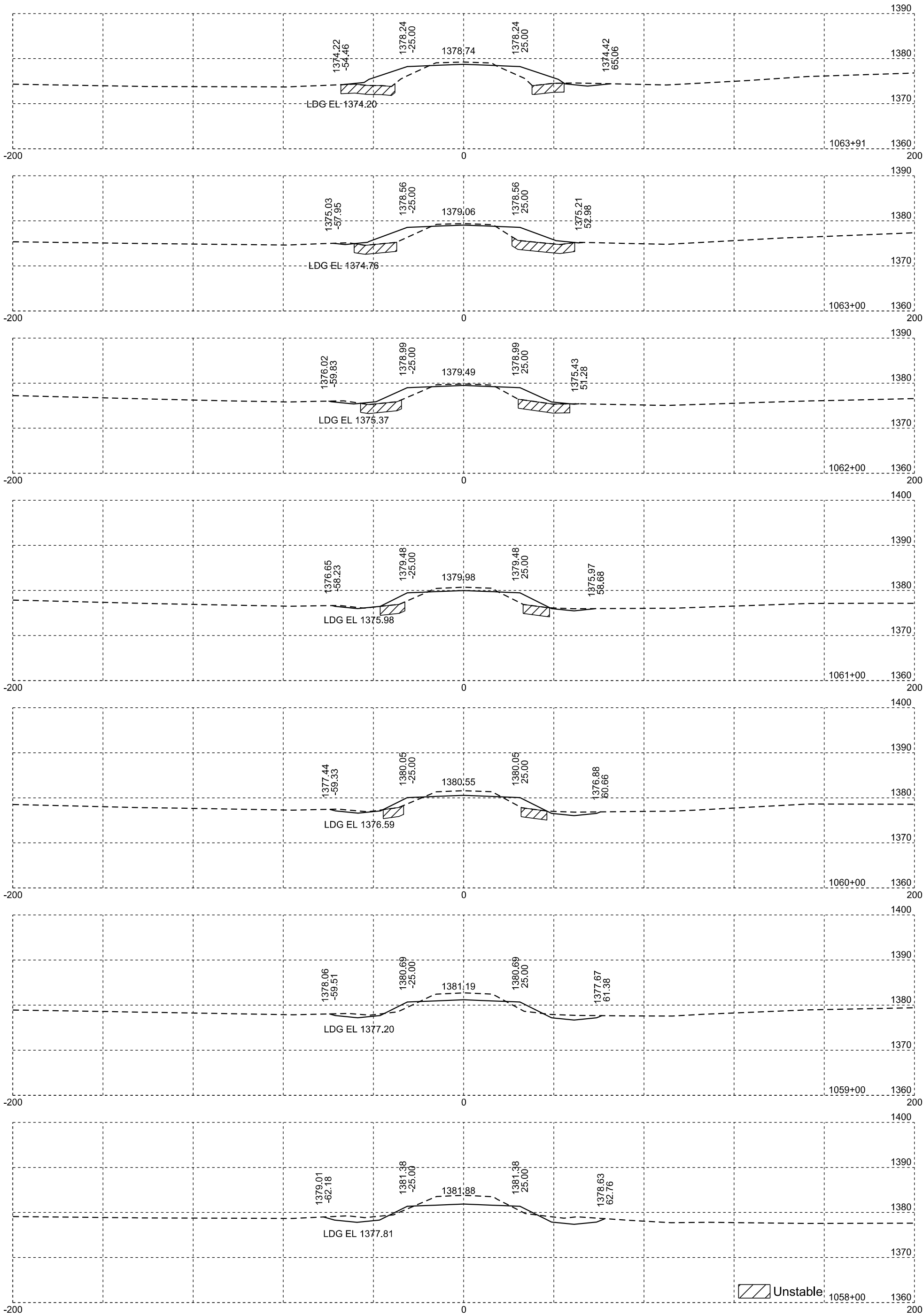
Hole Number	18	18
Station	993+00	993+00
Offset	6.4'RT	6.4'RT
Depth, ft	1.6-3.6	3.6-10.0
Moisture Depth, ft	3.2	5.0
Moisture, %	18.2	20.9
Dry Loose Wt, lbs/cuft	76.7	74.9
% Passing 3/8	95.3	100.0
% Passing #4	95.0	99.2
% Passing #10	94.3	98.2
% Passing #40	88.7	90.4
% Passing #200	69.4	68.8
% Sand	24.9	29.4
% Silt	40.2	34.4
% Clay	29.2	34.4
Liquid Limit	33	40
Plastic Limit	19	18
Plasticity Index	14	21
Soil Color	Dark Gray	Brown
Textural Class.	Clay Silt	Sandy Clay
AASHTO Class.	A-6 (9)	A-6 (11)

Hole Number	19	19
Station	1025+00	1025+00
Offset	7.2'RT	7.2'RT
Depth, ft	1.6-3.7	3.7-10.0
Moisture Depth, ft	3.2	8.0
Moisture, %	21.7	24.9
Dry Loose Wt, lbs/cuft	77.3	78.1
% Passing 3/8	98.3	99.5
% Passing #4	97.8	98.9
% Passing #10	96.5	97.5
% Passing #40	90.1	90.3
% Passing #200	69.8	71.5
% Sand	26.7	26.0
% Silt	38.0	39.3
% Clay	31.8	32.2
Liquid Limit	34	41
Plastic Limit	18	21
Plasticity Index	16	20
Soil Color	Dark Gray	Brown
Textural Class.	Sandy Clay	Silt Clay
AASHTO Class.	A-6 (9)	A-7-6 (12)

Hole Number	20	20
Station	1052+00	1052+00
Offset	8.0'LT	8.0'LT
Depth, ft	1.6-3.6	3.6-10.0
Moisture Depth, ft	3.2	5.0
Moisture, %	24.9	20.5
Dry Loose Wt, lbs/cuft	76.2	74.0
% Passing 3/8	98.9	100.0
% Passing #4	98.8	99.7
% Passing #10	98.0	98.1
% Passing #40	91.7	89.8
% Passing #200	72.7	67.0
% Sand	25.2	31.1
% Silt	42.4	32.7
% Clay	30.4	34.3
Liquid Limit	37	38
Plastic Limit	20	18
Plasticity Index	17	21
Soil Color	Dark Brown	Brown
Textural Class.	Clay Silt	Sandy Clay
AASHTO Class.	A-6 (10)	A-6 (11)

Hole Number	21	21
Station	1075+00	1075+00
Offset	7.8'LT	7.8'LT
Depth, ft	1.6-3.5	3.5-10.0
Moisture Depth, ft	2.8	5.0
Moisture, %	21.4	18.0
Dry Loose Wt, lbs/cuft	79.8	81.8
% Passing 3/8	98.4	99.0
% Passing #4	97.4	98.4
% Passing #10	95.7	96.7
% Passing #40	85.7	82.7
% Passing #200	59.9	52.2
% Sand	35.8	44.5
% Silt	34.0	24.1
% Clay	25.8	28.0
Liquid Limit	35	31
Plastic Limit	18	17
Plasticity Index	17	14
Soil Color	Brown	Brown
Textural Class.	Clay Sand	Clay Sand
AASHTO Class.	A-6 (8)	A-6 (5)

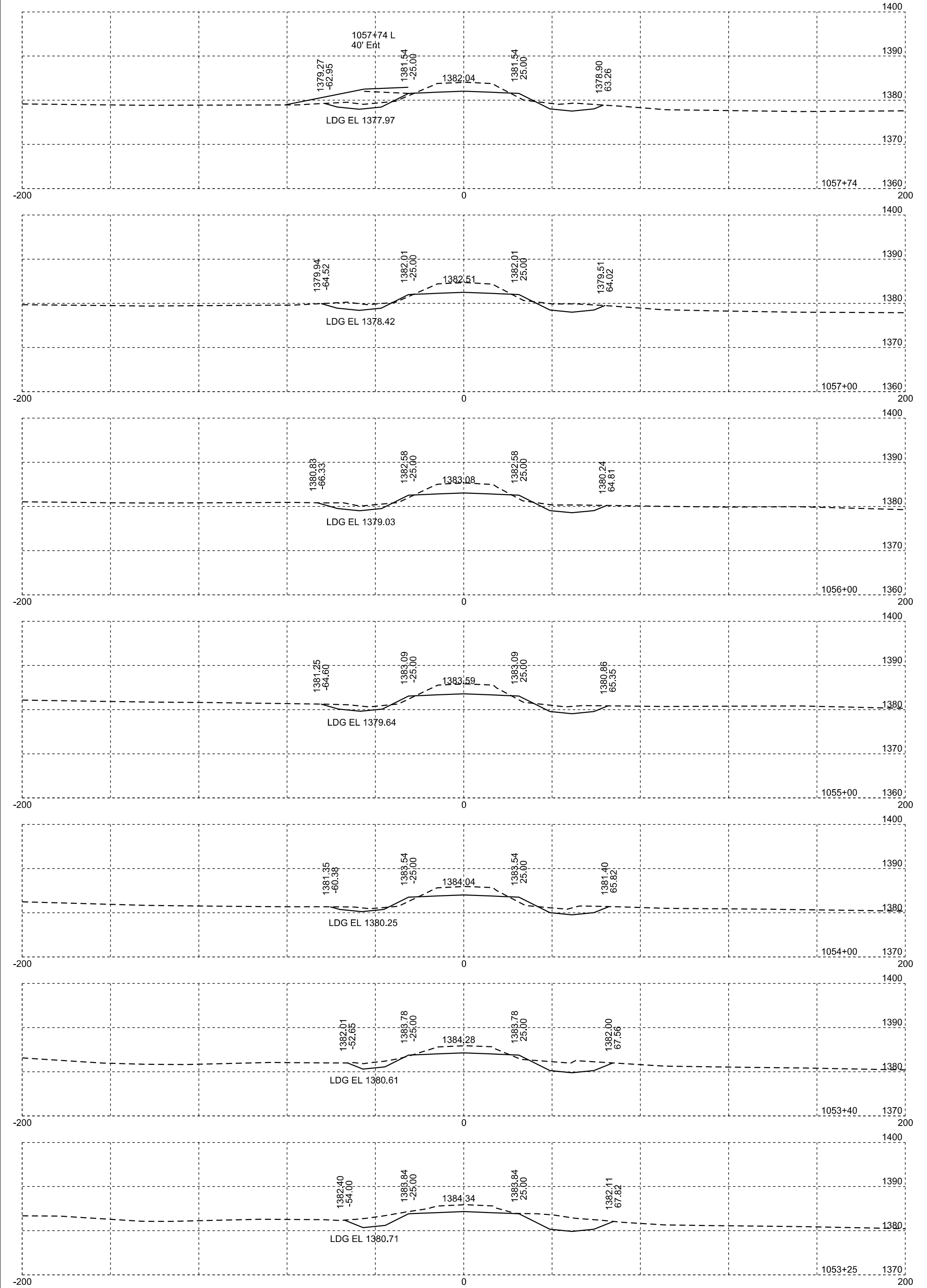


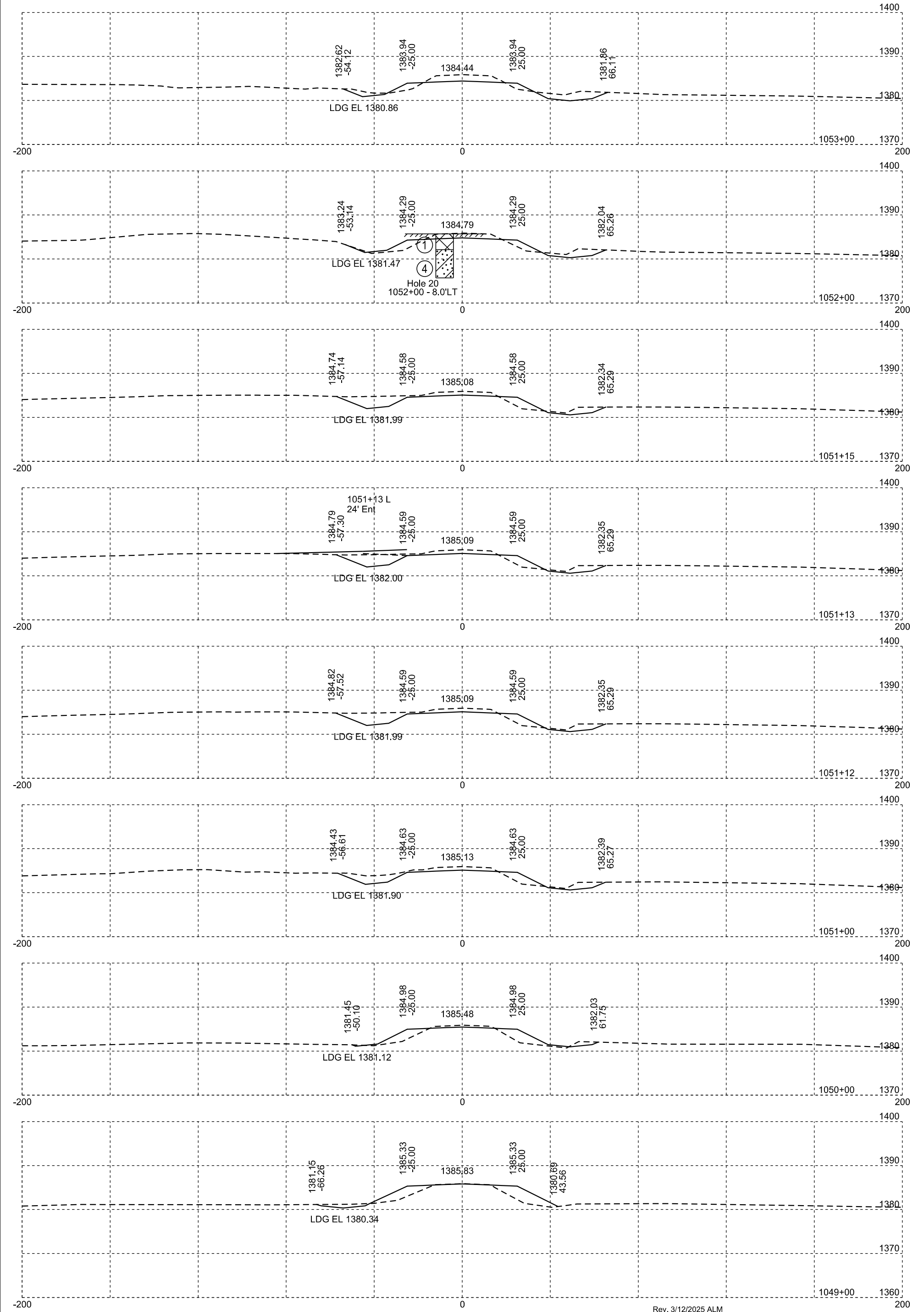


Unstable

Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X7	X99

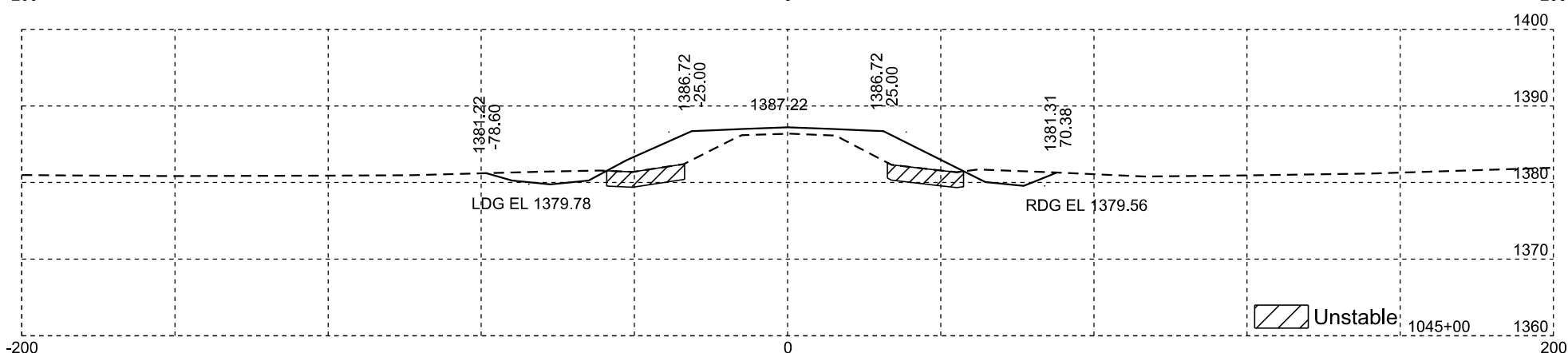
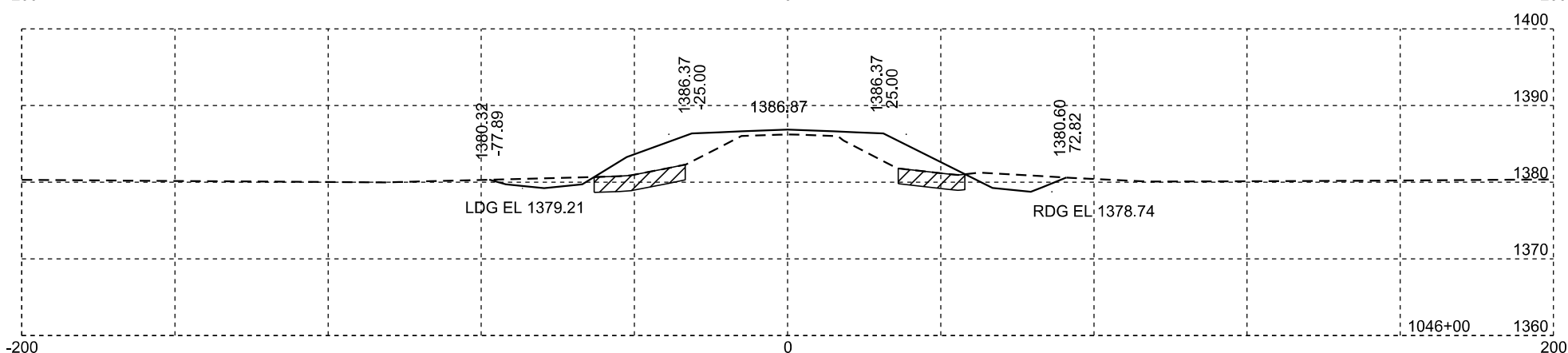
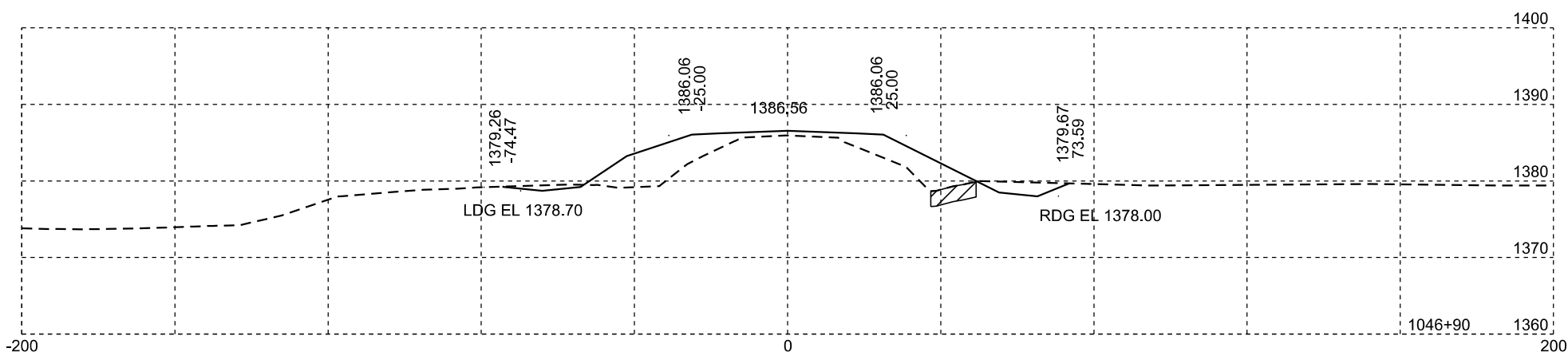
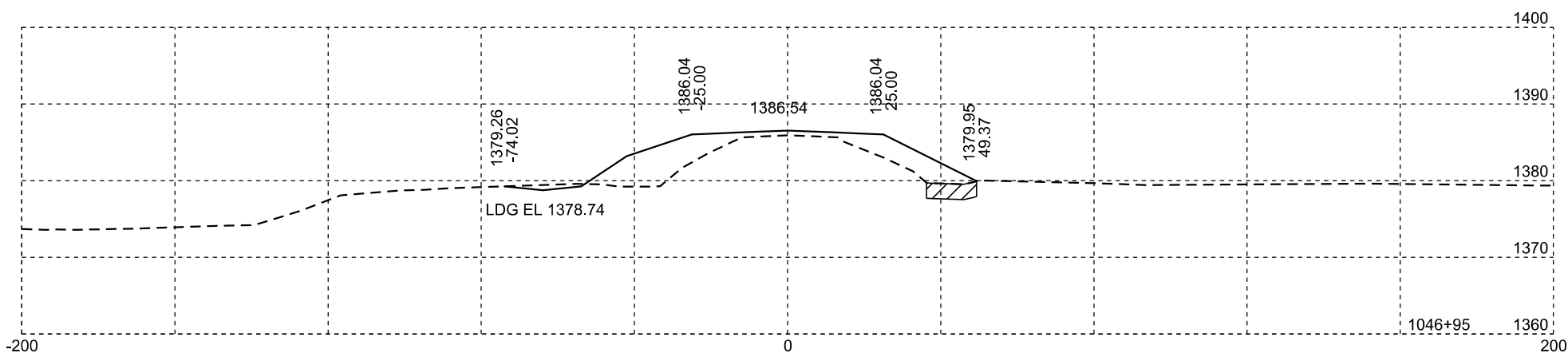
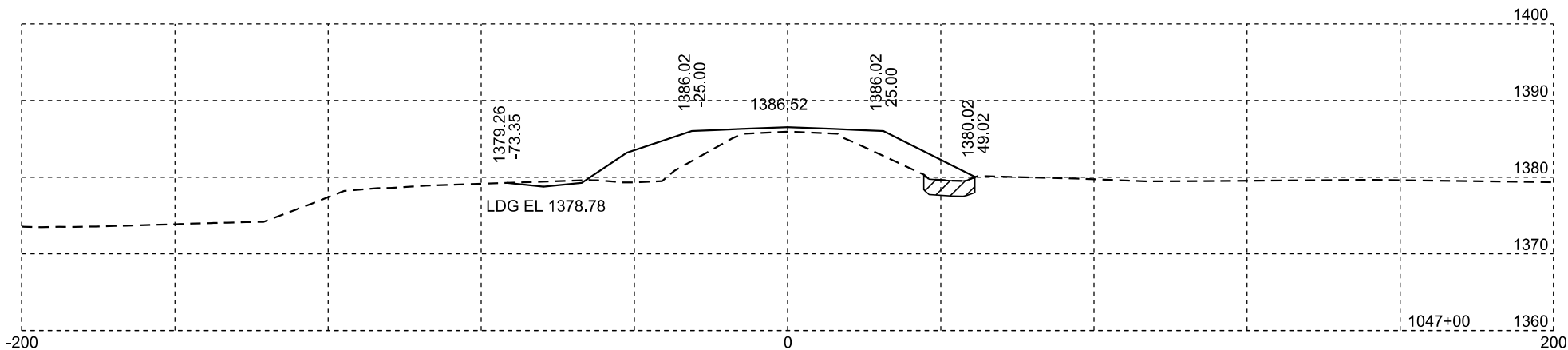
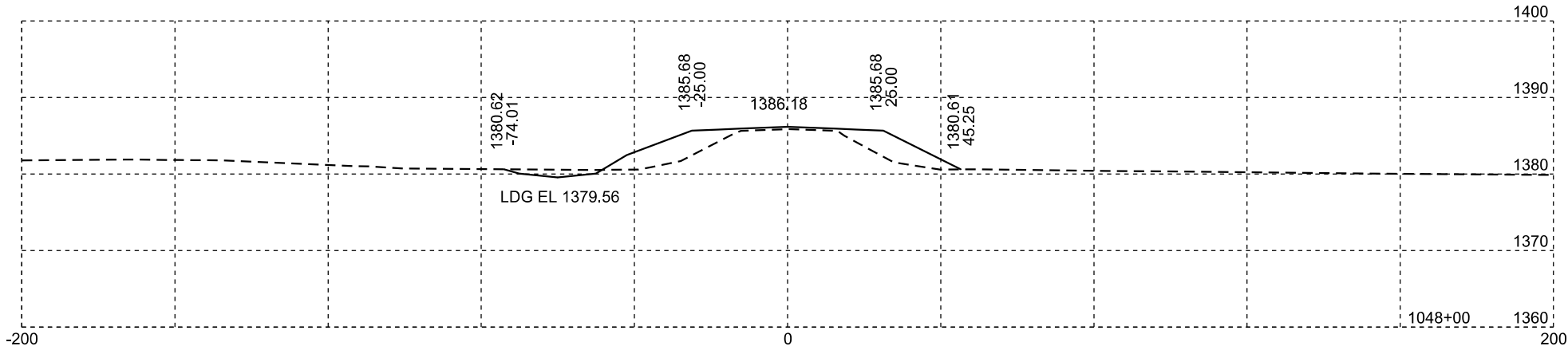




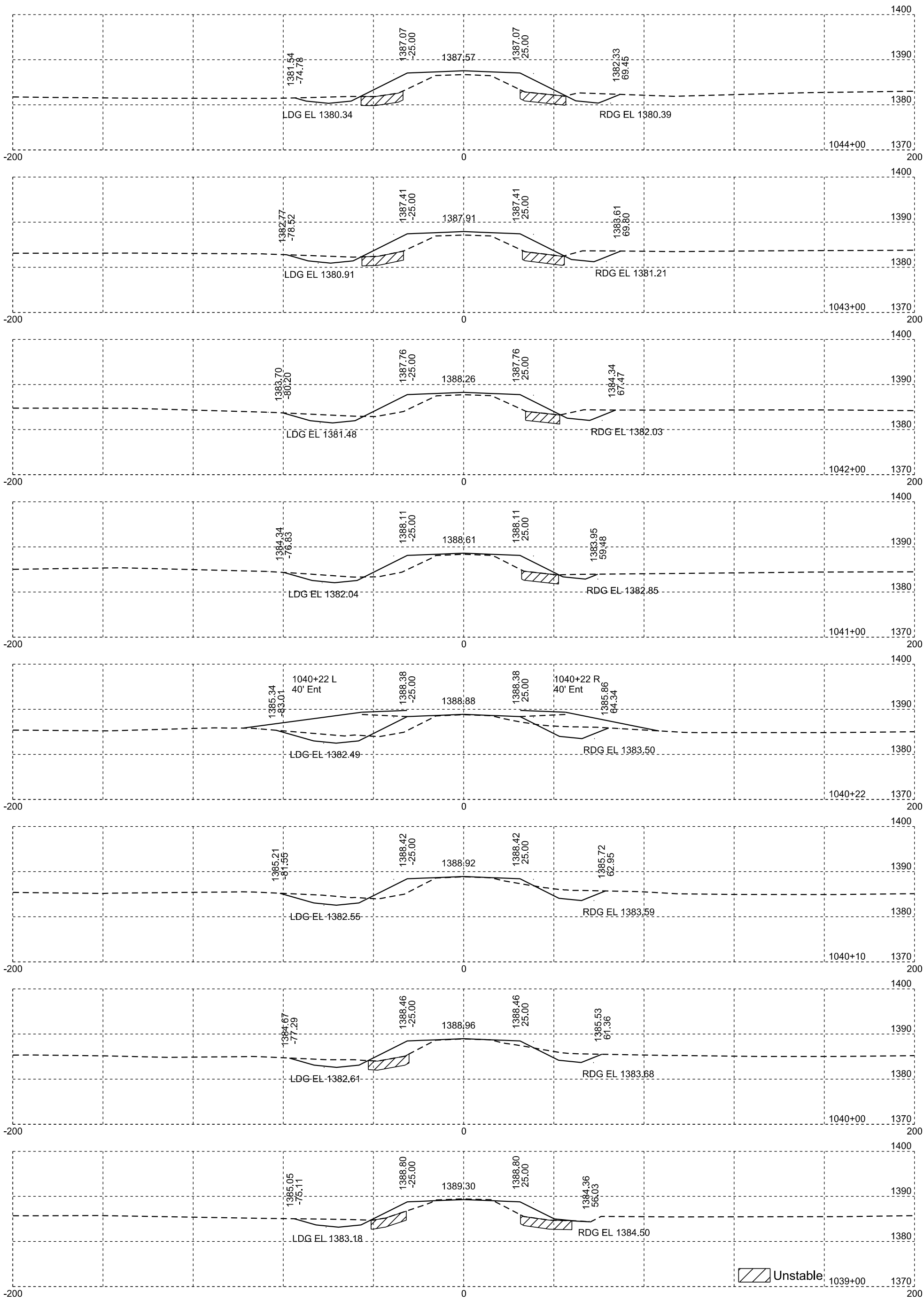
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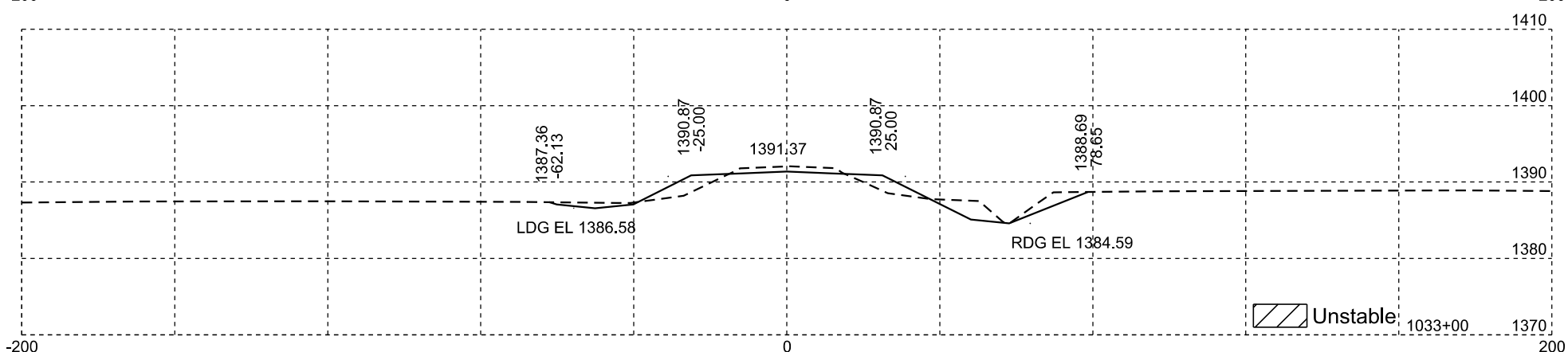
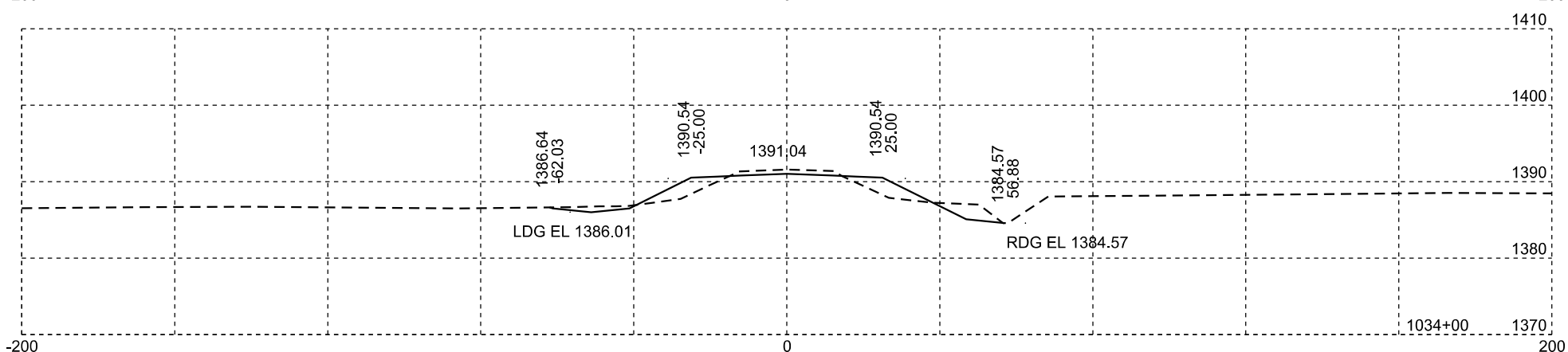
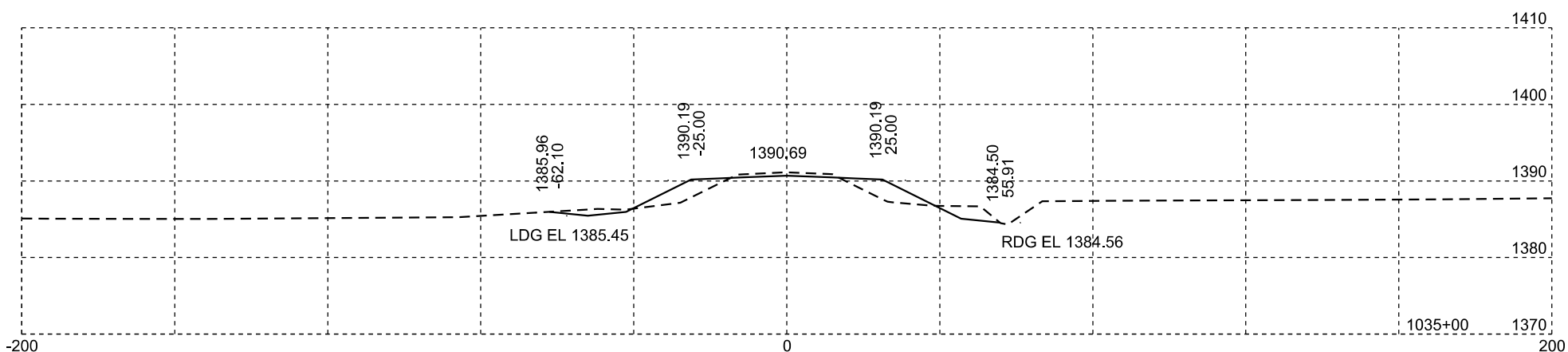
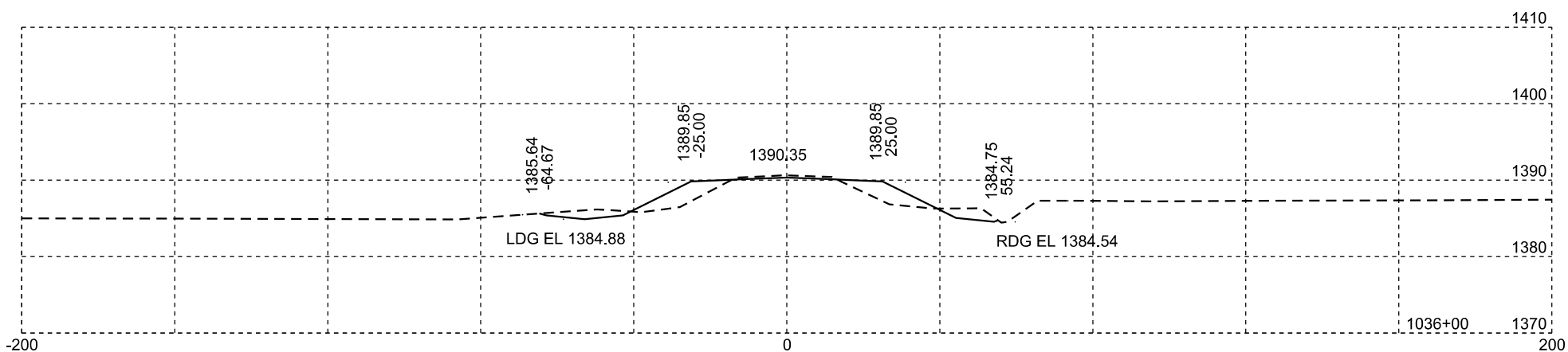
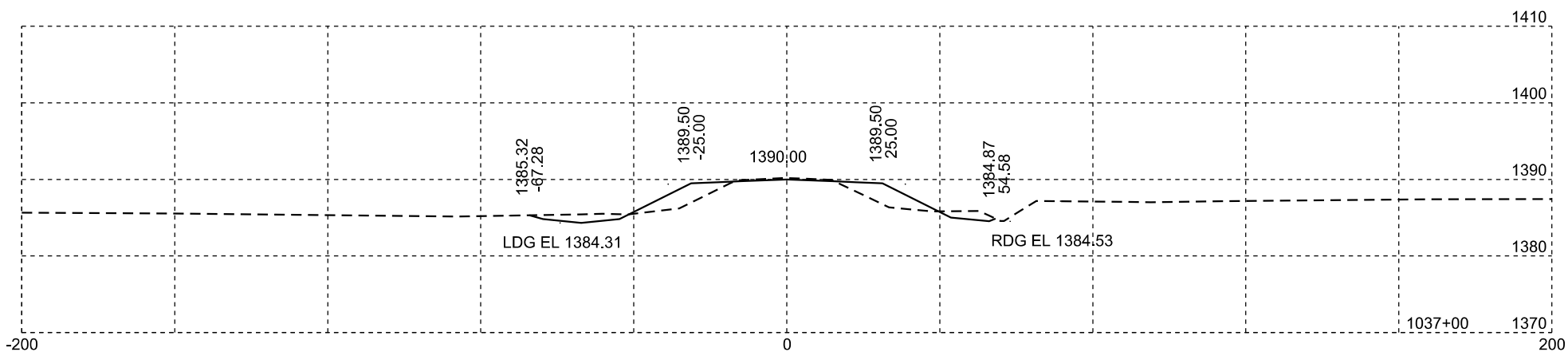
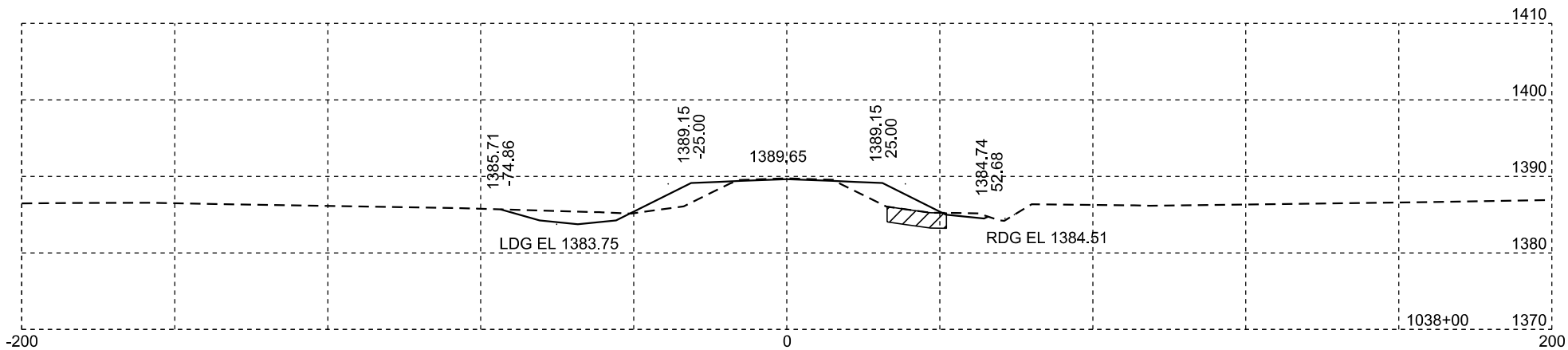
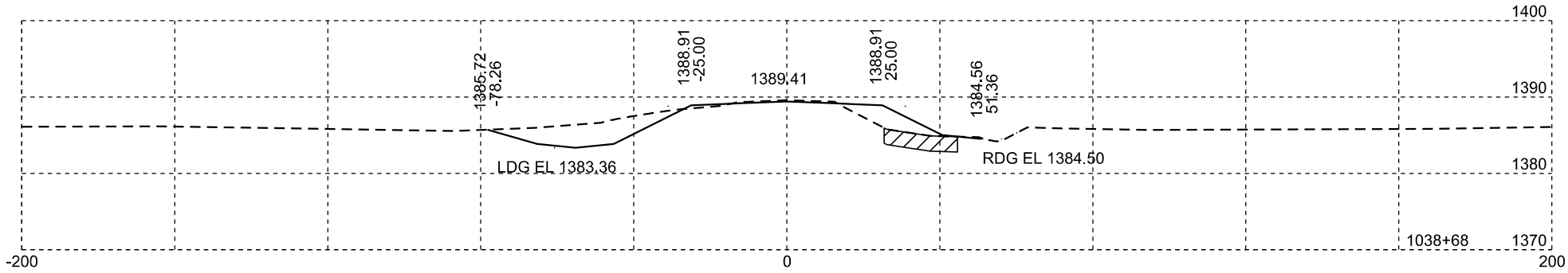
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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X9	X99

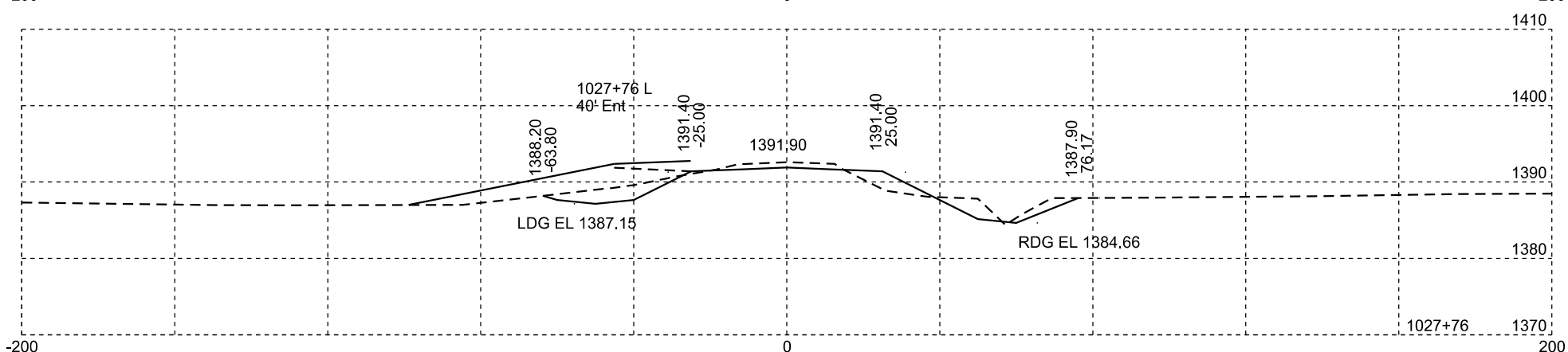
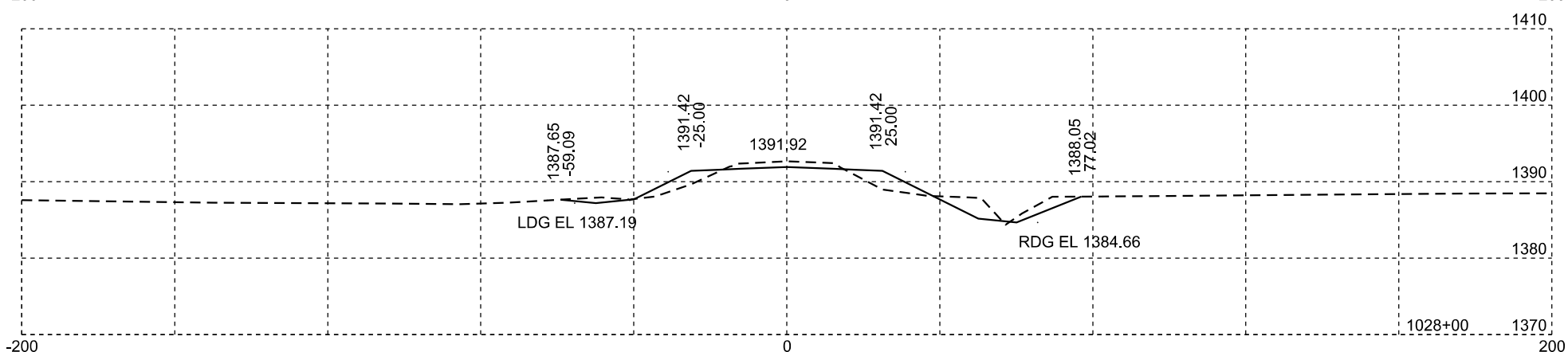
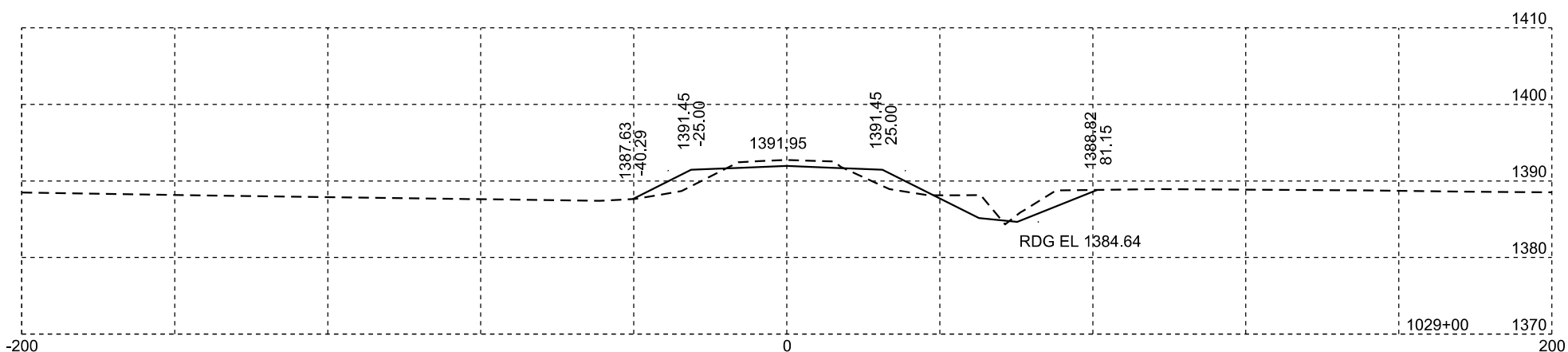
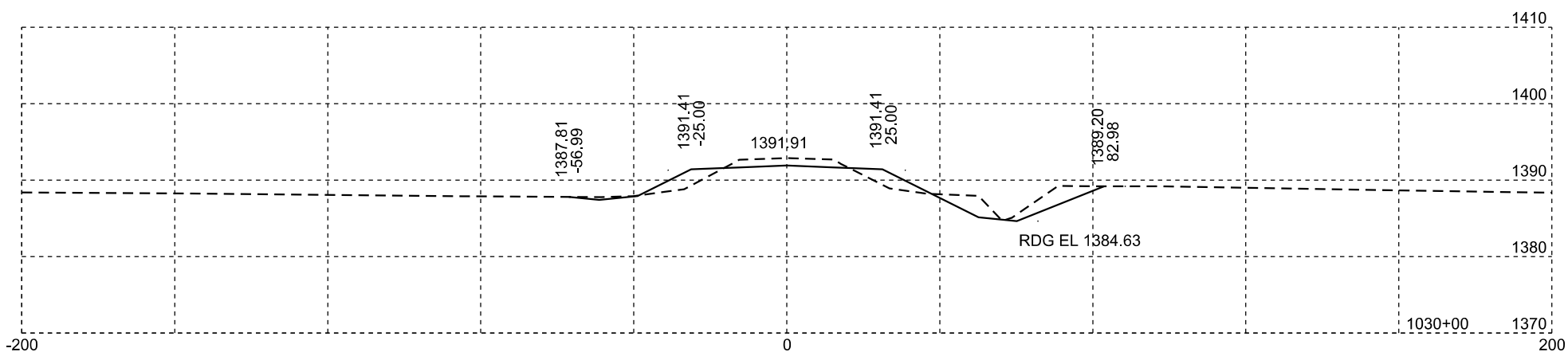
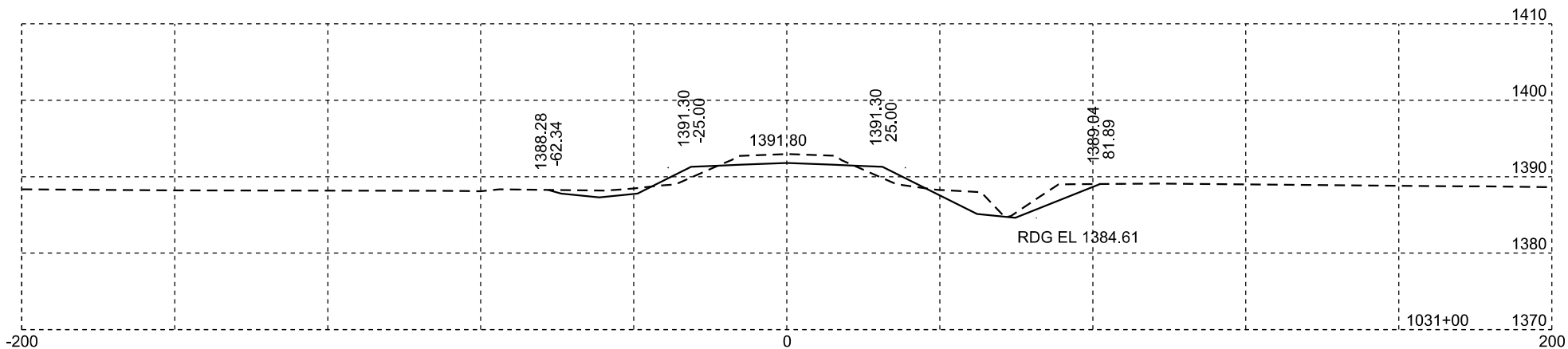
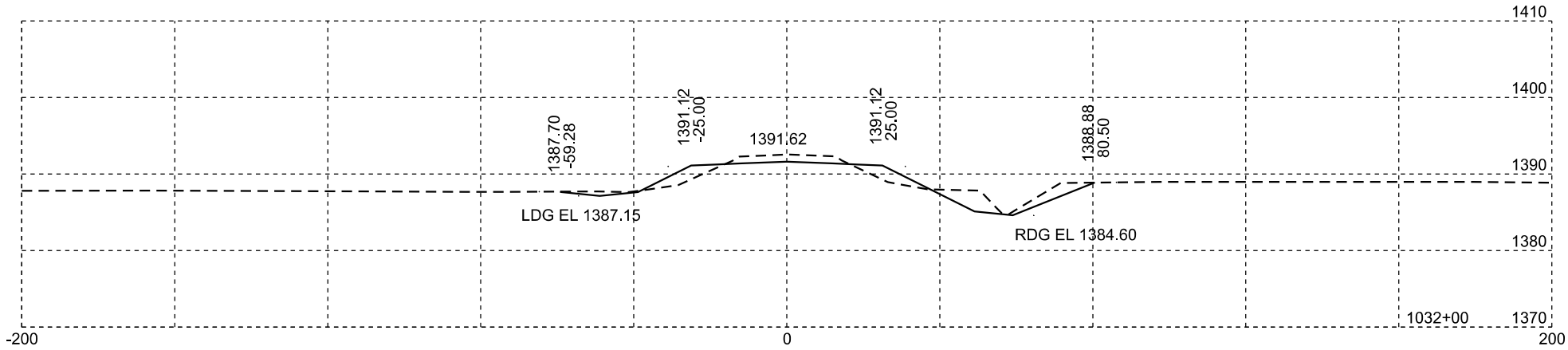


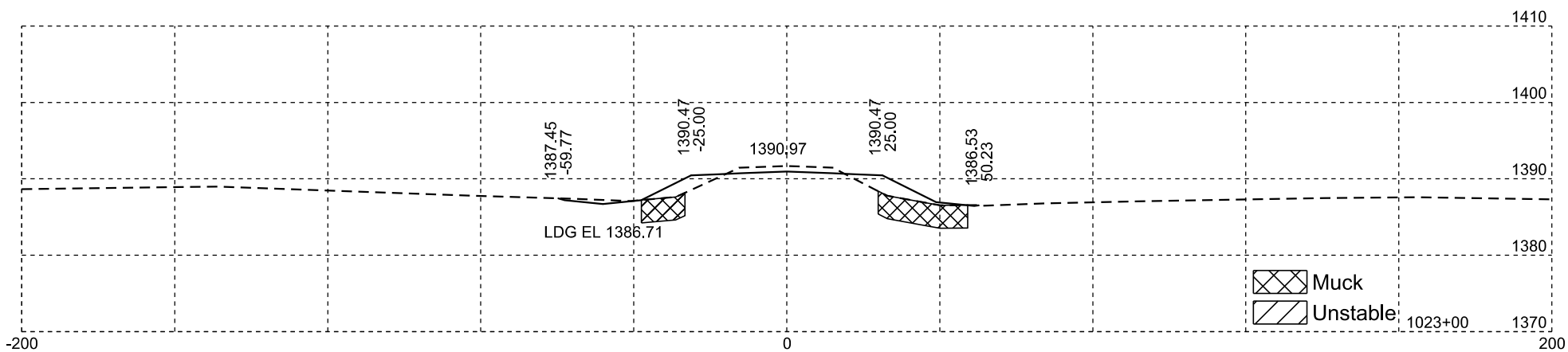
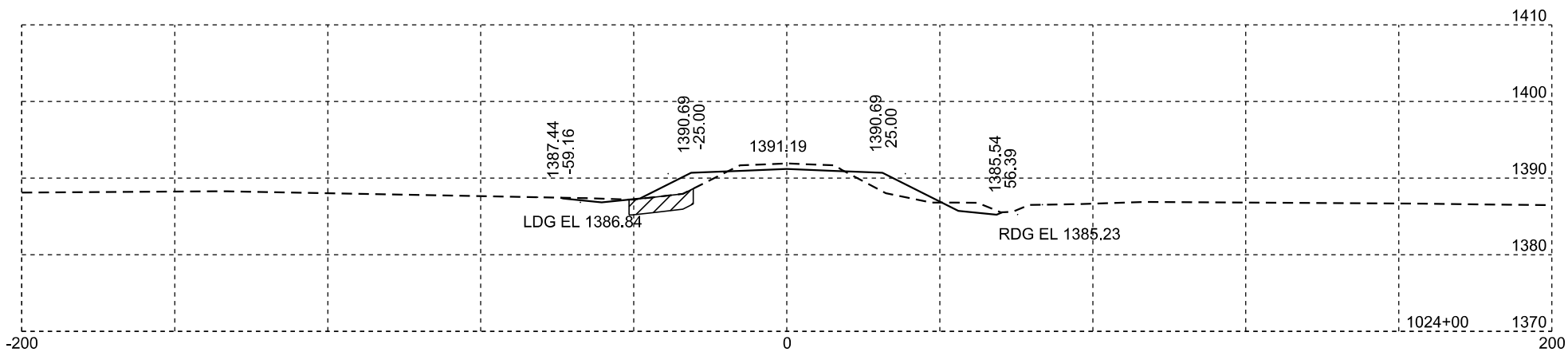
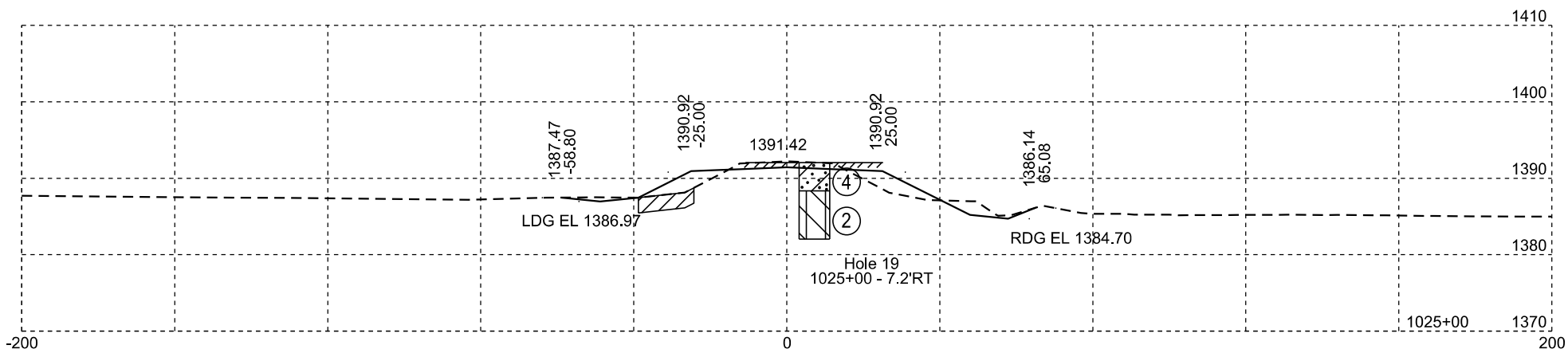
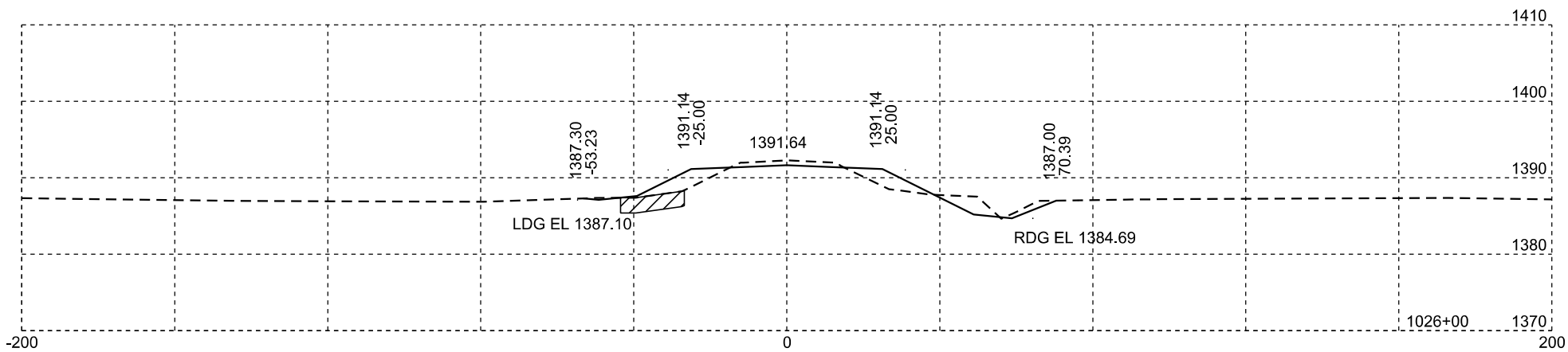
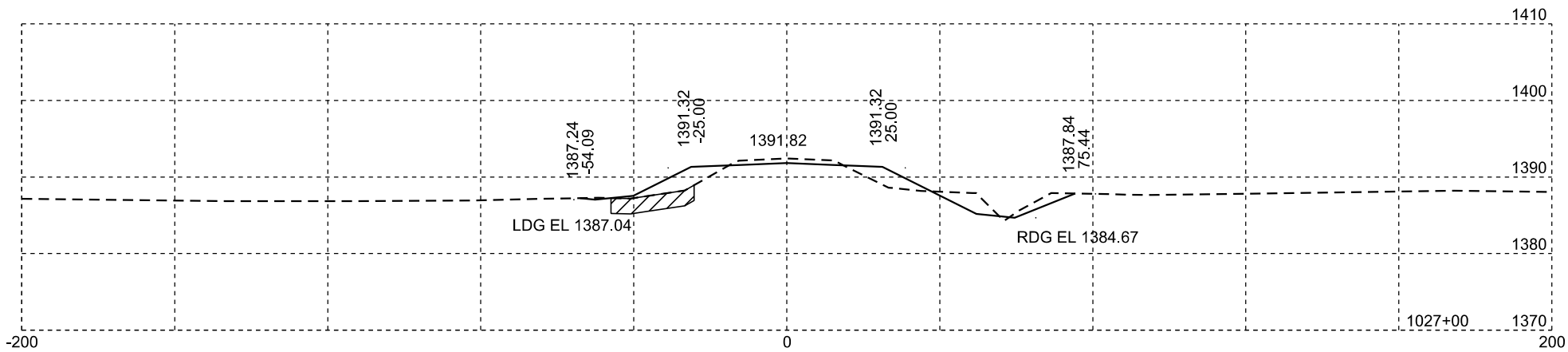
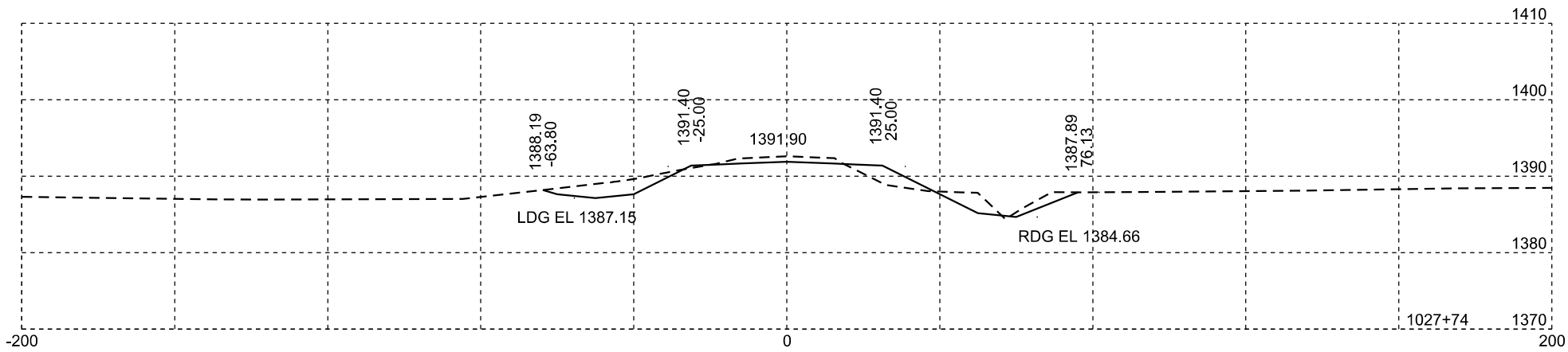
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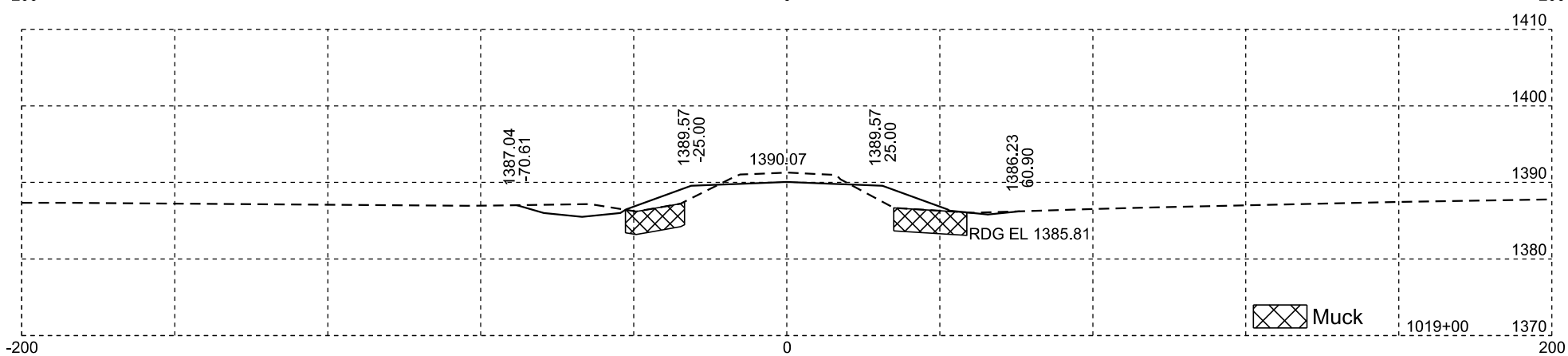
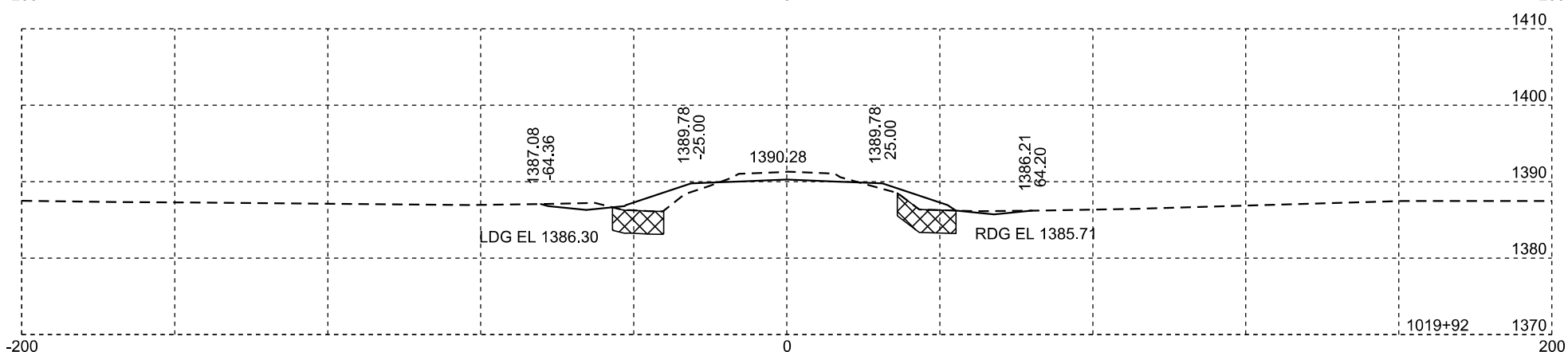
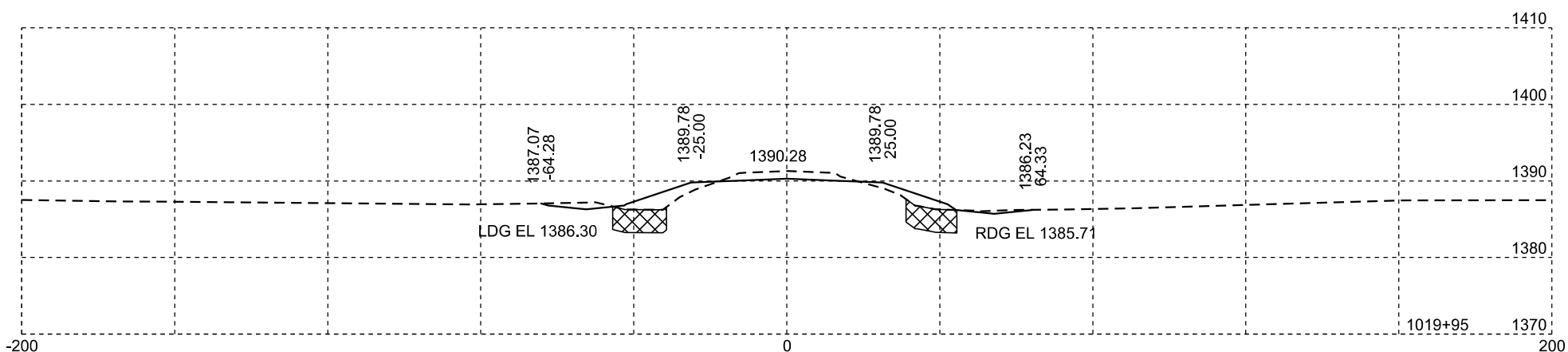
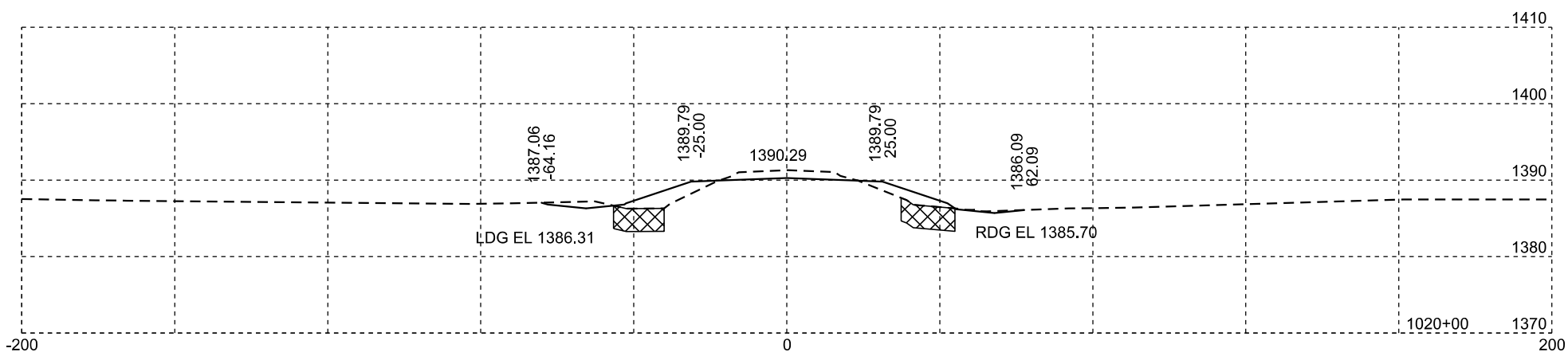
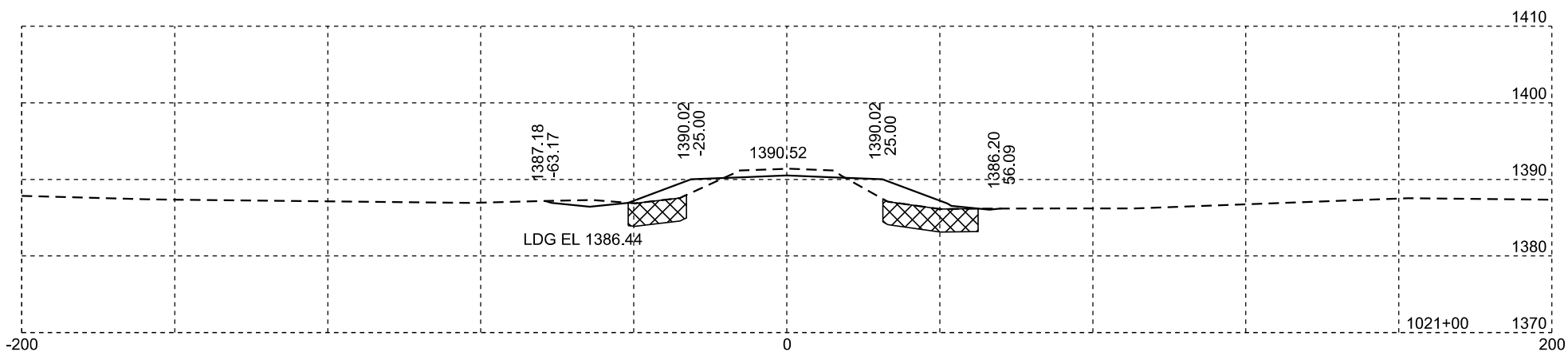
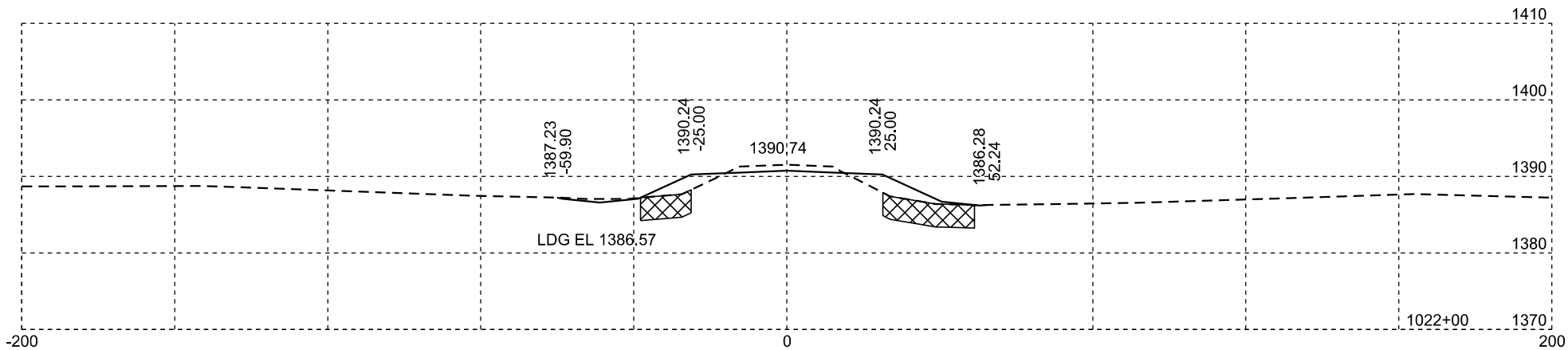


Unstable





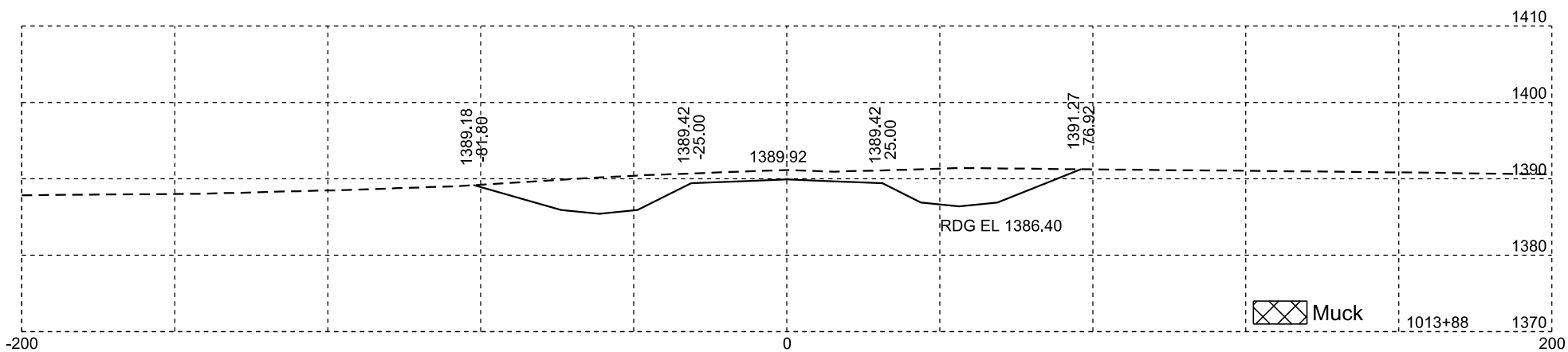
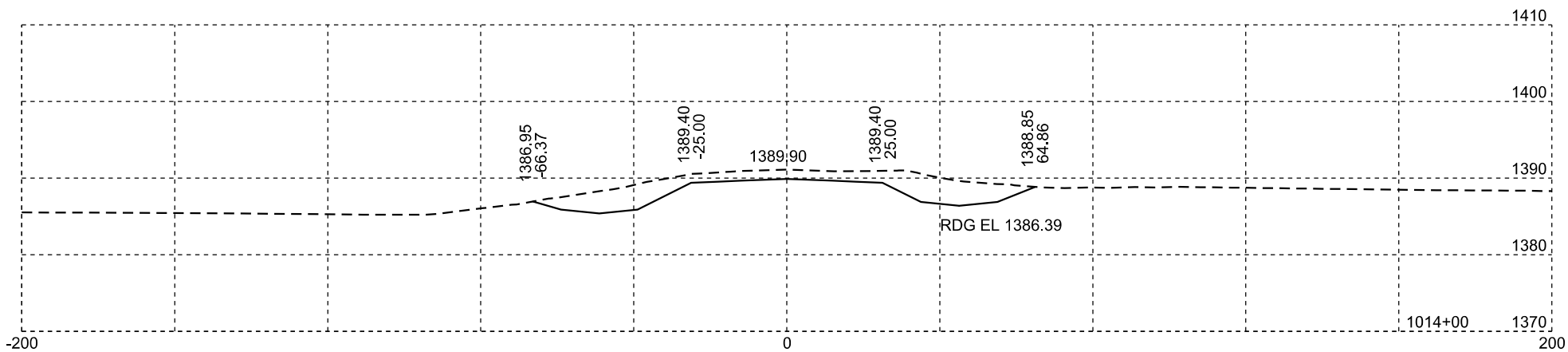
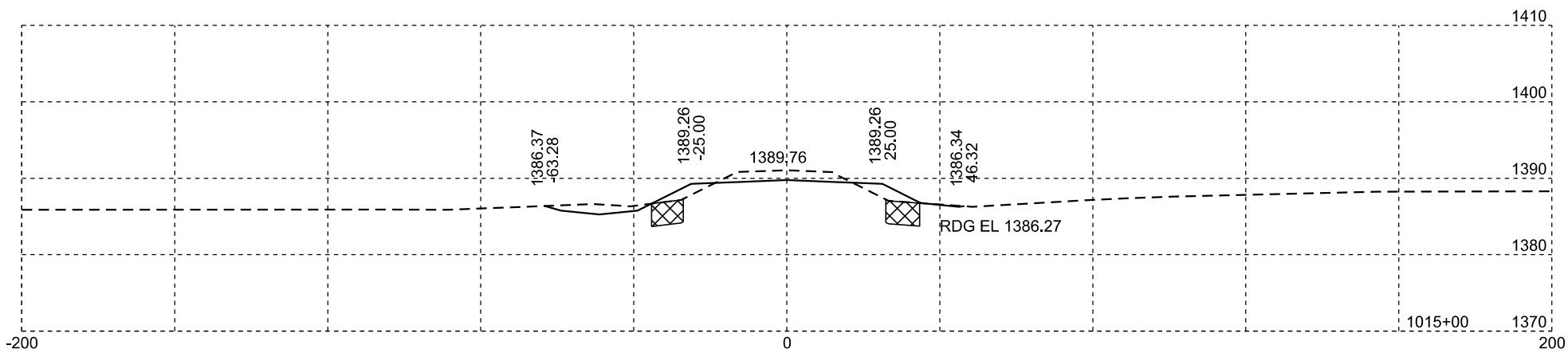
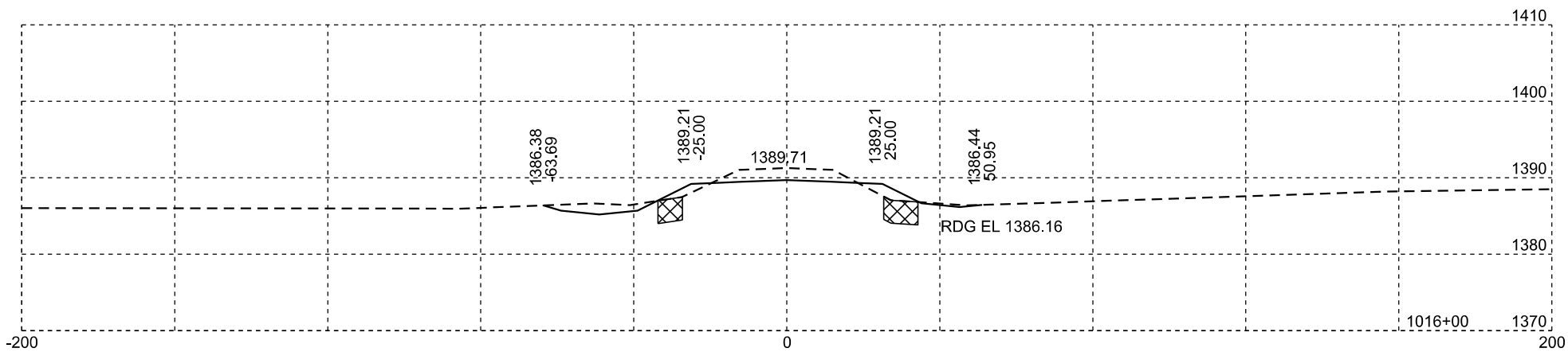
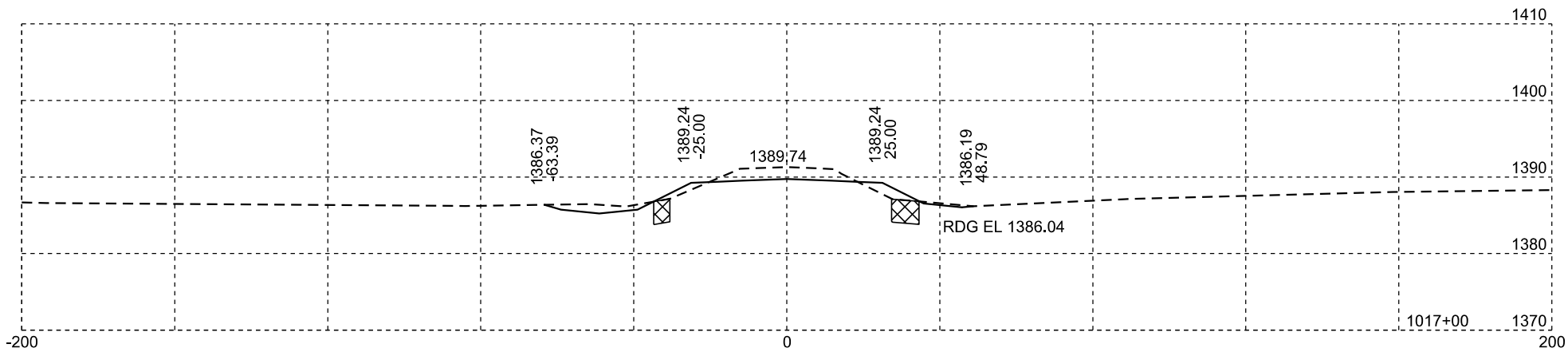
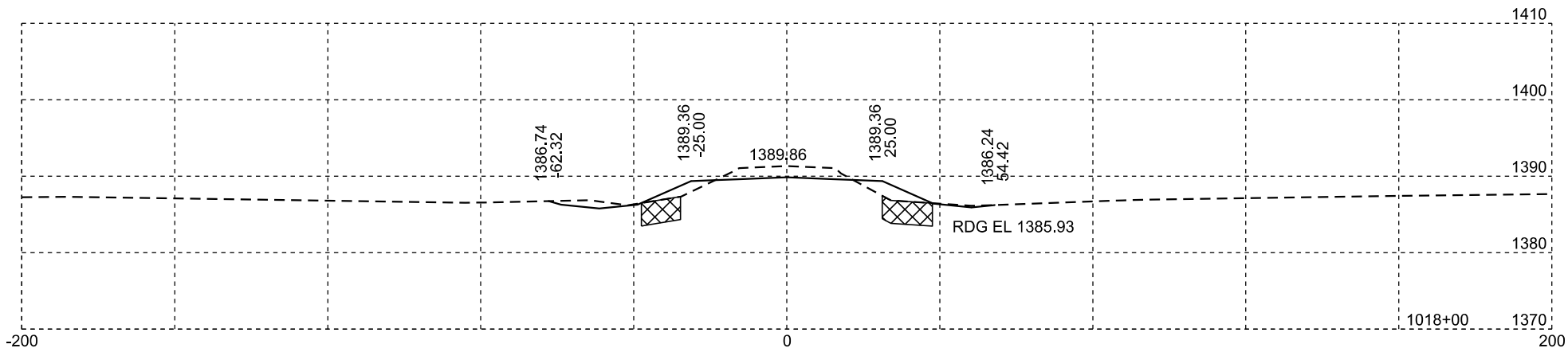
Muck
Unstable



Muck

Plotting Date: 01/20/2026

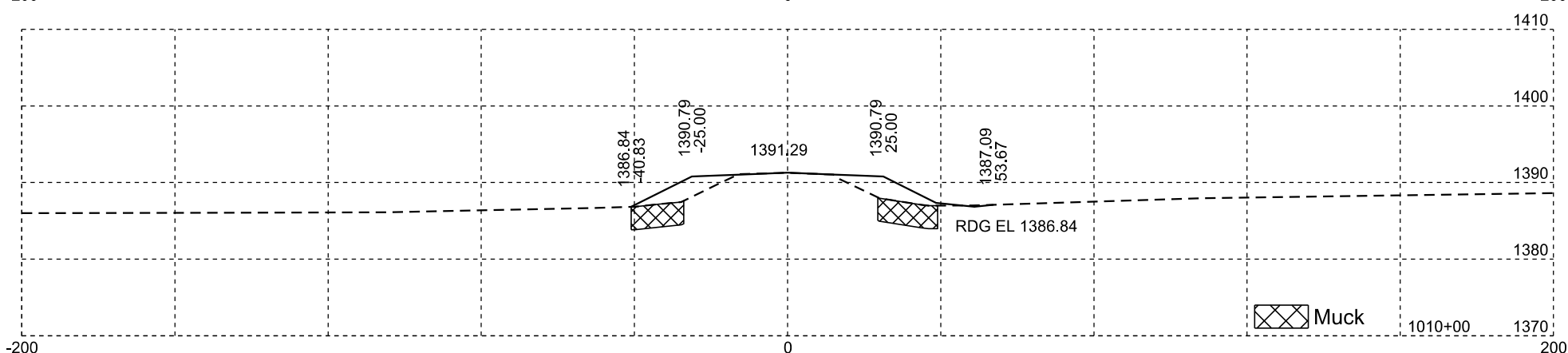
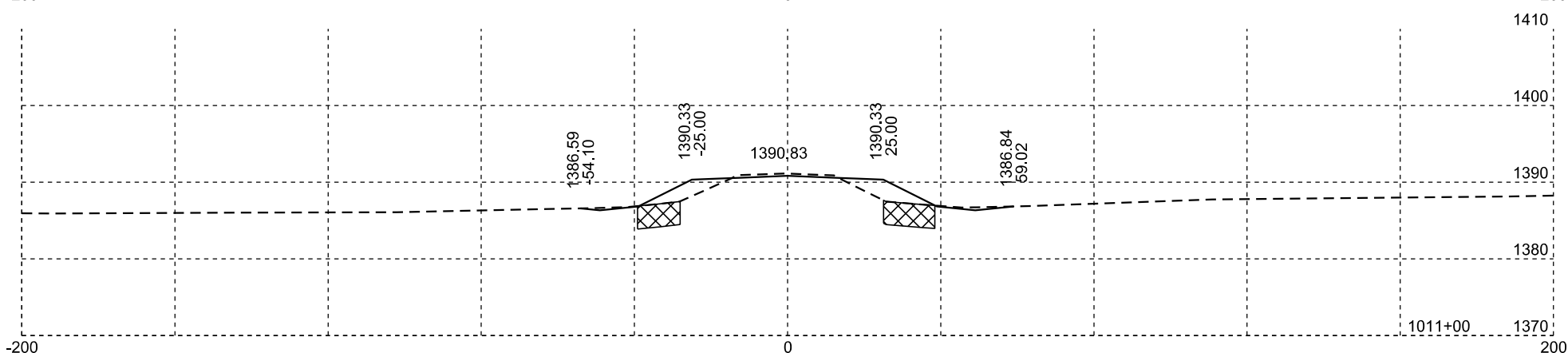
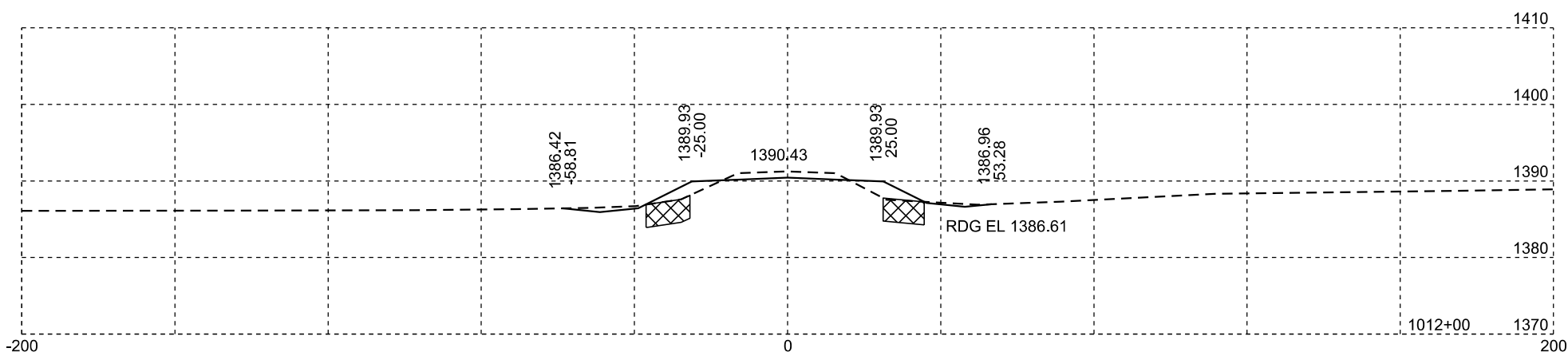
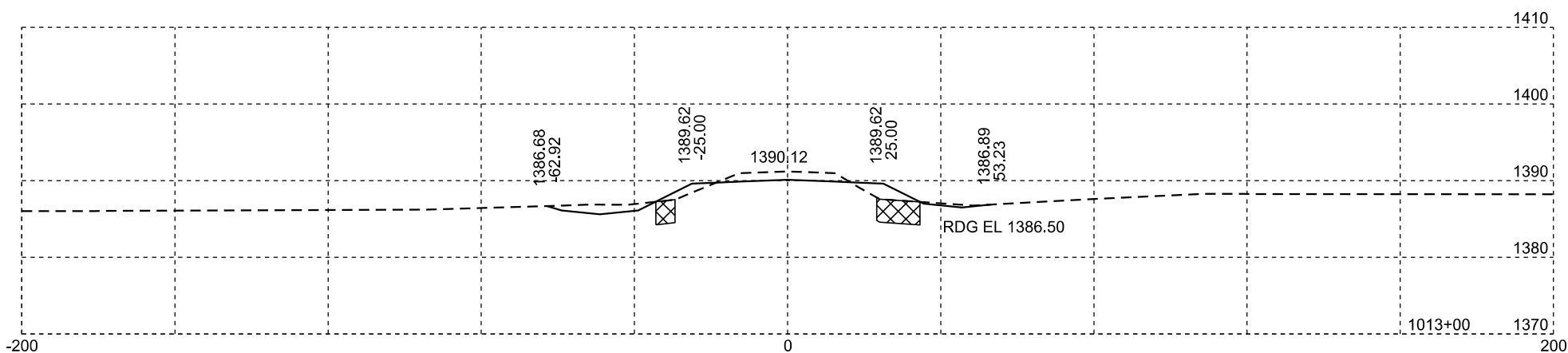
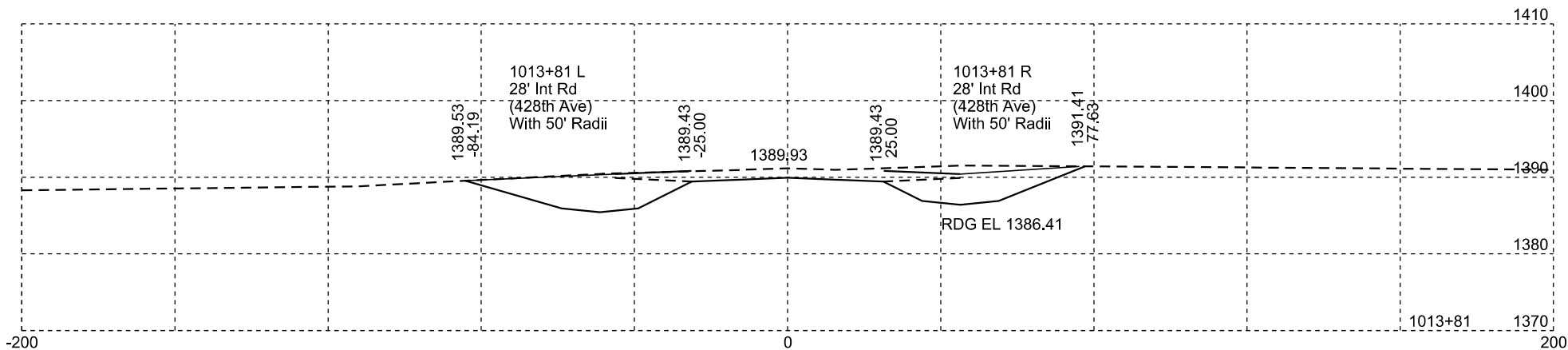
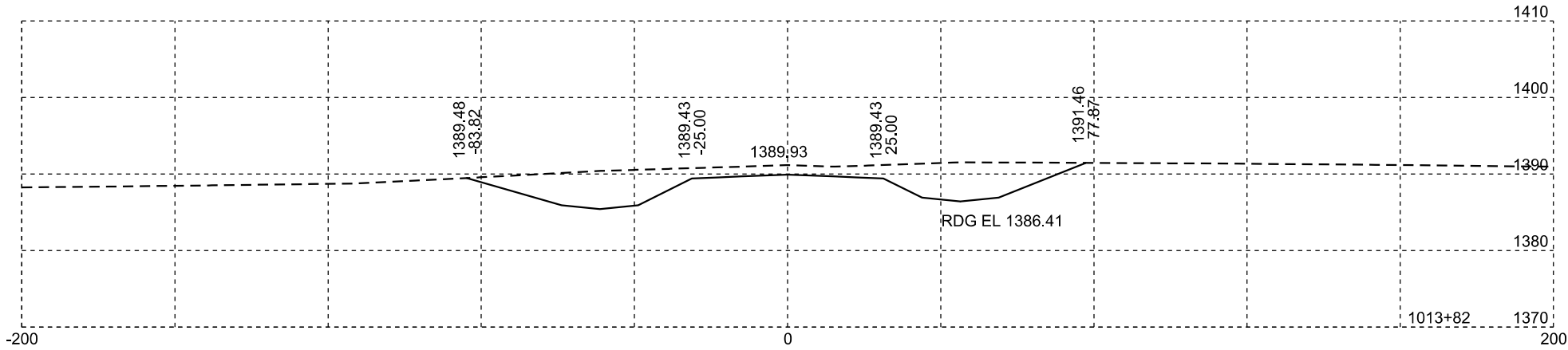
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X15	X99



Muck

Plotting Date: 01/20/2026

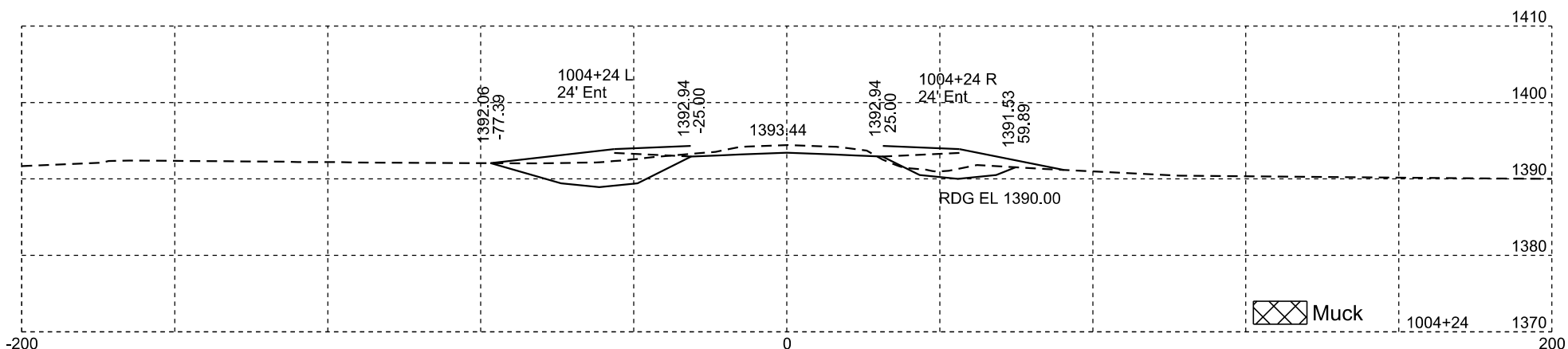
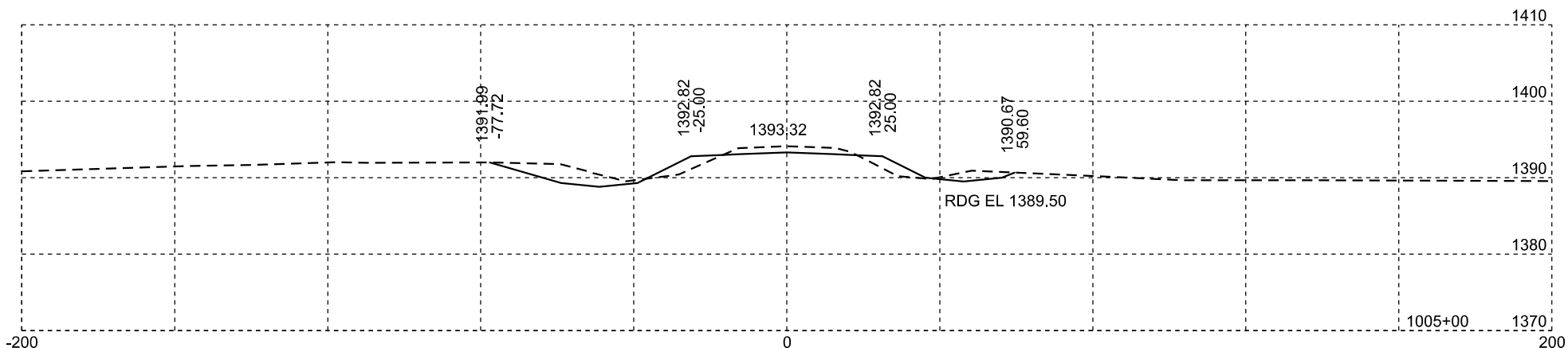
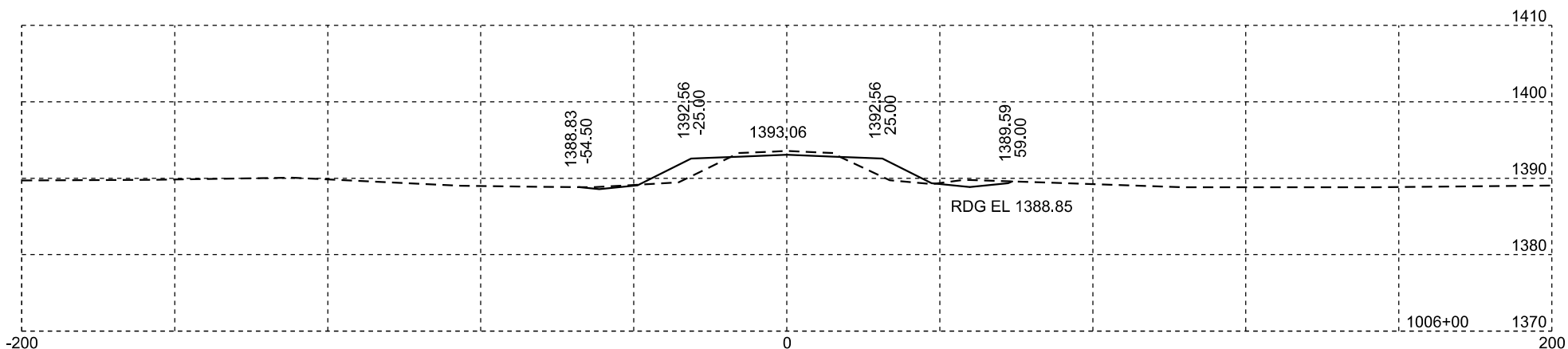
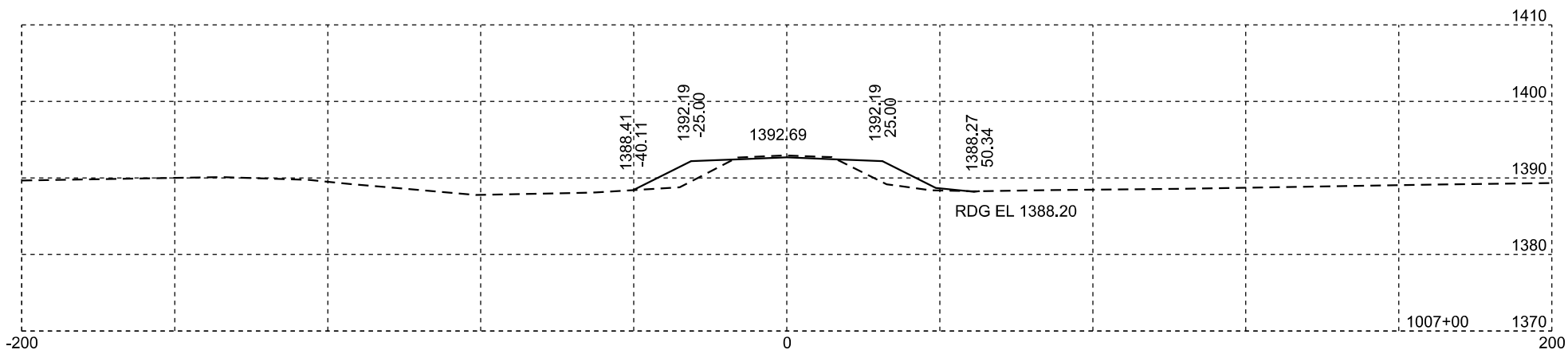
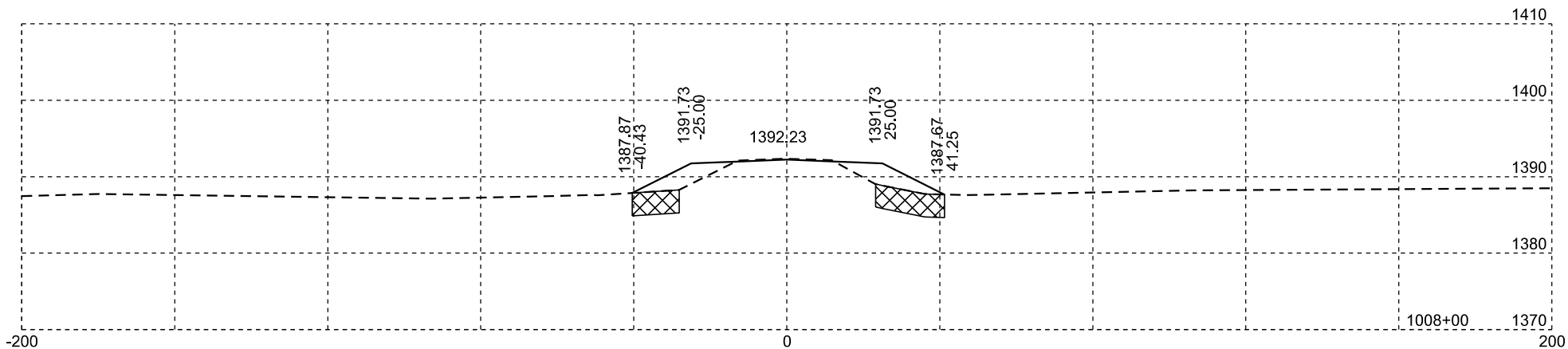
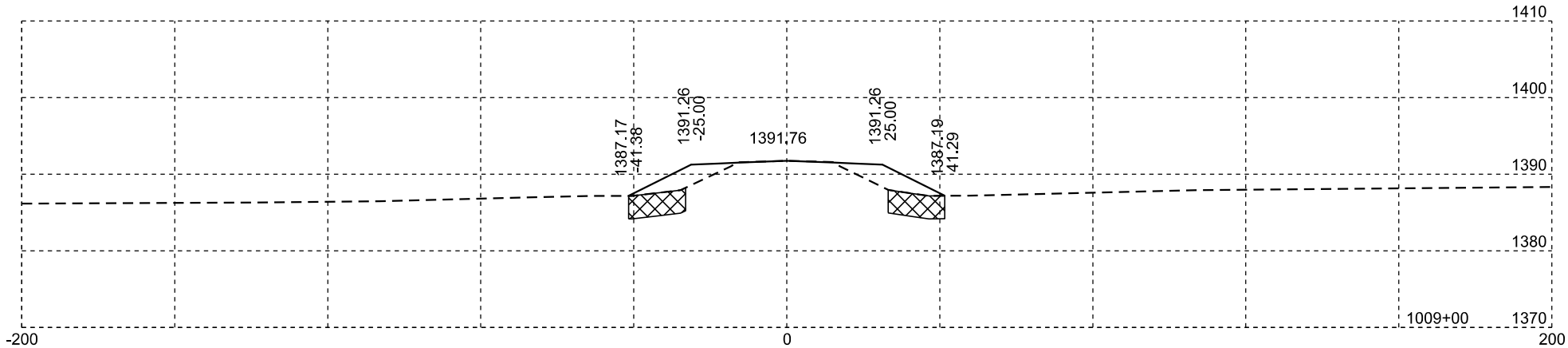
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X16	X99



 Muck

Plotting Date: 01/20/2026

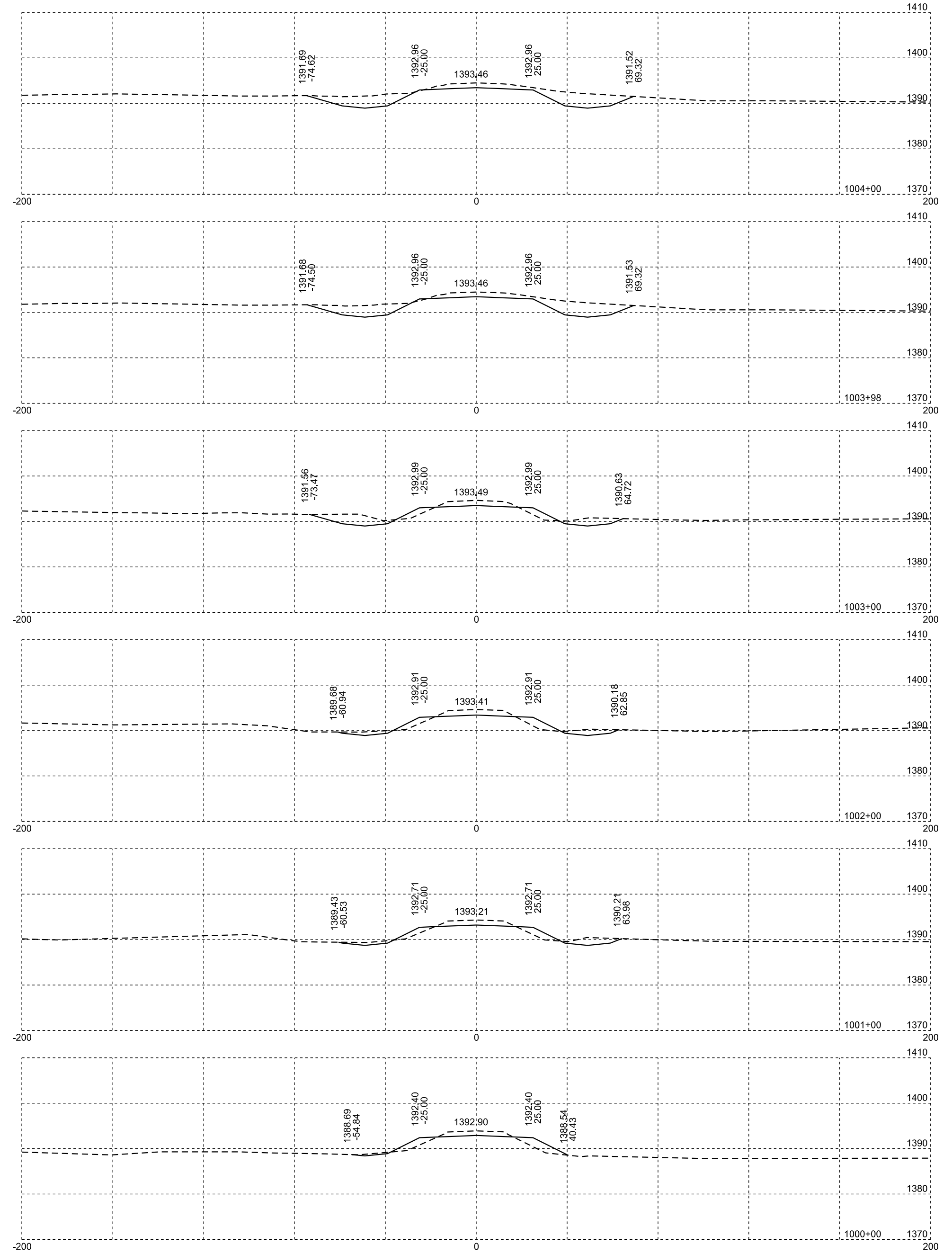
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X17	X99



Muck

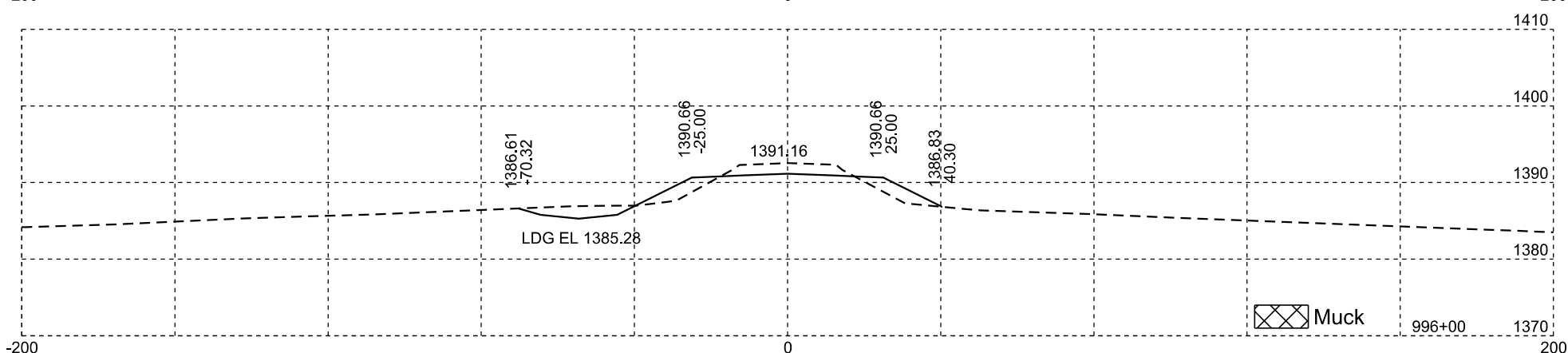
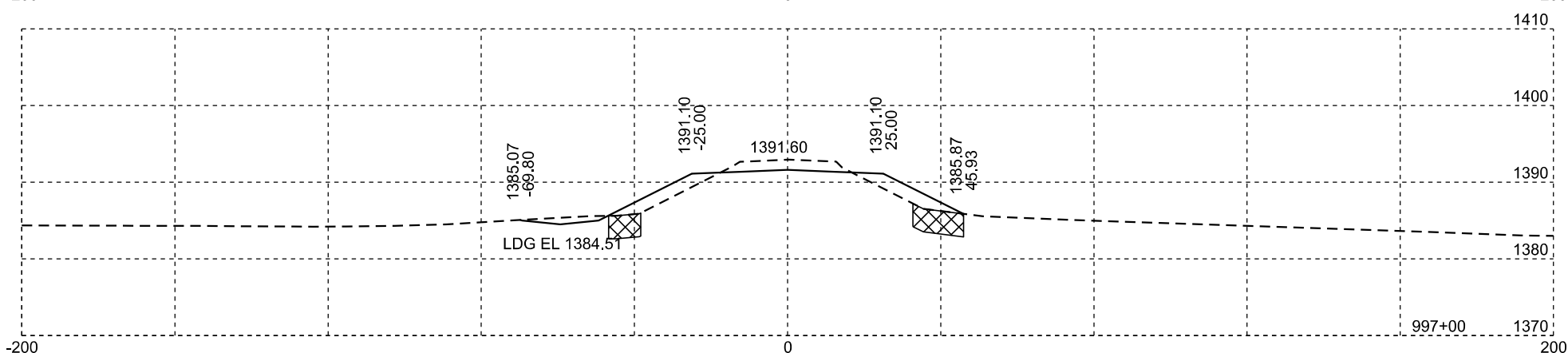
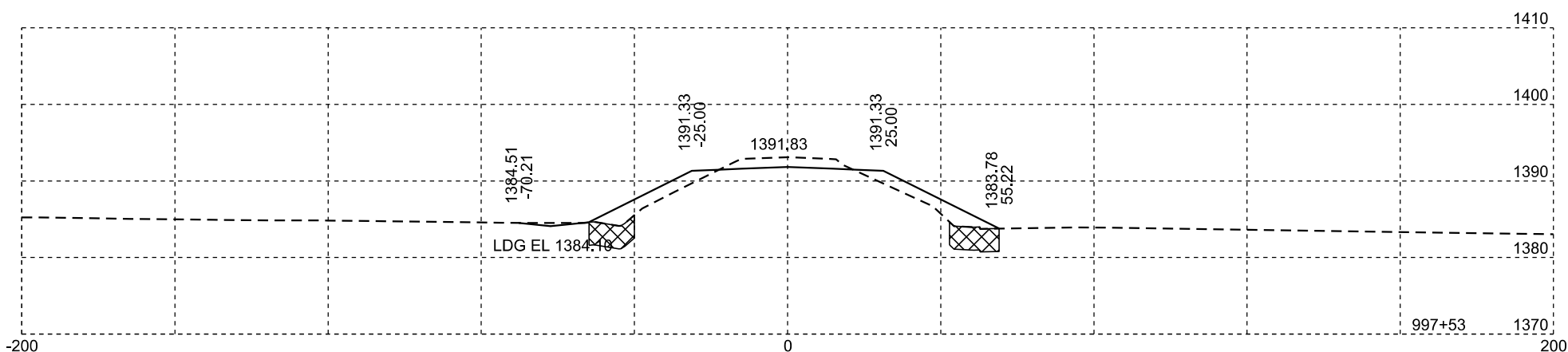
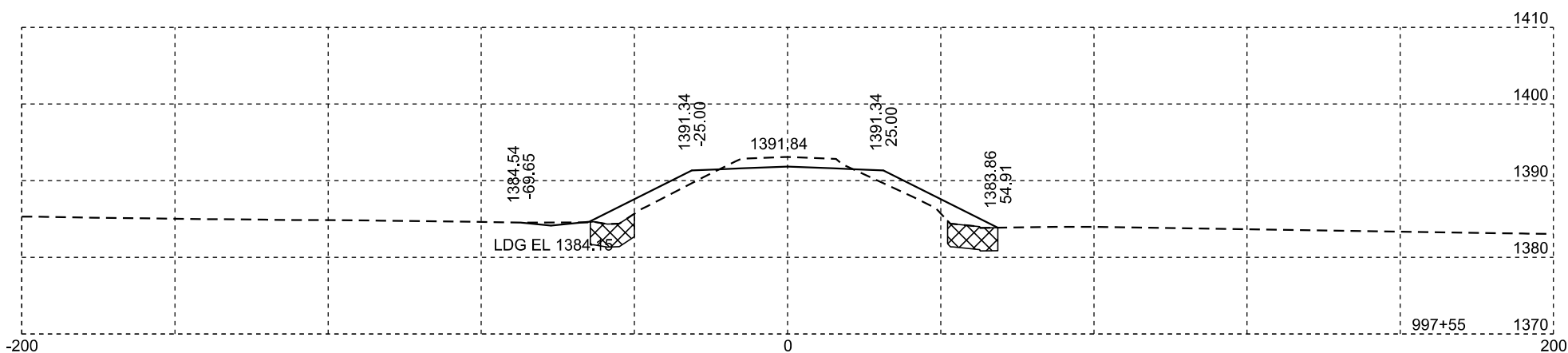
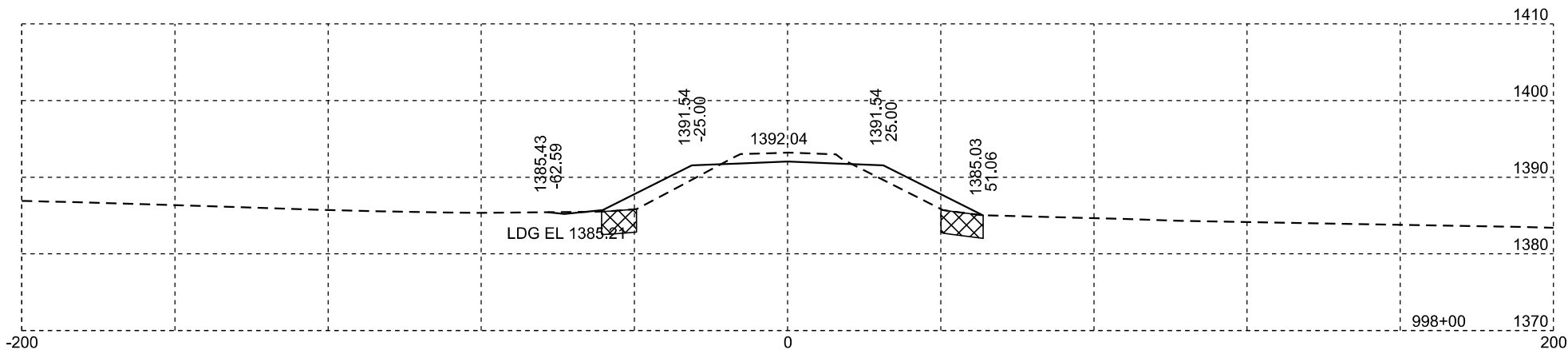
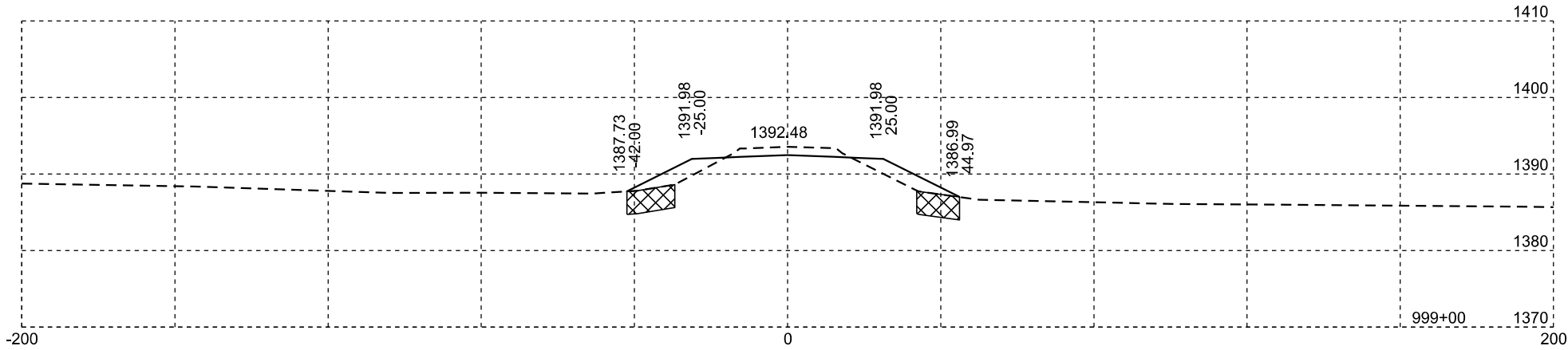
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X18	X99



Plotting Date: 01/20/2026

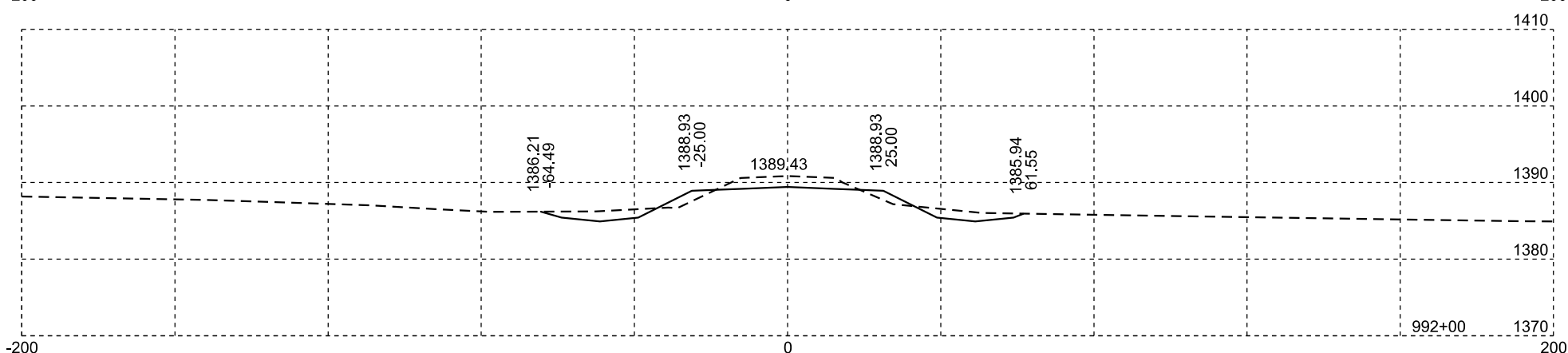
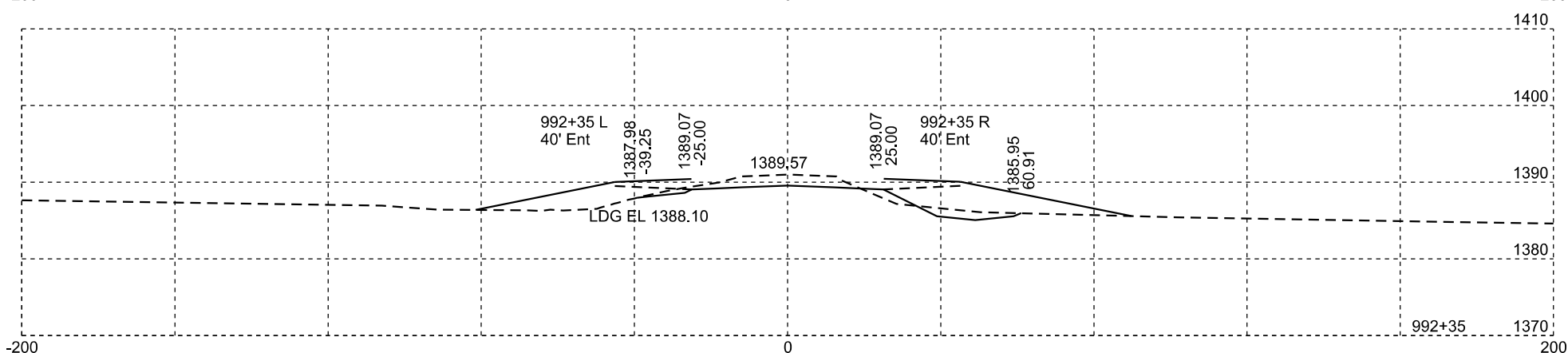
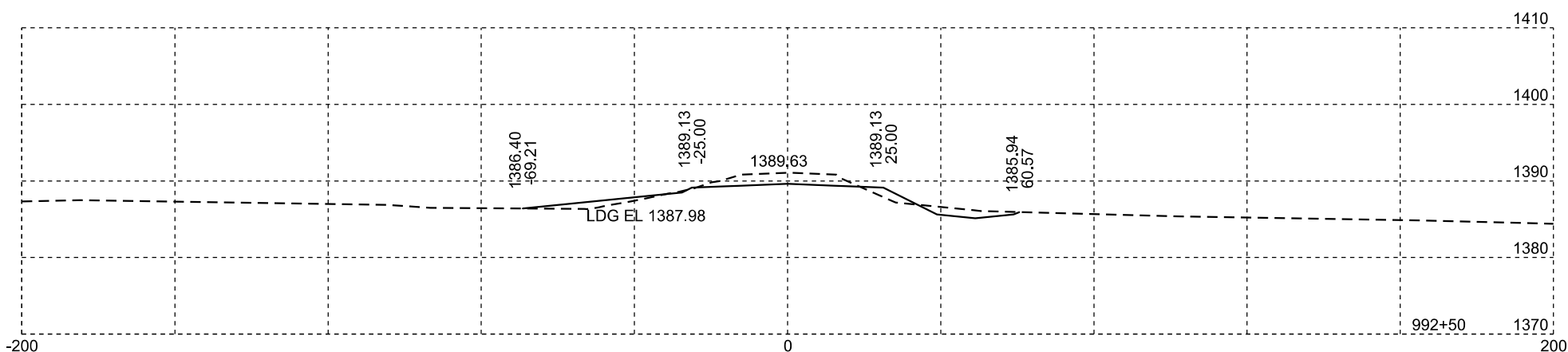
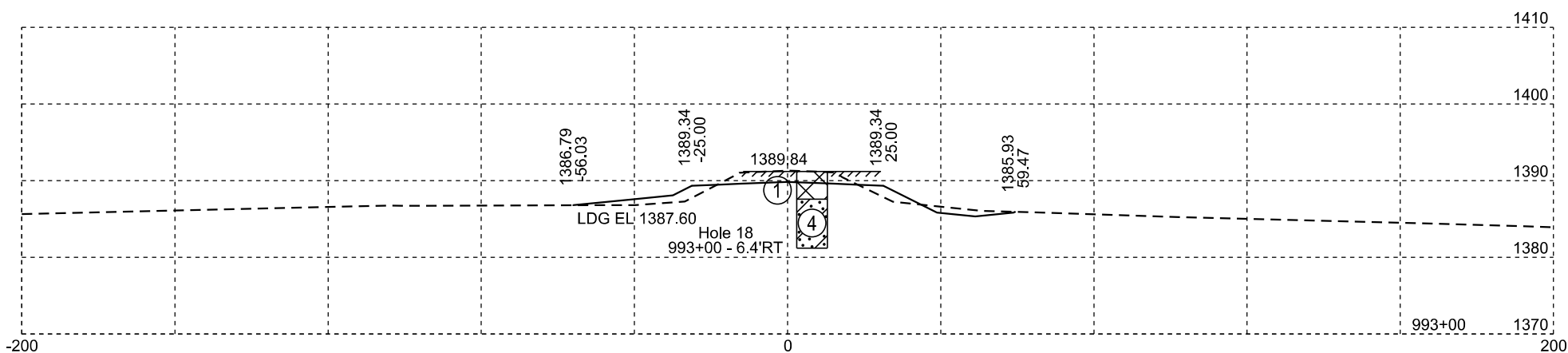
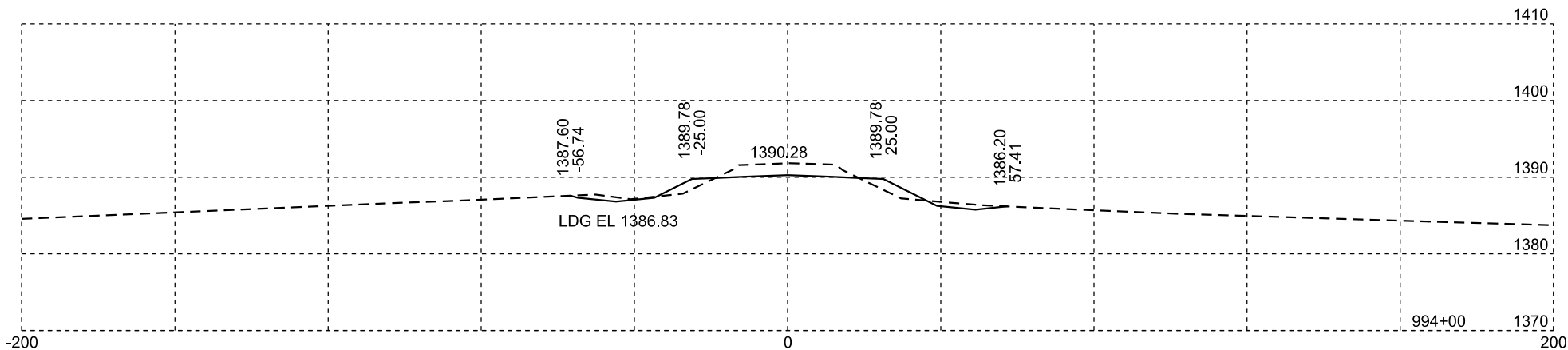
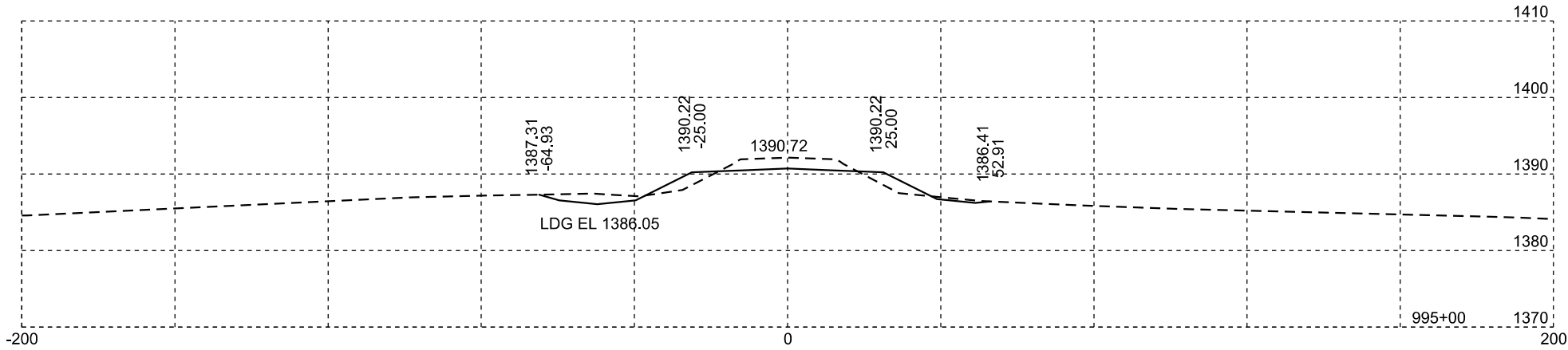
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X19	X99



Muck

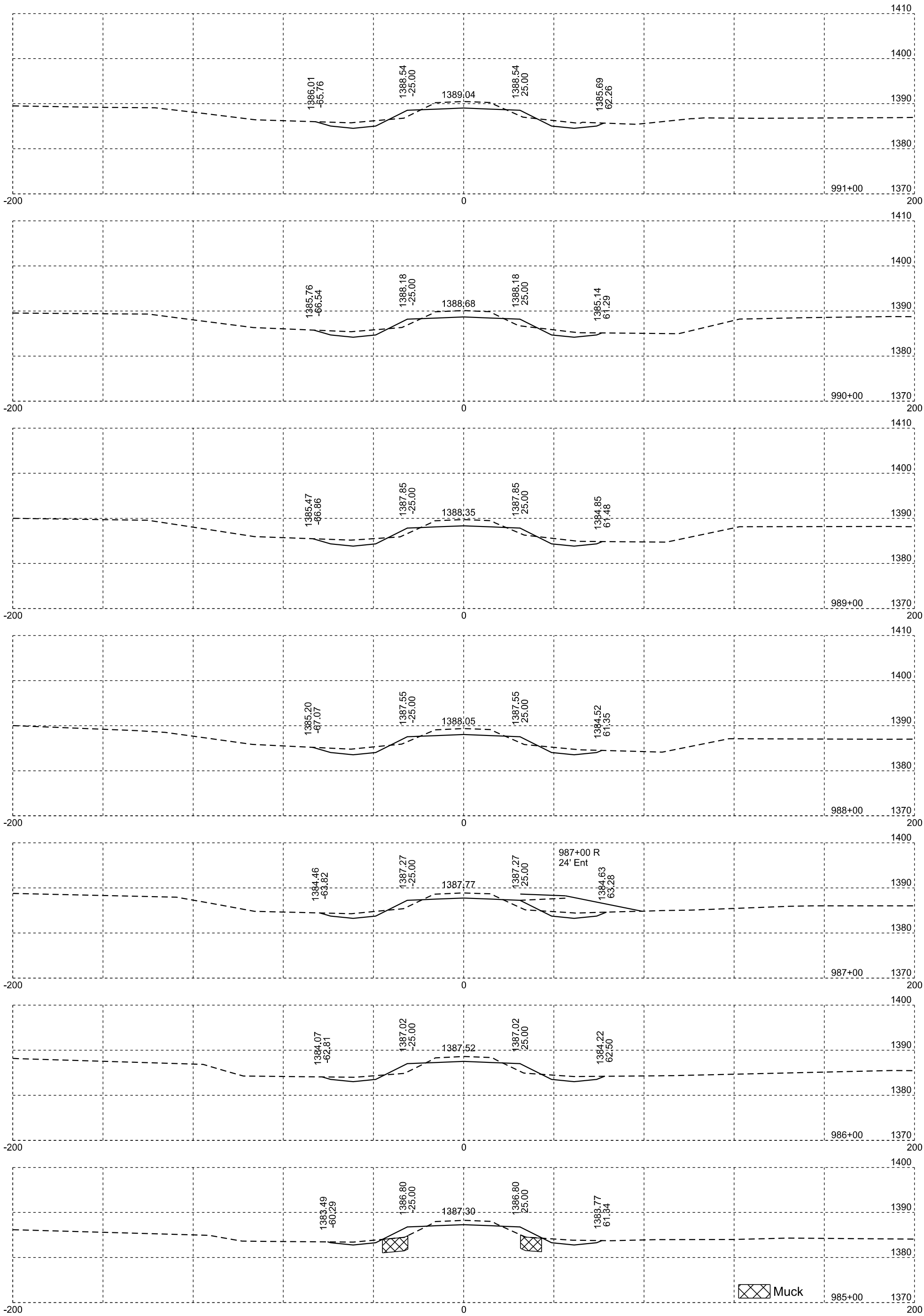
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X20	X99



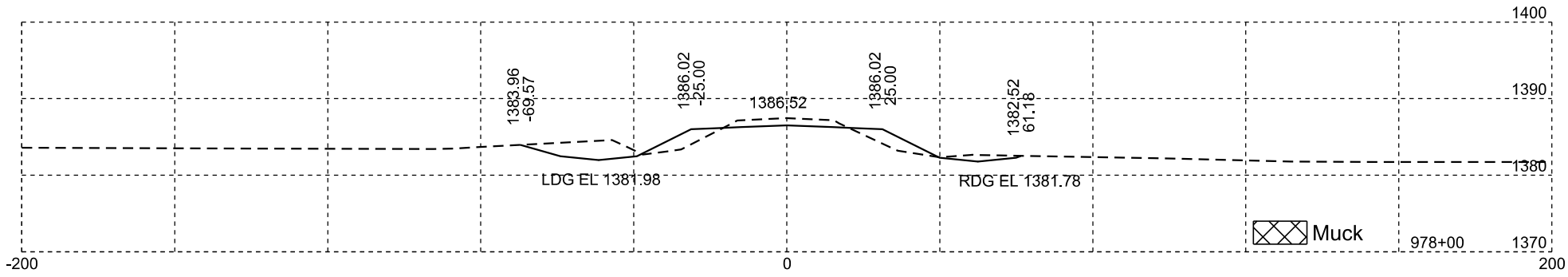
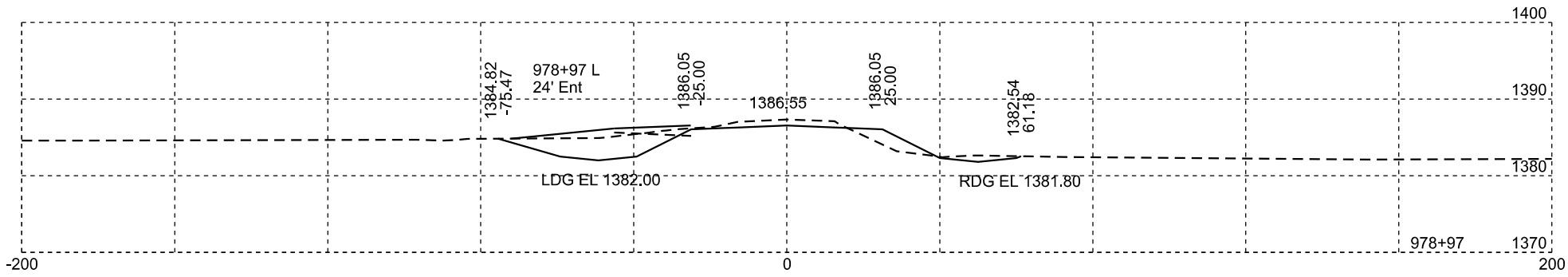
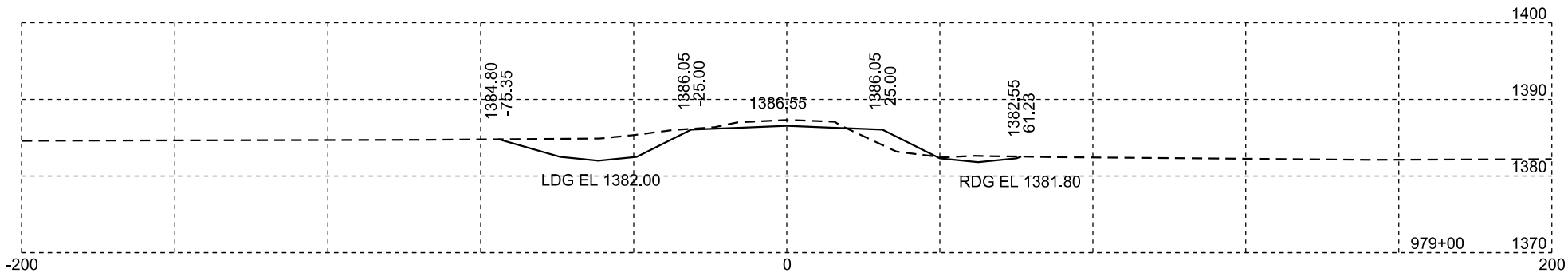
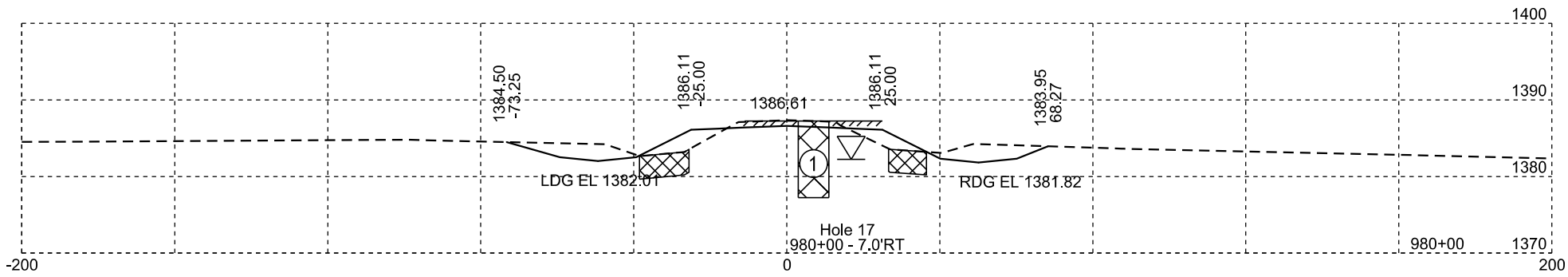
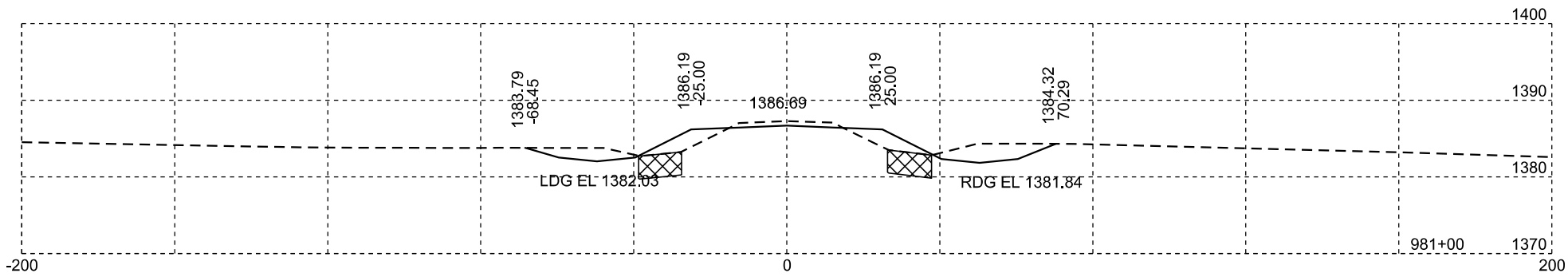
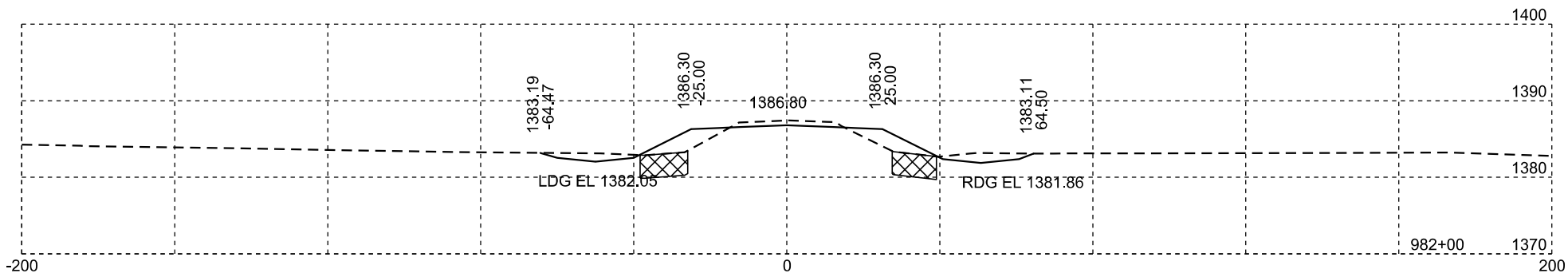
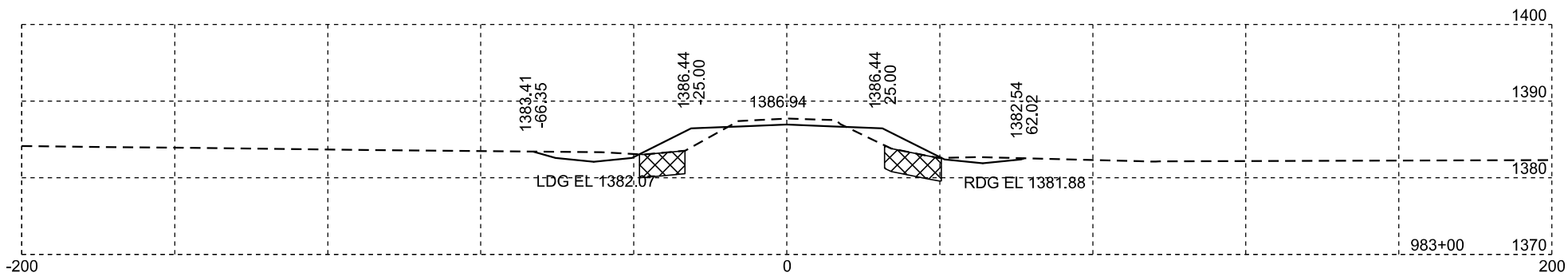
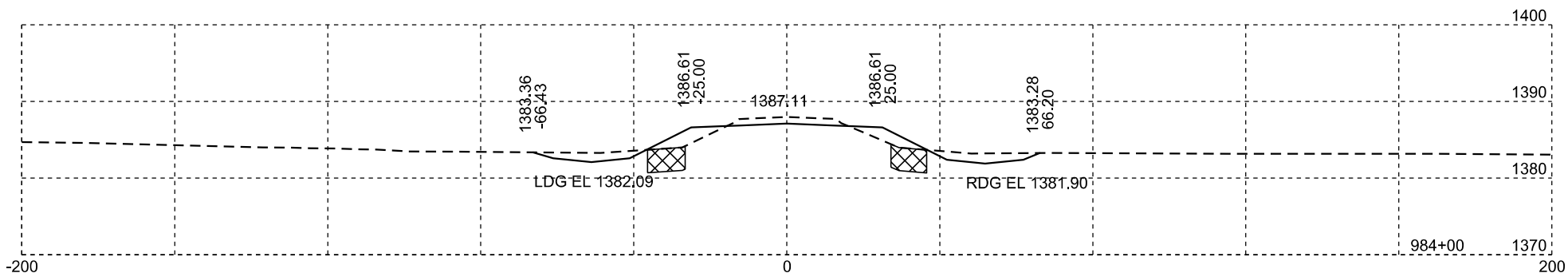
Plotting Date: 01/20/2026

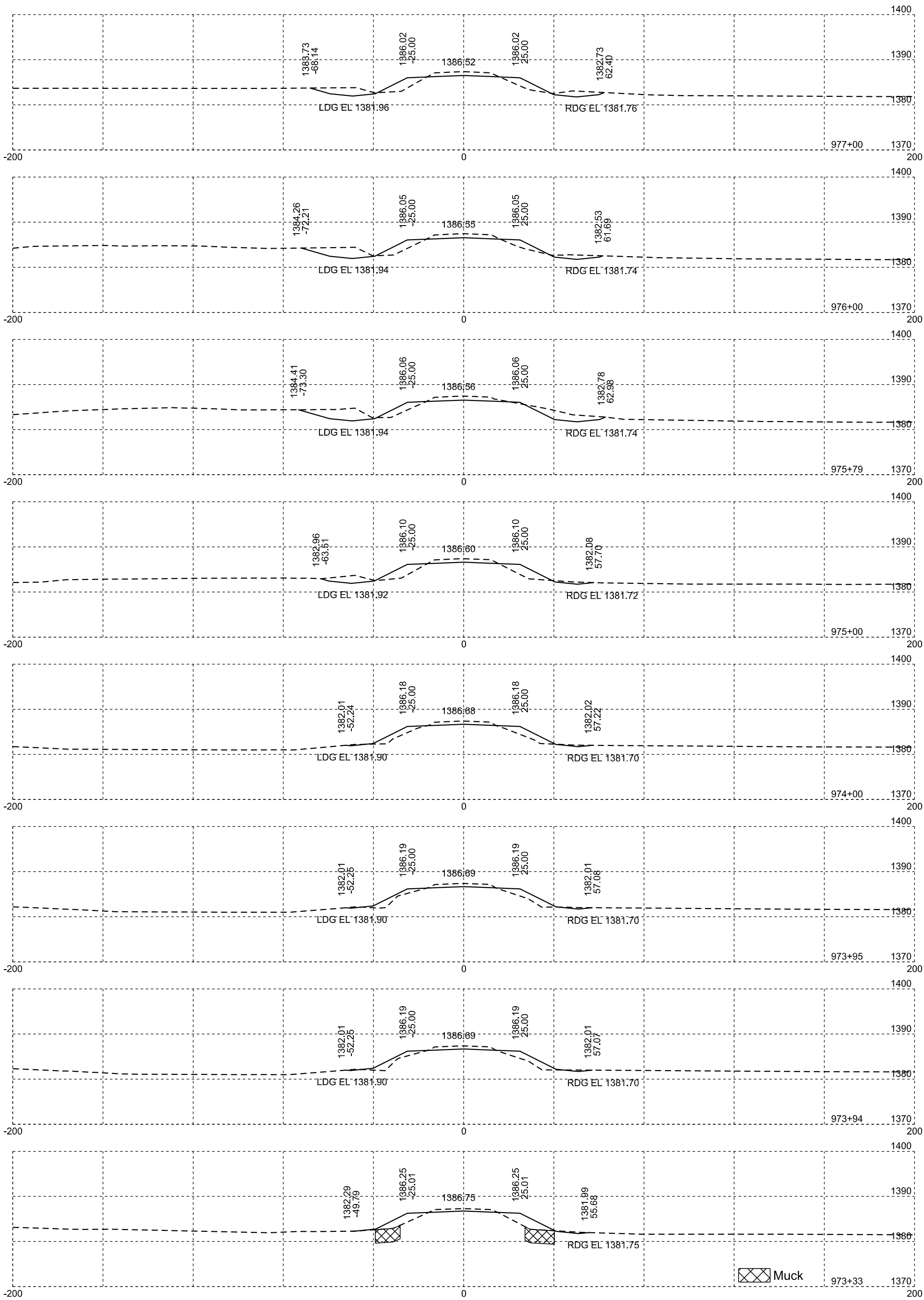
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO. X21	TOTAL SHEETS X99
	P-PH 0038(48)306		



Plotting Date: 01/20/2026

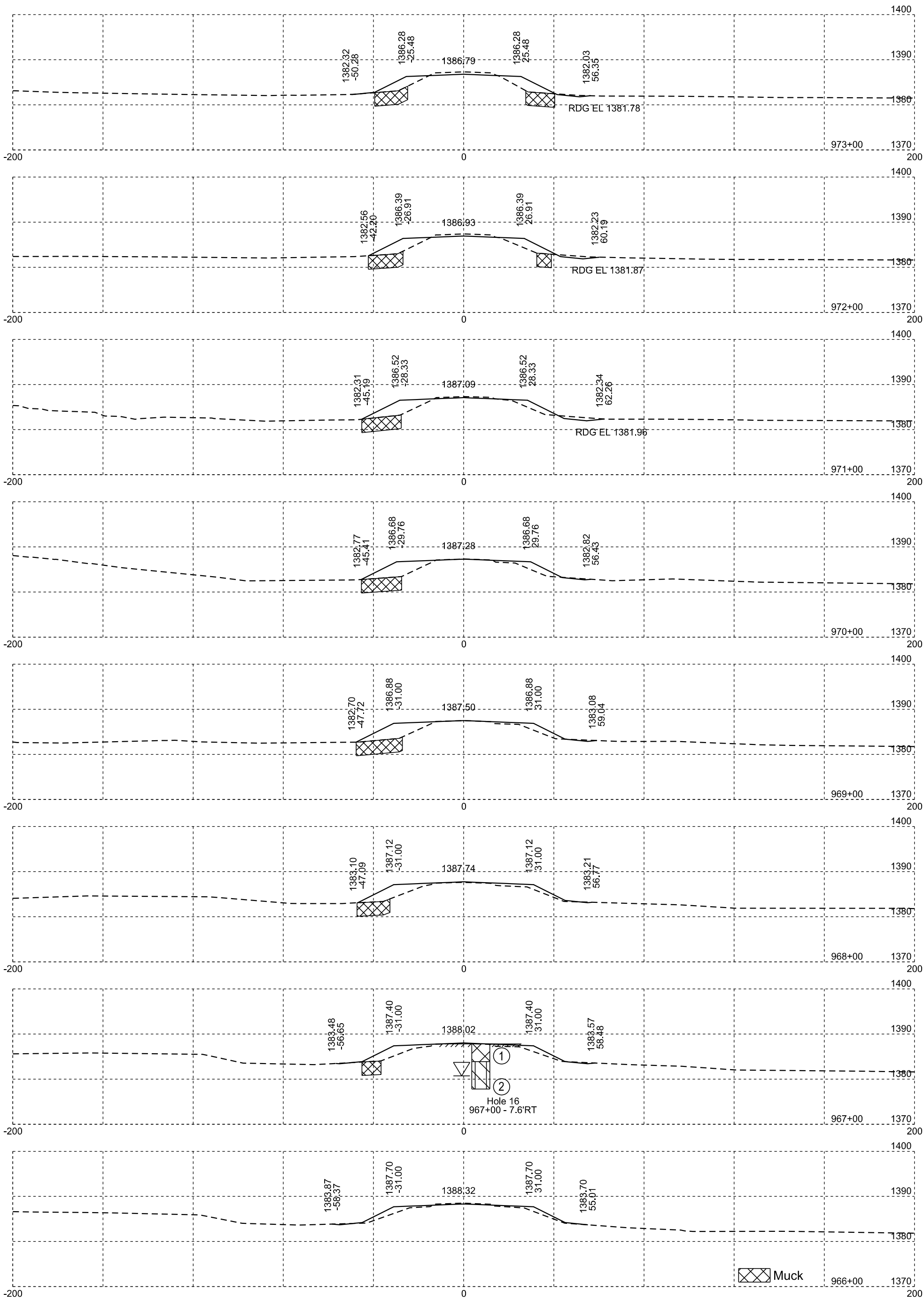
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X22	X99





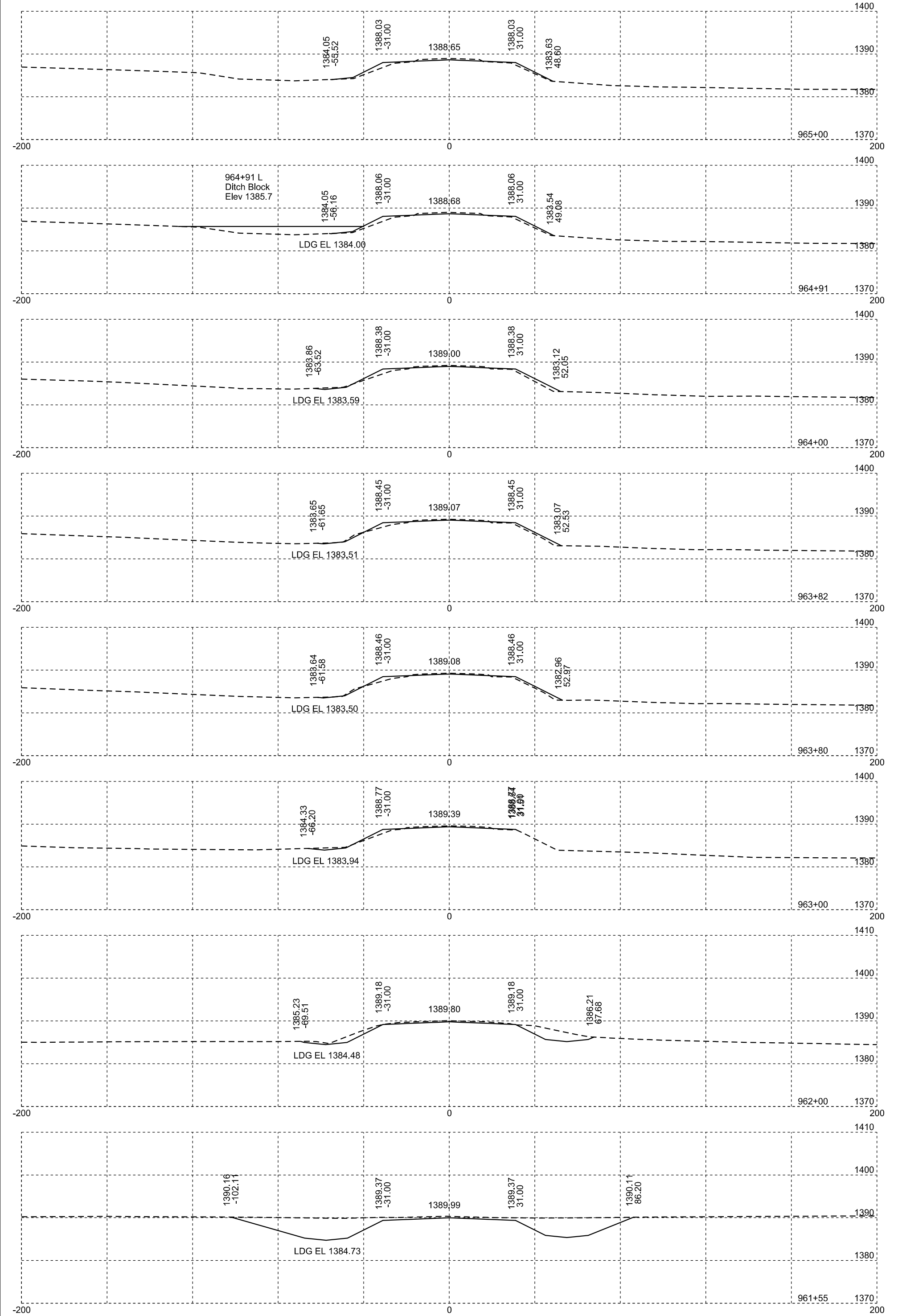
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X24	X99



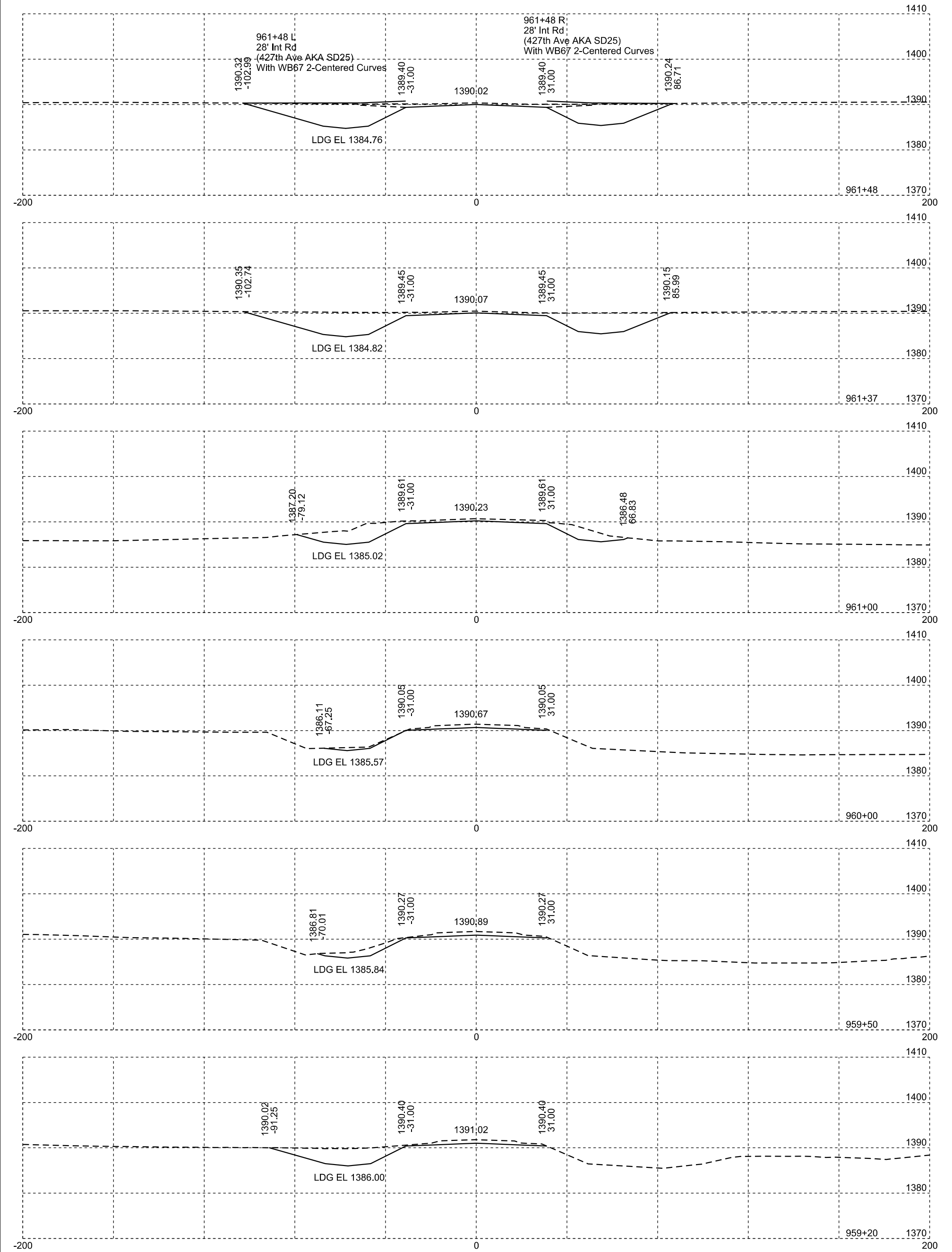
Plotting Date: 01/20/2026

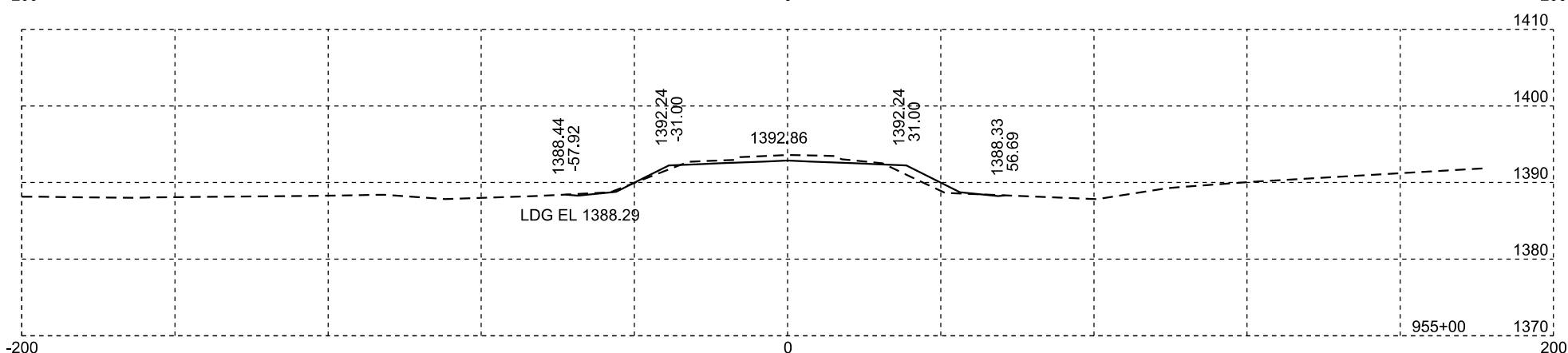
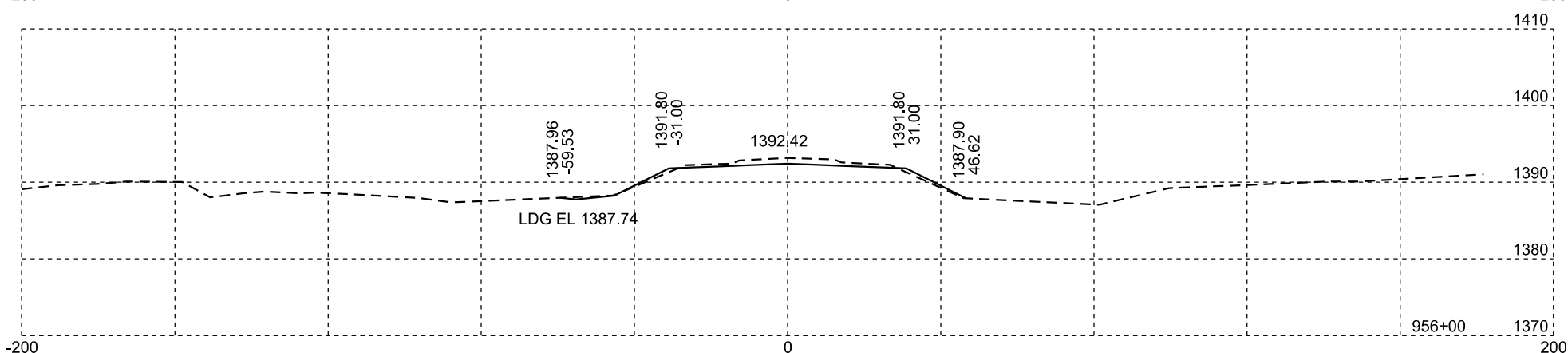
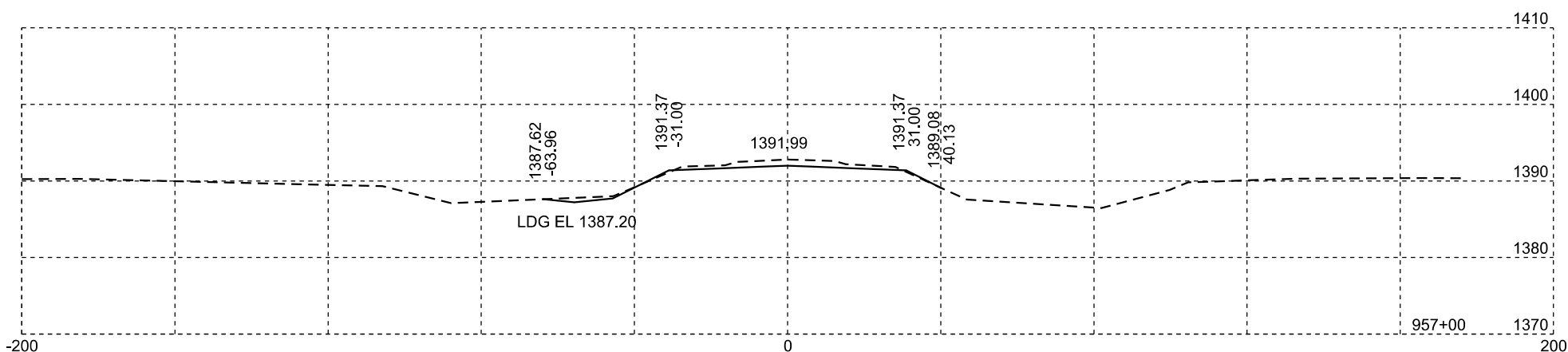
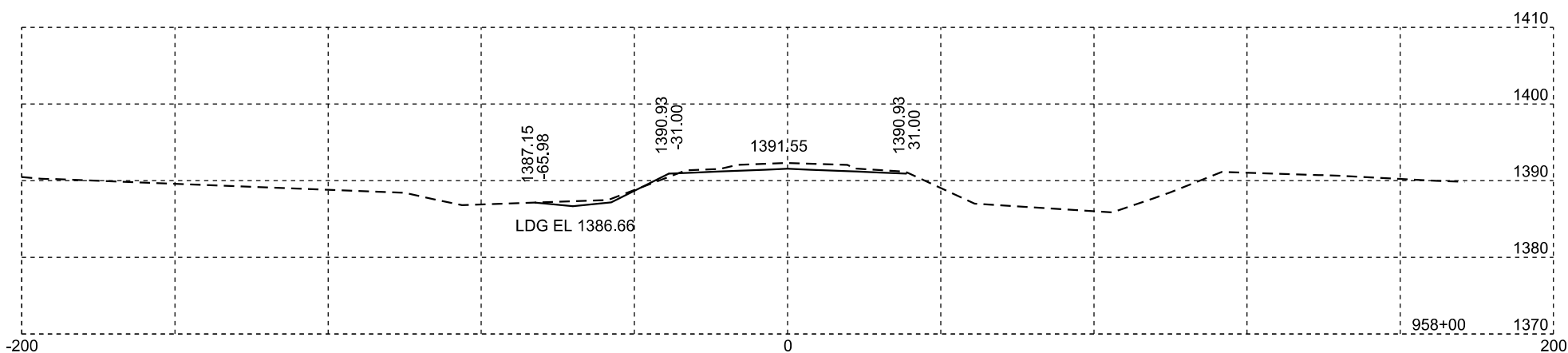
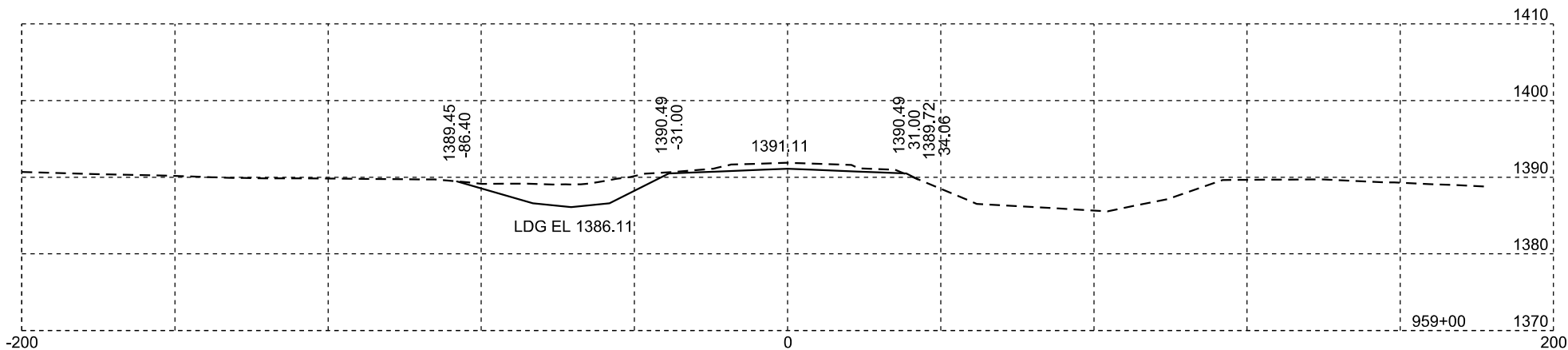
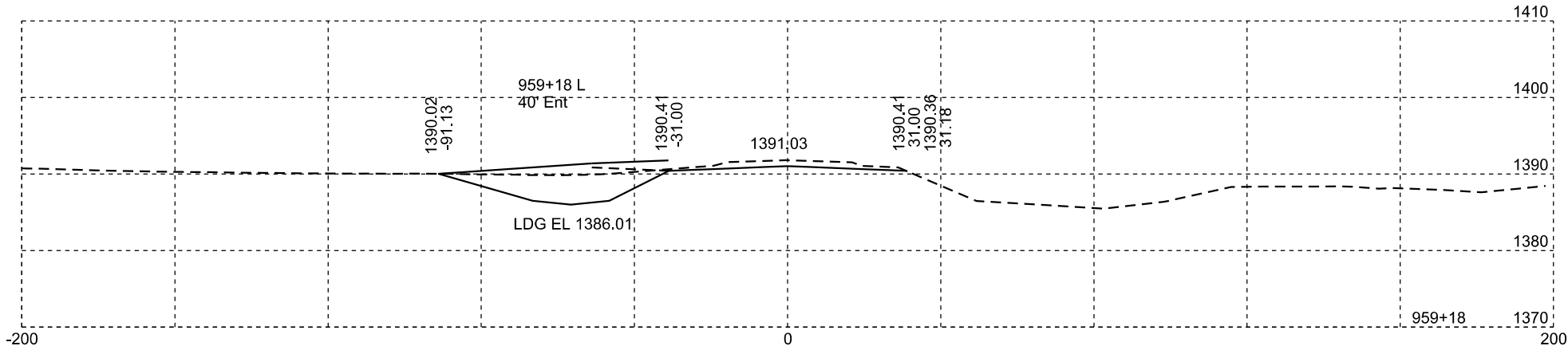
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X25	X99

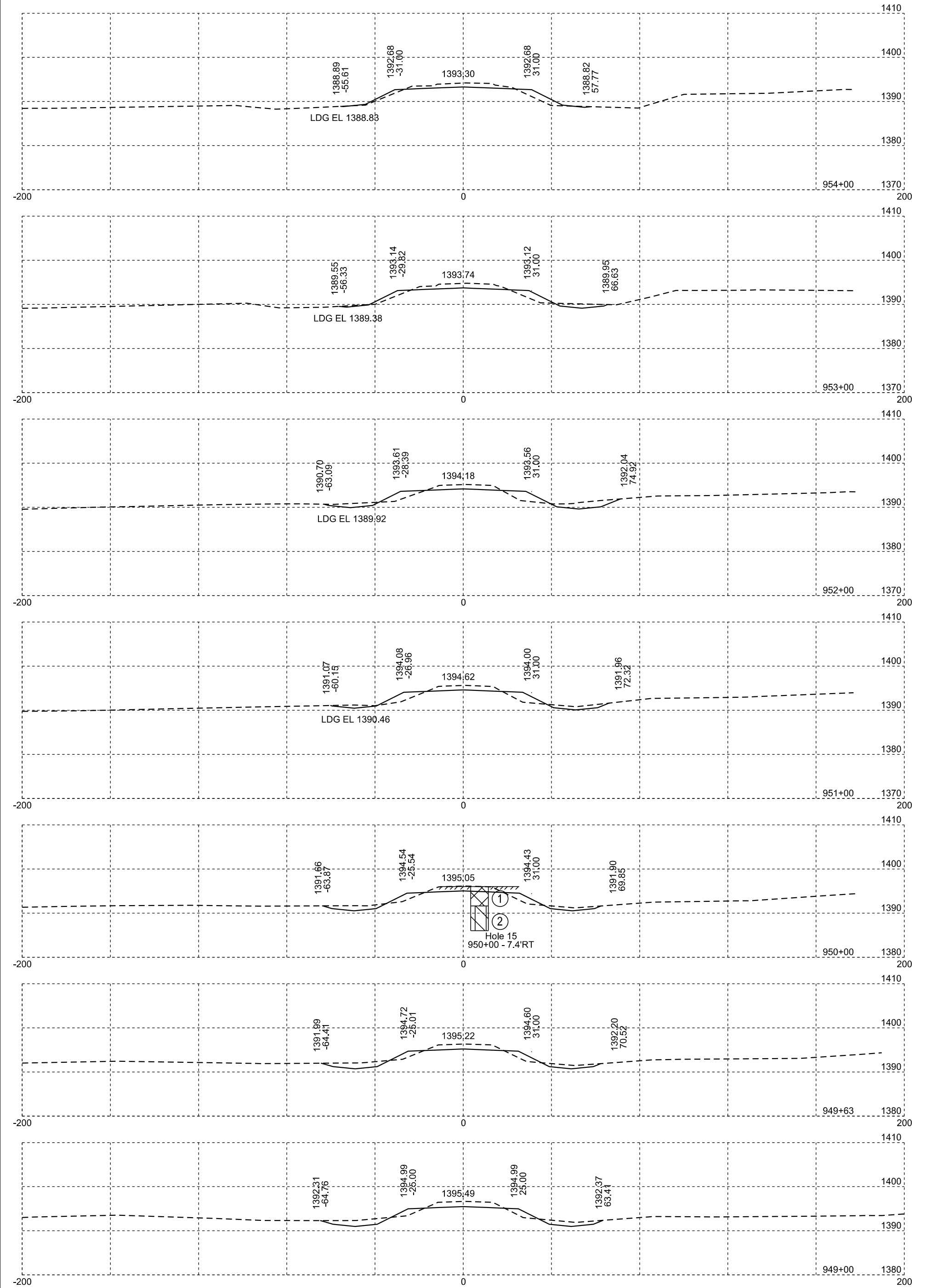


Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X26	X99

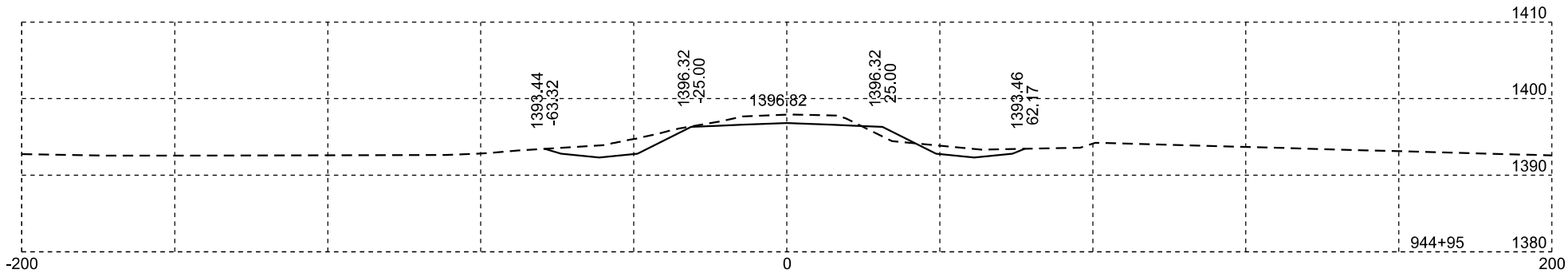
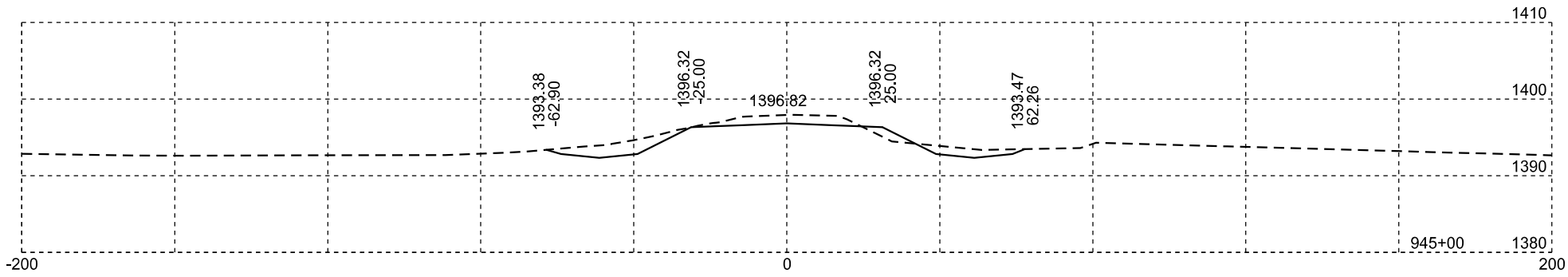
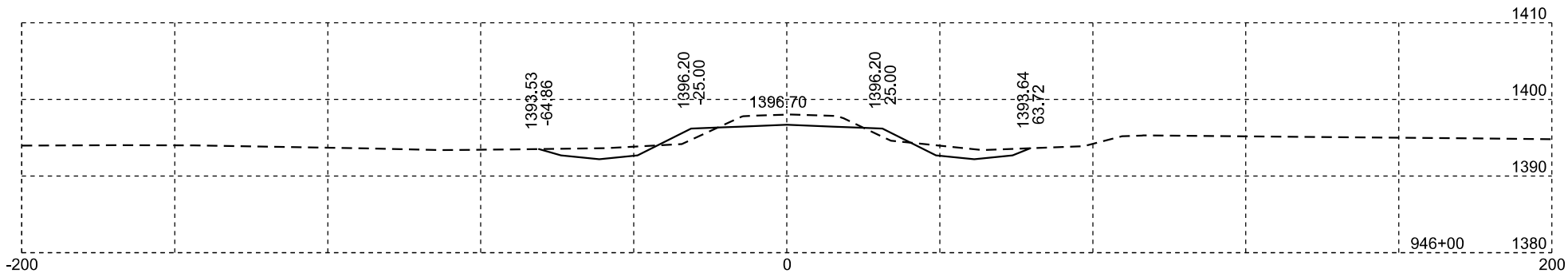
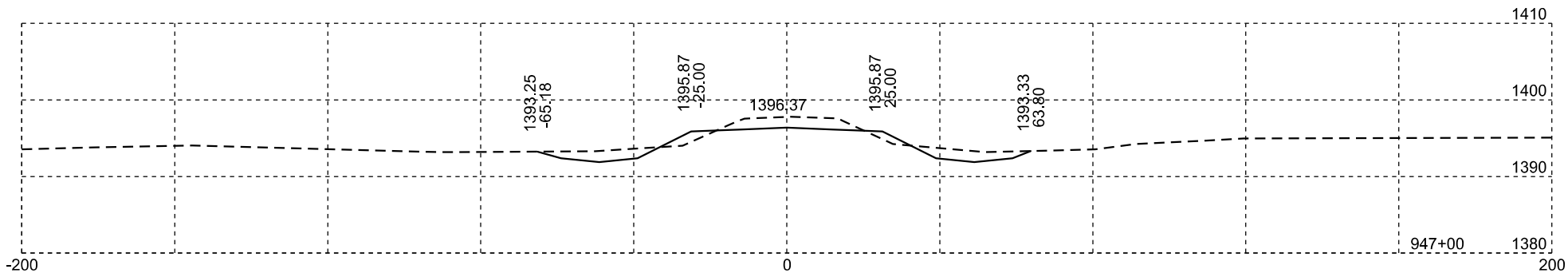
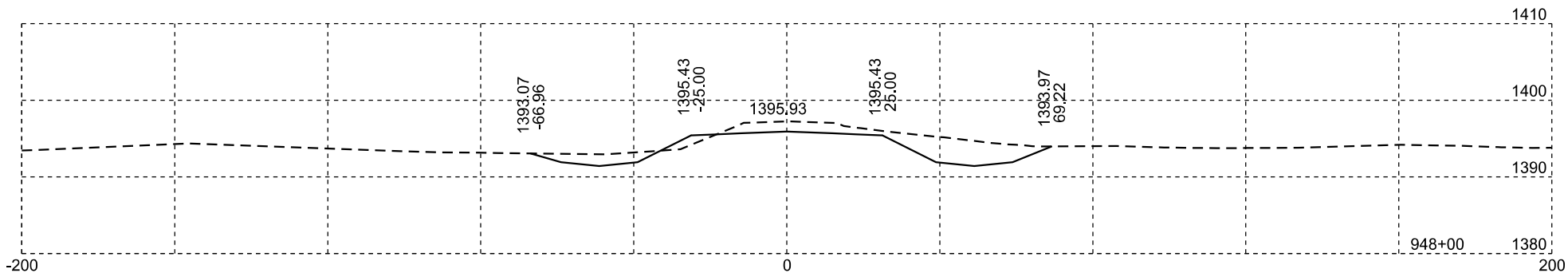
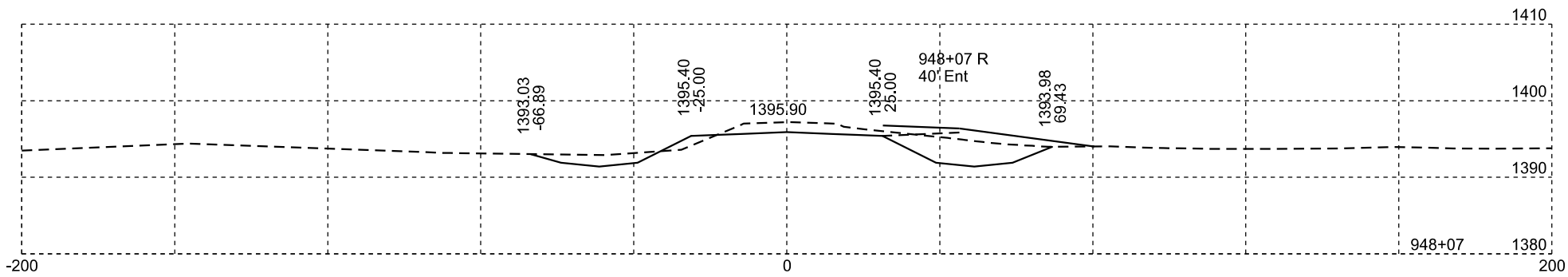
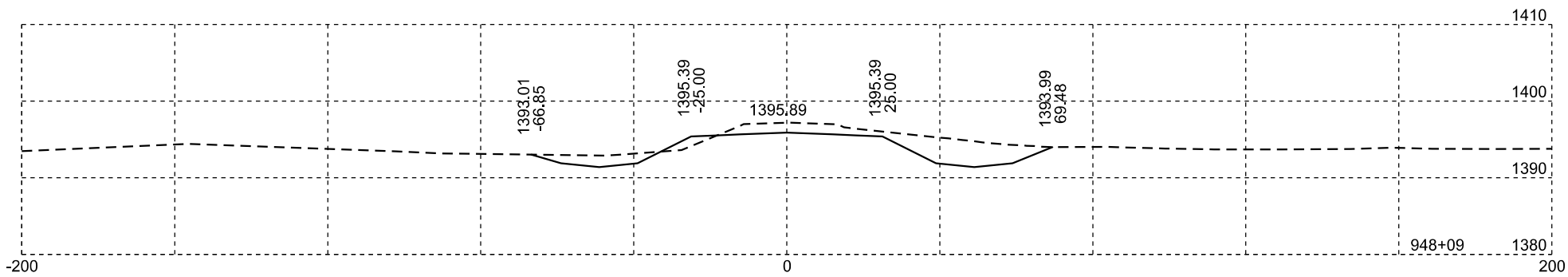
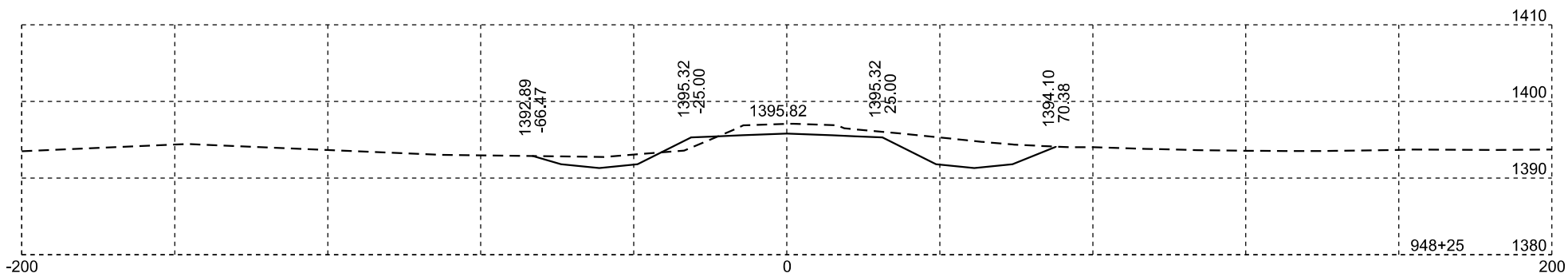


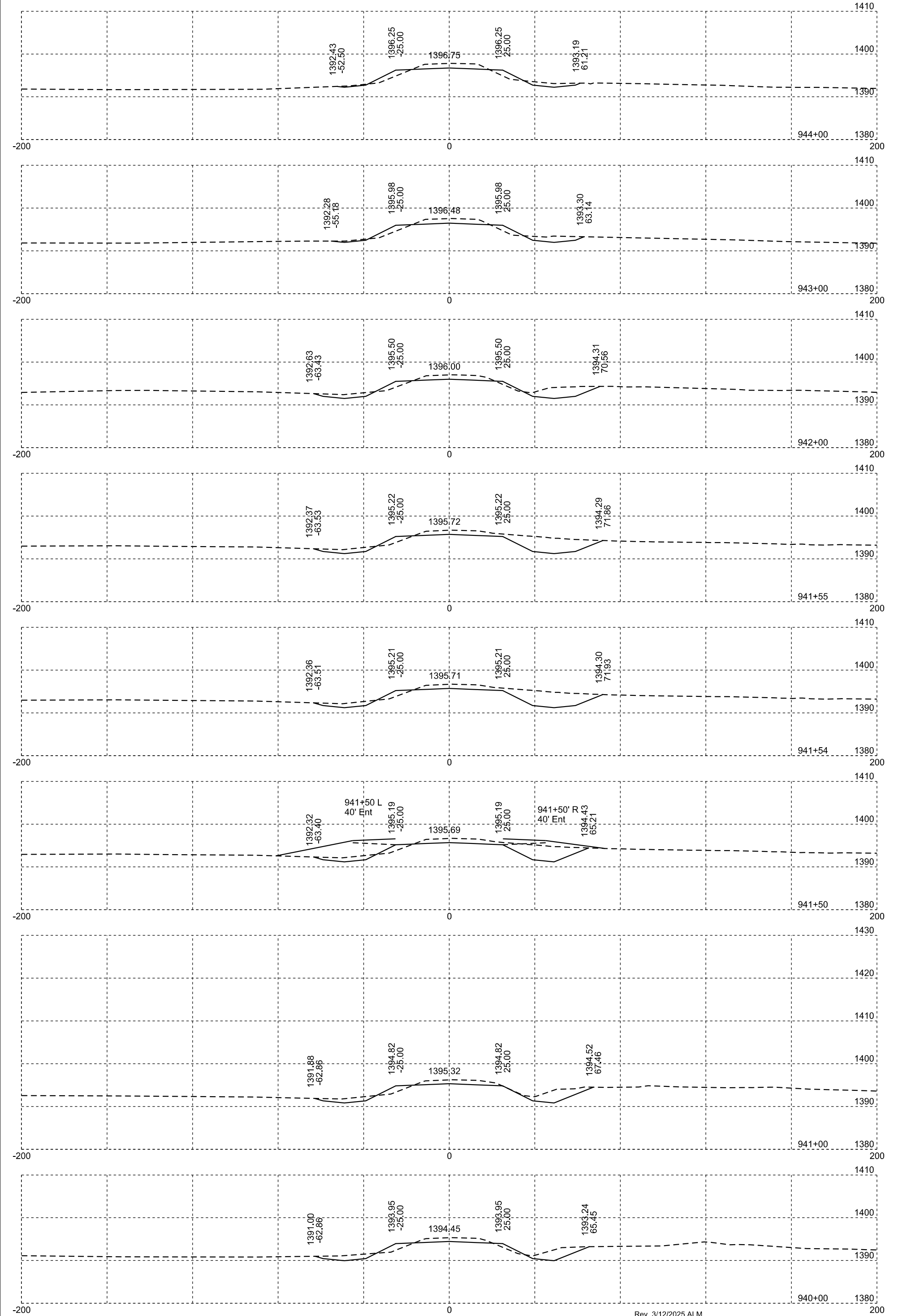




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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X29	X99

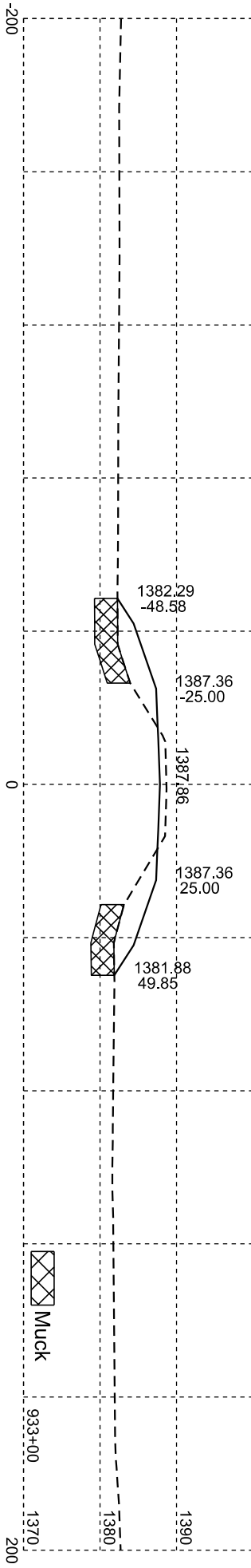
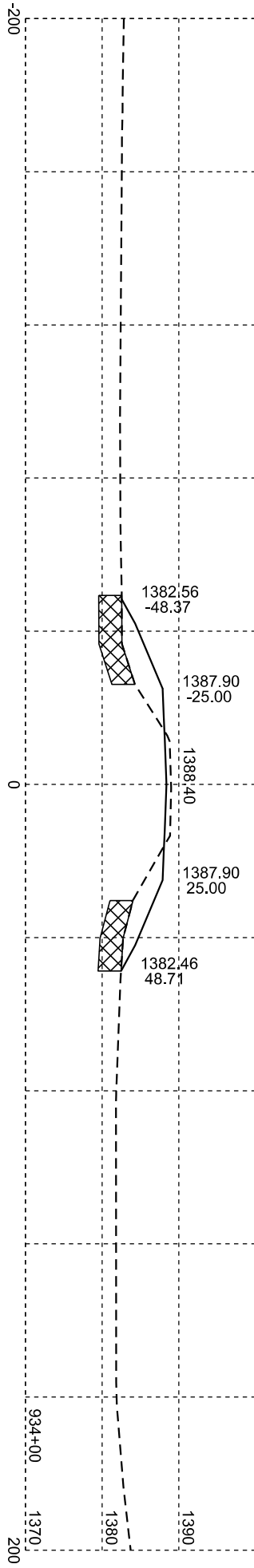
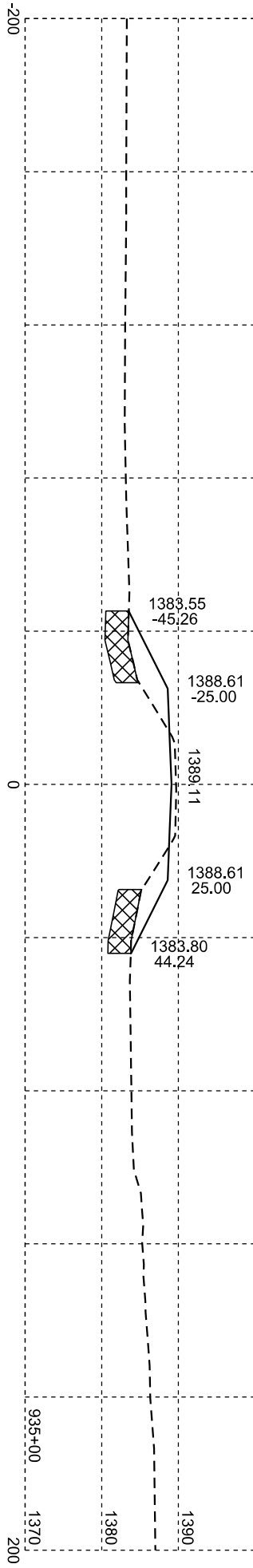
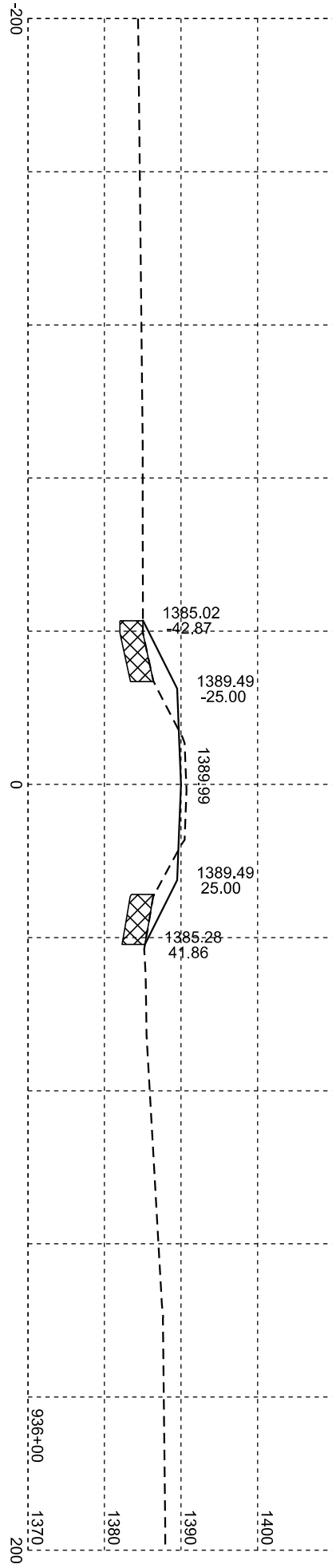
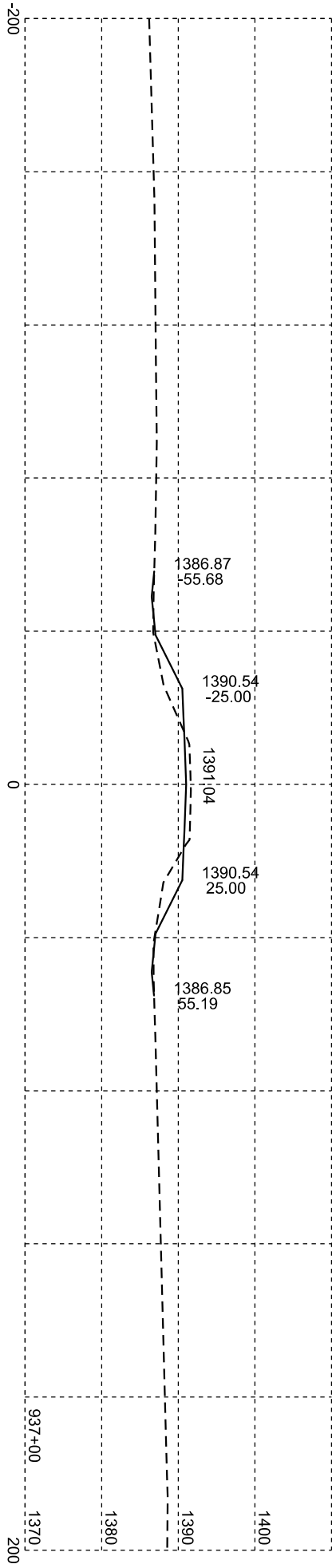
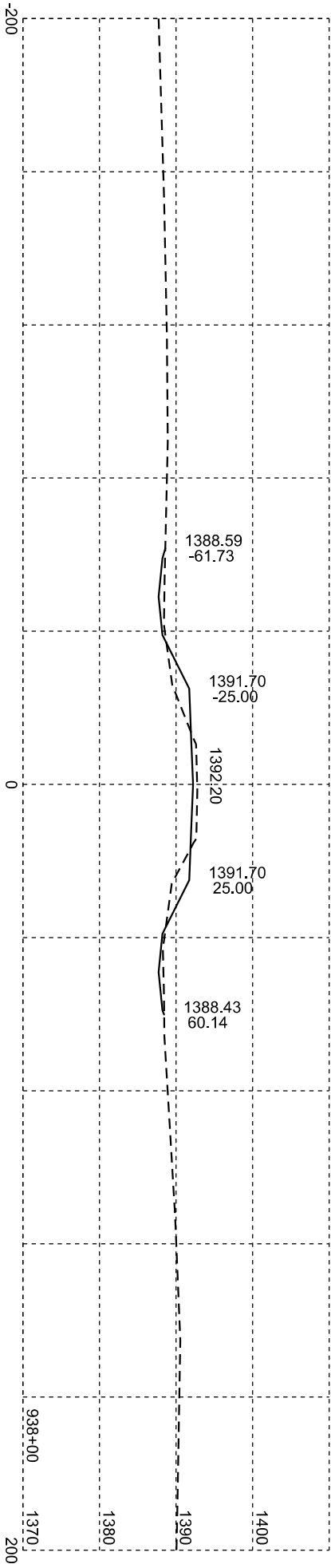
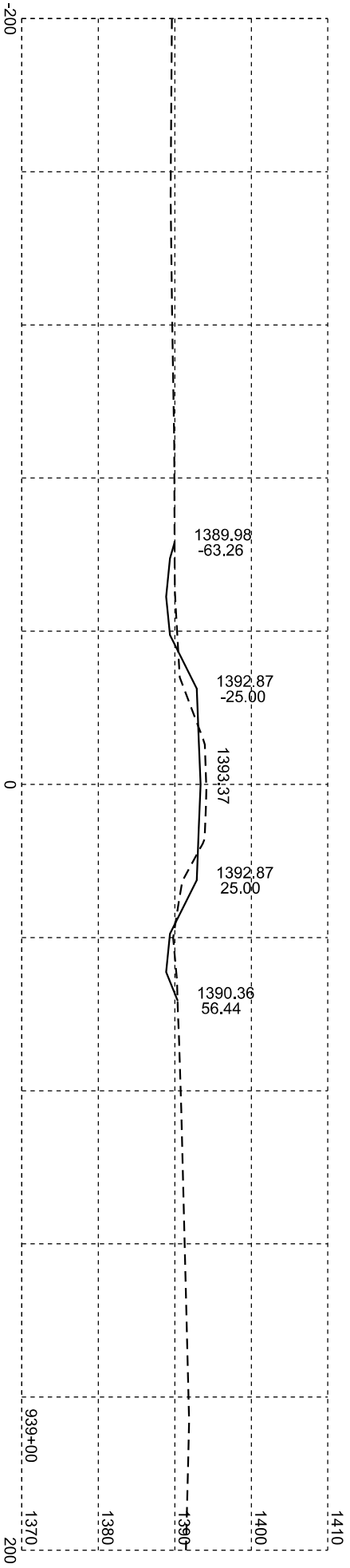




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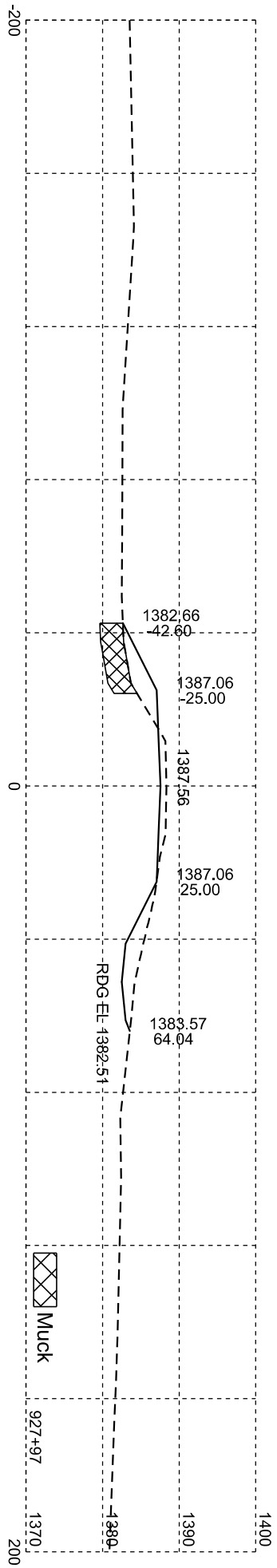
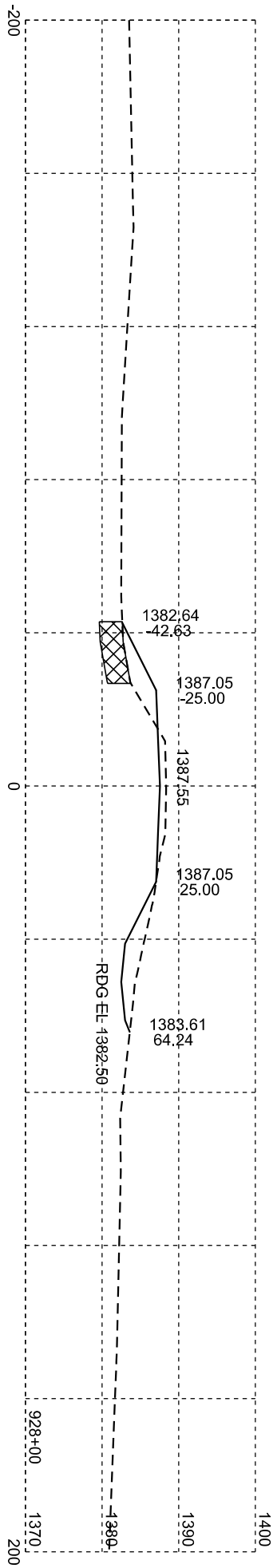
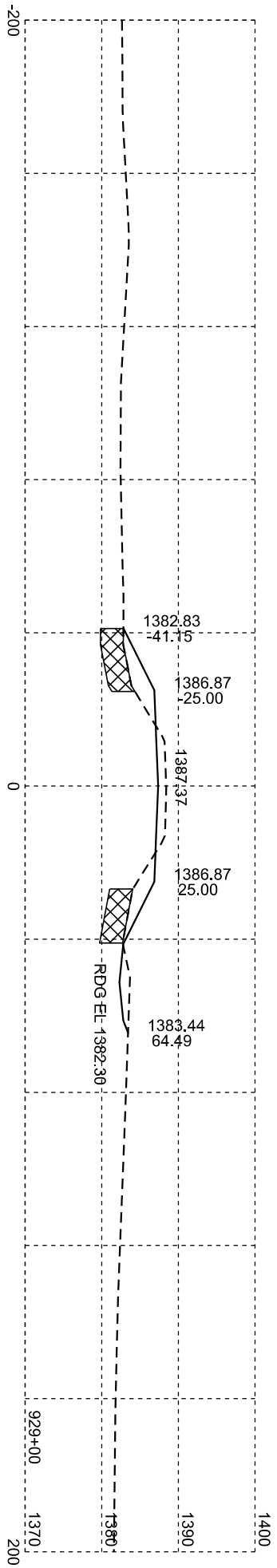
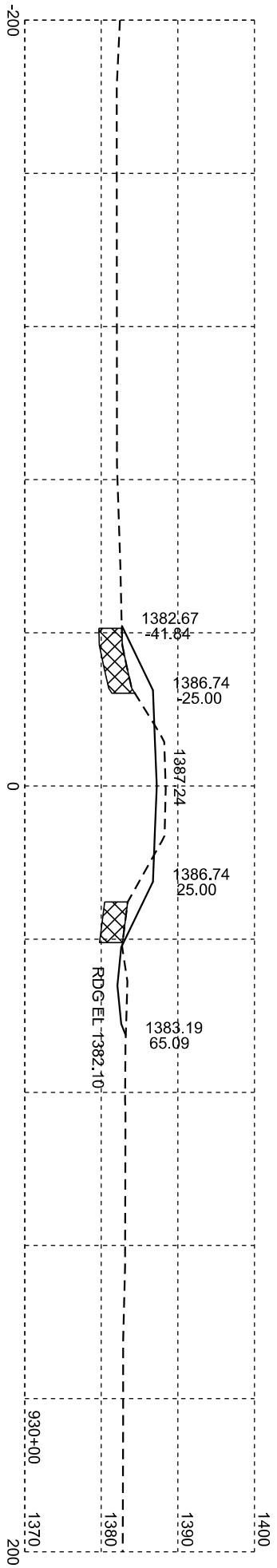
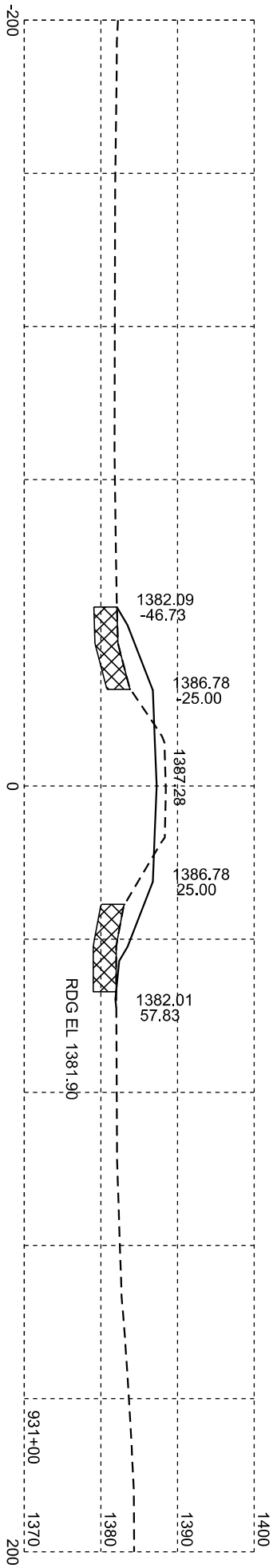
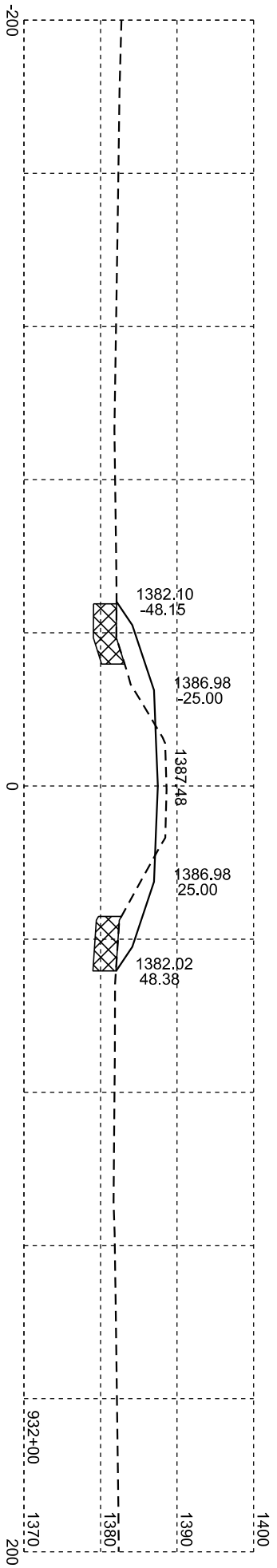
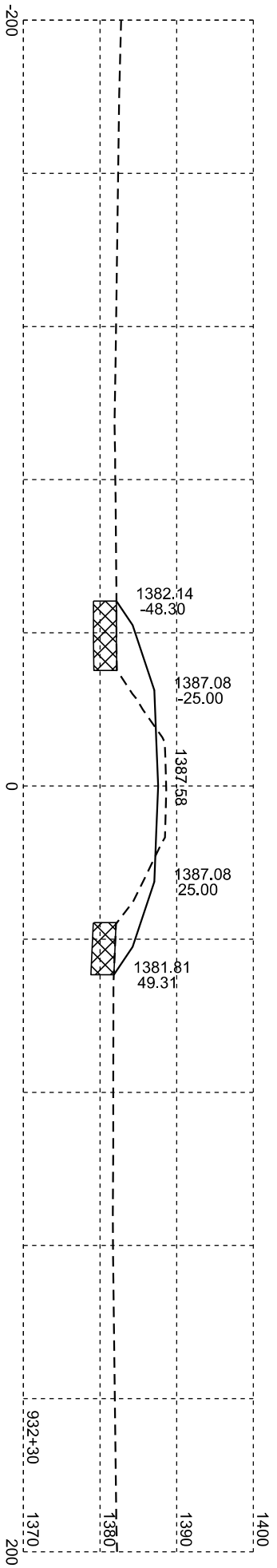
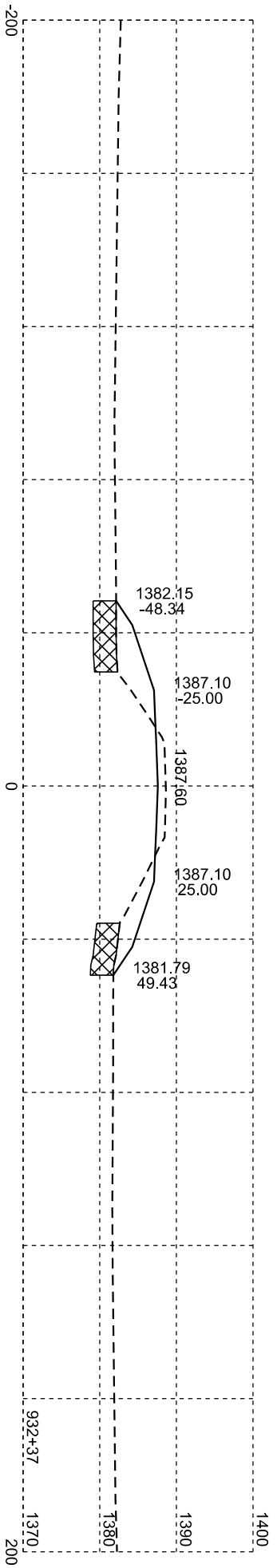
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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X31	X99



Plotting Date: 01/20/2026

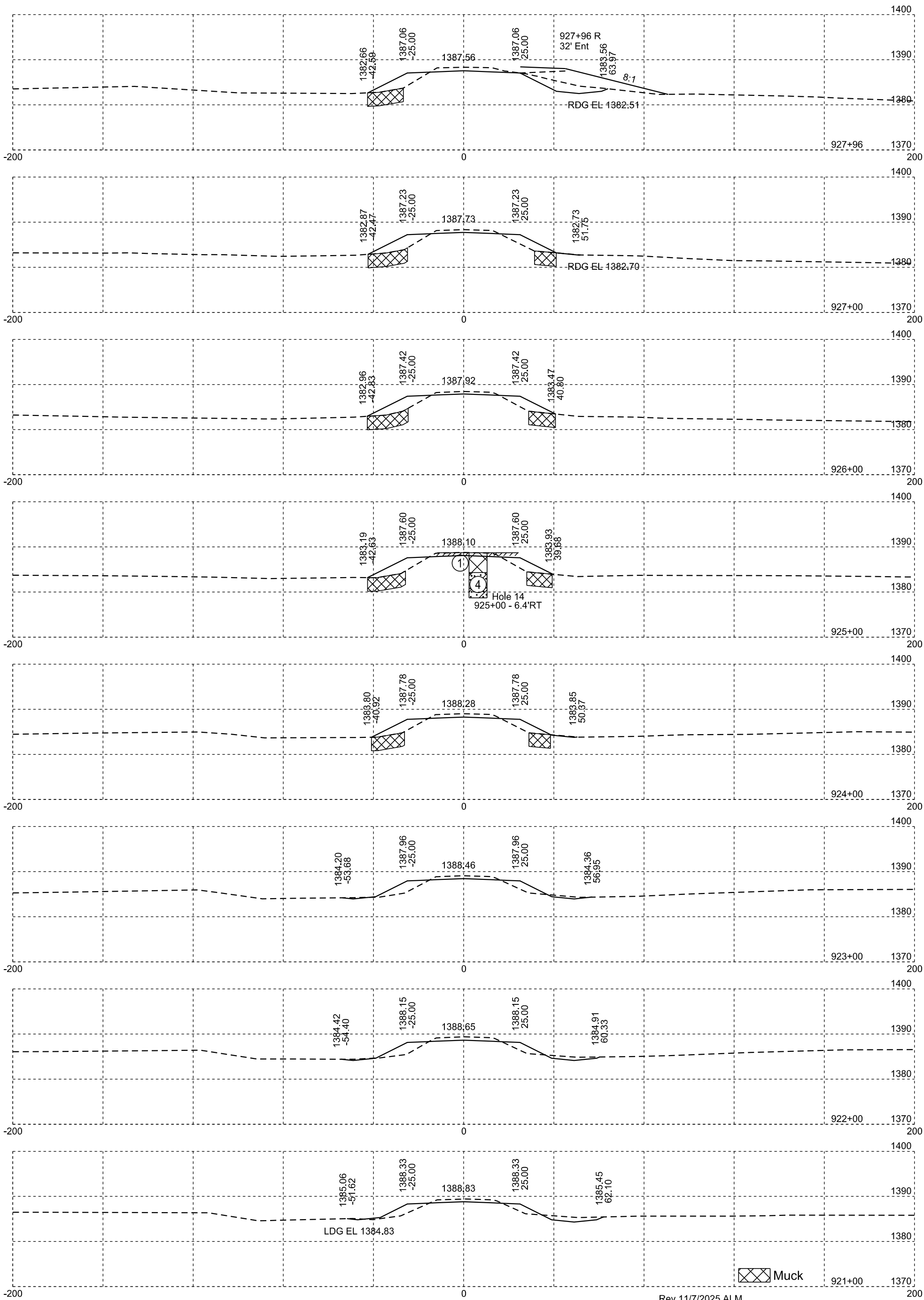
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X32	X99



Muck

Plotting Date: 01/20/2026

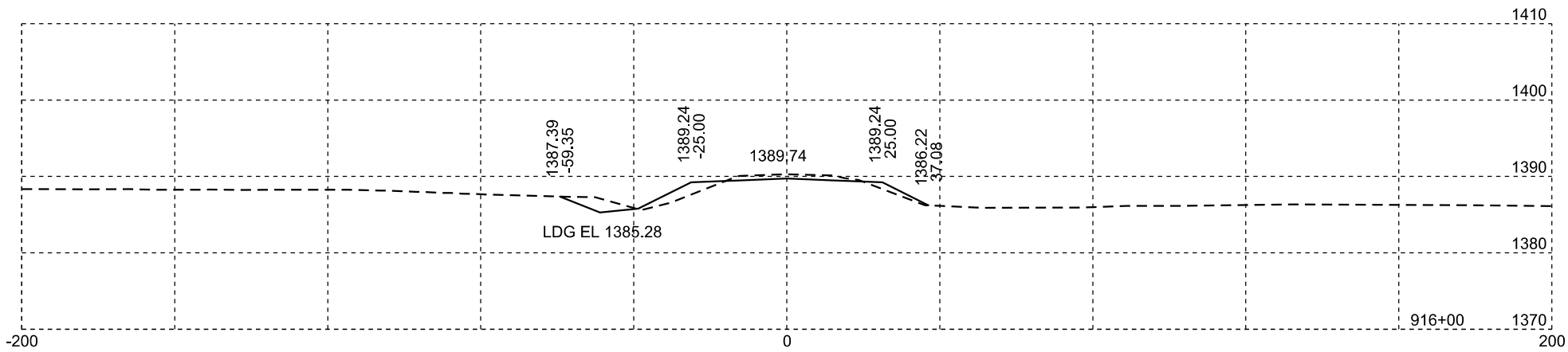
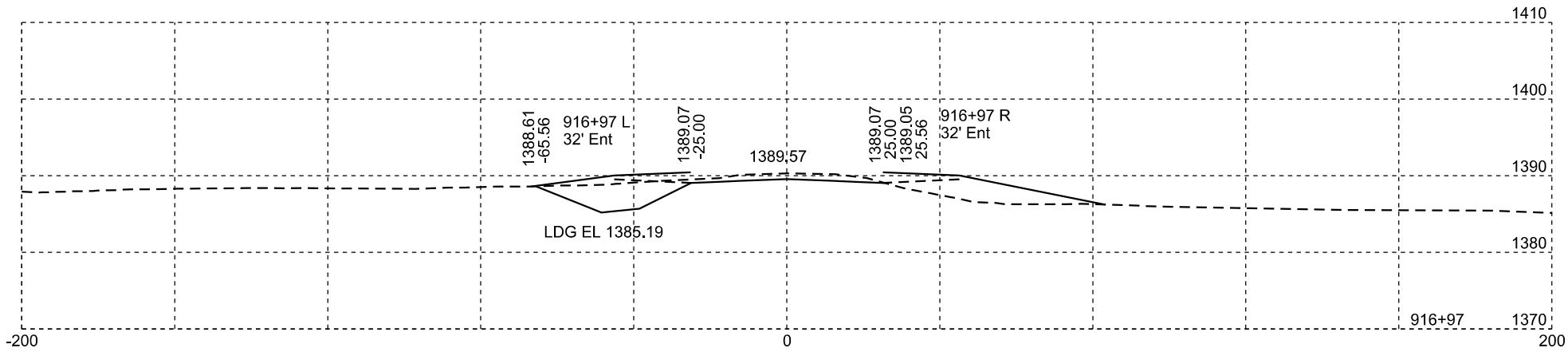
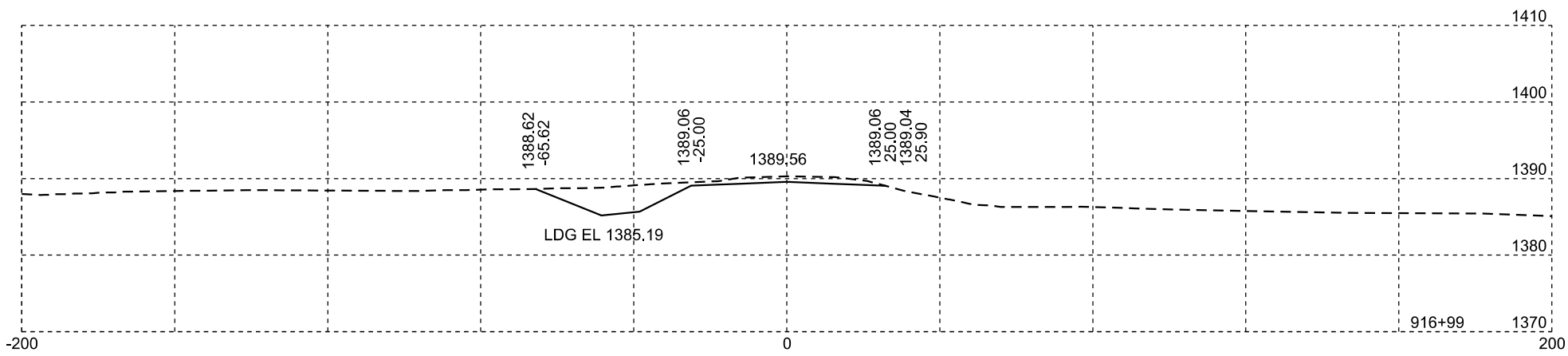
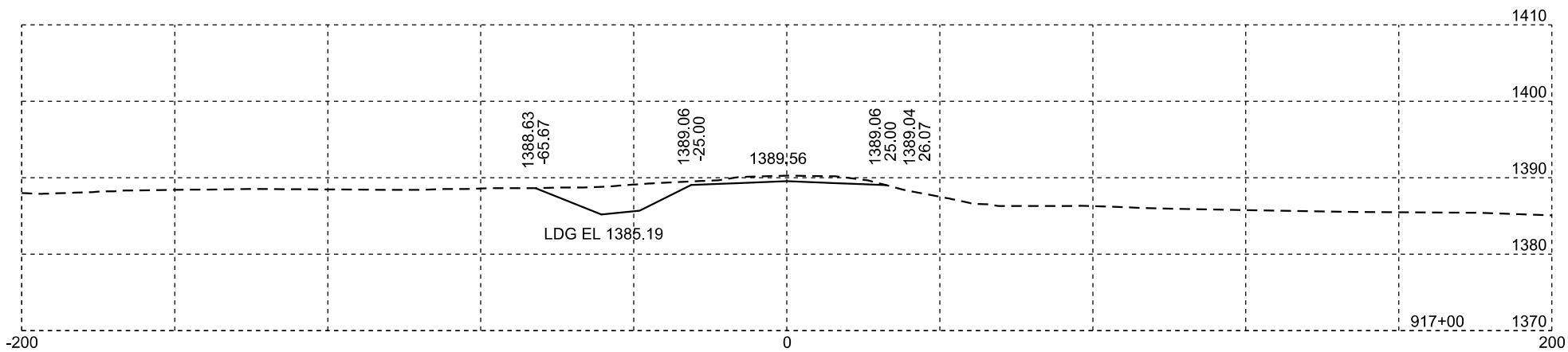
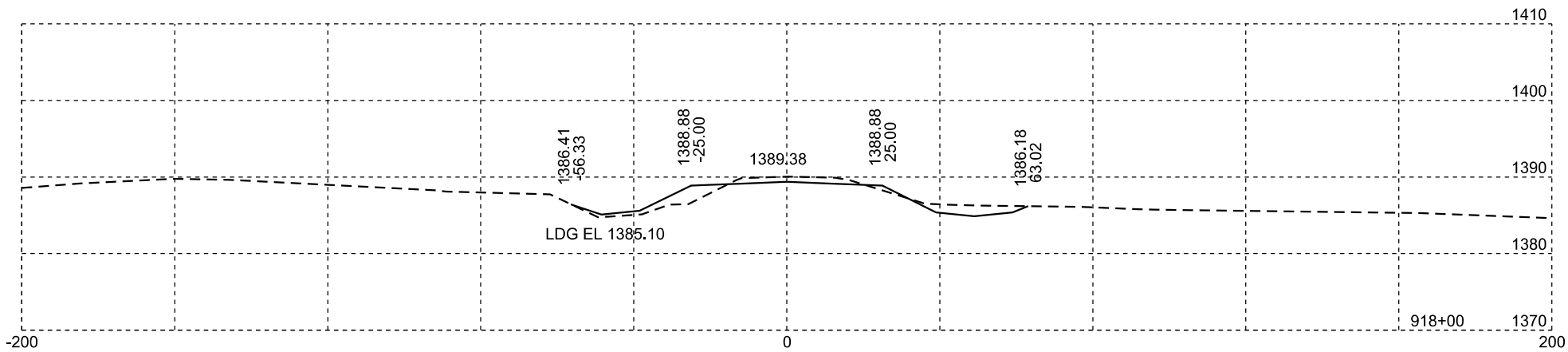
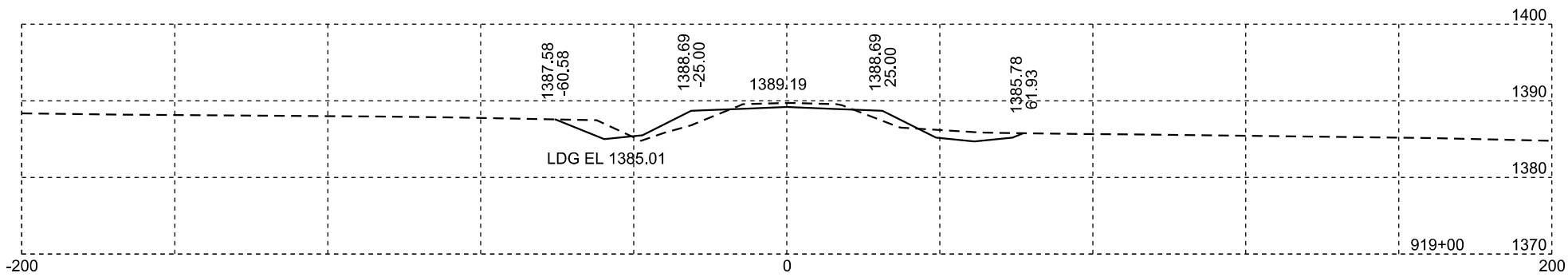
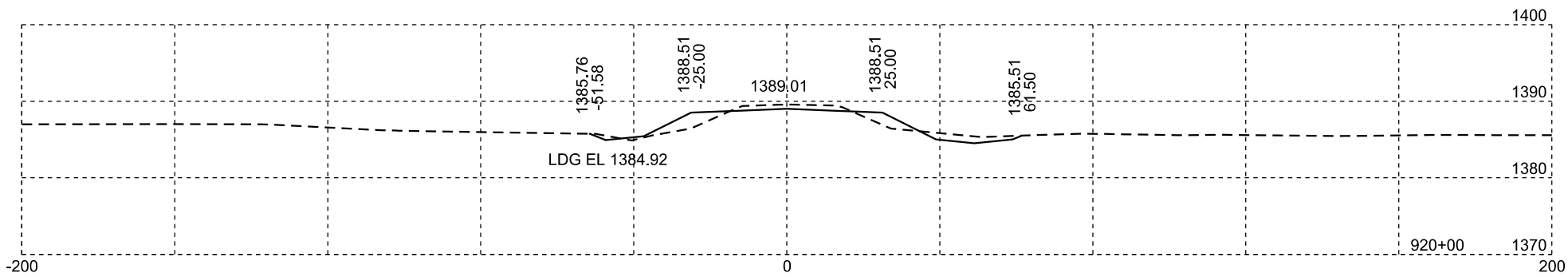
PROJECT		TOTAL	
STATE OF SOUTH DAKOTA	P-PH 0038(48)306	SHEET NO. X33	SHEETS X99

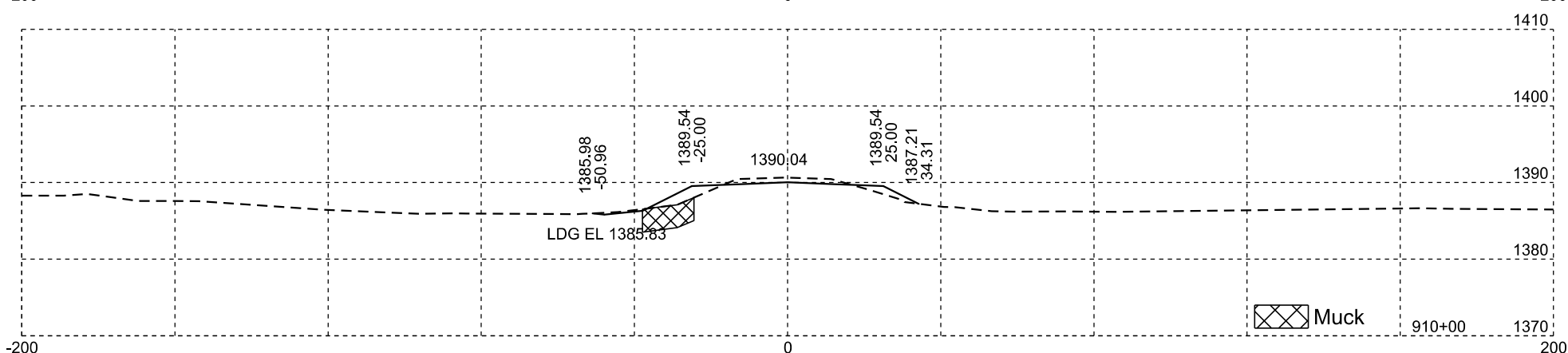
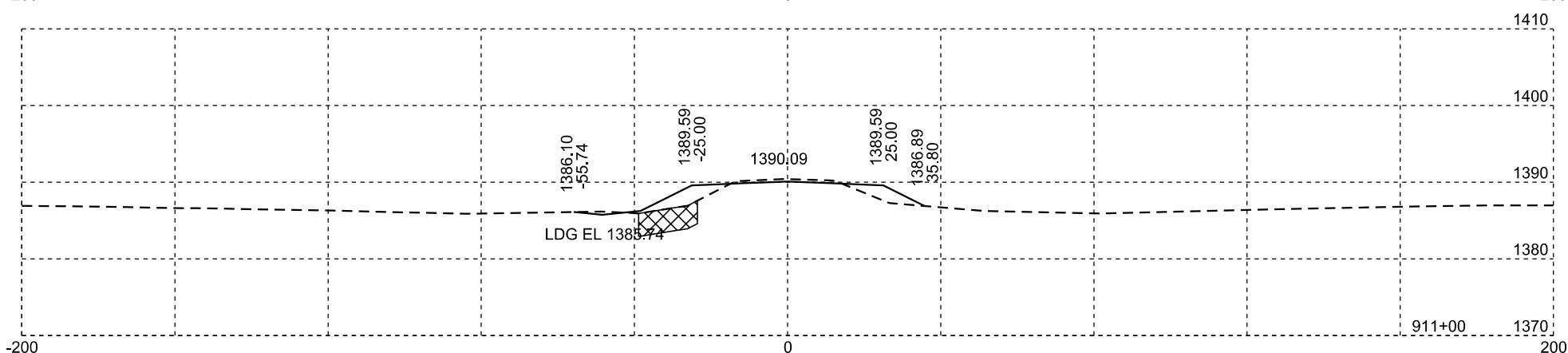
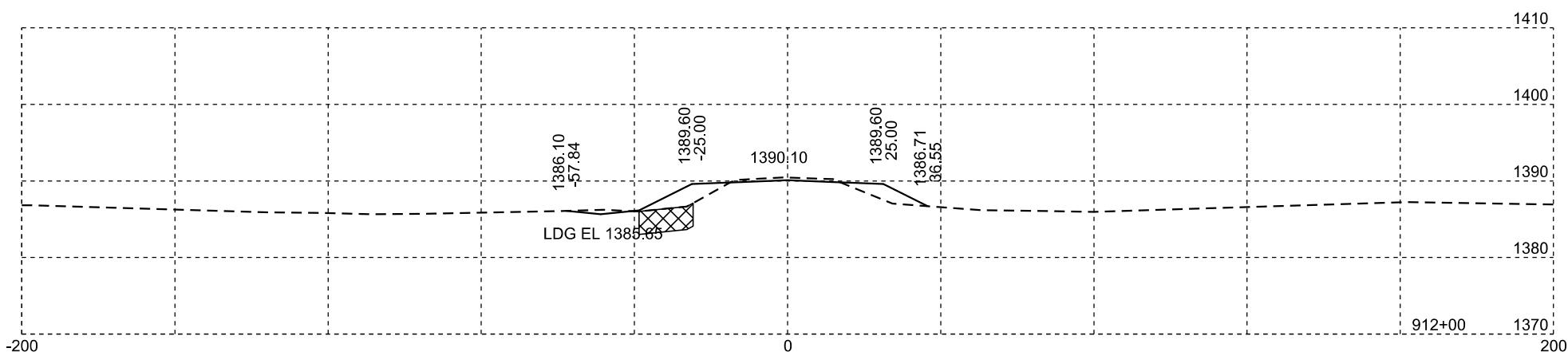
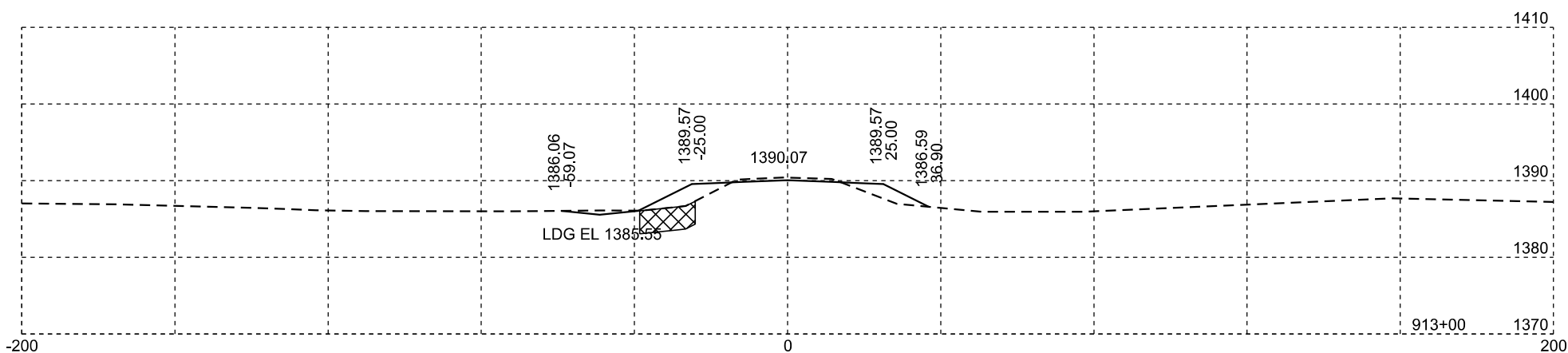
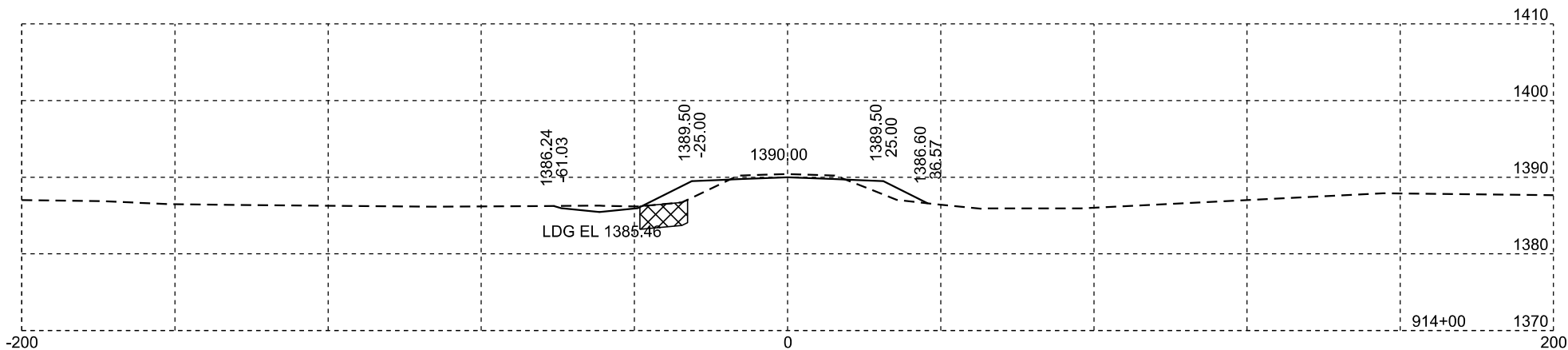
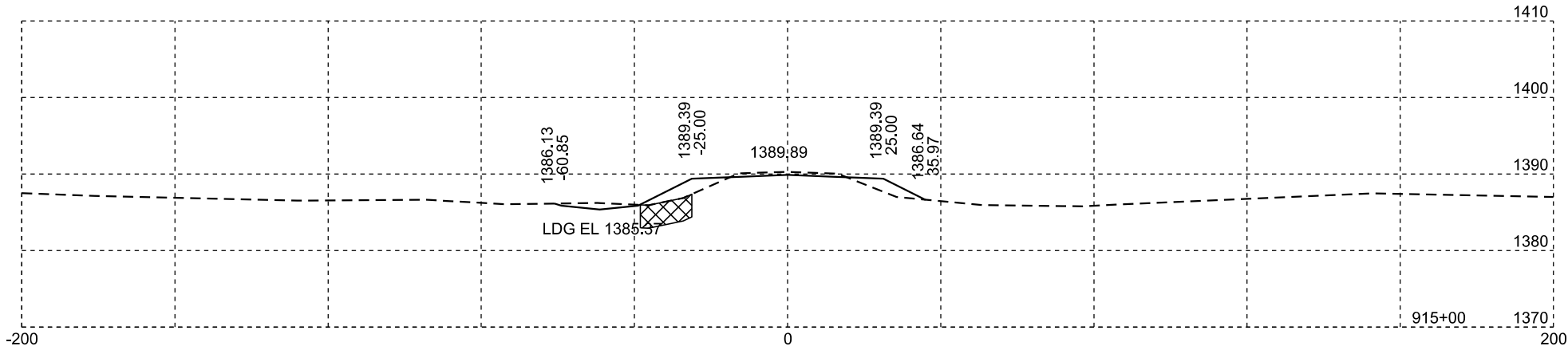


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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X34	X99

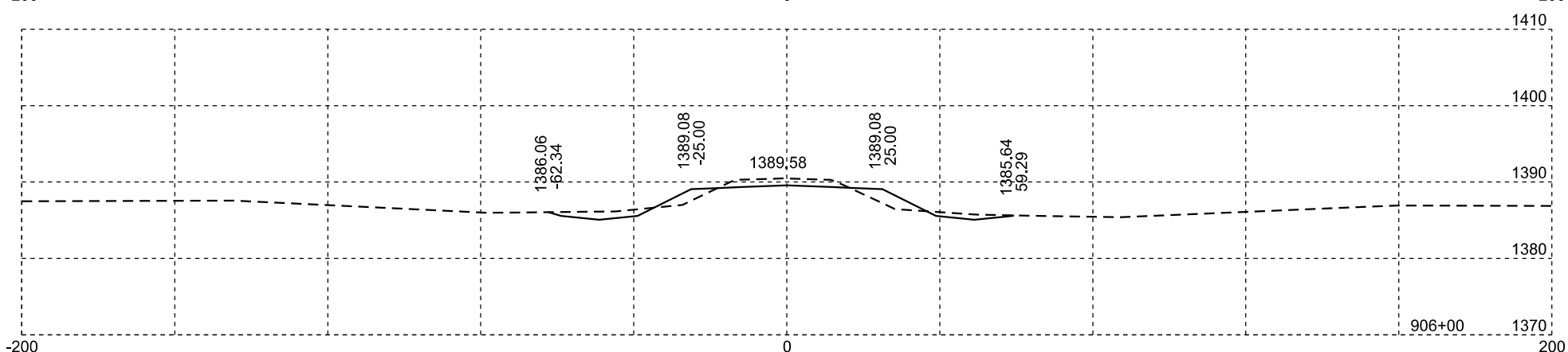
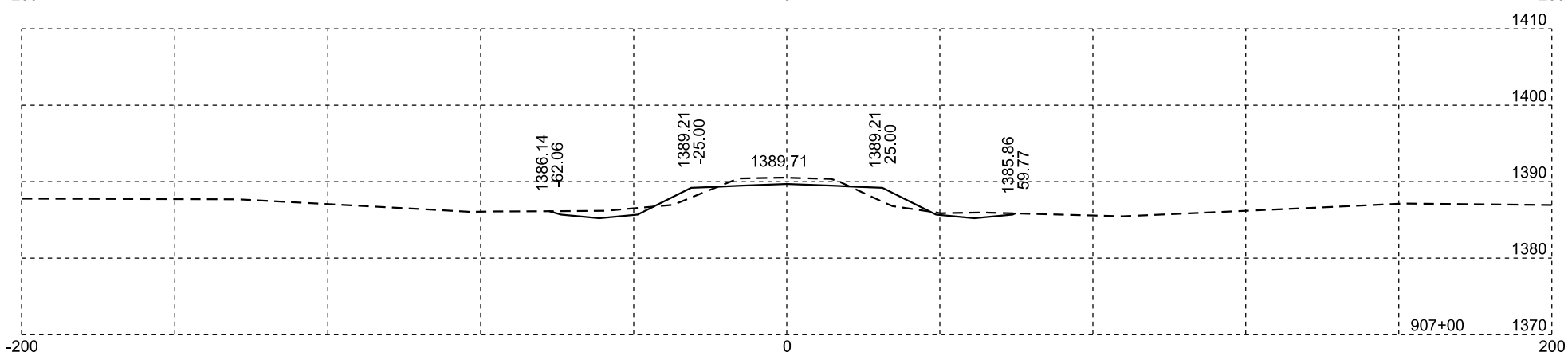
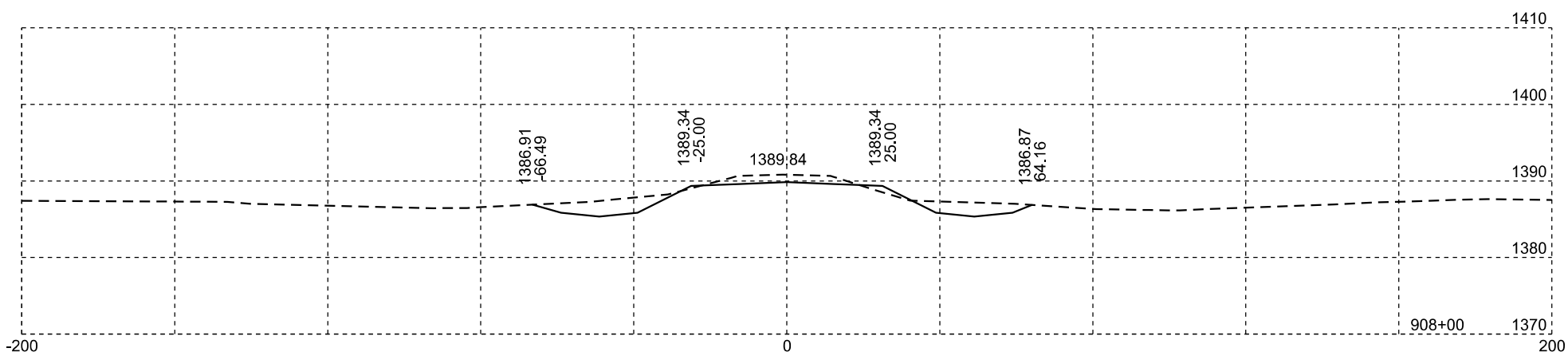
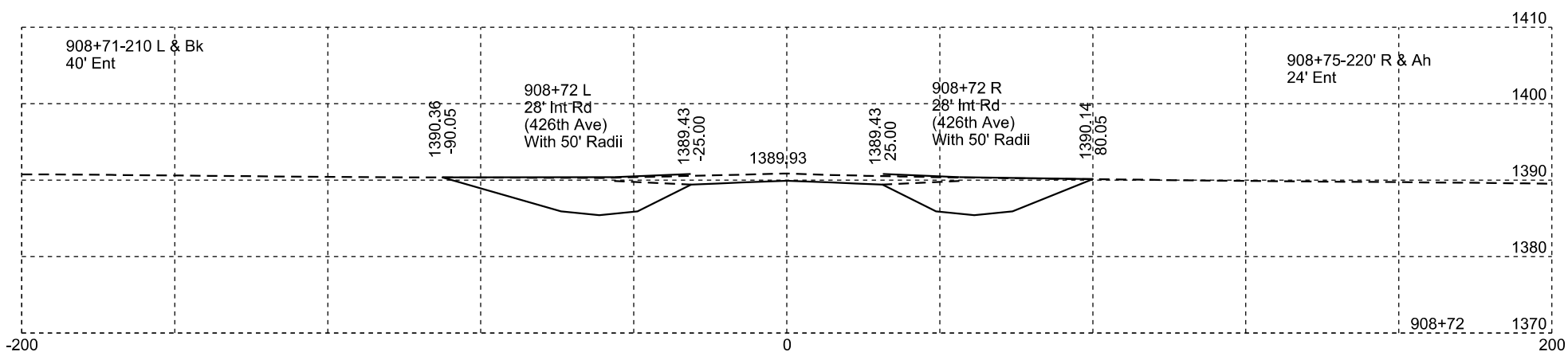
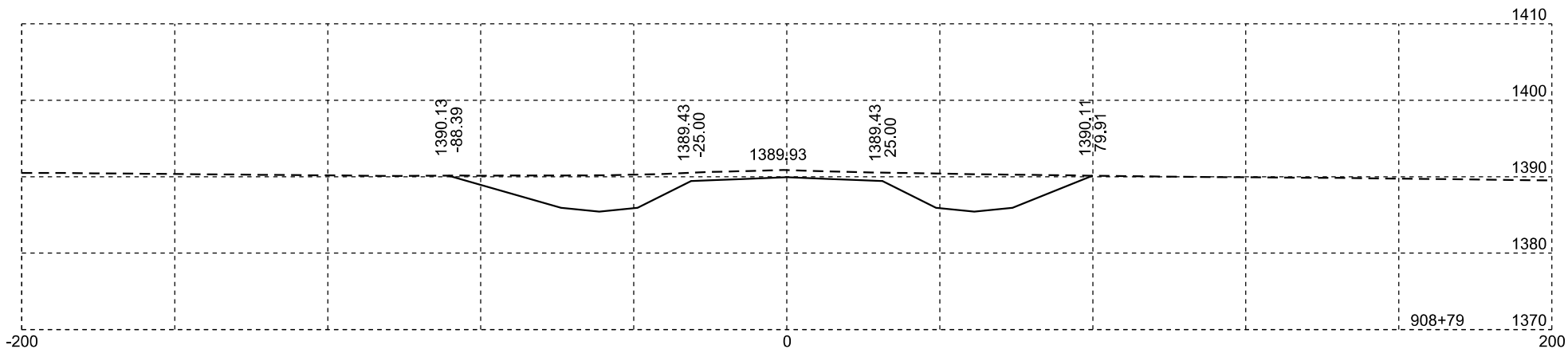
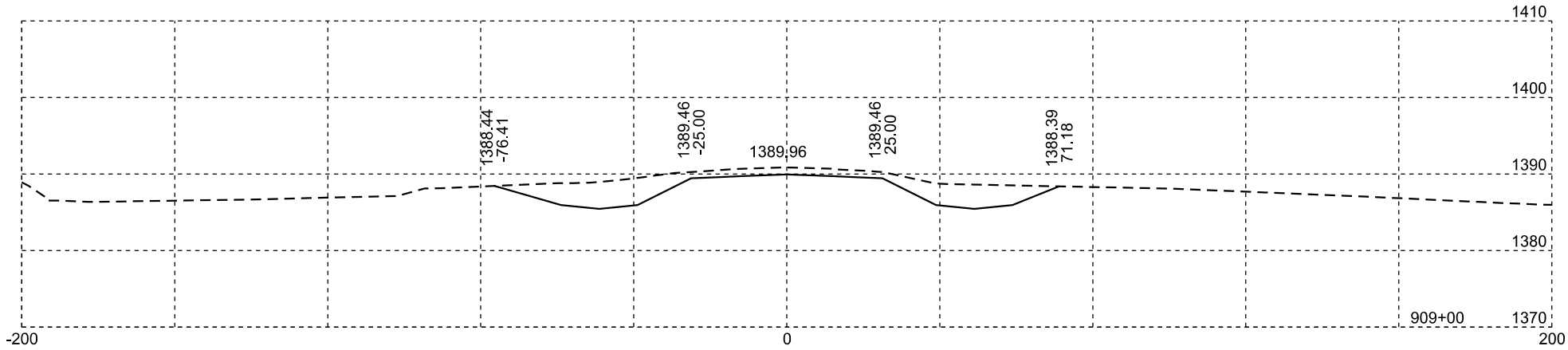




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Plotting Date: 01/20/2026

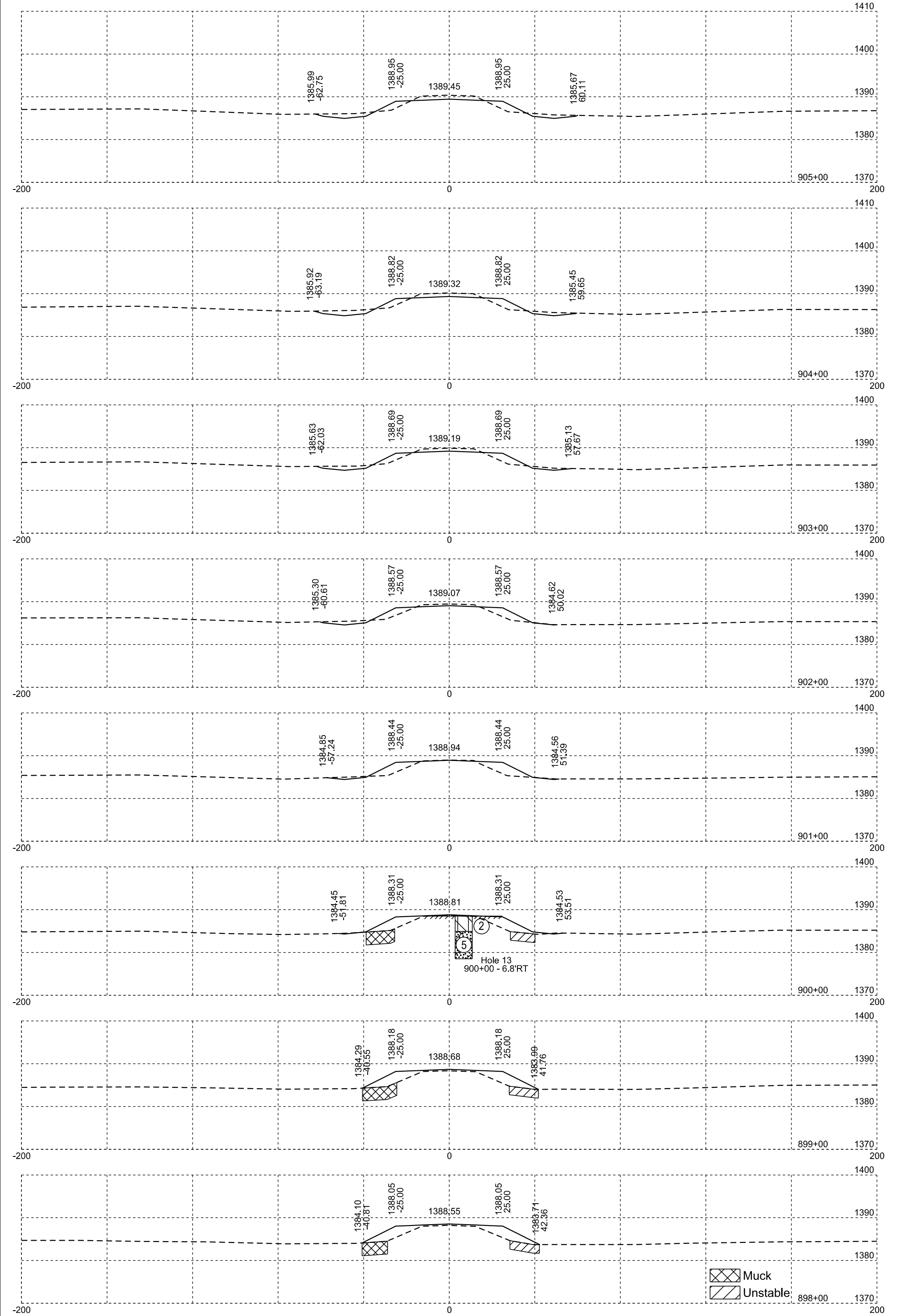
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X36	X99



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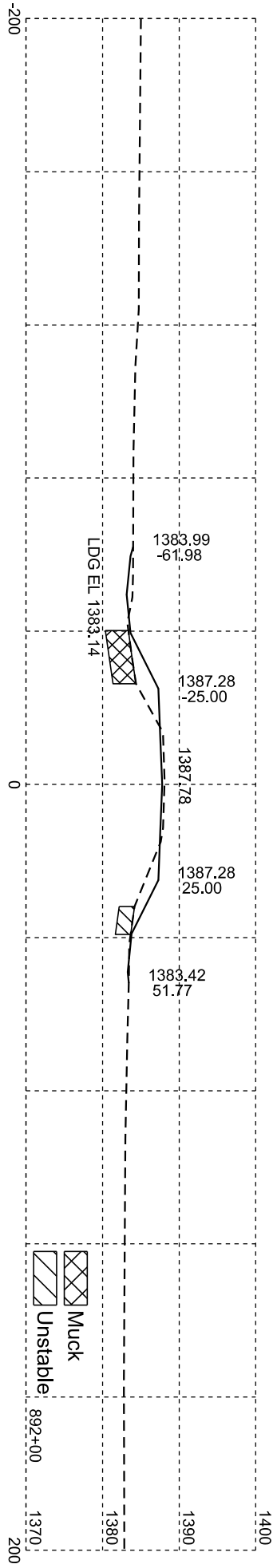
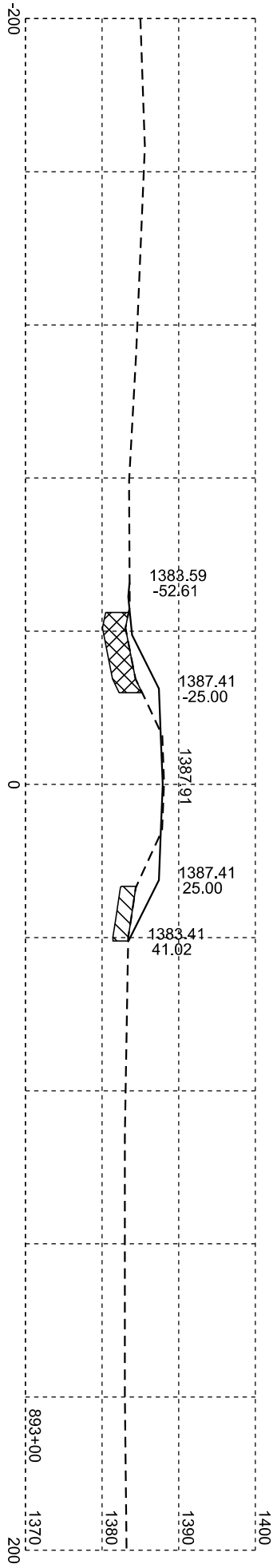
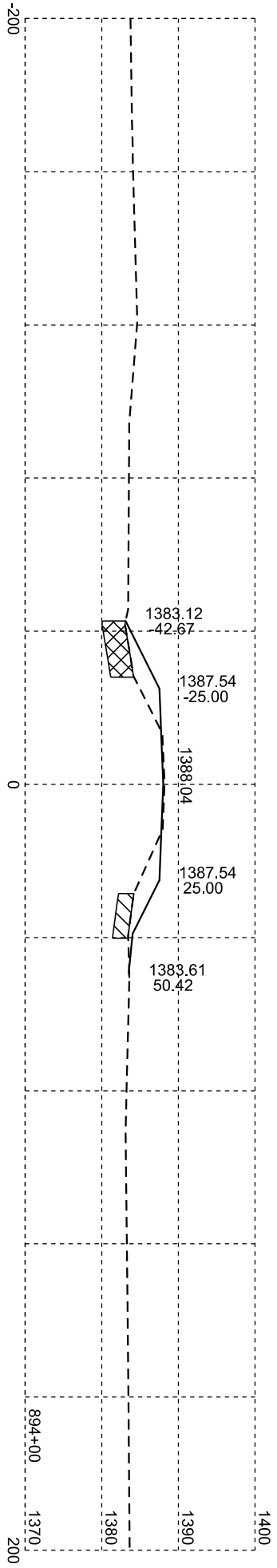
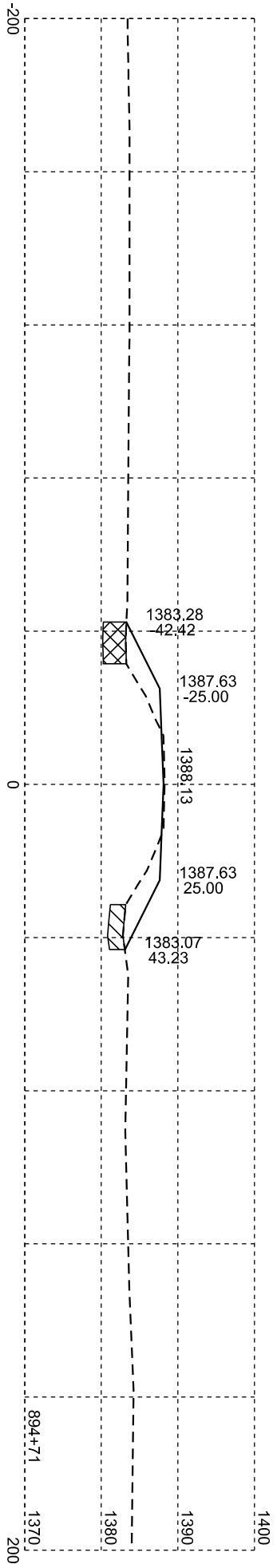
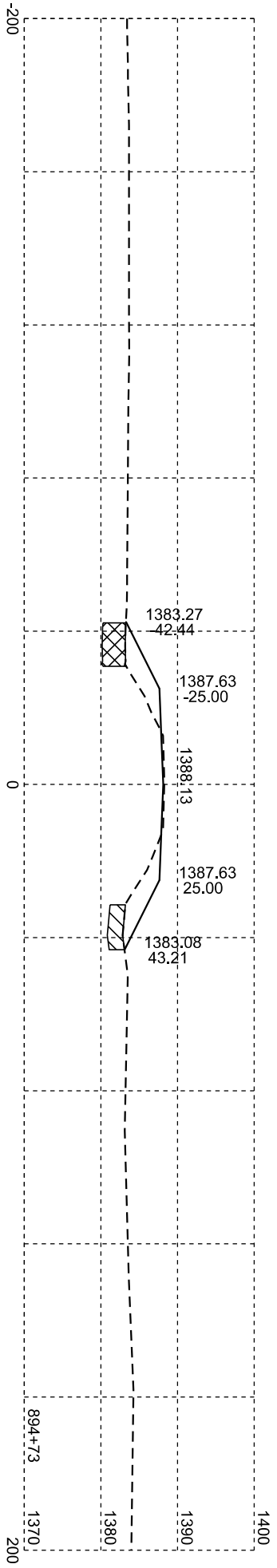
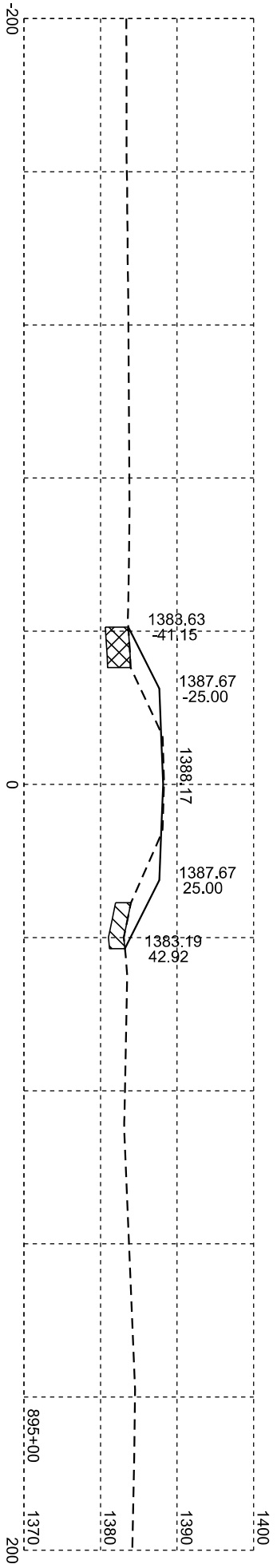
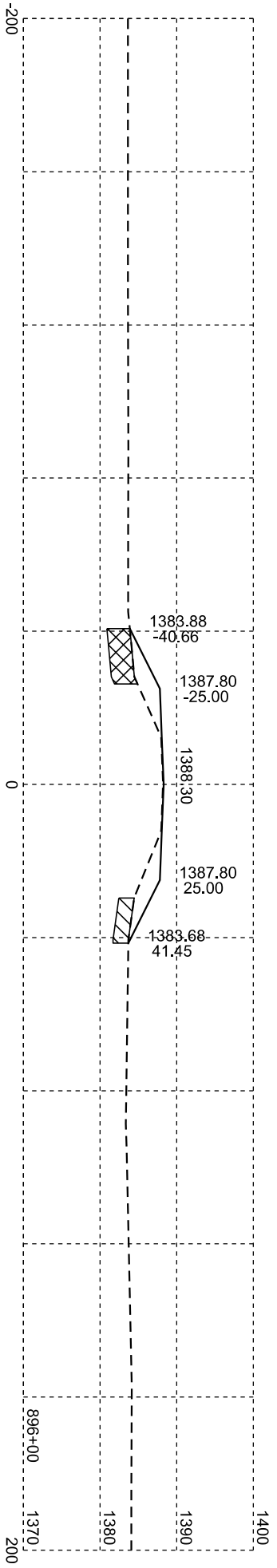
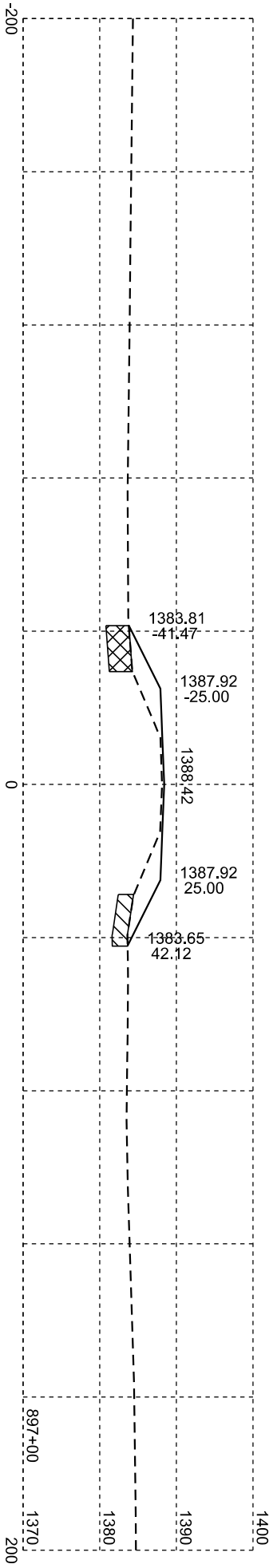
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X37	X99



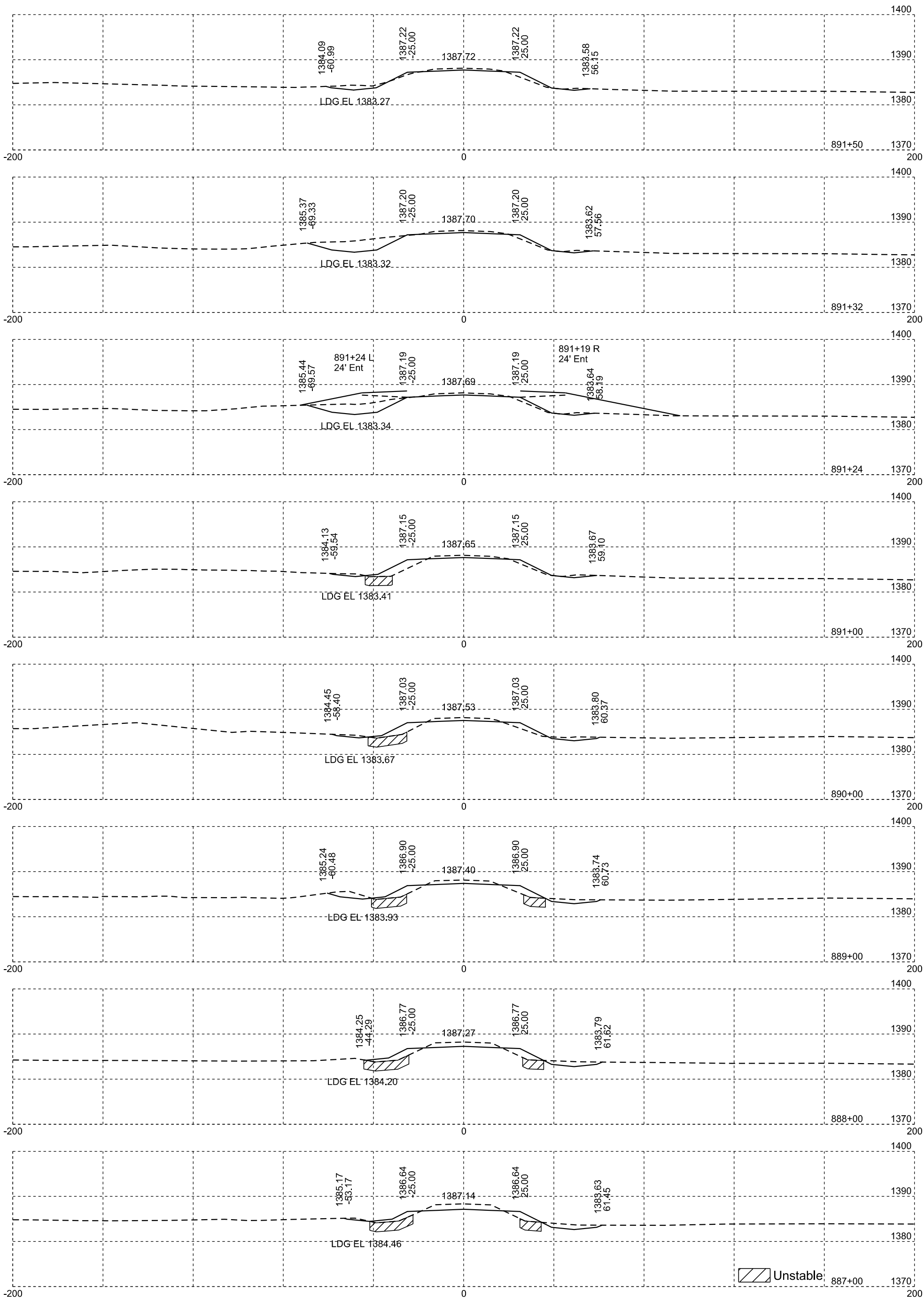
Plotting Date: 01/20/2026

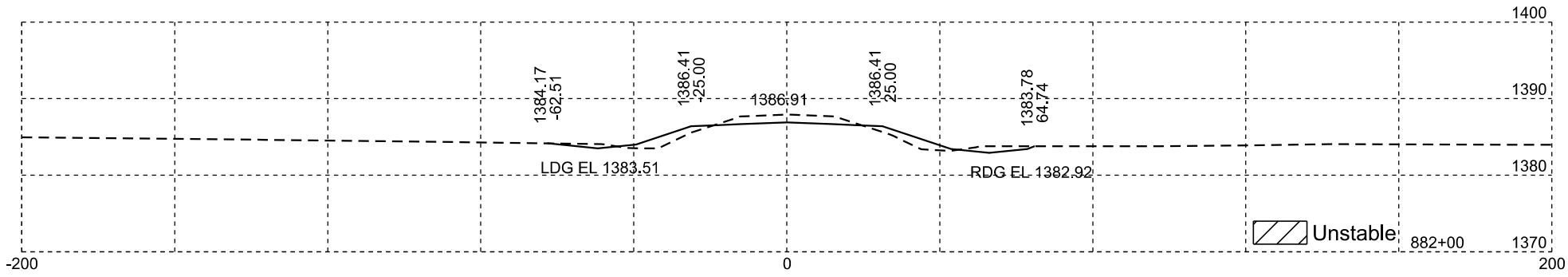
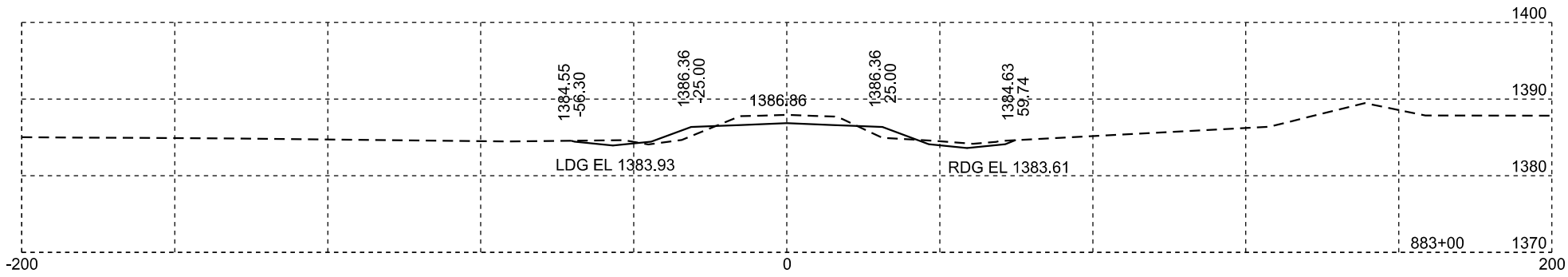
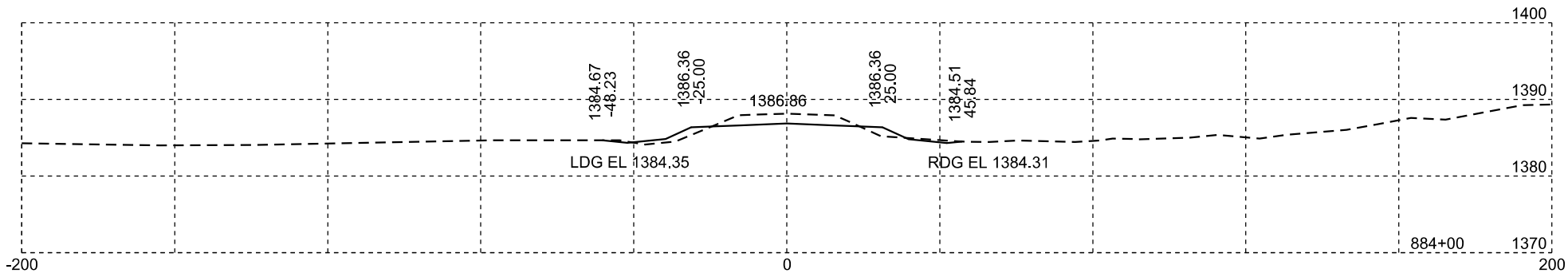
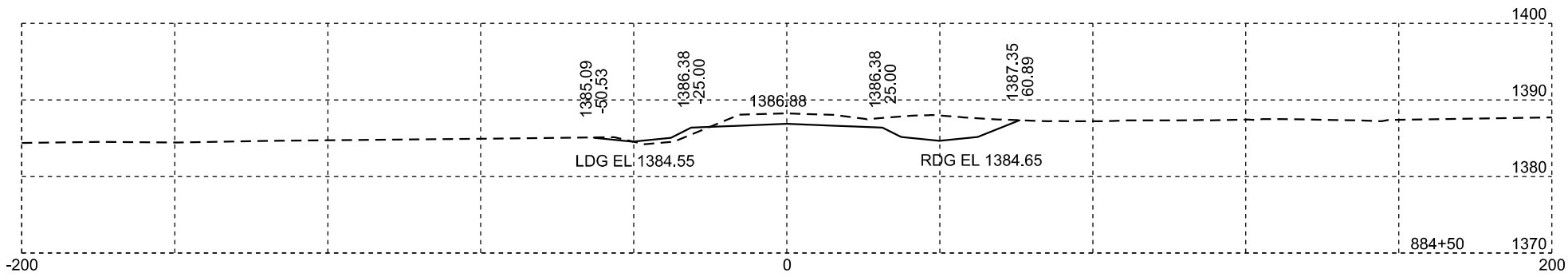
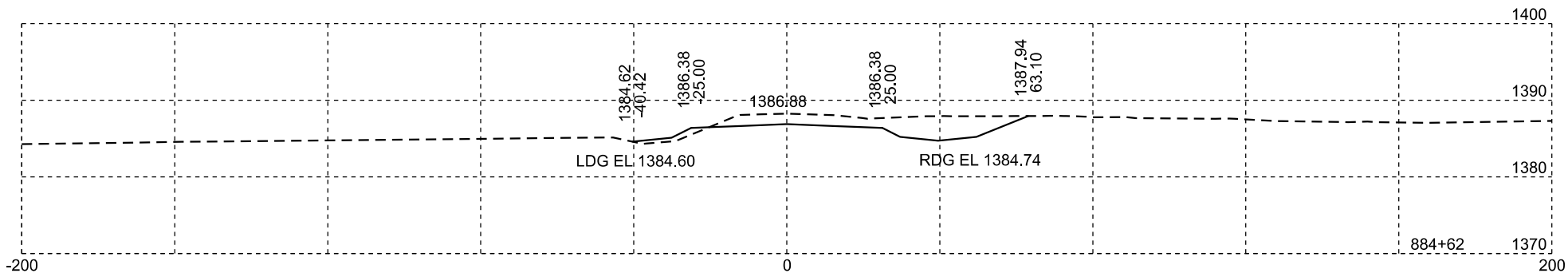
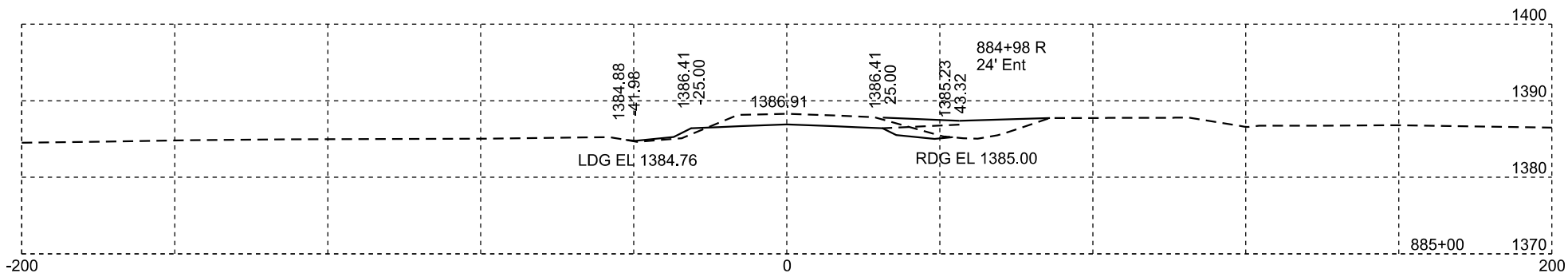
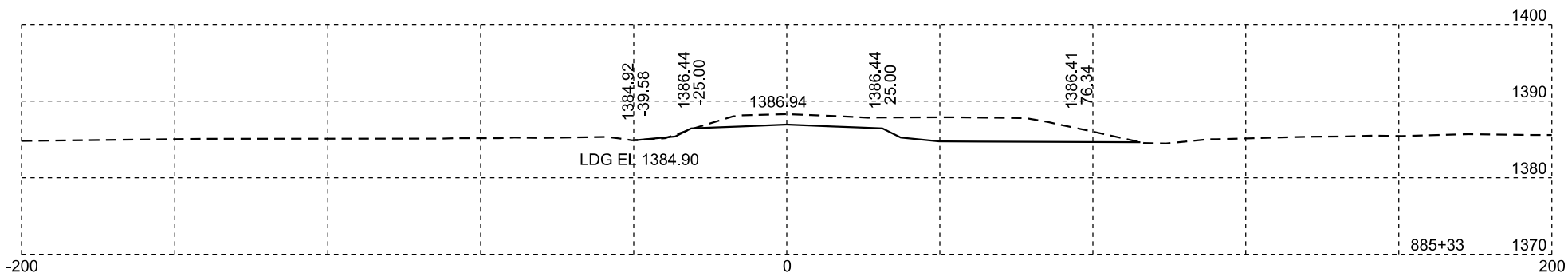
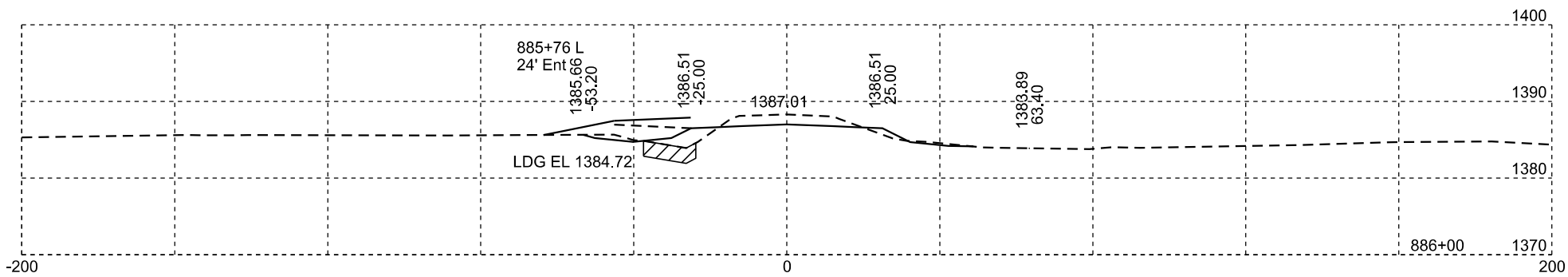
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X38	X99



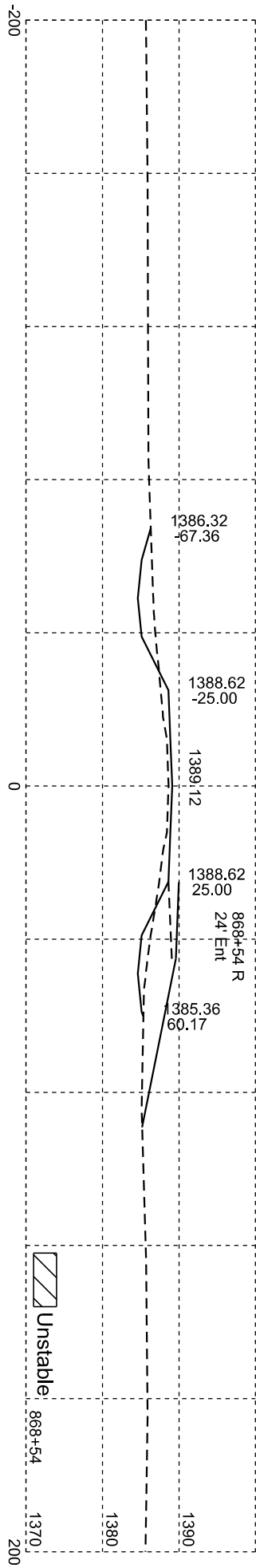
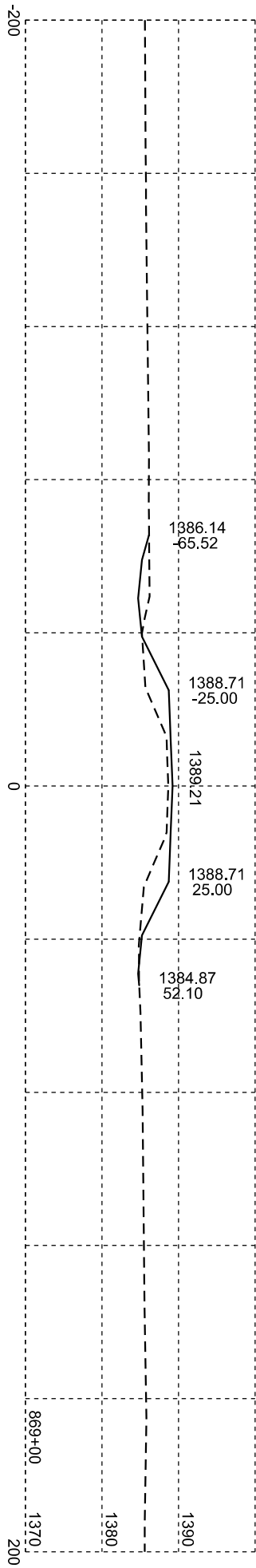
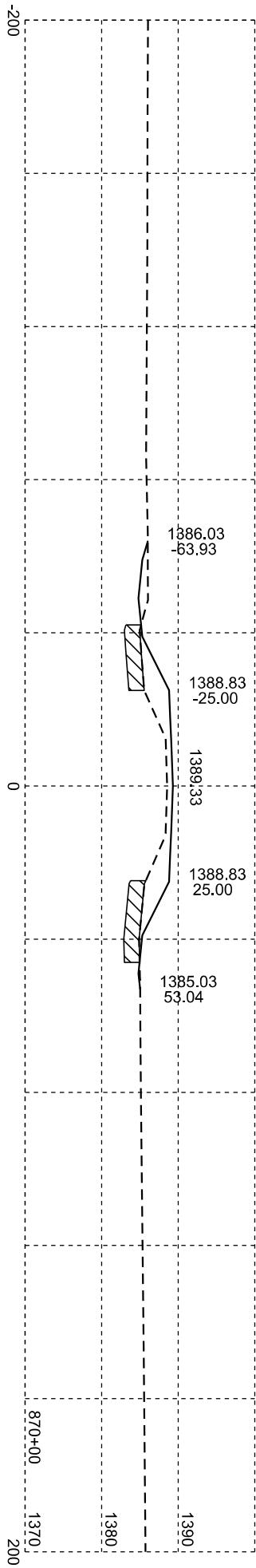
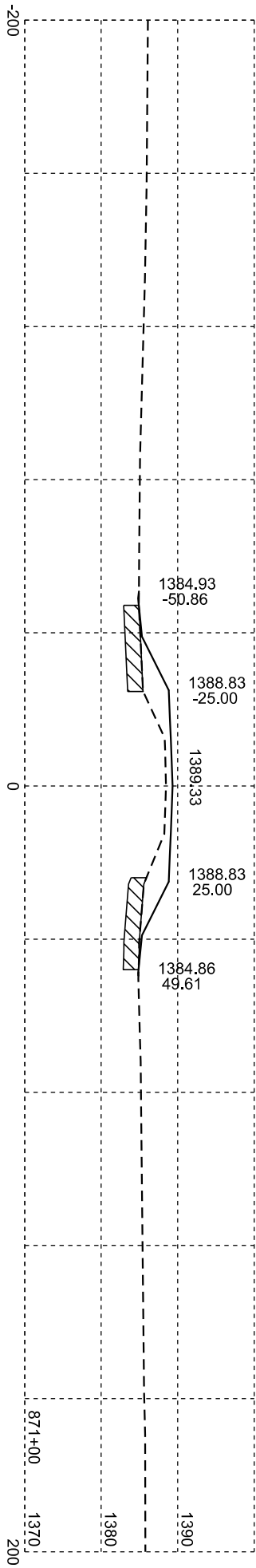
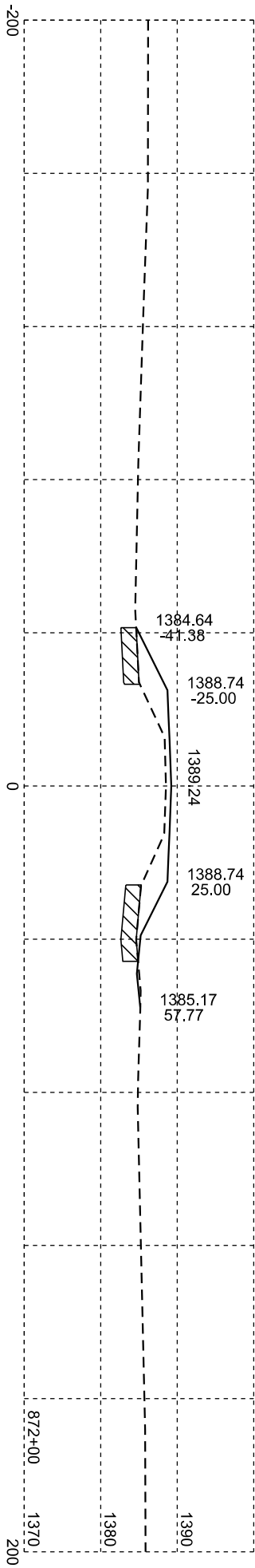
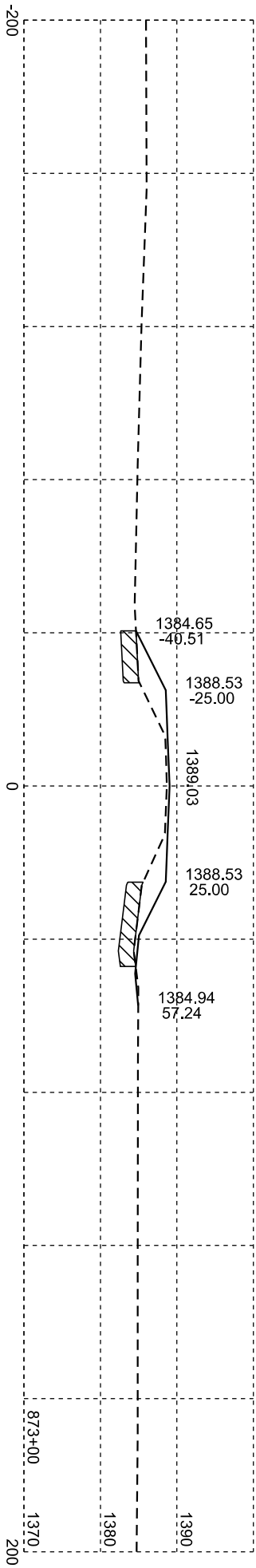
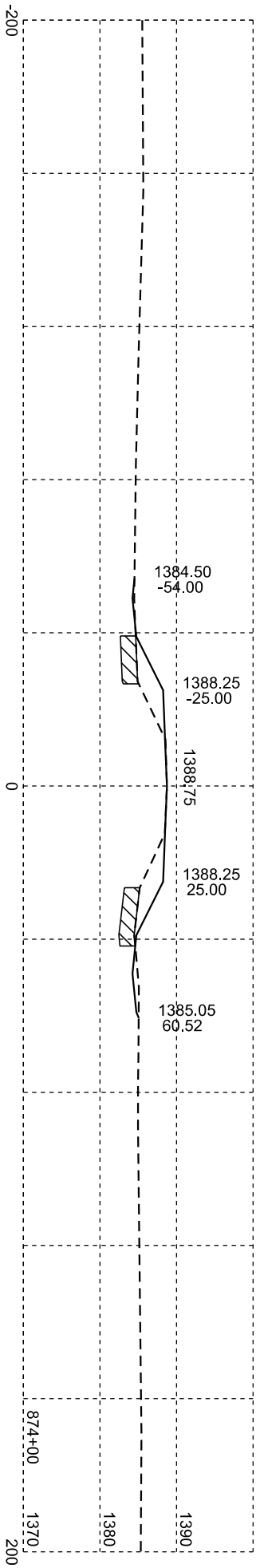
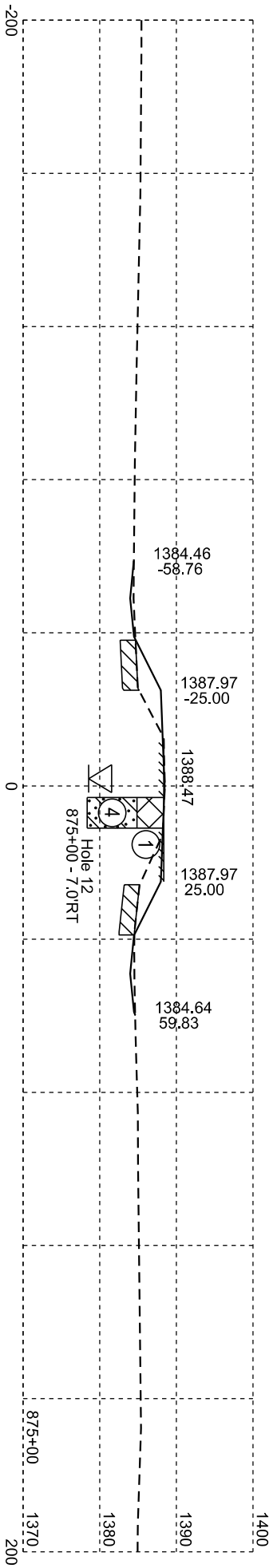
Plotting Date: 01/20/2026

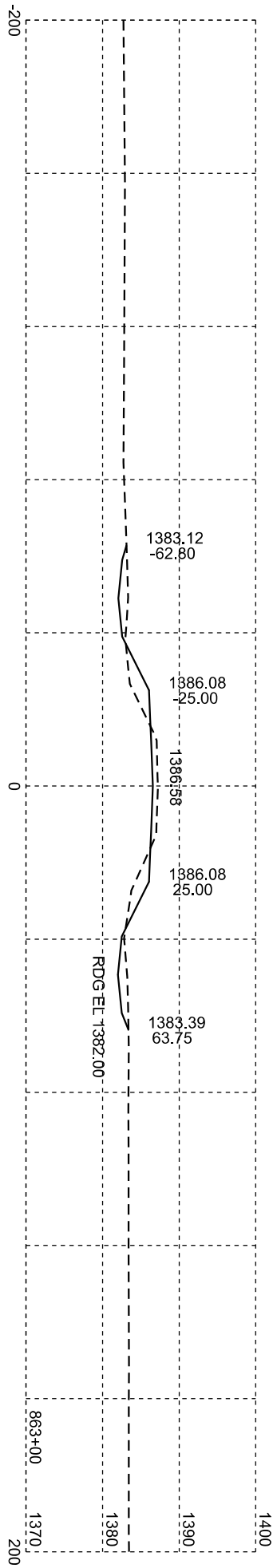
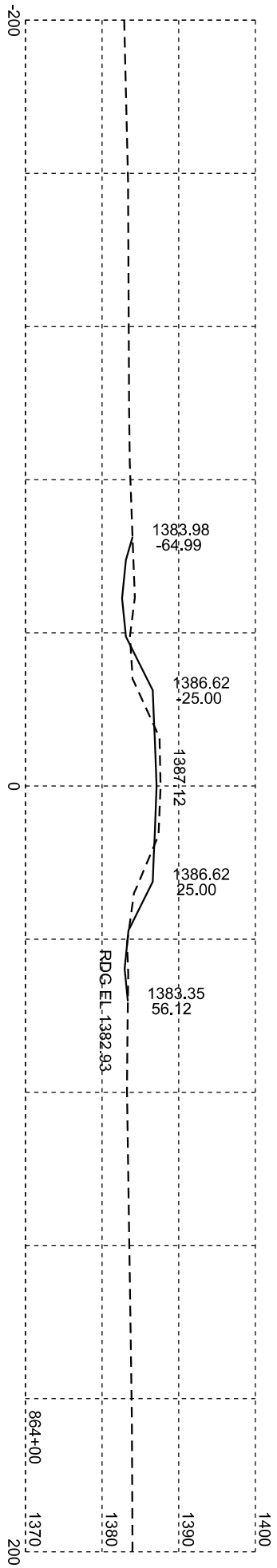
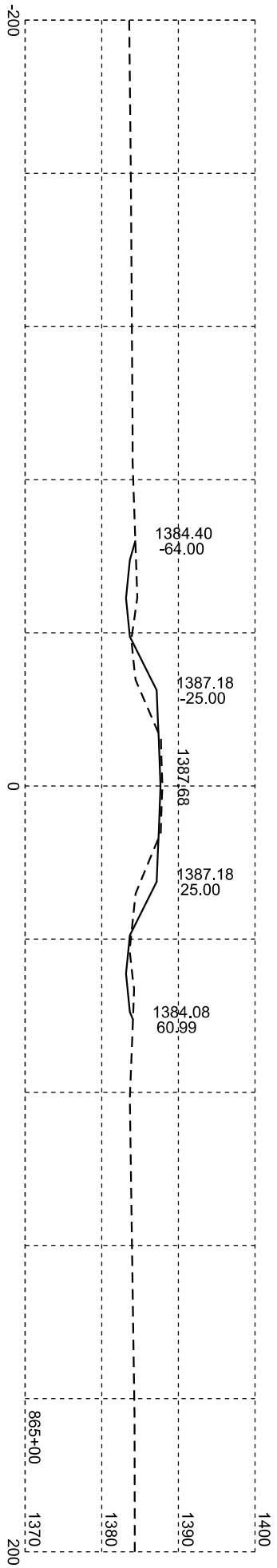
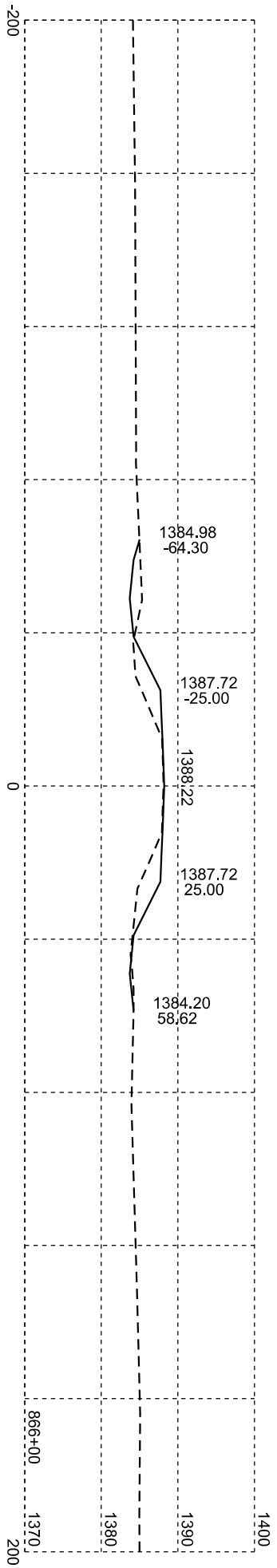
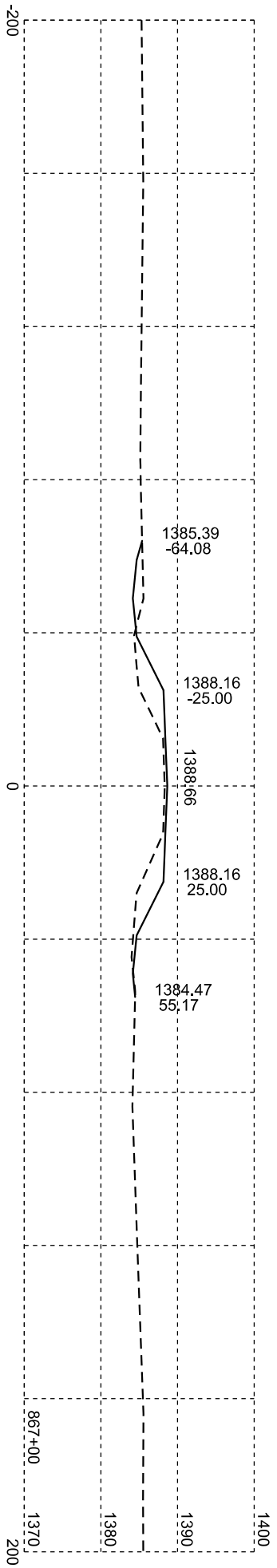
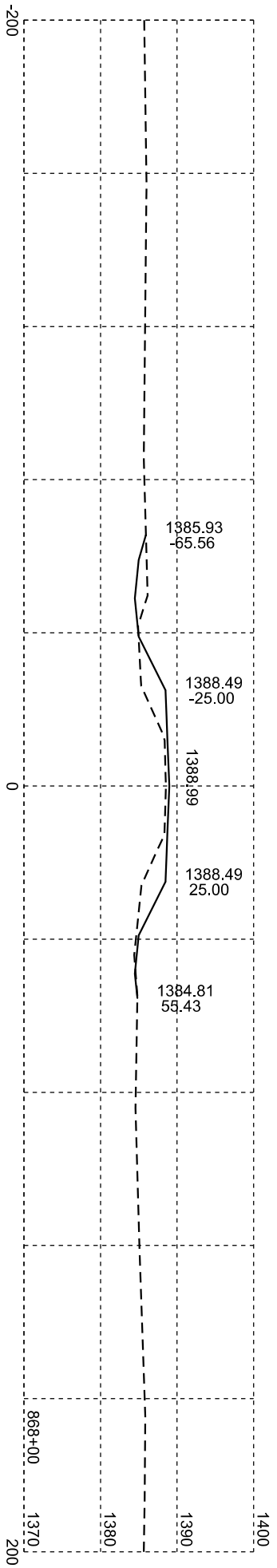
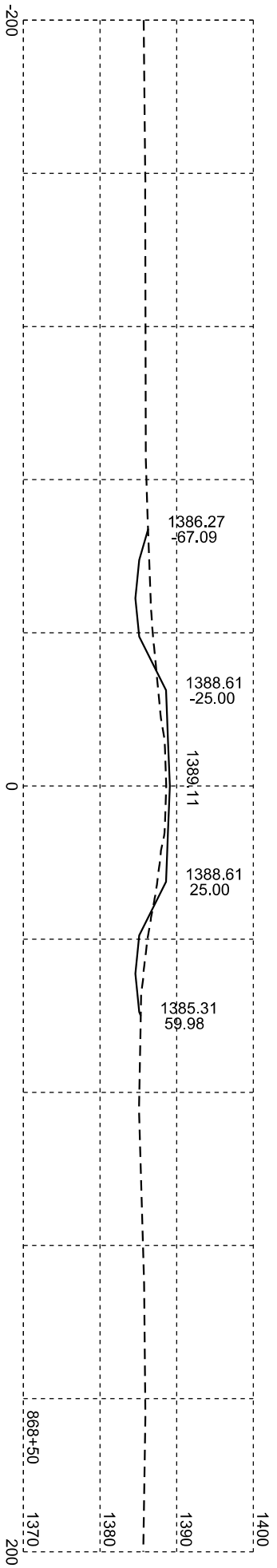
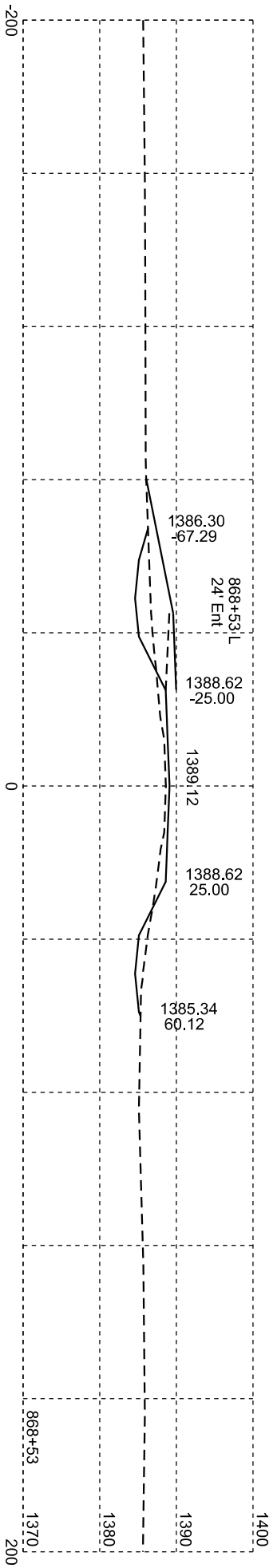
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X39	X99





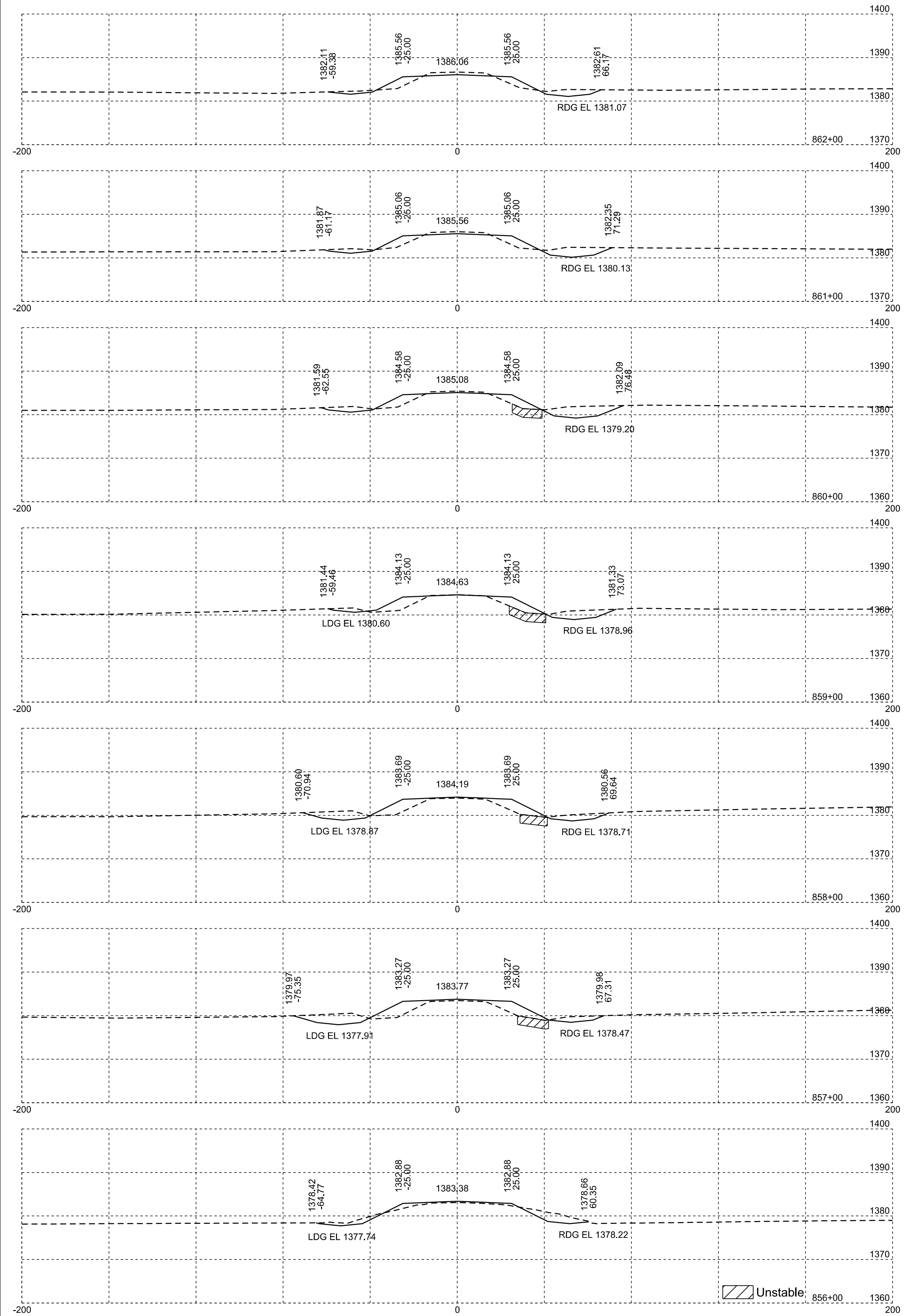
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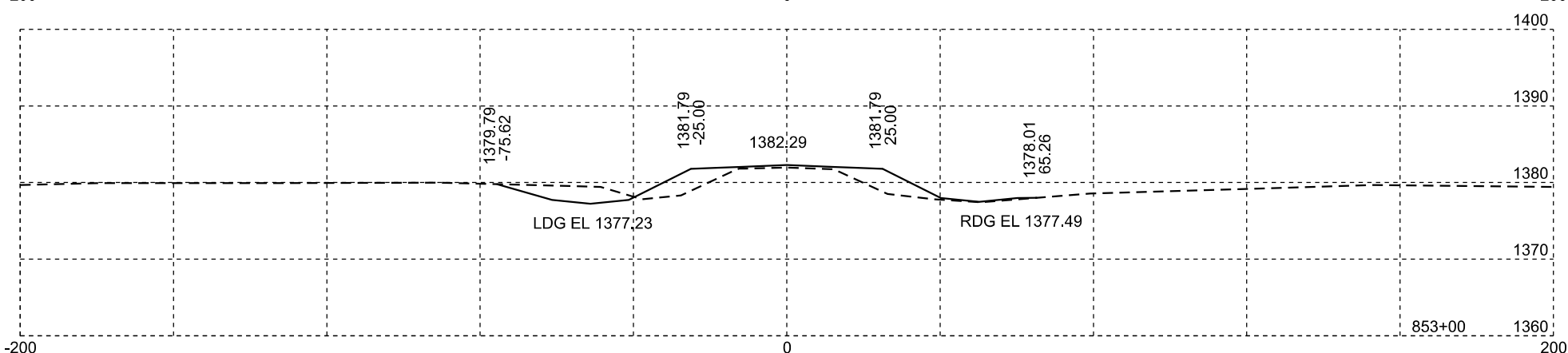
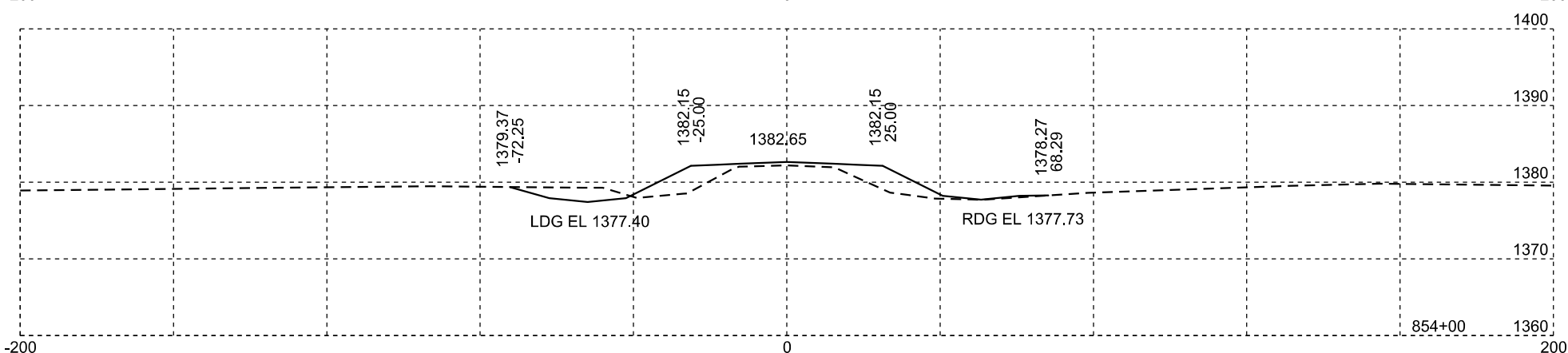
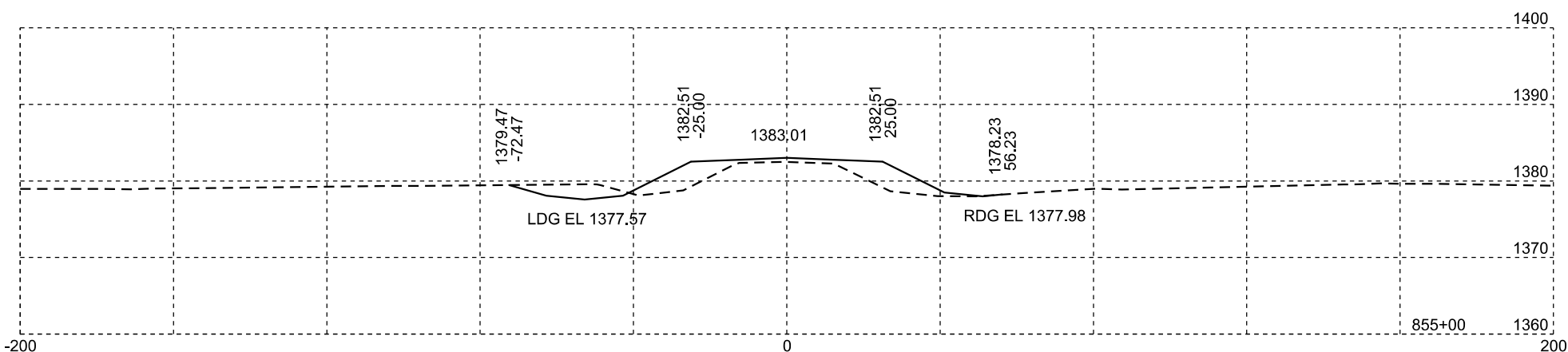
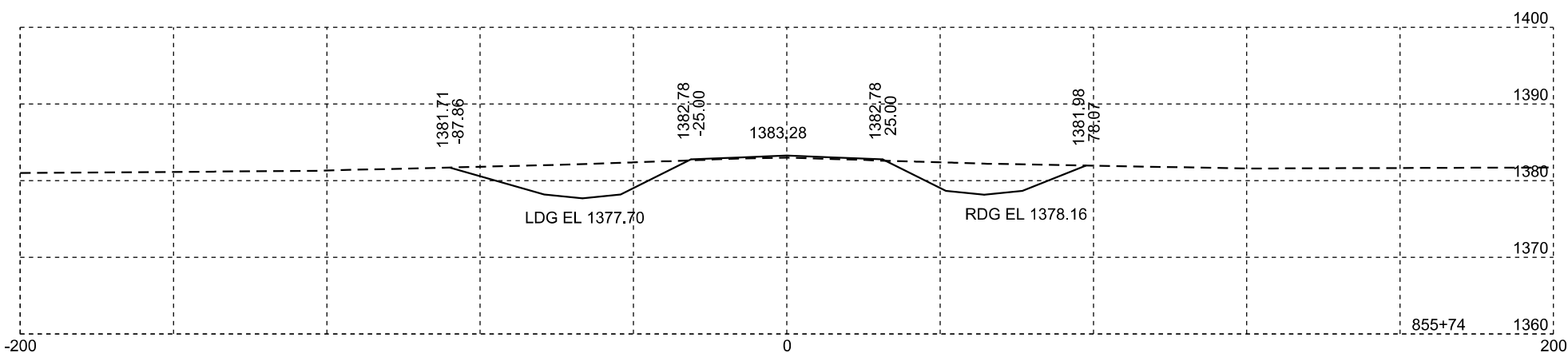
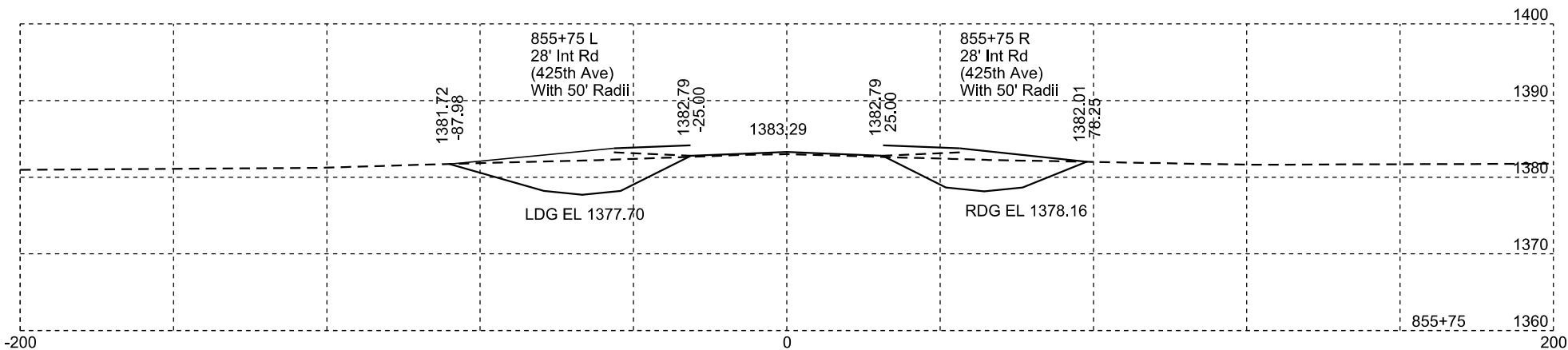
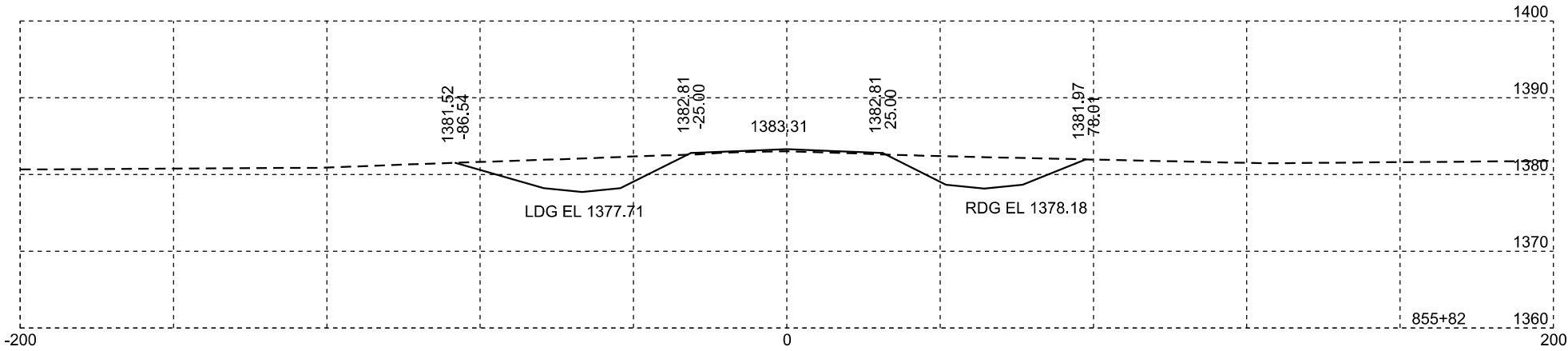




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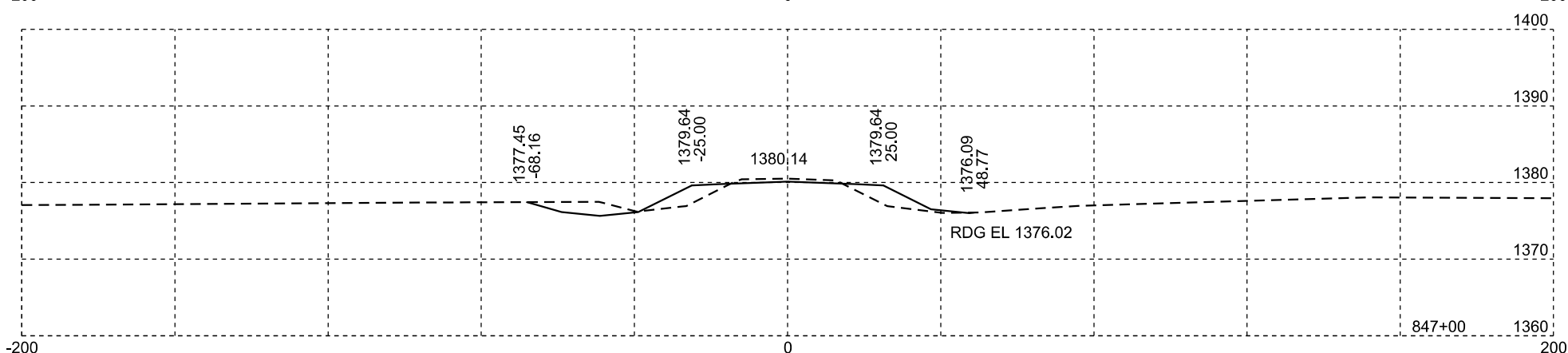
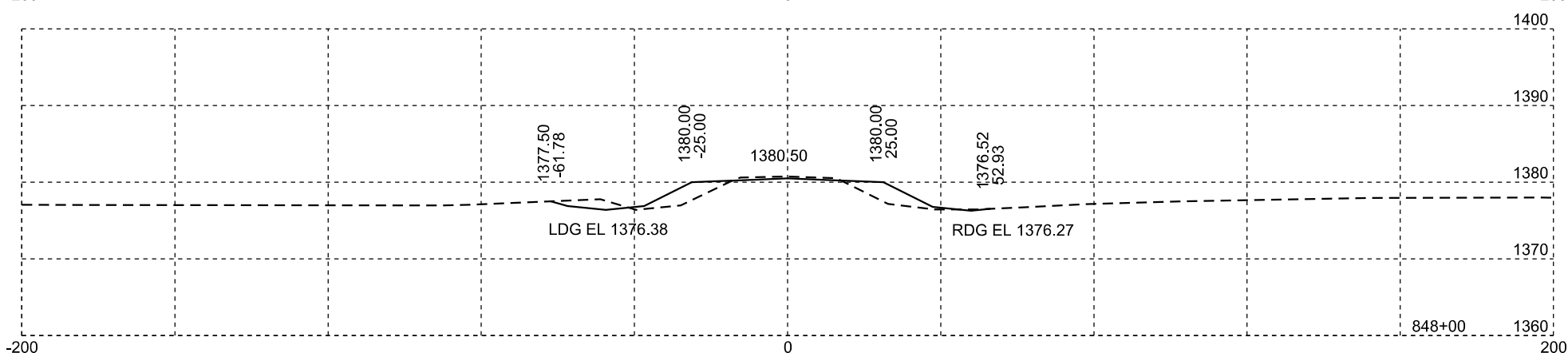
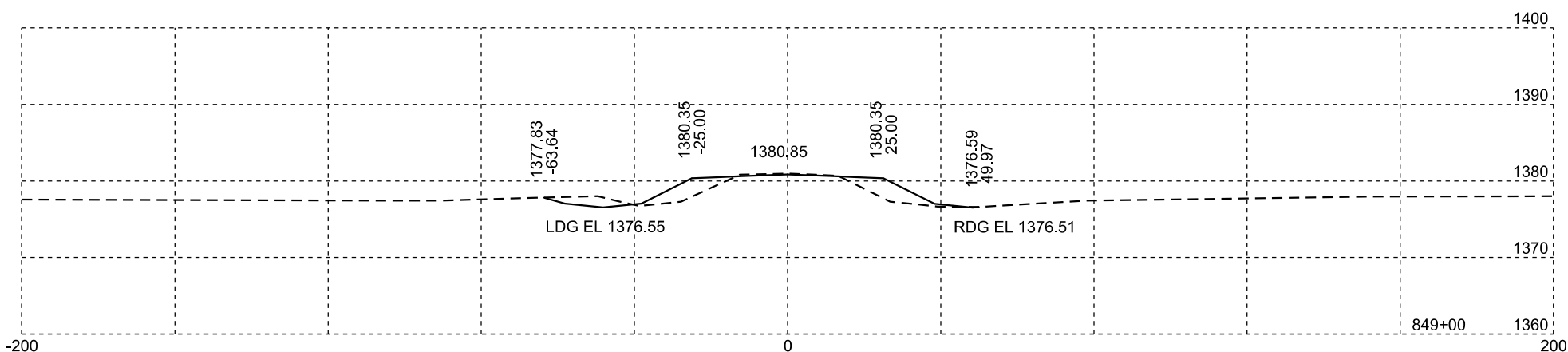
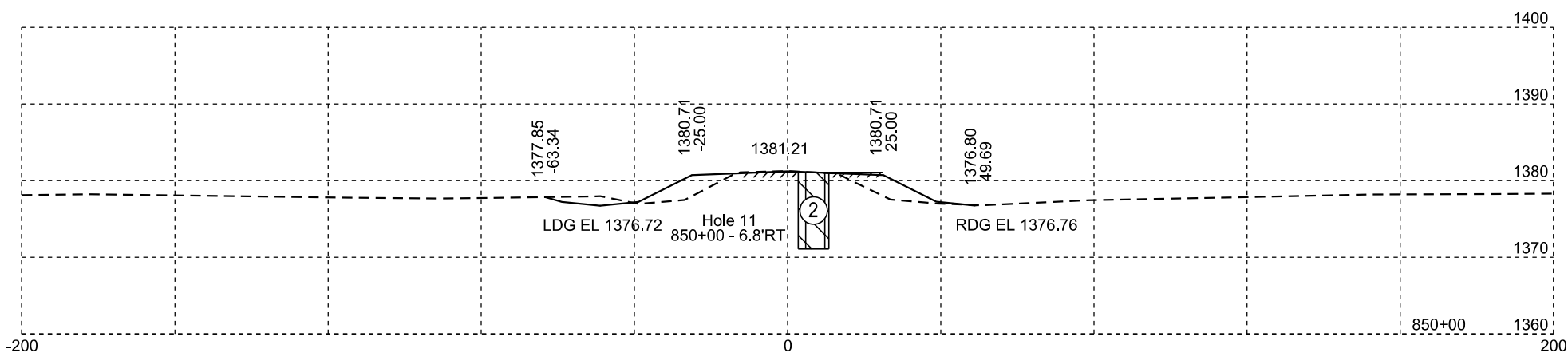
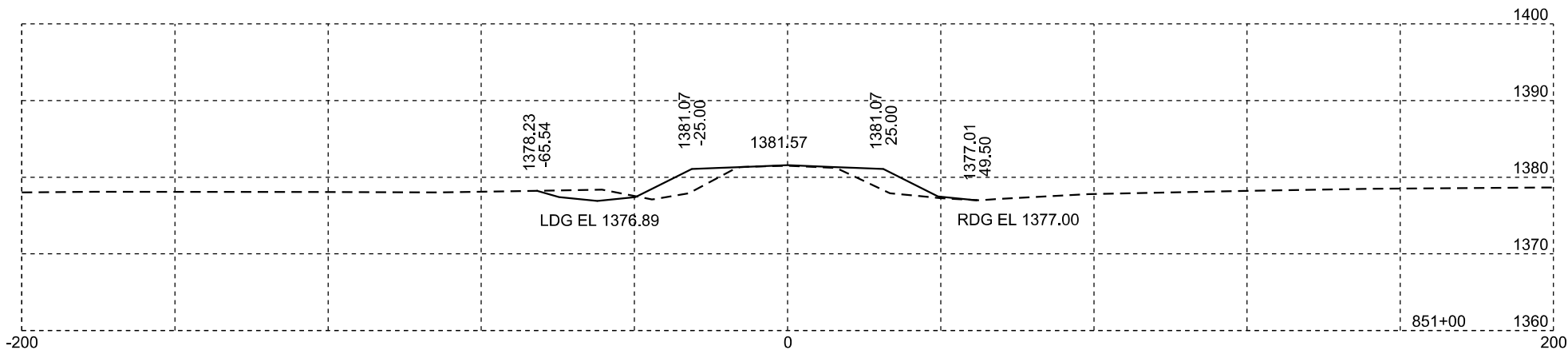
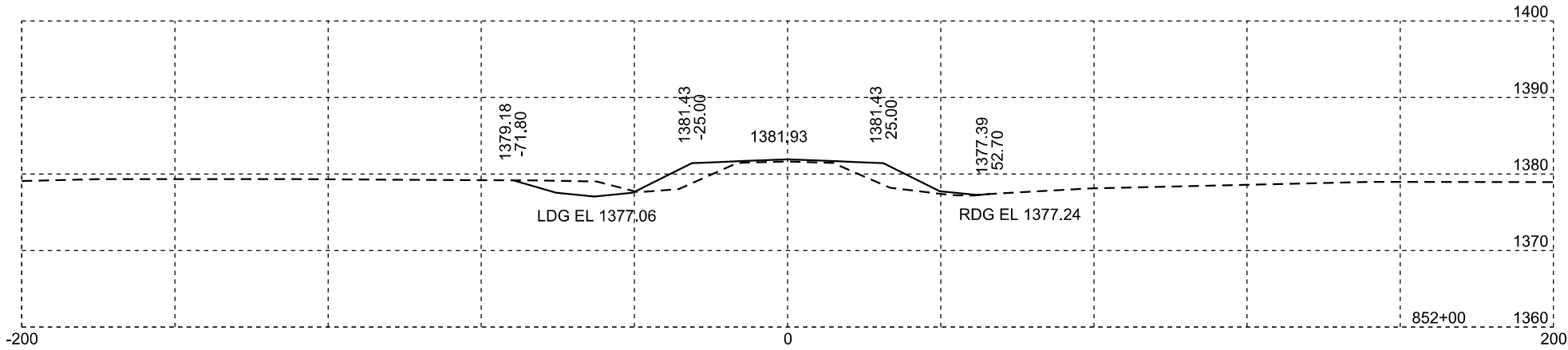
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X44	X99

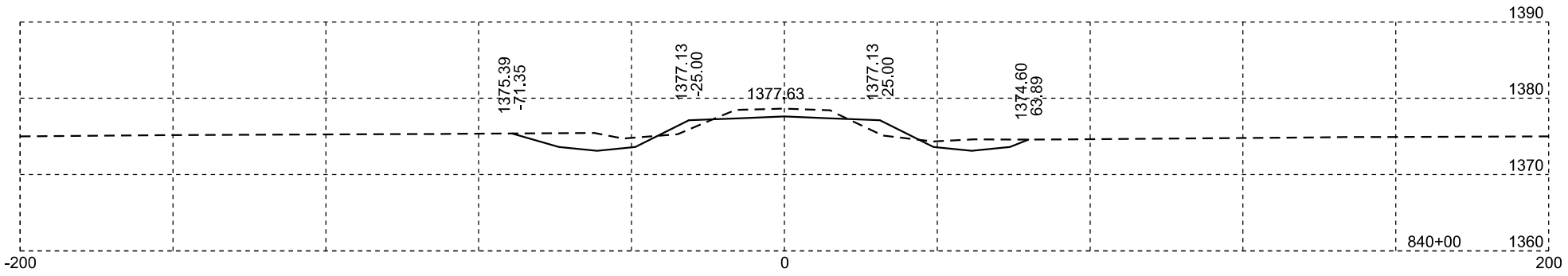
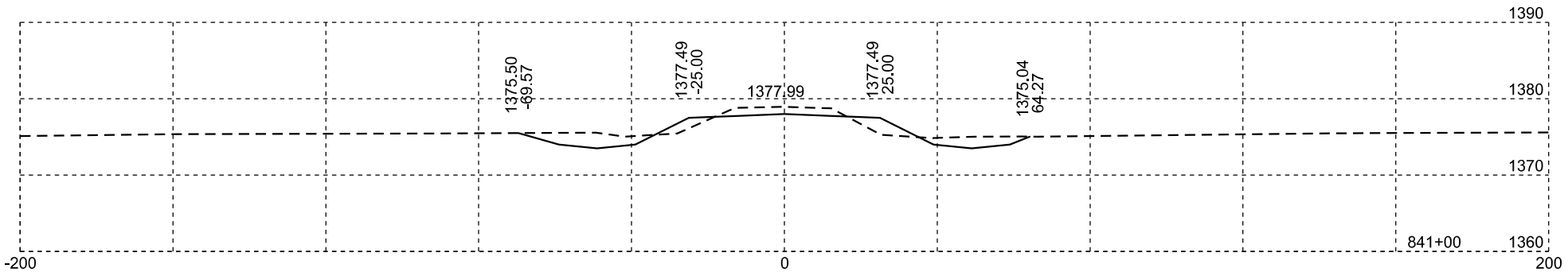
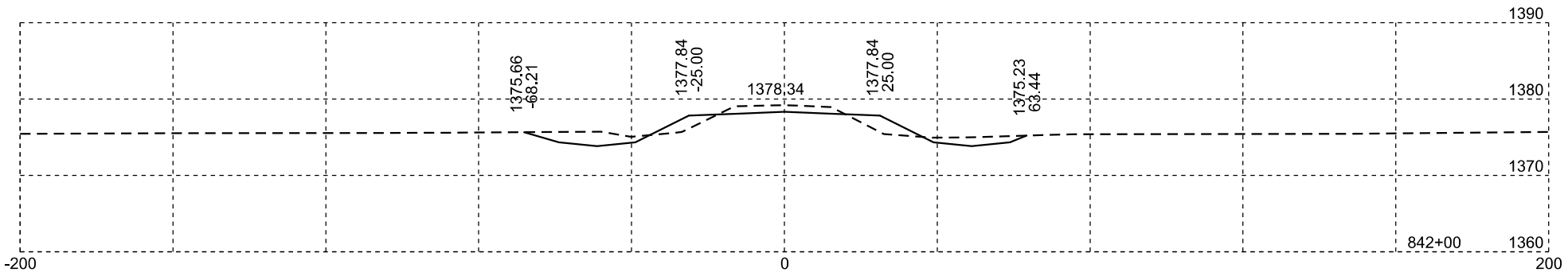
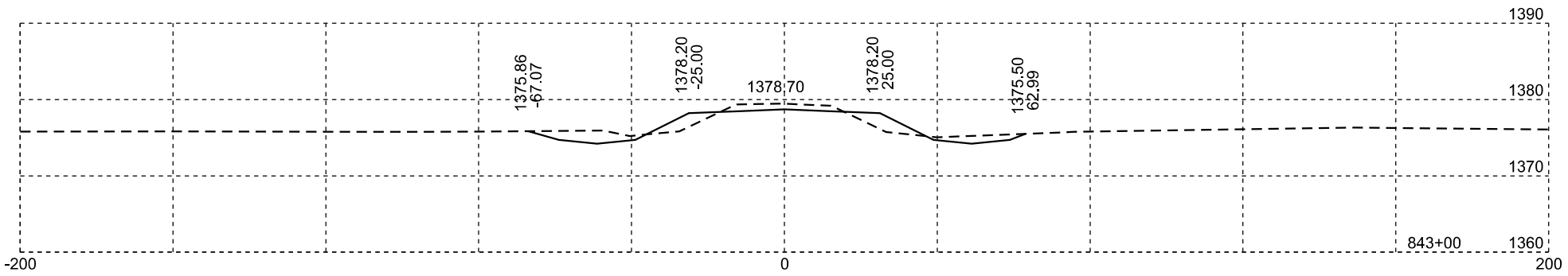
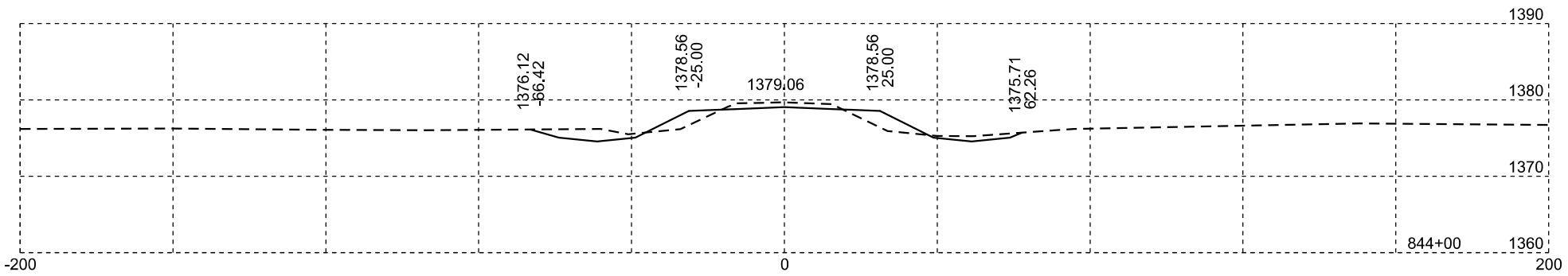
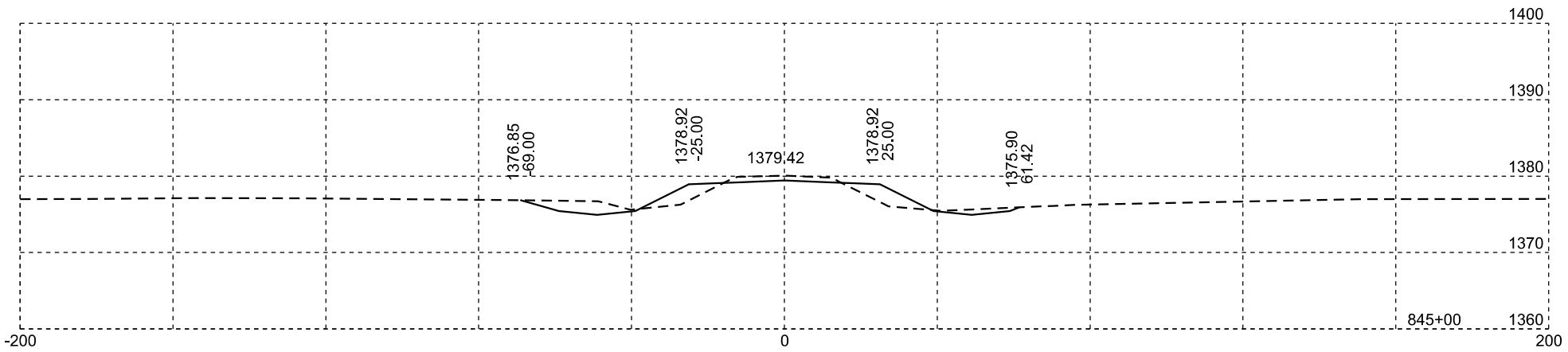
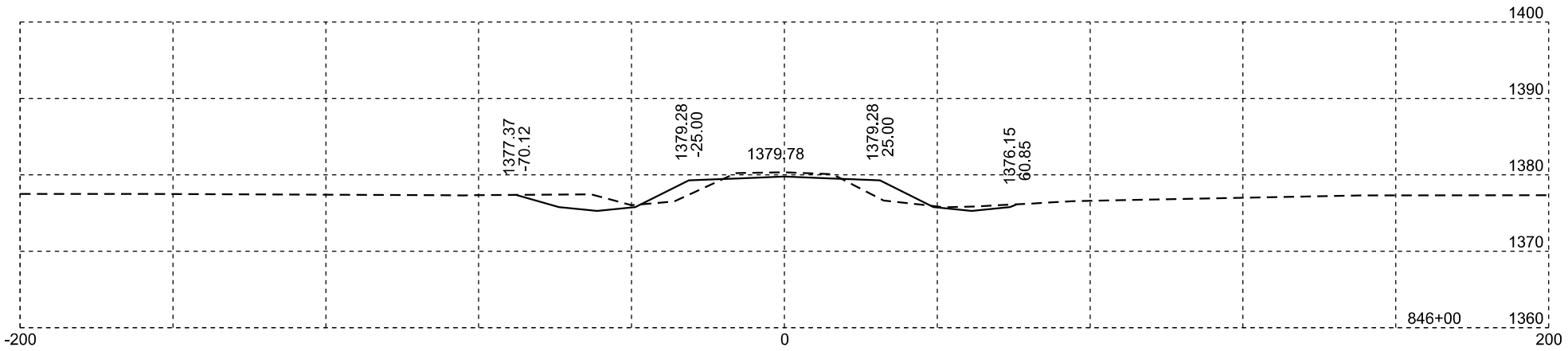


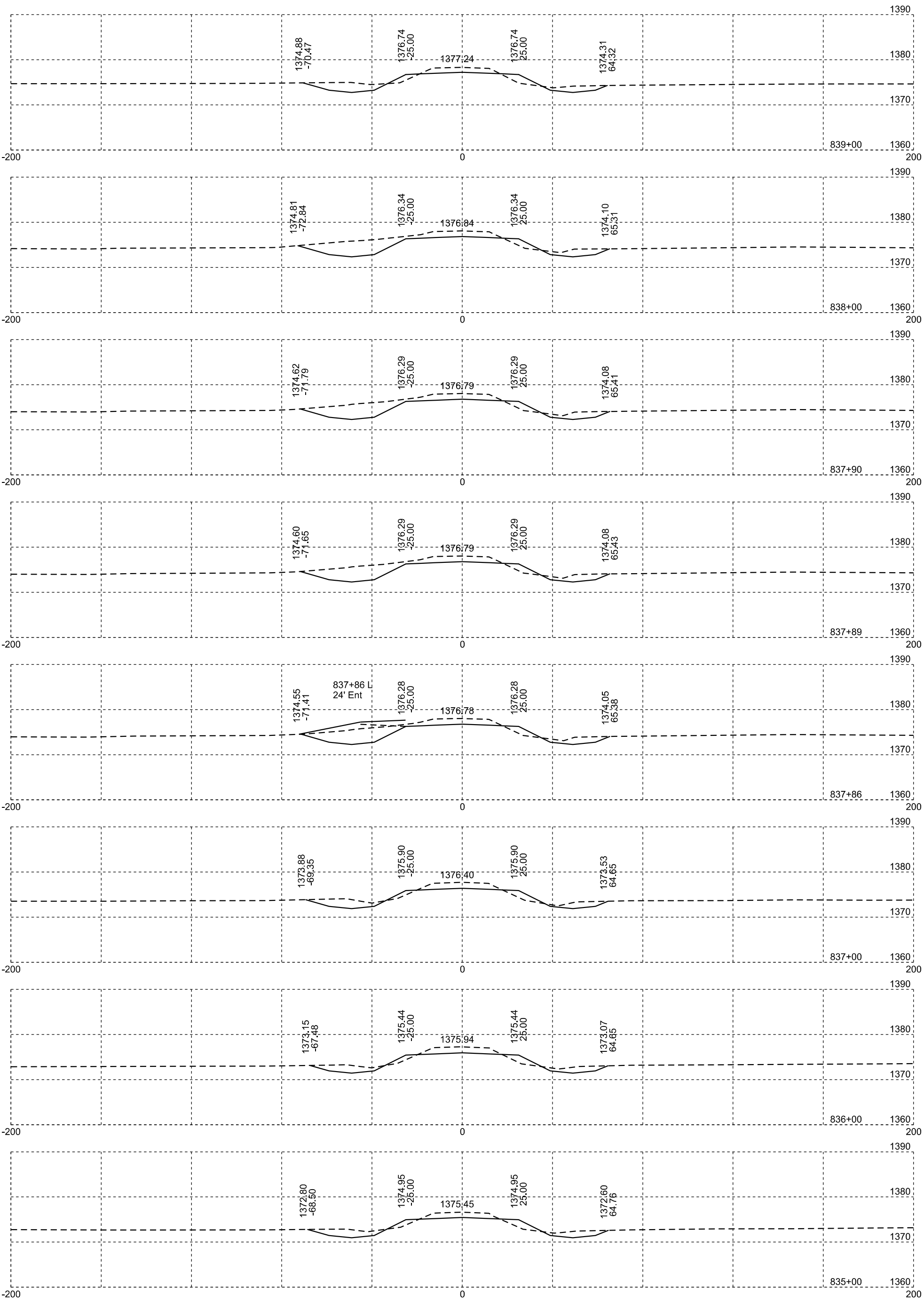


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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X46	X99

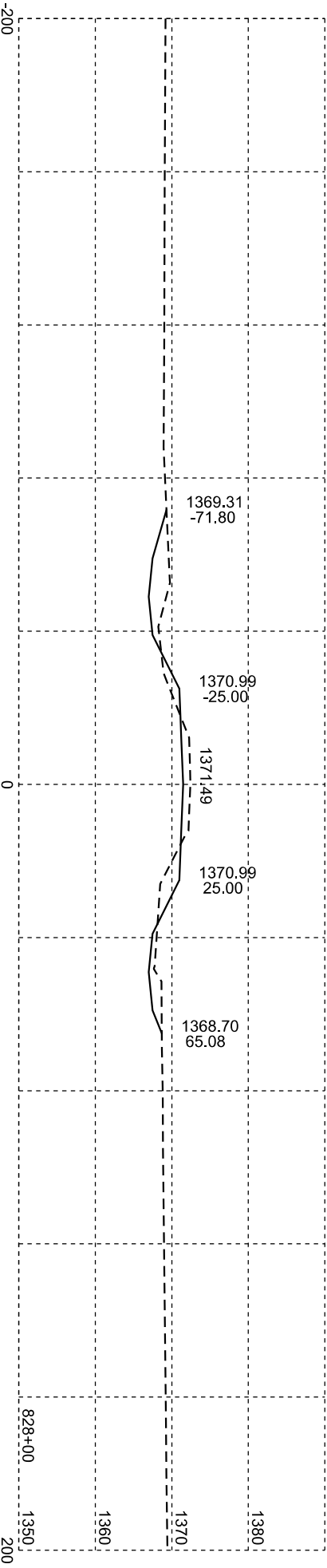
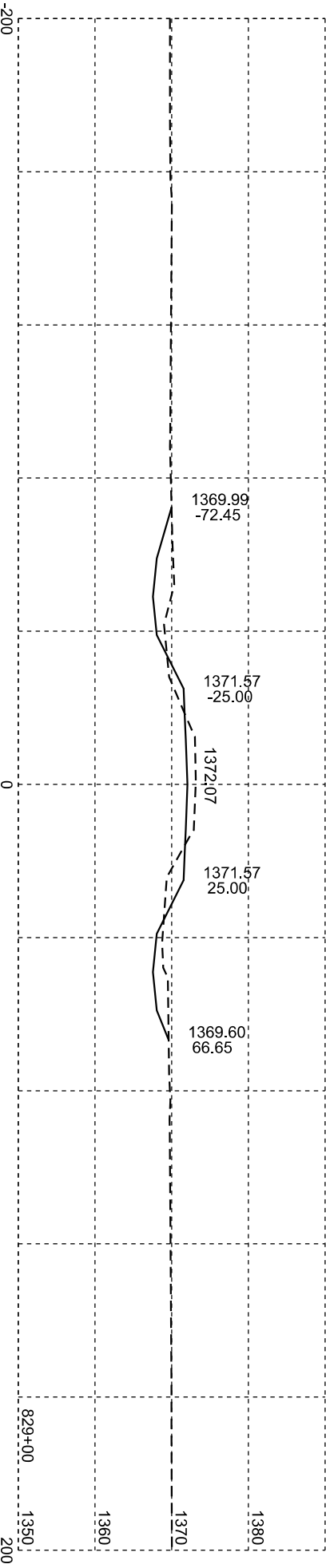
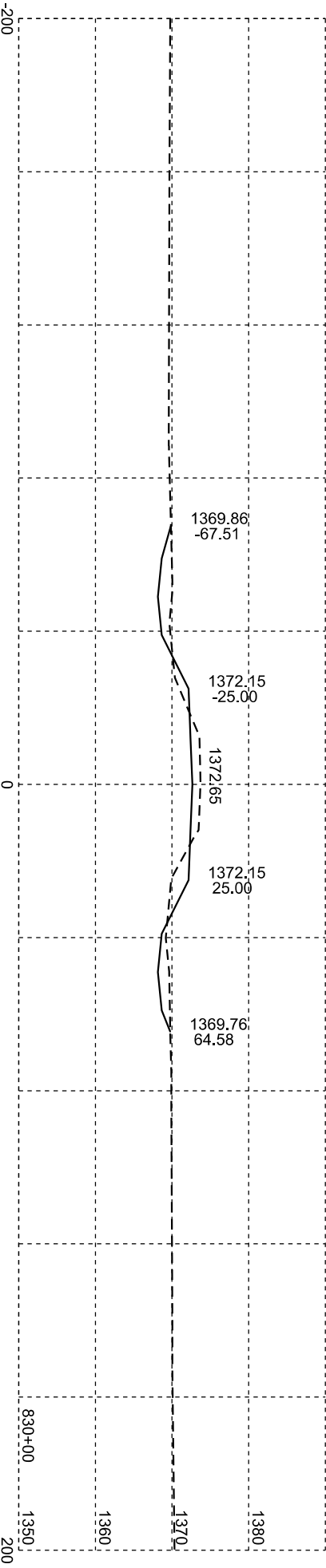
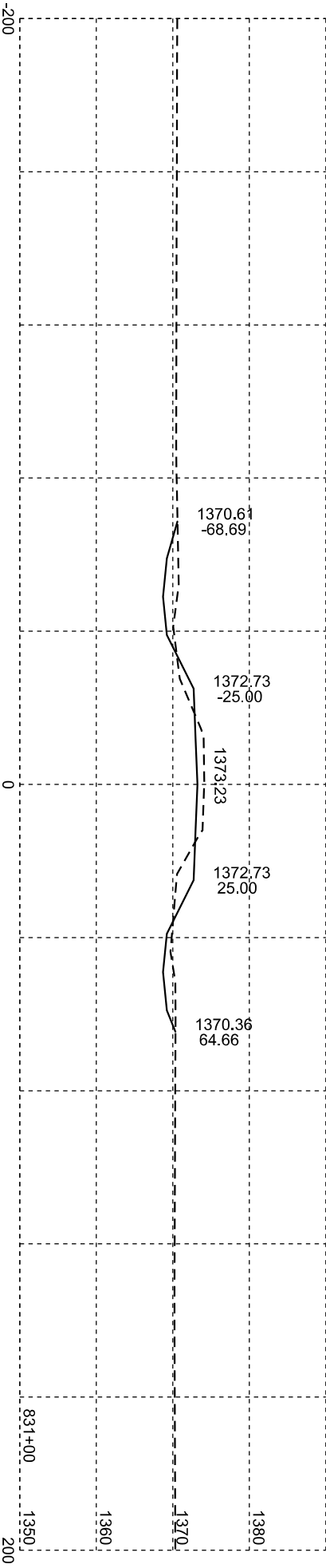
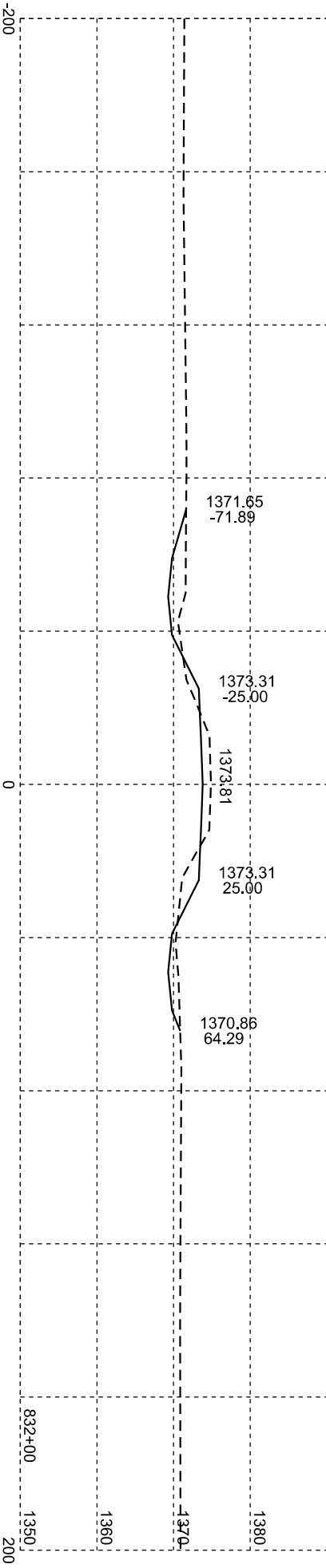
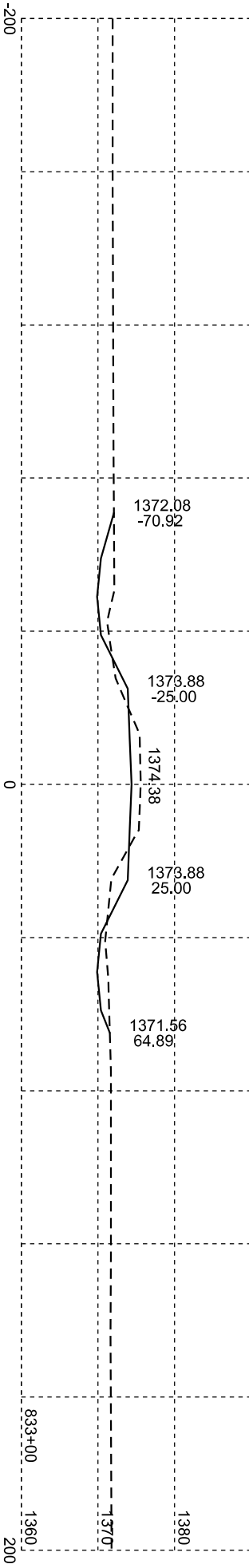
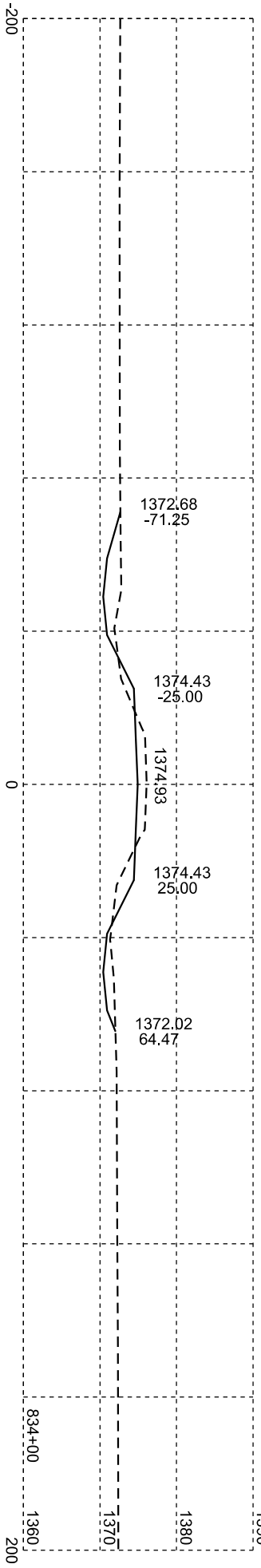






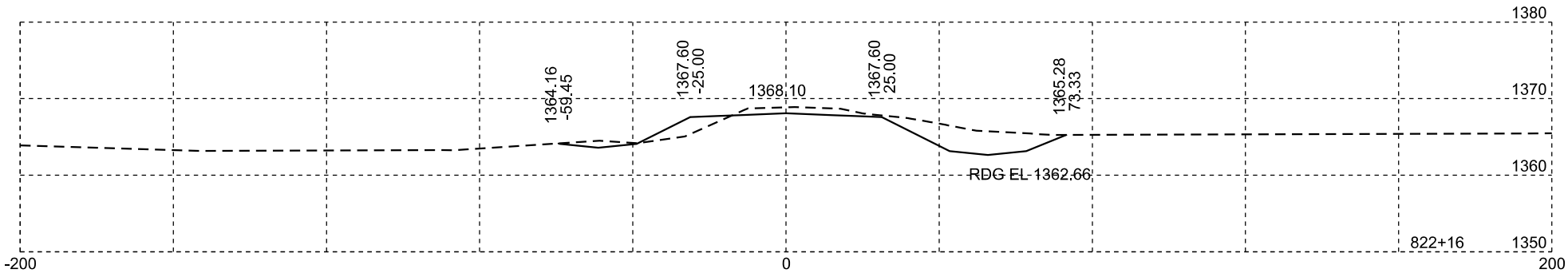
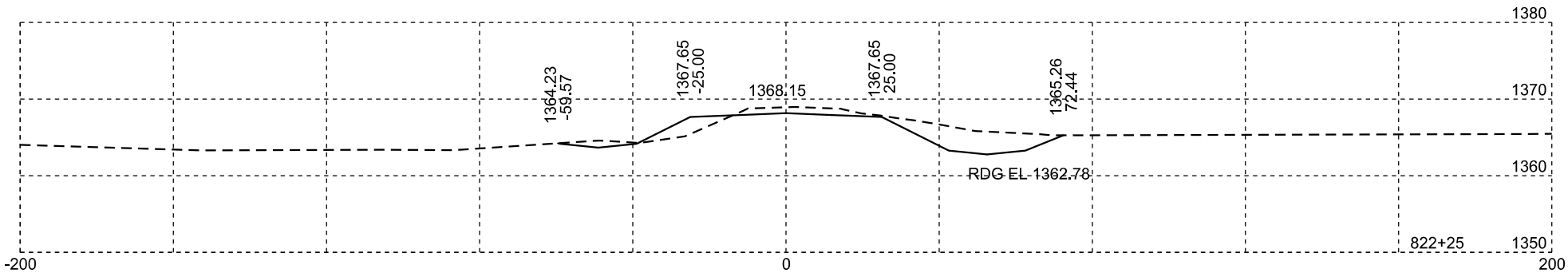
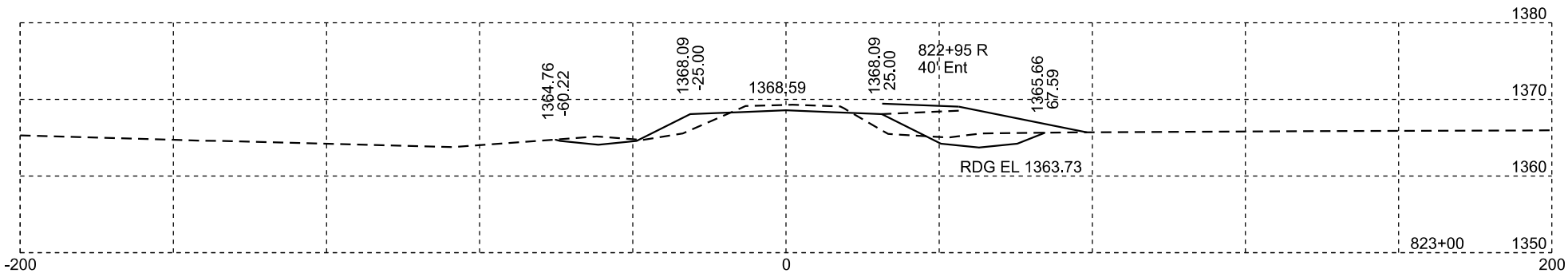
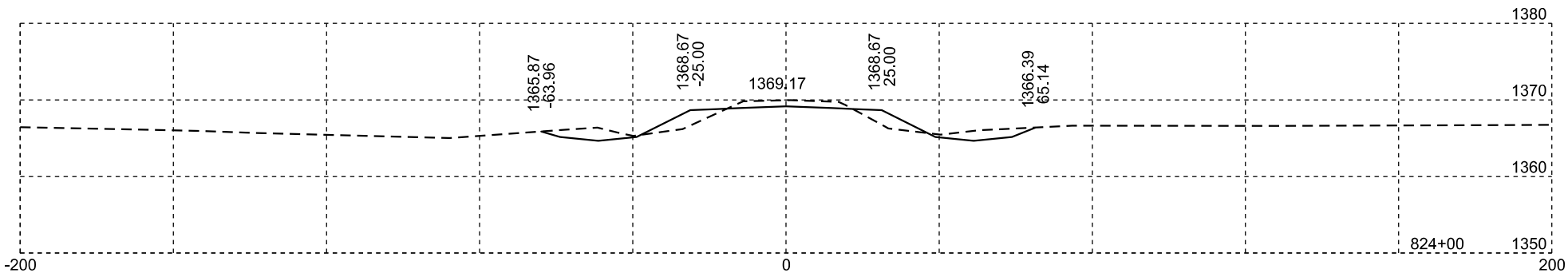
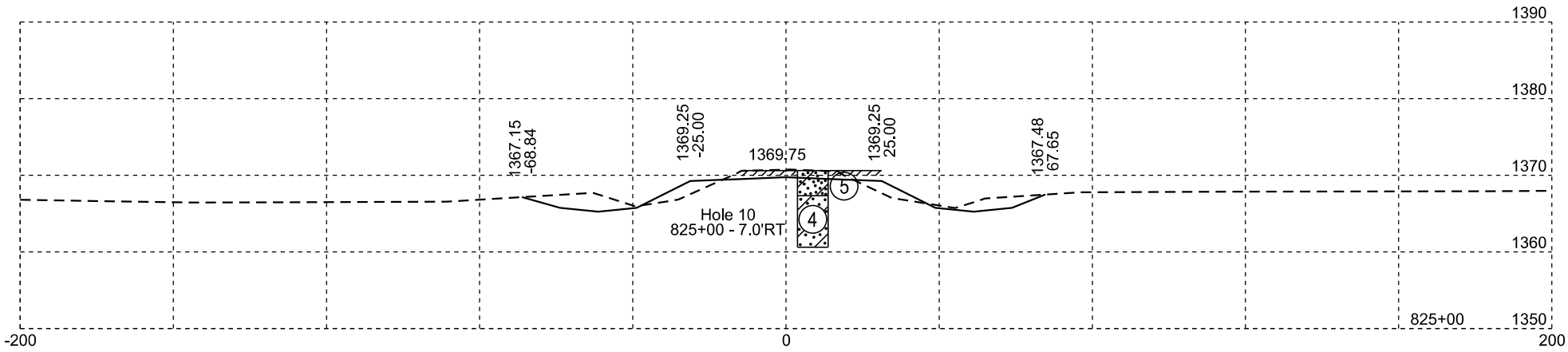
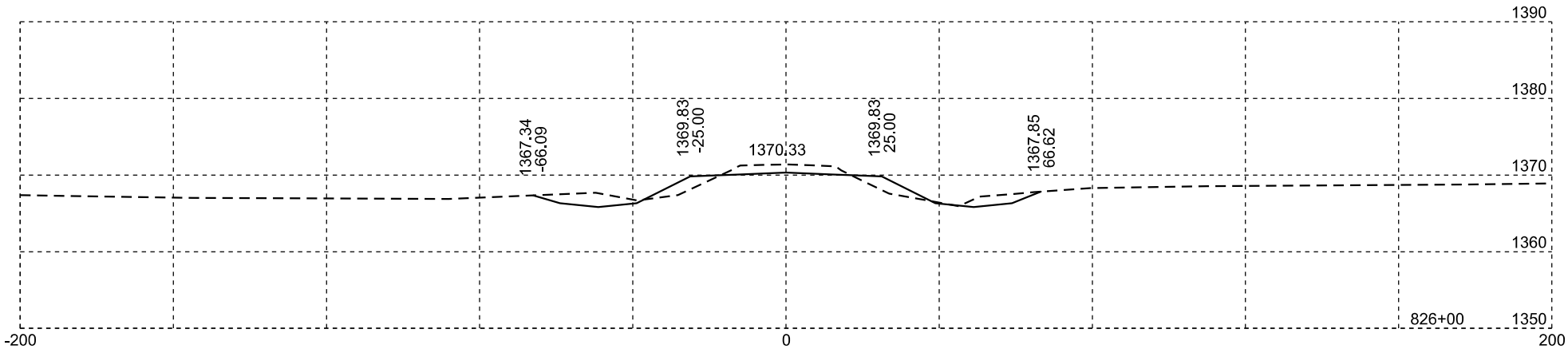
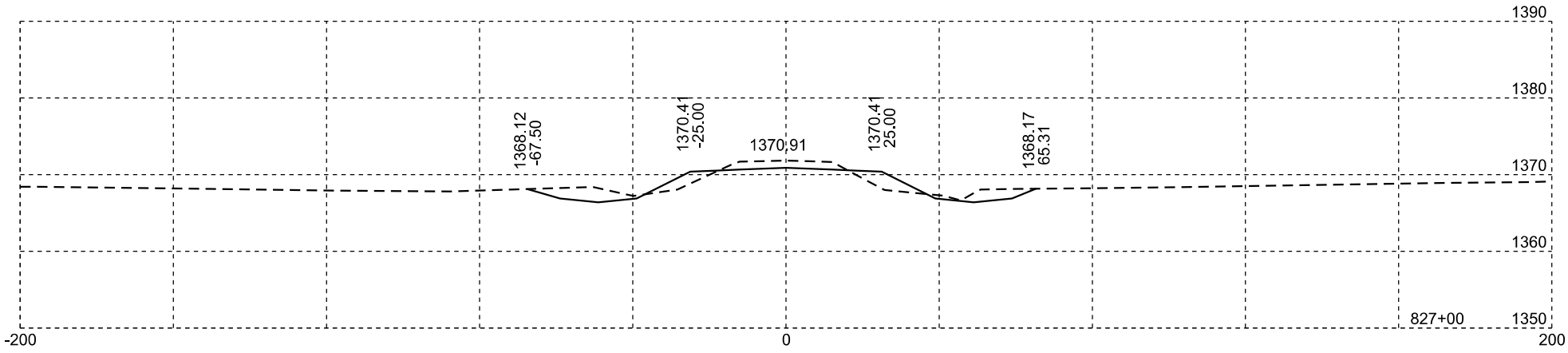
Plotting Date: 01/20/2026

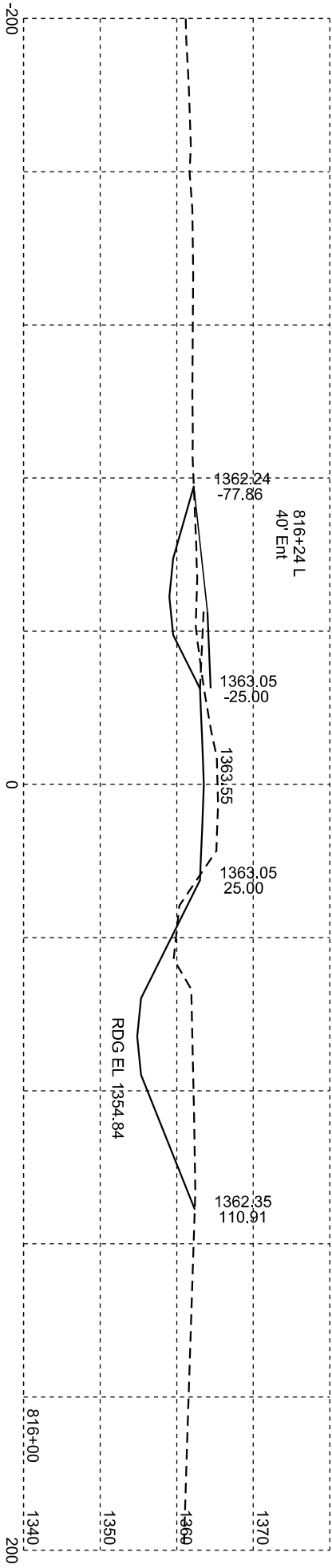
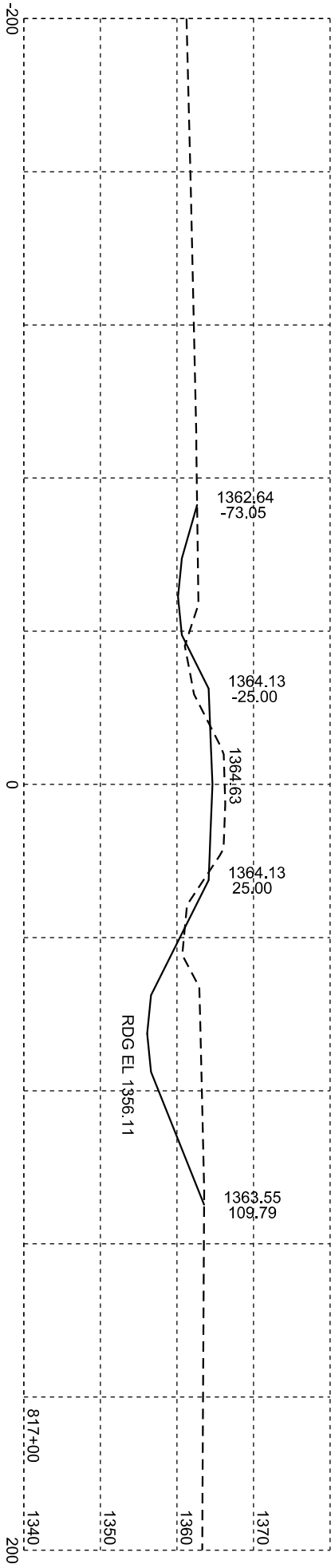
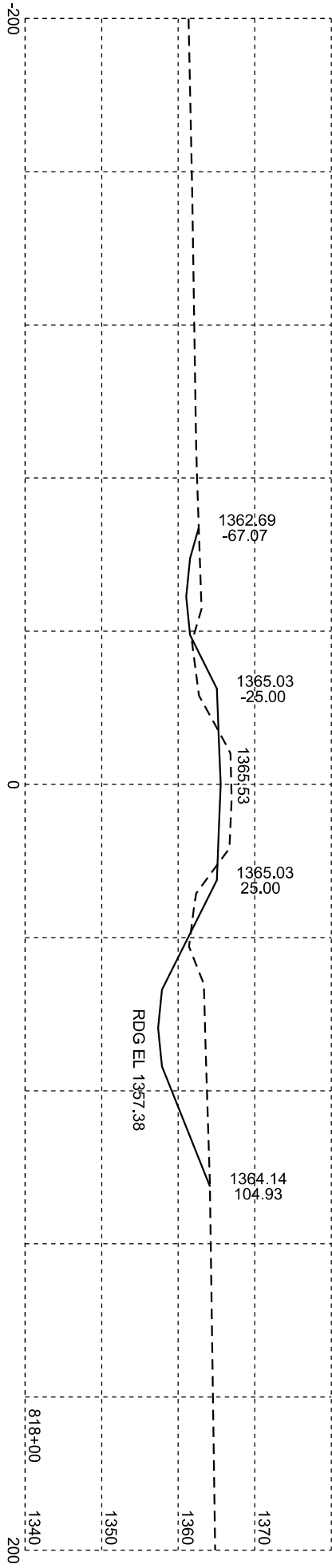
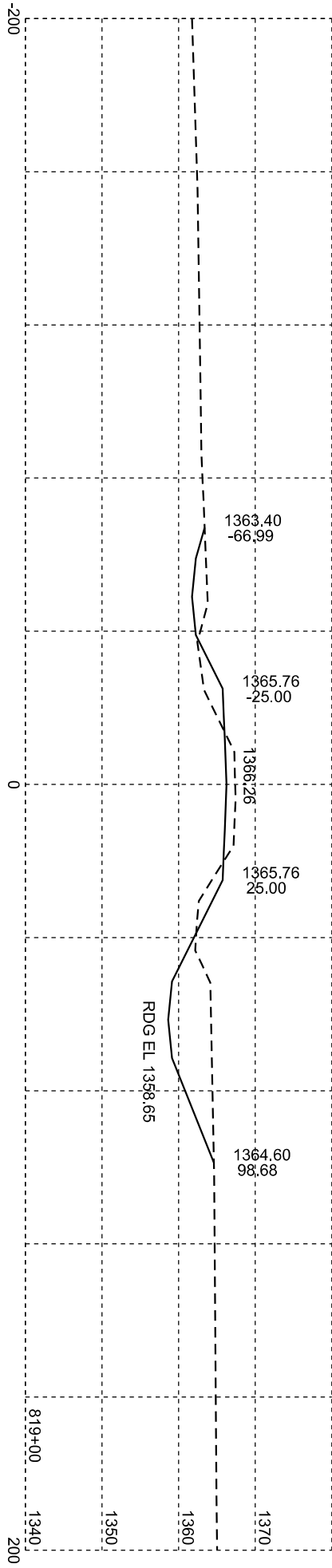
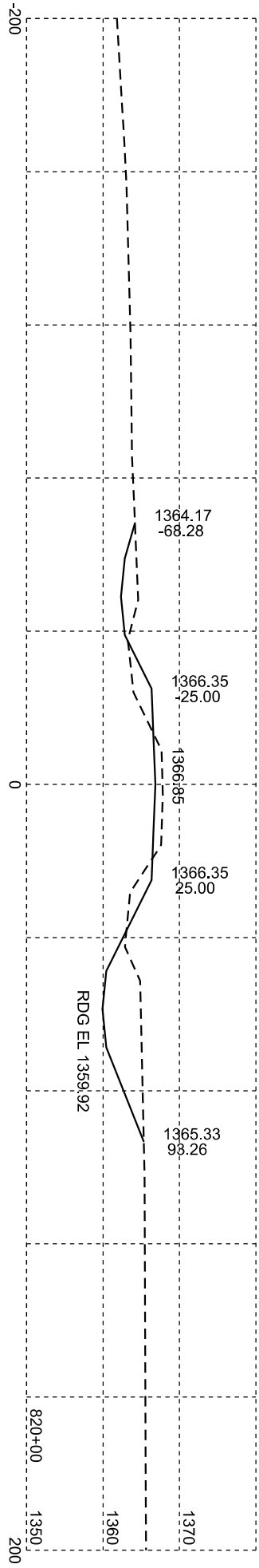
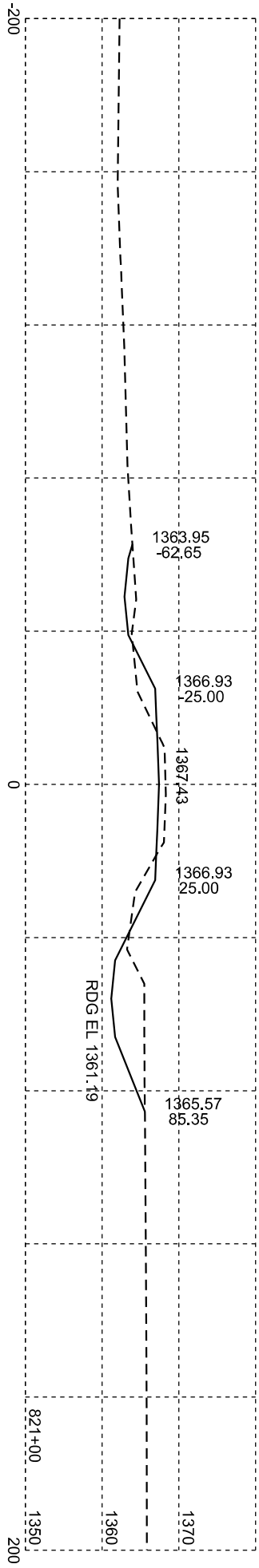
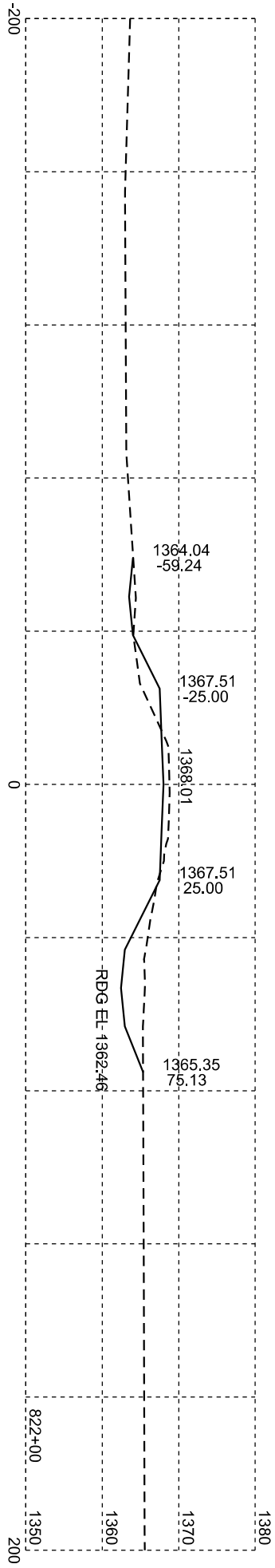
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X49	X99



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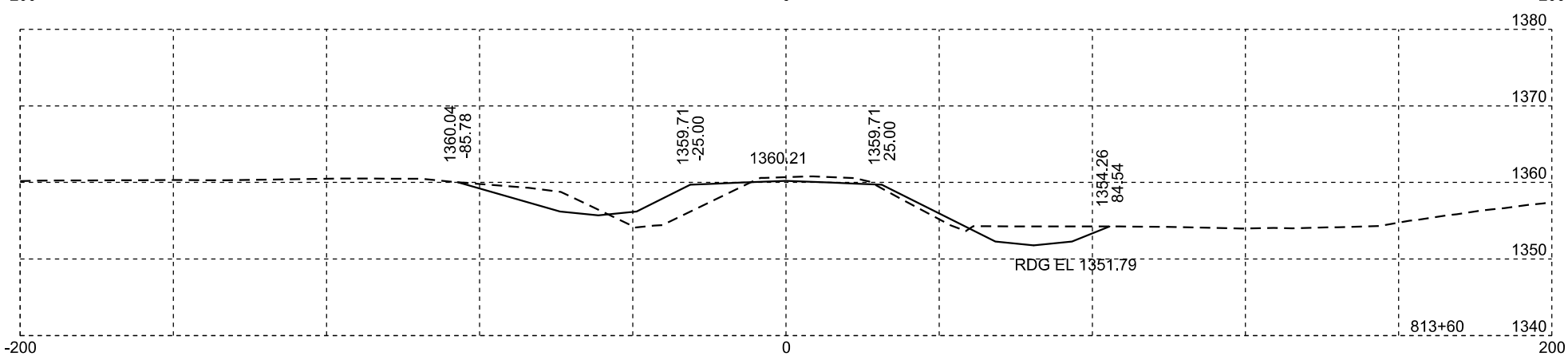
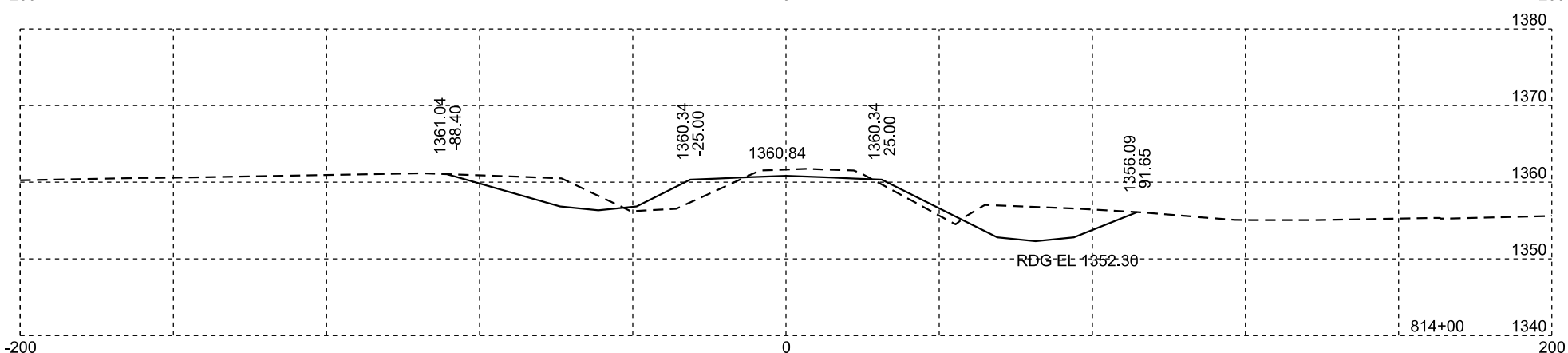
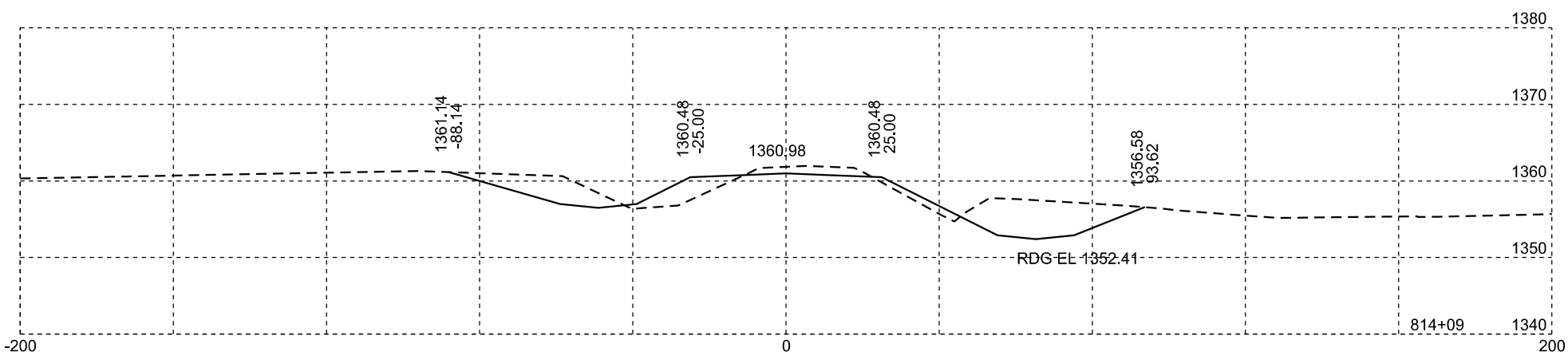
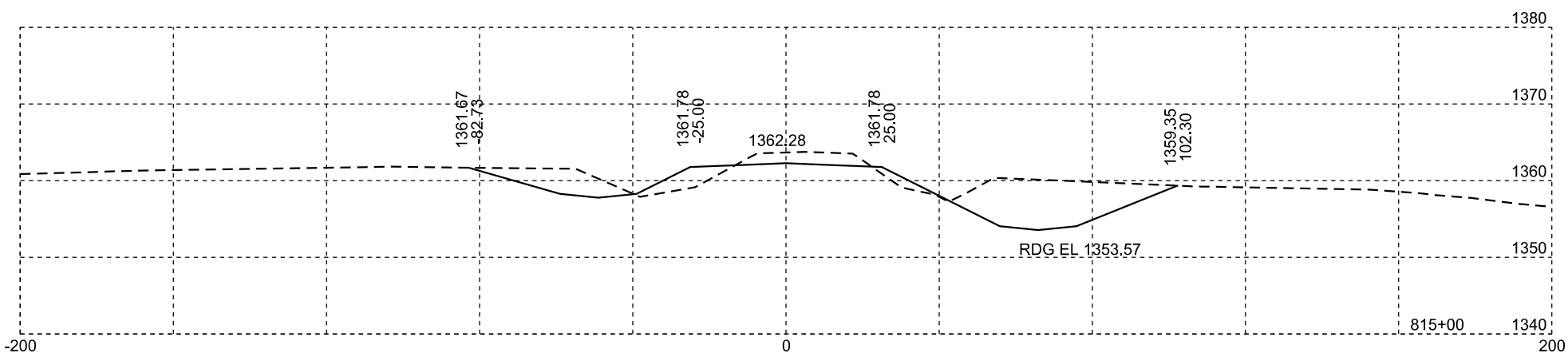
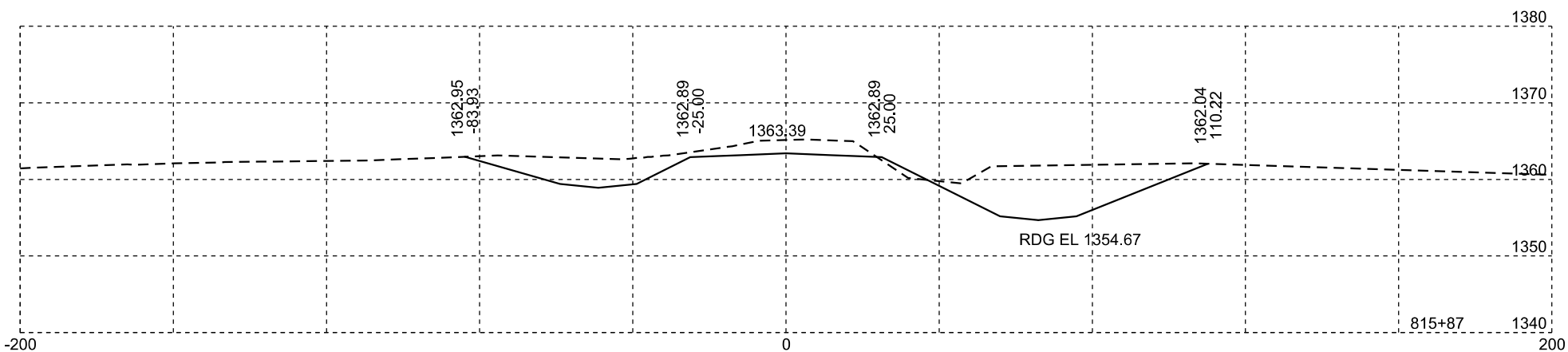
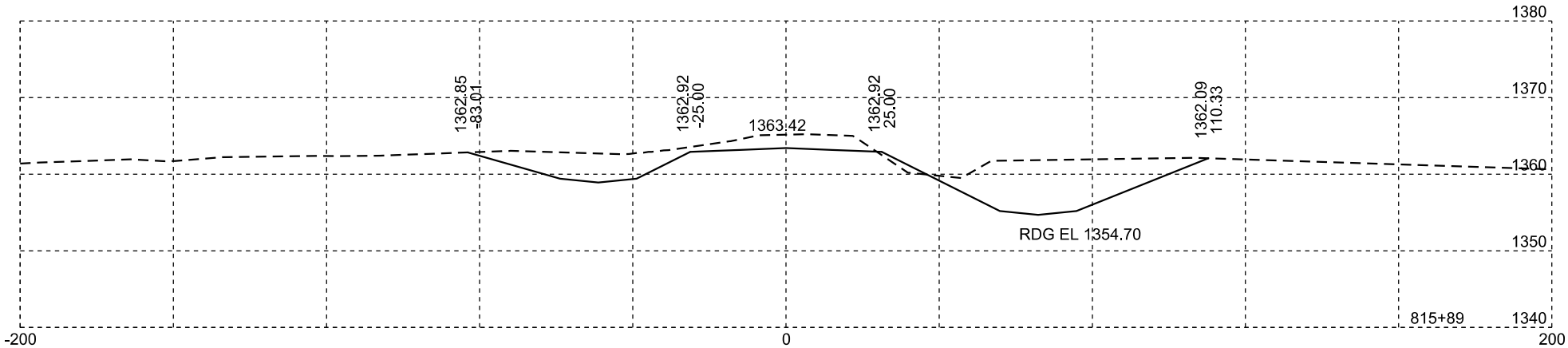
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X50	X99

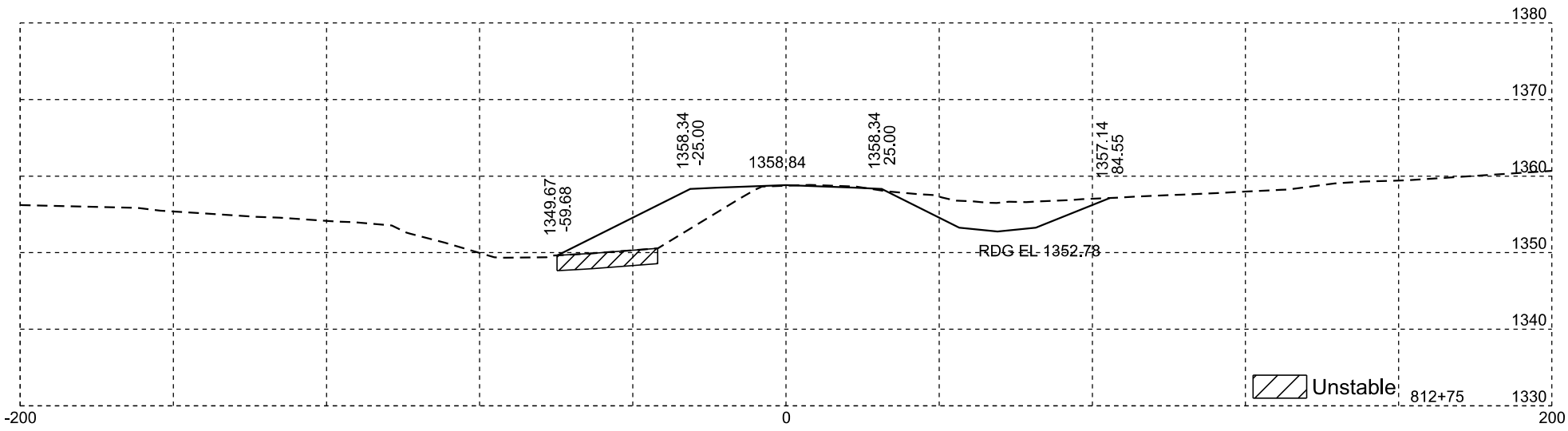
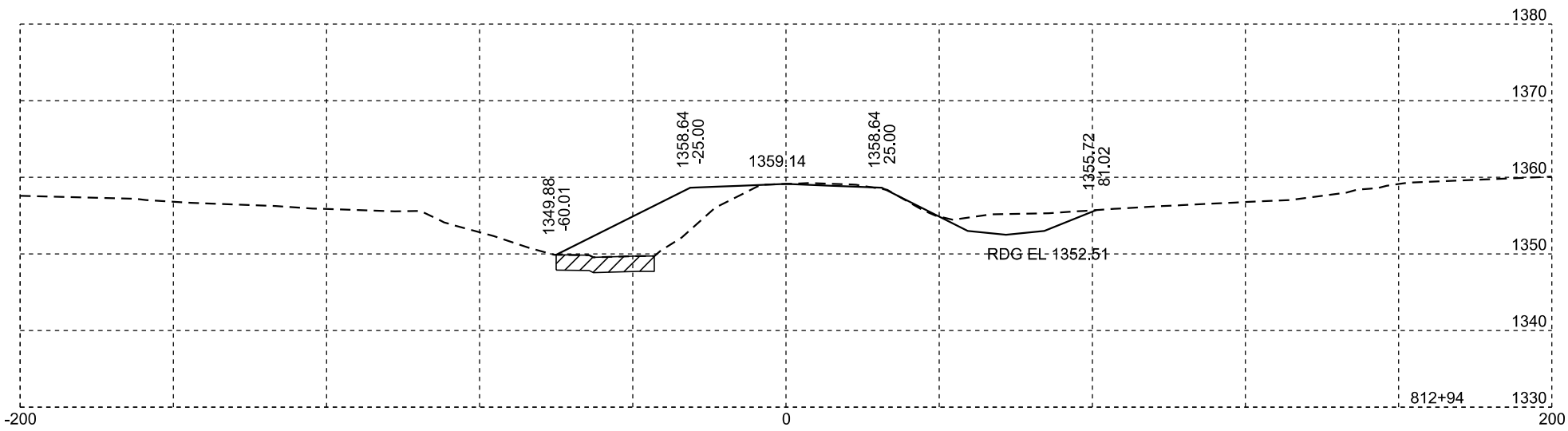
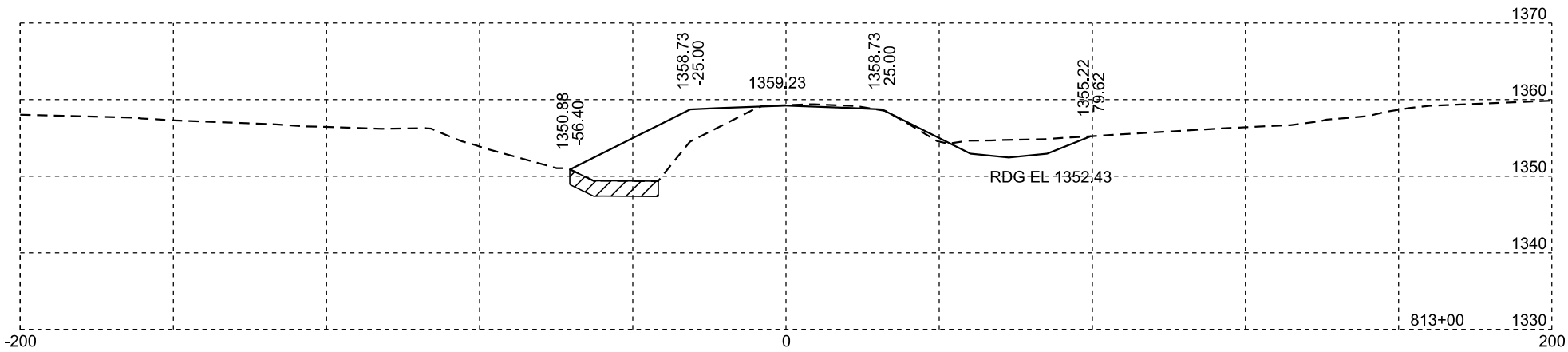
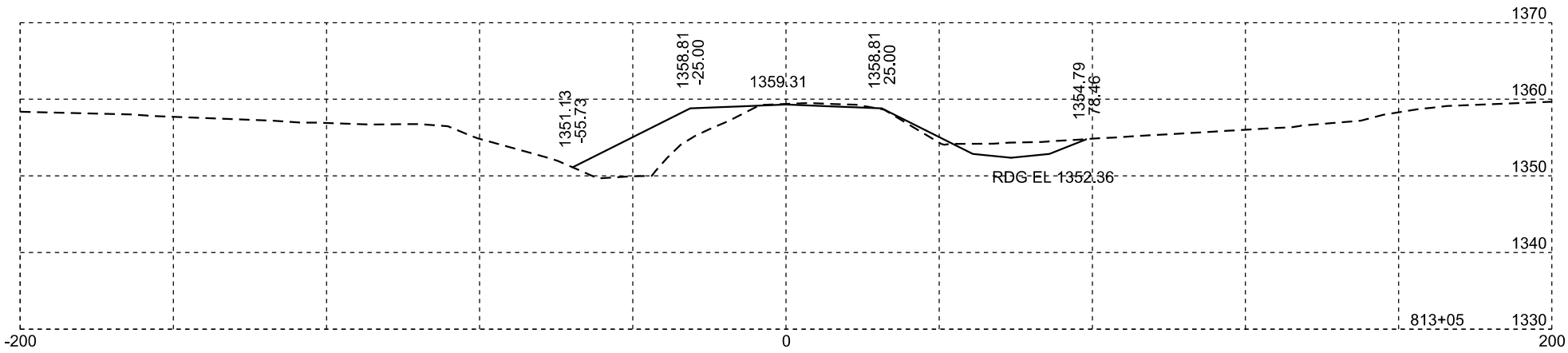
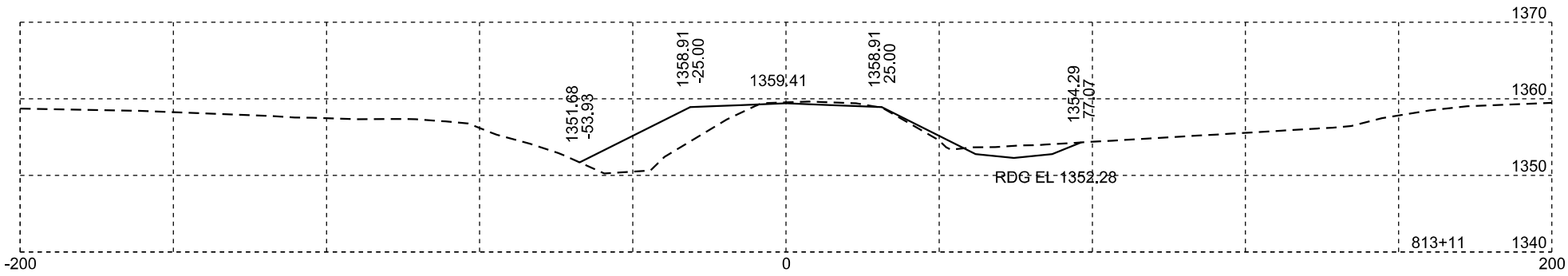
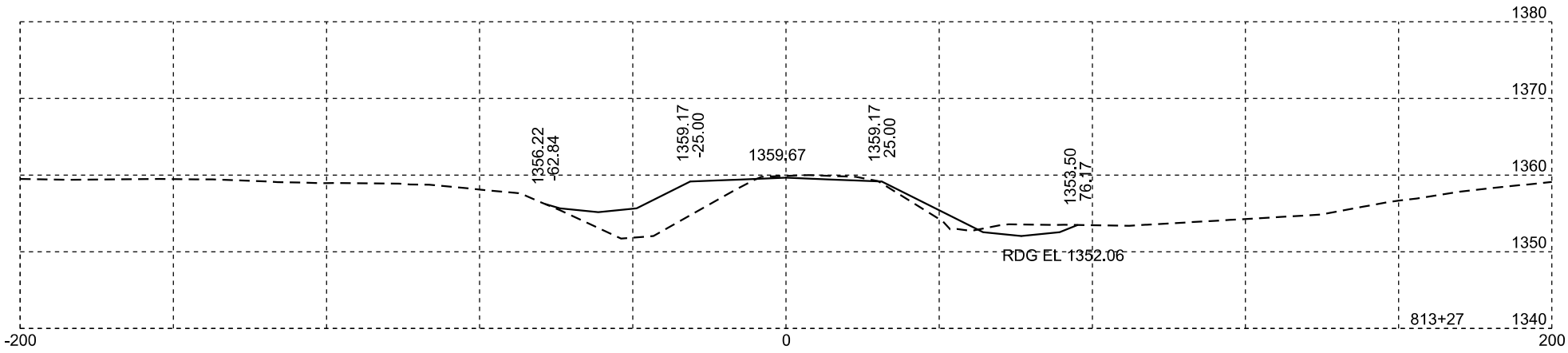




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STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X52	X99

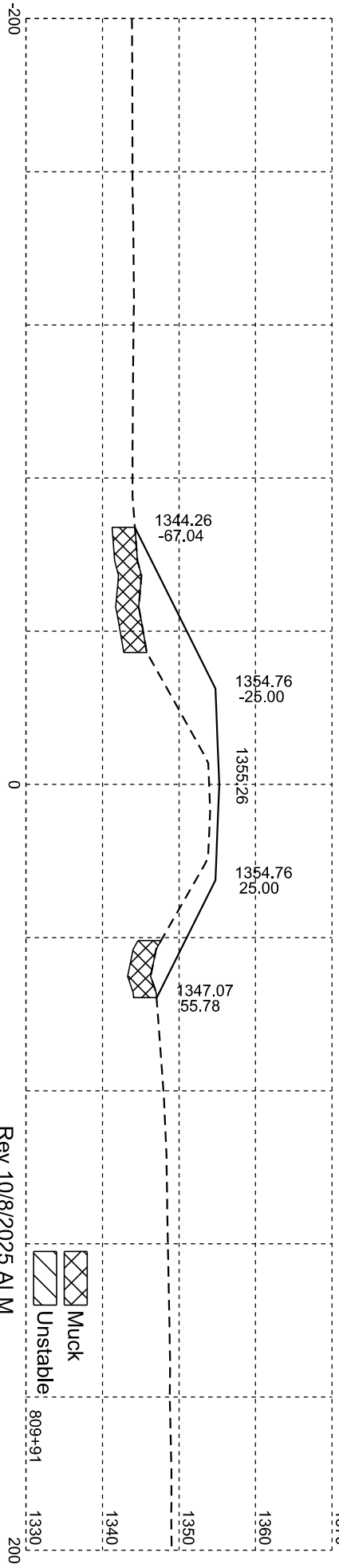
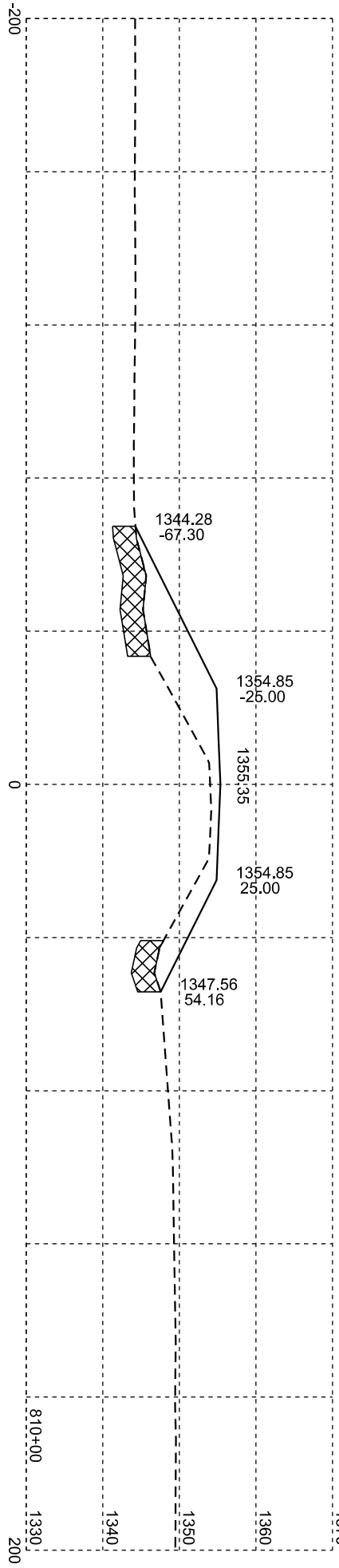
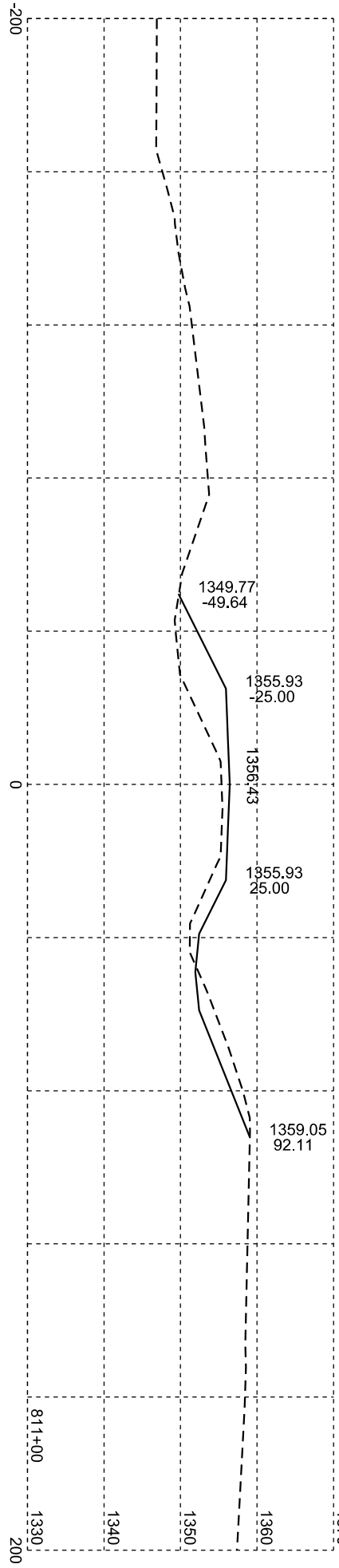
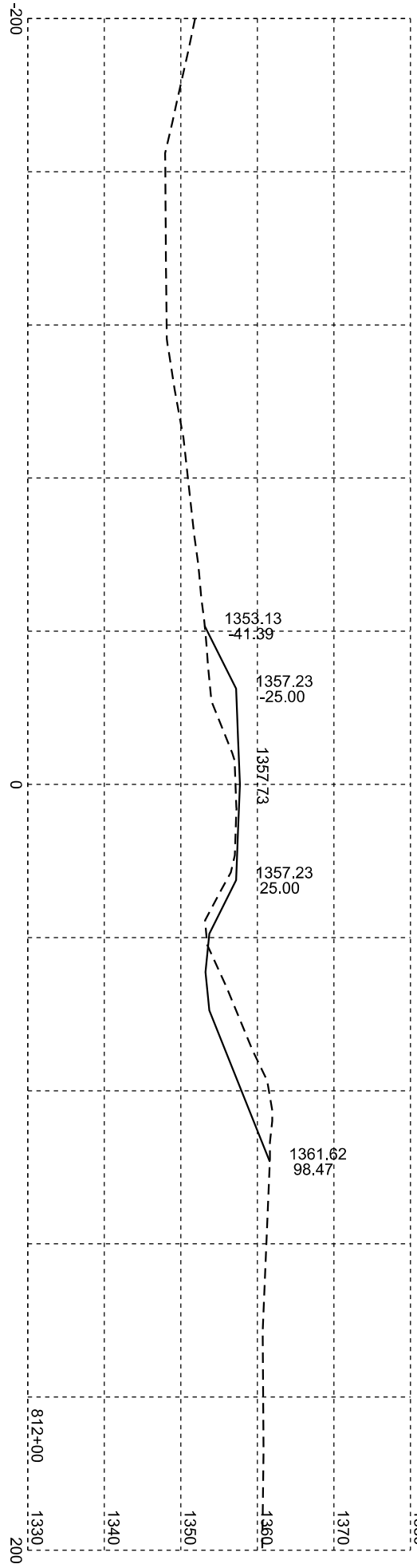
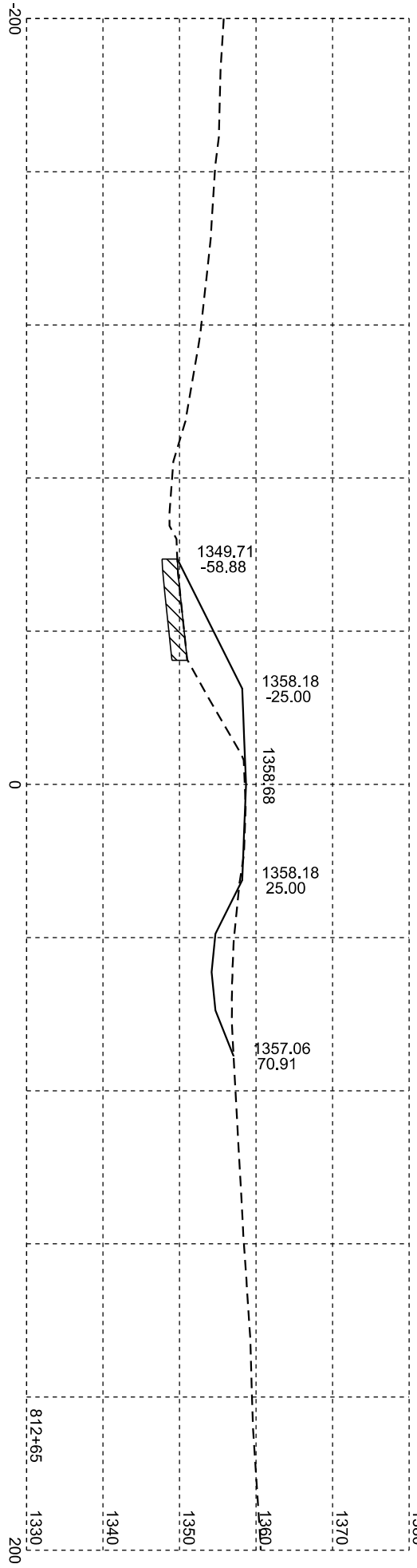
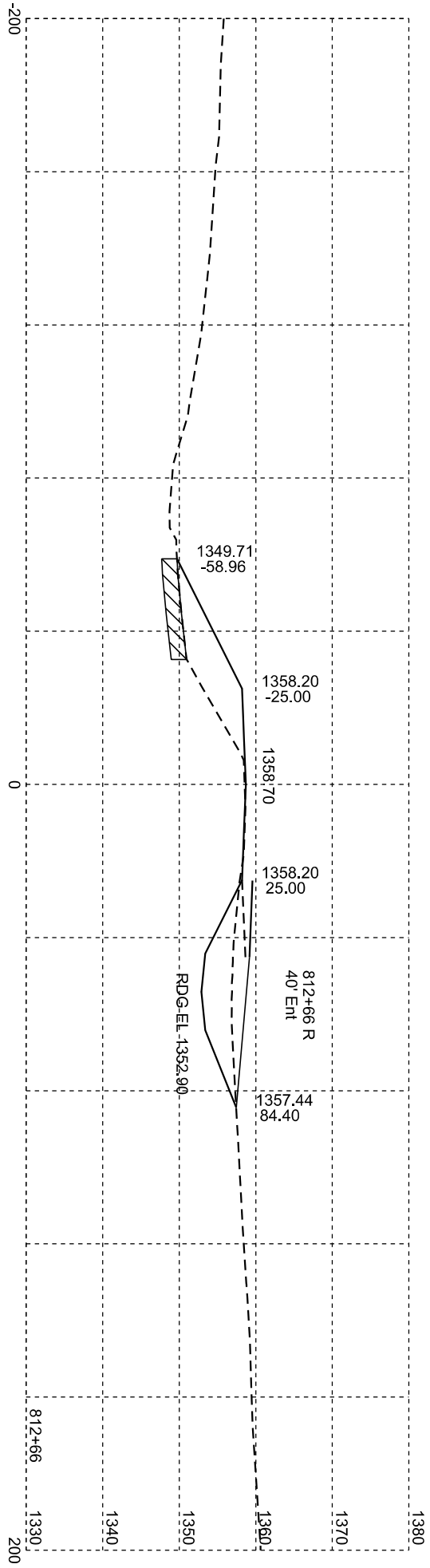




Unstable

Plotting Date: 01/20/2026

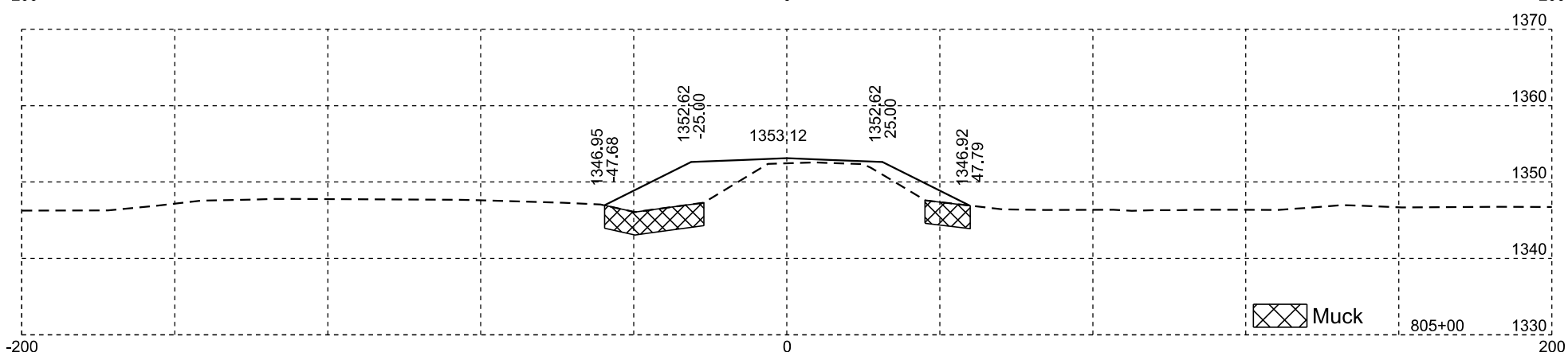
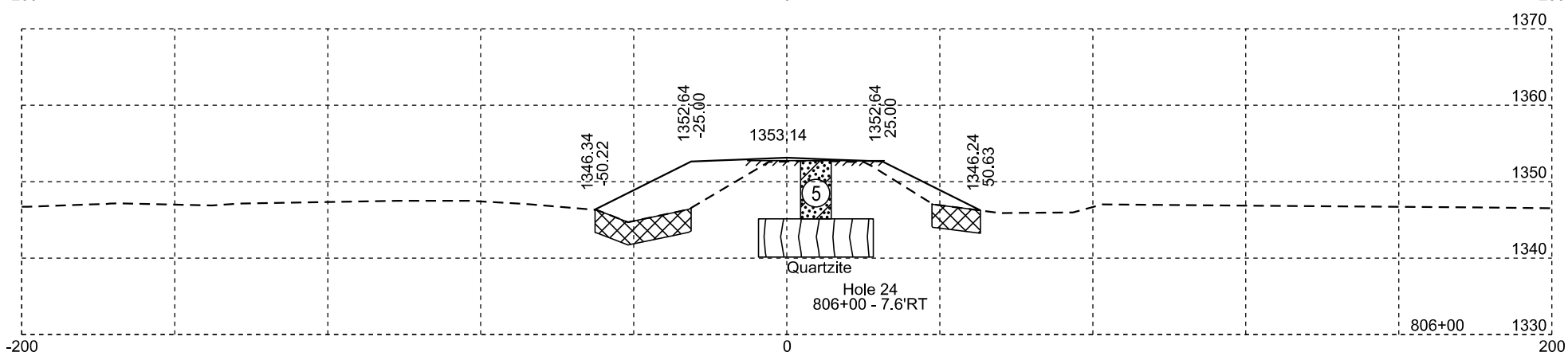
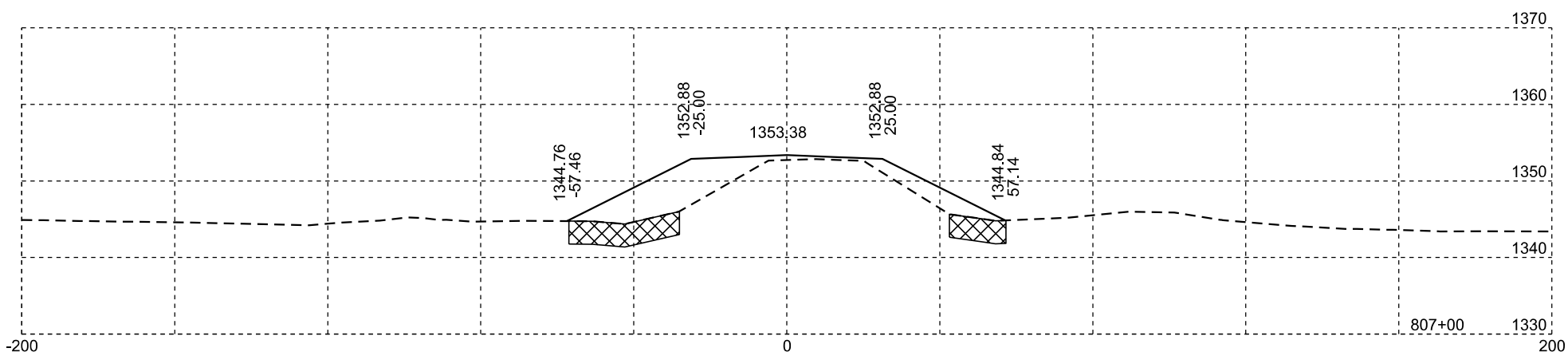
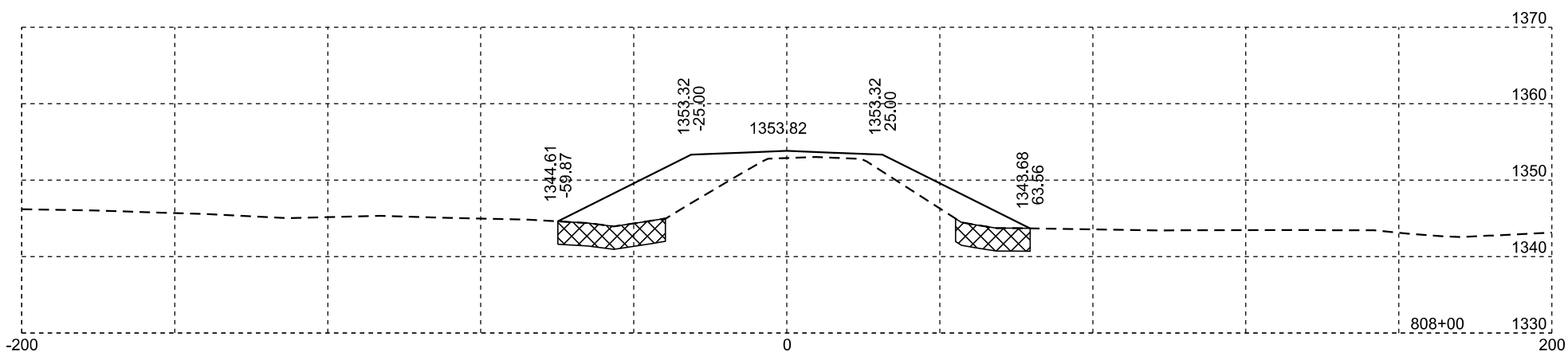
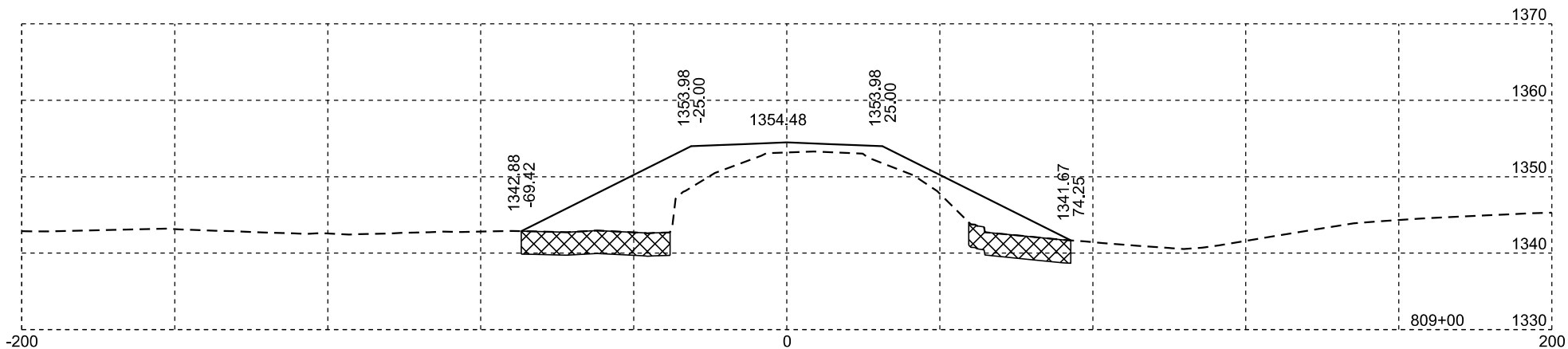
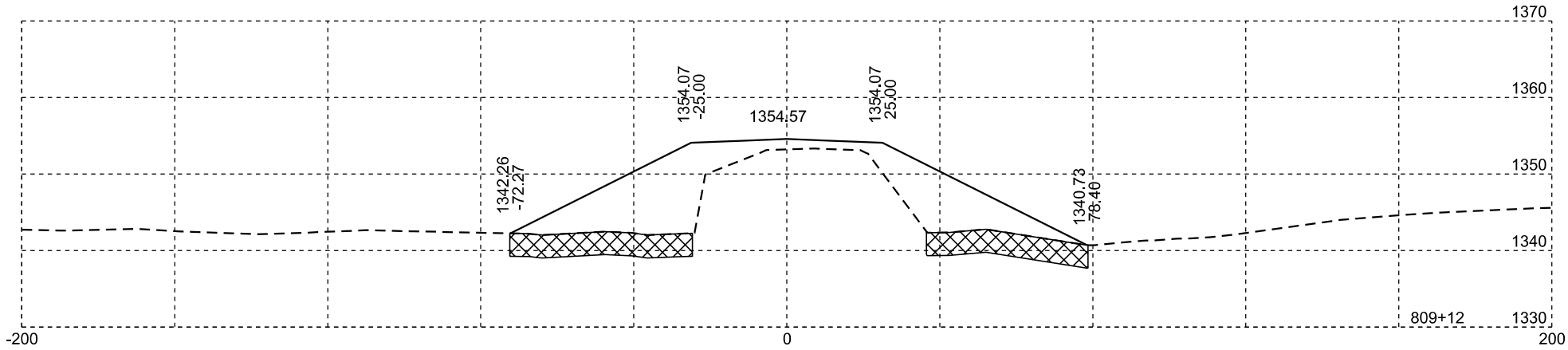
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X54	X99



Muck
Unstable

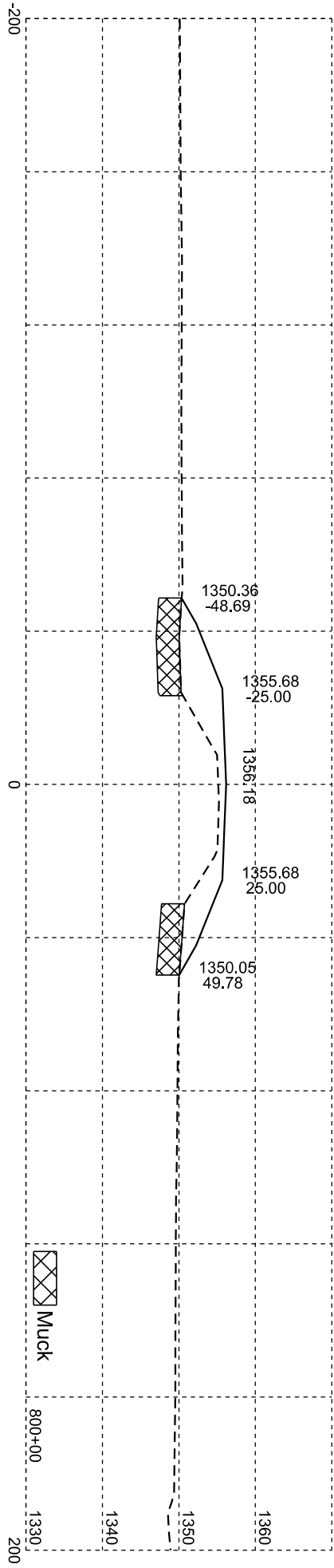
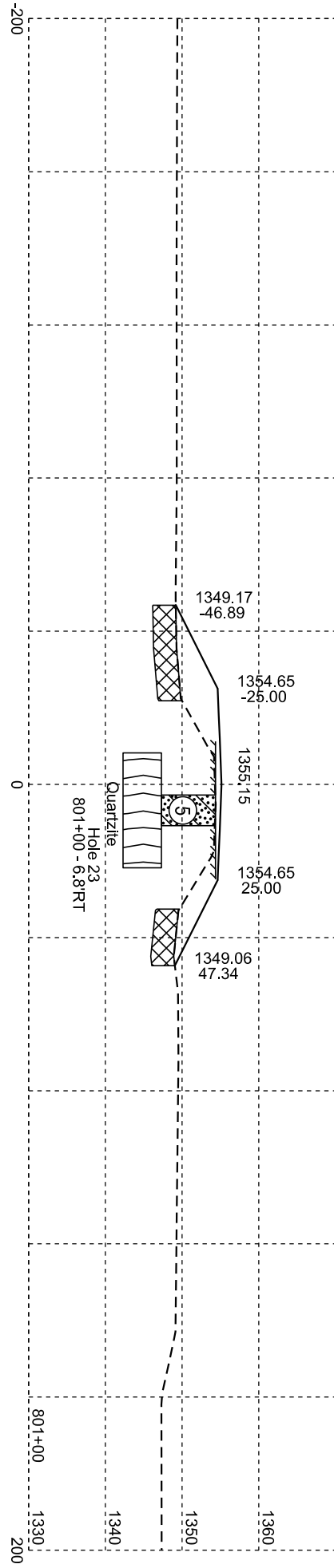
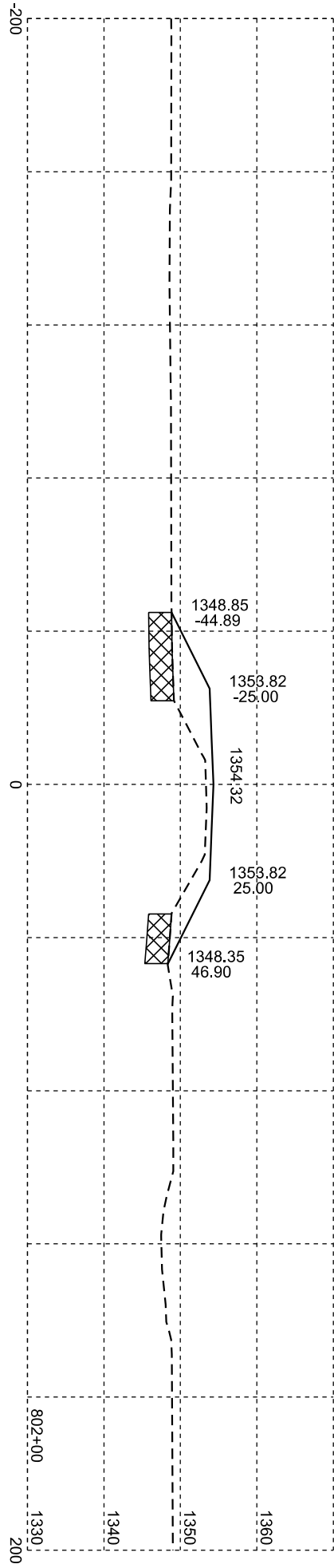
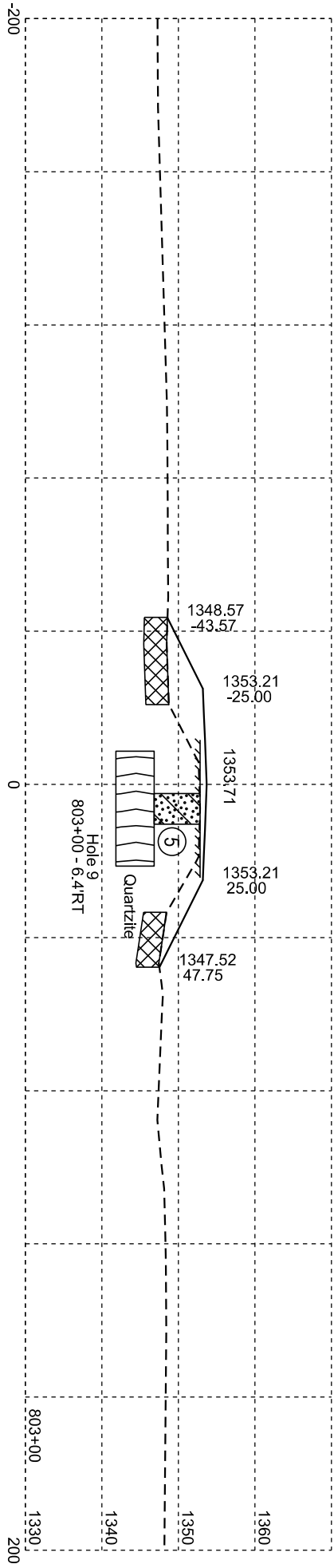
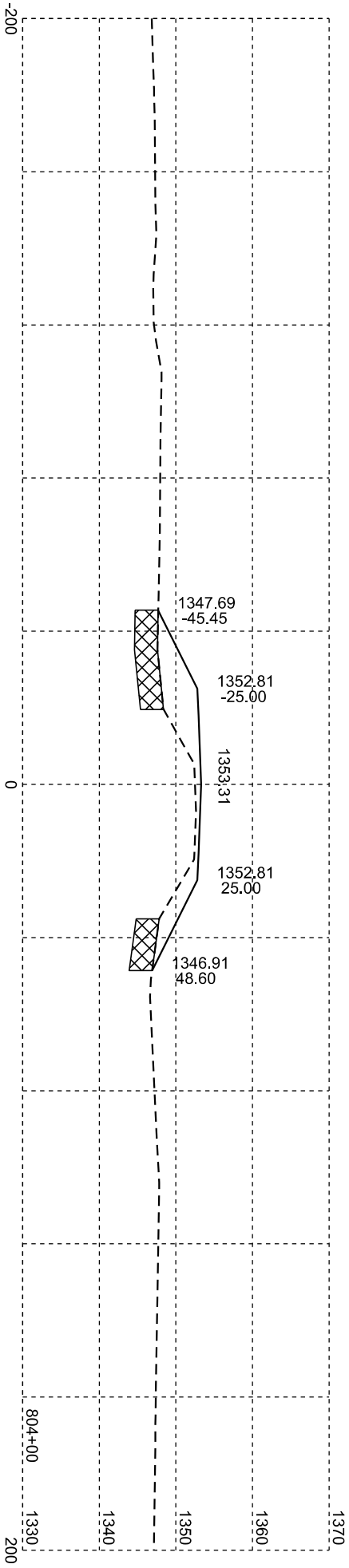
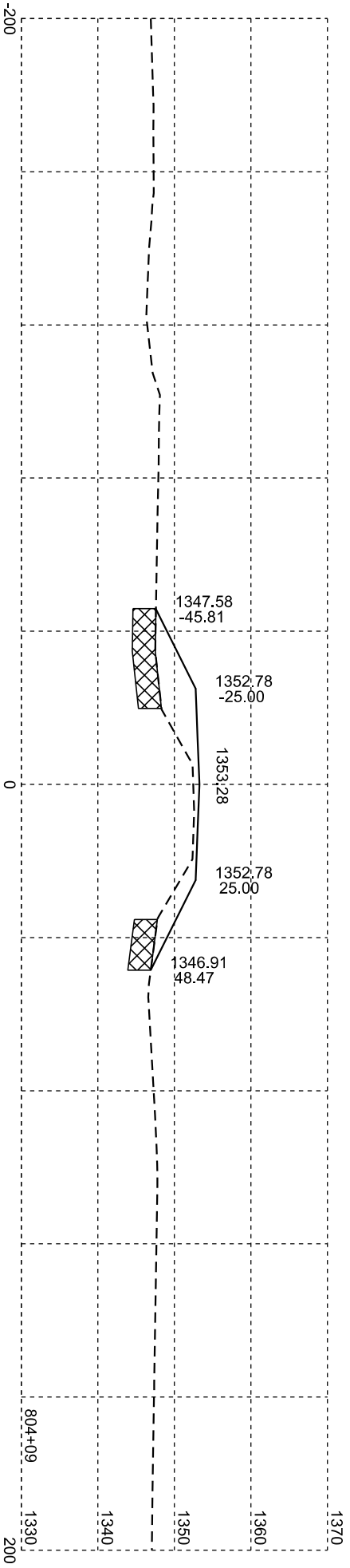
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STATE OF SOUTH DAKOTA	PROJECT
	P-PH 0038(48)306
SHEET NO.	S55
	X99



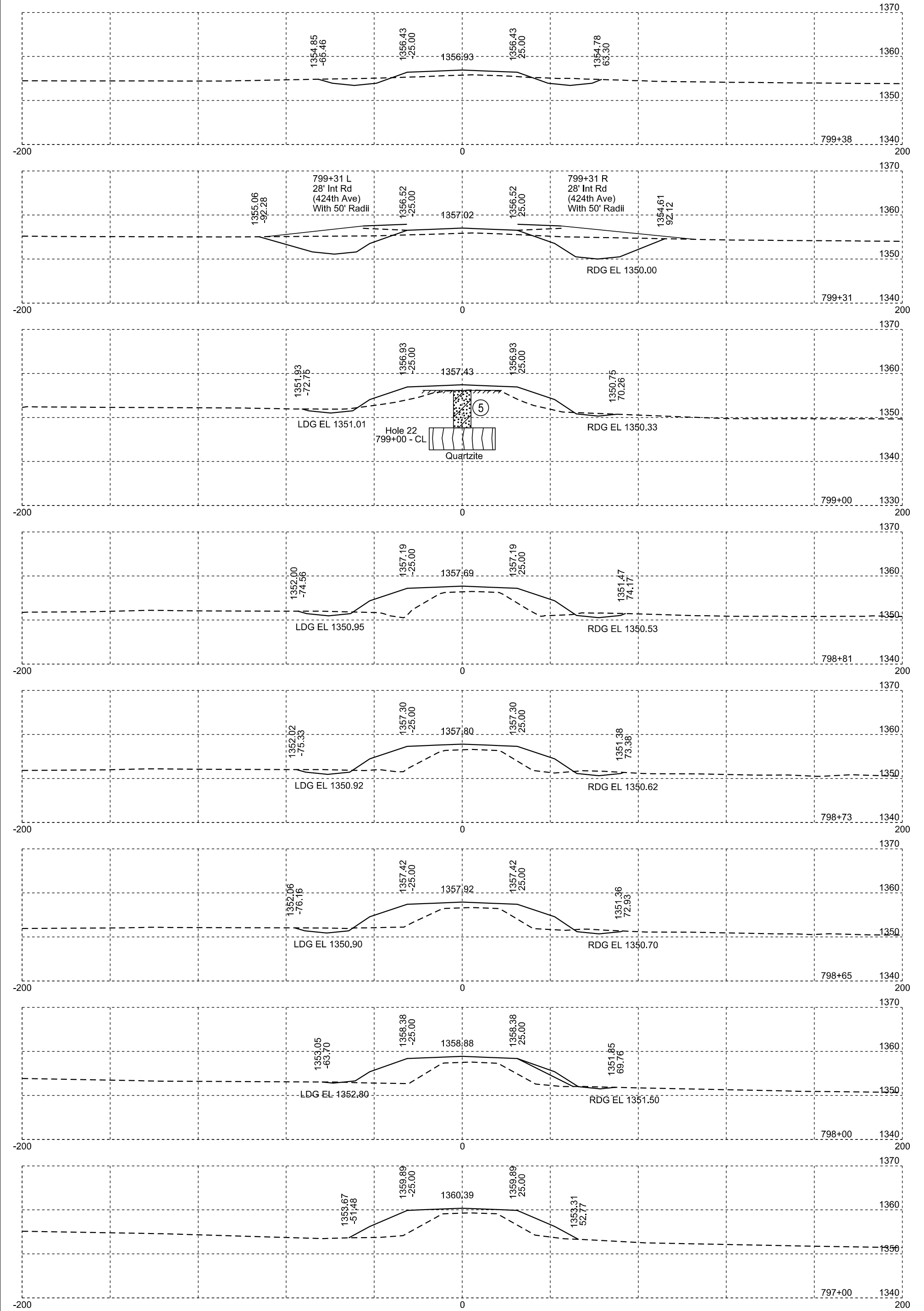
Plotting Date: 01/20/2026

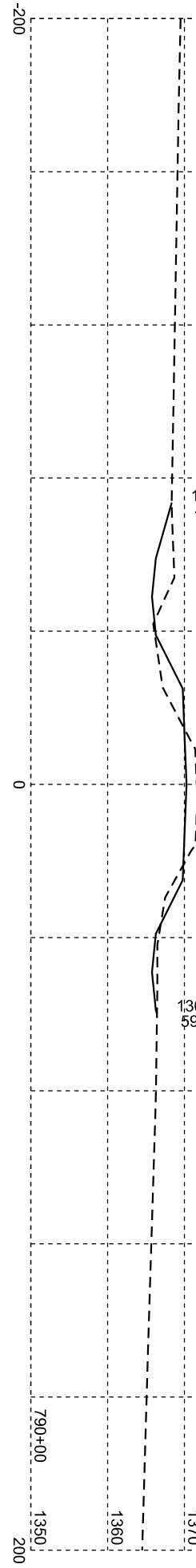
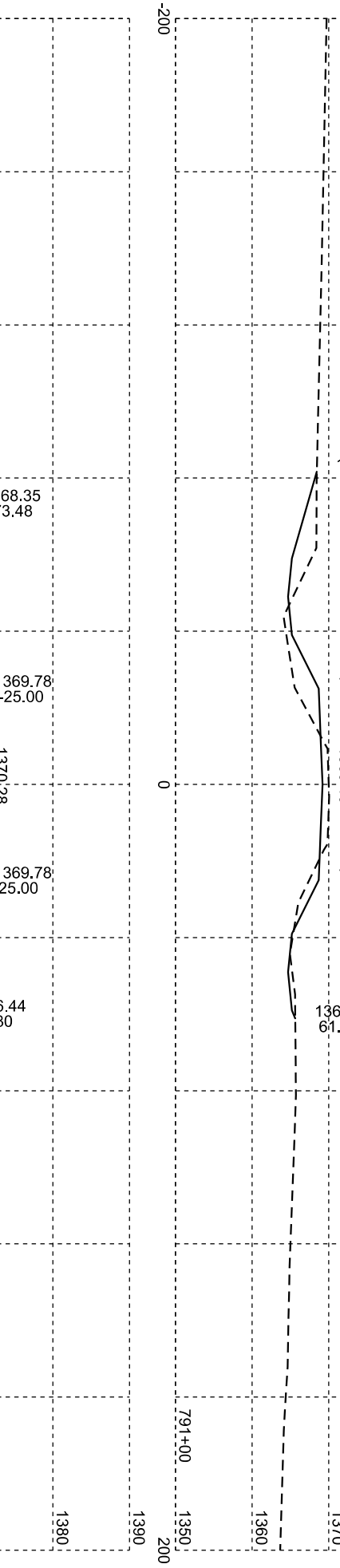
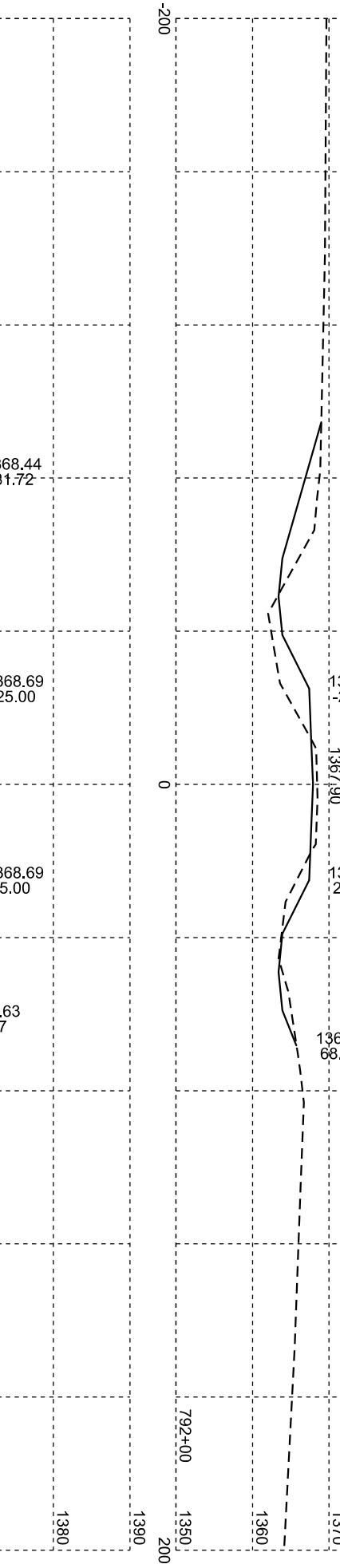
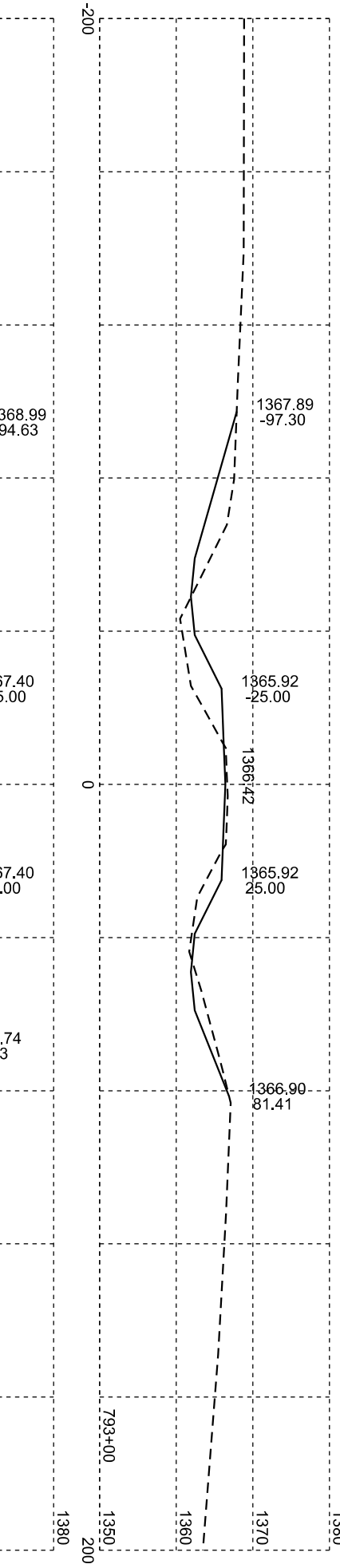
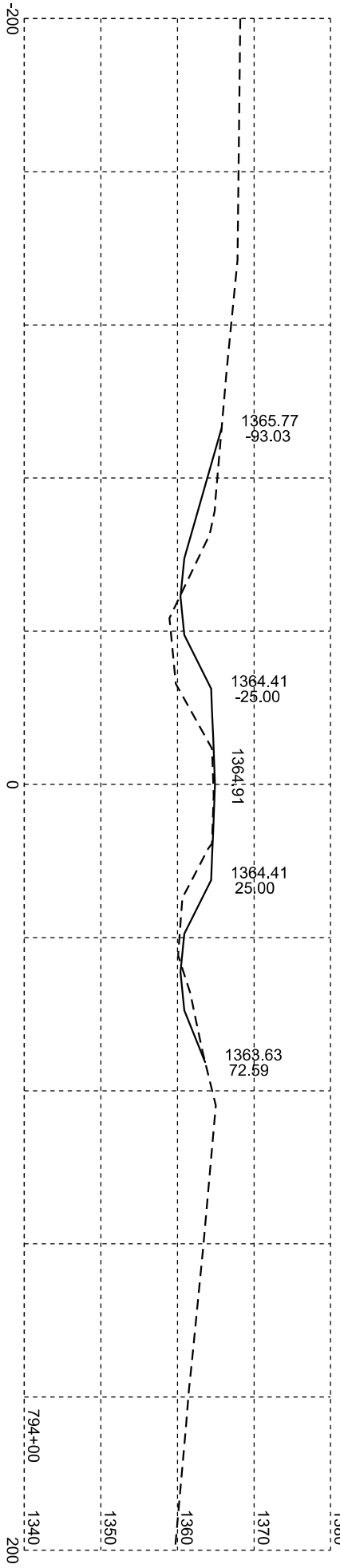
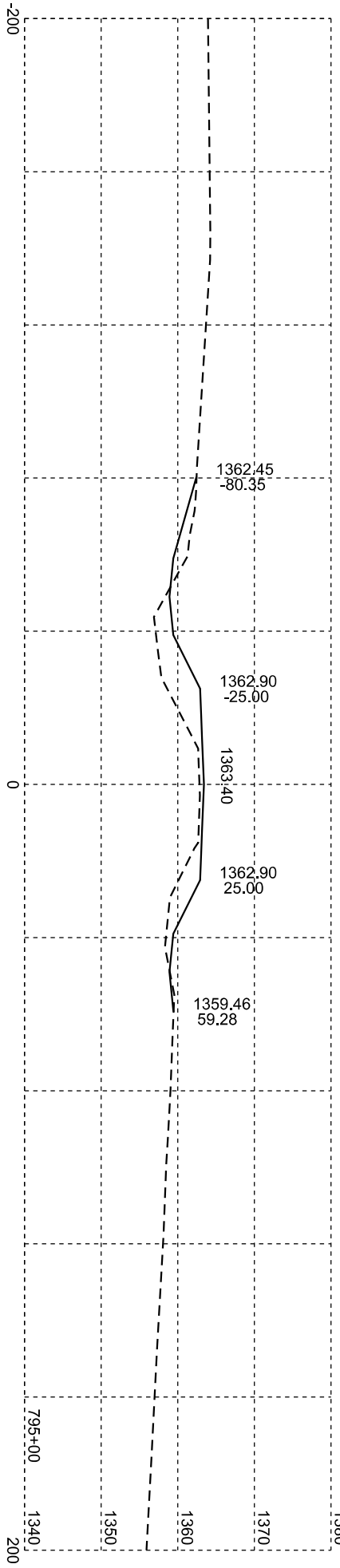
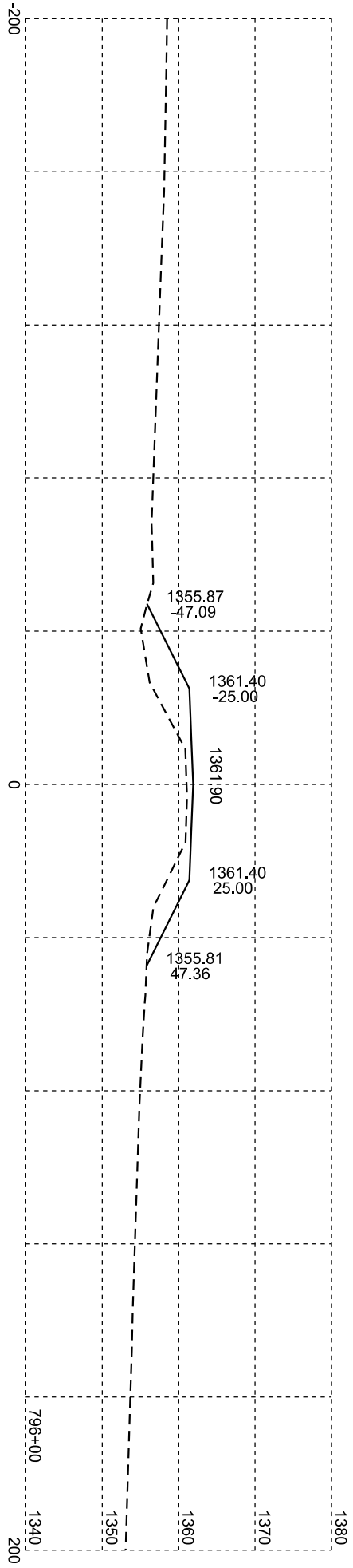
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X56	X99



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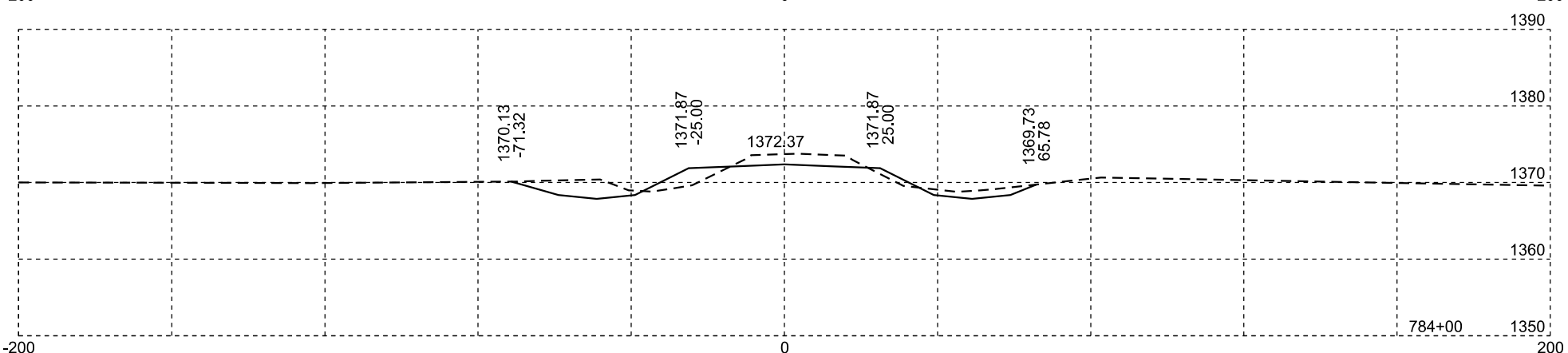
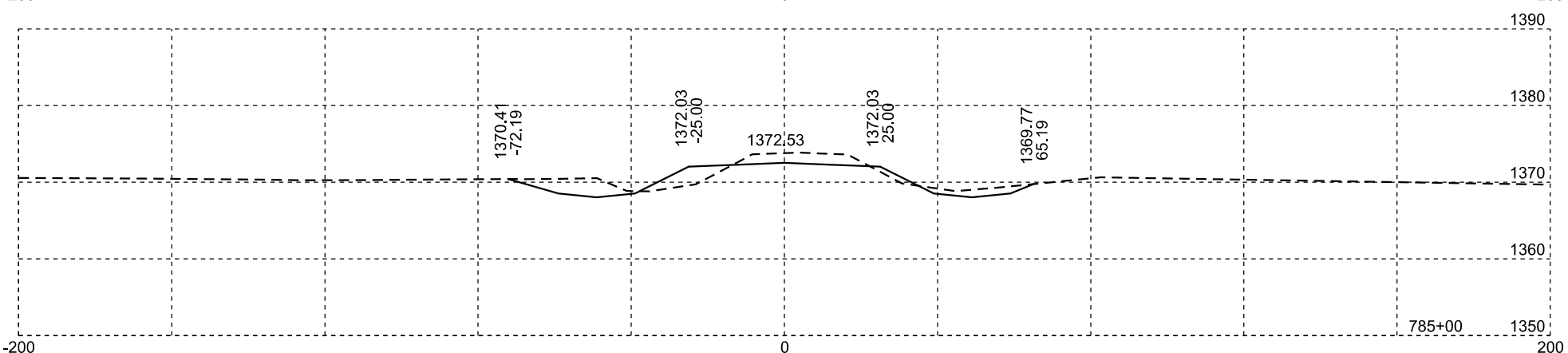
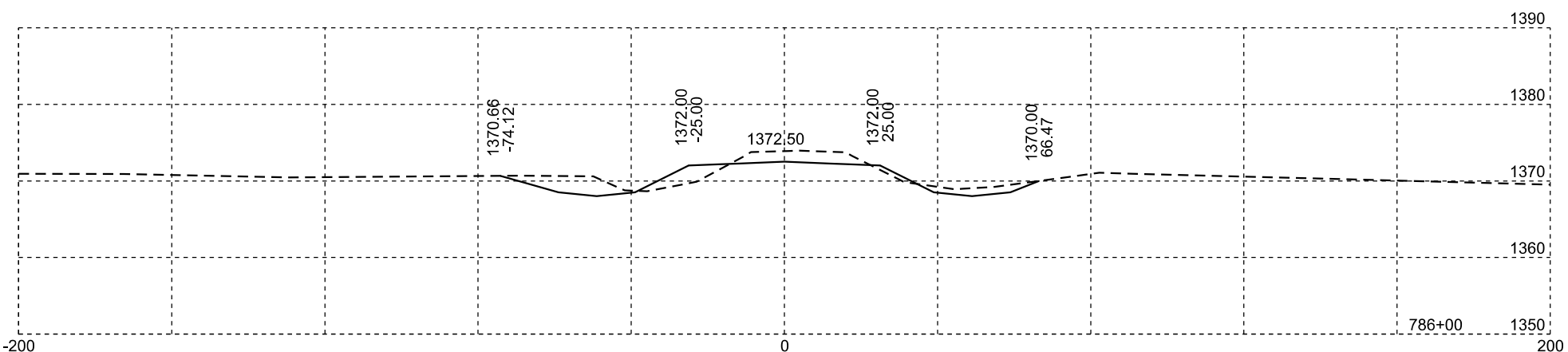
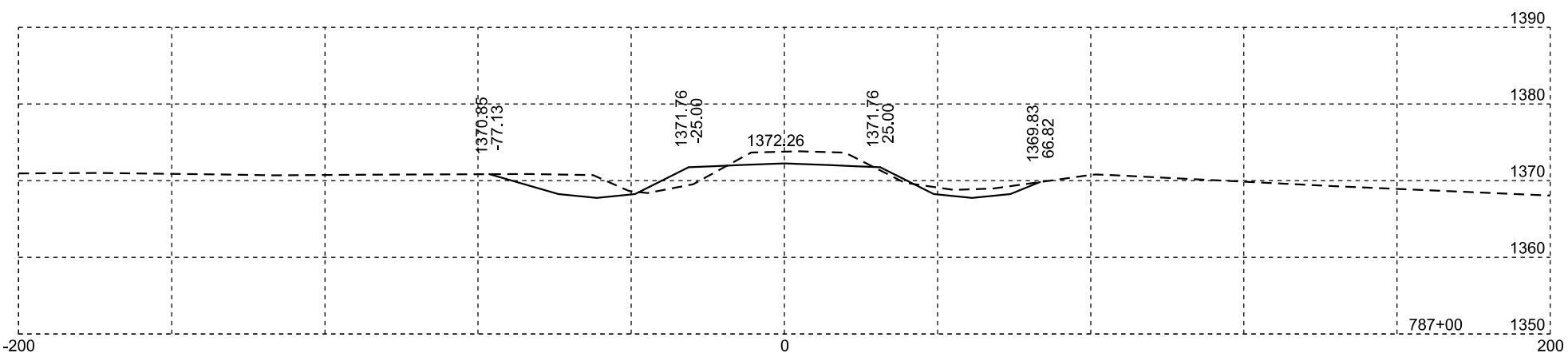
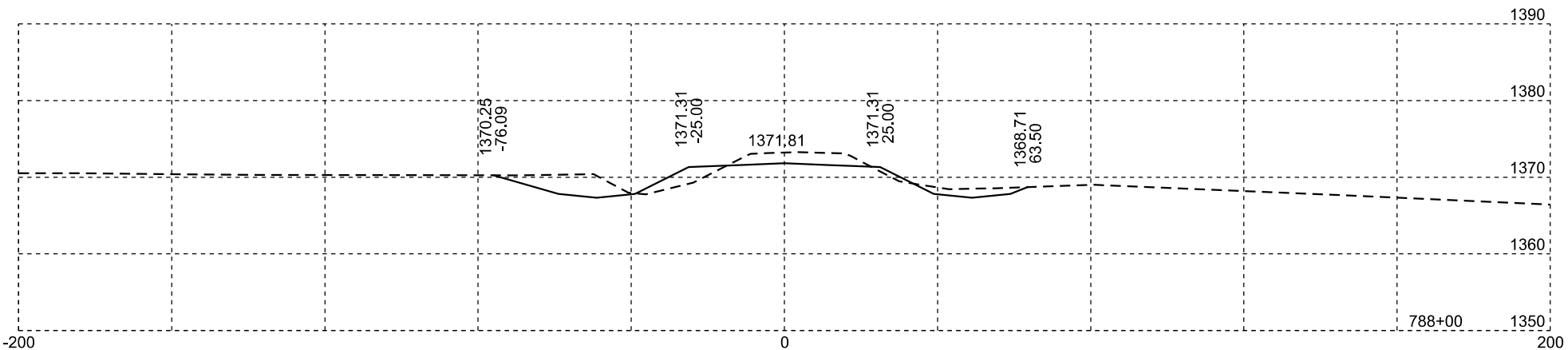
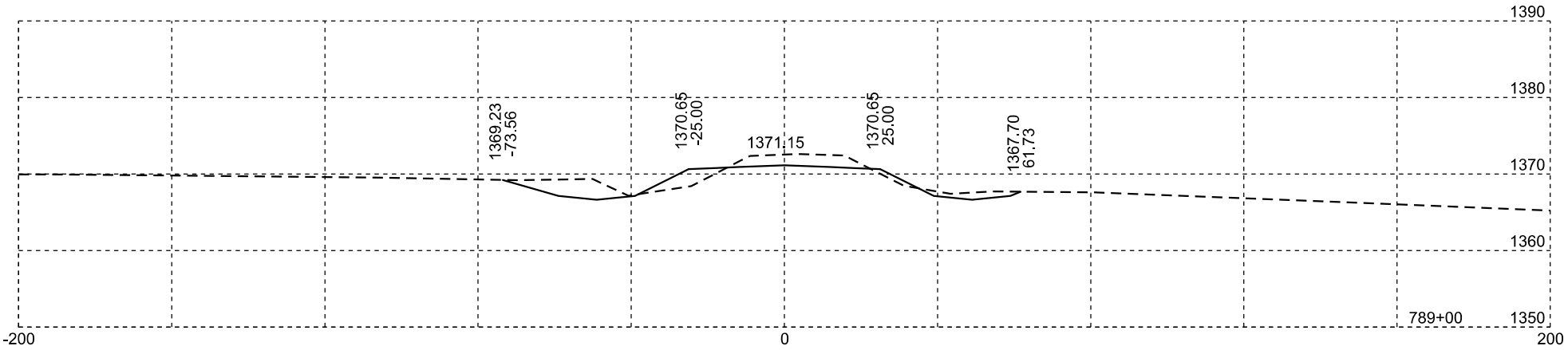
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X57	X99

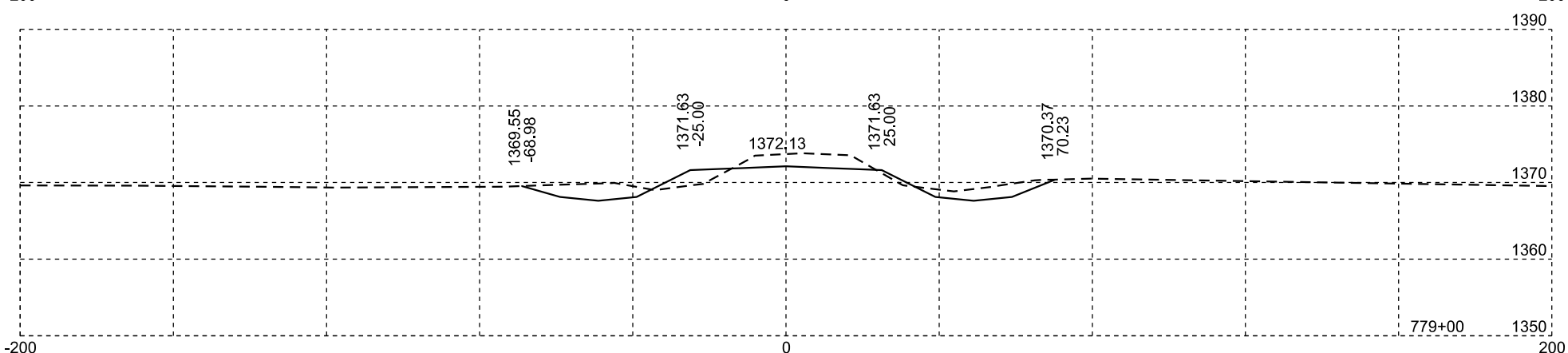
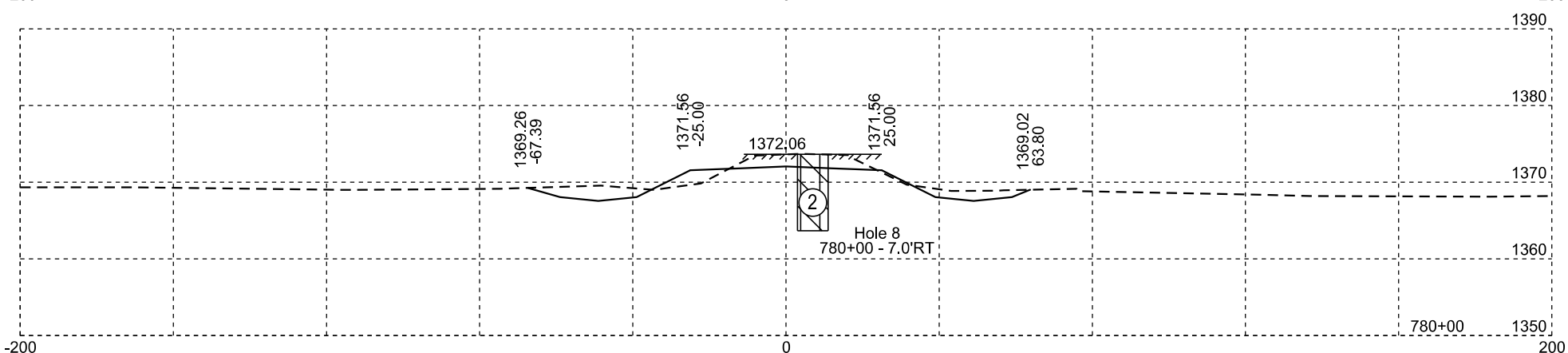
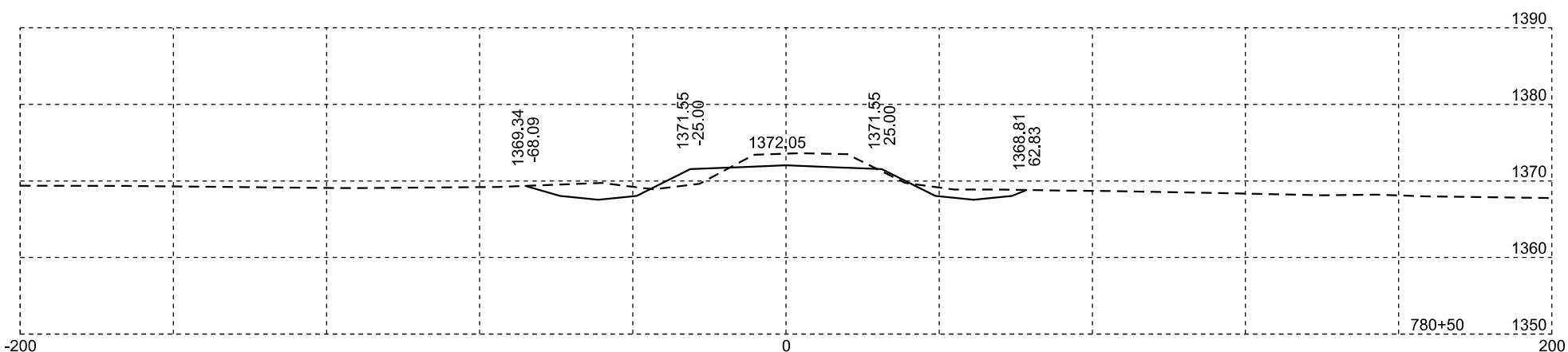
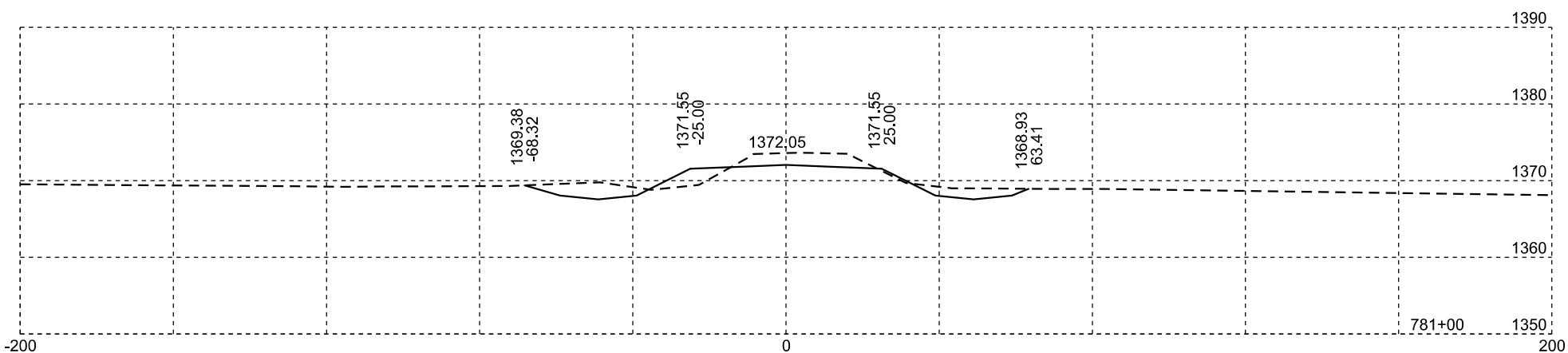
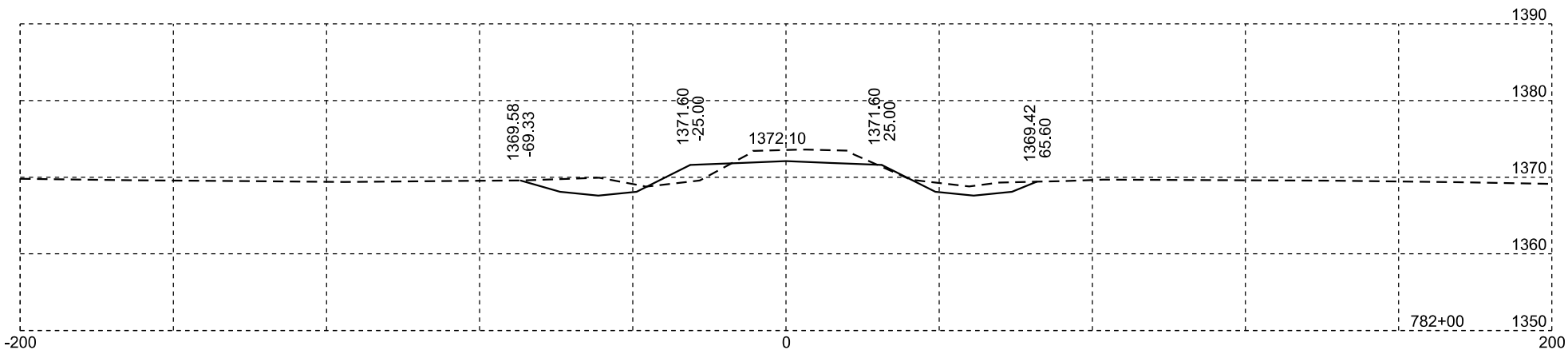
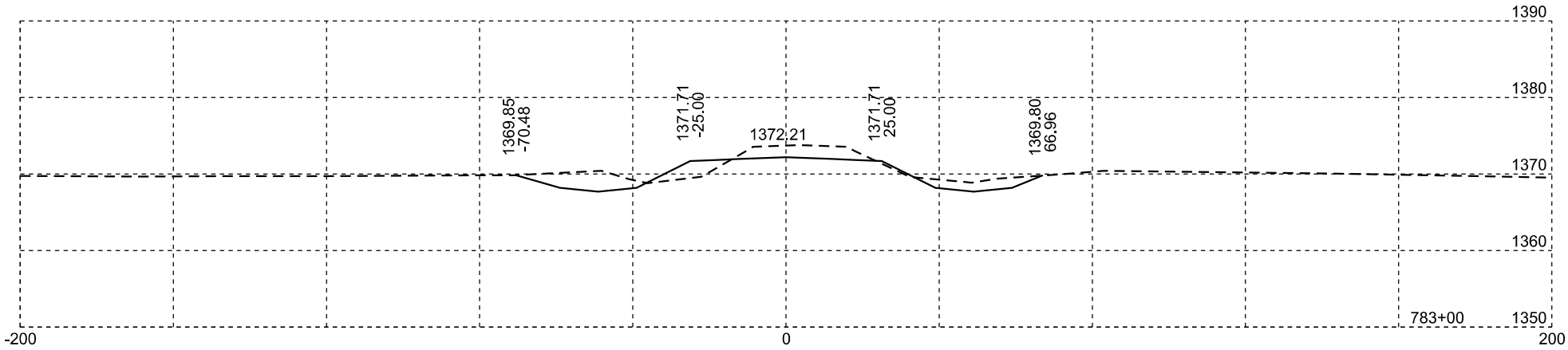




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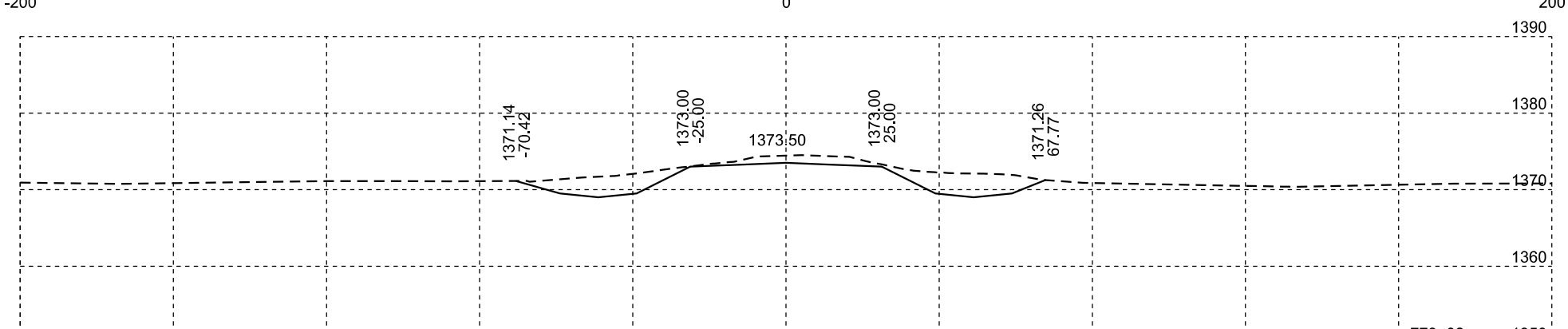
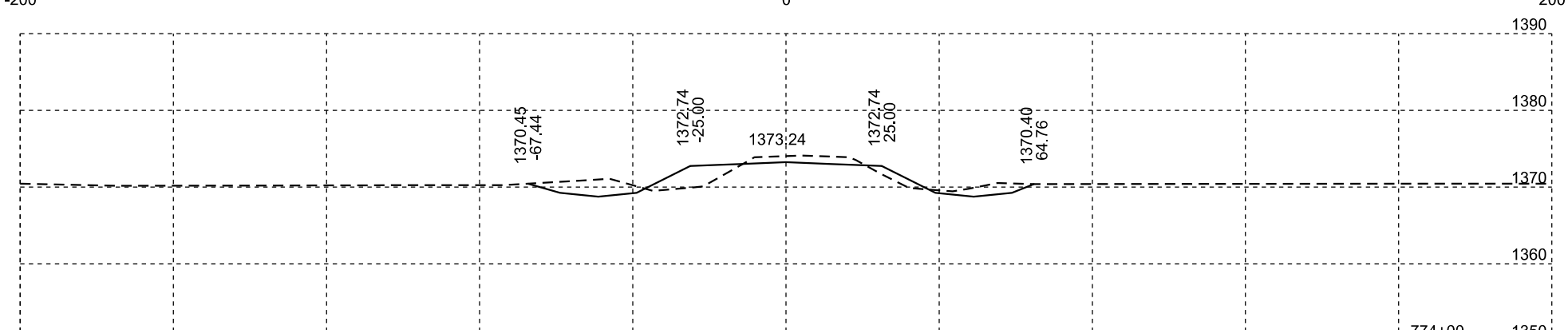
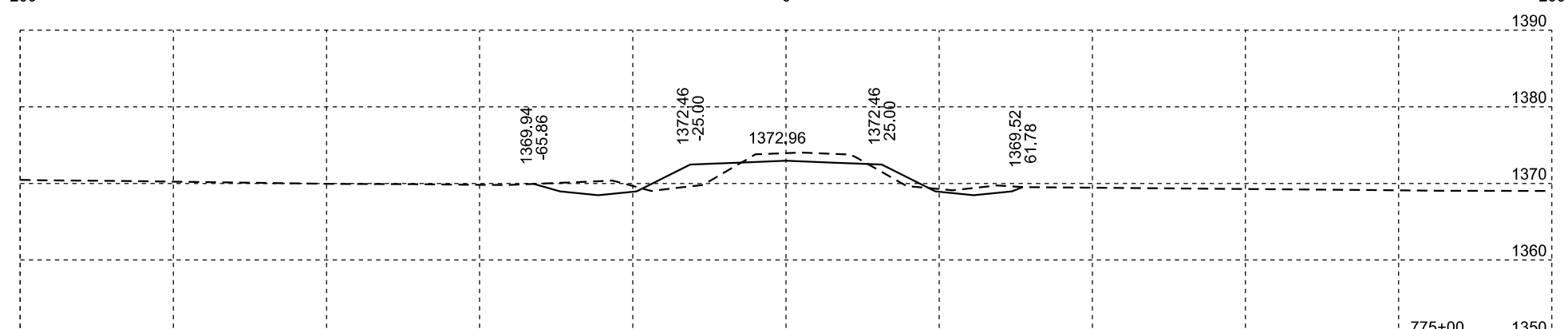
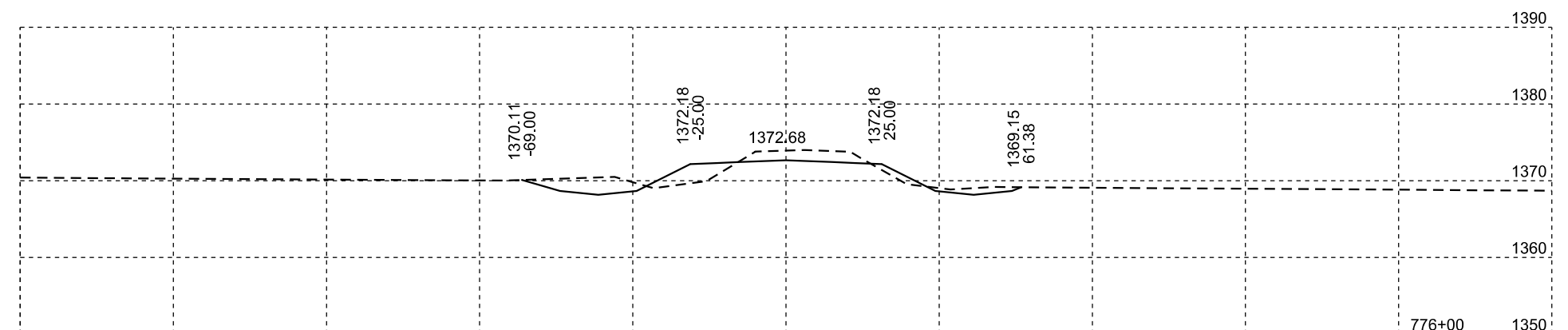
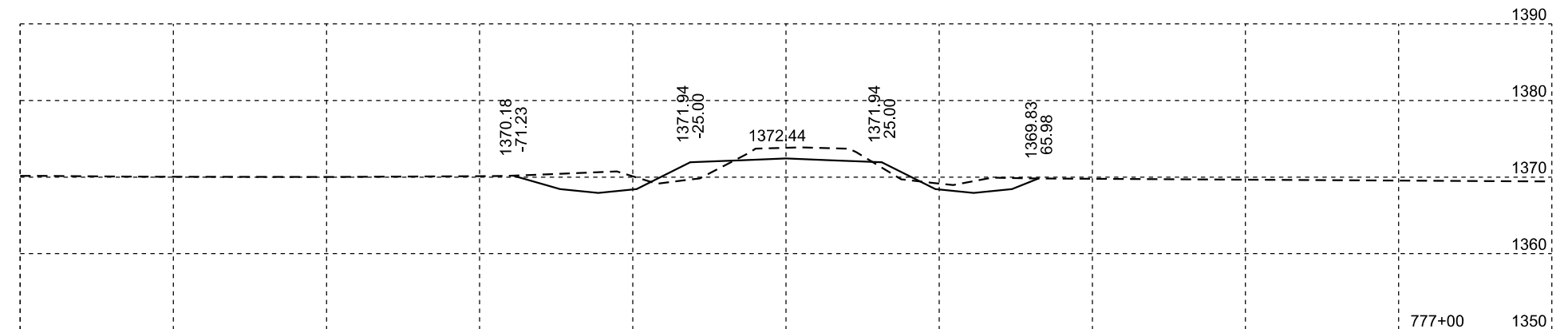
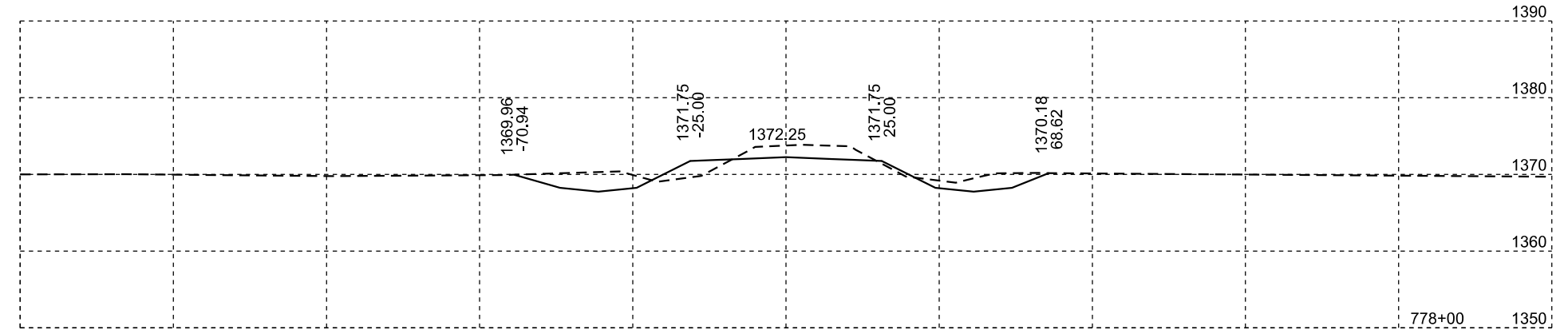
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X59	X99

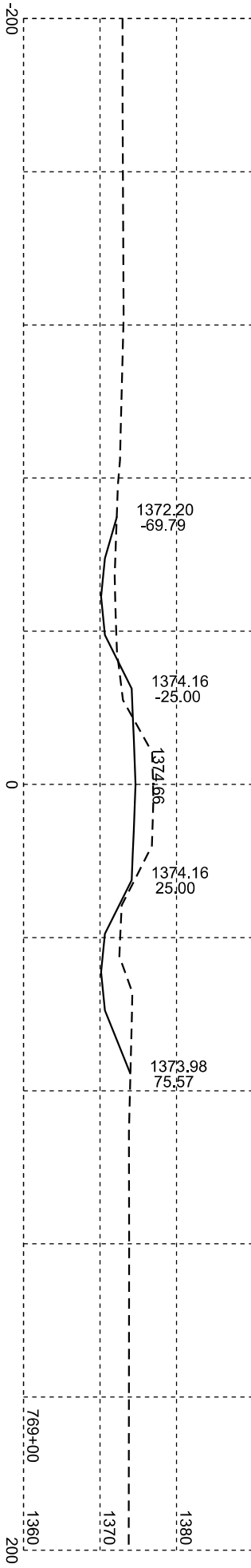
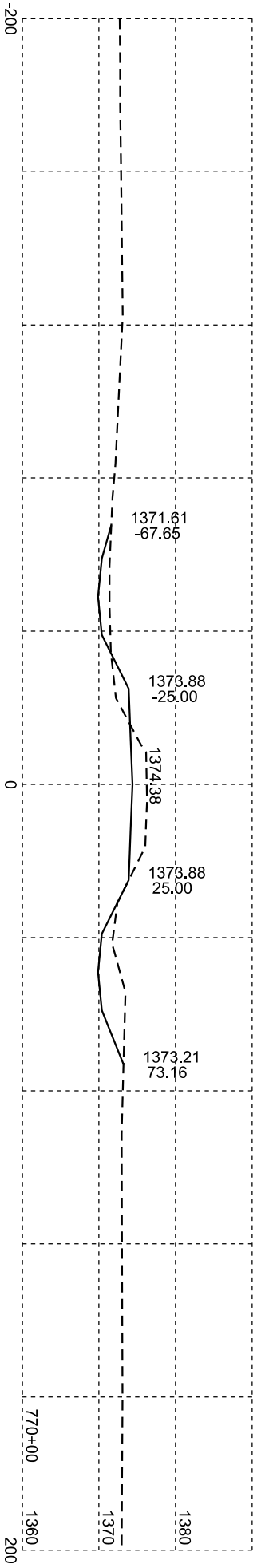
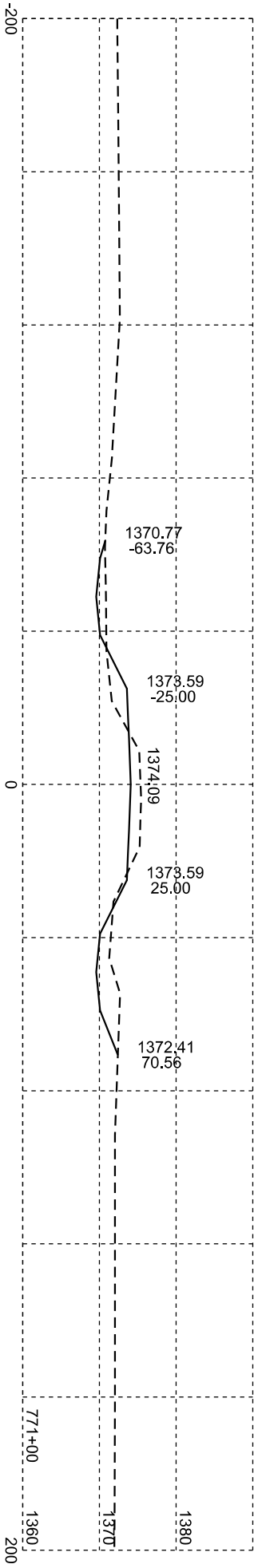
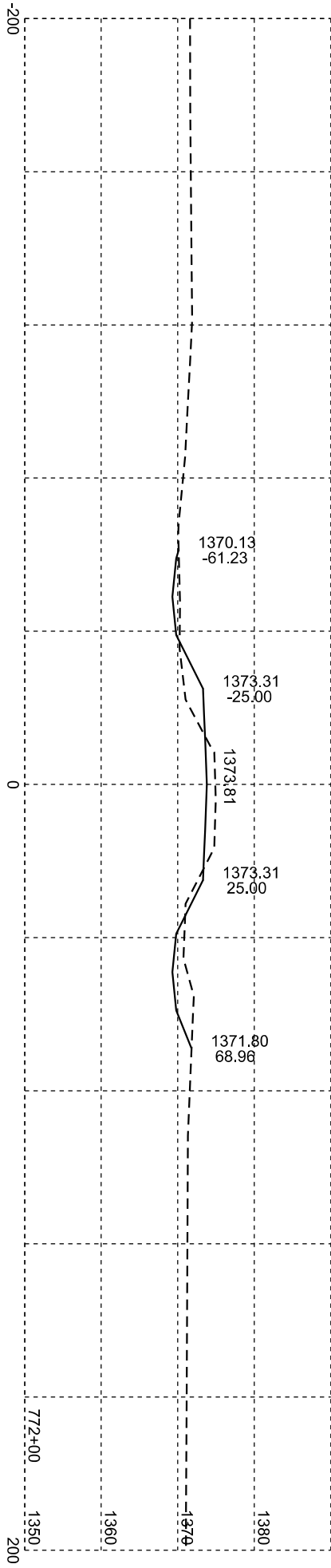
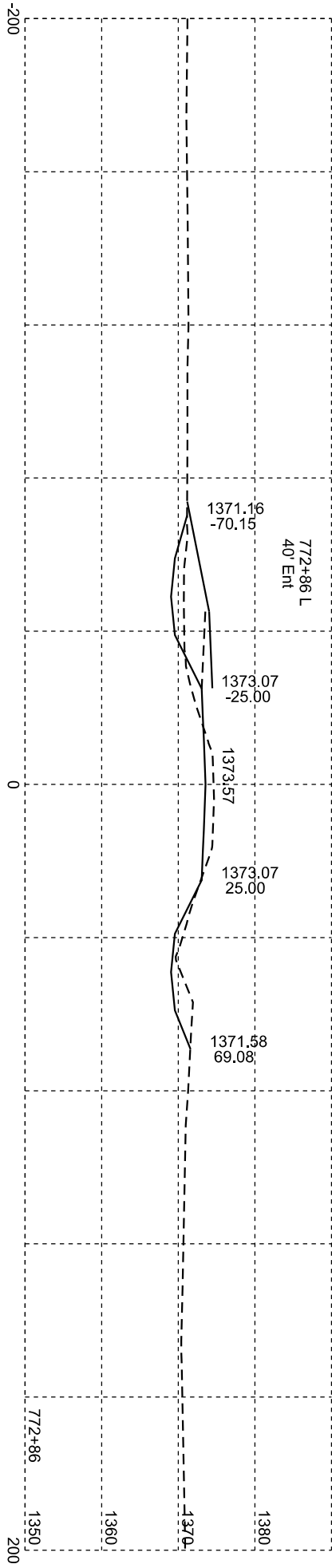
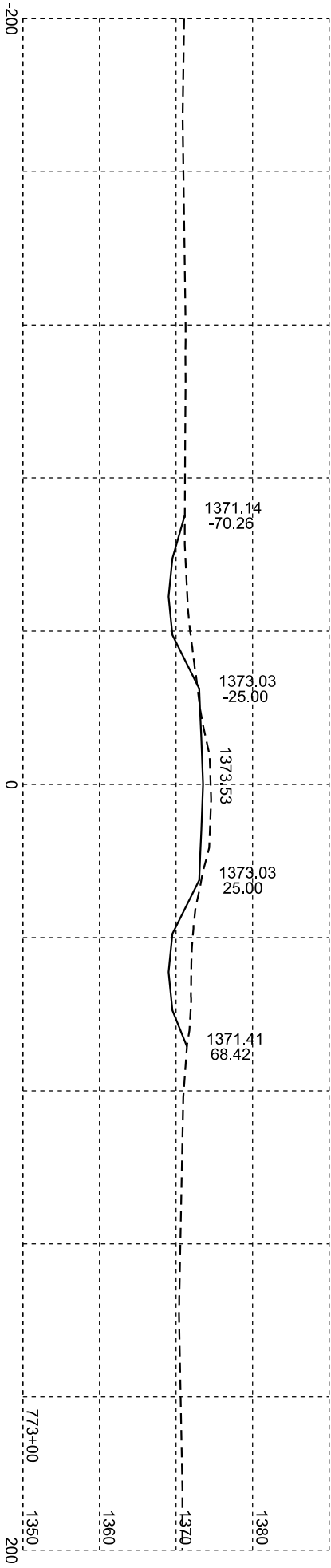
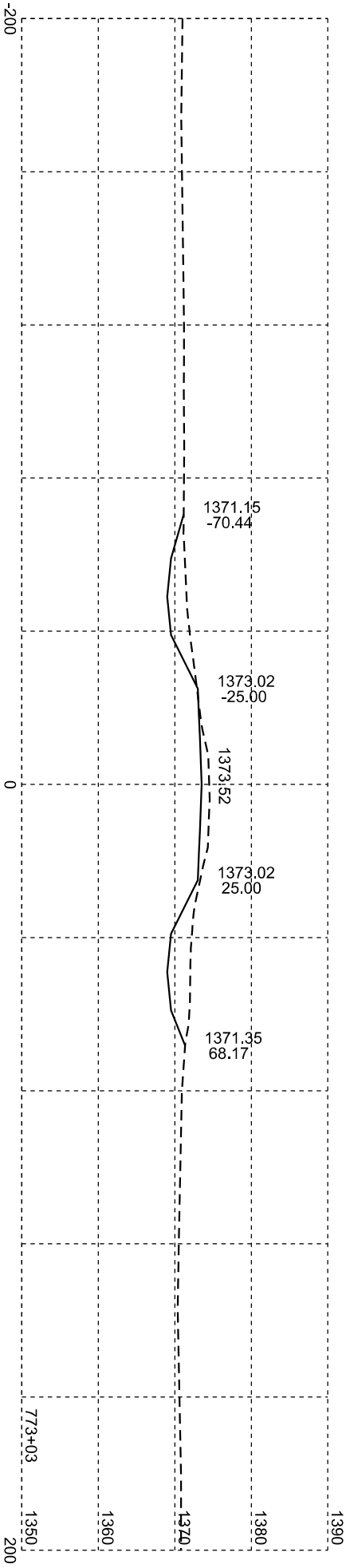




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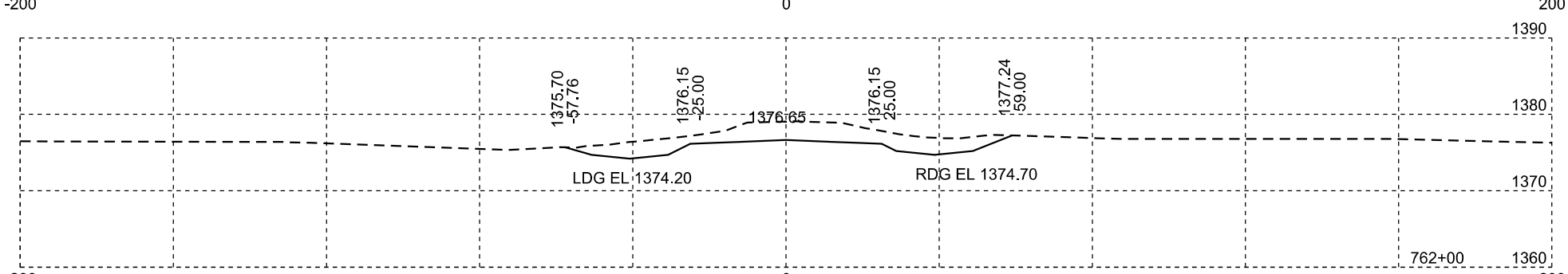
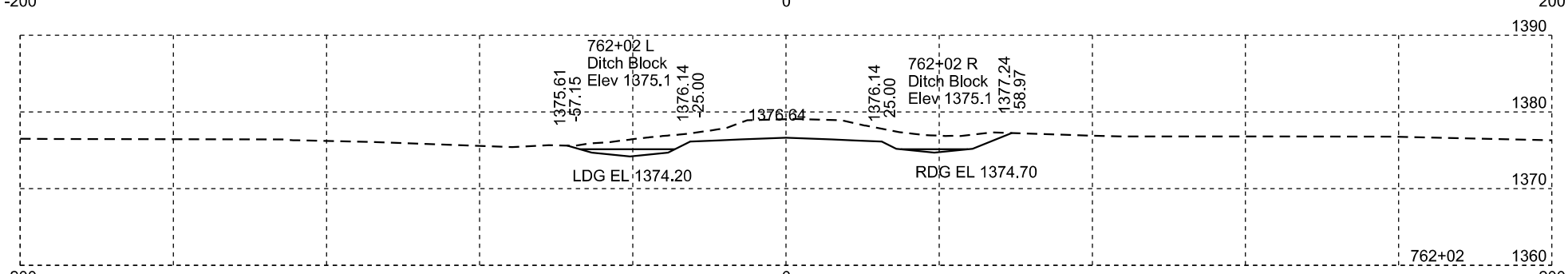
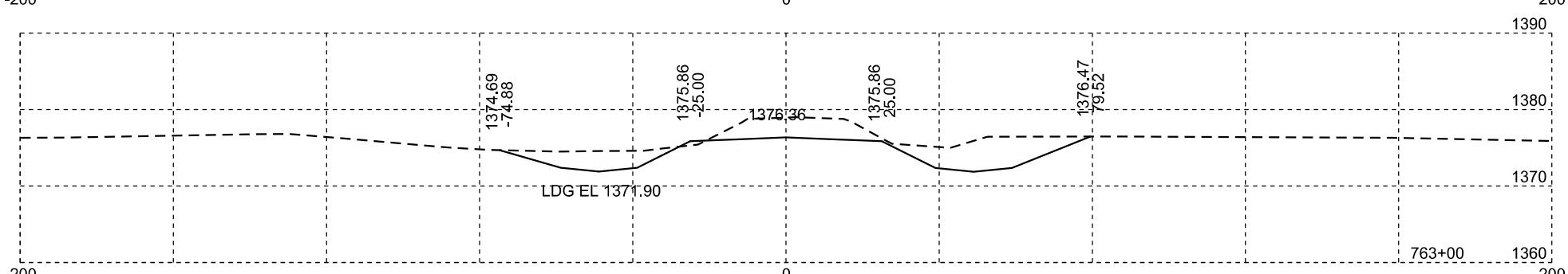
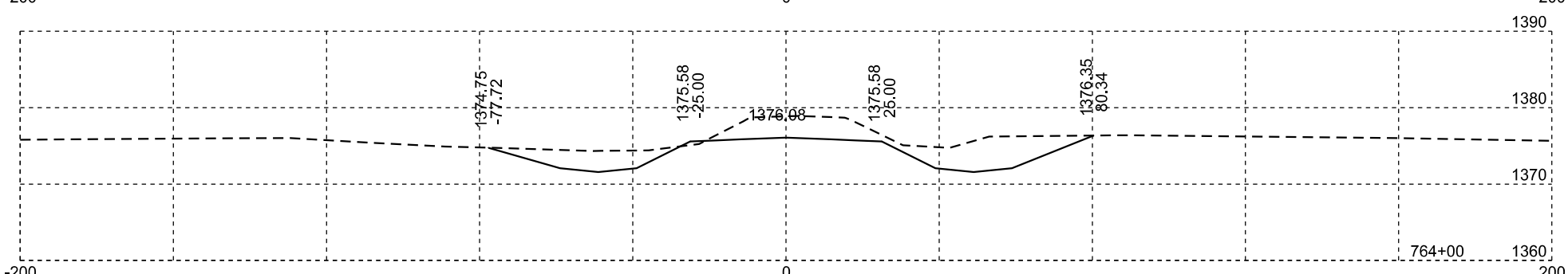
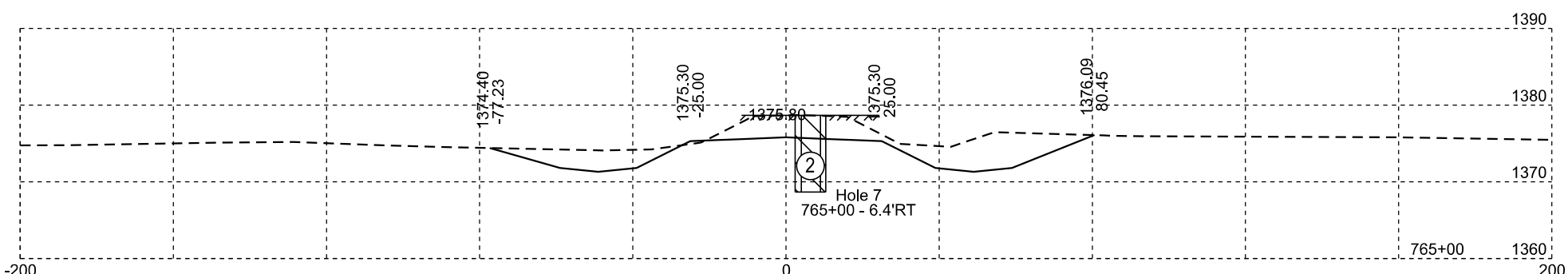
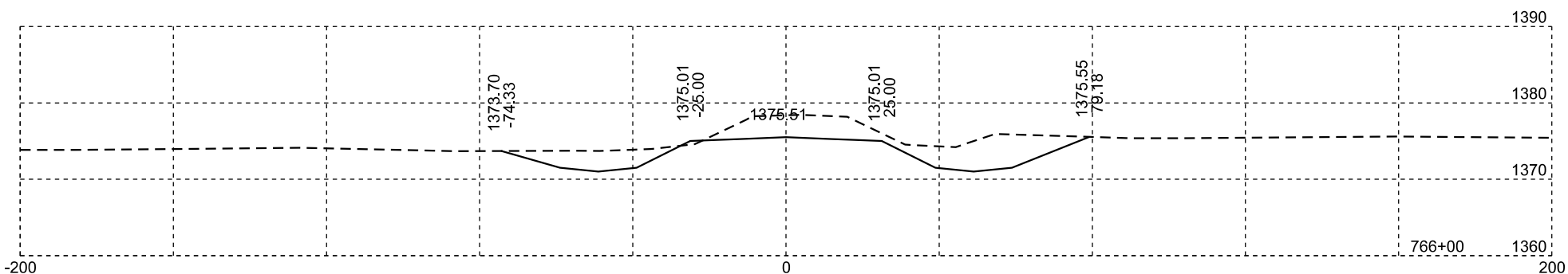
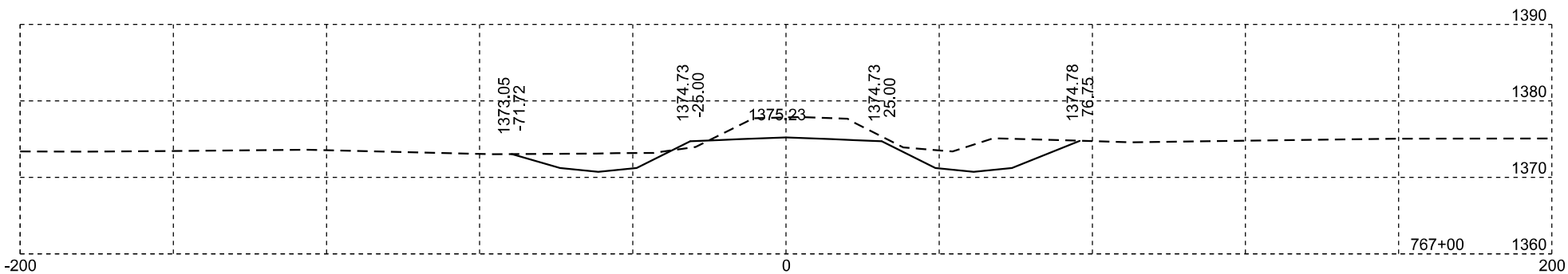
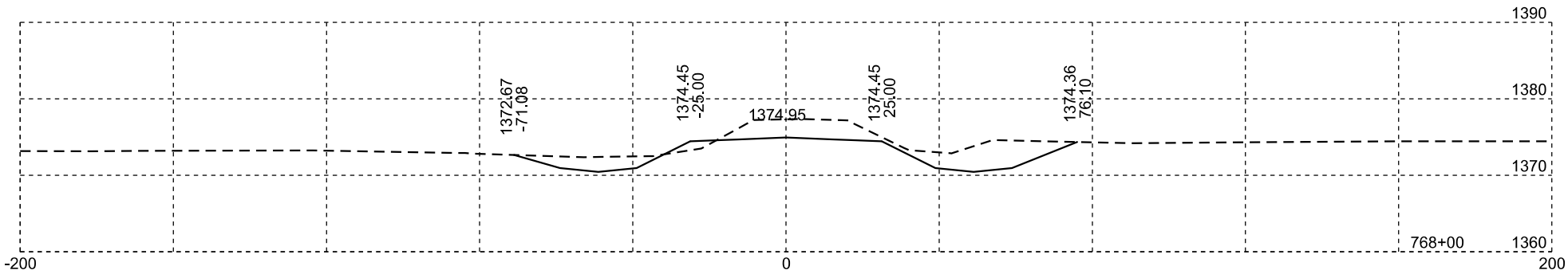
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X61	X99

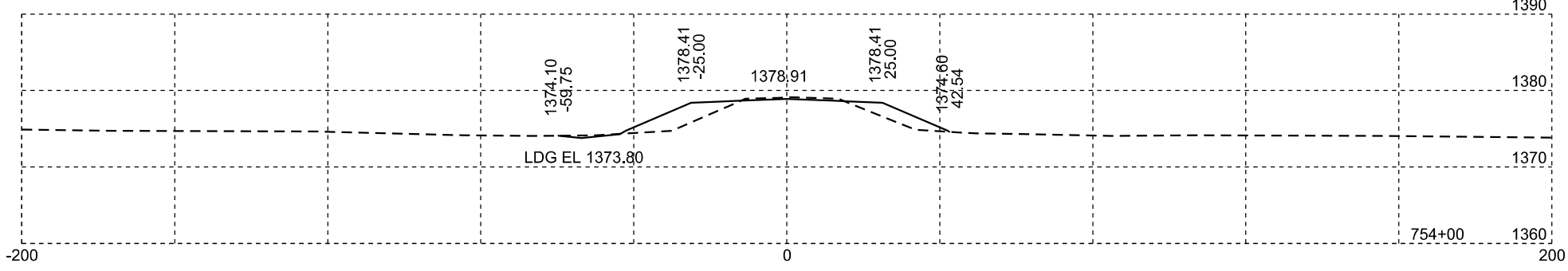
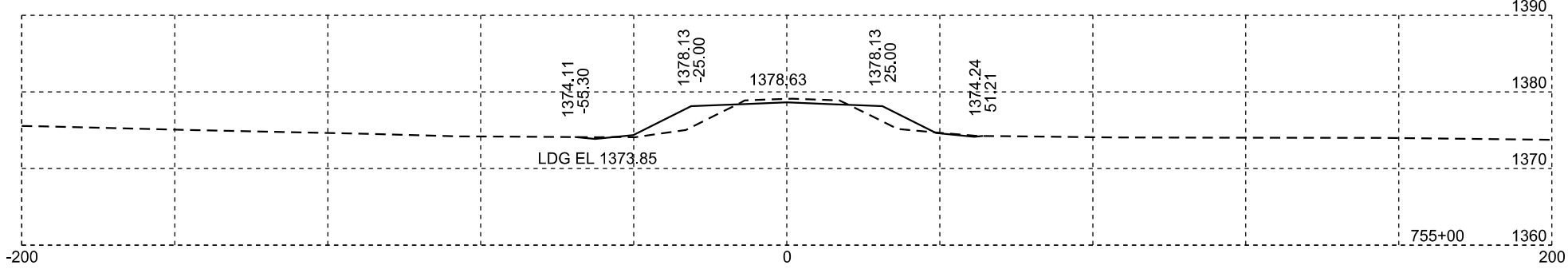
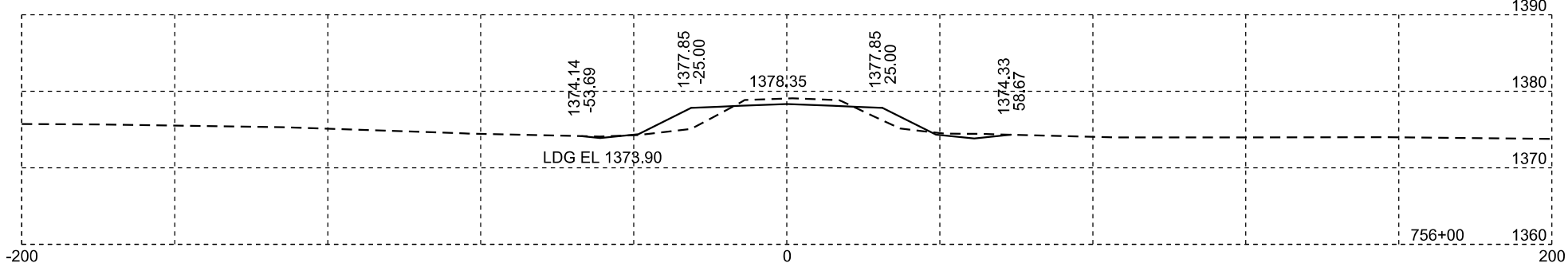
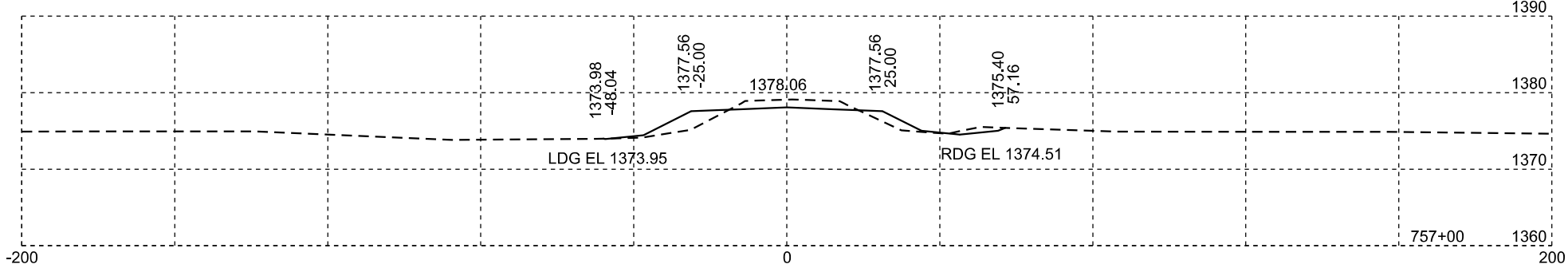
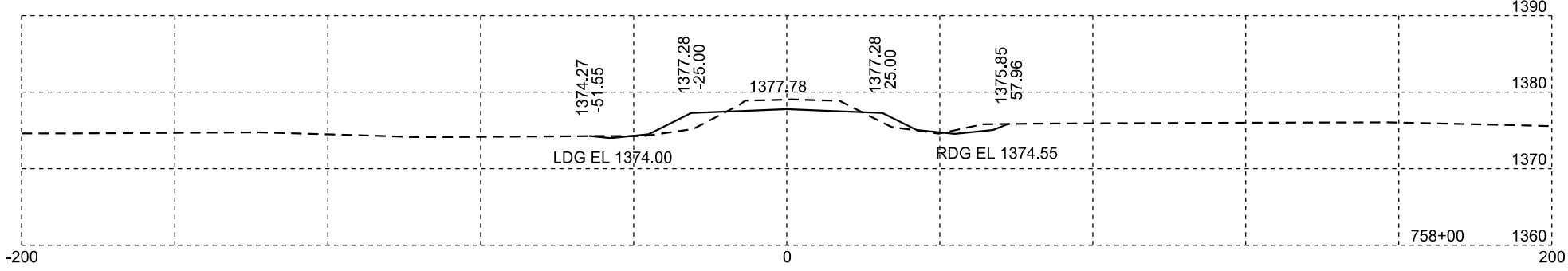
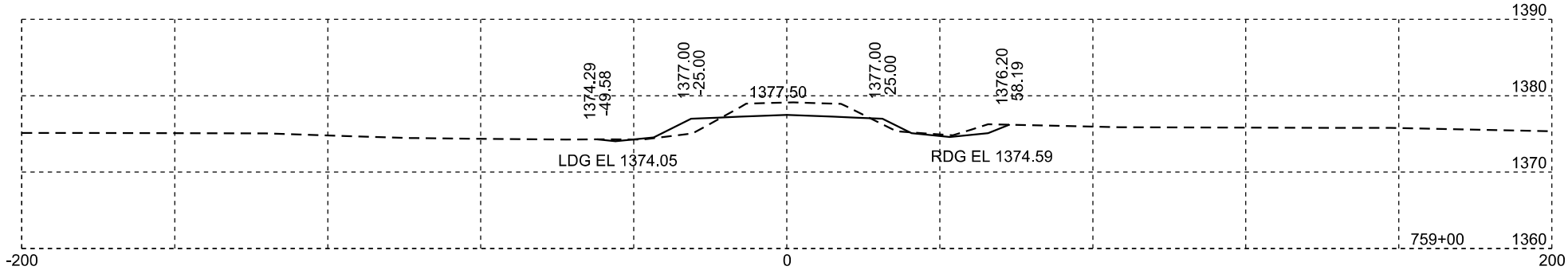
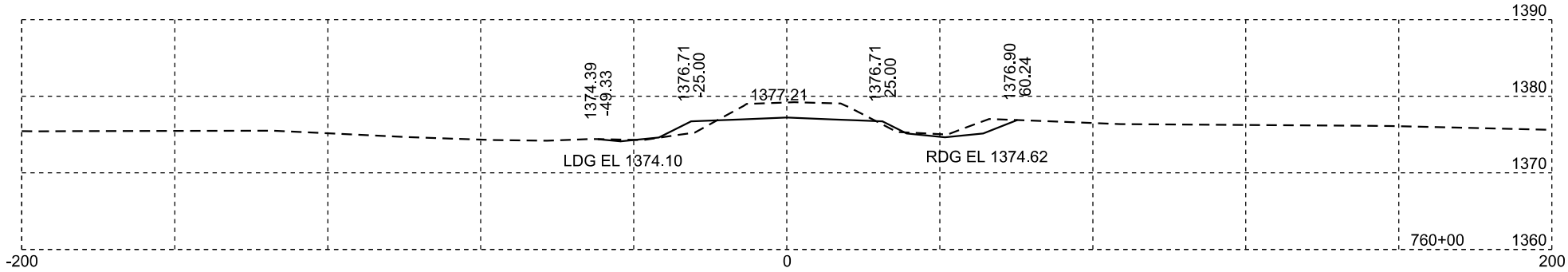
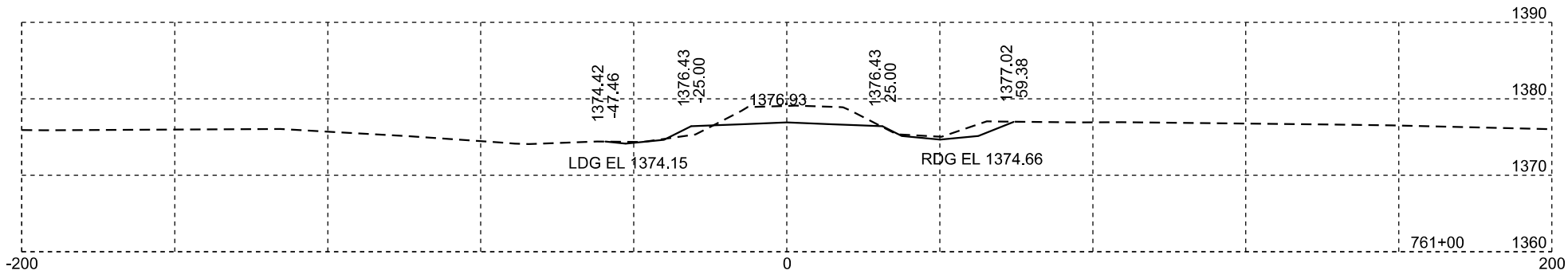


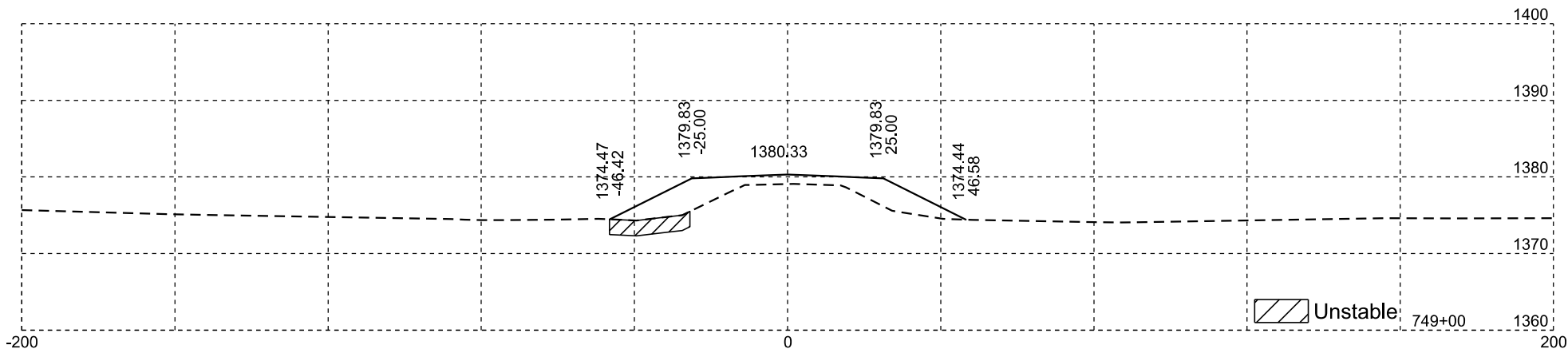
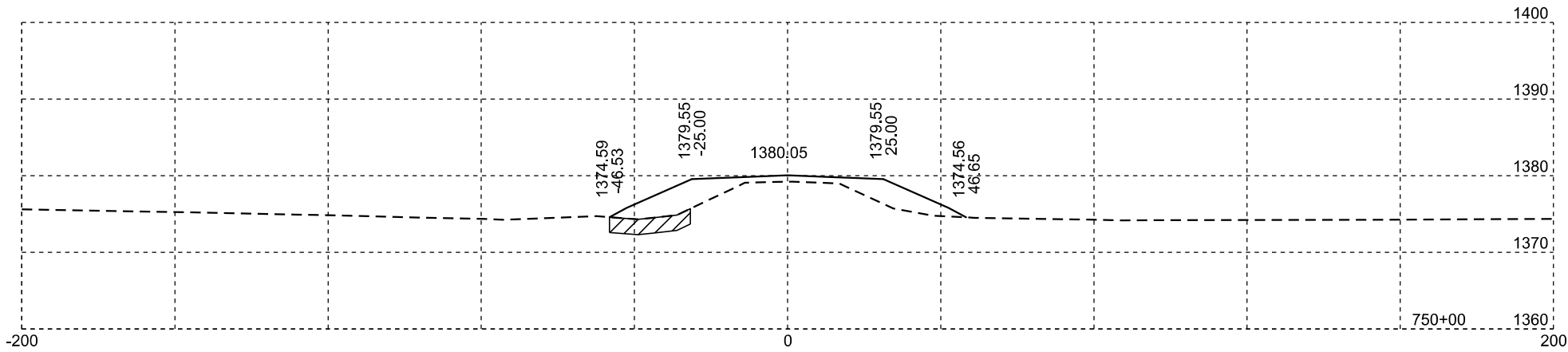
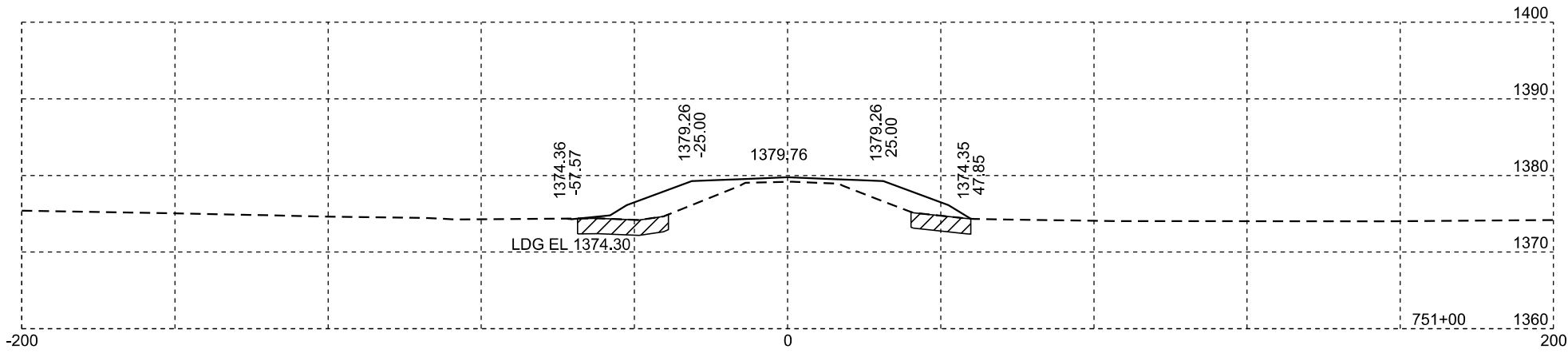
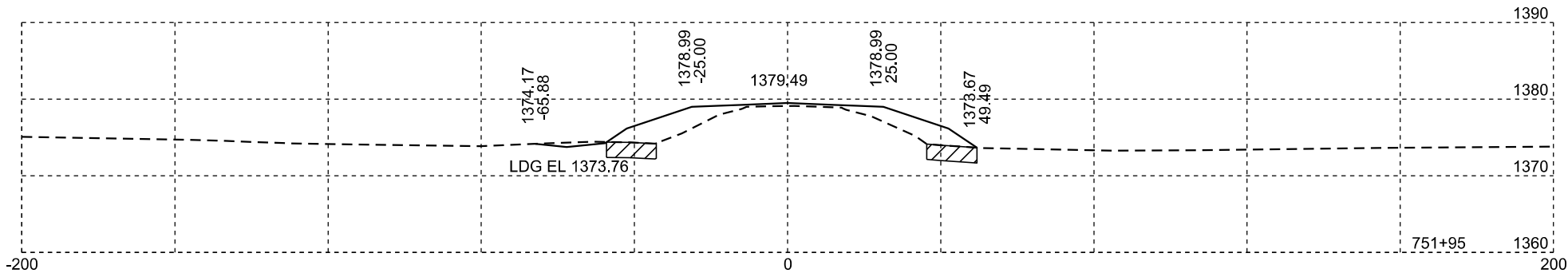
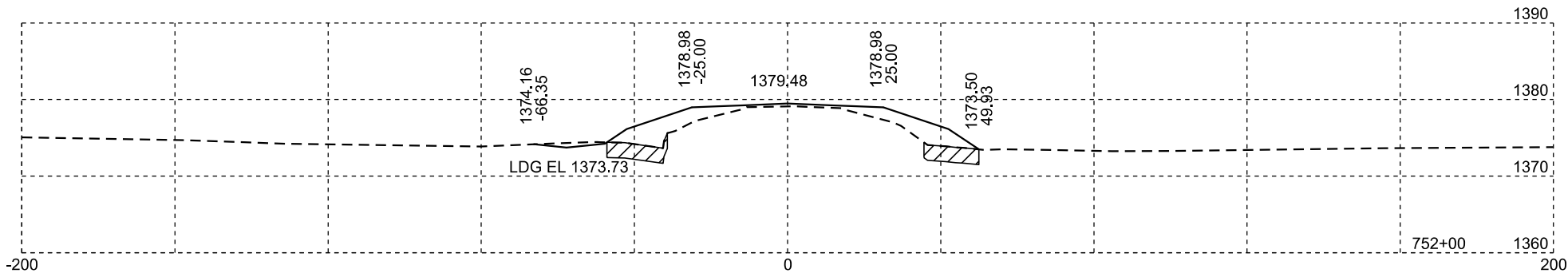
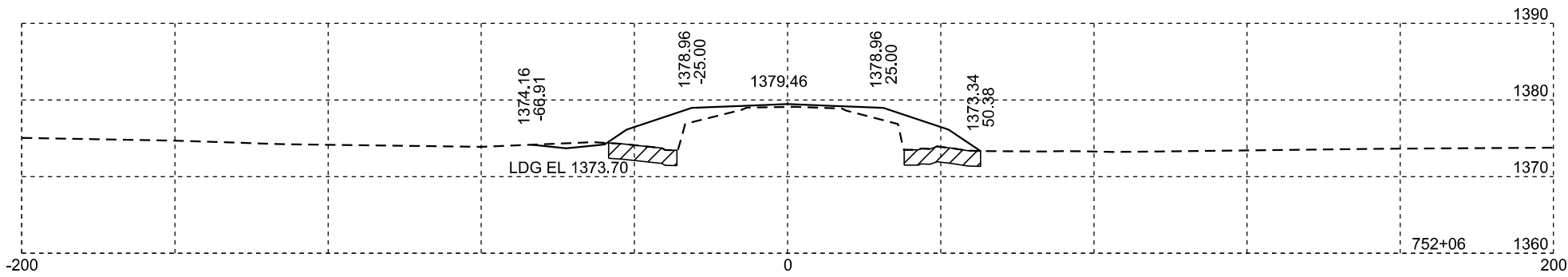
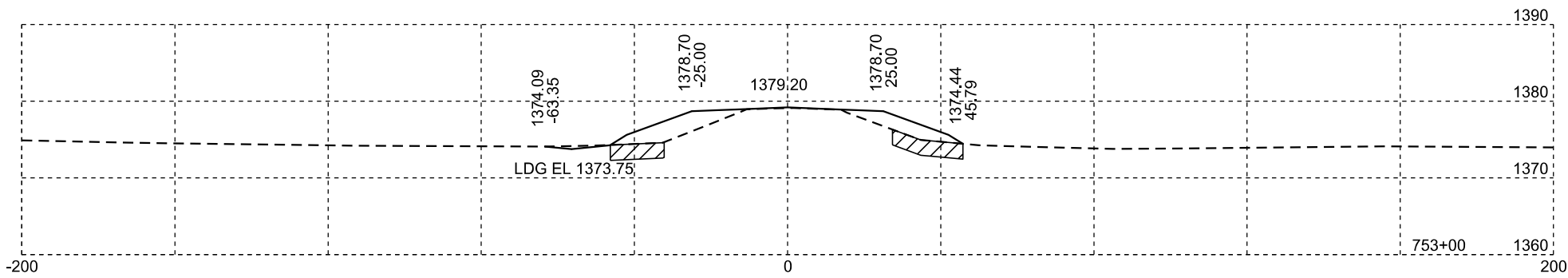


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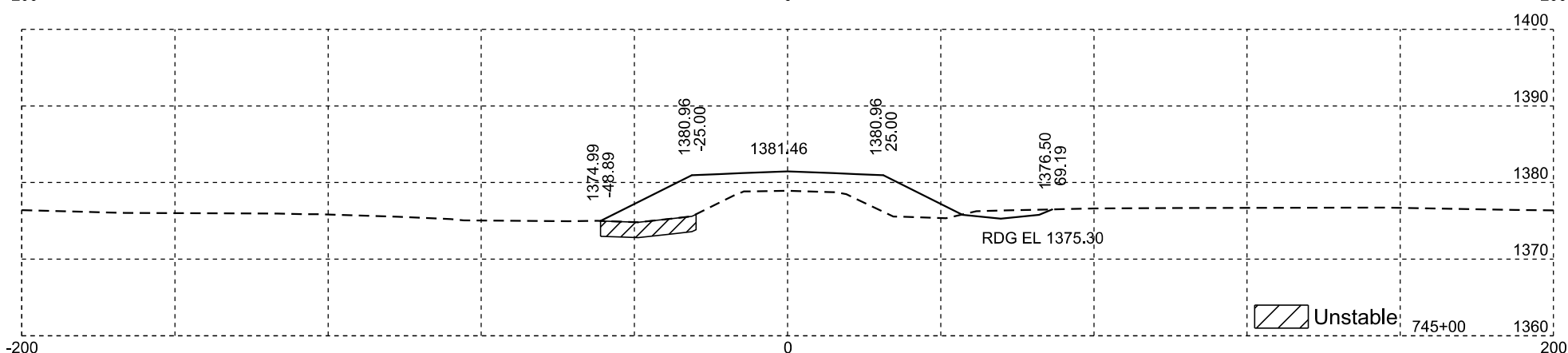
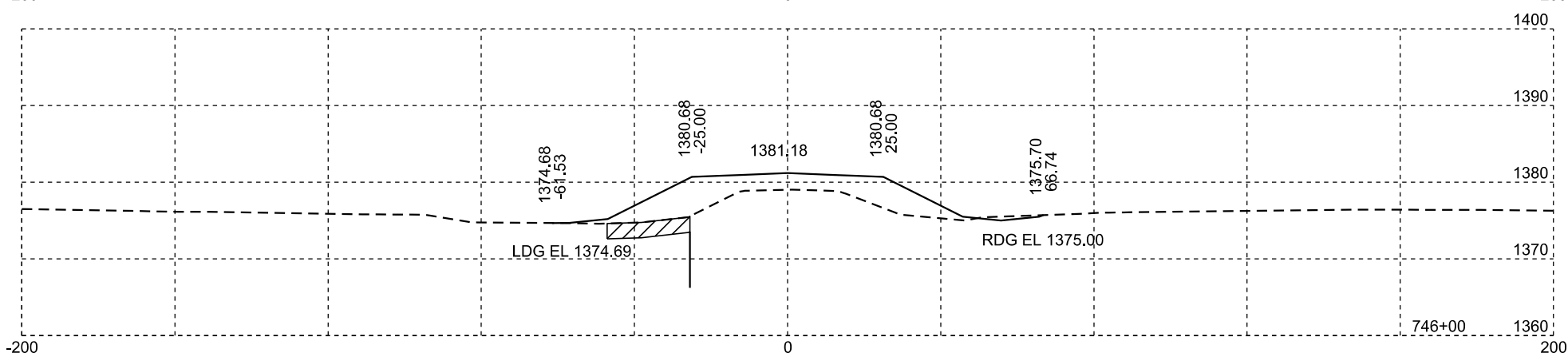
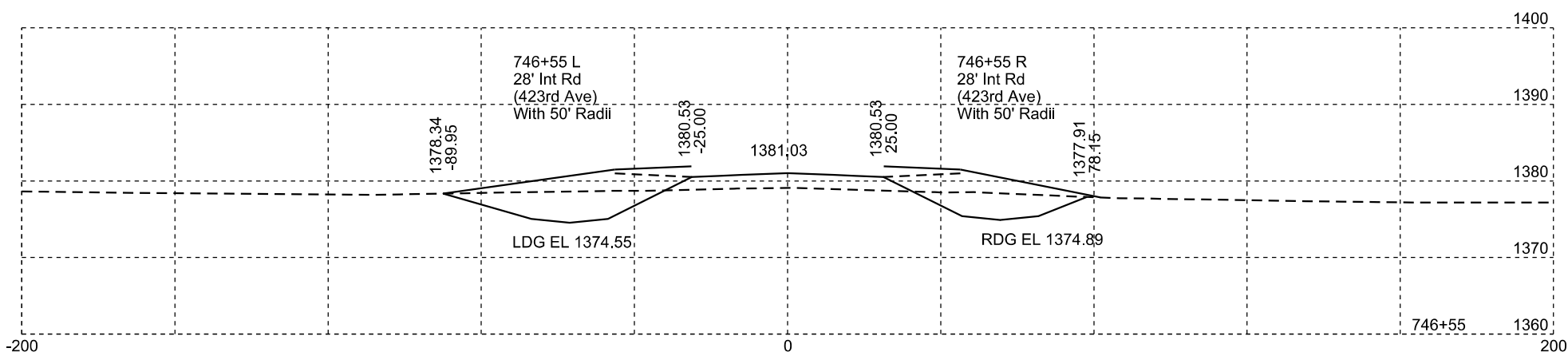
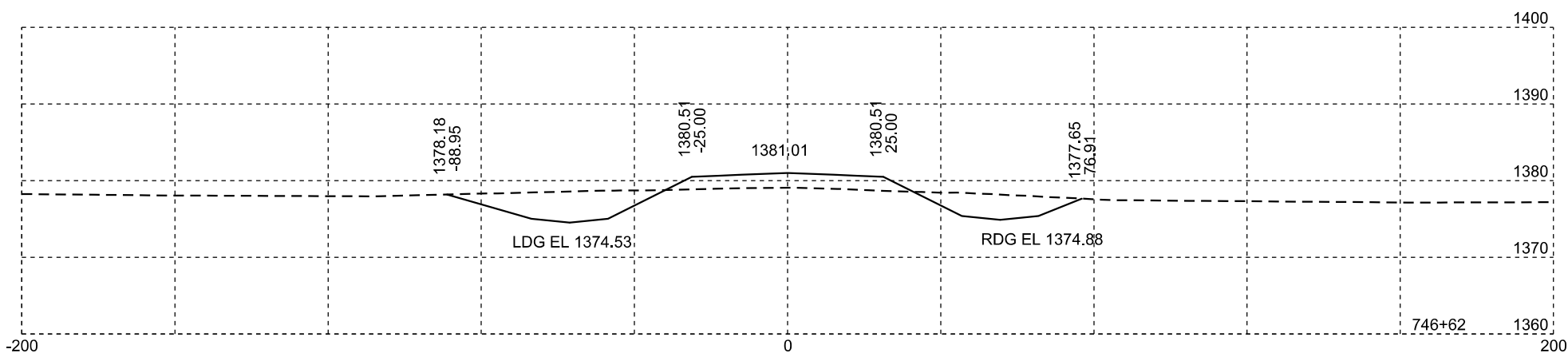
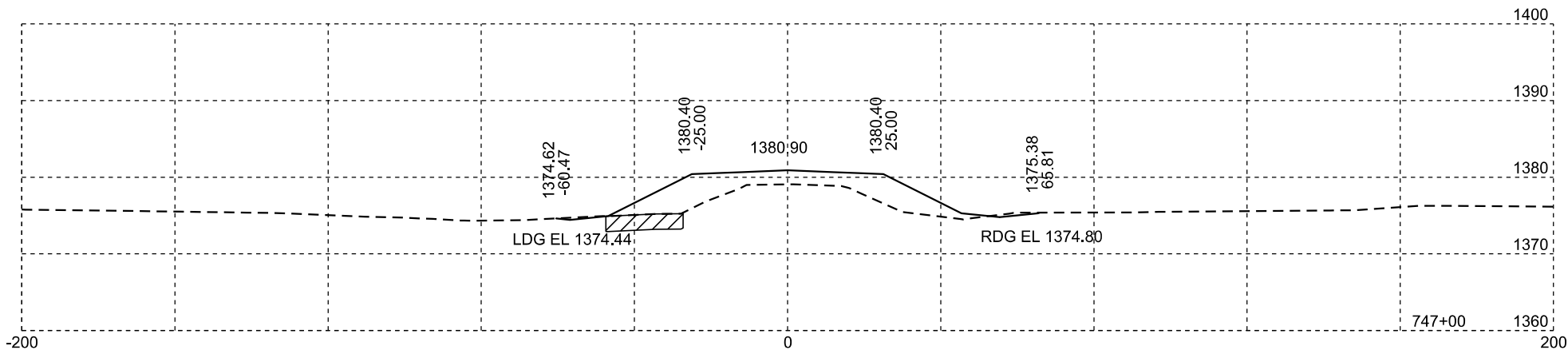
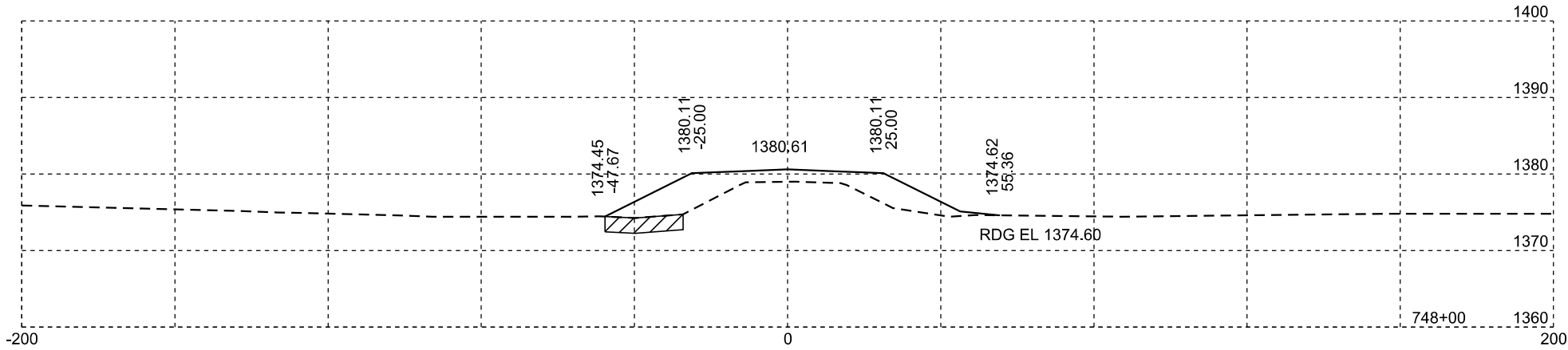
STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X63	X99

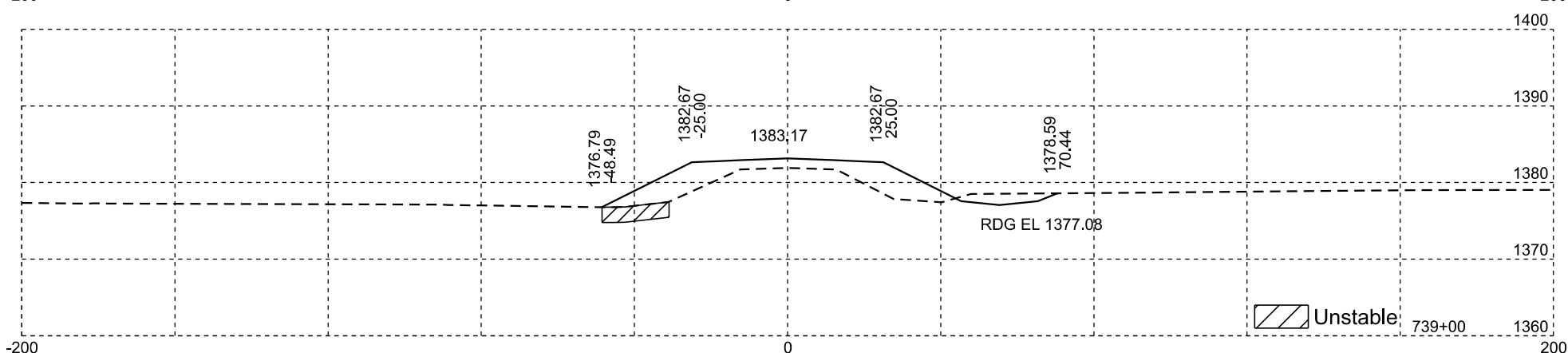
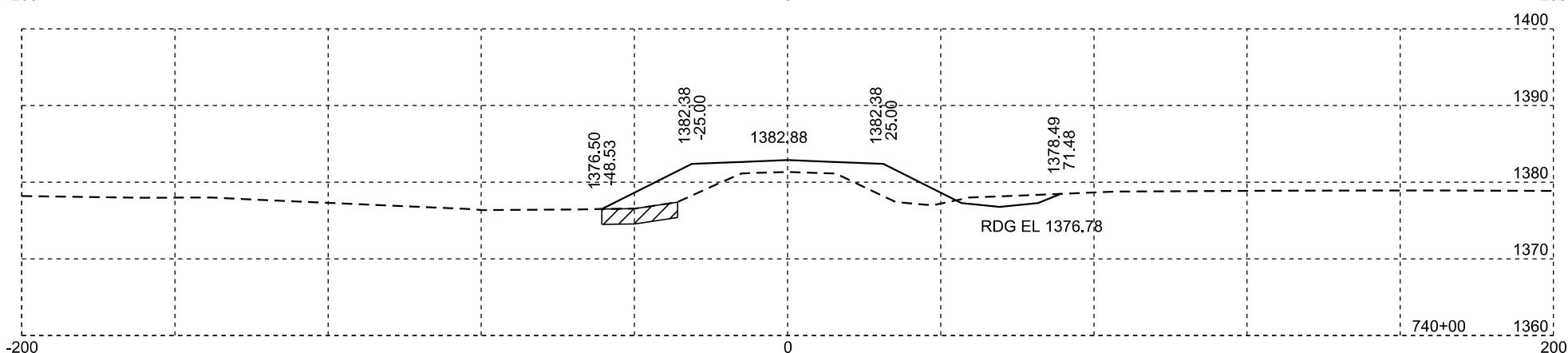
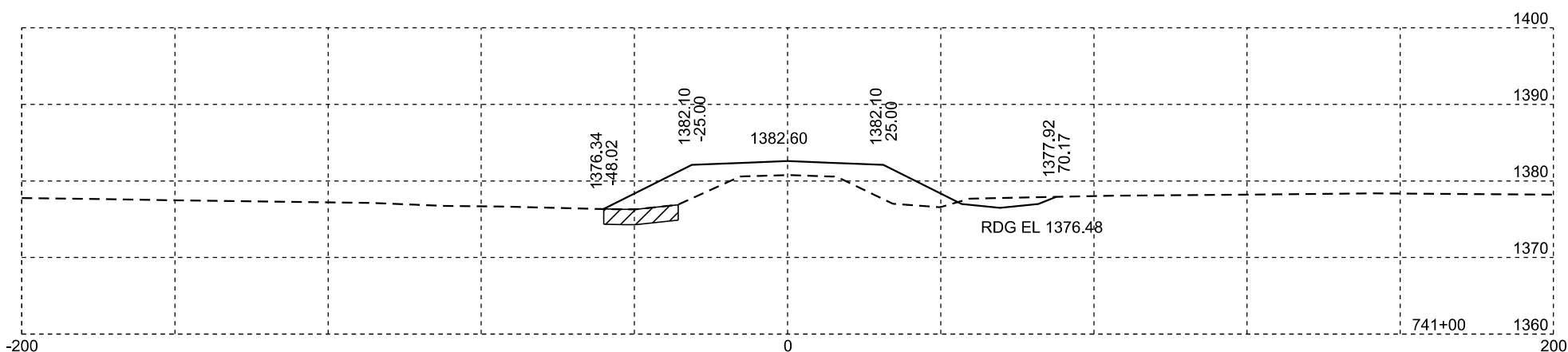
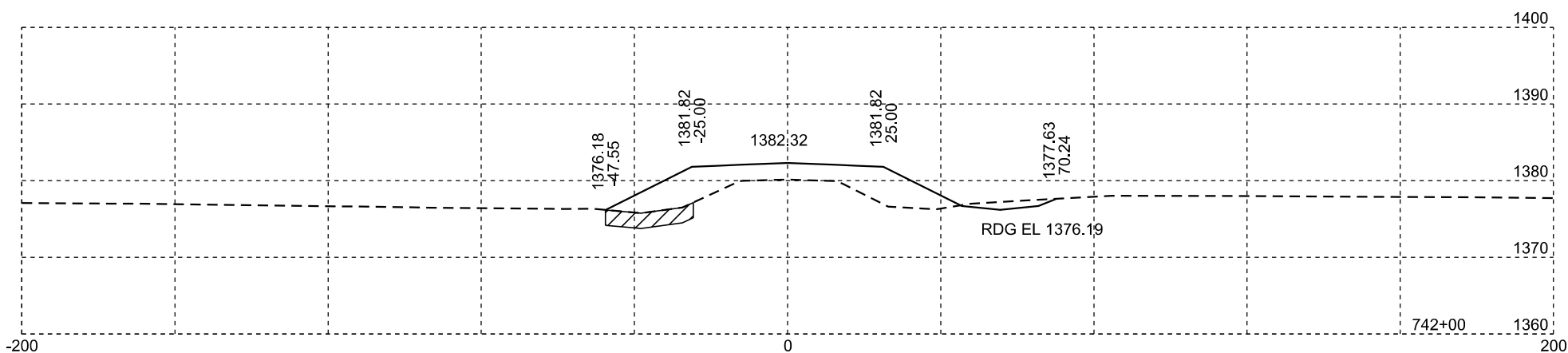
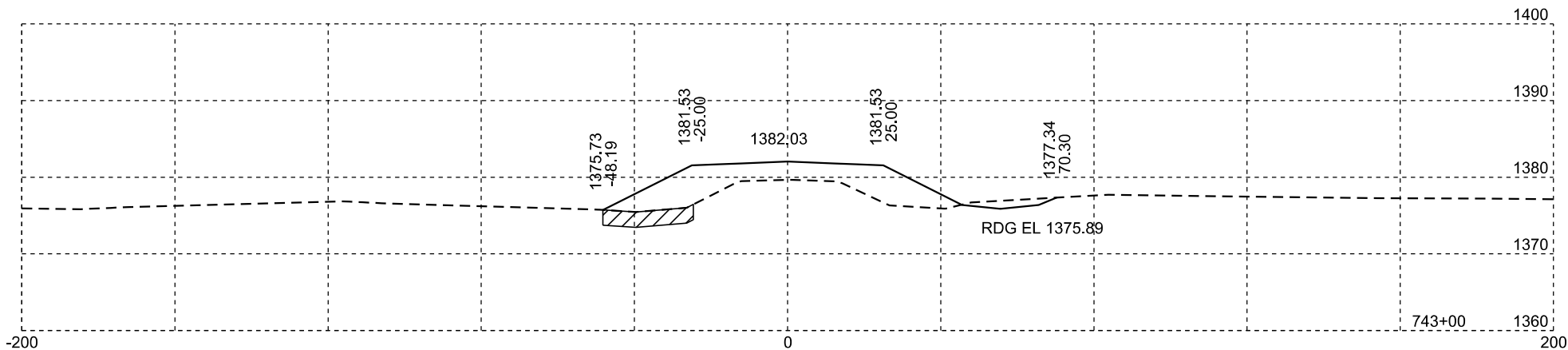
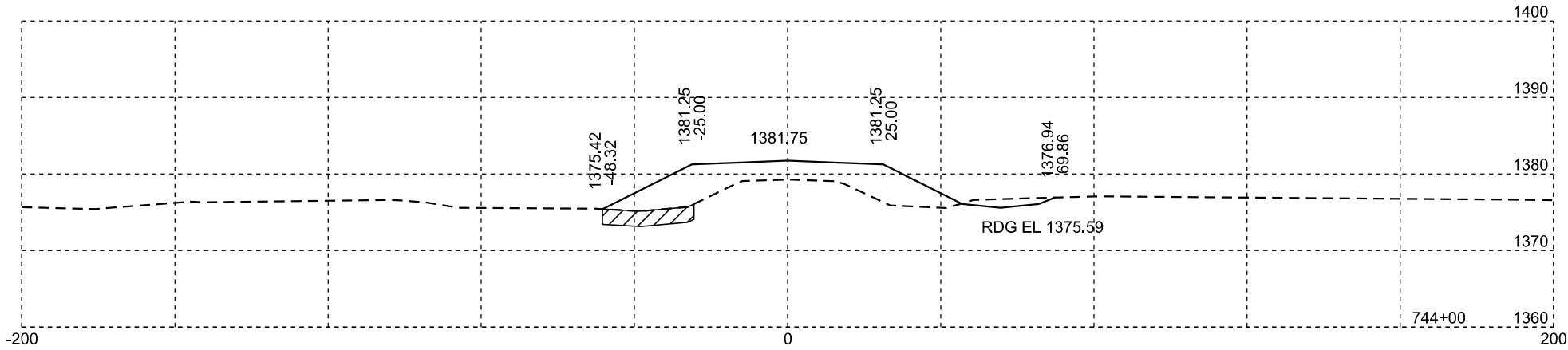






Unstable

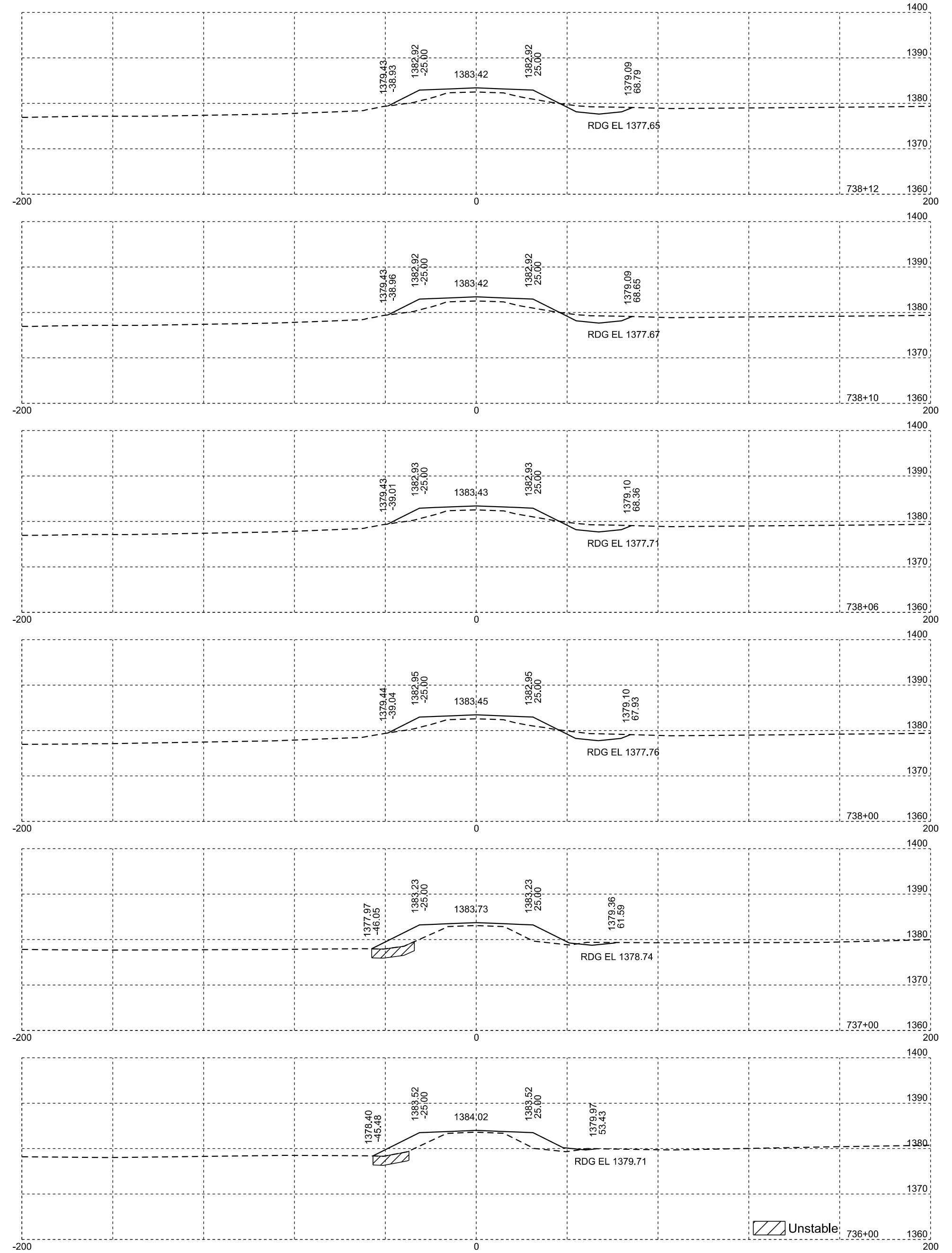




Unstable

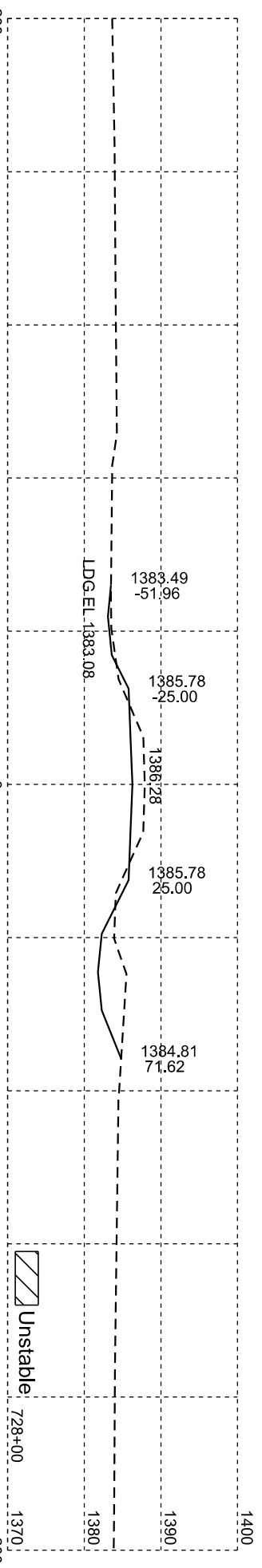
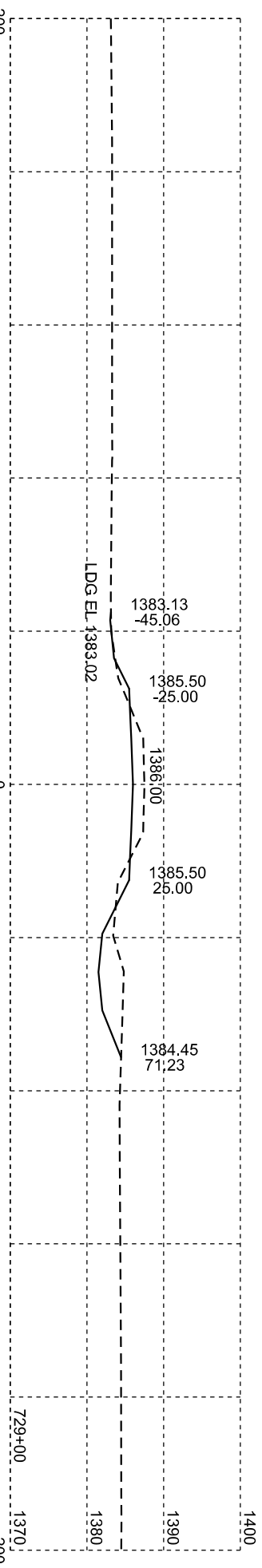
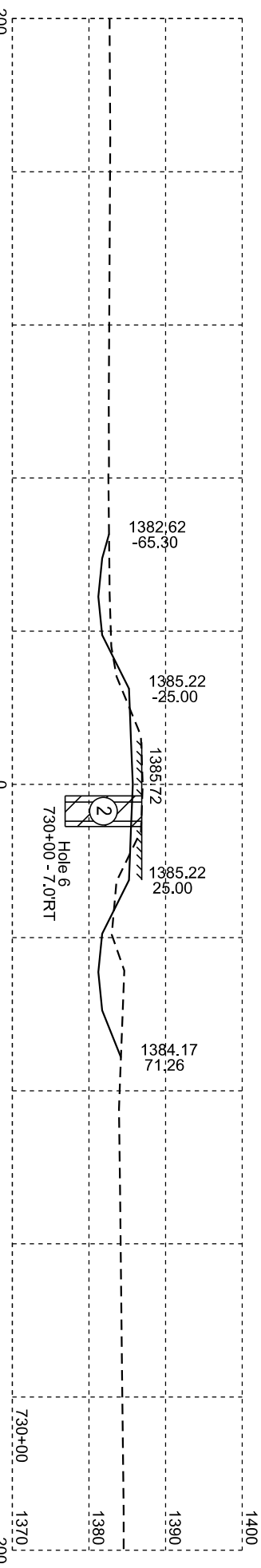
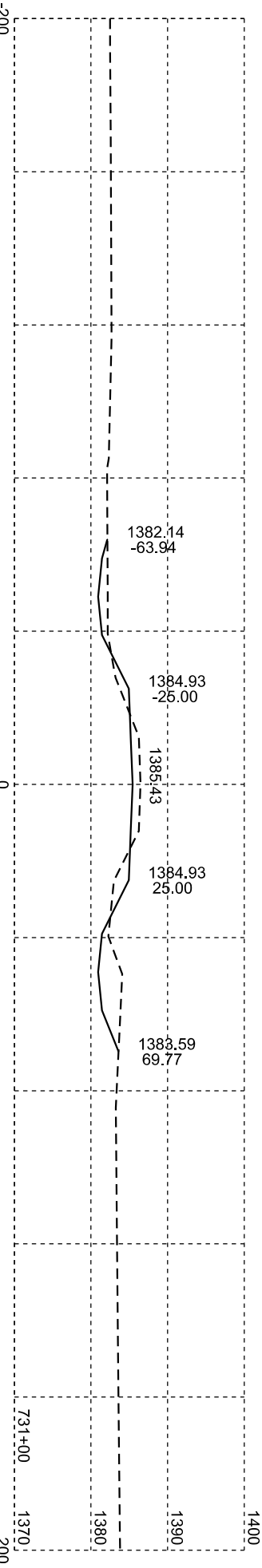
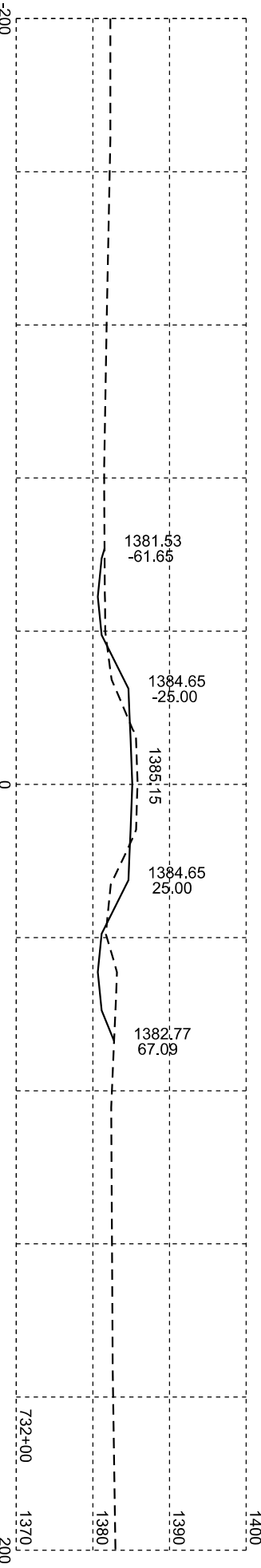
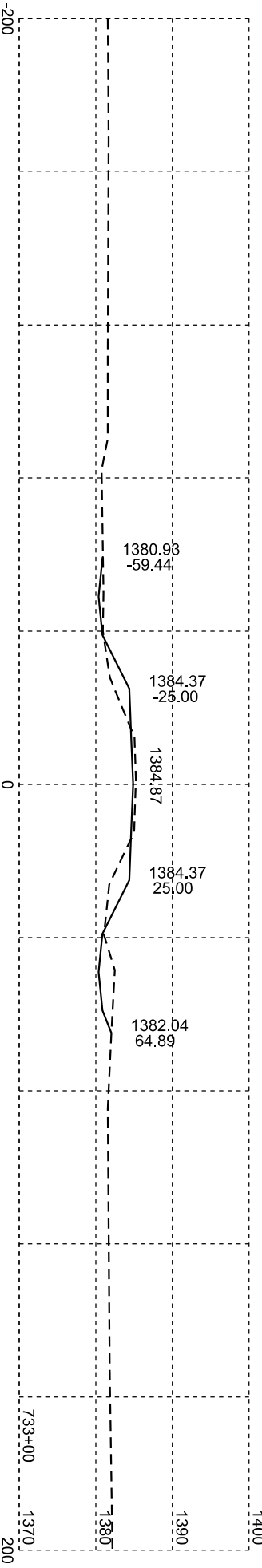
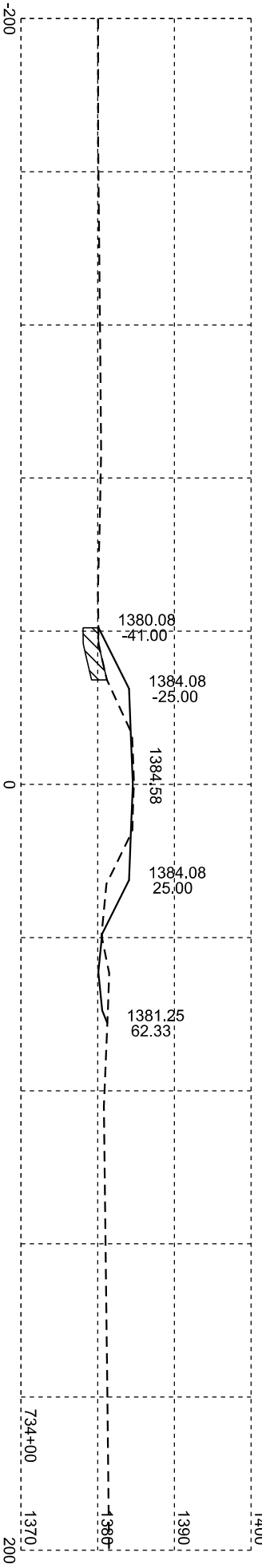
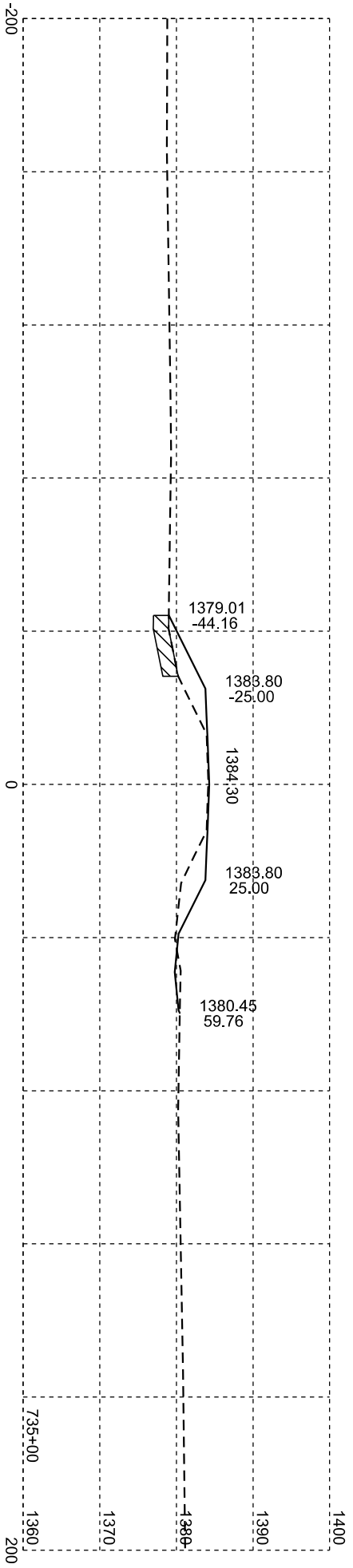
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STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X68	X99



Plotting Date: 01/20/2026

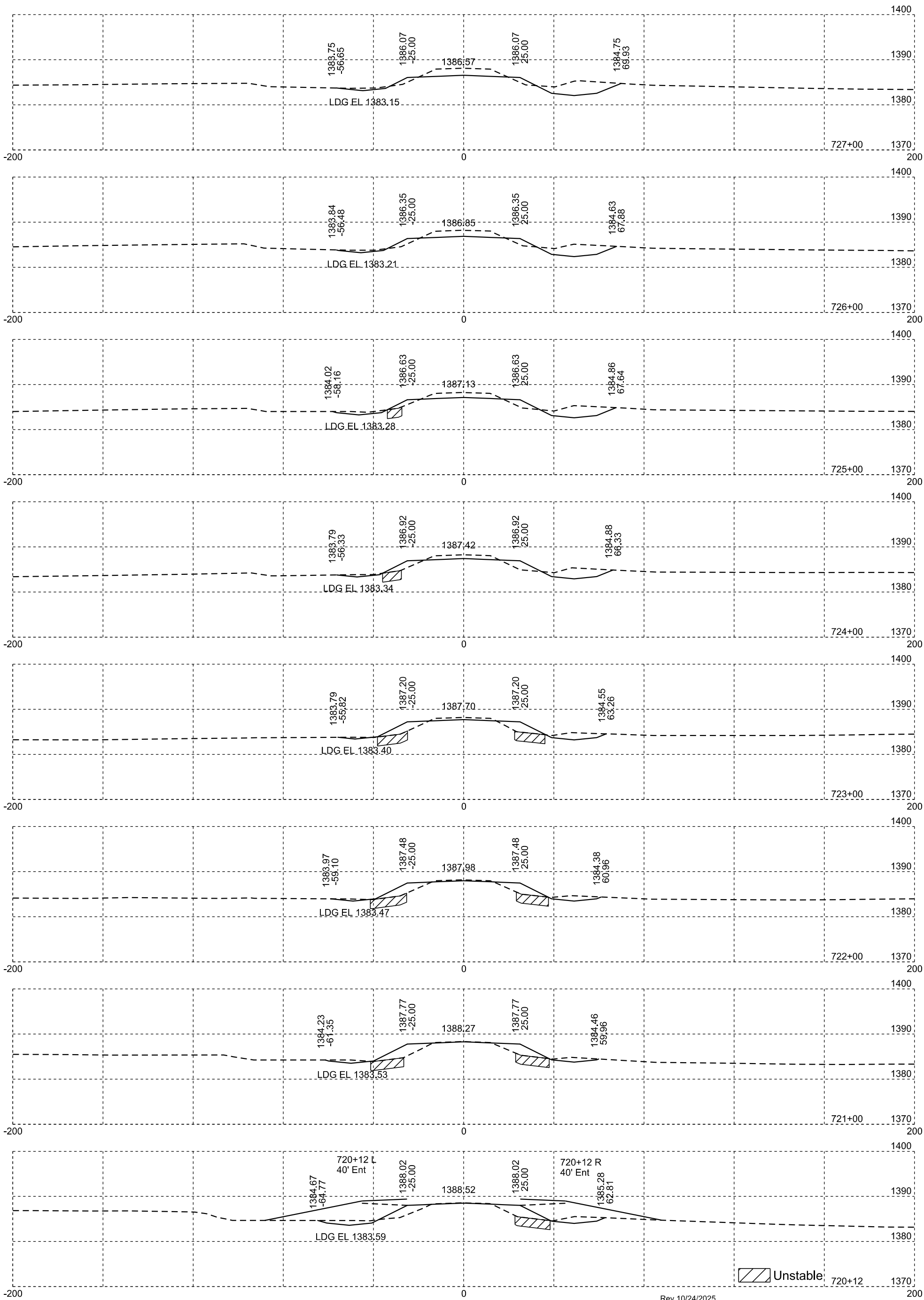
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X69	X99



Unstable

Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X70	X99

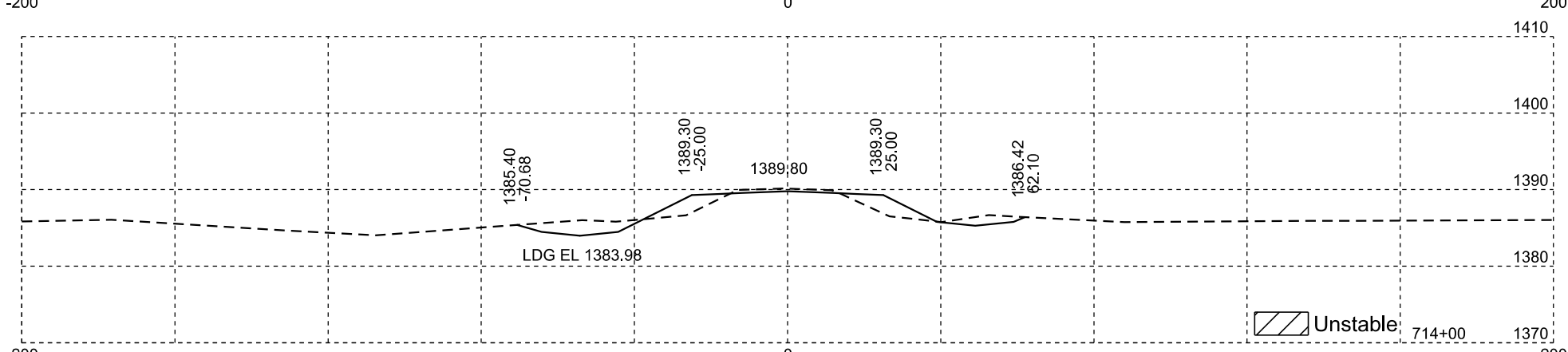
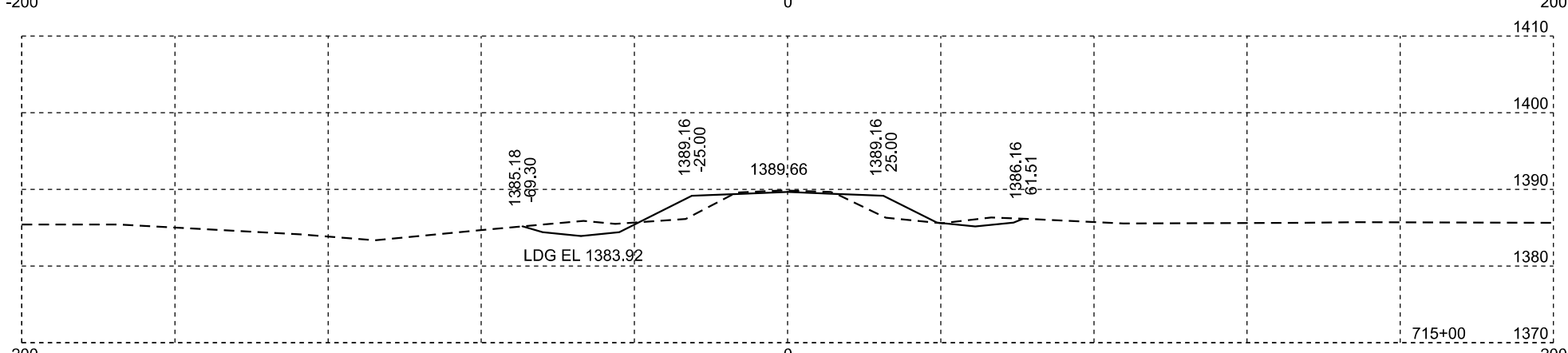
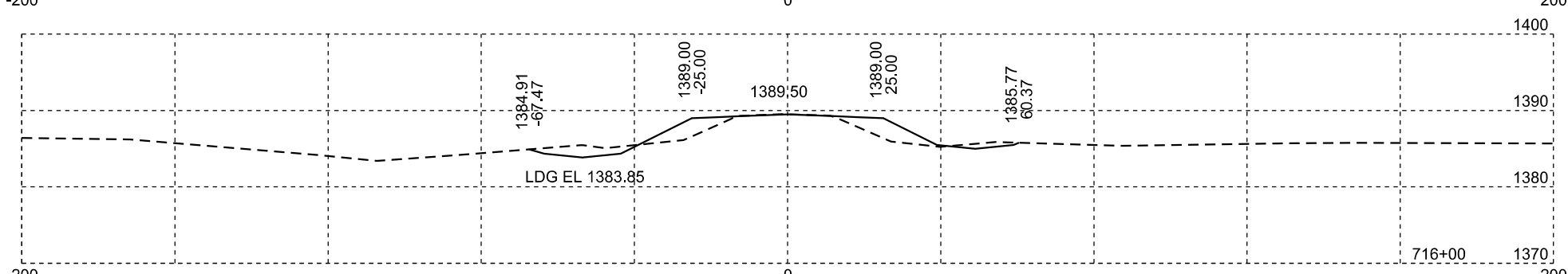
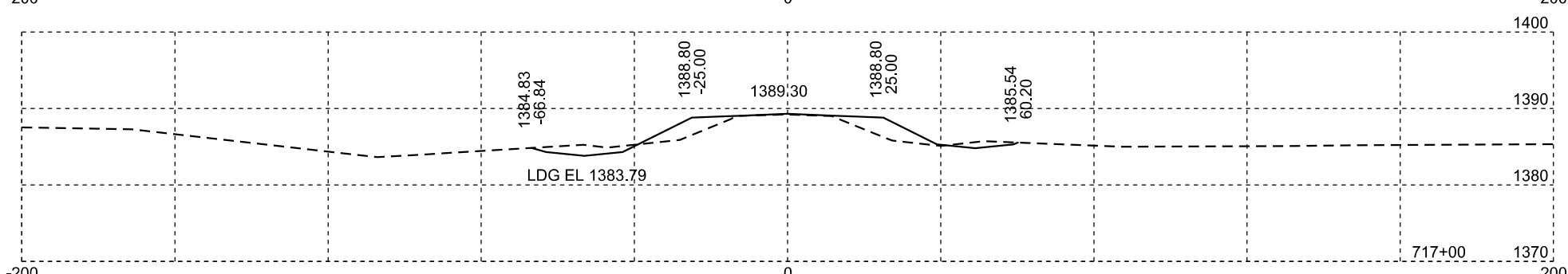
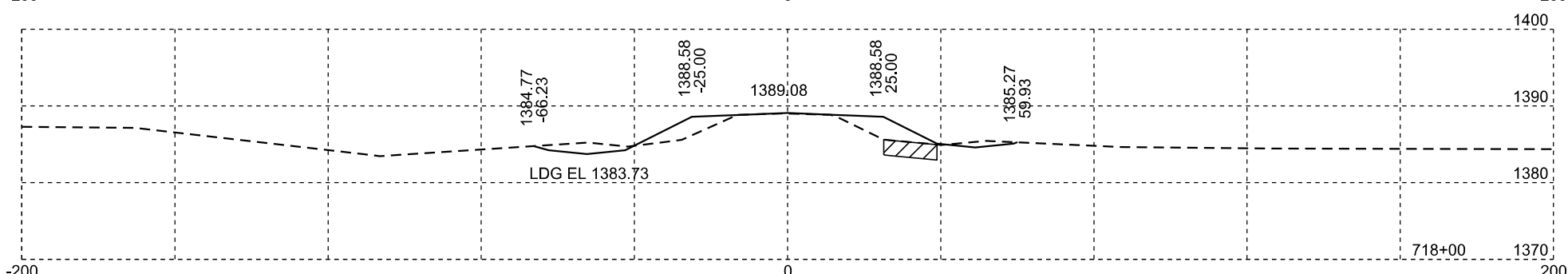
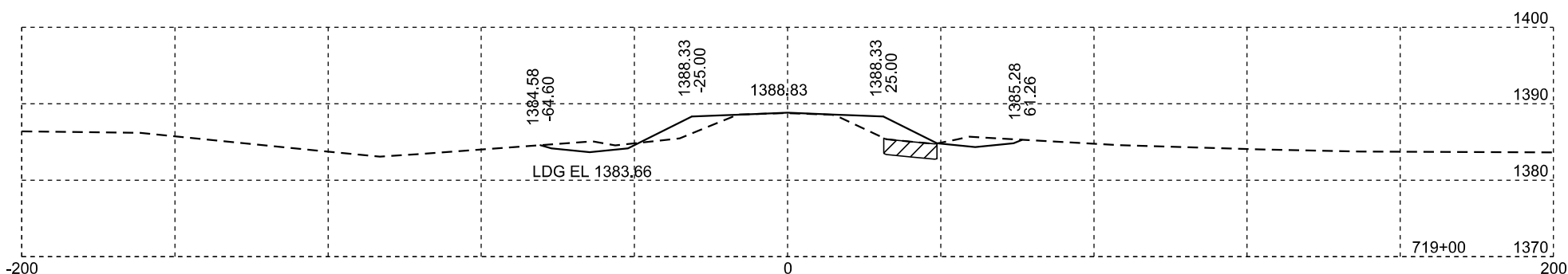
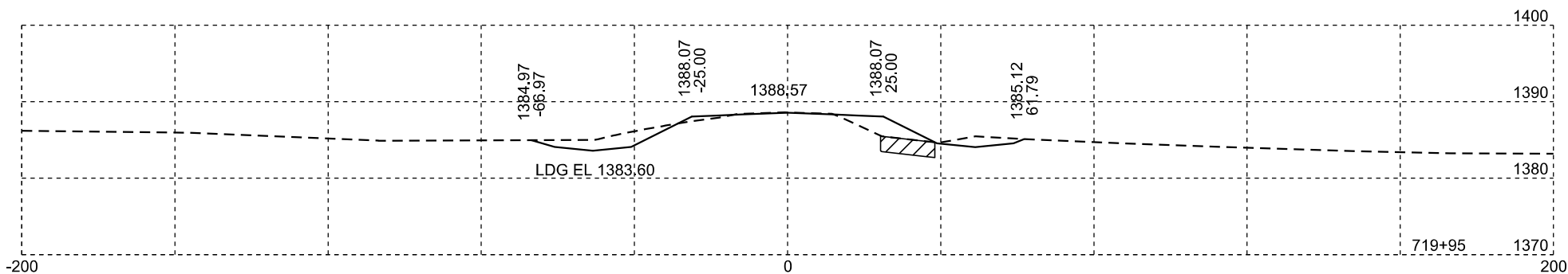
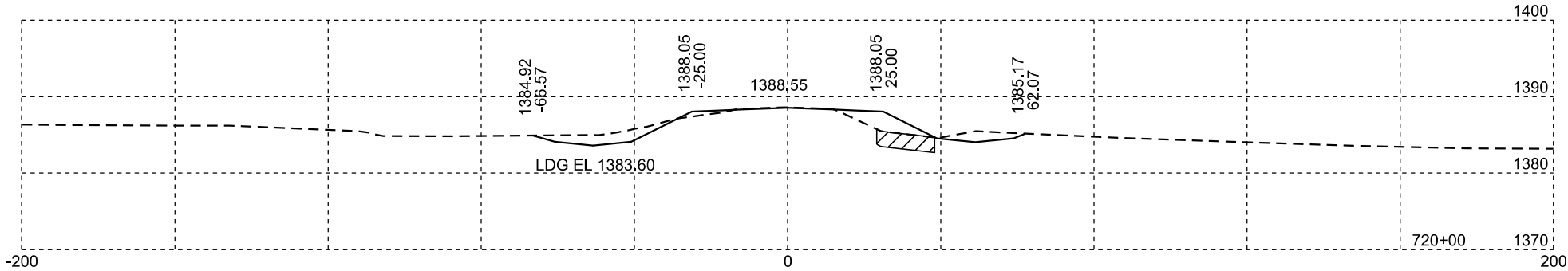


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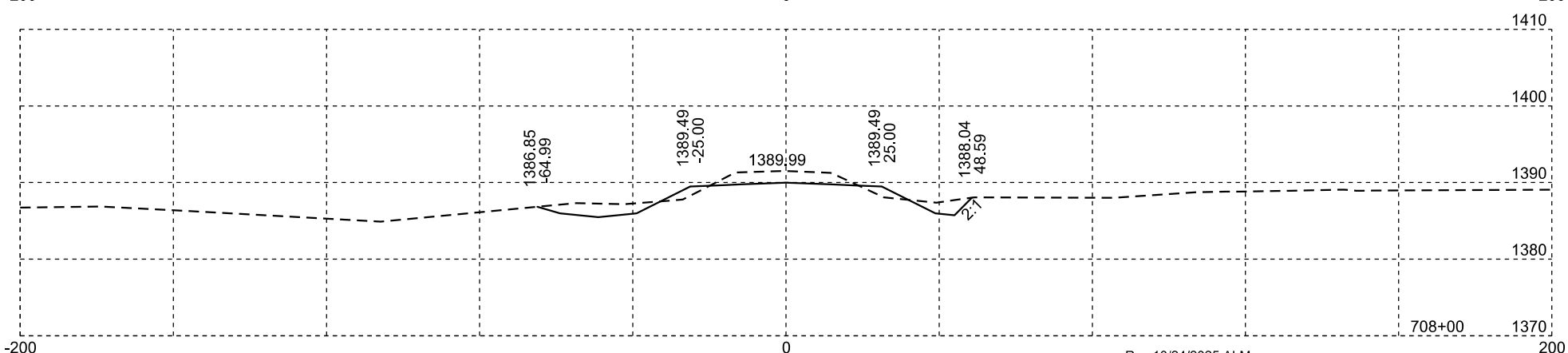
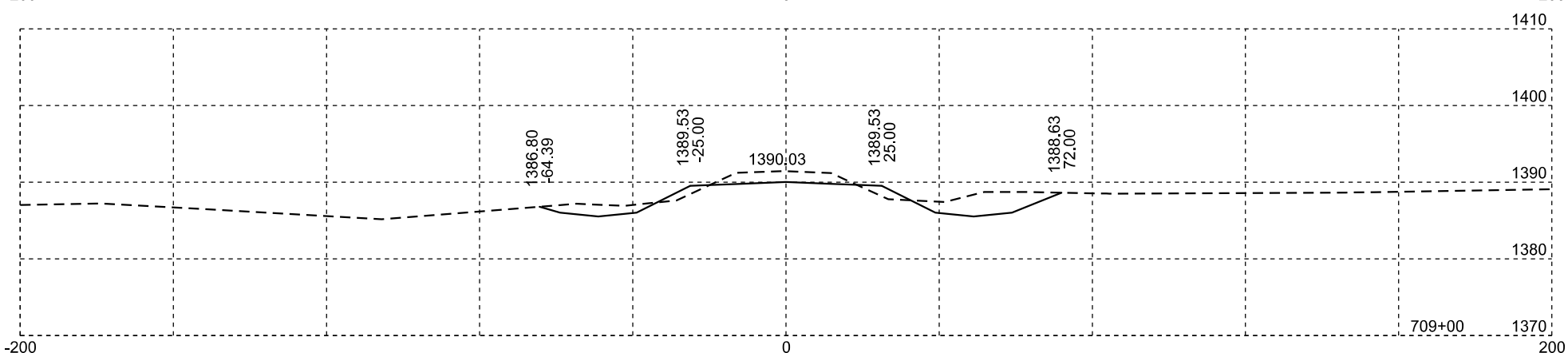
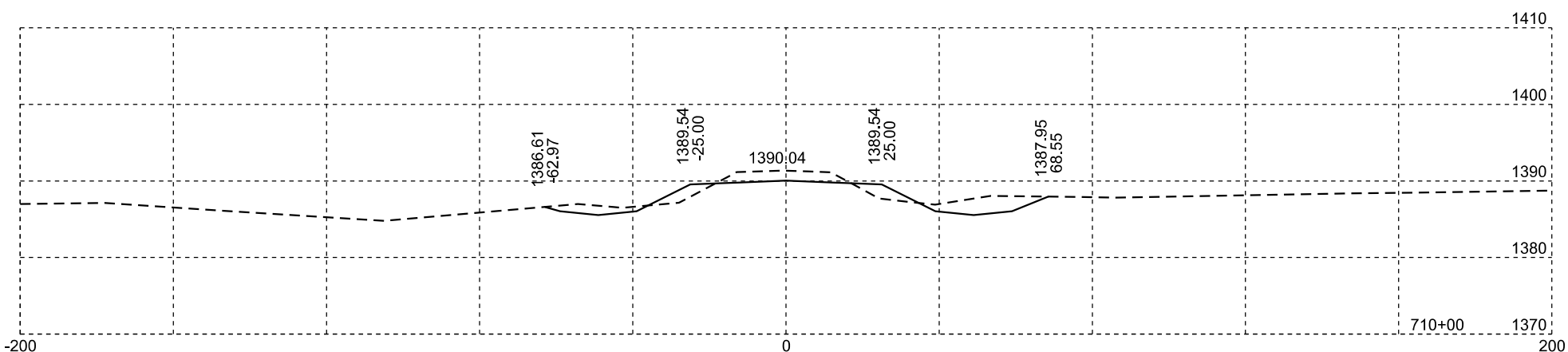
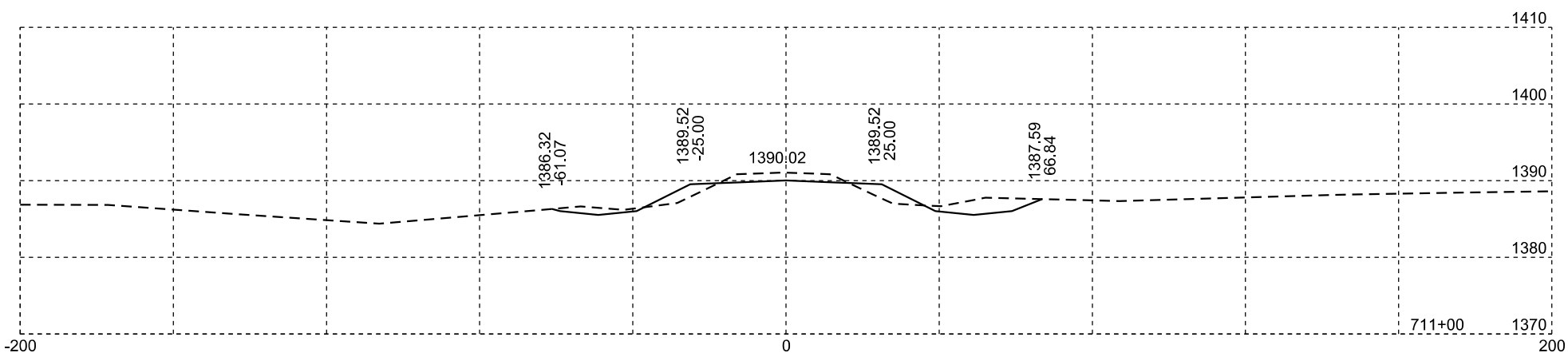
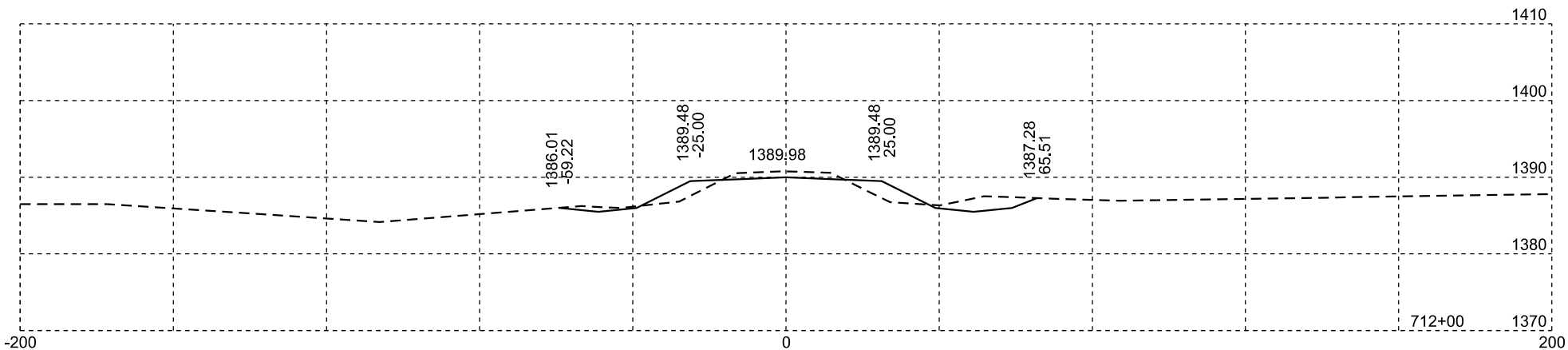
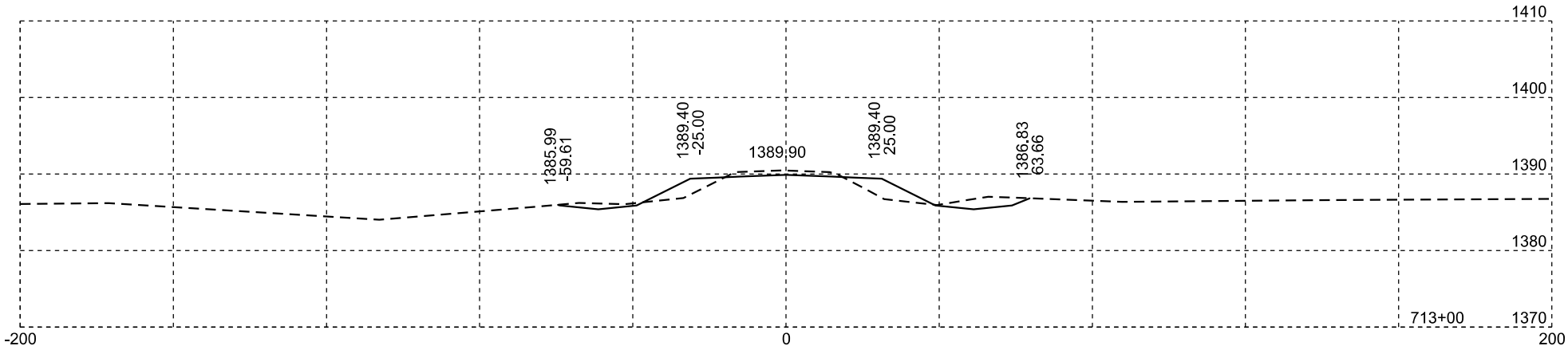
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X71	X99



Unstable

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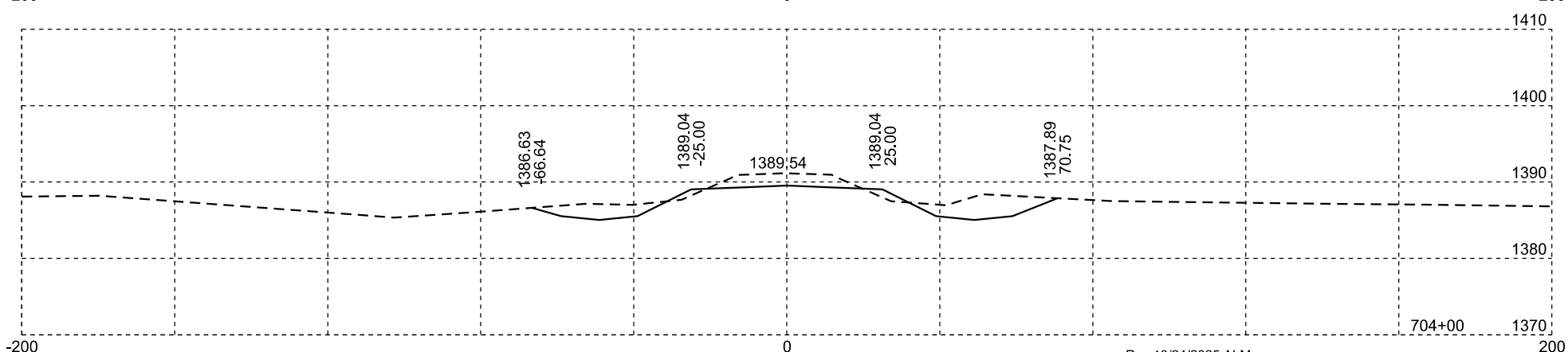
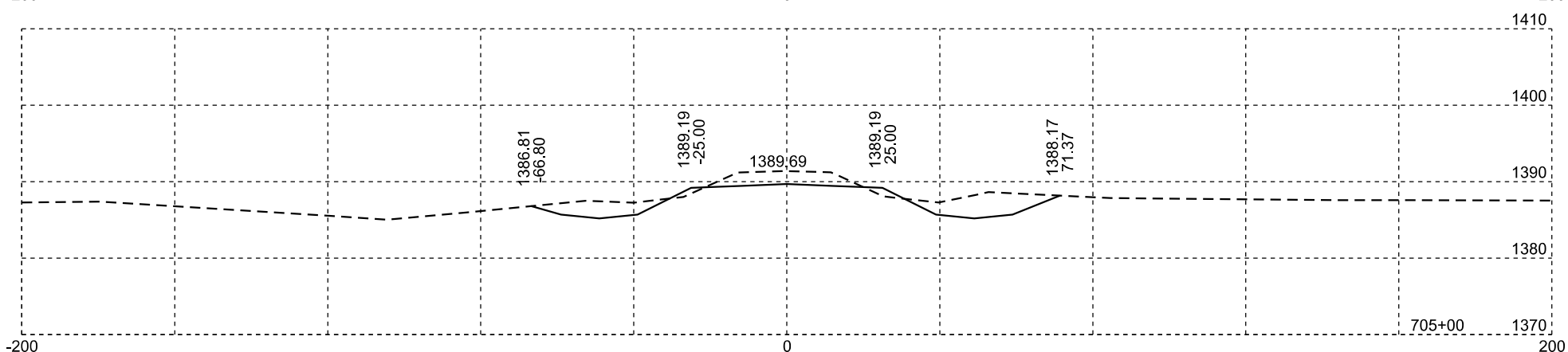
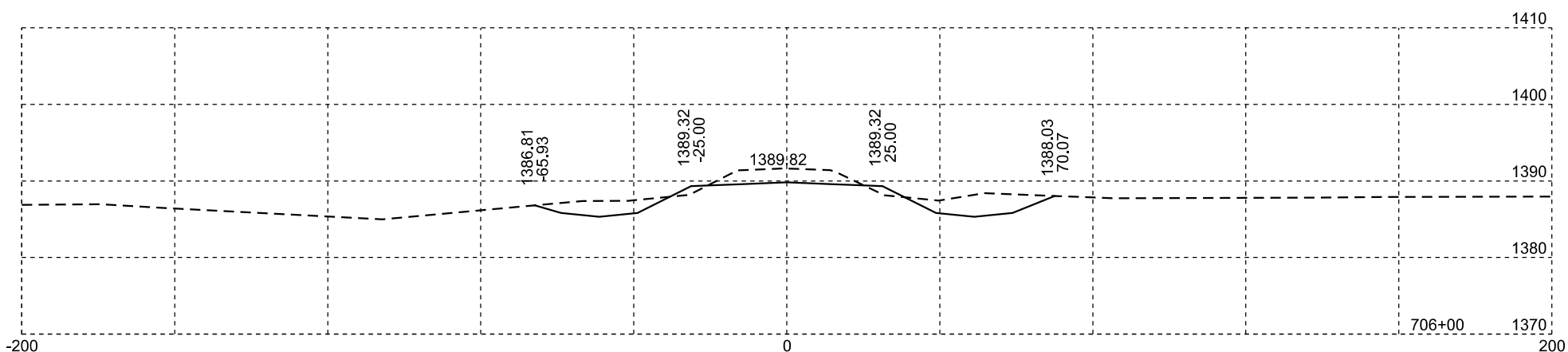
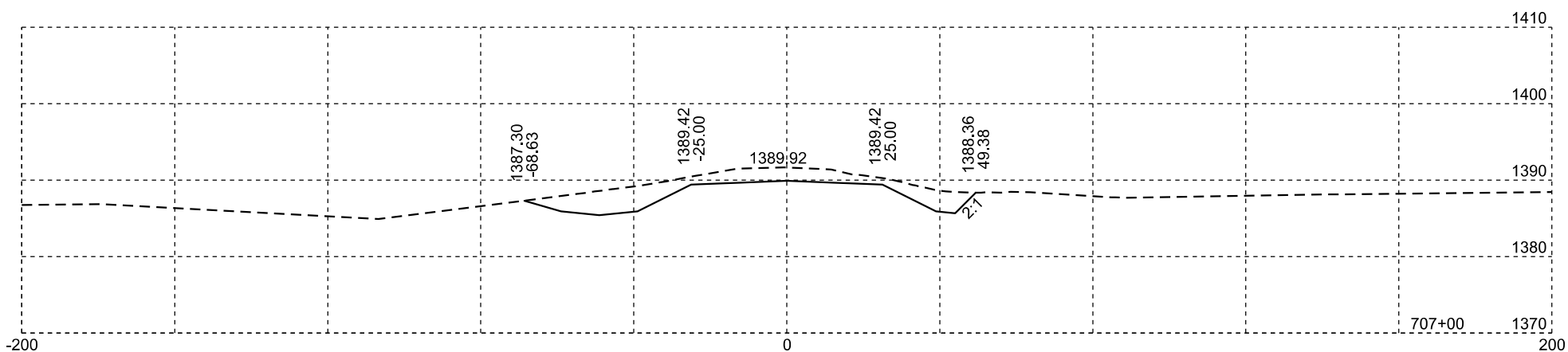
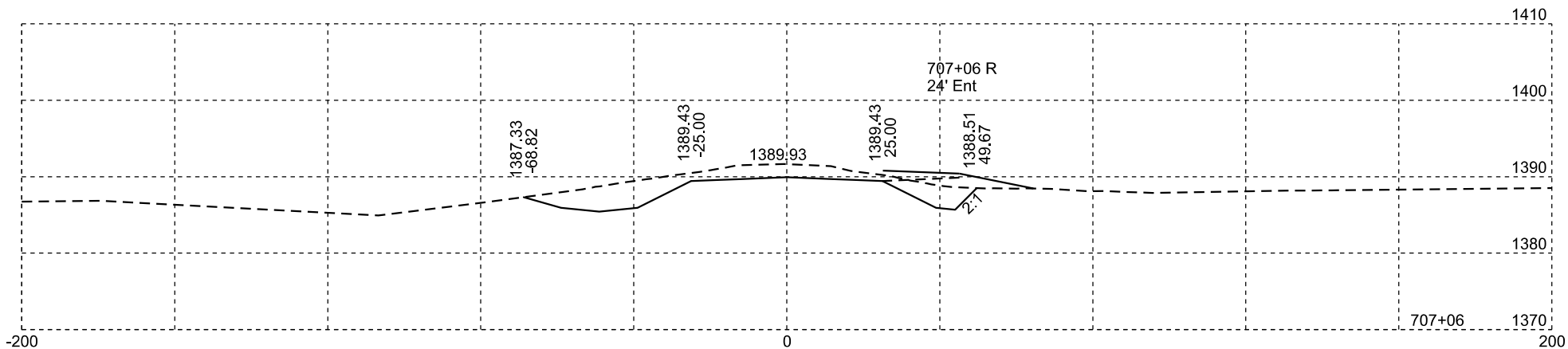
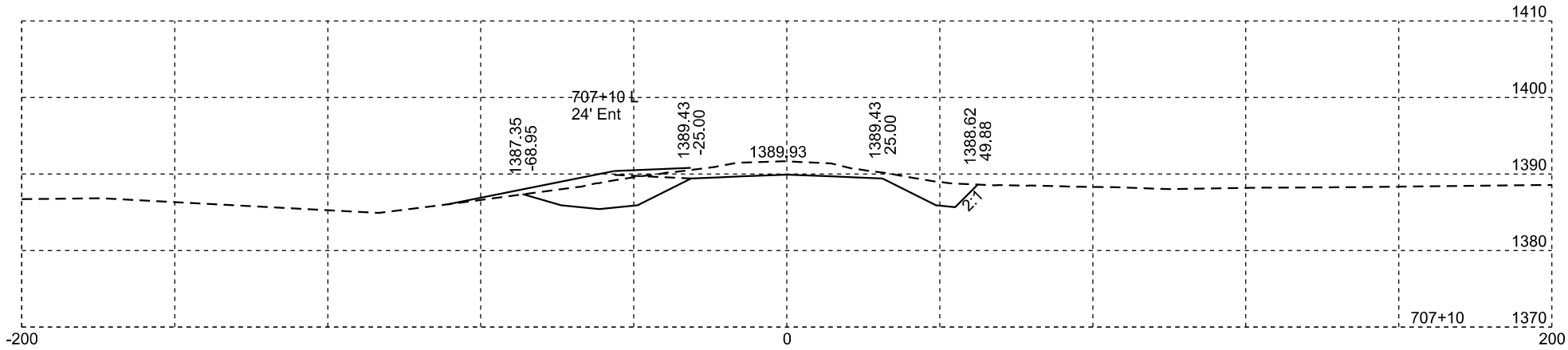
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X72	X99



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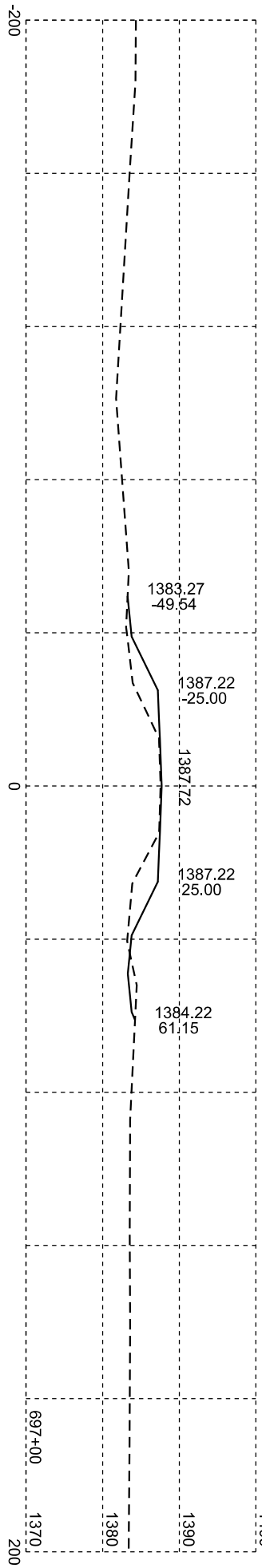
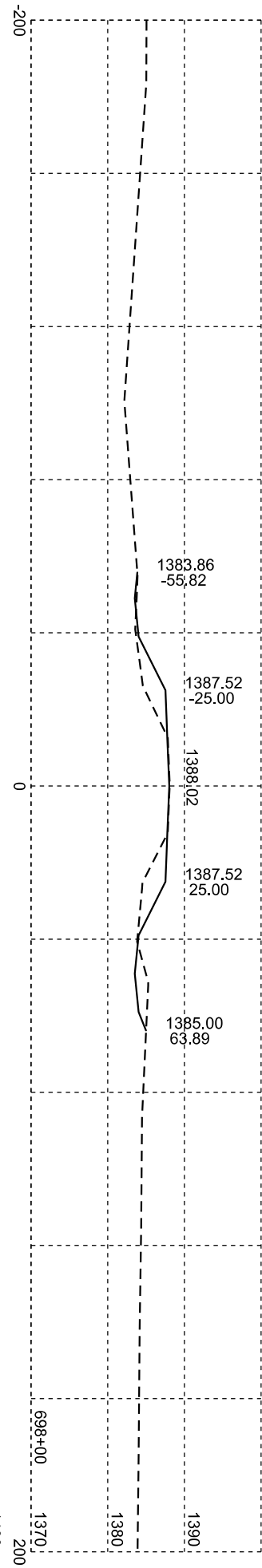
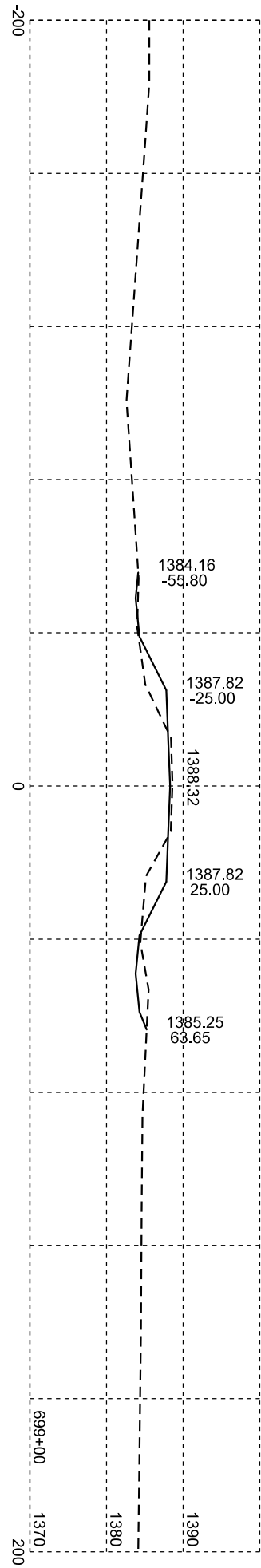
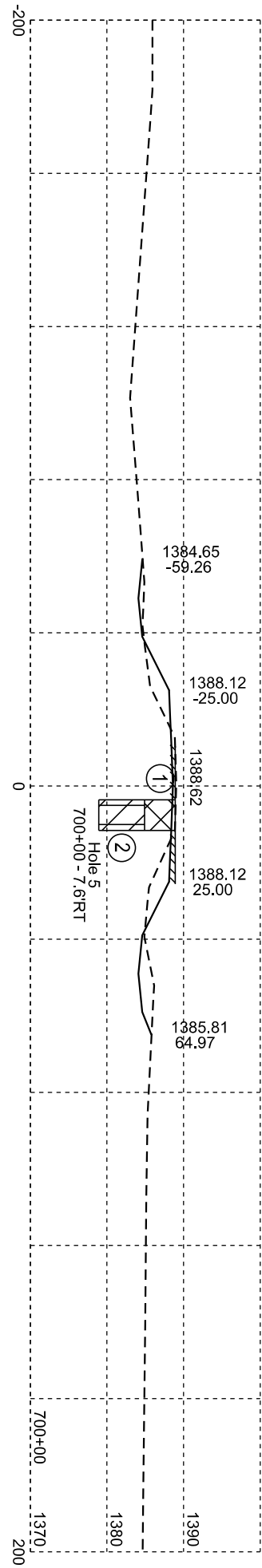
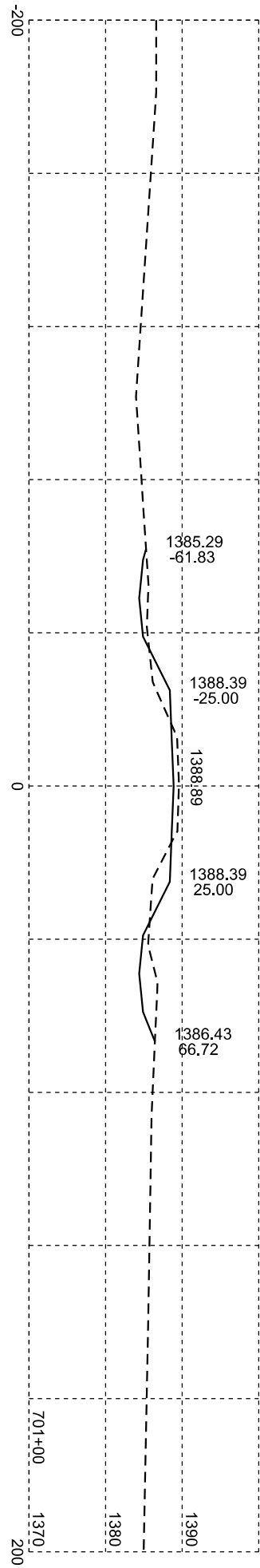
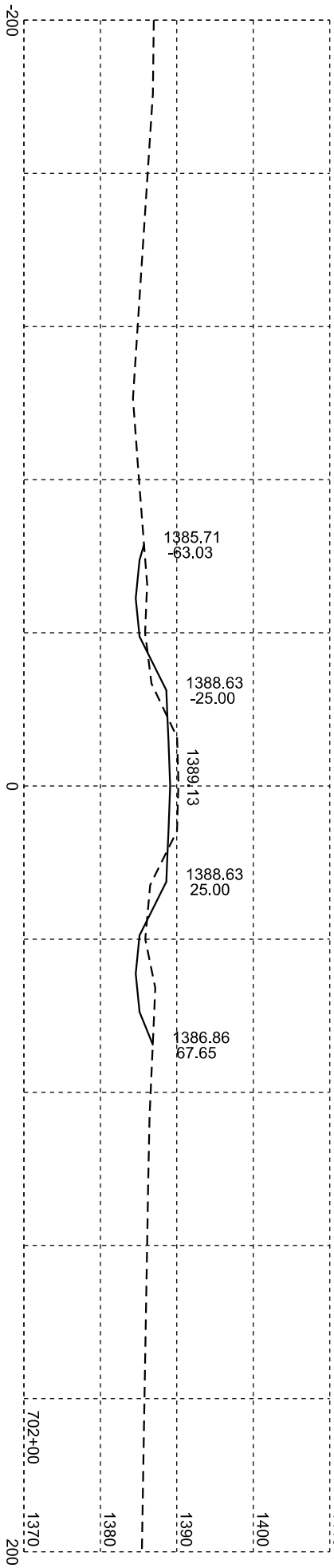
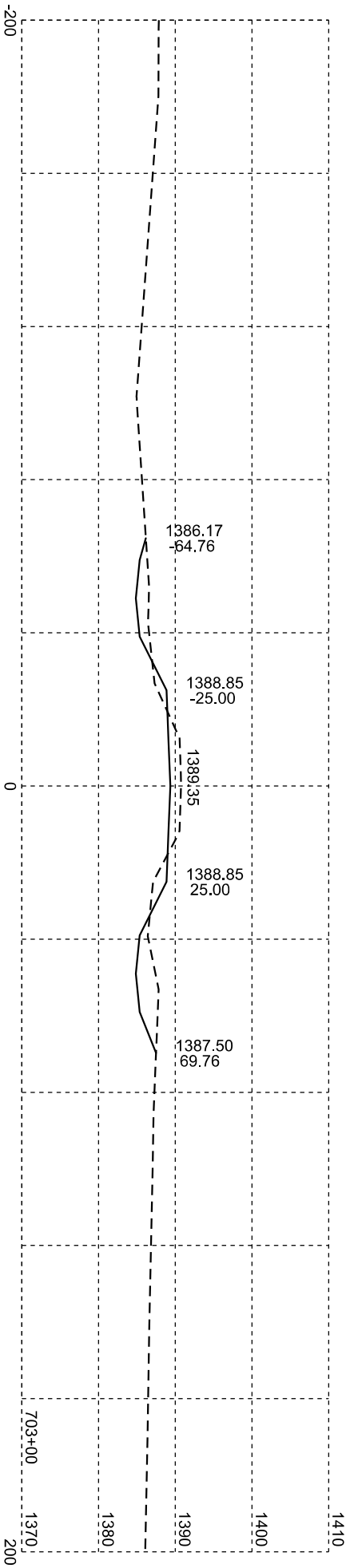
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X73	X99



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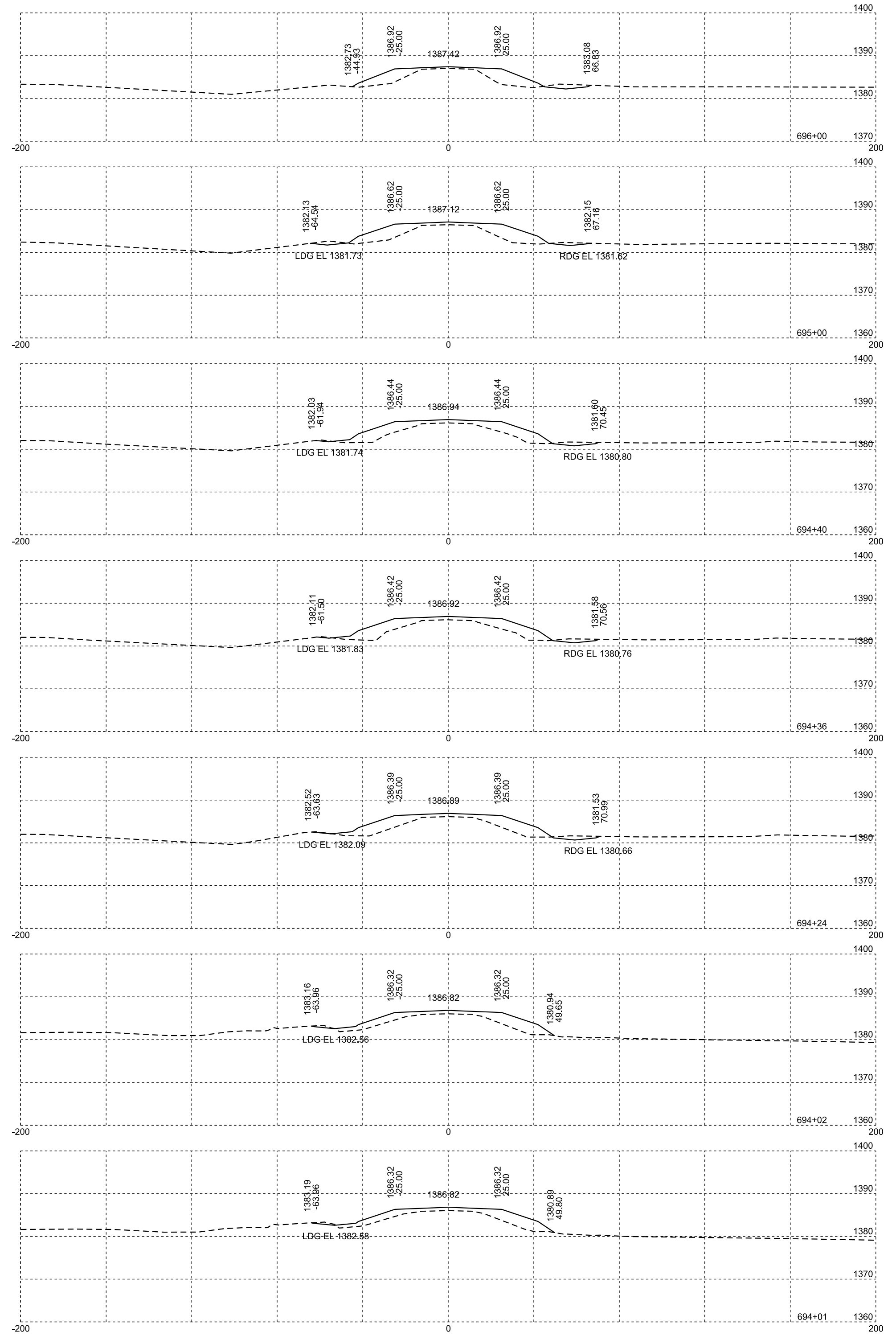
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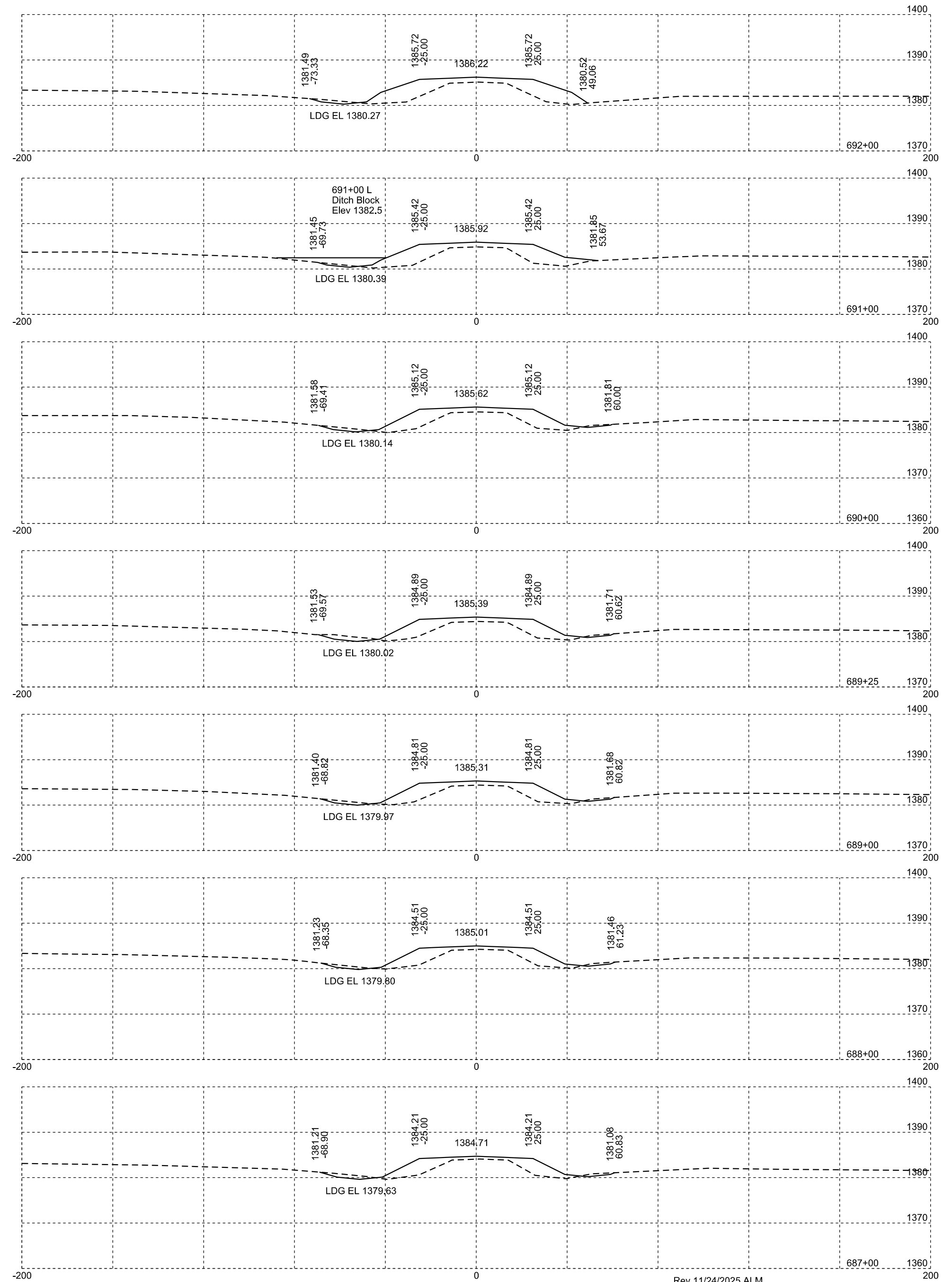
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X74	X99



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STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X75	X99

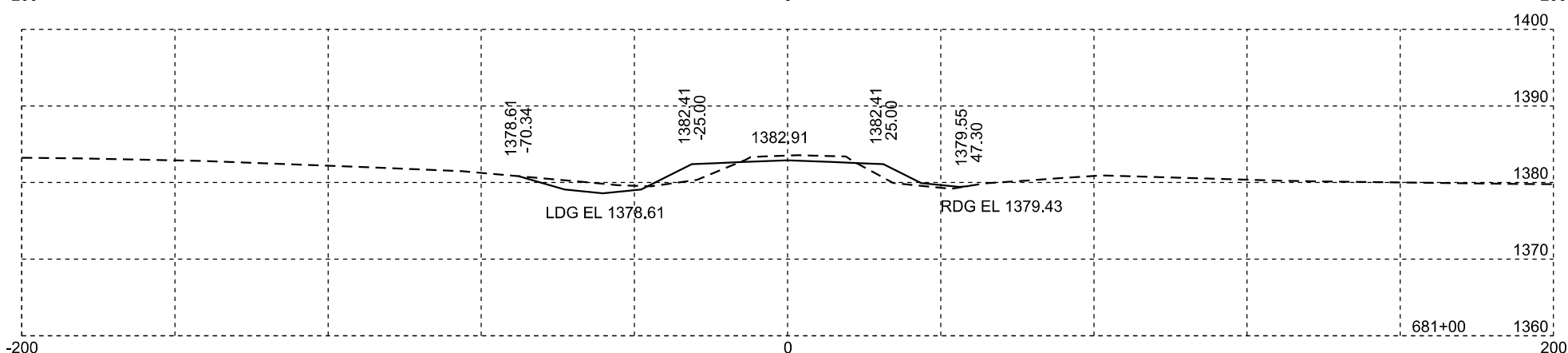
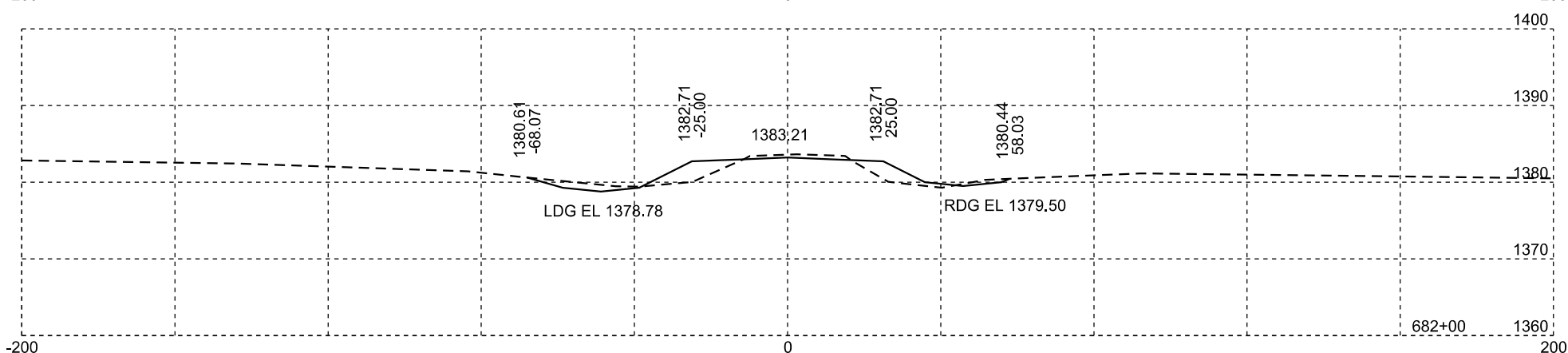
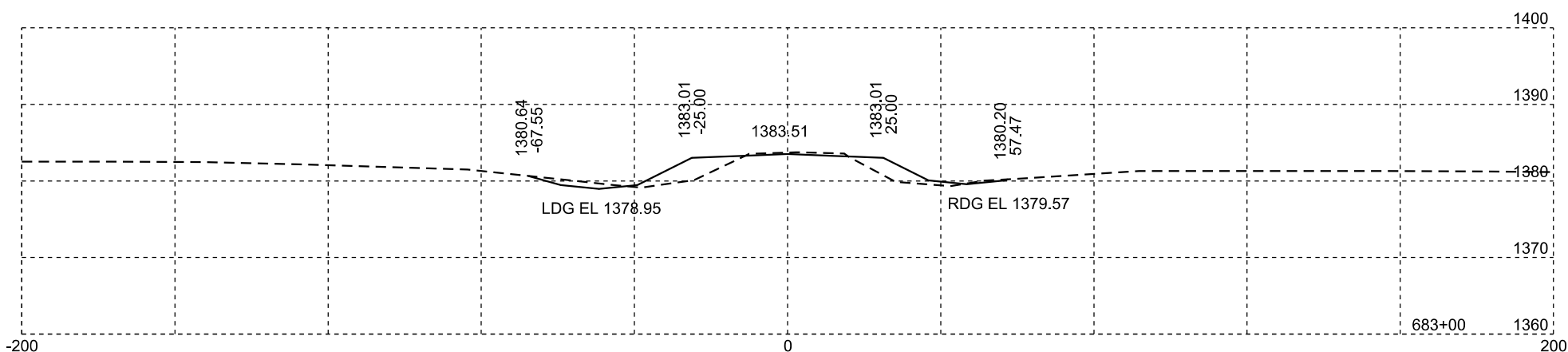
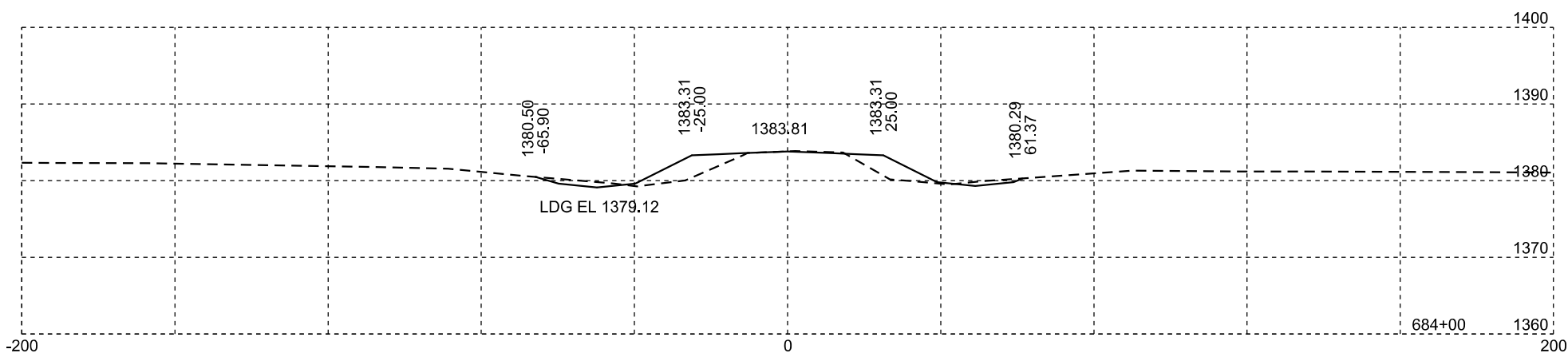
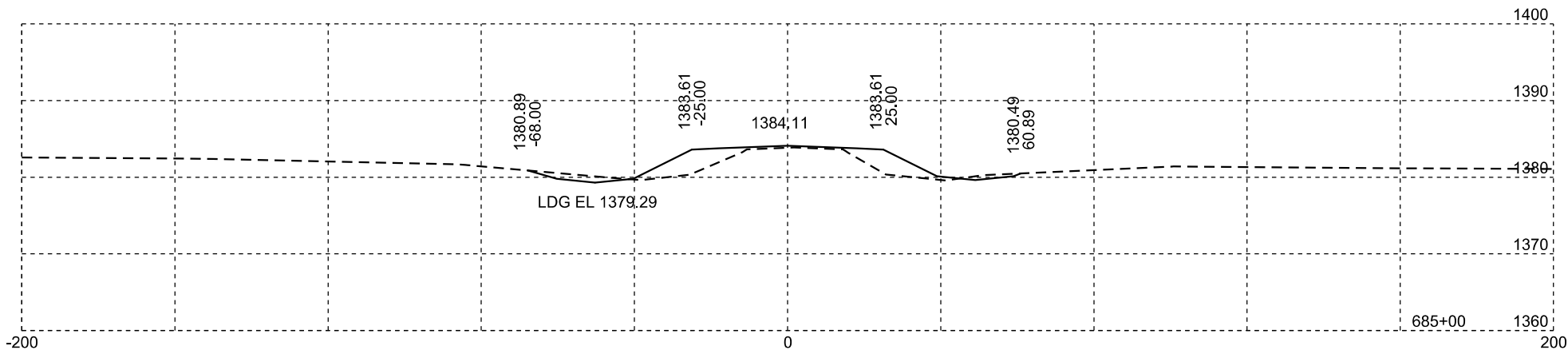
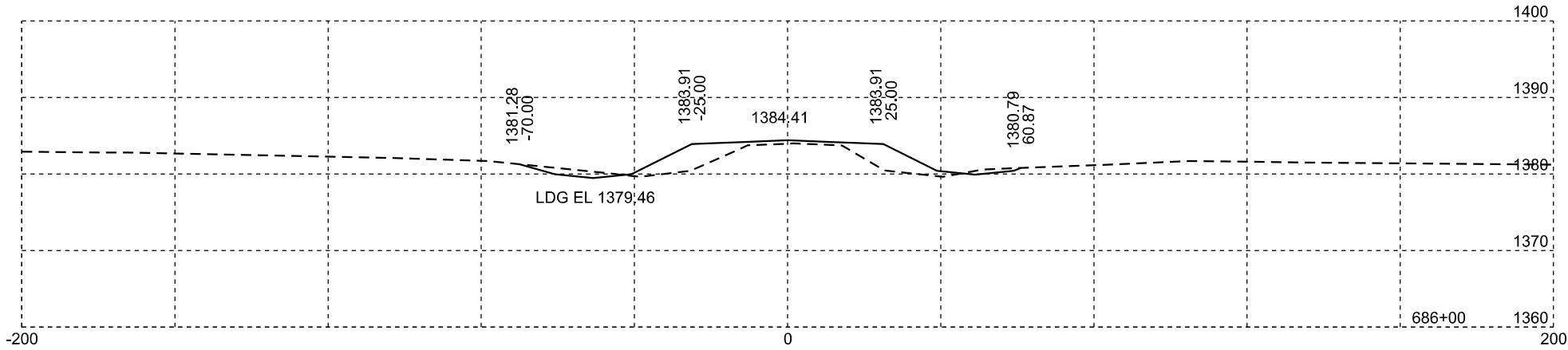




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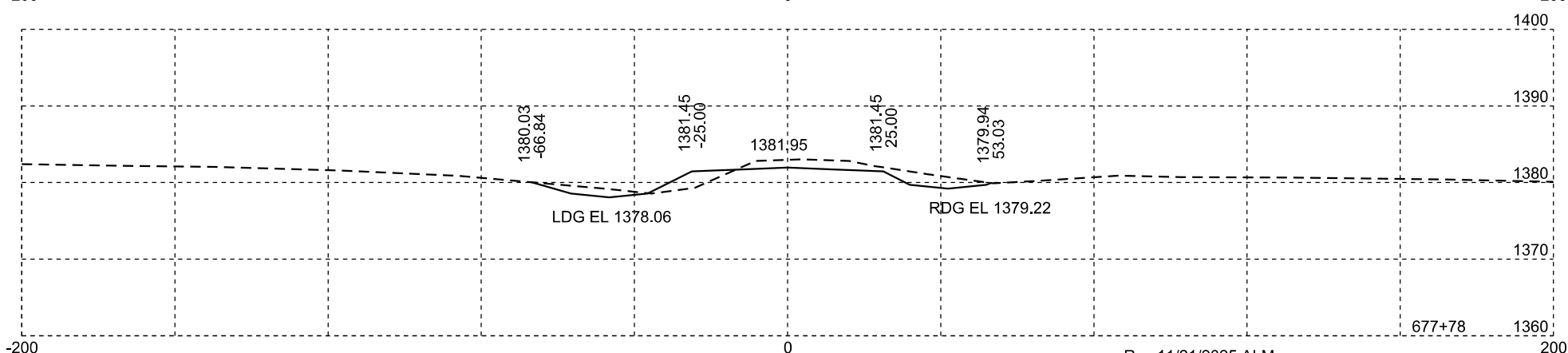
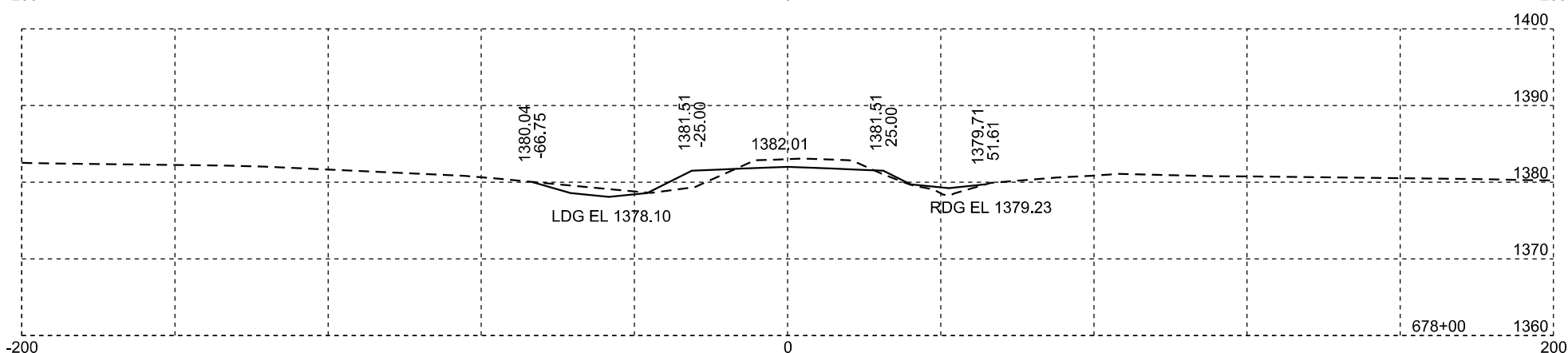
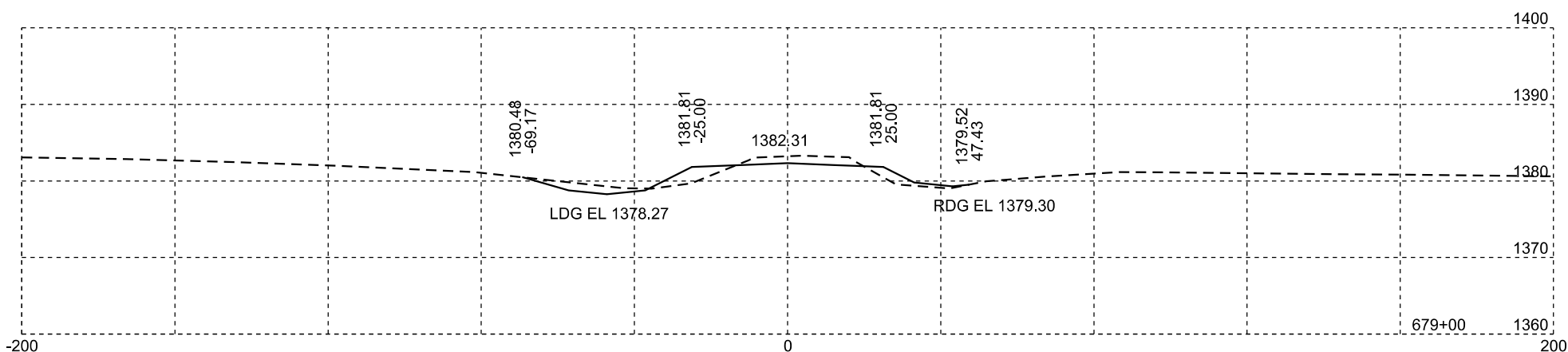
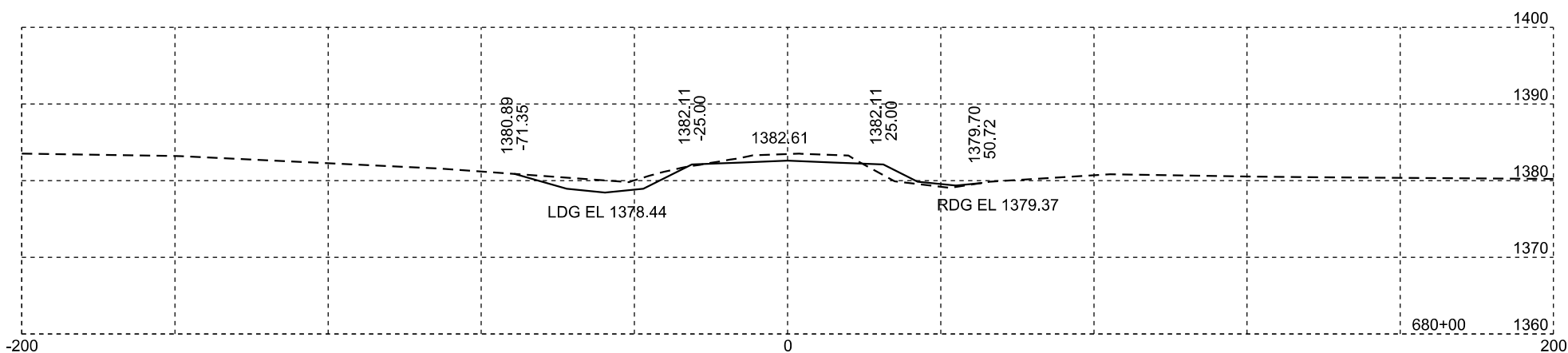
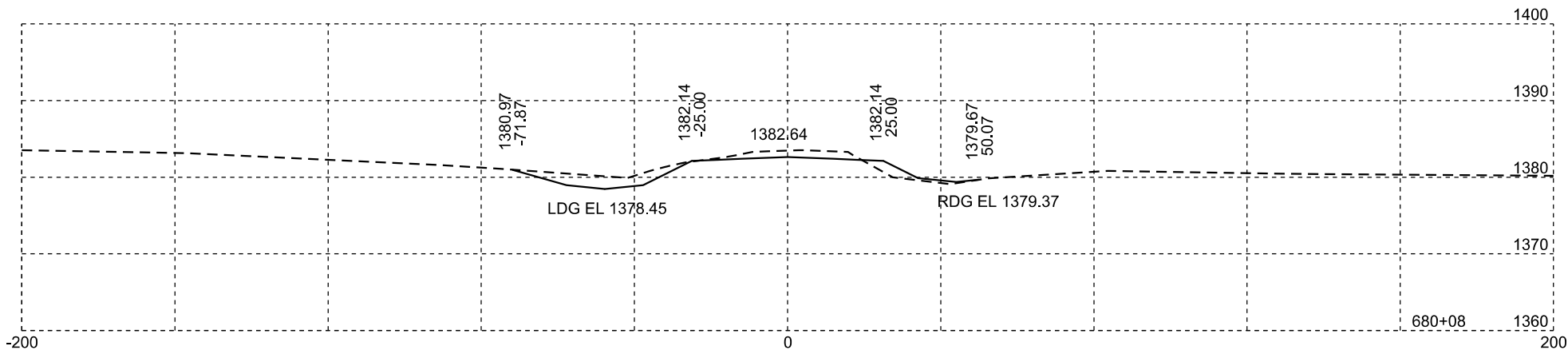
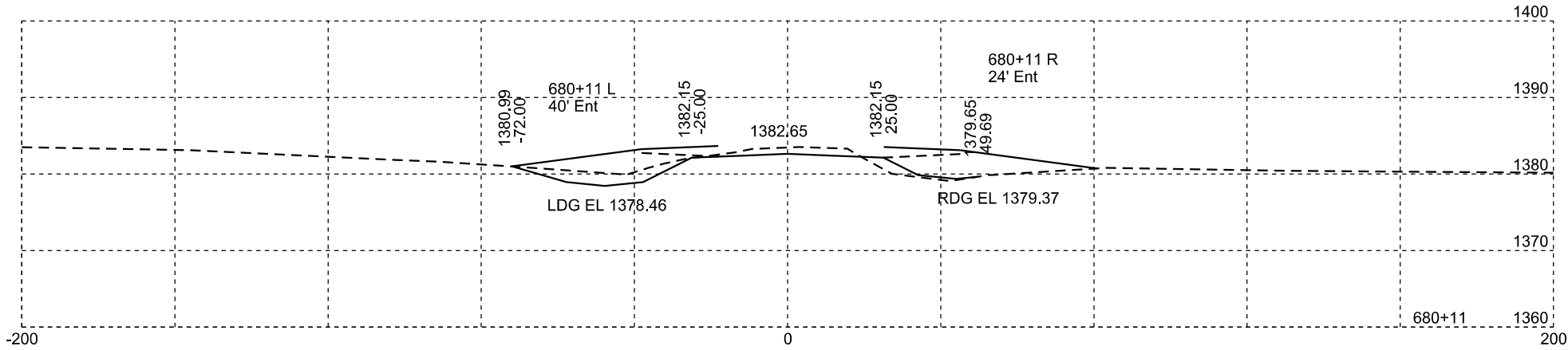
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X78	X99



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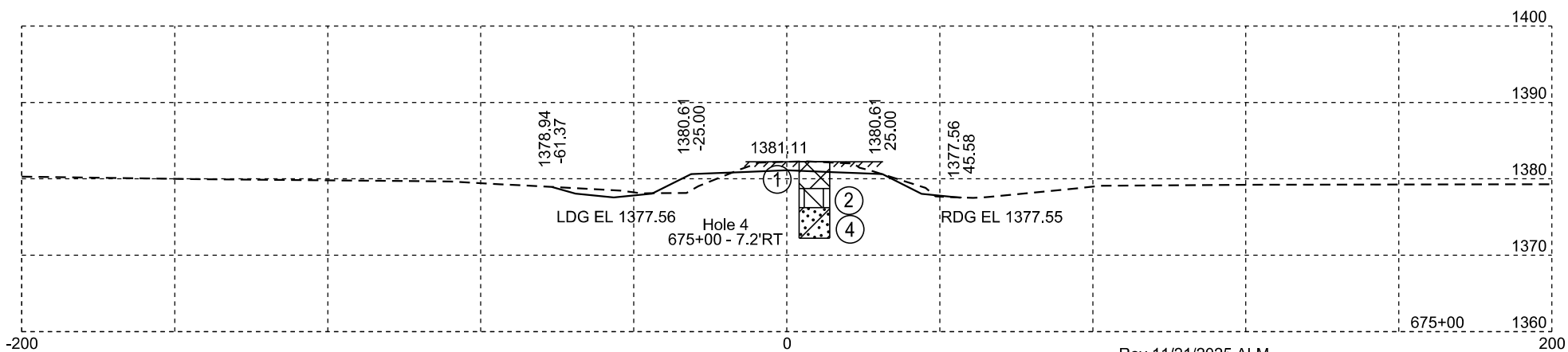
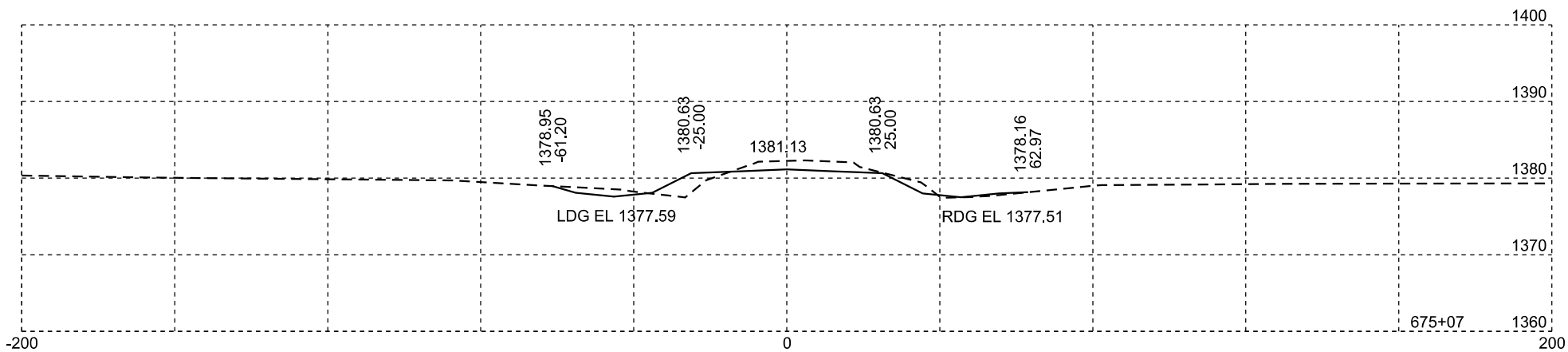
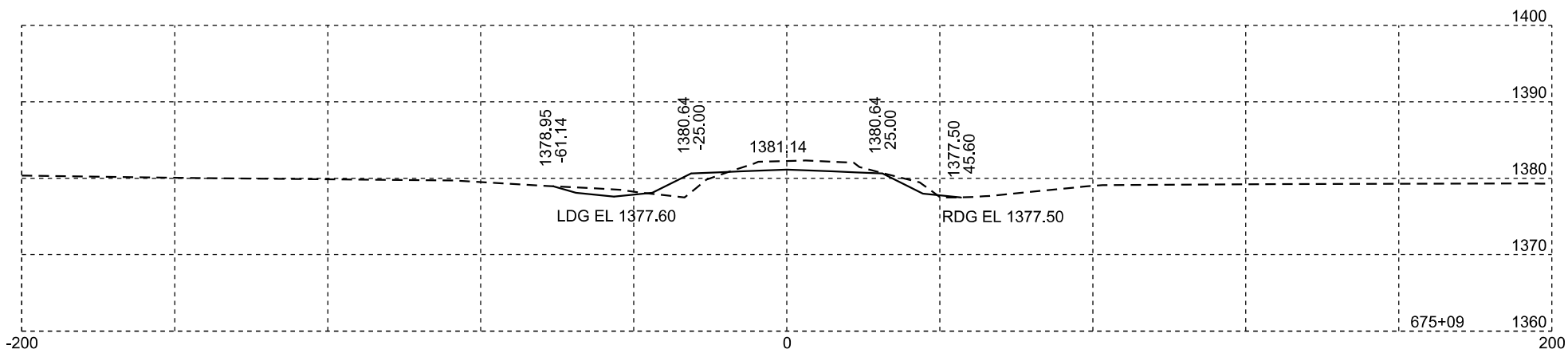
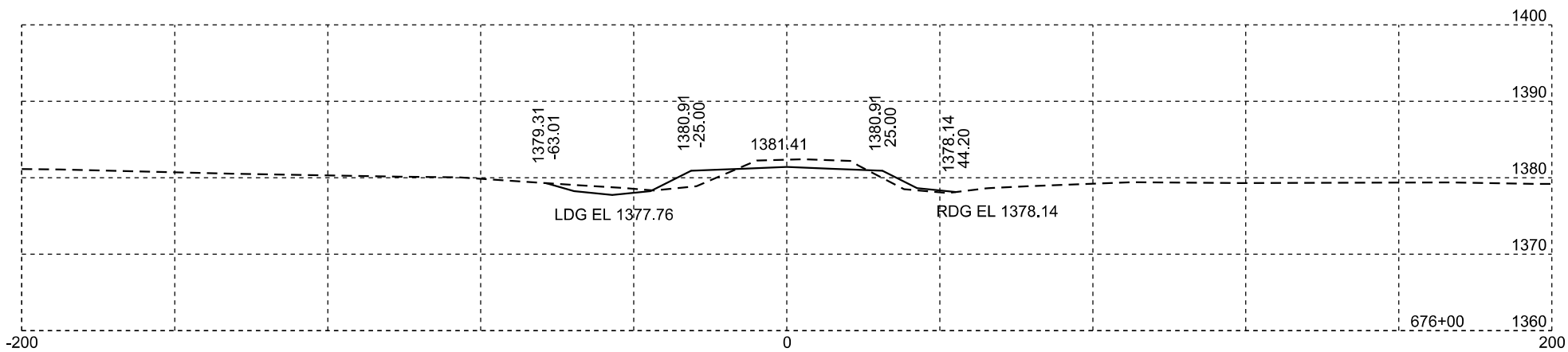
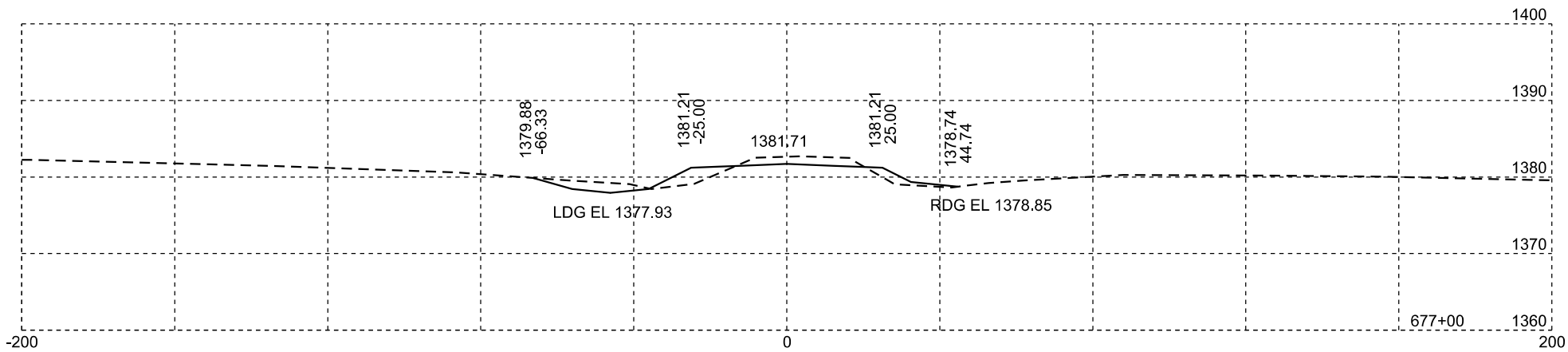
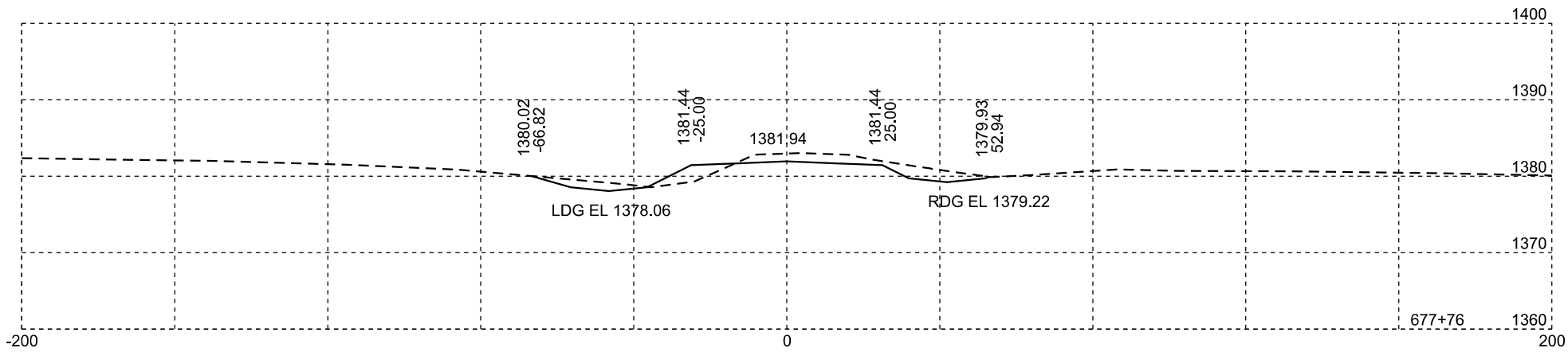
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO. X79	TOTAL SHEETS X99
	P-PH 0038(48)306		



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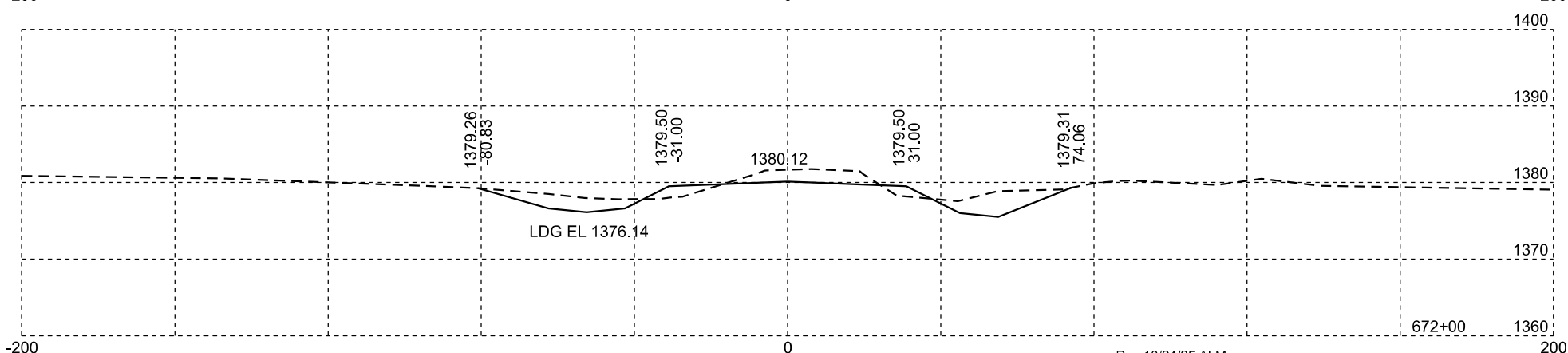
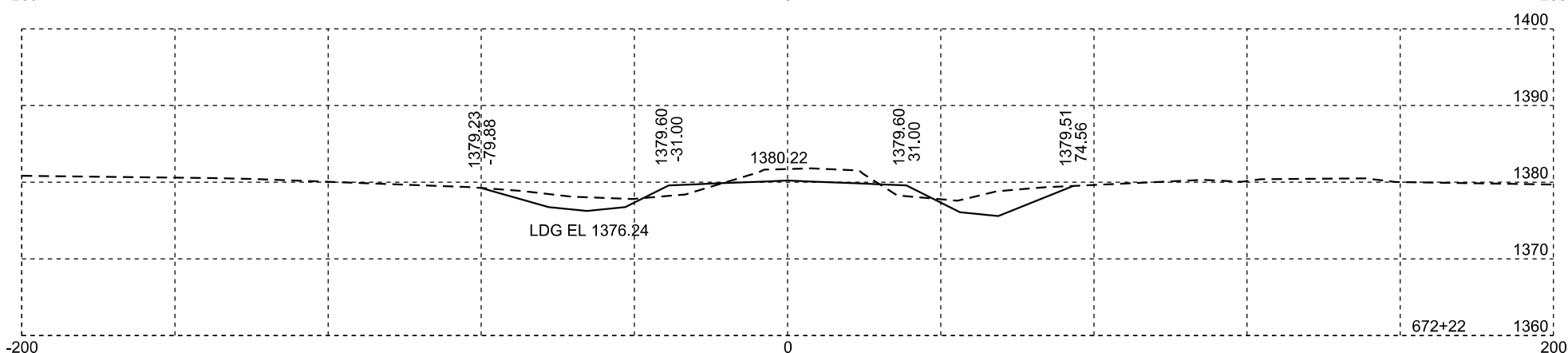
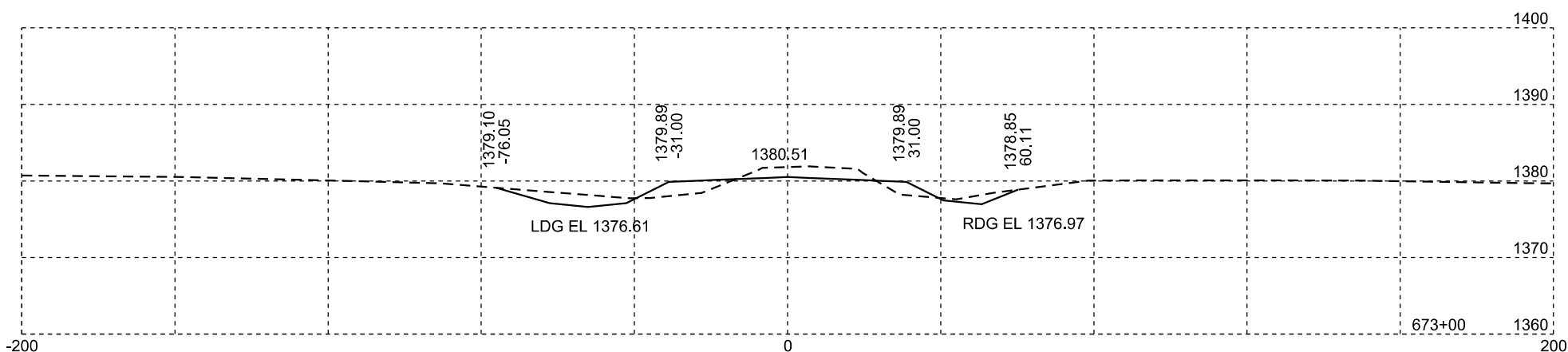
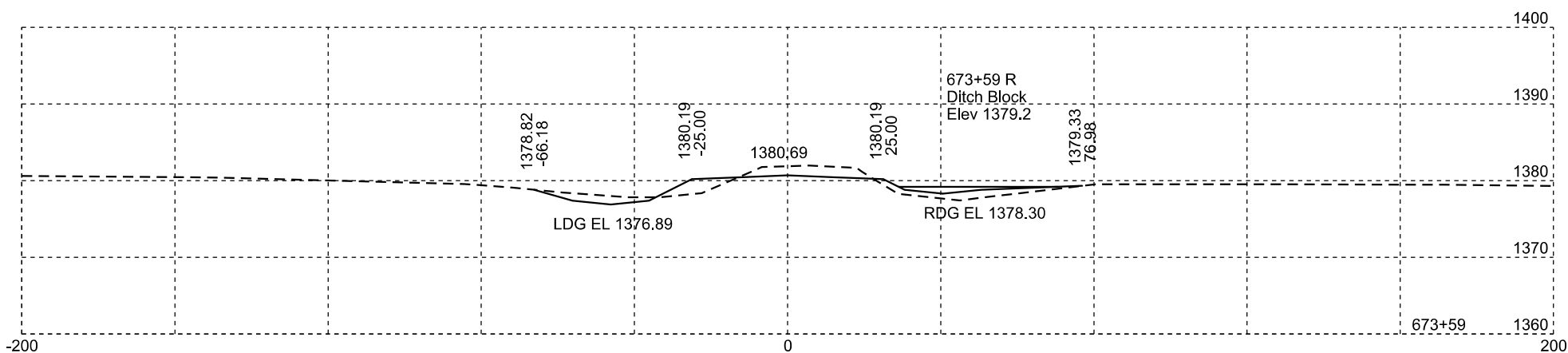
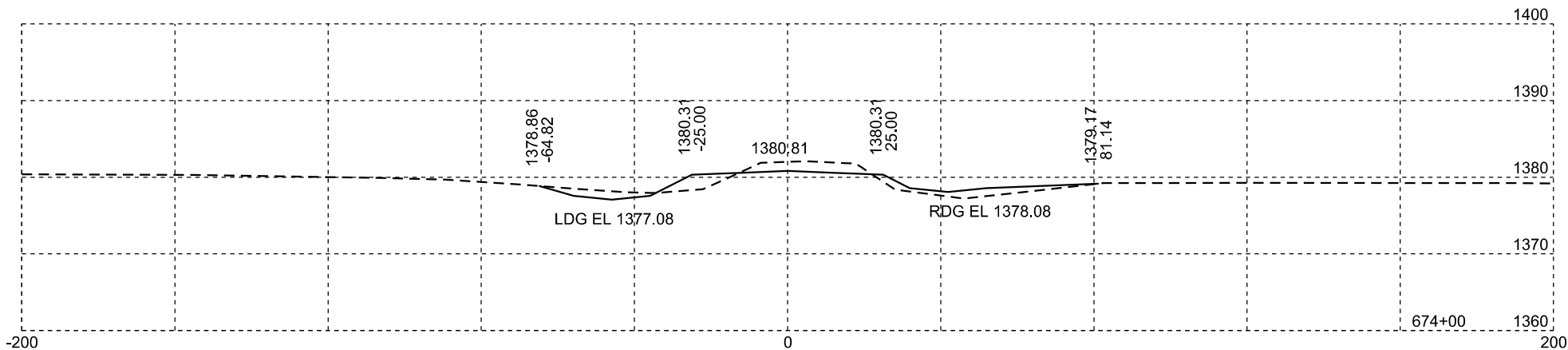
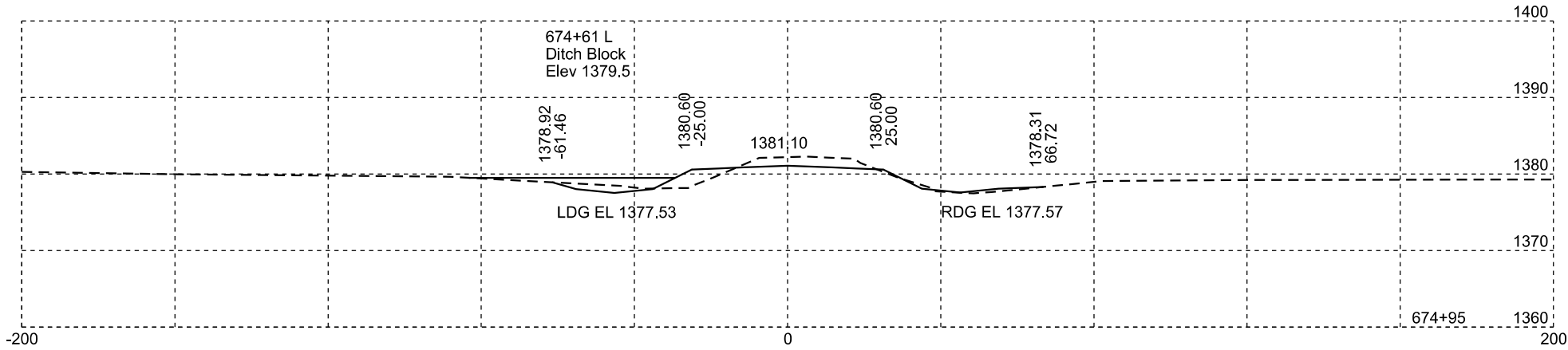
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X80	X99



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Plotting Date: 01/20/2026

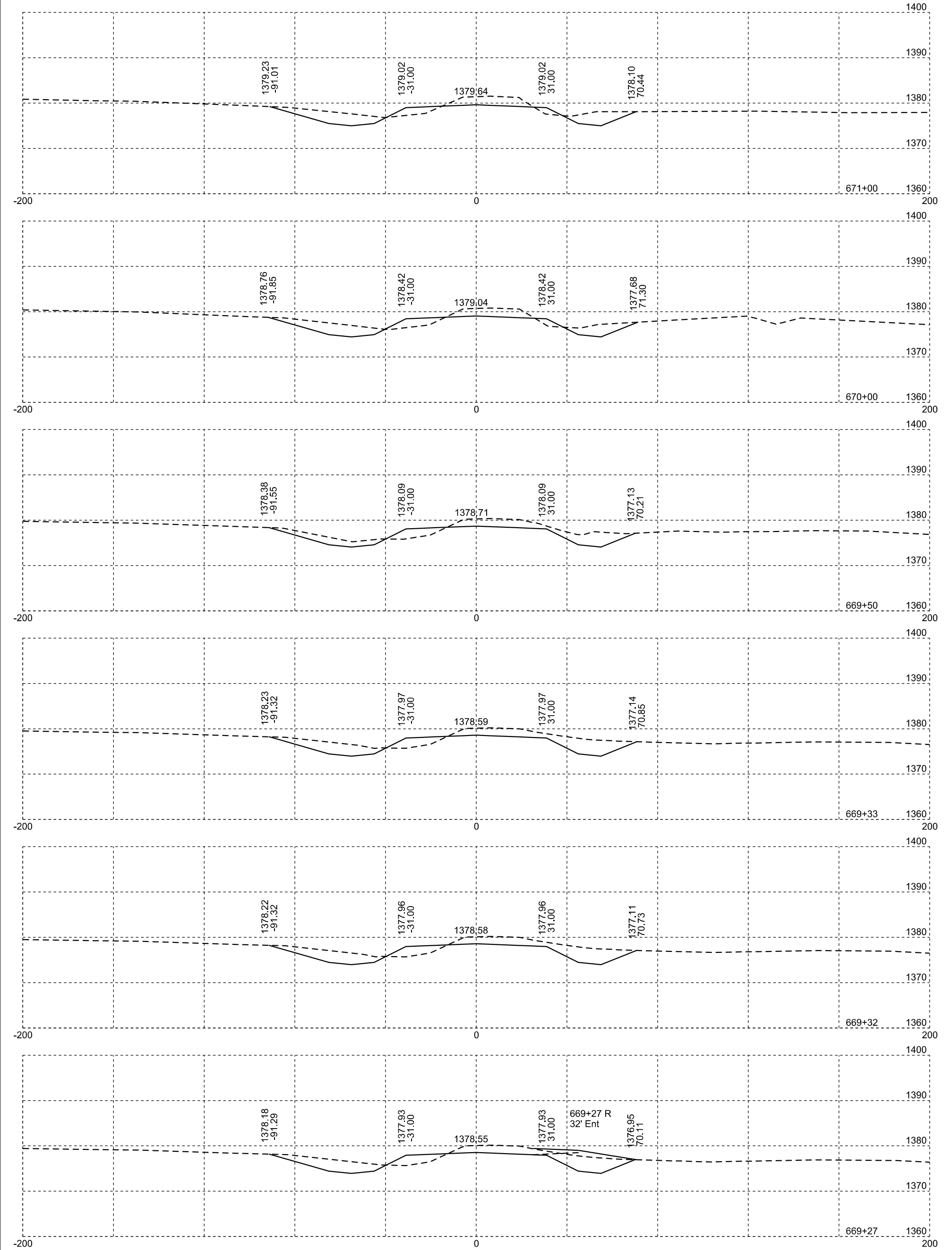
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X81	X99



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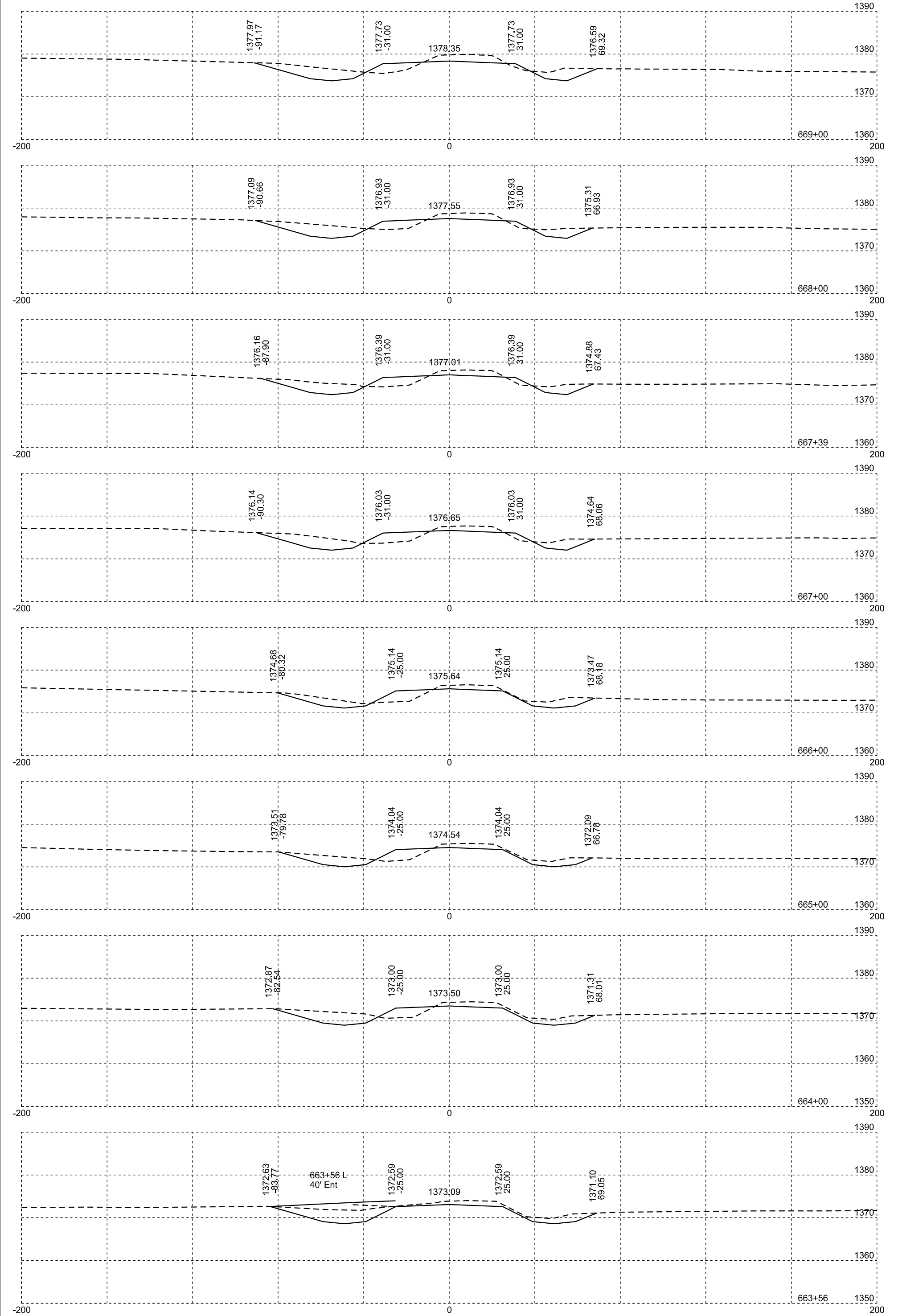
Plotting Date: 01/20/2026

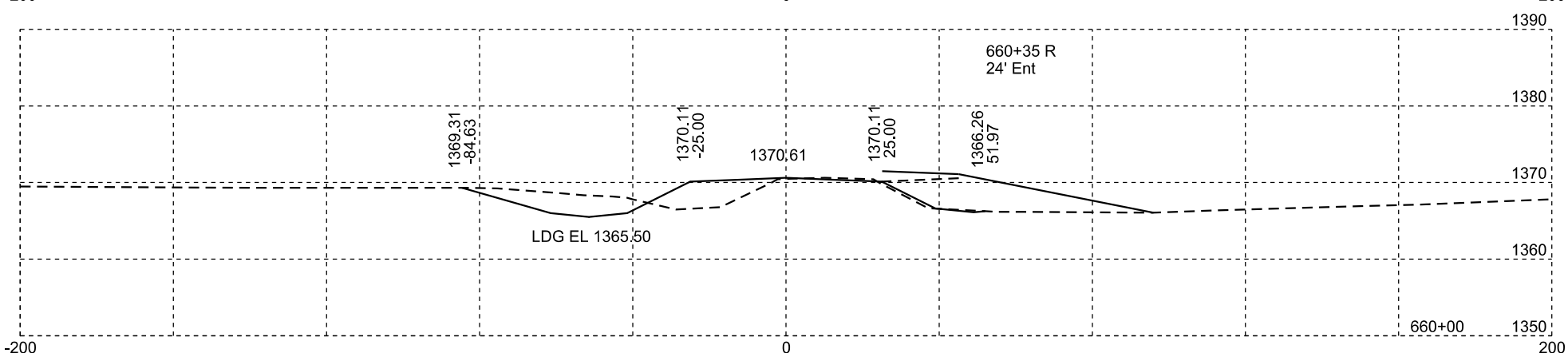
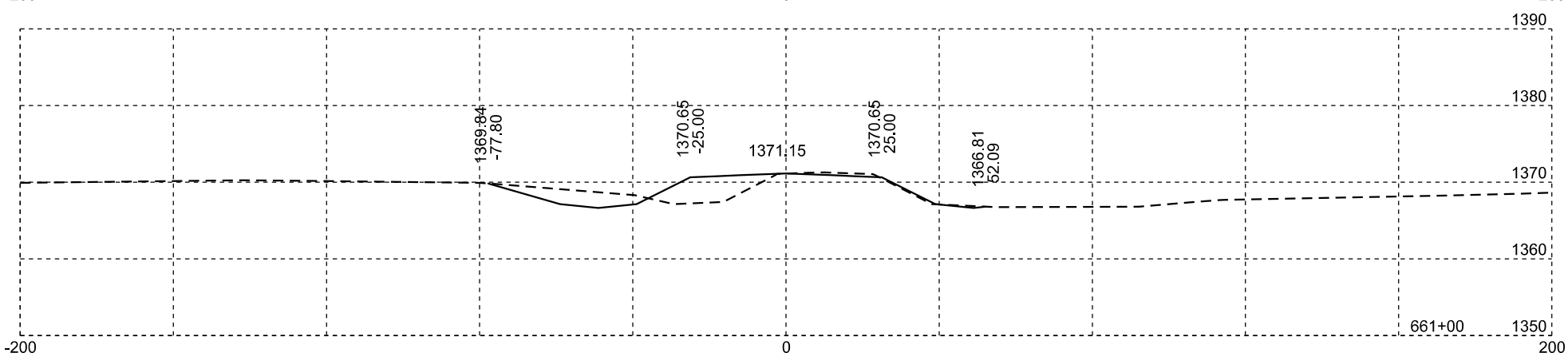
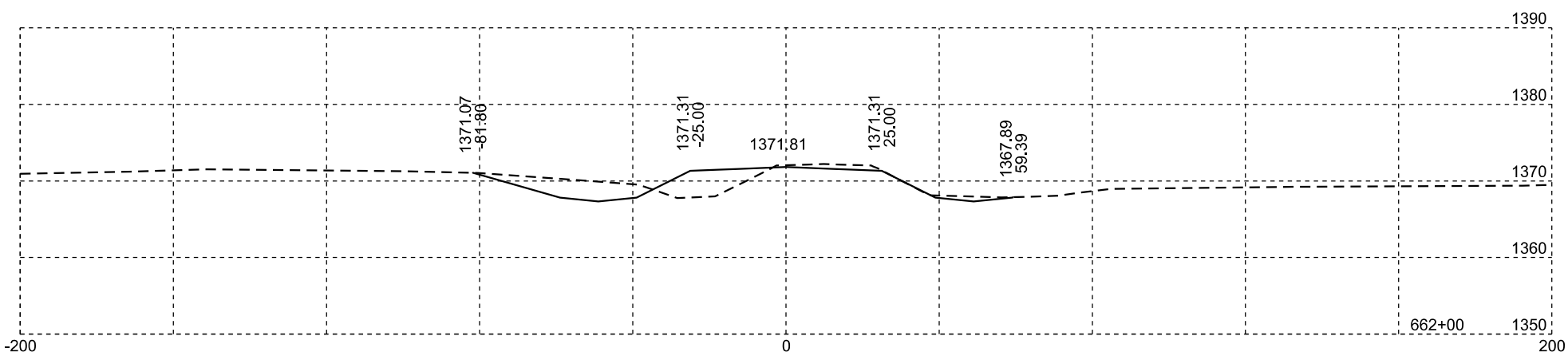
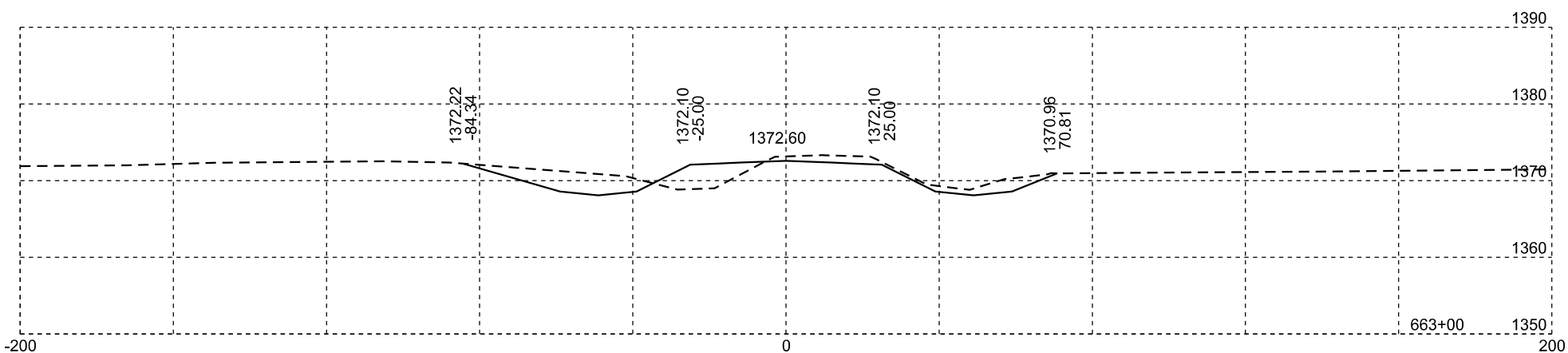
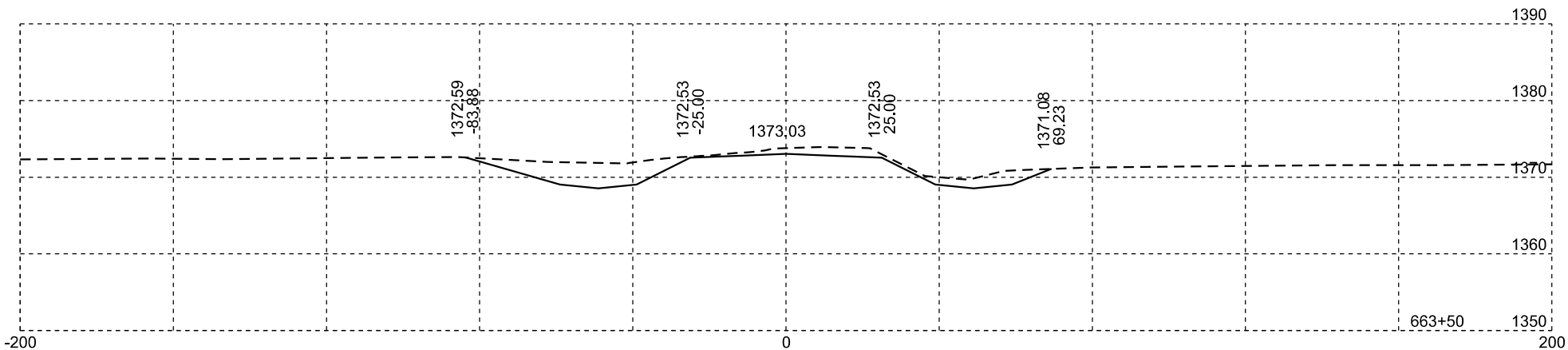
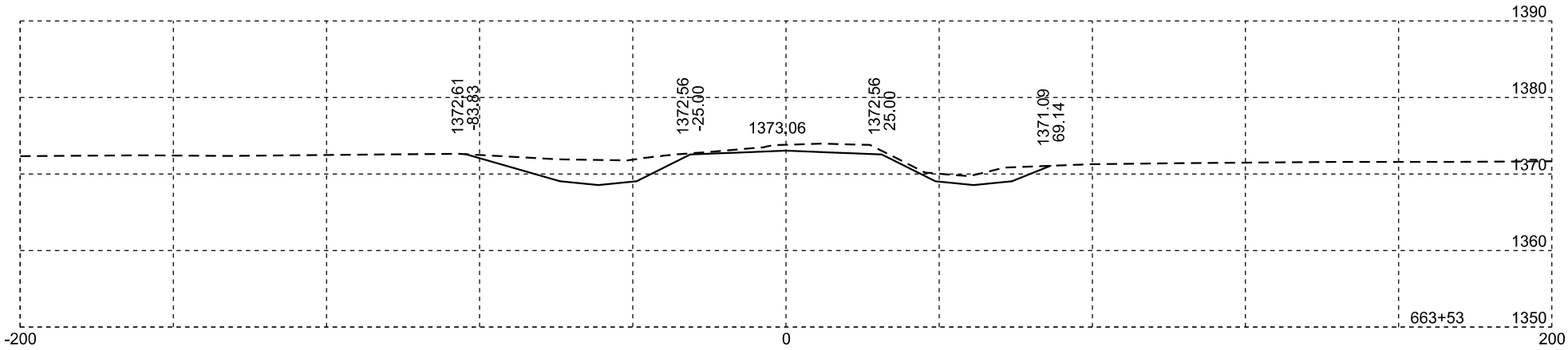
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X82	X99

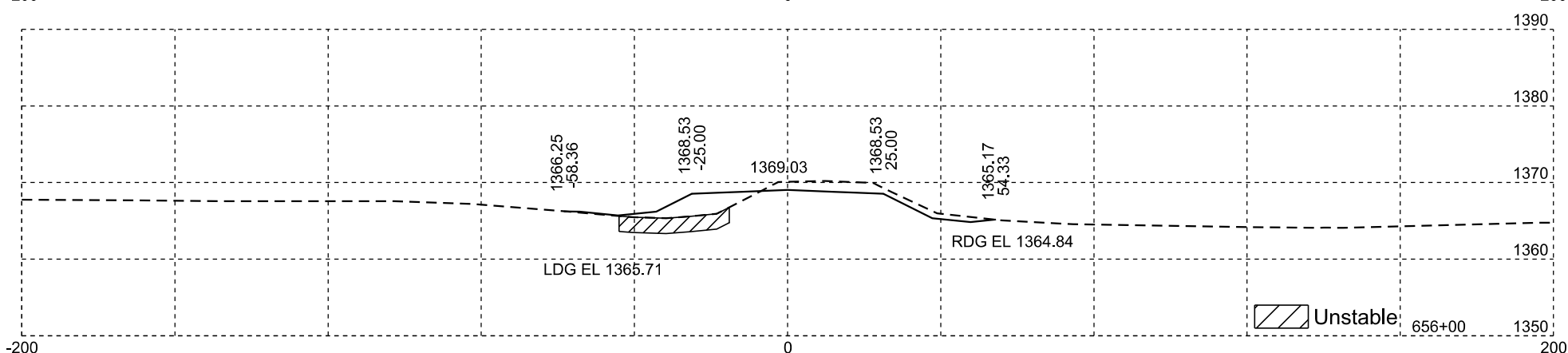
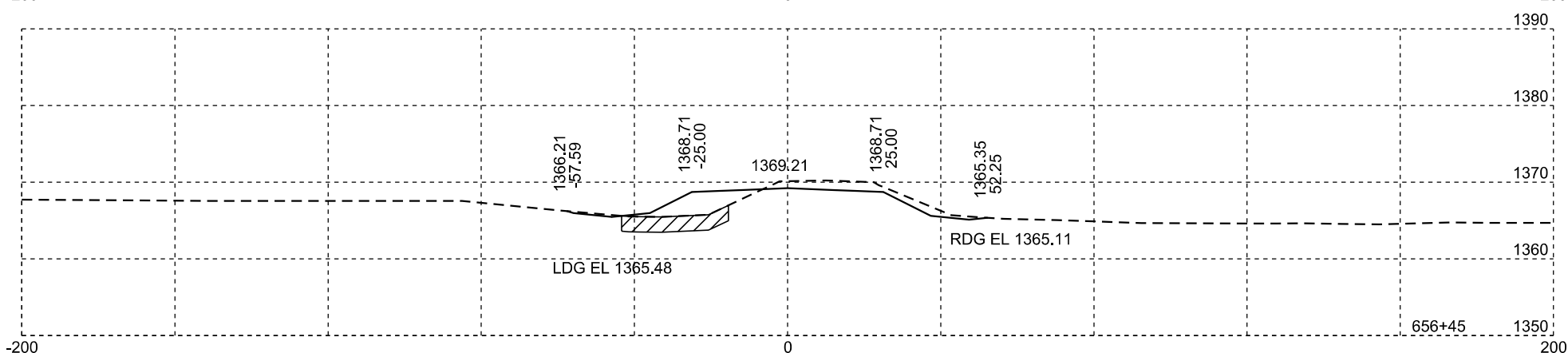
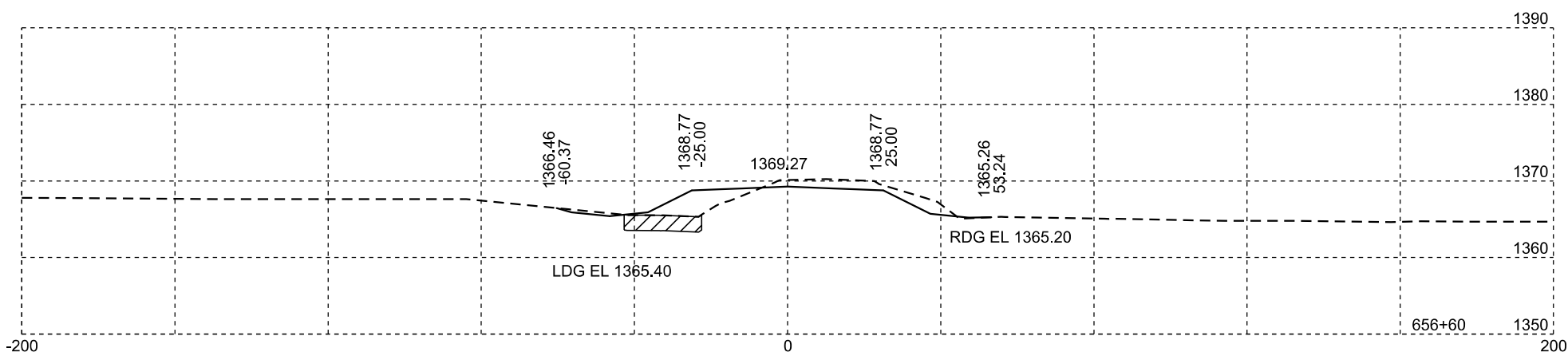
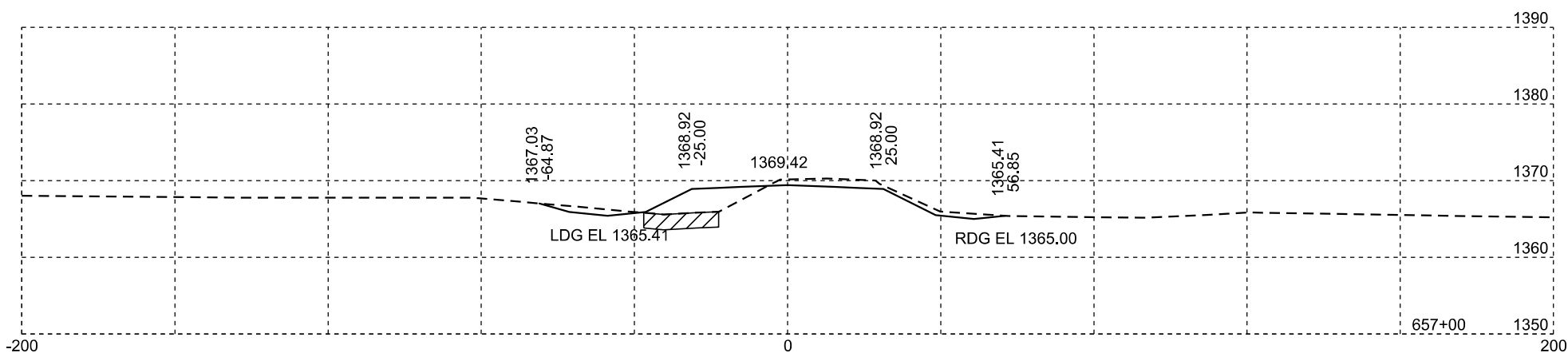
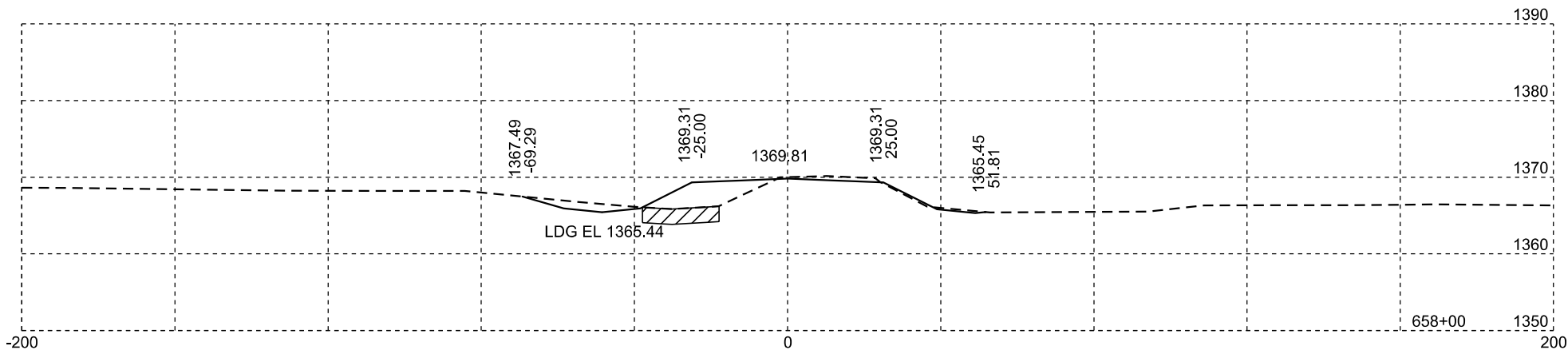
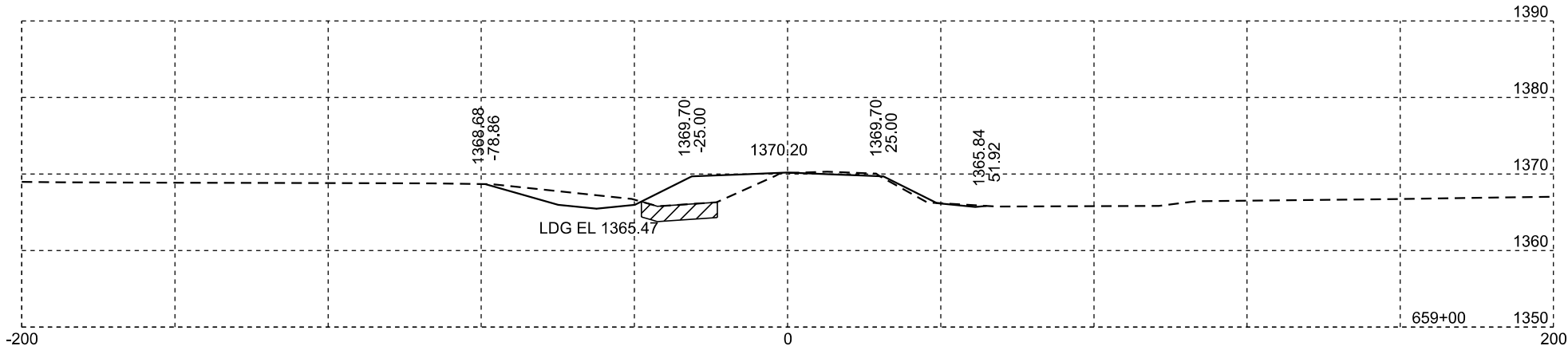


Plotting Date: 01/20/2026

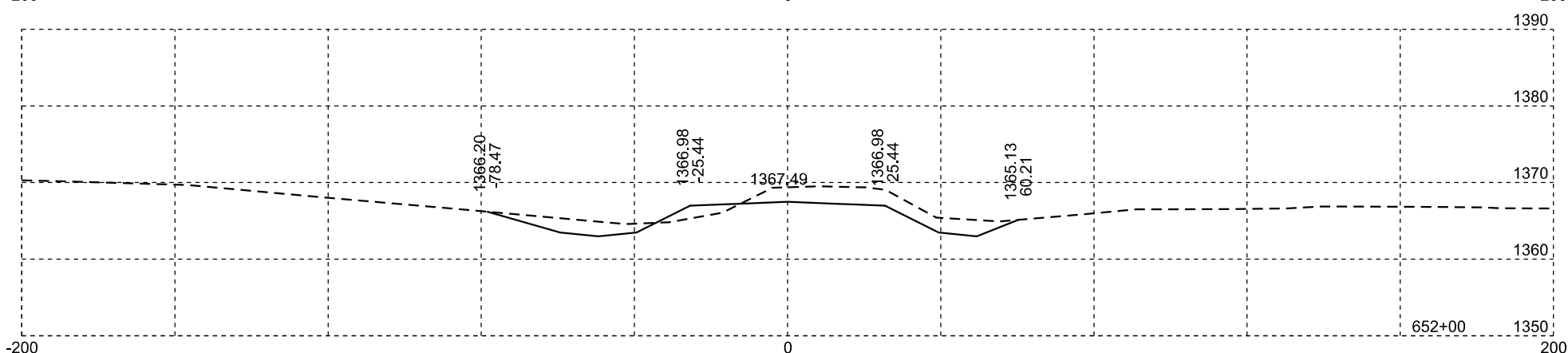
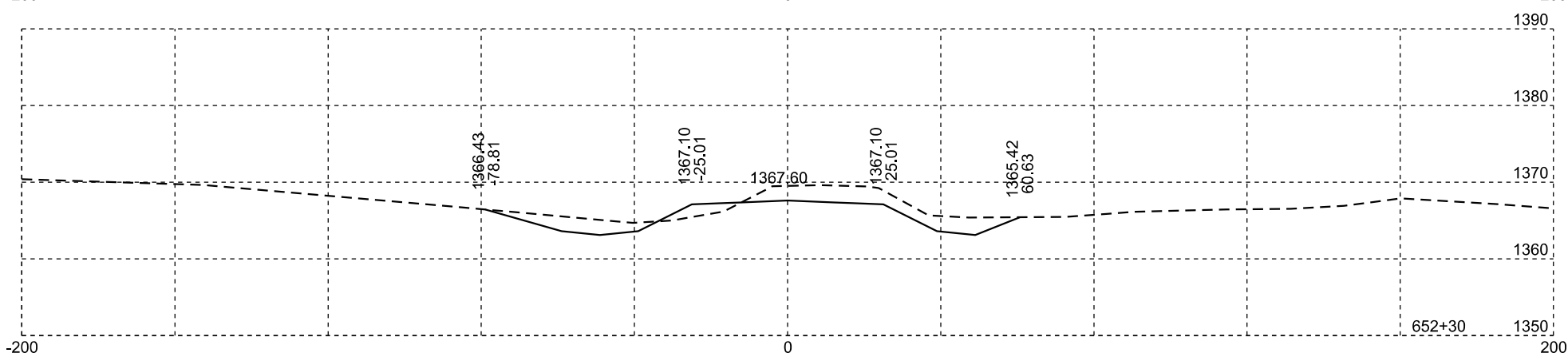
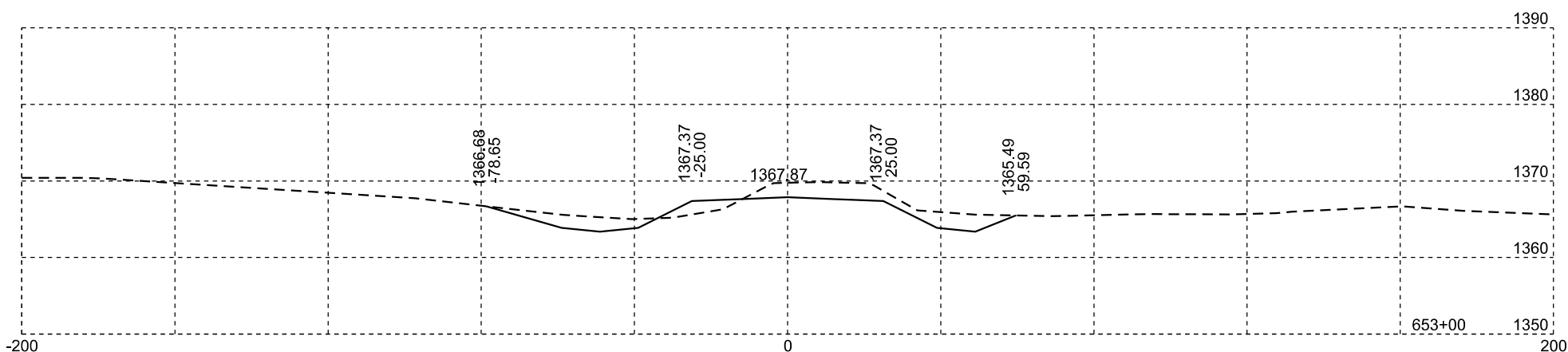
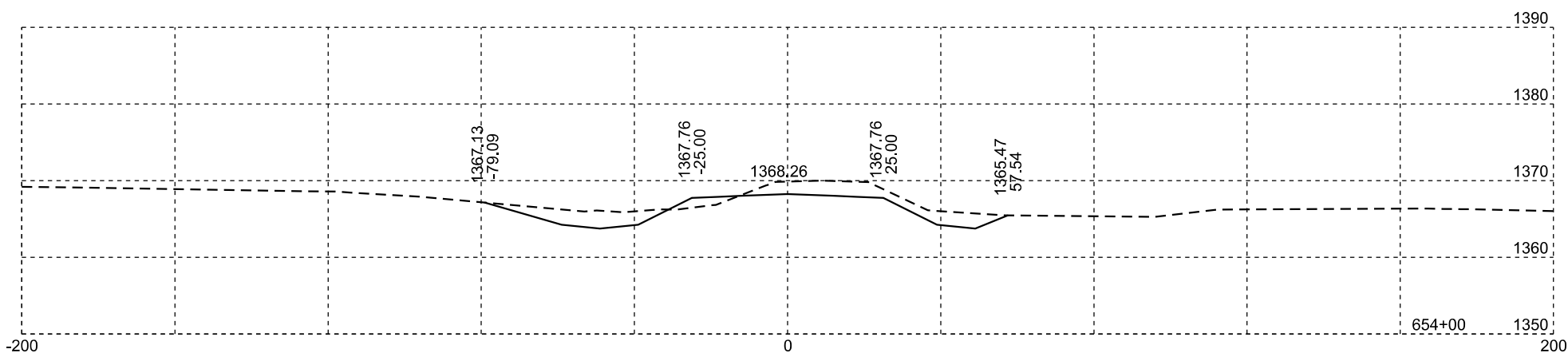
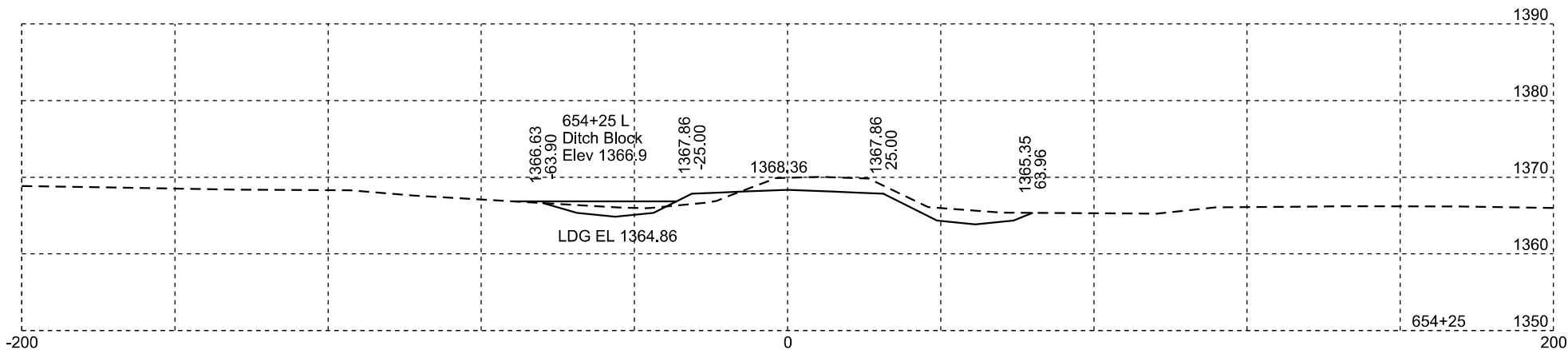
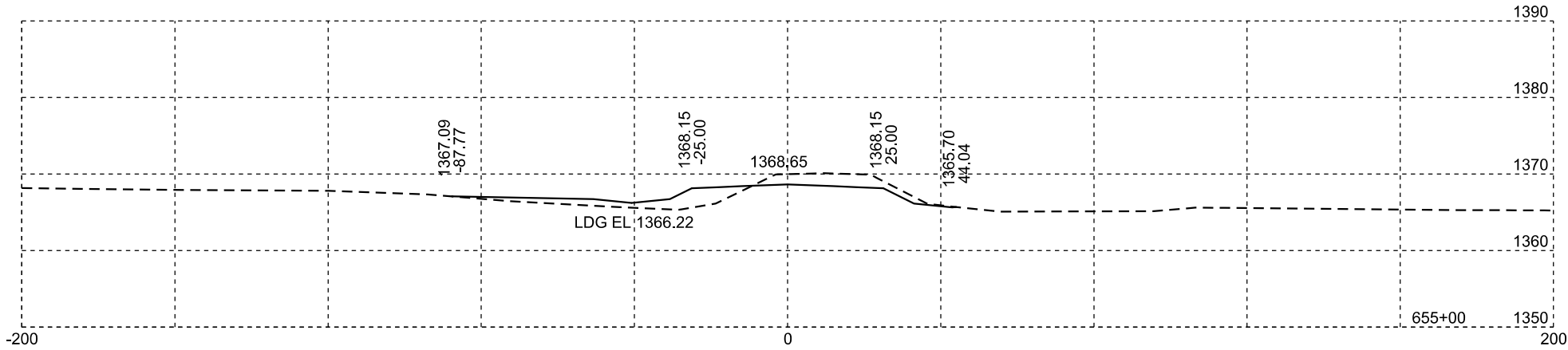
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X83	X99

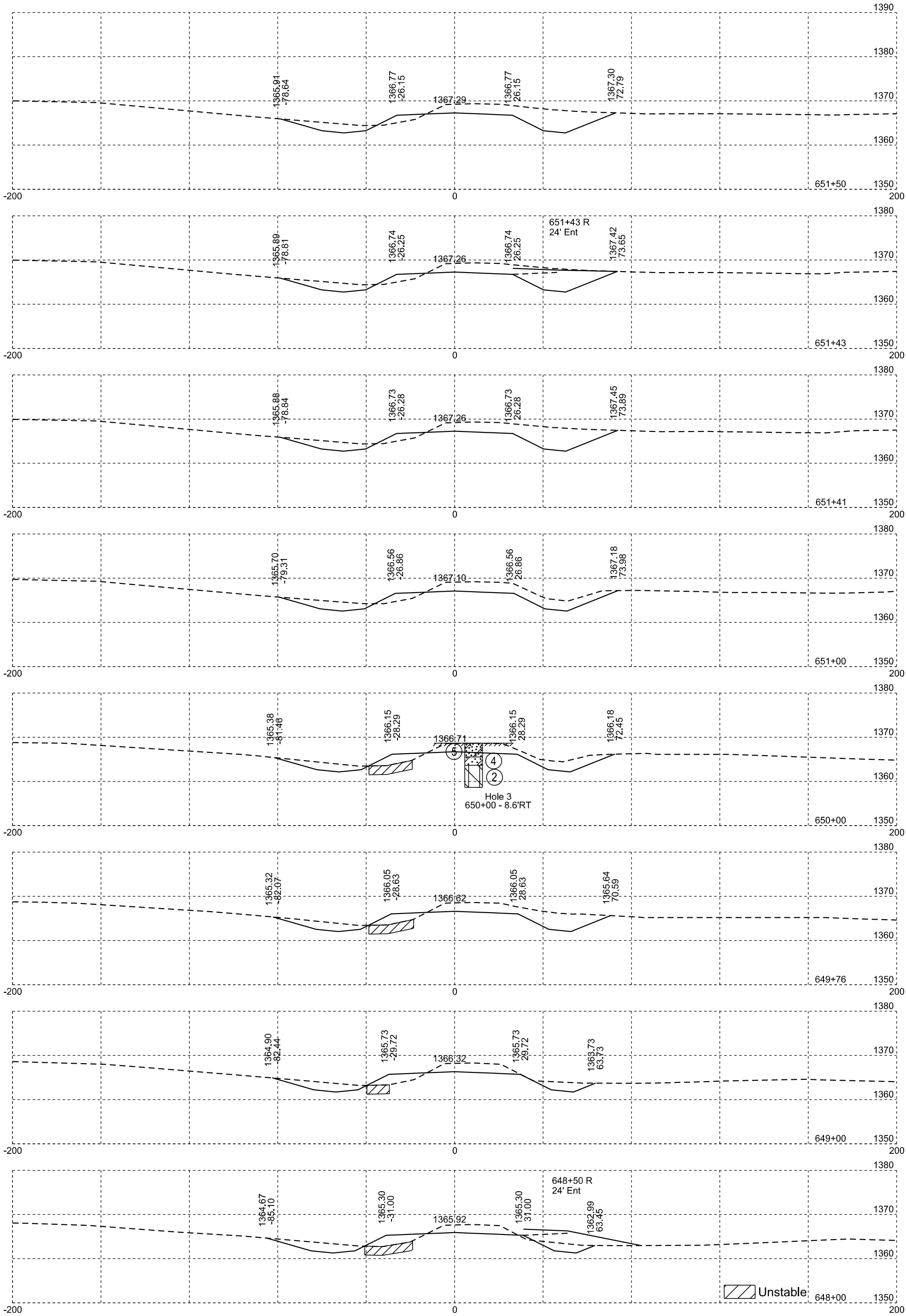






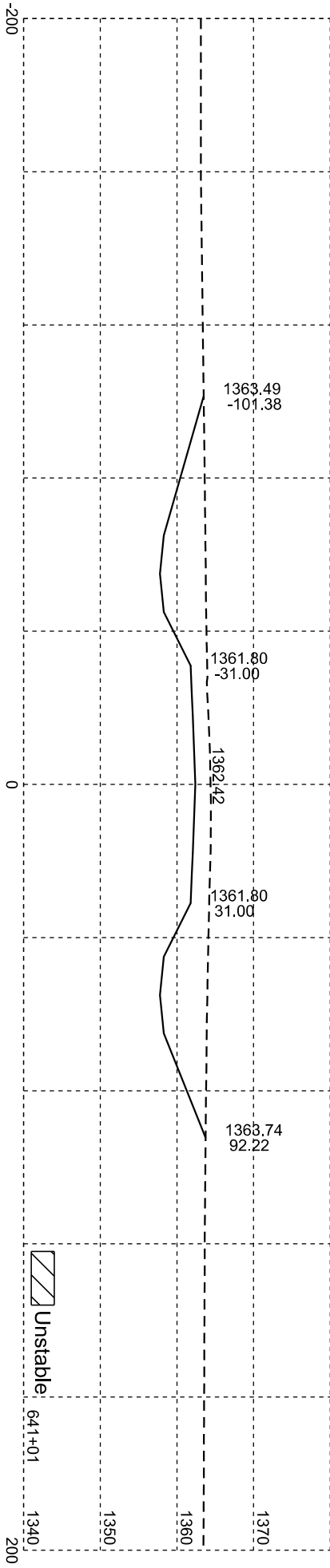
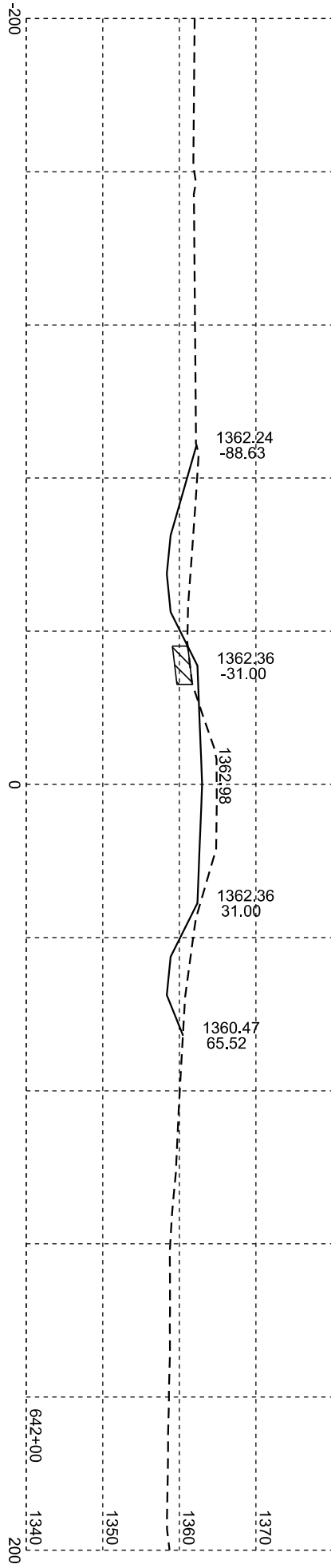
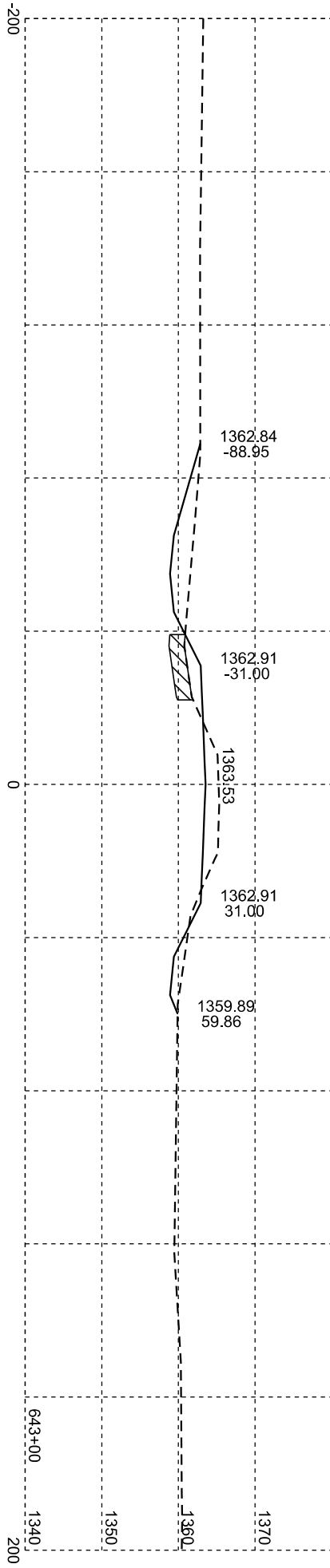
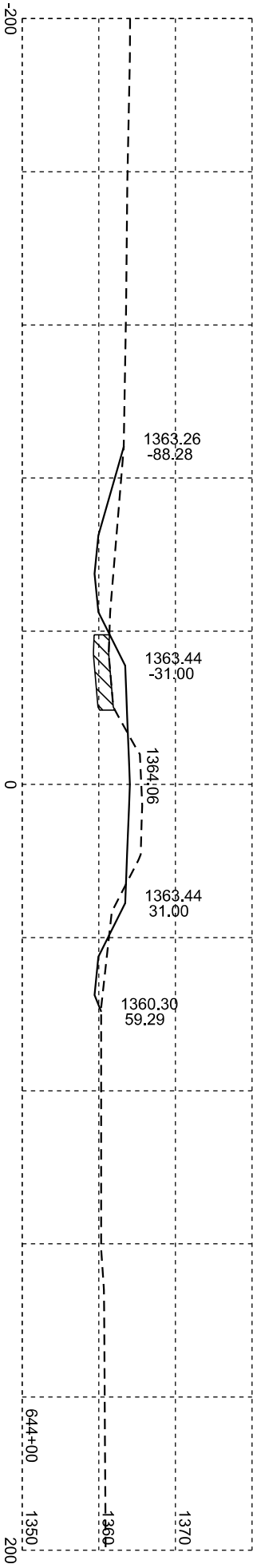
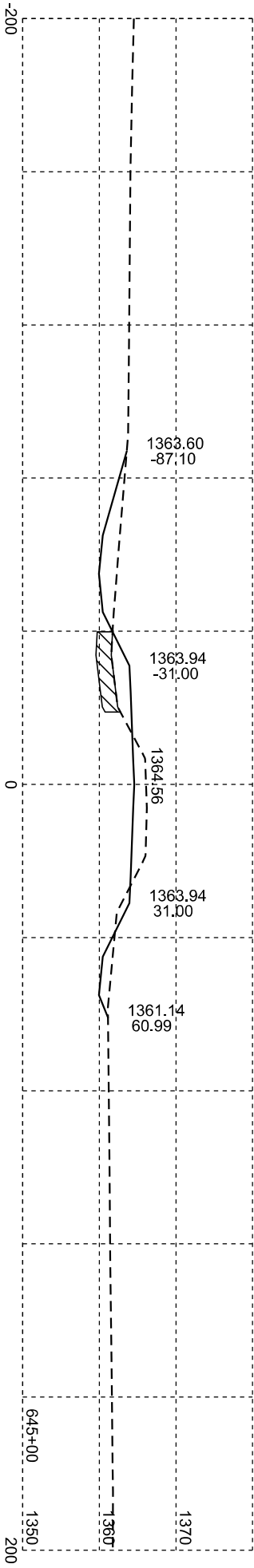
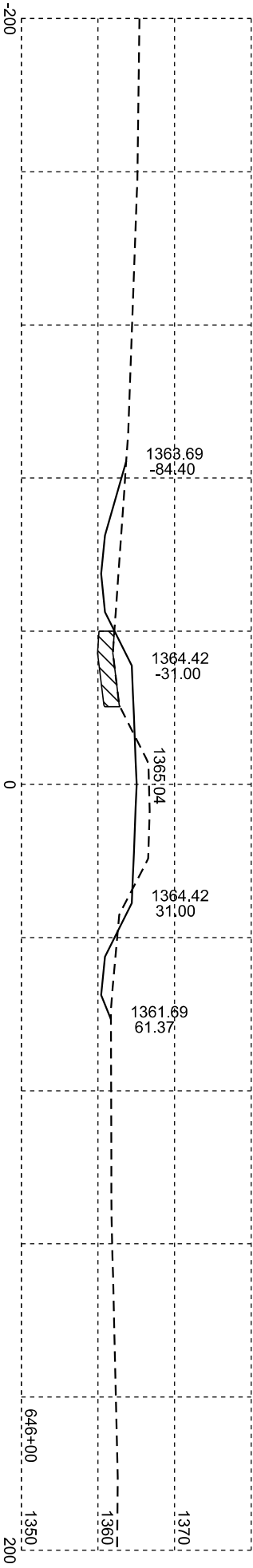
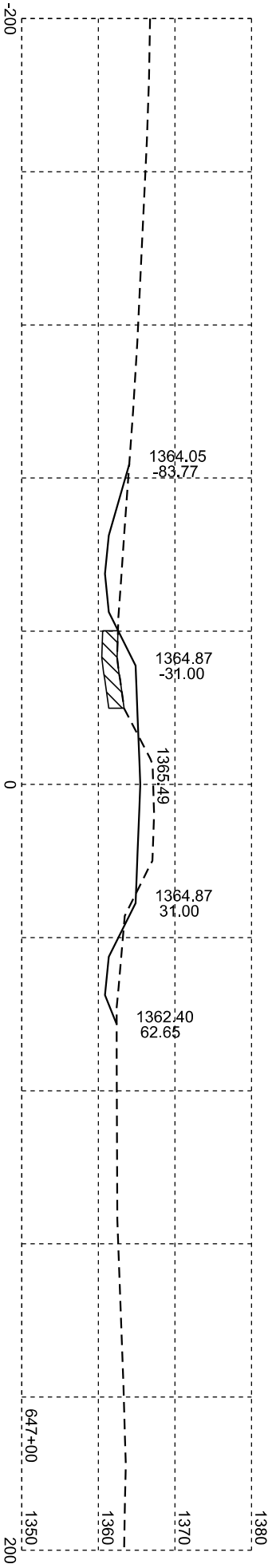
Unstable



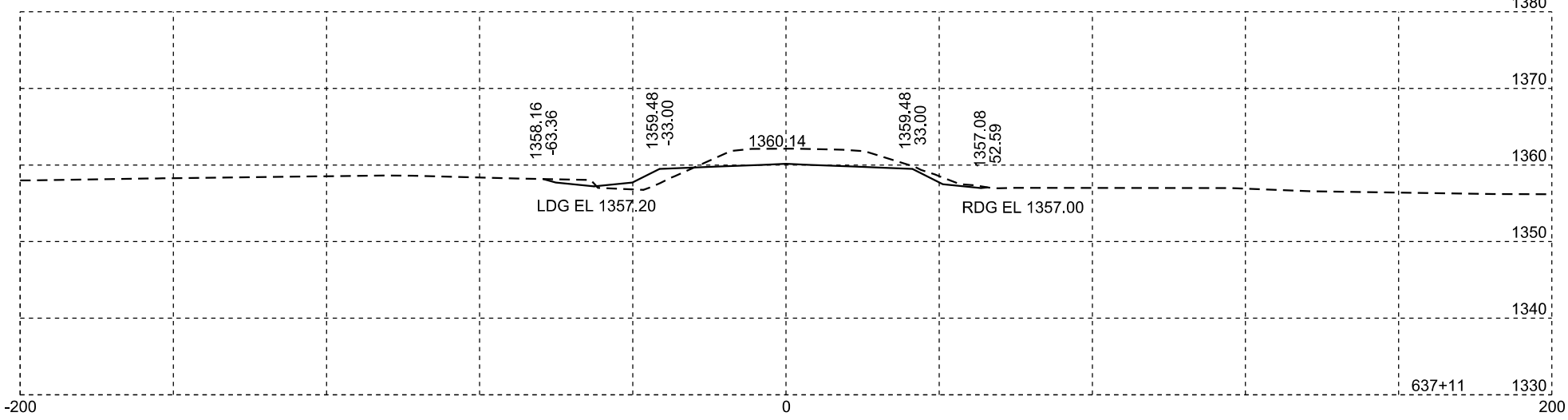
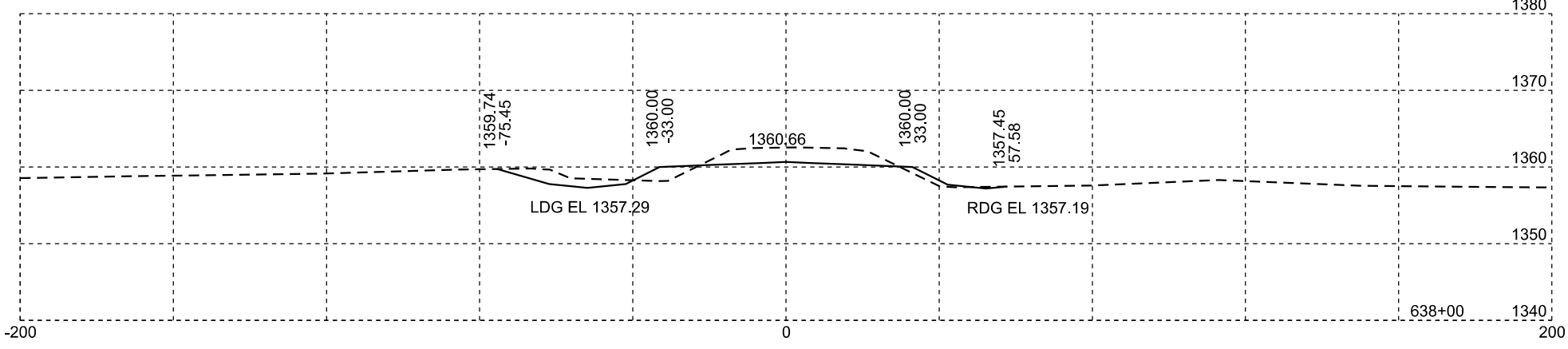
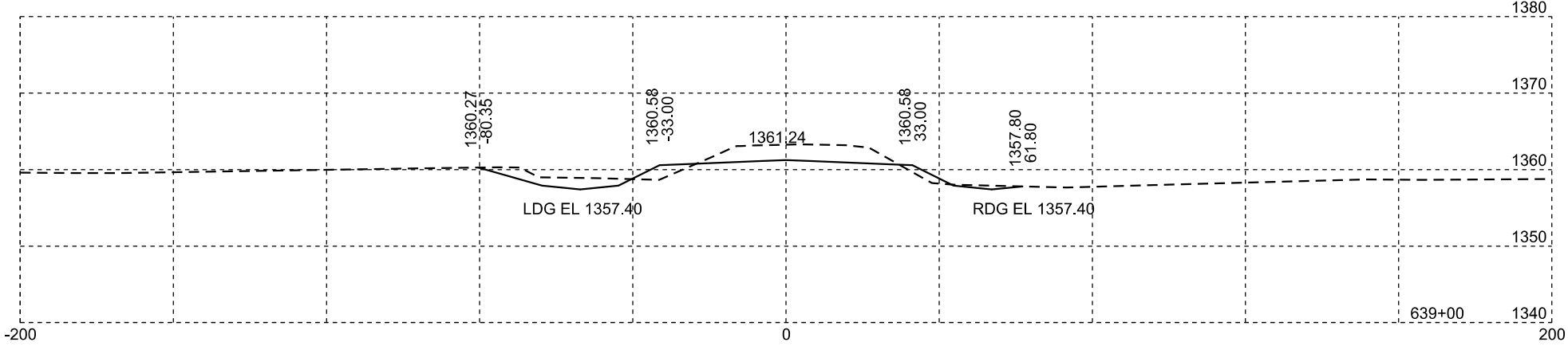
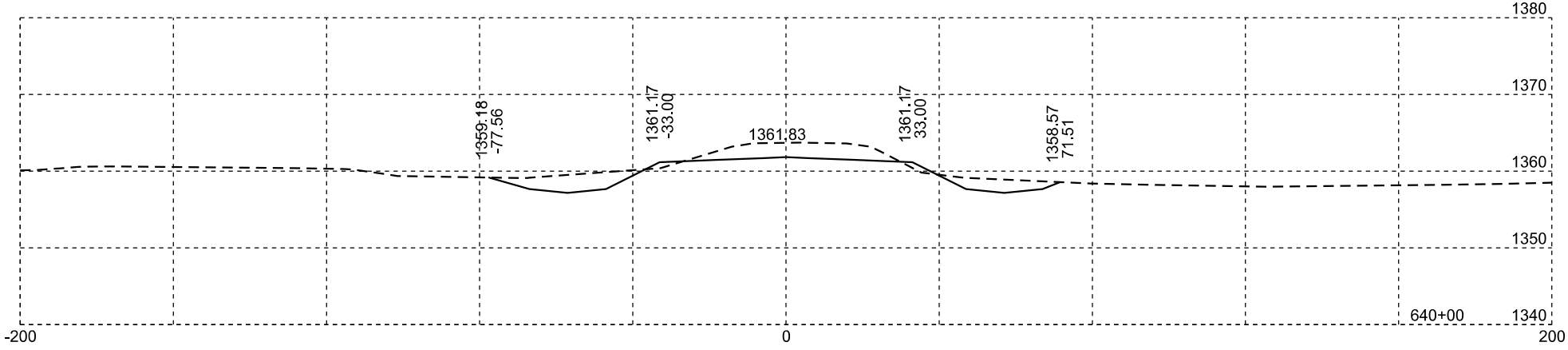
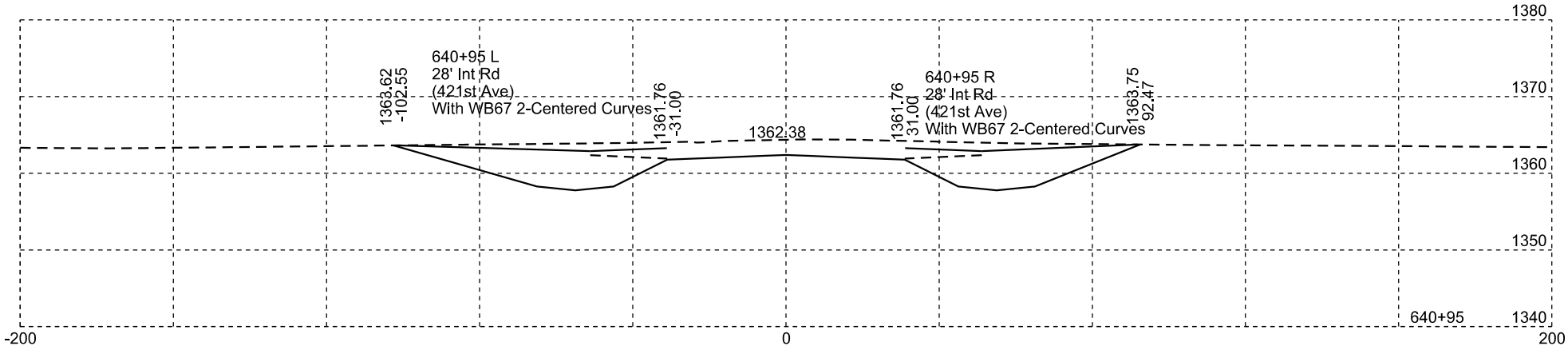
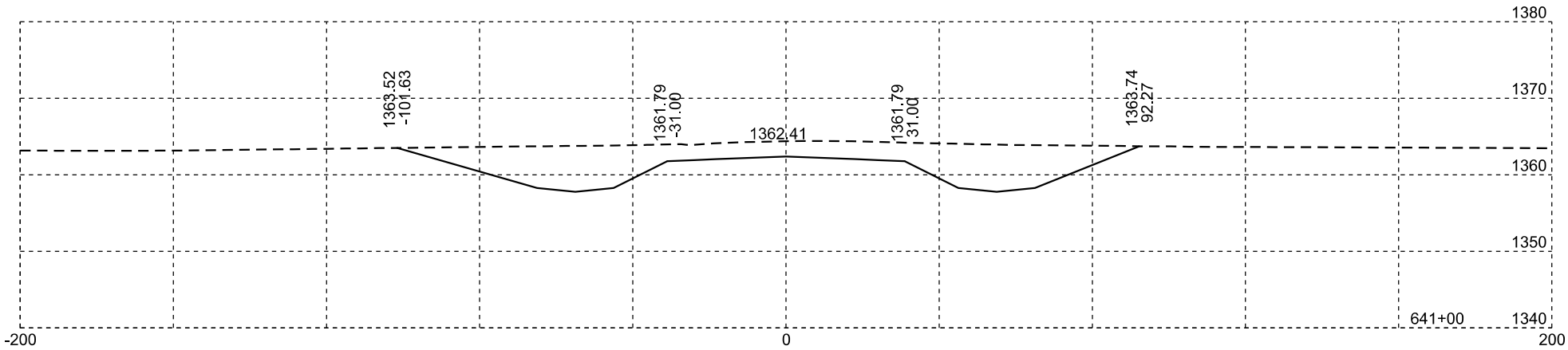


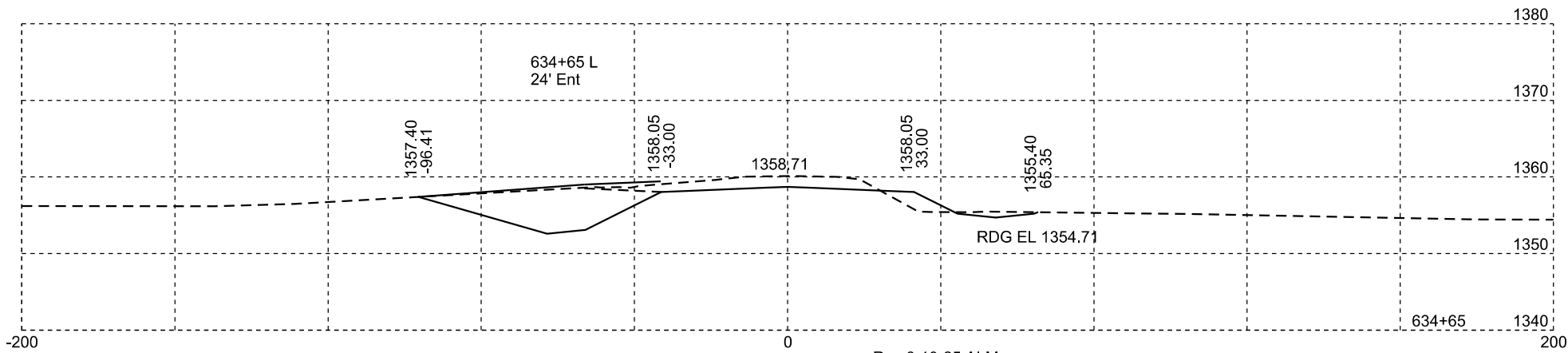
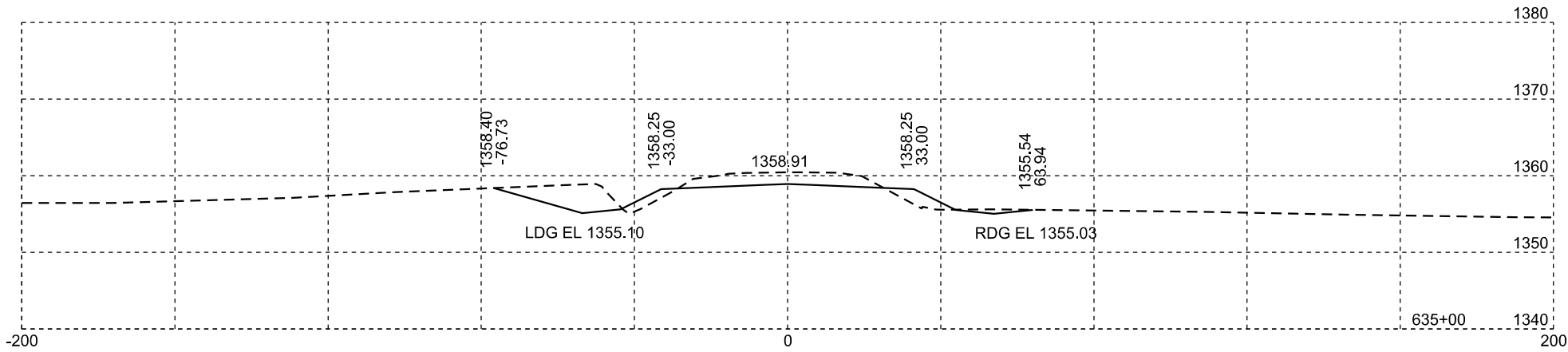
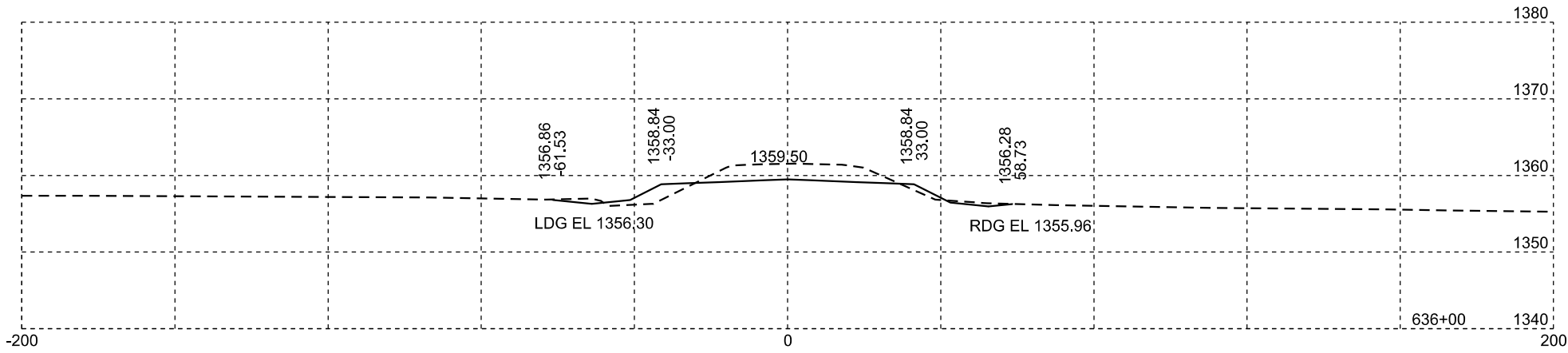
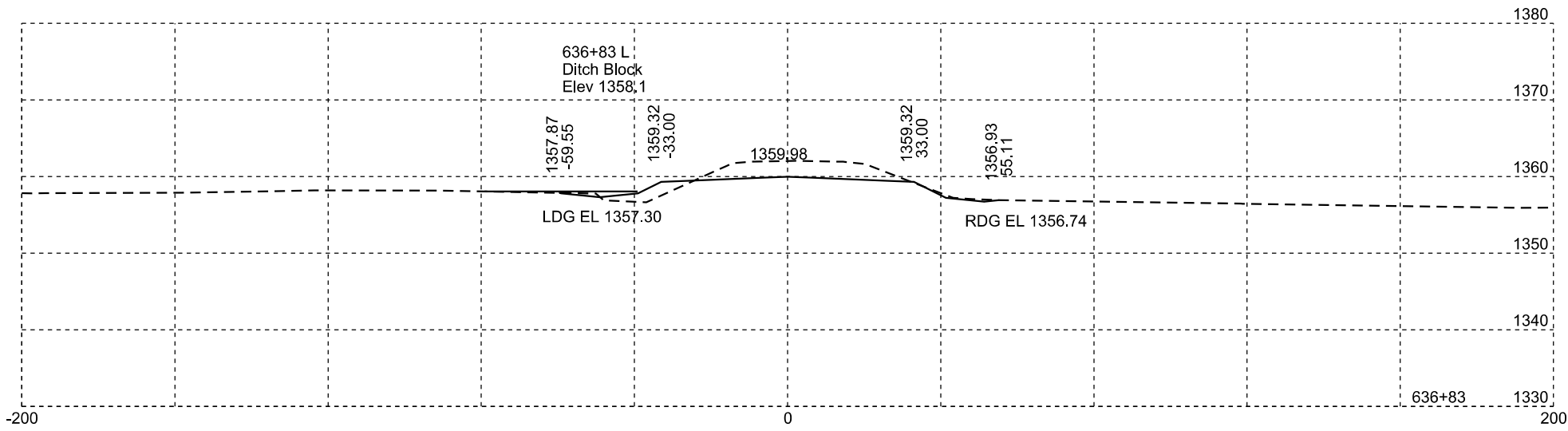
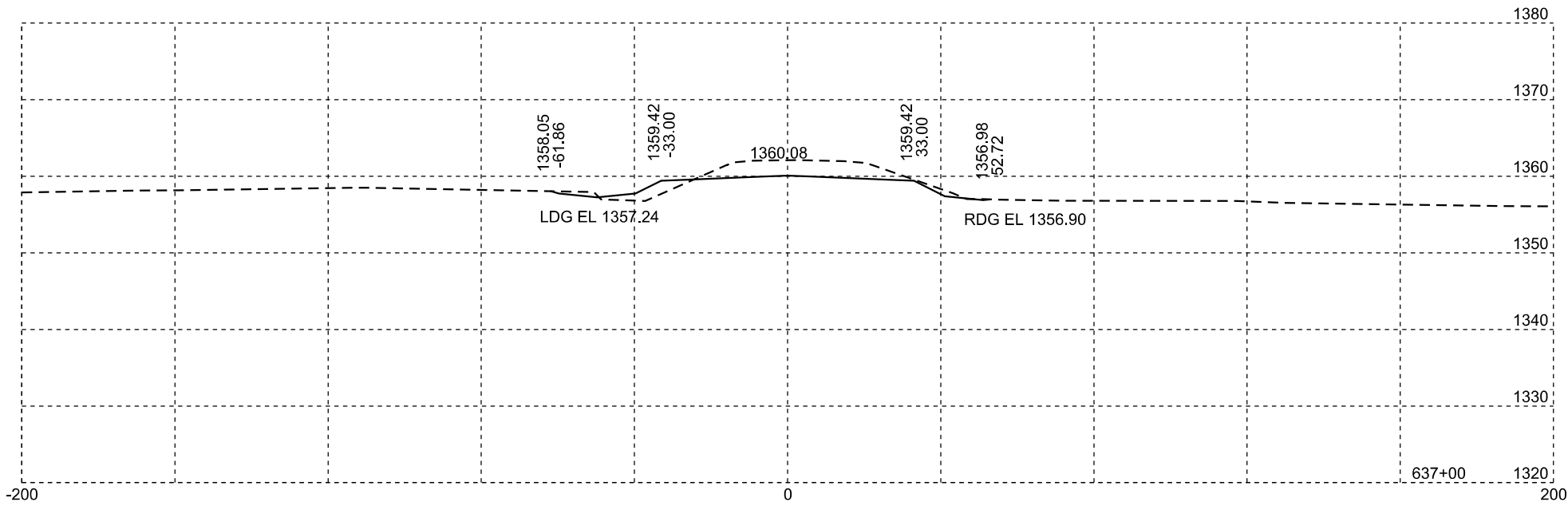
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X88	X99



Unstable

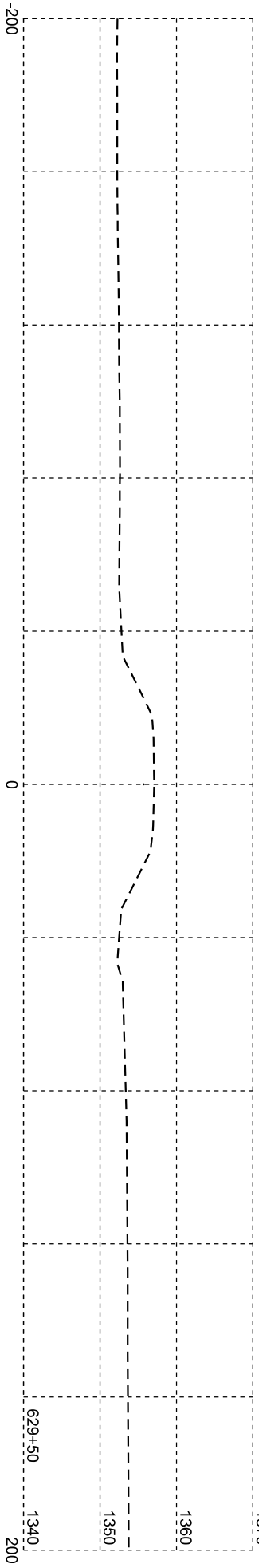
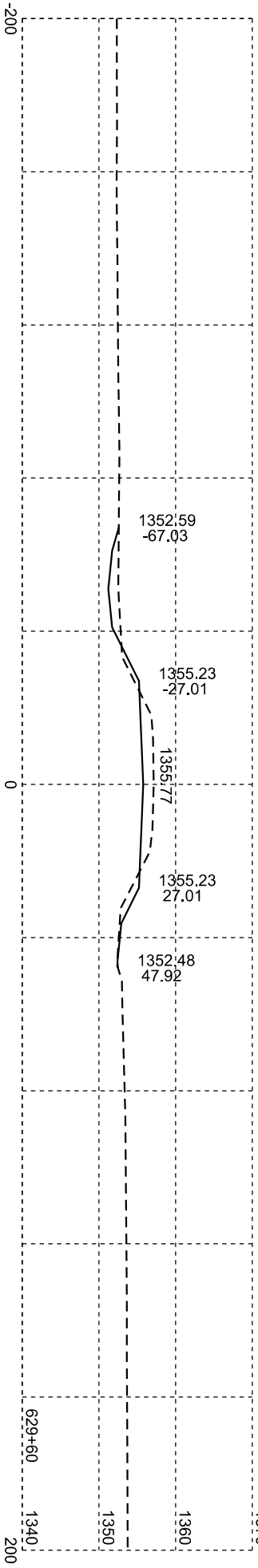
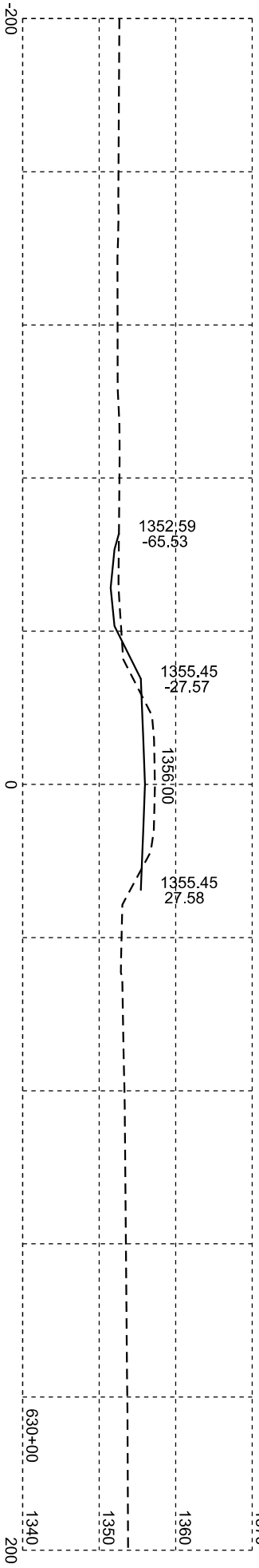
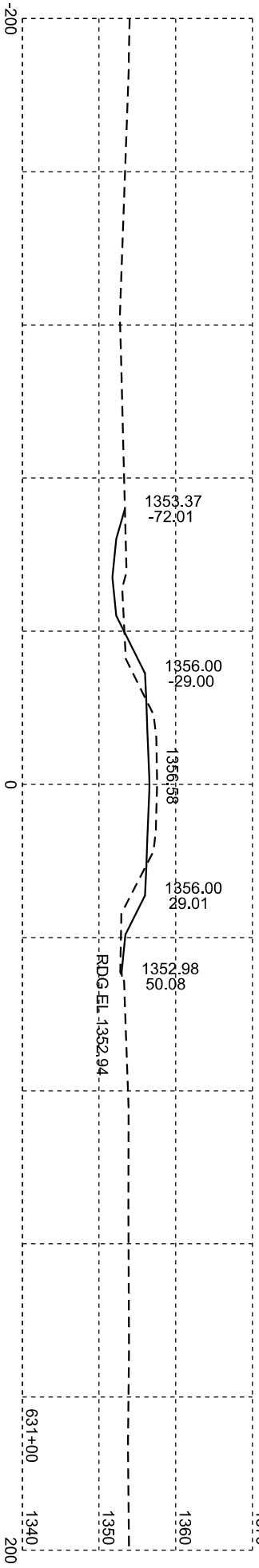
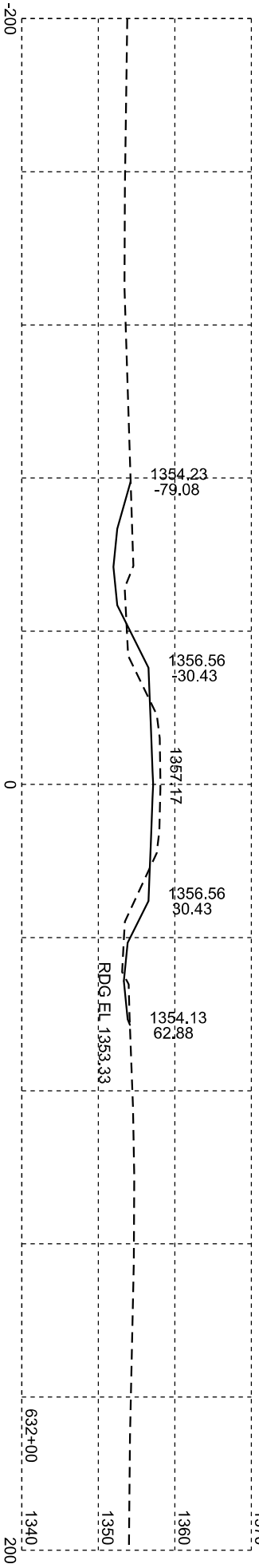
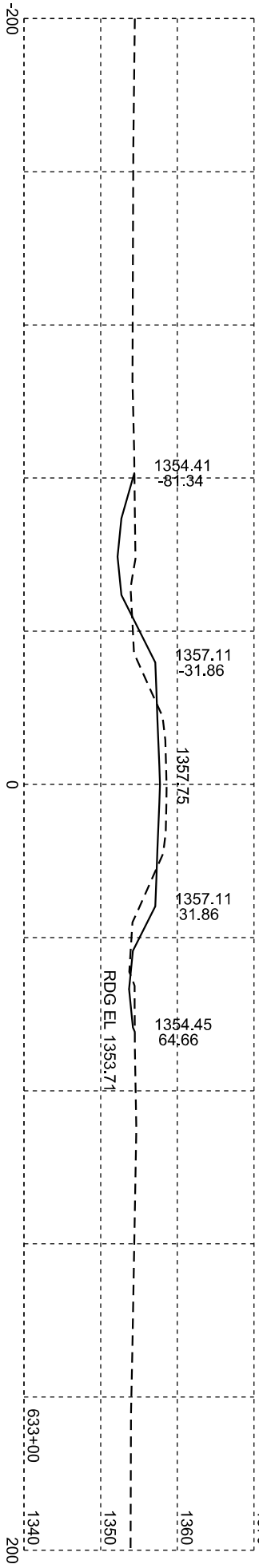
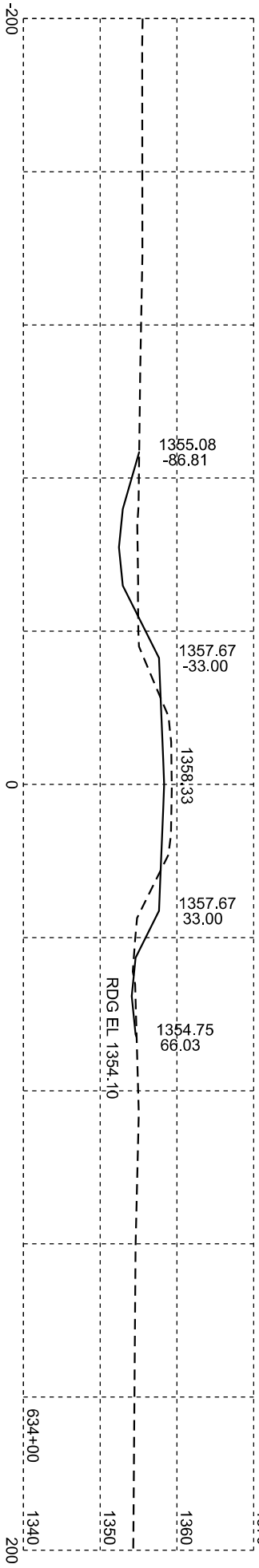
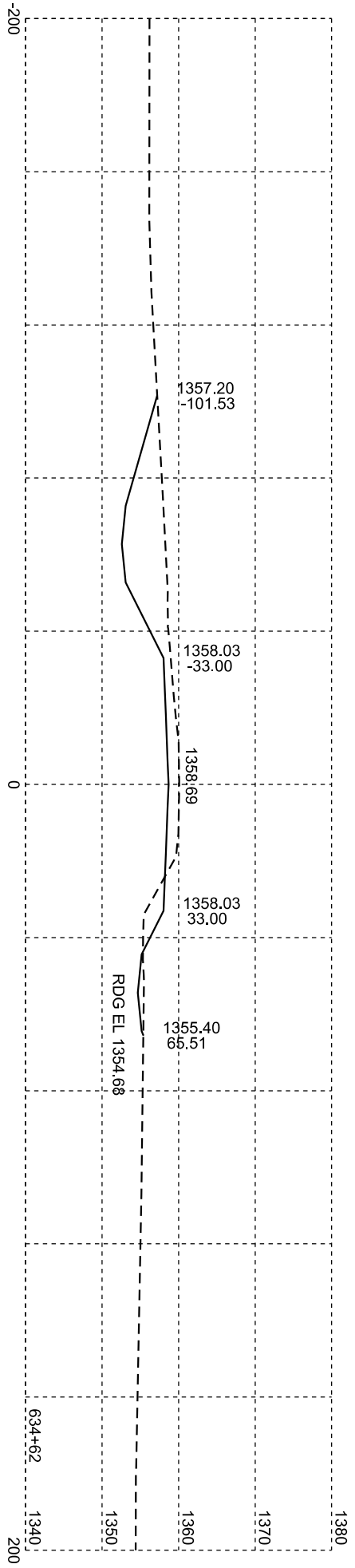




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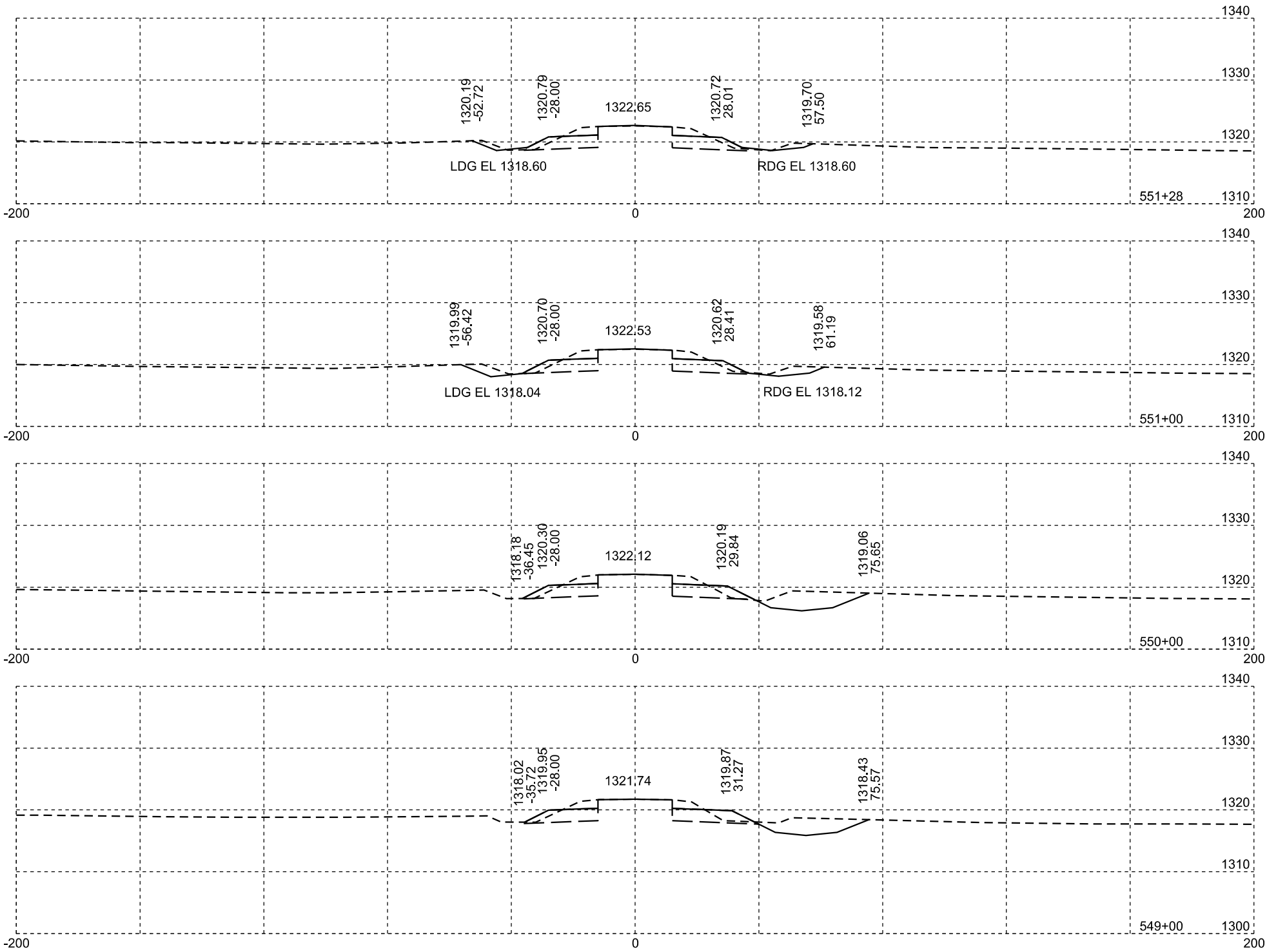
Plotting Date: 01/20/2026

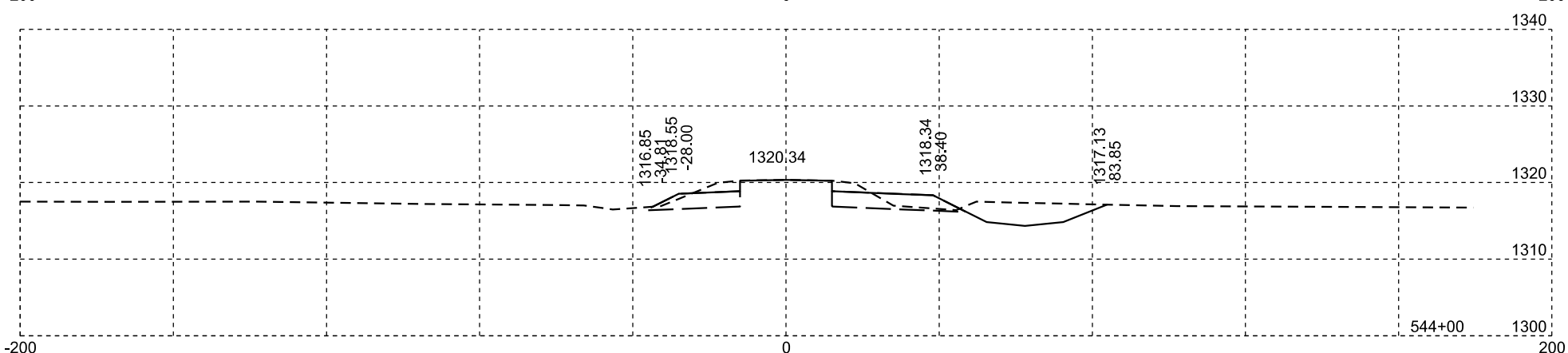
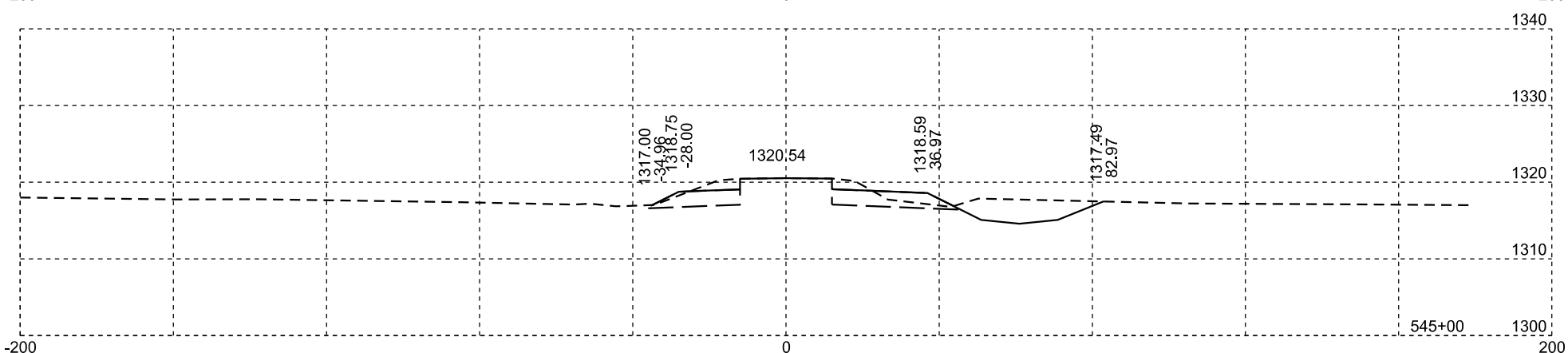
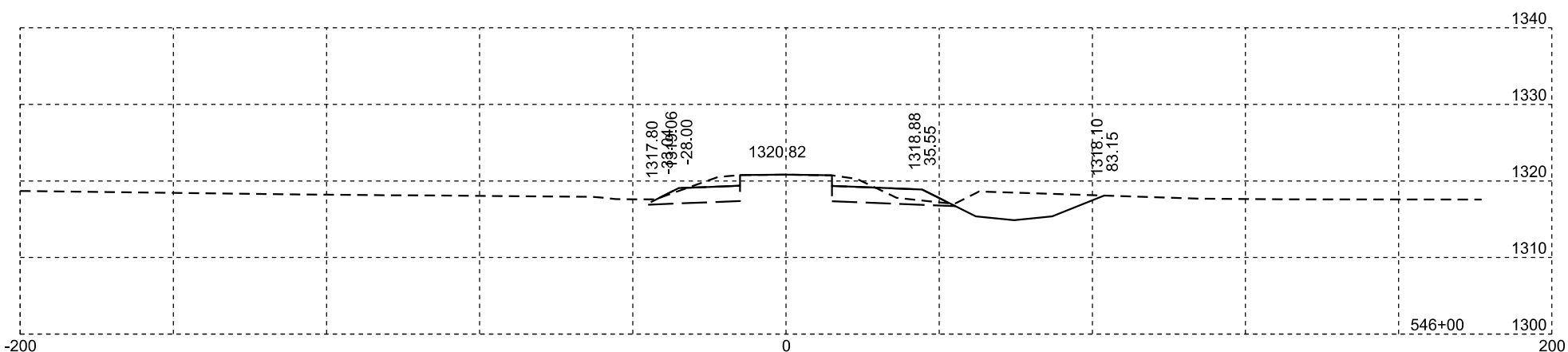
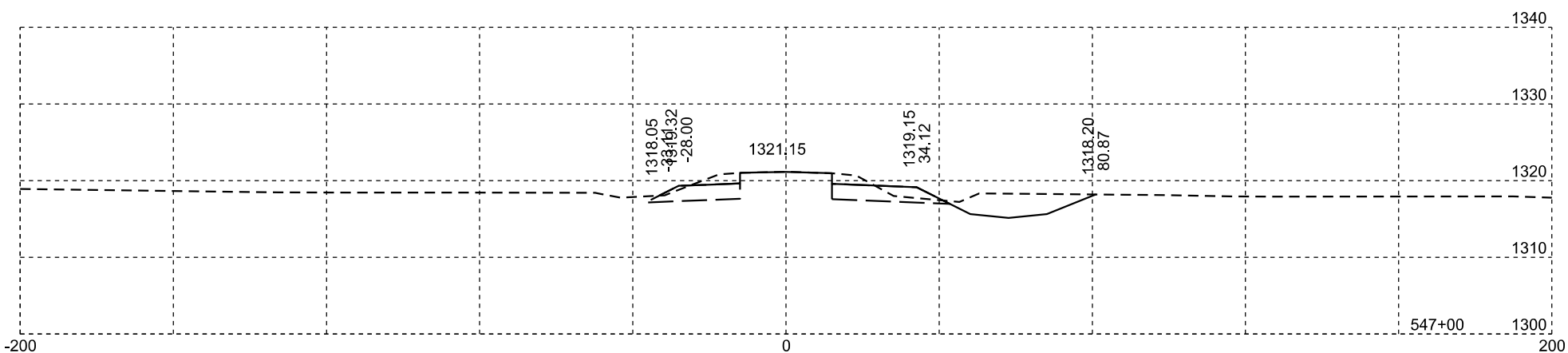
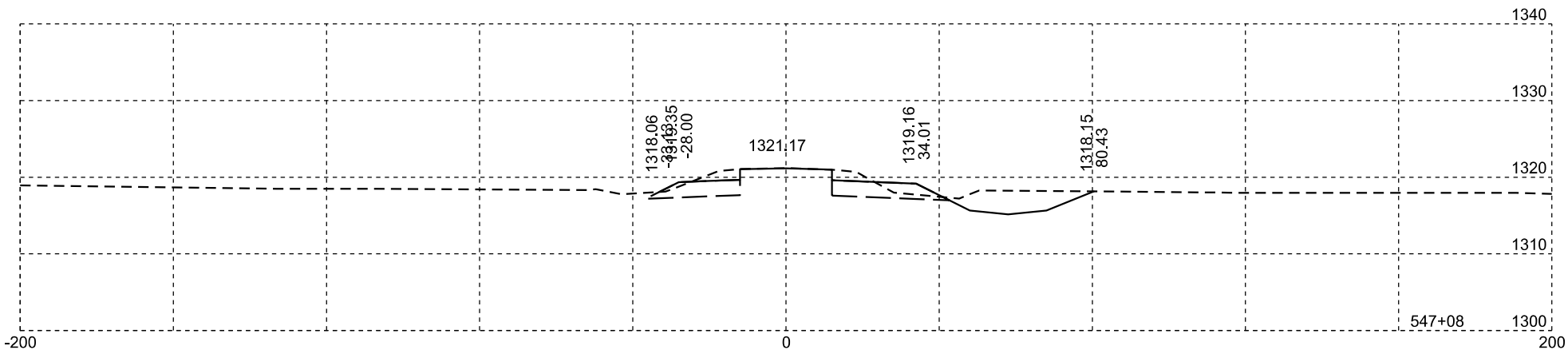
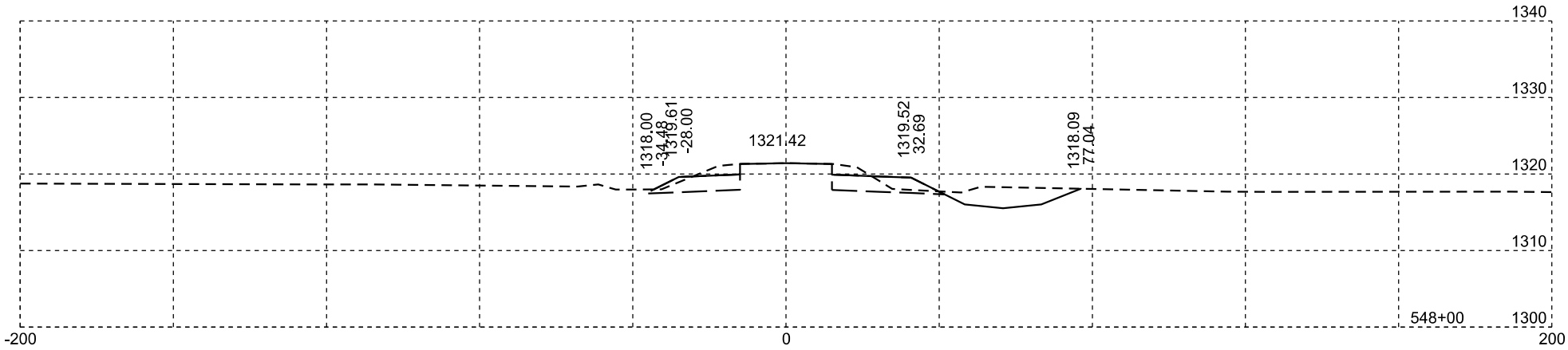
STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X91	X99

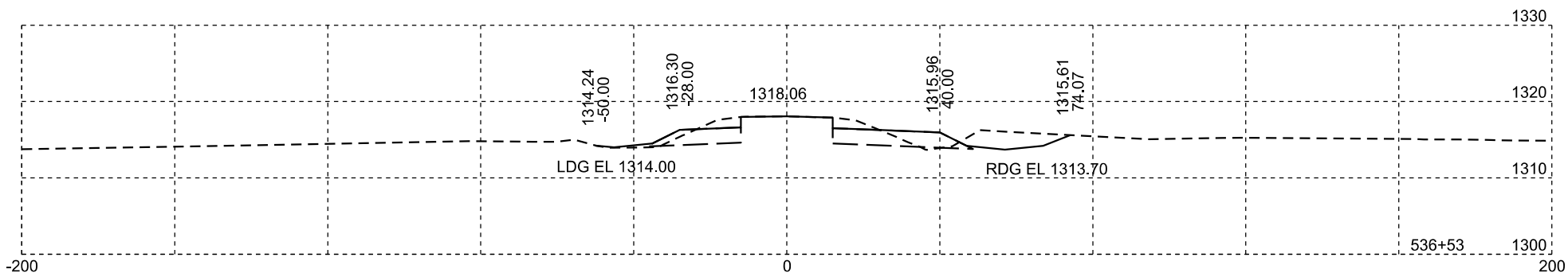
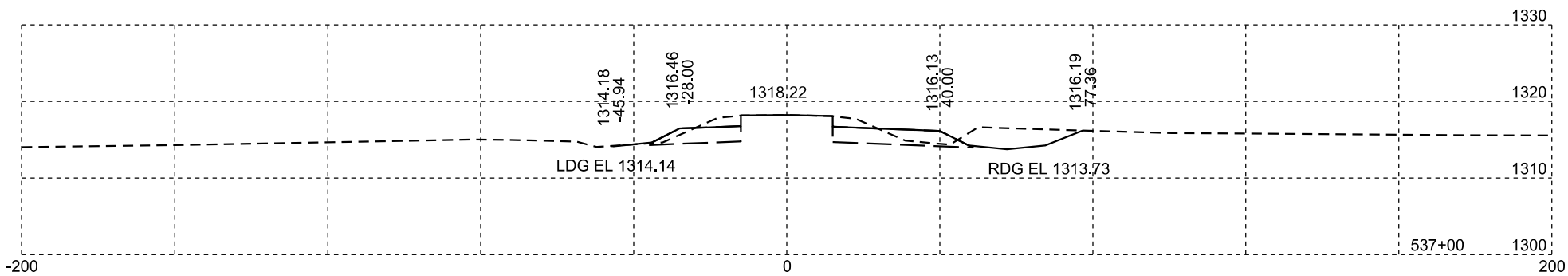
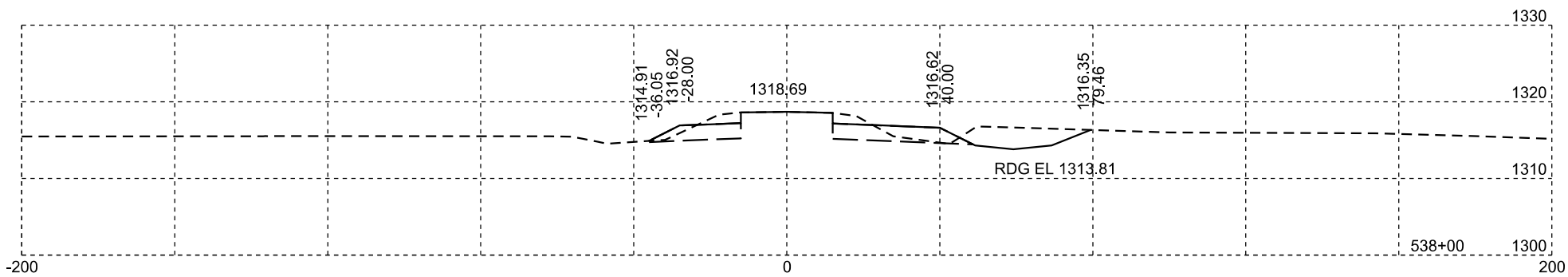
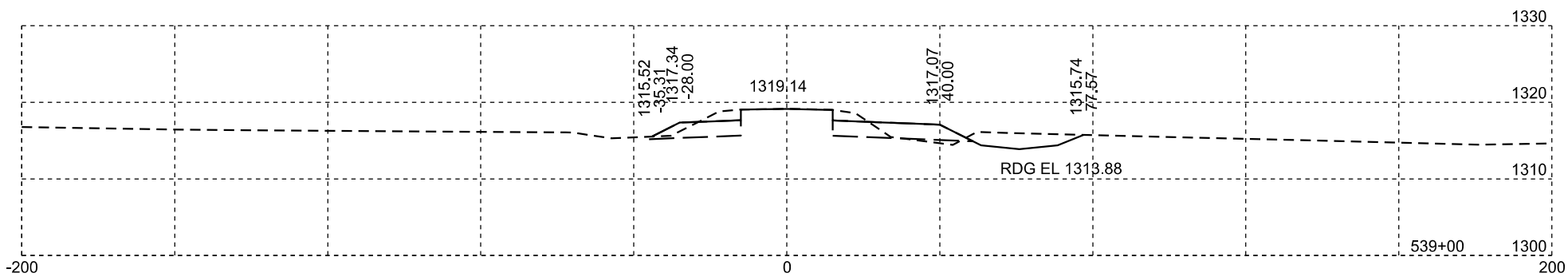
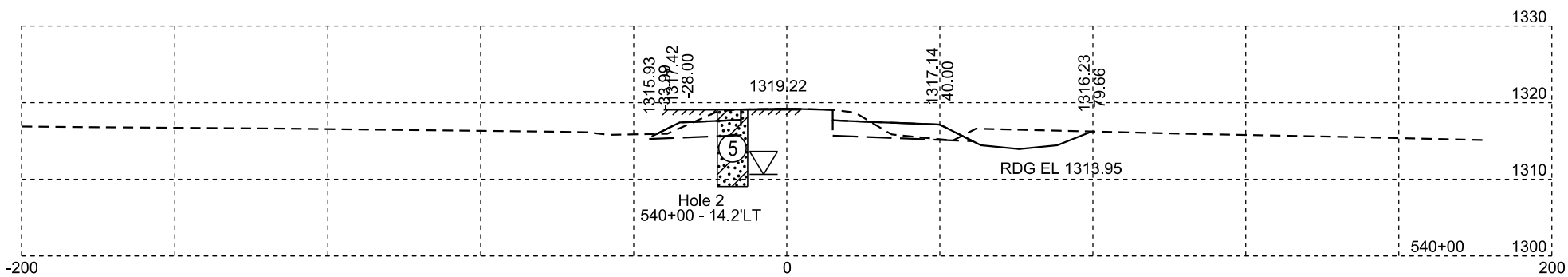
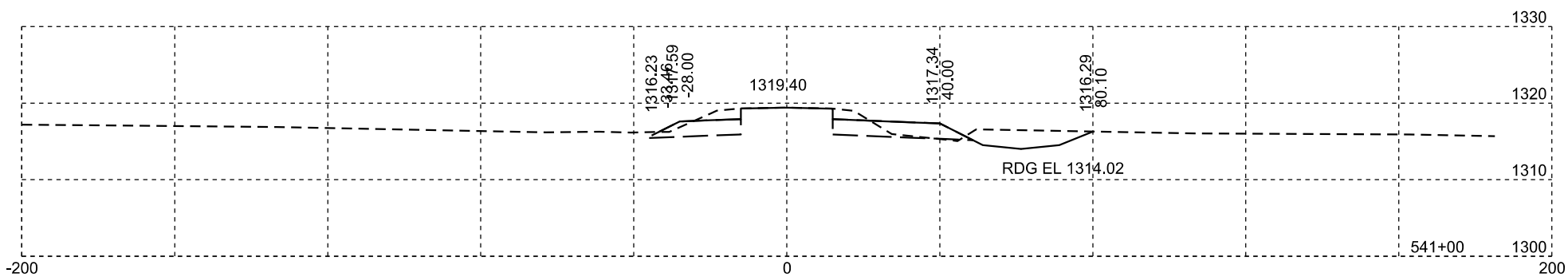
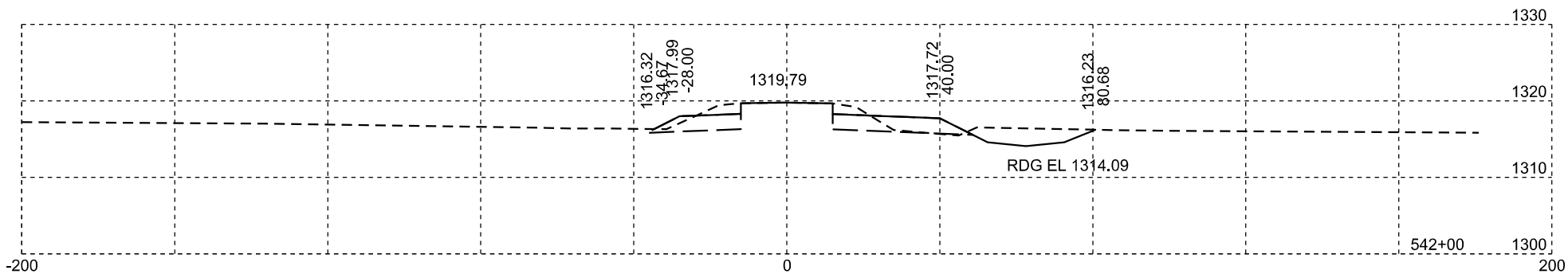
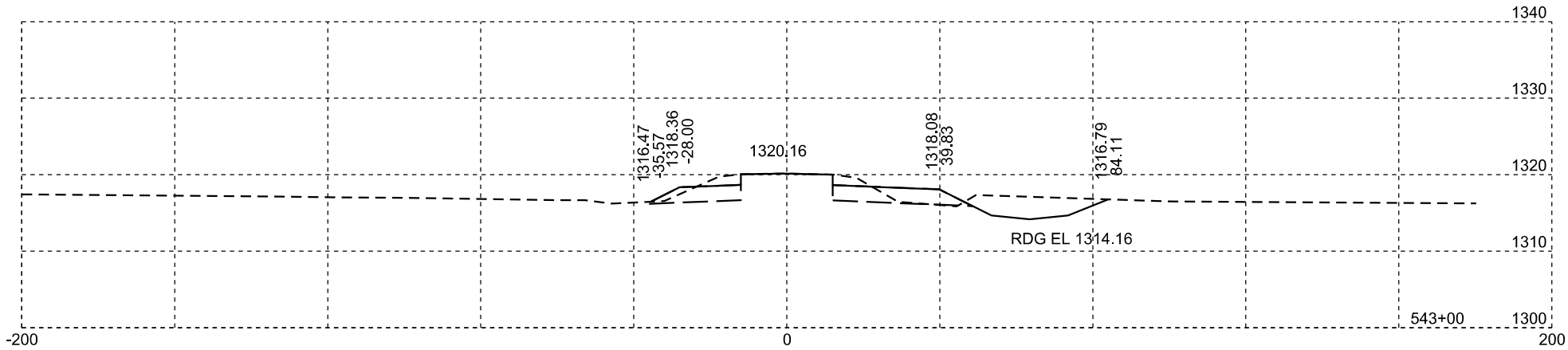


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STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X92	X99

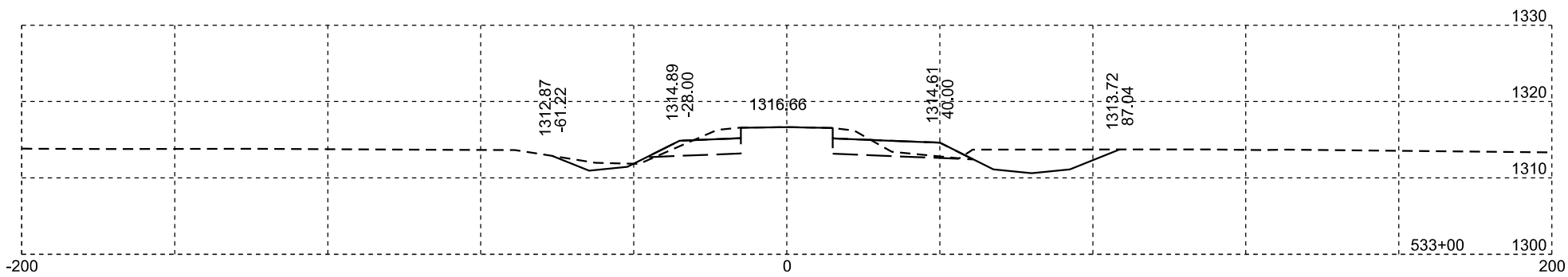
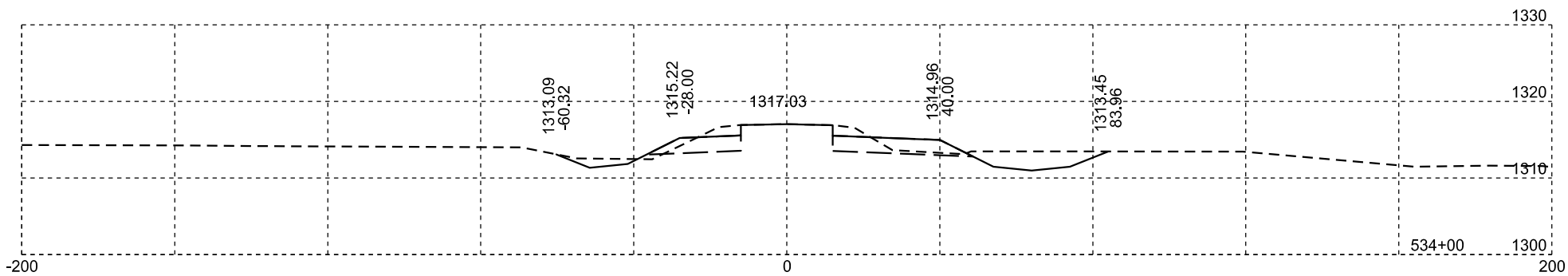
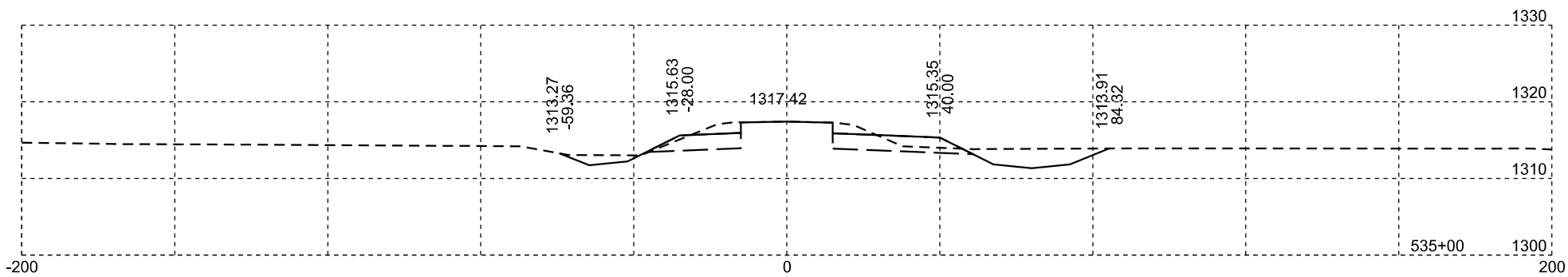
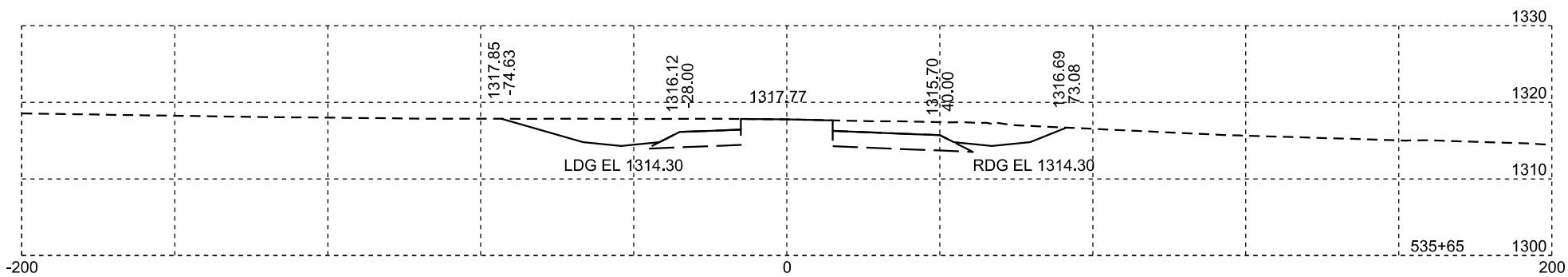
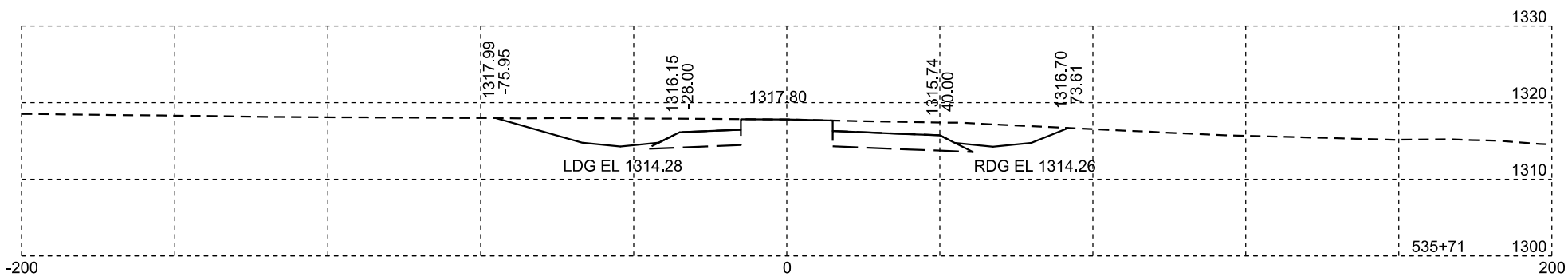
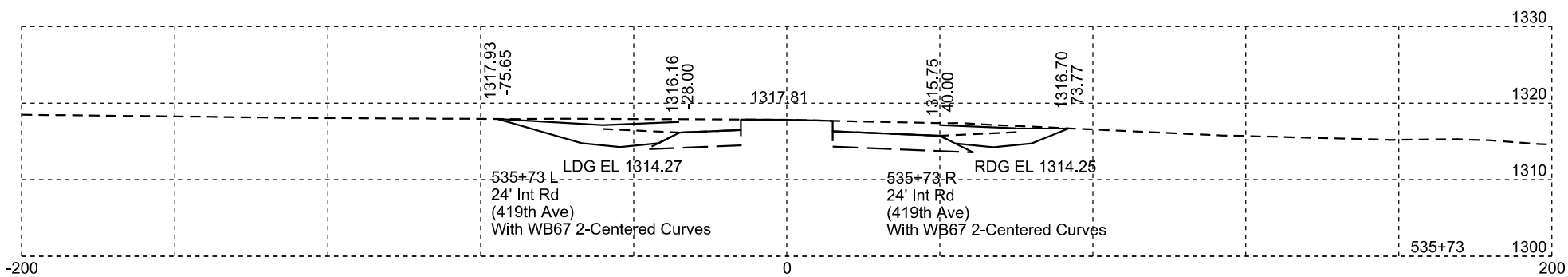
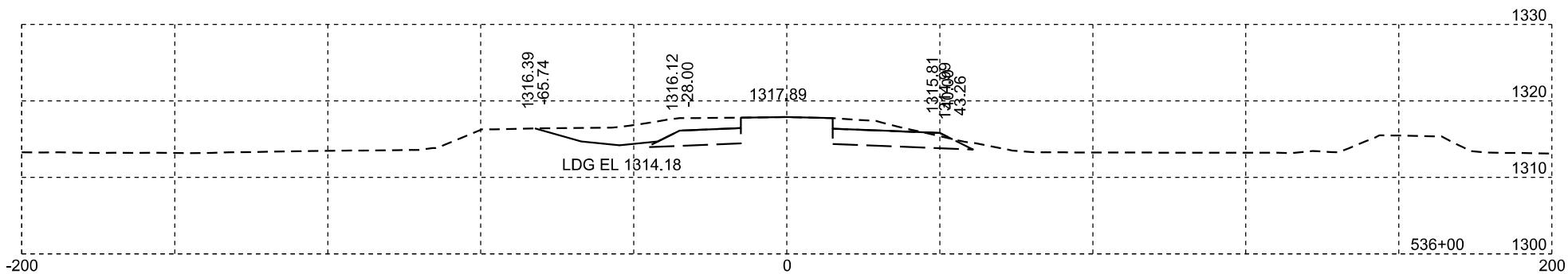
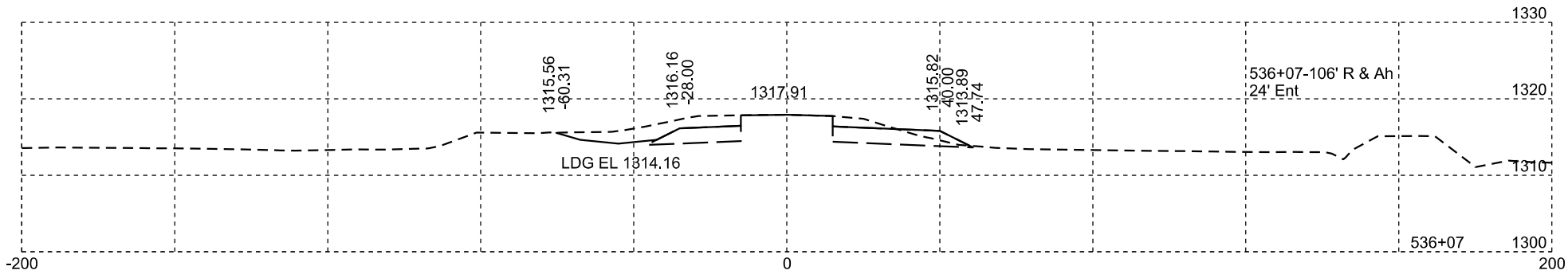


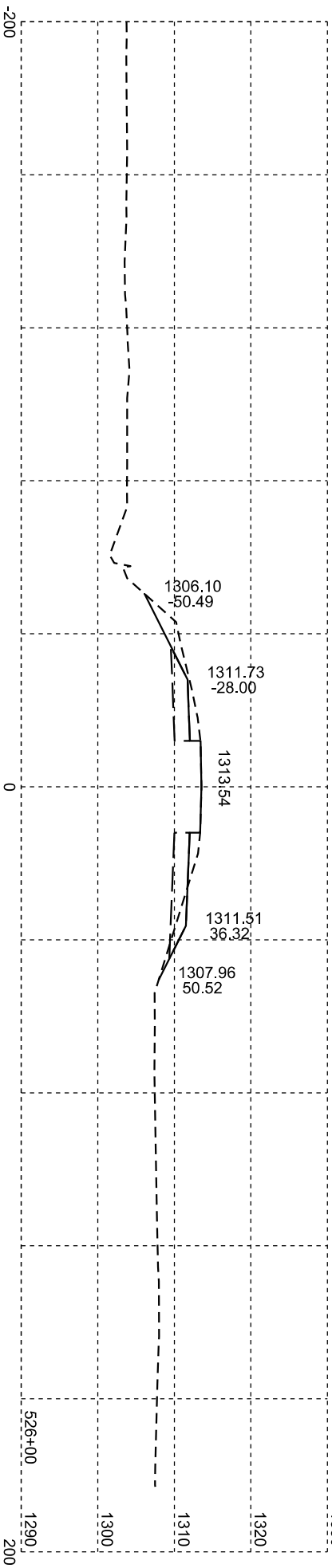
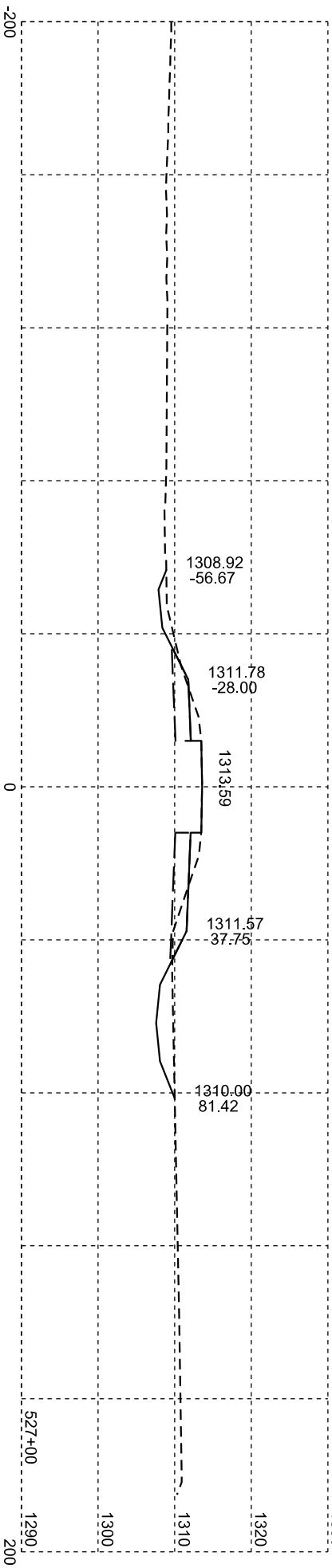
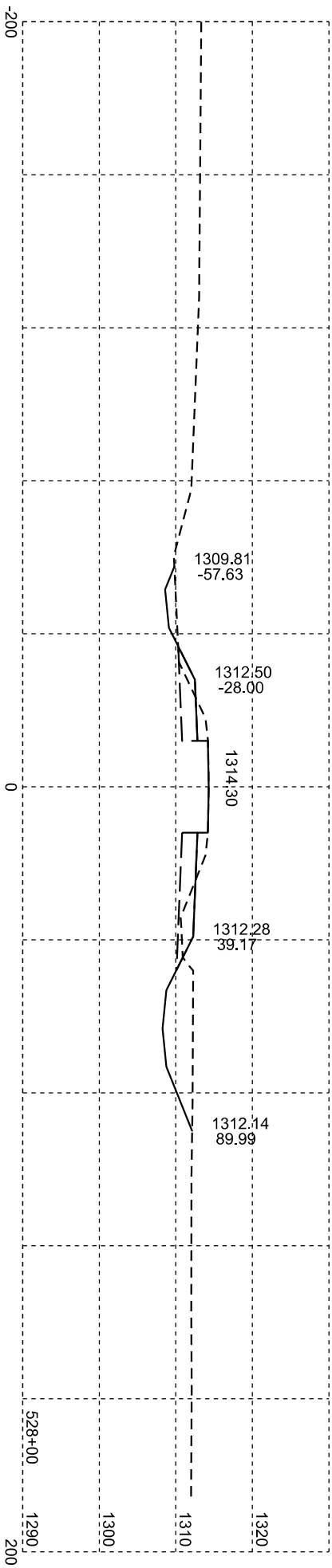
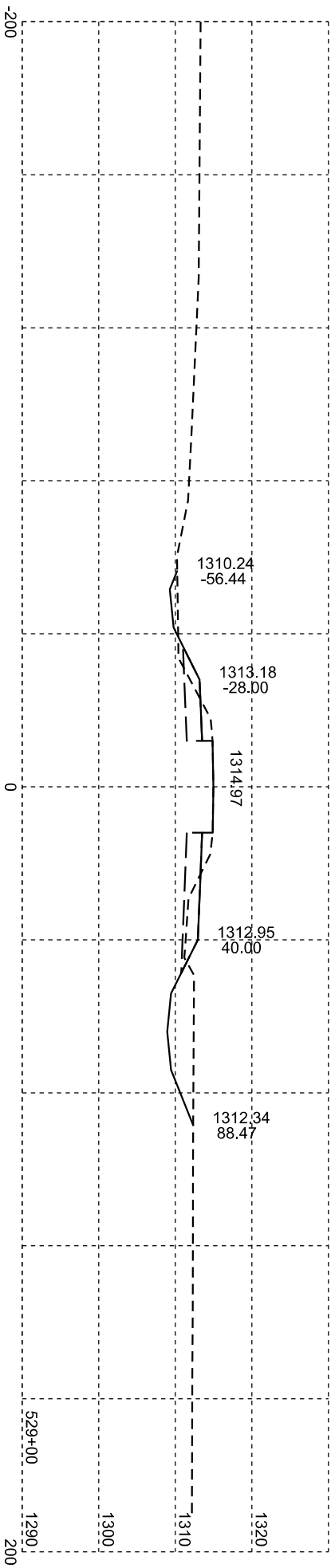
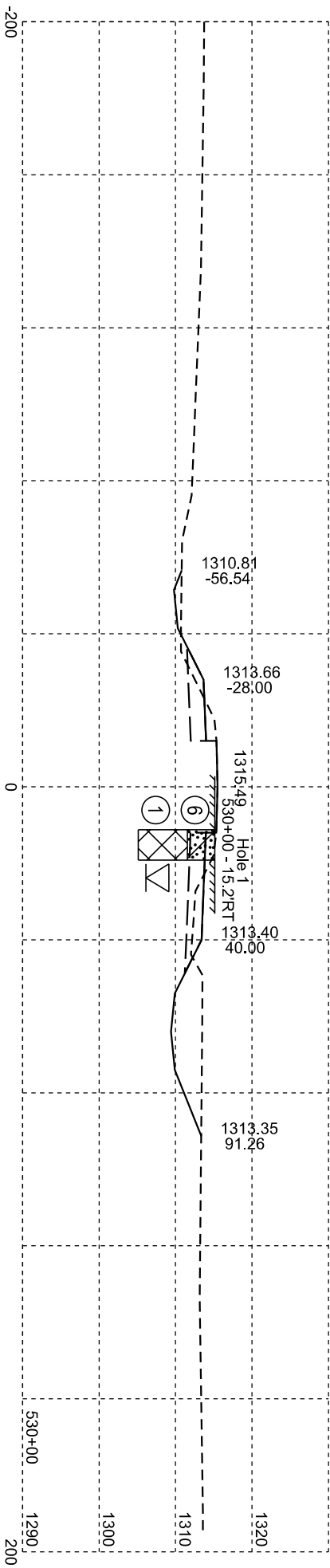
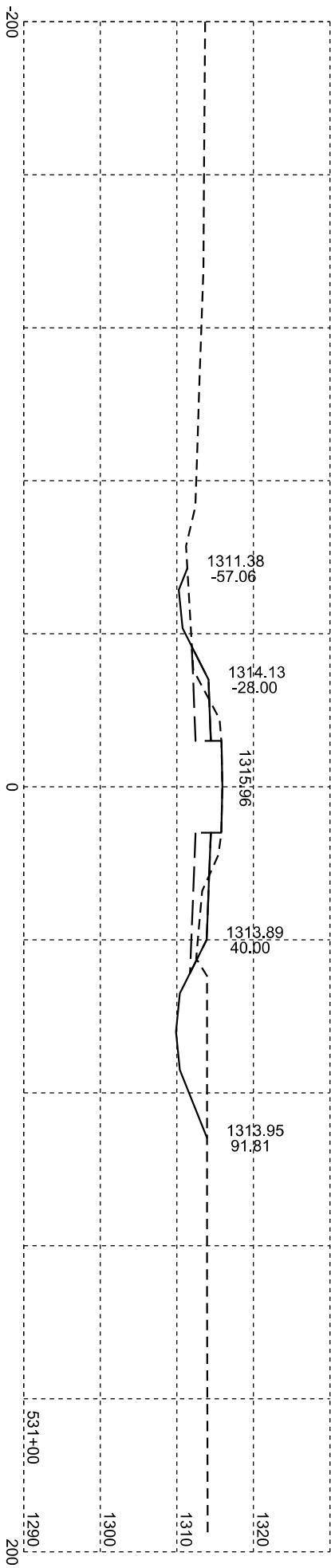
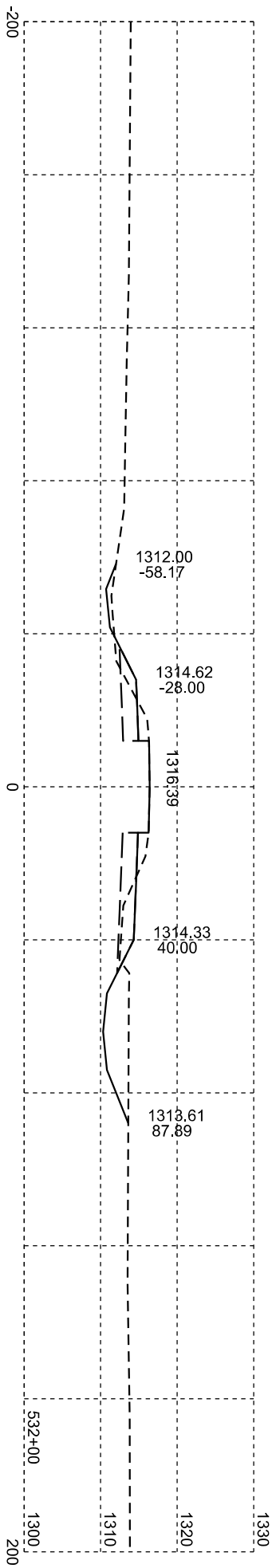




Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306	X95	X99



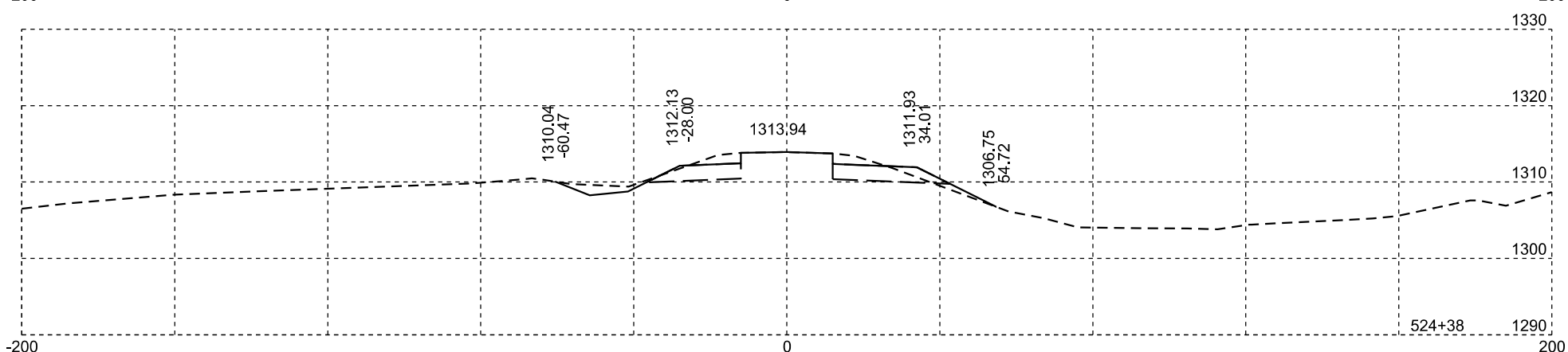
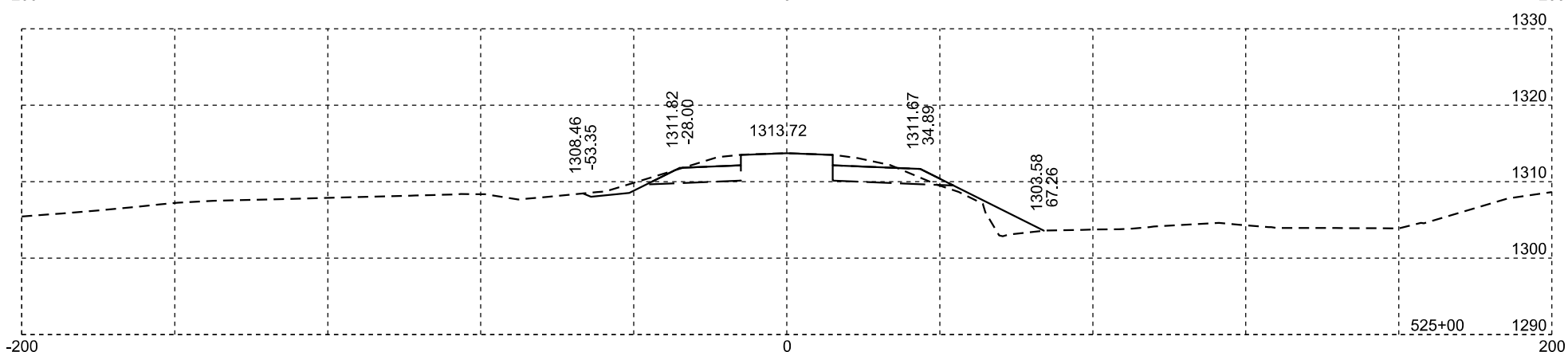
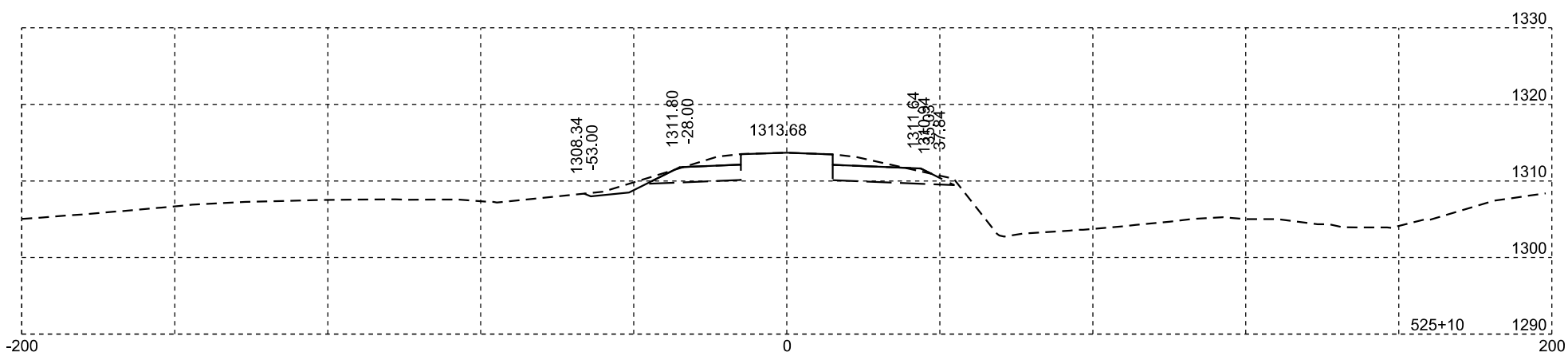
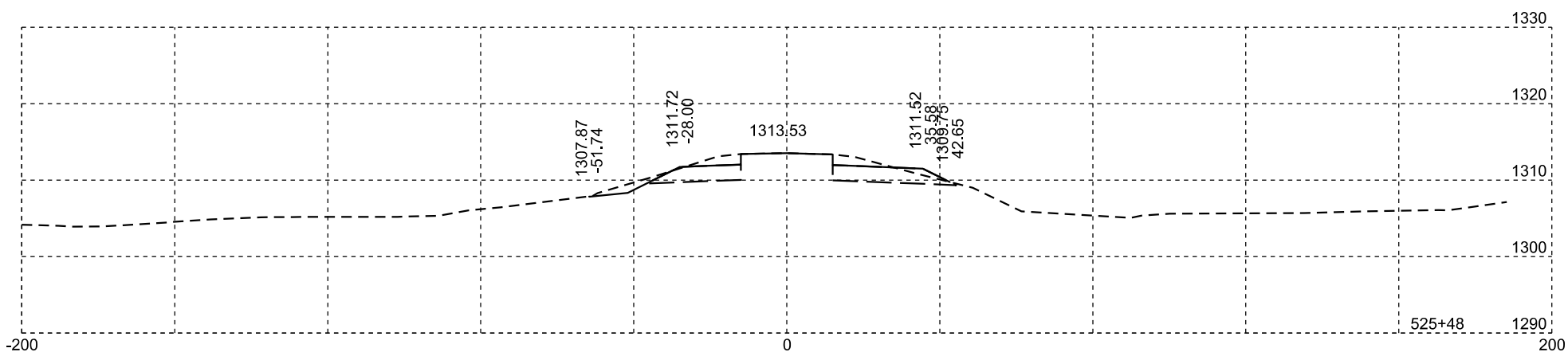
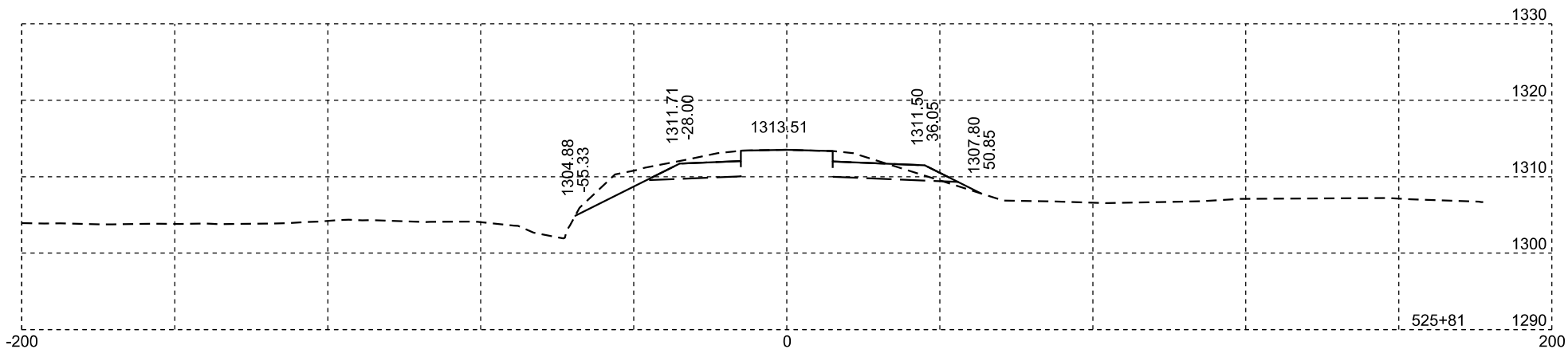
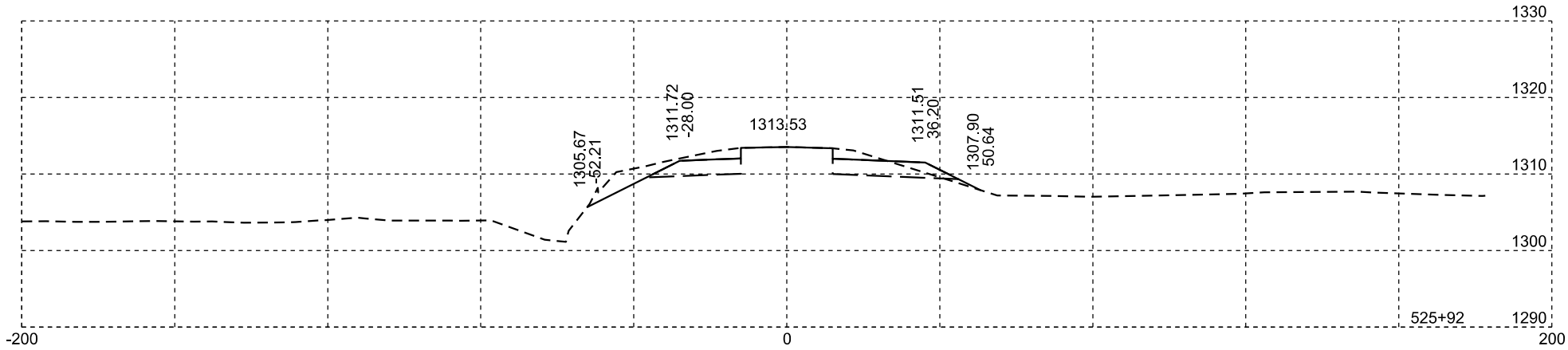


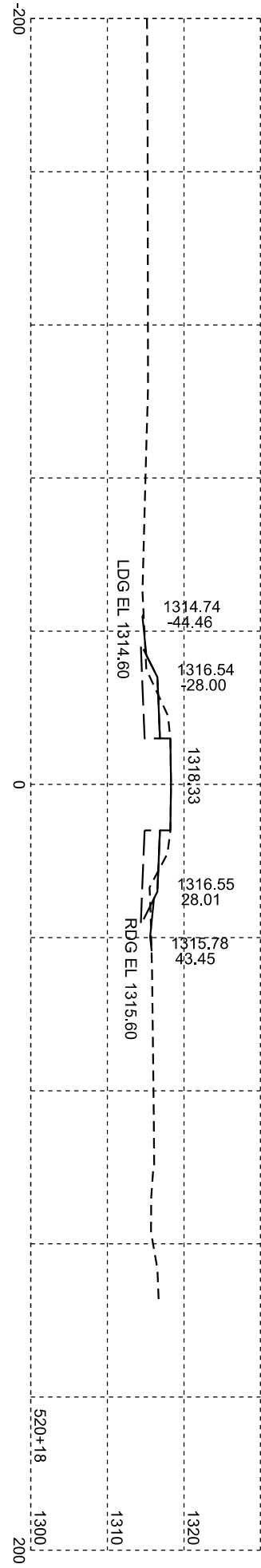
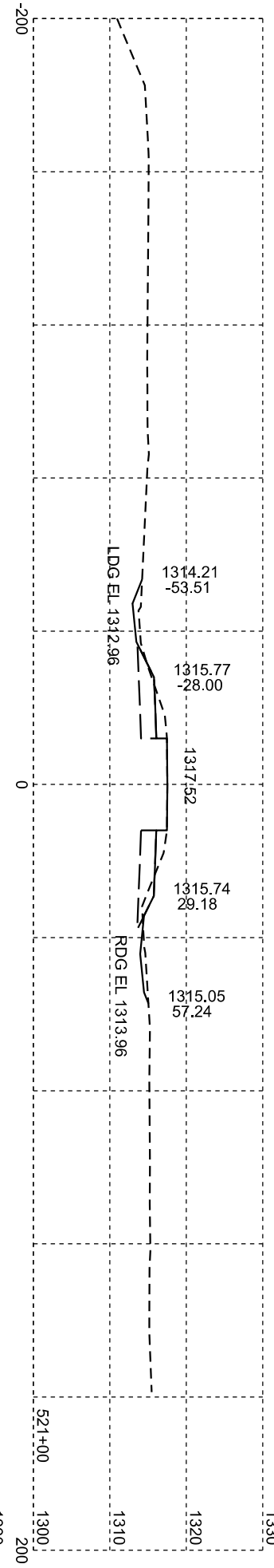
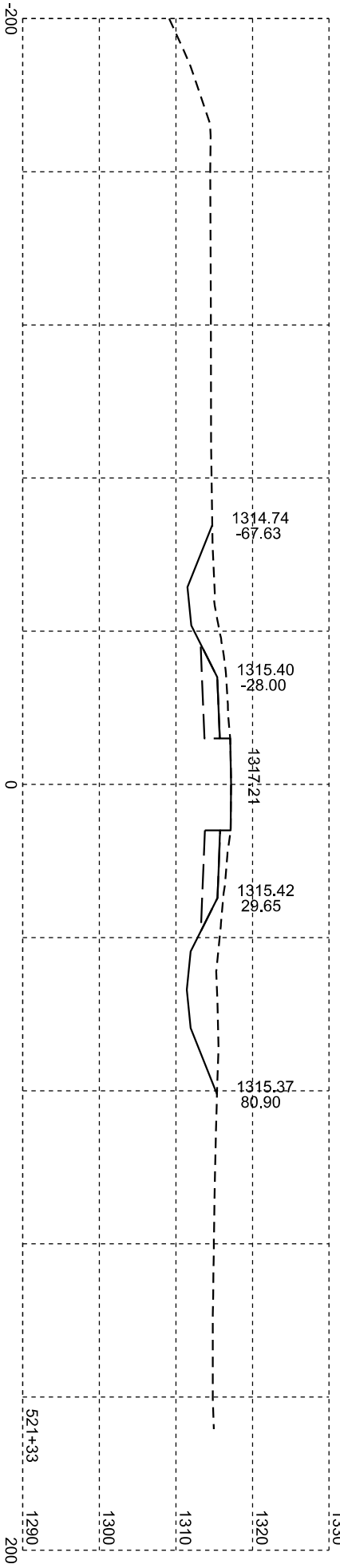
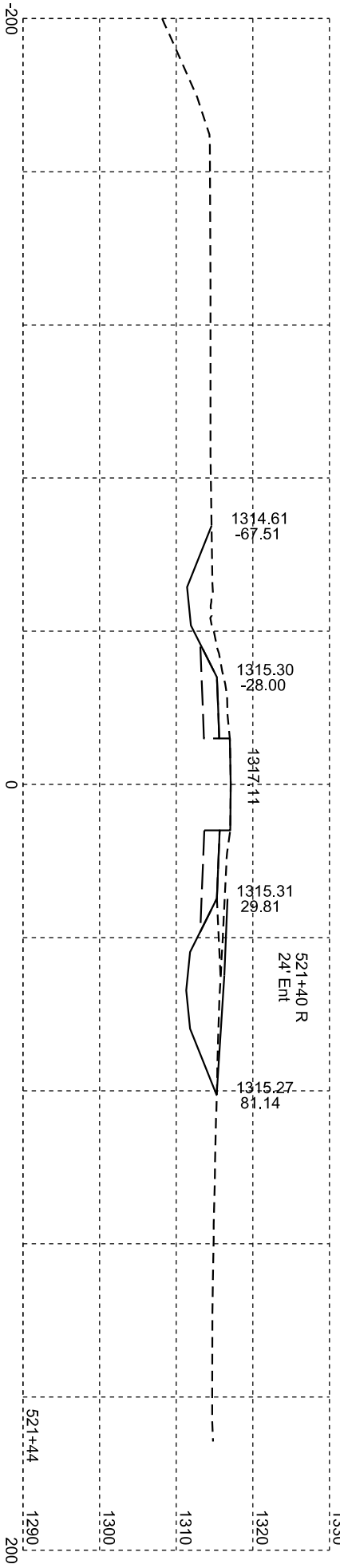
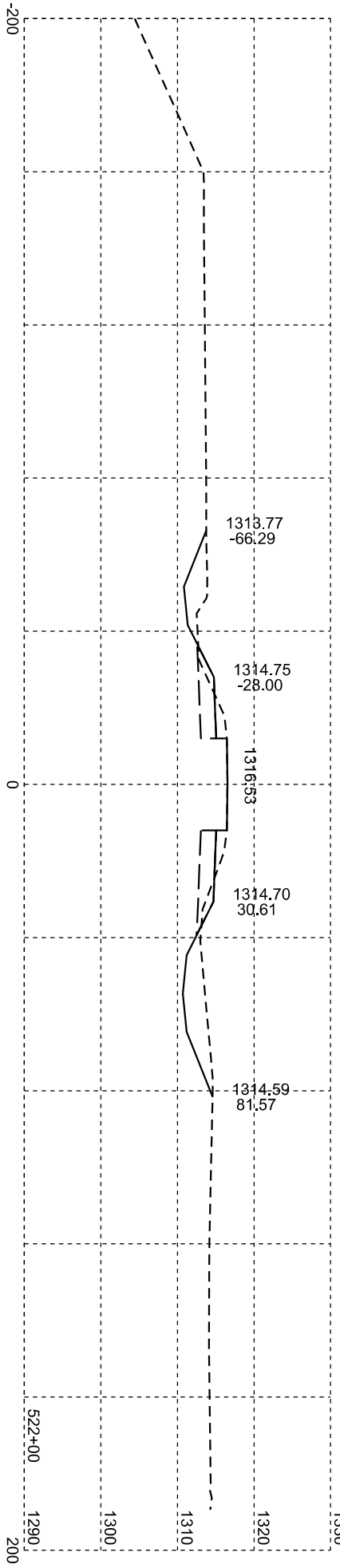
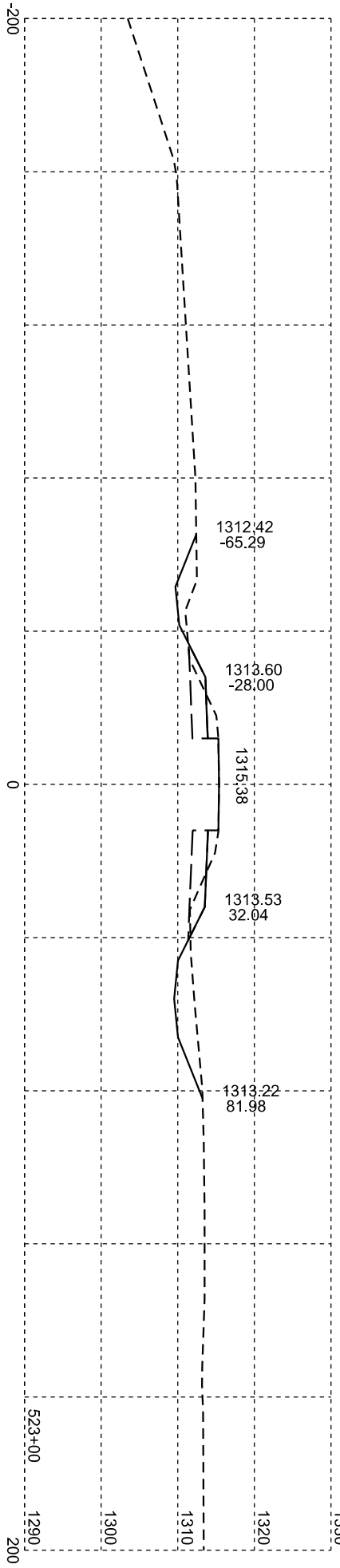
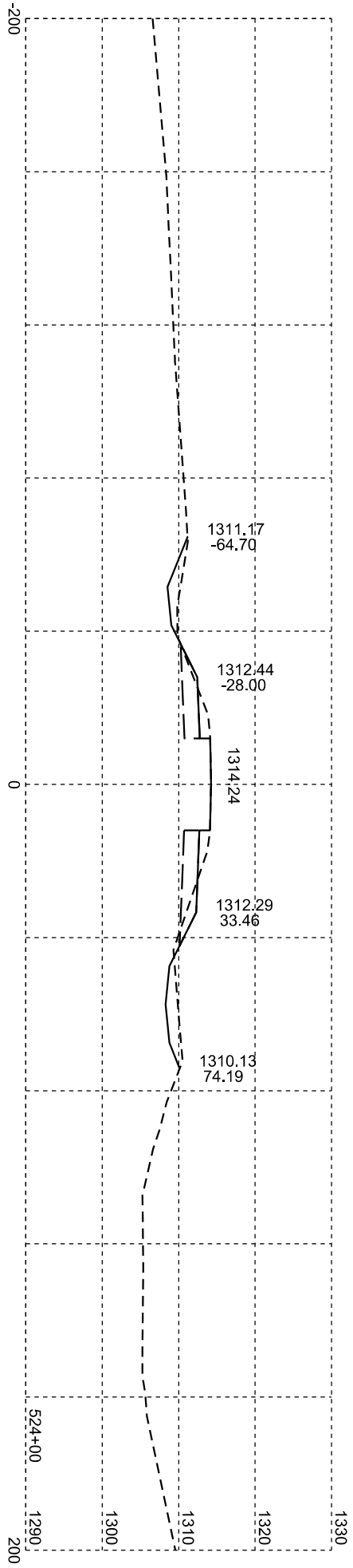
Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X97	X99

X97

X99





Plotting Date: 01/20/2026

STATE OF SOUTH DAKOTA	PROJECT		SHEET NO.	TOTAL SHEETS
	P-PH 0038(48)306		X99	X99