

CONSTRUCTION PLANS
FOR
GREGORY AVENUE, KENNEDY ROAD & PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY
JANUARY 2022

PUBLIC UTILITIES

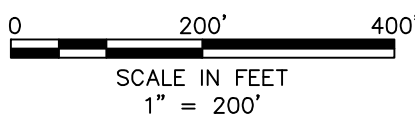
- GAS: PSE&G
- ELECTRIC: JERSEY CENTRAL POWER & LIGHT
- TELEPHONE: VERIZON
- CABLE: OPTIMUM
- WATER: SMCMUA
19 SADDLE ROAD
CEDAR KNOLL, NJ 07927
- SEWER: MORRIS TOWNSHIP

-NOTICE-

LOCATION OF UTILITIES AS SHOWN ON THESE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND IS NOT GUARANTEED AS TO EXACTNESS. THIS INFORMATION IS TO BE USED ONLY AS AN AID IN DETERMINING EXACT LOCATIONS. THE CONTRACTOR IS TO CONTACT UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION AND DEPTH OF ALL UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



KEY MAP



2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, WITH SUPPLEMENTARY SPECIFICATIONS, DETAILS AND ADDENDUM WILL GOVERN THIS PROJECT.

INDEX OF SHEETS	
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14 - 32	CROSS SECTIONS
33 - 35	CONSTRUCTION DETAILS

MAYOR
MARK J. GYORFY

DEPUTY MAYOR
CATHERINE J. WILSON

COMMITTEE
MARK J. GYORFY
CATHERINE J. WILSON
PETER V. MANCUSO
TARA OLIVO MOORE
WILLIAM V. RAVITZ

ADMINISTRATOR
TIMOTHY QUINN

ATTORNEY
JARRID KANTOR, ESQ.

TOWNSHIP ENGINEER
JAMES SLATE, PE

			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MFR

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Professional Engineer, New Jersey Lic. No. GE-28275



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Consulting Civil Engineering
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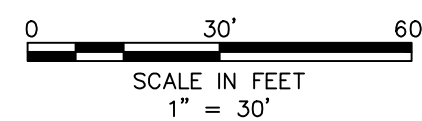
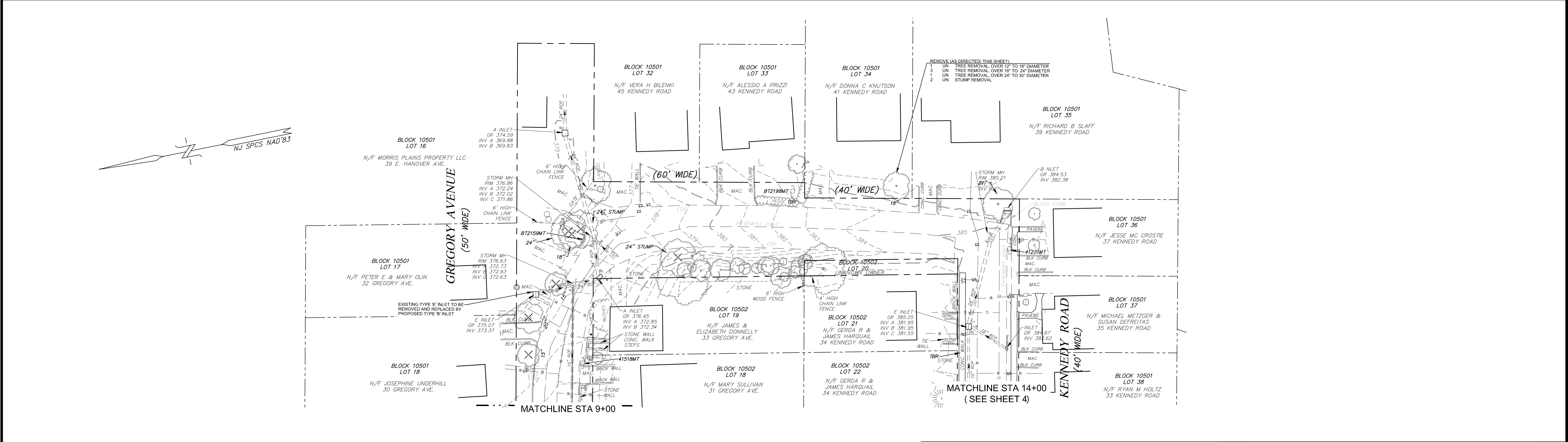
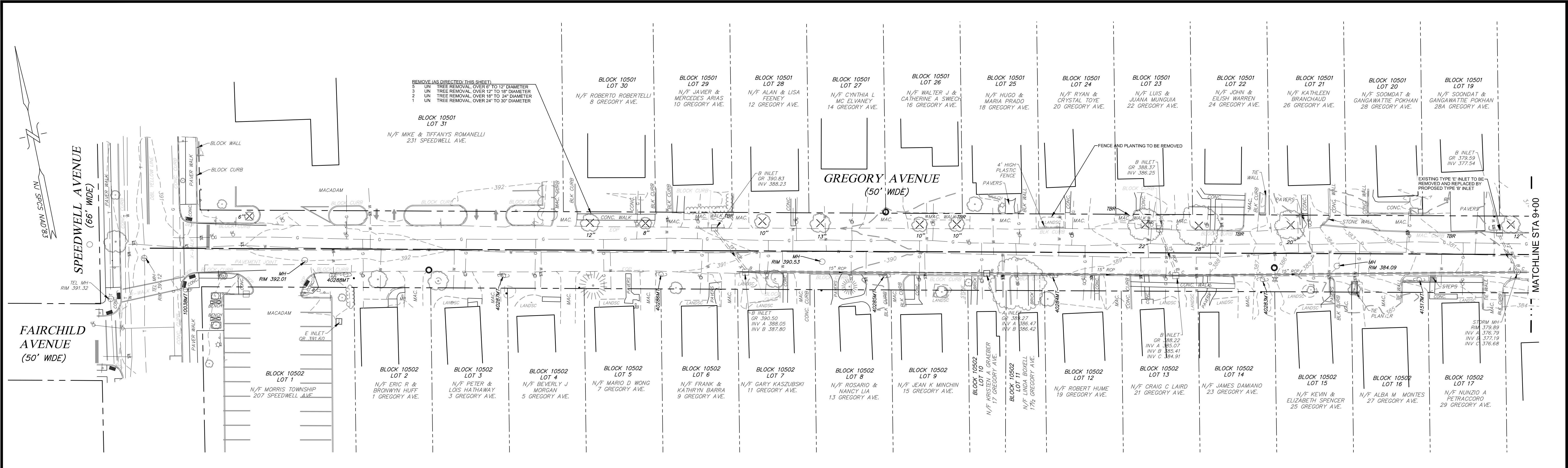
COVER SHEET
OF
GREGORY AVENUE, KENNEDY ROAD + PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

ITEM NO	DESCRIPTION	CONTRACT UNIT PRICE	SHEET 3 PLAN QTY	SHEET 4 PLAN QTY	SHEET 5 PLAN QTY	SHEET 6 PLAN QTY	SHEET 8 PLAN QTY	SHEET 10 PLAN QTY	SHEET 12 PLAN QTY	SHEET 13 PLAN QTY	GENERAL IF & WHERE	TOTAL PROJECT QTY
1	MOBILIZATION & CLEARING SITE	LS	-	-	-	-	-	-	-	-	1.00	1.00
2	CONSTRUCTION LAYOUT	DOLL	-	-	-	-	-	-	-	-	1.00	1.00
3	BREAKAWAY BARRICADE	U	-	-	-	-	-	-	-	-	6.00	6.00
4	DRUM	U	-	-	-	-	-	-	-	-	50.00	50.00
5	TRAFFIC CONE	U	-	-	-	-	-	-	-	-	200.00	200.00
6	CONSTRUCTION SIGNS	SF	-	-	-	-	-	-	-	-	400.00	400.00
7	POLICE TRAFFIC DIRECTORS	DOLL	-	-	-	-	-	-	-	-	1.00	1.00
8	FUEL PRICE ADJUSTMENT	DOLL	-	-	-	-	-	-	-	-	1.00	1.00
9	ASPHALT PRICE ADJUSTMENT	DOLL	-	-	-	-	-	-	-	-	1.00	1.00
10	EXCAVATION, UNCLASSIFIED	CY	-	-	-	500.00	215.00	450.00	345.00	200.00	-	1,710.00
11	REMOVAL OF PAVEMENT (UP TO 8" ASPHALT)	SY	-	-	-	2,745.00	1,285.00	2,700.00	2,050.00	1,190.00	-	9,970.00
12	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	SY	-	-	-	2,855.00	1,285.00	2,700.00	2,050.00	1,190.00	-	10,080.00
13	HMA MILLING, 3" OR LESS	SY	-	-	-	1,030.00	-	-	-	-	-	1,030.00
14	HMA 9.5 M 64 SURFACE COURSE, 2" THICK	T	-	-	-	455.00	155.00	325.00	260.00	145.00	-	1,340.00
15	HOT MIX ASPHALT 19 M 64 BASE COURSE, 4" THICK	T	-	-	-	690.00	310.00	650.00	505.00	290.00	-	2,445.00
16	RETAINING WALL (MODULAR BLOCK)	SF	-	-	-	120.00	75.00	-	-	-	-	195.00
17	TIMBER WALL	SF	-	-	-	70.00	22.00	-	-	-	-	92.00
18	BRICK WALL	SF	-	-	-	10.00	225.00	-	-	-	-	235.00
19	CONCRETE WALL	SF	-	-	-	120.00	-	-	-	-	-	120.00
20	STONE WALL	SF	-	-	-	-	-	15.00	-	-	-	15.00
21	TIMBER CURB	LF	-	-	-	-	-	105.00	20.00	10.00	-	135.00
22	12" REINFORCED CONCRETE PIPE, CLASS IV	LF	-	-	-	12.00	-	-	-	-	-	12.00
23	15" REINFORCED CONCRETE PIPE, CLASS IV	LF	-	-	-	-	35.00	-	-	-	-	35.00
24	RECONSTRUCT 15" REINFORCED CONCRETE PIPE, CLASS IV	LF	-	-	-	-	-	-	-	30.00	-	30.00
25	DOGHOUSE INLET, TYPE A	U	-	-	-	1.00	-	-	-	-	-	1.00
26	INLET, TYPE B	U	-	-	-	1.00	3.00	-	-	-	-	4.00
27	INLET, TYPE A	U	-	-	-	-	1.00	-	-	-	-	1.00
28	INLET CONVERTED TO MANHOLE	U	-	-	-	-	1.00	-	-	-	-	1.00
29	RESET MANHOLE, STORM SEWER, USING EXISTING CASTING	U	-	-	-	-	2.00	-	-	1.00	-	3.00
30	YARD INLET	U	-	-	-	1.00	-	-	-	-	-	1.00
31	CONVERT INLET TYPE A TO INLET TYPE B	U	-	-	-	1.00	1.00	-	-	-	-	2.00
32	CONVERT INLET TYPE E TO INLET TYPE B	U	-	-	-	-	-	2.00	-	-	-	2.00
33	CONVERT INLET TYPE E TO INLET TYPE B MODIFIED	U	-	-	-	-	1.00	2.00	-	-	-	3.00
34	CONVERT INLET TYPE A TO MANHOLE	U	-	-	-	-	1.00	-	-	-	-	1.00
35	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	U	-	-	-	4.00	-	-	4.00	2.00	-	10.00
36	CONCRETE SIDEWALK, 4" THICK	SY	-	-	-	300.00	270.00	460.00	-	-	-	1,030.00
37	CONCRETE SIDEWALK, REINFORCED, 6" THICK	SY	-	-	-	-	-	-	-	-	-	-
38	BRICK PAVERS	SY	-	-	-	55.00	-	-	-	-	-	55.00
39	HOT MIX ASPHALT DRIVEWAY, 3" THICK	SY	-	-	-	400.00	405.00	545.00	395.00	205.00	-	1,950.00
40	HOT MIX ASPHALT DRIVEWAY, 6" THICK	SY	-	-	-	50.00	-	40.00	410.00	-	-	500.00
41	STONE OR GRAVEL DRIVEWAY, 4" THICK	SY	-	-	-	20.00	60.00	-	-	-	-	80.00
42	CONCRETE DRIVEWAY, REINFORCED, 6" THICK	SY	-	-	-	225.00	105.00	155.00	-	-	-	485.00
43	DETECTABLE WARNING SURFACE	SY	-	-	-	-	-	-	-	-	-	-
44	CONCRETE STEPS	UN	-	-	-	9.00	-	-	-	-	-	9.00
45	9" X 18" CONCRETE VERTICAL CURB	LF	-	-	-	15.00	20.00	-	90.00	20.00	-	145.00
46	GRANITE CURB	LF	-	-	-	2,100.00	990.00	1,815.00	1,340.00	705.00	-	6,950.00
47	SLATE CURB	LF	-	-	-	-	-	-	20.00	-	-	20.00
48	TRAFFIC STRIPES, 4"	LF	-	-	-	650.00	-	100.00	100.00	-	-	850.00
49	TRAFFIC STRIPES, 6"	LF	-	-	-	-	-	-	-	-	-	-
50	TRAFFIC MARKINGS, SYMBOLS	SF	-	-	-	275.00	-	-	-	-	-	275.00
51	TRAFFIC MARKING LINES, 24"	LF	-	-	-	100.00	-	95.00	75.00	-	-	270.00
52	REGULATORY AND WARNING SIGN	SF	-	-	-	-	-	-	-	-	100.00	100.00
53	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	U	-	-	-	-	-	-	4.00	-	-	4.00
54	RESET MANHOLE, SANITARY SEWER, USING NEW CASTING	U	-	-	-	4.00	-	3.00	-	2.00	-	9.00
55	STUMP REMOVAL	U	2.00	-	-	-	-	-	-	-	-	2.00

GENERAL NOTES:

- THE CONTRACTOR SHALL UTILIZE A SUITABLE PAVEMENT SAW OR MILLING MACHINE TO CUT ALL PAVEMENT IN NEUT LINES. PAYMENT FOR PAVEMENT CUTTING SHALL BE INCLUDED UNDER THE PRICE BID FOR THOSE ITEMS REQUIRING SAME.
- THE CONTRACTOR SHALL PHASE AND COMPLETE THE WORK WITH MINIMAL DISRUPTION TO PROPERTIES. THE WORK SHALL BE COMPLETE OR STAFFED IN SMALL SEGMENTS TO AVOID LONG TIME PERIODS OF ROADWAY DISRUPTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED IN CONFORMANCE WITH THE MORRIS COUNTY SOIL CONSERVATION DISTRICT STANDARDS PRIOR TO ANY SOIL DISTURBANCES OR IN THEIR PROPER SEQUENCES AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- THE CONTRACTOR SHALL BROOM SWEEP OR MECHANICALLY SWEEP ALL STREETS IN THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES ON A DAILY BASIS.
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST ONE (1) WEEK PRIOR TO CONSTRUCTION FOR PHYSICAL MARKOUTS OF UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL COMPANIES IN ACCORDANCE WITH THE "UNDERGROUND FACILITY PROTECTION ACT" (P.L. 1994 CH. 118) AND PROVIDE THE ENGINEER WITH THE NOTIFICATION CONFIRMATION NUMBER PRIOR TO EXCAVATION. THE CONTRACTOR IS TO CALL THE GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE (GSPULS), AKA NJ ONE CALL, AT 1-800-272-1000 PRIOR TO ANY EXCAVATION.
- RESTORATION OF LAWN AREAS ADJACENT TO THE CURB AND SIDEWALK TO BE COMPLETED WHERE ORDERED BY THE ENGINEER. ALL DISTURBED LAWN AREAS ADJACENT TO CURB AND SIDEWALK SHALL BE RESTORED IN ACCORDANCE WITH THESE PLANS AS DIRECTED BY THE ENGINEER.
- EXCAVATION, BACKFILL, COMPACTION, AND OTHER METHODS OF CONSTRUCTION SHALL BE SUCH THAT THE WATER MAIN, GAS MAINS, SANITARY AND STORM SEWER ARE ADEQUATELY PROTECTED. ANY DAMAGE, DISTURBANCE, OR BREAKAGE OF ANY UTILITY PIPES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER. ALSO NOTE THAT MOST STORM DRAINS ARE AT SHALLOW DEPTHS WITH MINIMAL COVER, AND MUST BE PROTECTED DURING WORK.
- ALL INFORMATION SHOWN OR NOTED FOR EXISTING FACILITIES, GRADES, ROADWAYS, AND MATERIALS IS APPROXIMATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL INFORMATION WHICH MAY AFFECT HIS WORK. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE ONLY INDICATED TO BRING ATTENTION TO POSSIBLE CONFLICT.
- ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
- ALL DISTURBED SHRUBS, FENCING, WALKWAYS, SIGNS, MAILBOXES, DRIVES, ETC., SHALL BE RELOCATED AND/OR RESTORED TO THEIR ORIGINAL CONDITION AND THE SATISFACTION OF THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS RESTORATION UNLESS SPECIFIED. PAYMENT SHALL BE MADE UNDER THE CLEARING SITE ITEM. INCLUDED IN THE CLEARING SITE SHALL BE ALL COSTS FOR LABOR, MATERIAL, AND EQUIPMENT FOR REMOVING DISPOSING, AND/OR ABANDONING EXISTING CULVERTS BENEATH DRIVES, RELOCATION MAILBOXES, MODIFICATIONS TO DRIVES OTHER THAN BUSHING CONCRETE OF CONCRETE, REMOVING AND REPLACING CURBING IN DRIVEWAYS, AND FILLING REGARDING EXISTING GUTTER SWALES, ETC. AS SHOWN ON THE PLANS AND REQUIRED.
- THE CONTRACTOR SHALL DEFINE THE LOCATION OF SITES TO BE USED FOR STORAGE OF EXCAVATION MATERIALS PRIOR TO THE PRECONSTRUCTION MEETING.
- TOPOGRAPHY AND EXISTING CONDITIONS INFORMATION IS BASED ON A FIELD SURVEY FOR THE TOWNSHIP OF MORRIS, CONDUCTED IN SEPTEMBER 2020, AND PREPARED BY VAN CLEEF ENGINEERING. ALL EXISTING CONDITIONS AND UTILITY LOCATIONS ARE APPROXIMATE.
- THE CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL PROTECTION AND RESTORATION REQUIREMENTS SHOWN ON CONTRACT DRAWINGS AND INCLUDED IN THE CONTRACT SPECIFICATIONS.
- SEEDING AND GRADING LIMITS SHALL INCLUDE ALL AREAS WHICH ARE PART OF THE NEW CONSTRUCTION AND ALL AREAS DISTURBED BY CONSTRUCTION PROCEDURES, EQUIPMENT, OR VEHICLES. ALL DECORATIVE SHRUBS DISTURBED SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
- ALL PROPERTY CORNERS AND MONUMENTS REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY A NEW JERSEY LICENSED LAND SURVEYOR.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SAFETY REQUIREMENTS IN THE INFORMATION FOR BIDDERS. THE OWNER SHALL ASSUME NO RESPONSIBILITY/LIABILITY FOR THE SAFETY OF THE WORKERS OR THE WORK PERFORMED.
- THE CONTRACTOR SHALL COMPLETE TEST PITS IN ADVANCE OF ORDERING ANY CONSTRUCTION MATERIALS. TEST PITS SHALL BE PAID FOR UNDER ITEM 5 OF THE CONTRACT SPECIFICATIONS. WHEN AND WHERE DIRECTED BY THE ENGINEER, TEST PITS SHALL BE COMPLETED TO FURTHER EVALUATE AREAS IDENTIFIED AS WEAK SOIL FOUNDATION OR SOFT SPOTS.
- THE CONTRACTOR SHALL ESTABLISH AND/OR VERIFY ALL BENCHMARKS AND HORIZONTAL CONTROLS PRIOR TO THE START OF CONSTRUCTION THE WORK FOR WHICH SHALL BE INCLUDED UNDER ITEM 2, CONSTRUCTION LAYOUT, AND SHALL BE COMPLETED BY A NEW JERSEY LICENSE LAND SURVEYOR.
- ALL WATER AND GAS CURB BOXES, ETC., WITHIN THE LIMITS OF THE WORK SHALL BE RESET OR RELOCATED WHERE NECESSARY AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED UNDER ITEM 1, MOBILIZATION & CLEARING SITE.
- THE CONTRACTOR SHALL REMOVE DRAINAGE STRUCTURES AS SPECIFIED ON THE PLANS. PAYMENT SHALL BE INCLUDED UNDER ITEM 1 MOBILIZATION & CLEARING SITE.
- THE CONTRACTOR IS TO PROTECT ALL SECTIONS OF CURBING SPECIFIED TO REMAIN AT ALL TIMES DURING WORK. ANY DISTURBANCE OR DAMAGE TO CURBING TO REMAIN SHALL BE RECTIFIED AND CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- EXISTING FENCES AND GRATES SHALL BE RETURNED TO THE MORRIS TOWNSHIP DEPARTMENT OF PUBLIC WORKS AS DIRECTED AT NO ADDITIONAL COSTS. ALL NEW TYPE "N" INLET GRATES AND CASTING SHALL BE AS MANUFACTURED BY CAMPBELL FOUNDRY, OR APPROVED EQUAL.
- INLETS TO BE REPAIRED AND REPLASTERED WHERE DIRECTED BY THE ENGINEER.
- EACH EXISTING DRIVEWAY WITHIN THE PROJECT LIMITS SHALL BE SAW CUT WITH A SUITABLE PAVEMENT SAW AND REPLACED WITH A DROP CURB, MATCHING DRIVEWAY APRON, AND RECONSTRUCTED DRIVEWAY MATCHING THE EXISTING WIDTH OR AS DIRECTED BY THE ENGINEER. THE LENGTH OF THE DRIVEWAY RECONSTRUCTION SHALL BE FIELD DETERMINED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK, OTHER THAN FOR SPECIFIC DRIVEWAY RESTORATION ITEMS. SAW CUTTING SHALL TAKE PLACE UPON FINAL DRIVEWAY RESTORATION.
- HYDRANT RELOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE WATER COMPANY, SOUTHEAST MORRIS MUA. ALL COSTS ASSOCIATED WITH THE HYDRANT RELOCATIONS AND HEIGHT ADJUSTMENTS SHALL BE BORNE THE CONTRACTOR. PAYMENT SHALL BE REQUIRED UNDER ITEM 1, MOBILIZATION & CLEARING SITE.
- ROOF DRAIN LEADER PIPES INTO STREET GUTTERS, WHETHER NOTED OR NOT SHALL BE RECONSTRUCTED AND CONNECTED TO THE STORM SEWER SYSTEM. PAYMENT INCLUDED UNDER VARIOUS DRAINAGE ITEMS.
- CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL DISPOSAL TICKETS FOR ALL SOLID WASTE REMOVED FROM THE SITE FROM THE LIMITS OF THE PROJECT TO THE OWNER.
- CONTRACTOR SHALL BE REQUIRED TO PERFORM THE PAVEMENT CORING OR TESTING ANALYSIS AS REQUIRED BY THE NJDOT MUNICIPAL AND PLANT. PAYMENT SHALL BE INCLUDED UNDER ITEM HOT MIX ASPHALT 9.5 M 64 SURFACE COURSE, 2" THICK IF A SEPARATE BID PAY ITEM IS NOT PROVIDED. PROGRAM MATERIAL CERTIFICATION IN USE/OF PAVEMENT CORES WILL BE ACCEPTABLE TO THE TOWNSHIP SHOULD THE CONTRACTOR CHOOSE THIS MANNER OF PAVEMENT QUALITY CERTIFICATION, PROVIDED TESTING METHODS ARE APPROVED BY NJDOT.
- ALL TREES THAT ARE REQUIRED TO BE REMOVED FOR WHICH THERE IS NO SEPARATE PAY ITEM SHALL BE PAID FOR UNDER THE CLEARING SITE ITEM. LIMITS OF REMOVAL SHALL BE IN ACCORDANCE WITH THE LIMIT IF PROPOSED FINISHED GRADE IDENTIFIED IN THE CROSS SECTION PLANS PREPARED FOR THE PROJECT.
- ALL EXISTING PIPES TO BE ABANDONED SHALL HAVE THE ENDS PLUGGED WITH CONCRETE. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK. COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIANCE DRAINAGE ITEMS.
- CLEARING SITE ITEM SHALL INCLUDED THE REMOVAL OF ALL EXISTING SIDEWALKS AND CURBS EXCEPT EXISTING SIDEWALK AND CURBS WHICH HAVE BEEN IDENTIFIED TO REMAIN.
- ALL CONSTRUCTION SHALL CONFORM TO THE 2019 NJDOT STANDARDS SPECIFICATIONS AND ALL SUPPLEMENTARY SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE A TRAFFIC DETOUR PLAN IF ROADWAY CLOSURES ARE PROPOSED BY THE CONTRACTOR. SAID PLANS SHALL BE SUBMITTED TO THE POLICE DEPARTMENT FOR APPROVAL. ROADWAY CLOSURES SHALL ALLOW FOR LOCAL TRAFFIC ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR KATIEVA LANE CLOSURE AT ALL TIMES FOR PASSAGE OF LOCAL TRAFFIC, SCHOOL BUSES, AND EMERGENCY VEHICLES. ROAD CLOSURES AND DETOURS OR SIGNAGE SHALL BE COMPLETED IN ACCORDANCE WITH THE 2019 NJDOT STANDARD SPECIFICATIONS.
- WHEN ROADWAY CLOSURES ARE NOT PROPOSED OR APPROVED THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURE FOR LANE DETOURS OR ALTERNATING LANE TRAFFIC DIRECTION. LANE SHIFTS AND ALTERNATION LANE CONTROL SHALL BE COMPIED IN ACCORDANCE WITH THE 2019 NJDOT STANDARD SPECIFICATIONS.

			DATE: JANUARY 2022	 Van Cleef ENGINEERING ASSOCIATES, LLC	Consulting Civil Engineering Bridge Design Highway Design Construction Inspection Geotechnical Engineering Water / Wastewater Municipal Engineering Land Surveying Professional Planning Landscape Architecture
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REVISIONS	AUTH.	DATE	JOB NO. 2004MFR	With Offices In New Jersey, Pennsylvania & Delaware	
_____ Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				QUANTITIES AND NOTES OF GREGORY AVENUE, KENNEDY ROAD + PINE TREE LANE SITUATED IN MORRIS TOWNSHIP MORRIS COUNTY, NEW JERSEY	
					



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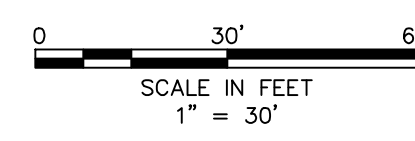
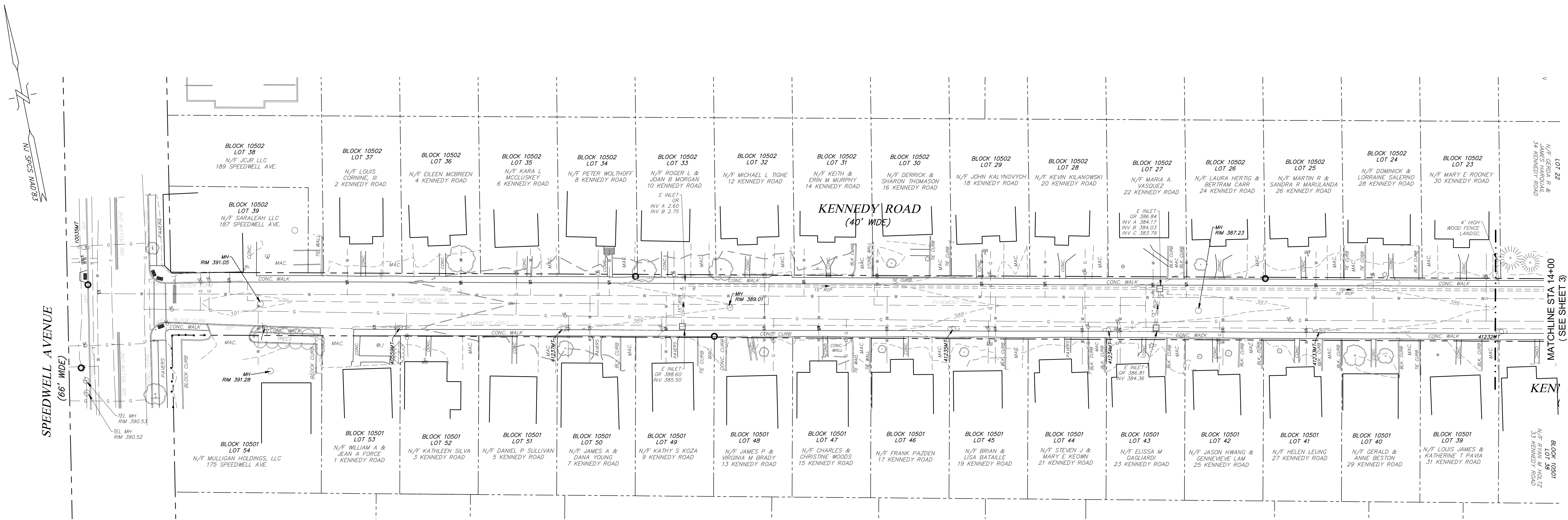
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EXISTING CONDITIONS AND DEMOLITION PLAN
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ENGINEERING ASSOCIATES, LLC

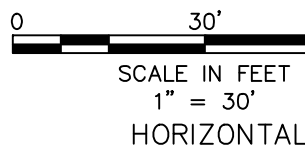
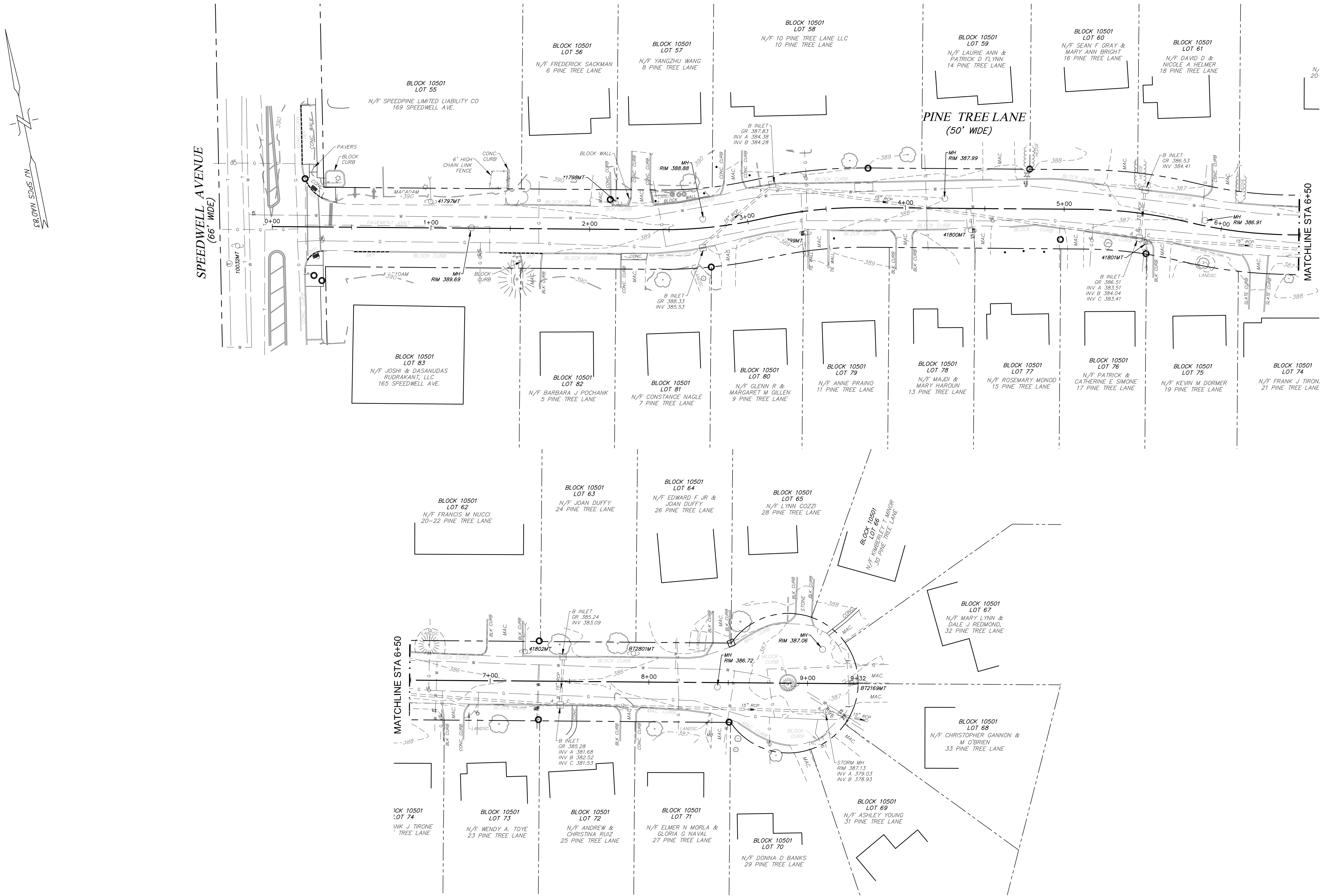
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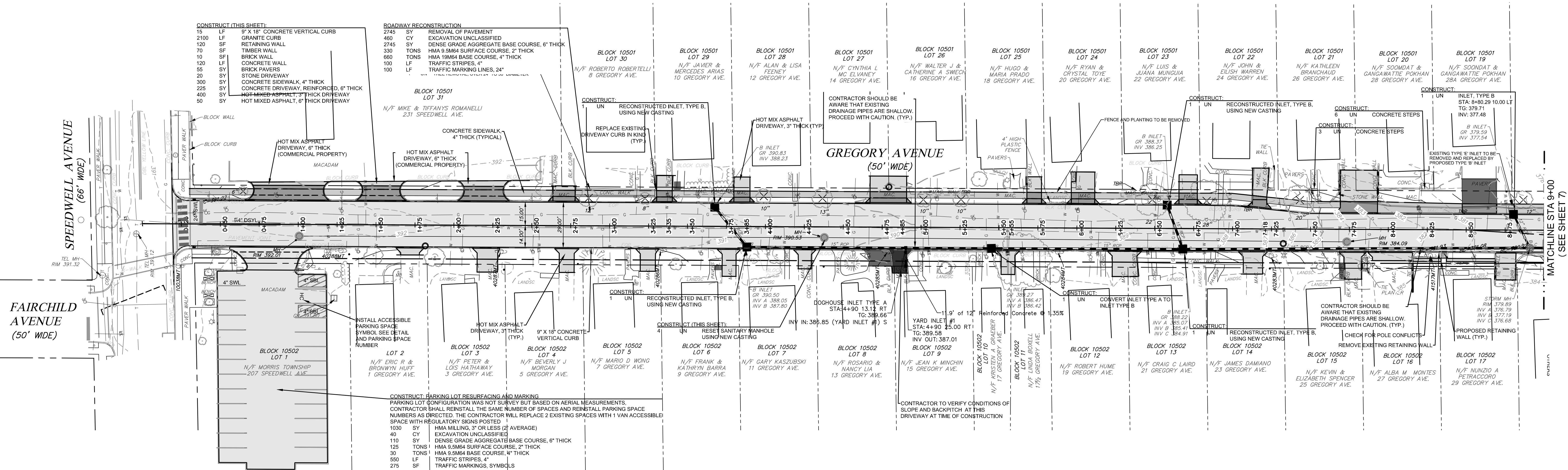
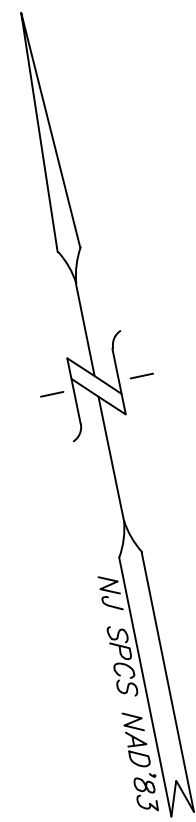
REVISIONS AUTH. DATE JOB NO. 2004MRR



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WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 454-3080 FAX: (908) 454-1397

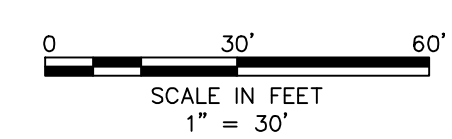
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EXISTING CONDITIONS AND DEMOLITION PLAN
OF
PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY



FAIRCHILD AVENUE
(50' WIDE)

SPEEDWELL AVENUE
(66' WIDE)



			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR

Stanley J. Schrek, P.E.
Professional Engineer, New Jersey Lic. No. GE-28275



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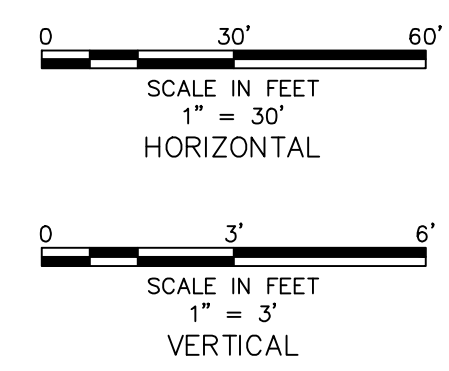
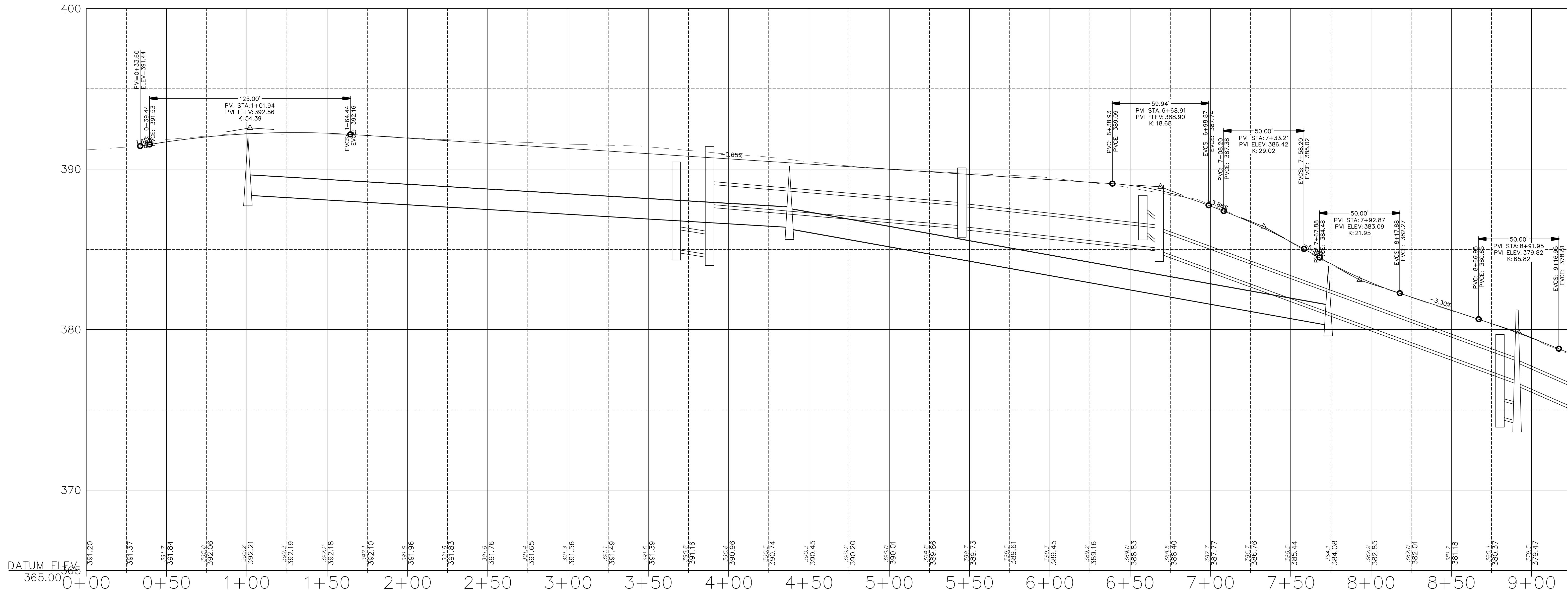
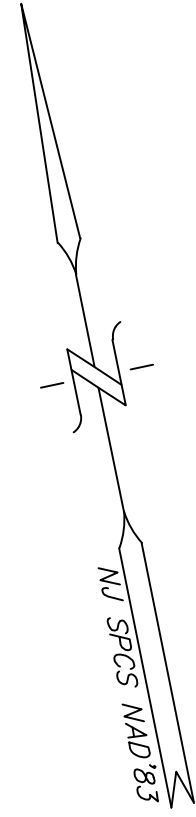
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CONSTRUCTION PLAN 1 (STA 0+00 - 9+00)
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
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Stanley J. Schrek, P.E.
Professional Engineer, New Jersey Lic. No. GE-28275



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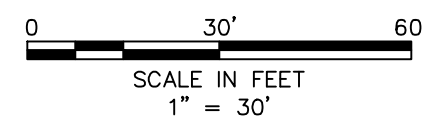
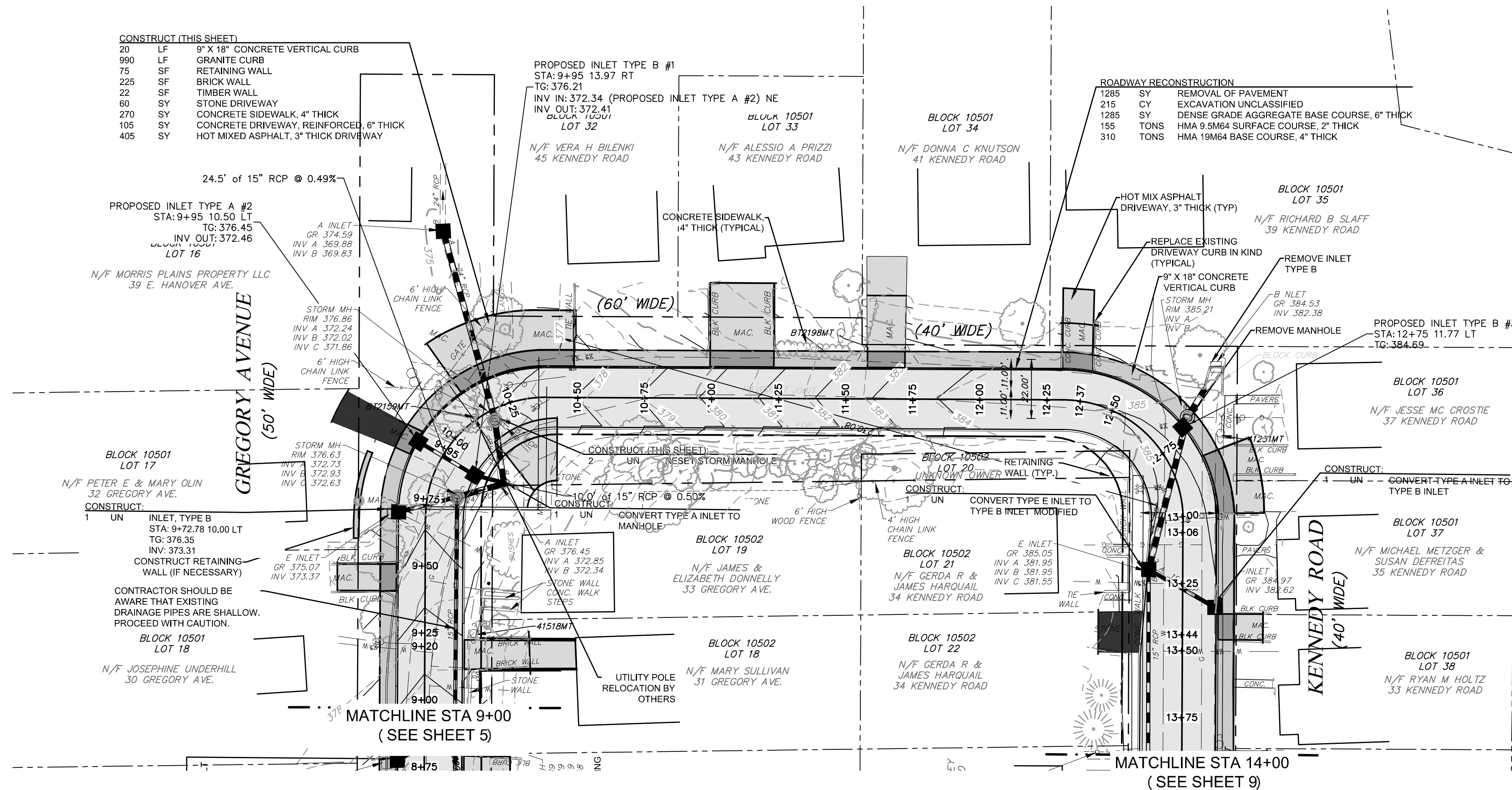
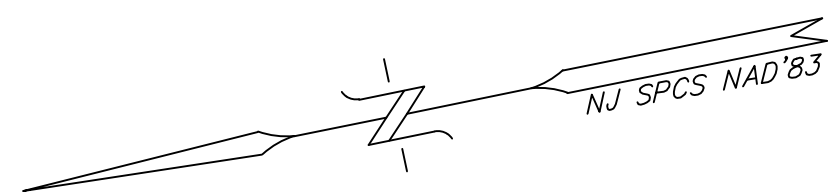
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PROFILE PLAN 1 (STA 0+00 - 9+00)
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY



			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
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REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
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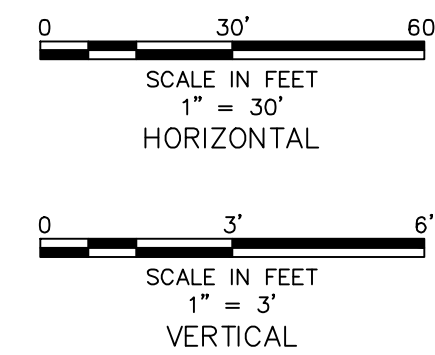
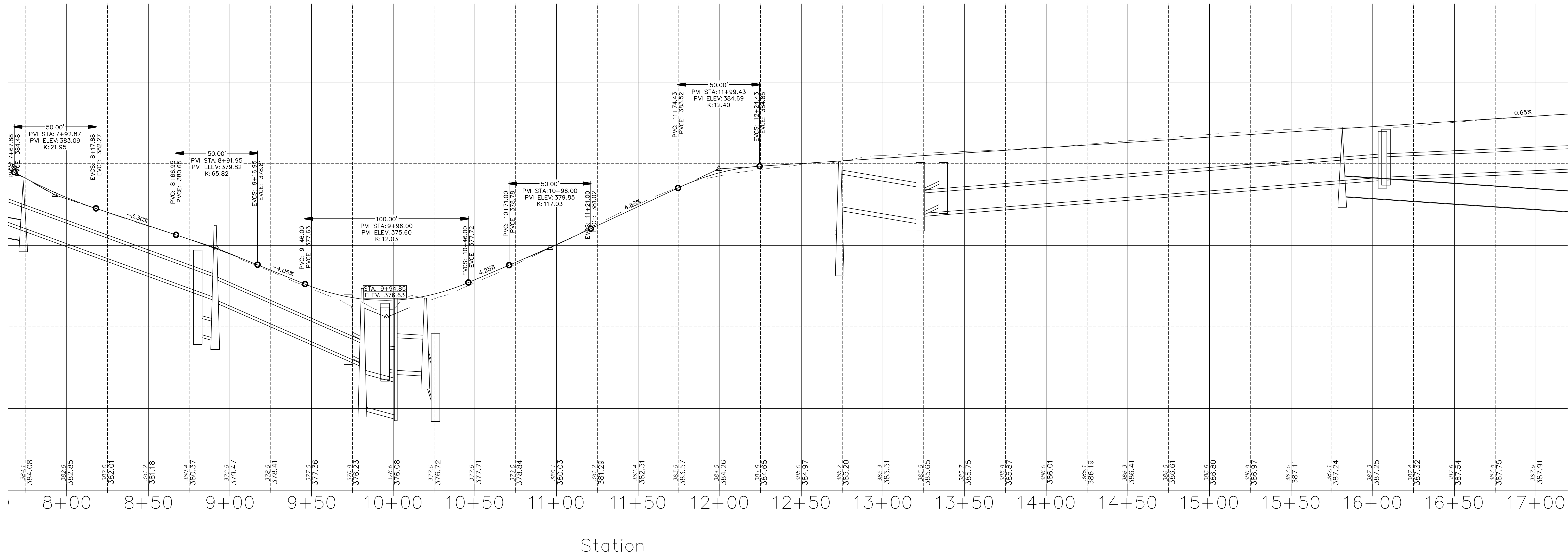
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CONSTRUCTION PLAN 2 (STA 9+00 - 14+00)
OF
GREGORY AVENUE & KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

8
35



			DATE: JANUARY 2022
			SCALE: AS NOTED
			DESIGNED BY: TMO
			DRAWN BY: JTB
			CHECKED BY: SJS
REVISIONS	AUTH.	DATE	JOB NO. 2004MRR
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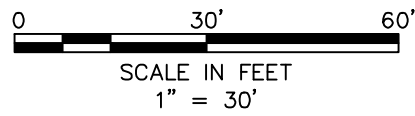
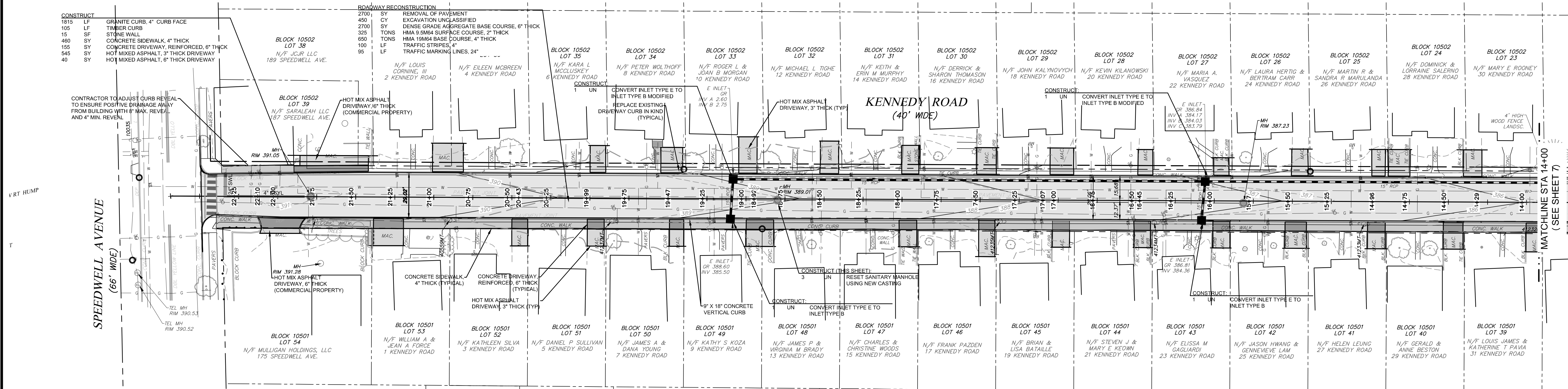
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Municipal Engineering
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NJ LLC CERT. No. 246A28132300

PROFILE PLAN 2 (STA 9+00 - 14+00)
OF
GREGORY AVENUE & KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

9
35



		DATE:	JANUARY 2022
		SCALE:	1" = 30'
		DESIGNED BY:	TMO
		DRAWN BY:	JTB
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REVISIONS	AUTH.	DATE	JOB NO. 2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275			

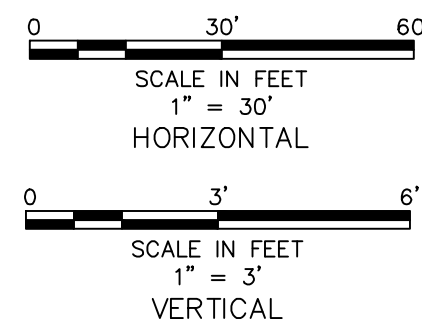
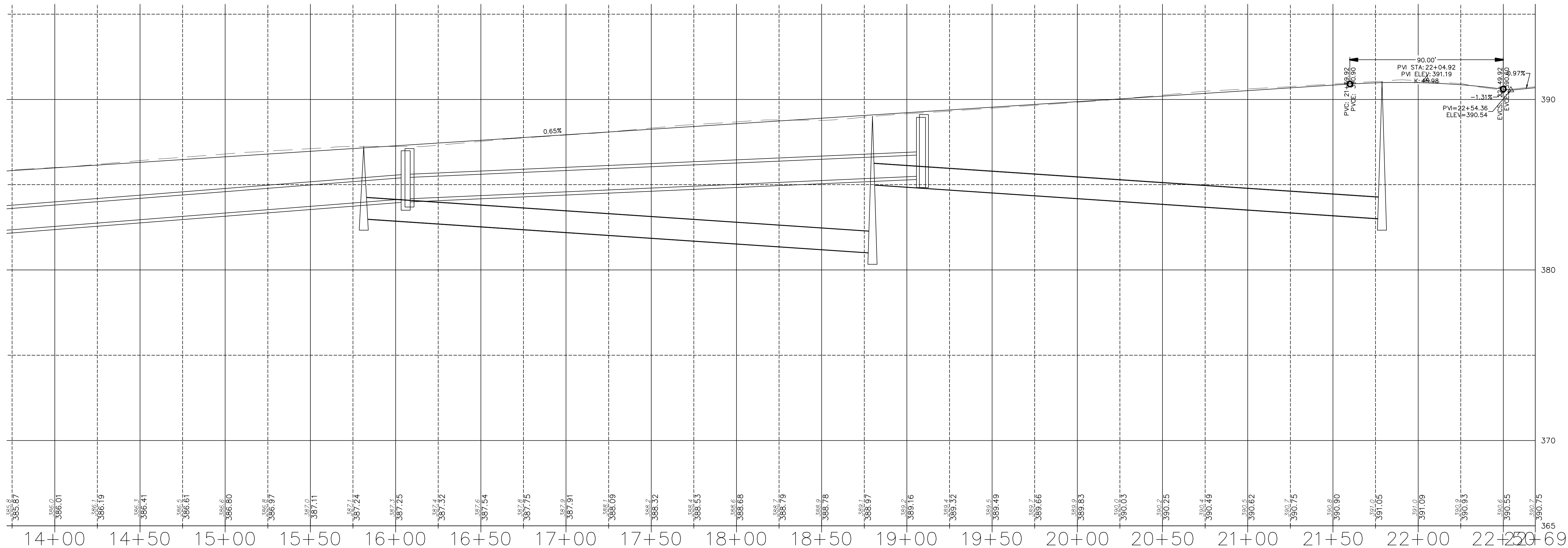


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NJ LLC CERT. NO. 246A28132300

CONSTRUCTION PLAN 3 (STA 14+00 - 22+77)
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

10/35



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
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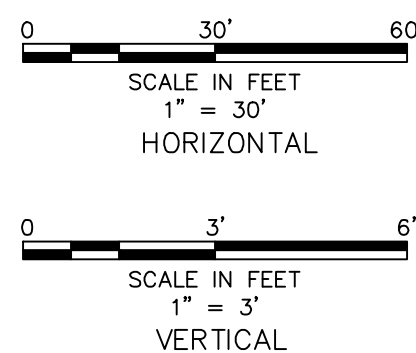
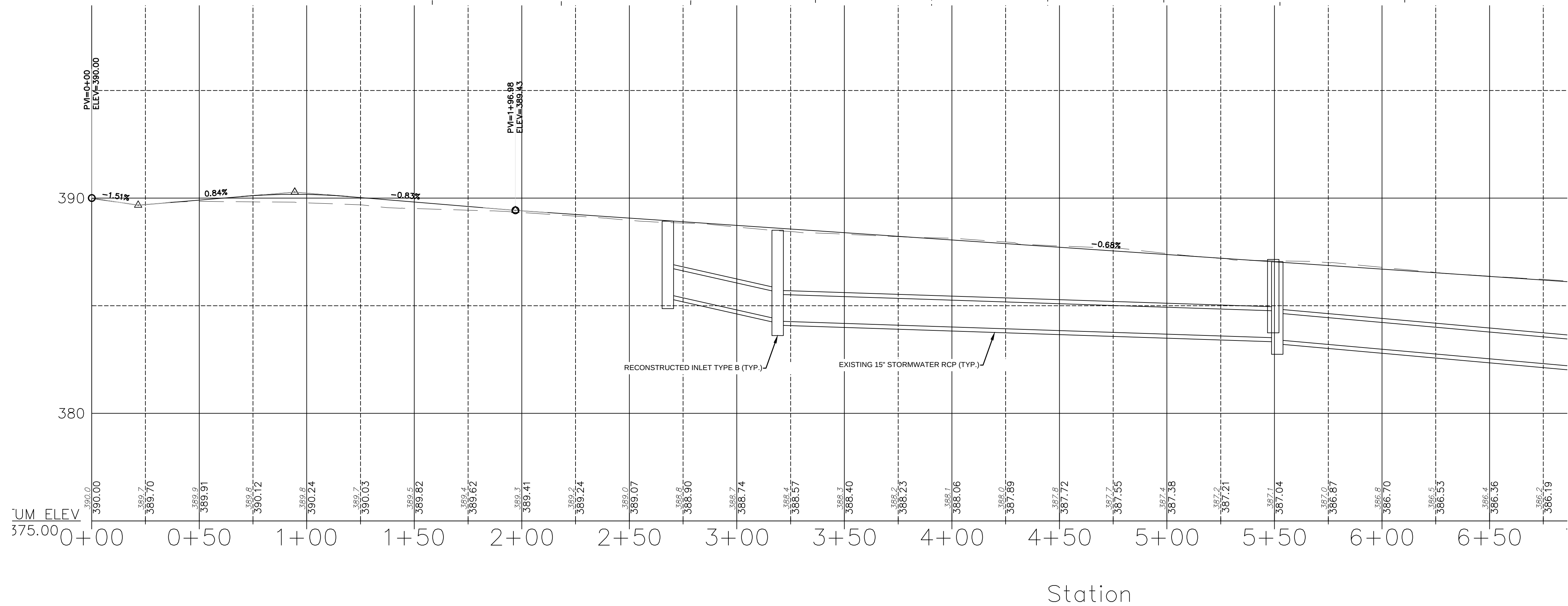
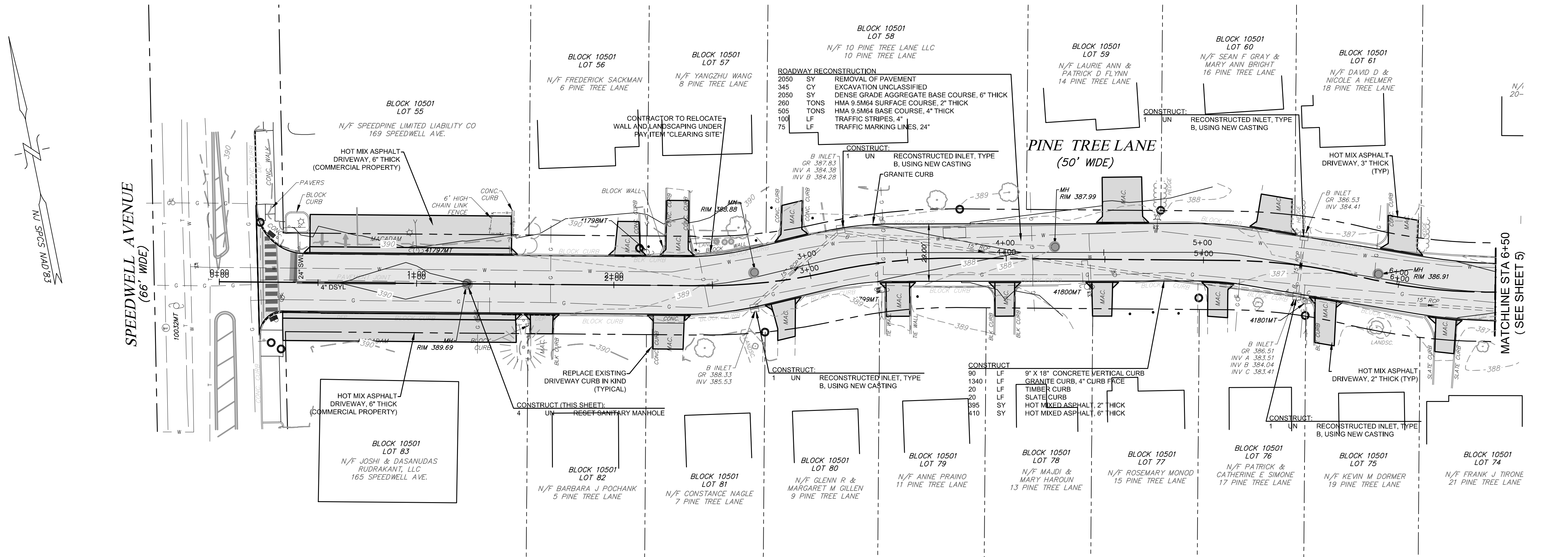
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NJ LLC CERT. No. 246A28132300

PROFILE PLAN 3 (STA 14+00 - 22+77)
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

11
35



		DATE:	JANUARY 2022
		SCALE:	1" = 30'
		DESIGNED BY:	TMO
		DRAWN BY:	JTB
		CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO. 2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275			

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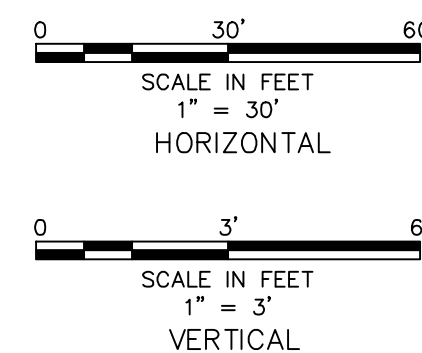
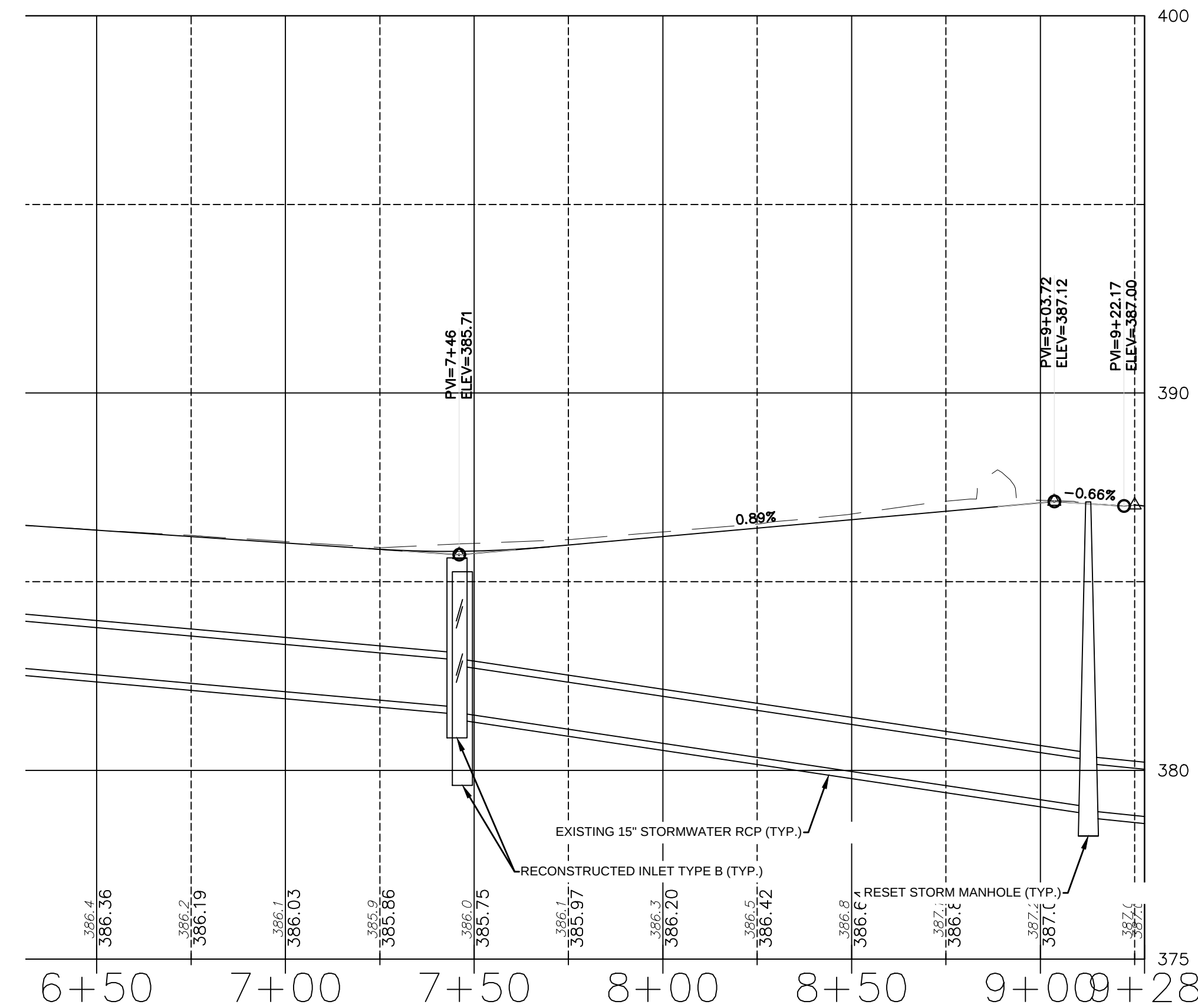
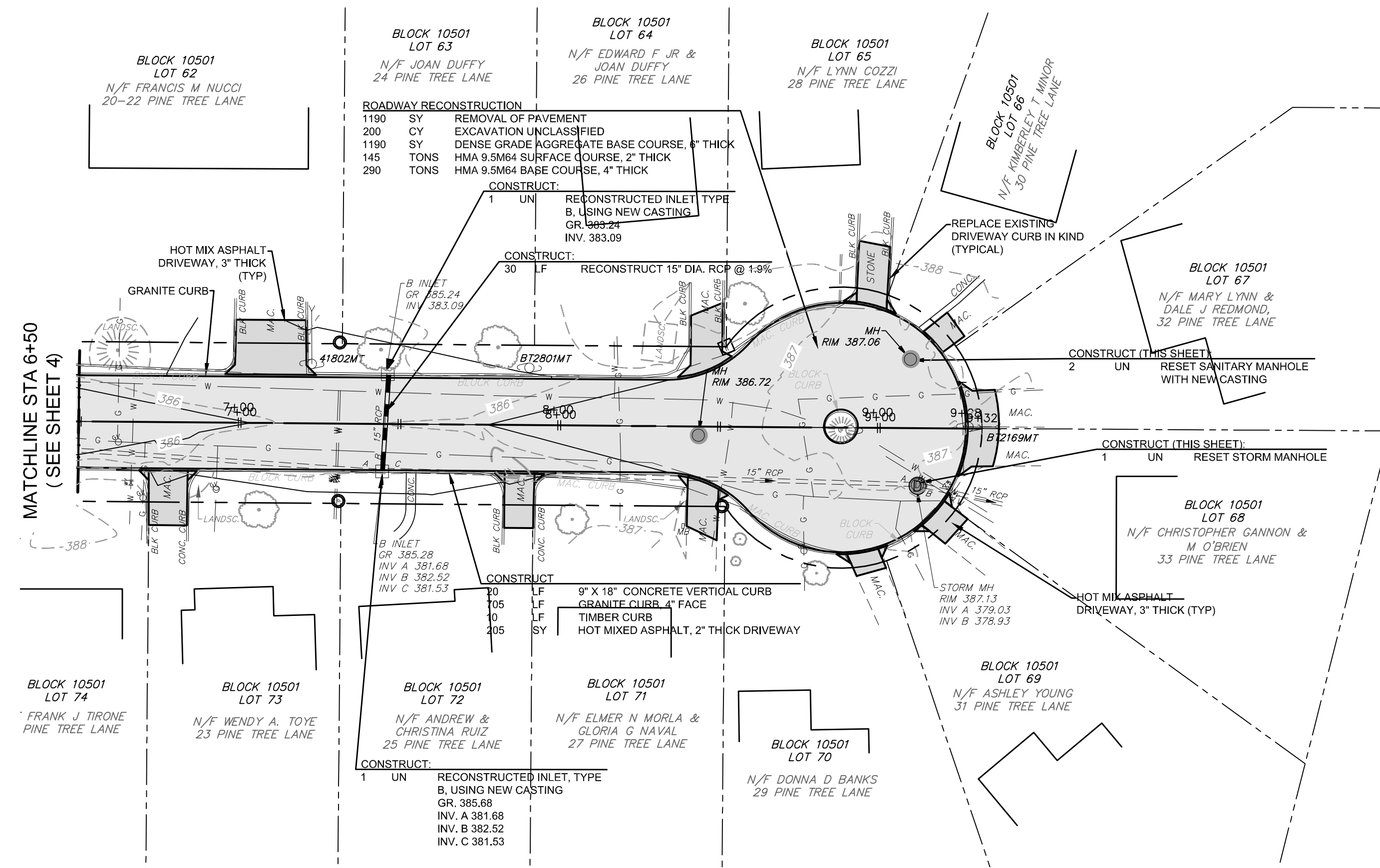
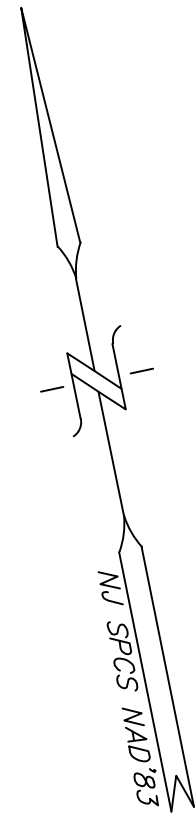
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Geotechnical Engineering
Water / Wastewater
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Land Surveying
Professional Planning
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NJ LLC CERT. No. 246A28132320

CONSTRUCTION AND PROFILE PLAN 1 (STA 0+00 - 6+50)
OF
PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

12
35



			DATE:	JANUARY 2022
			SCALE:	1" = 30'
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				

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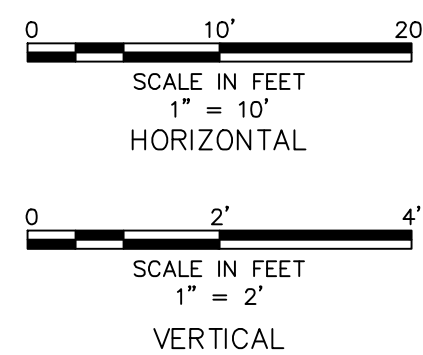
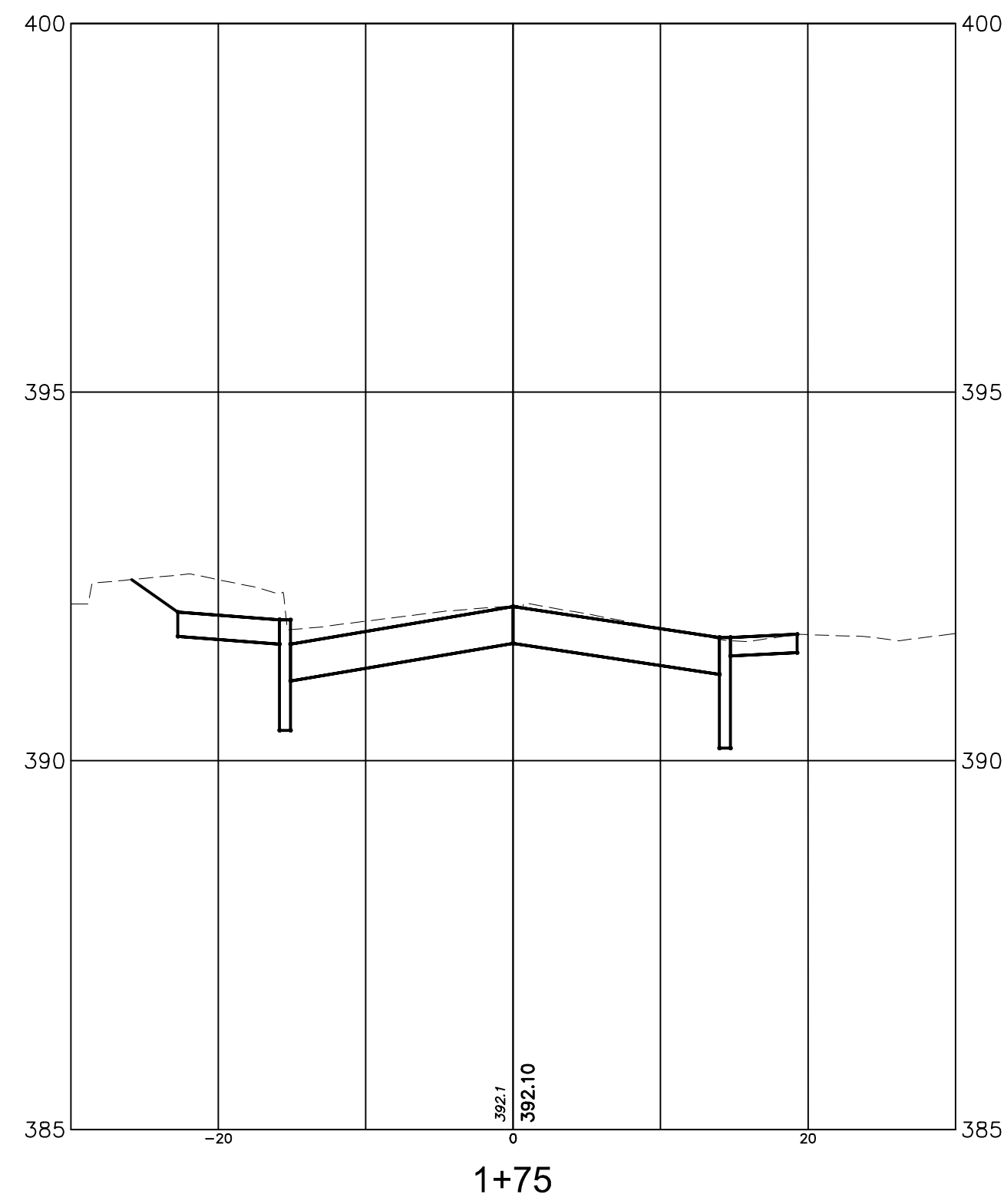
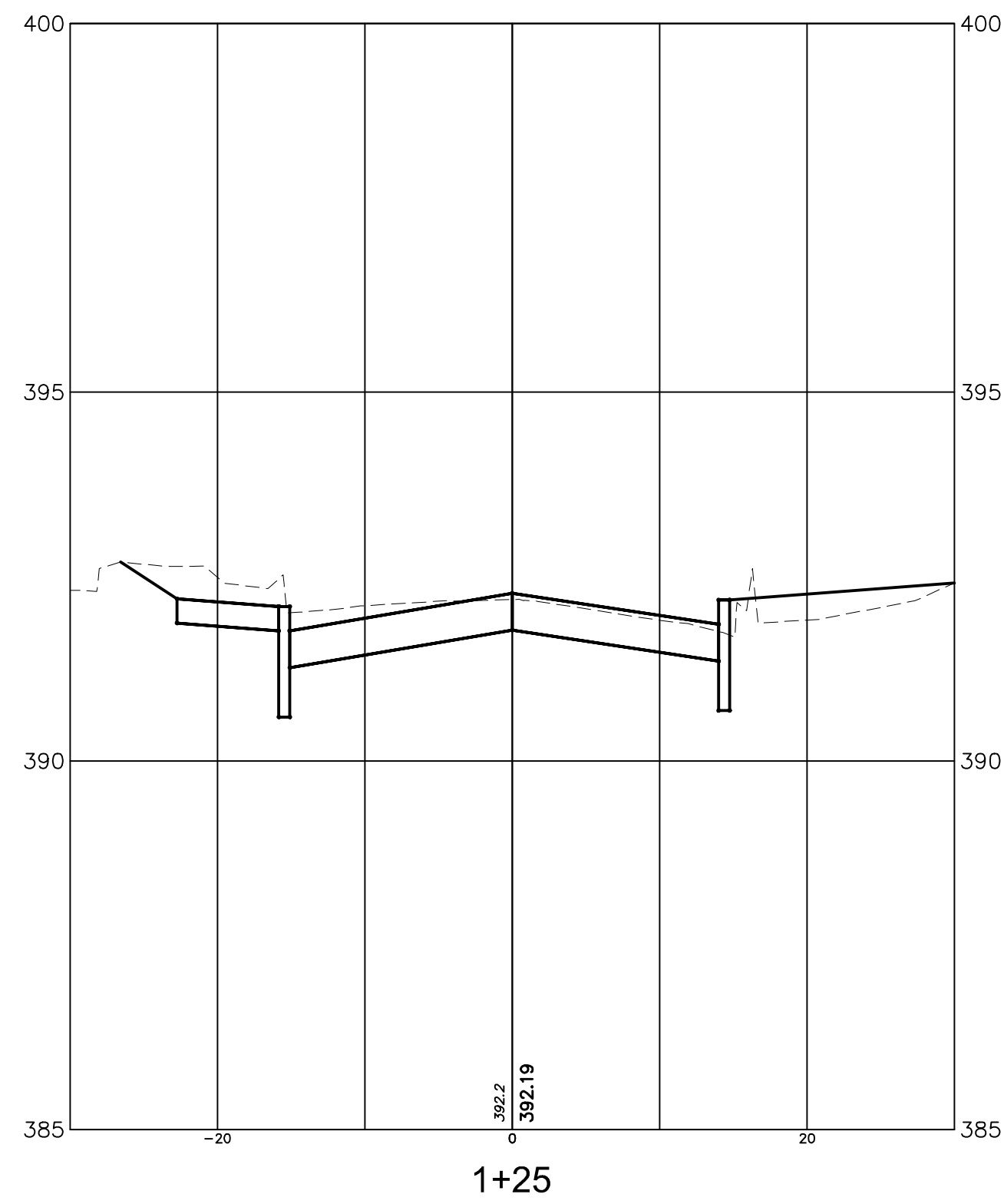
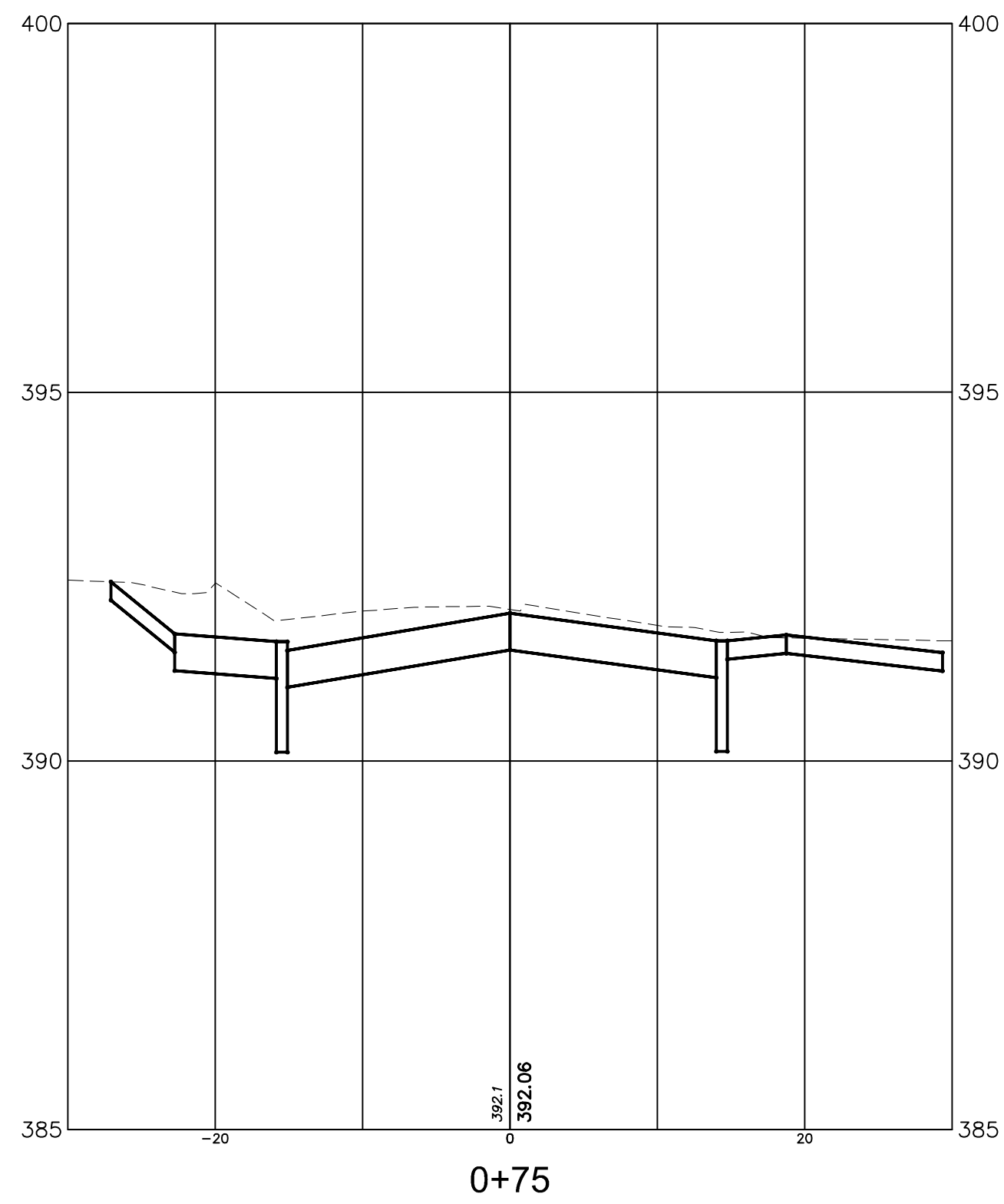
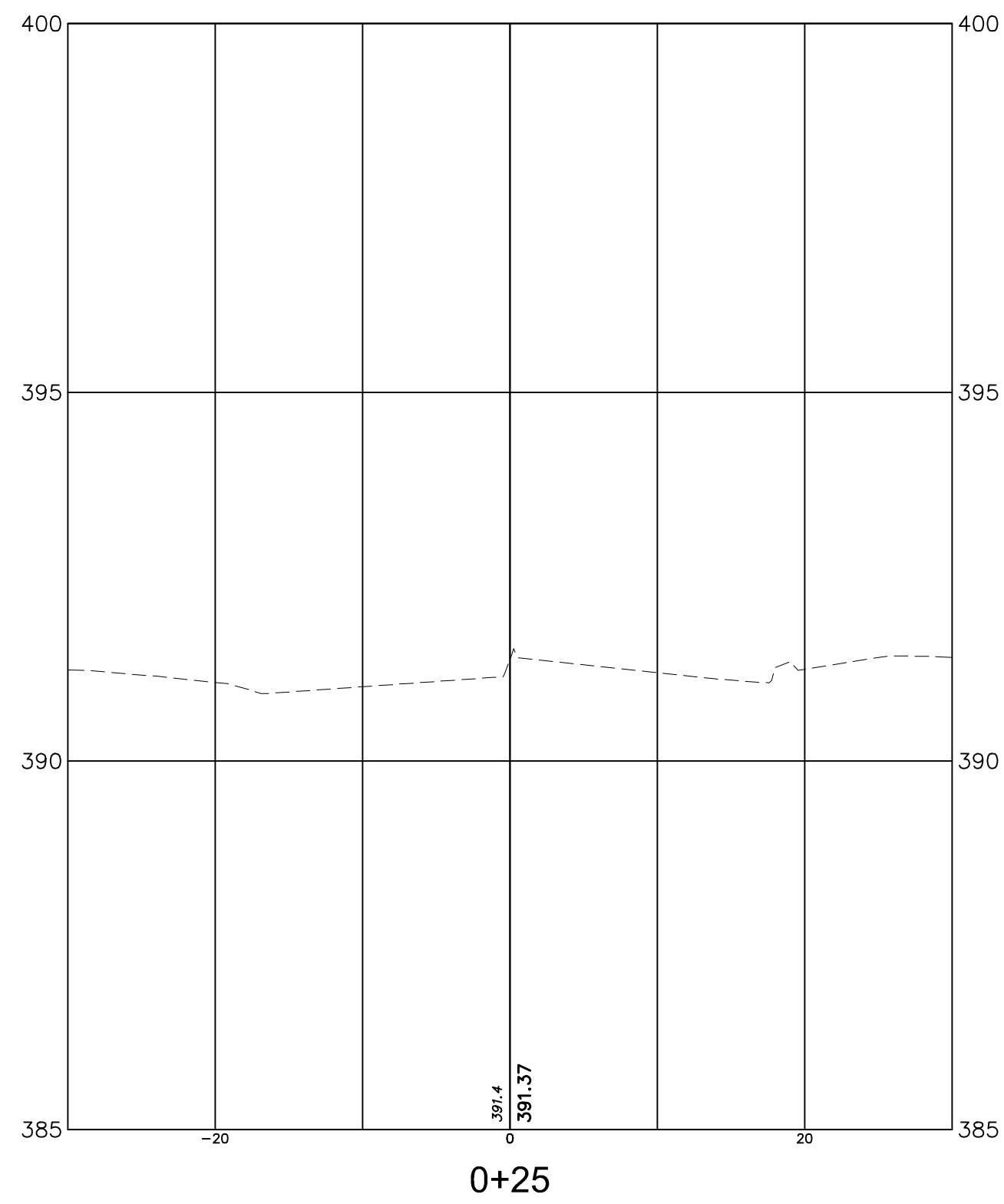
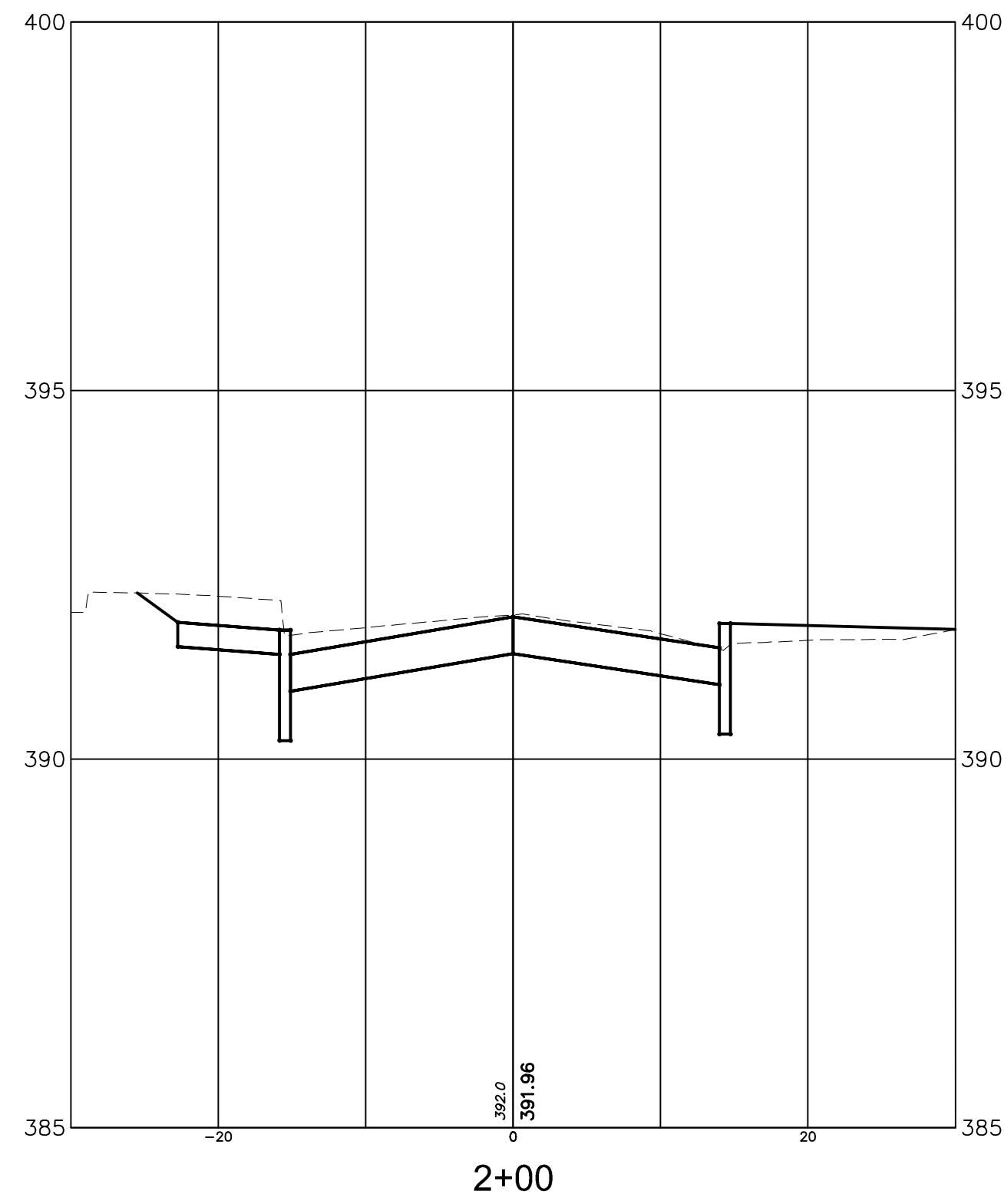
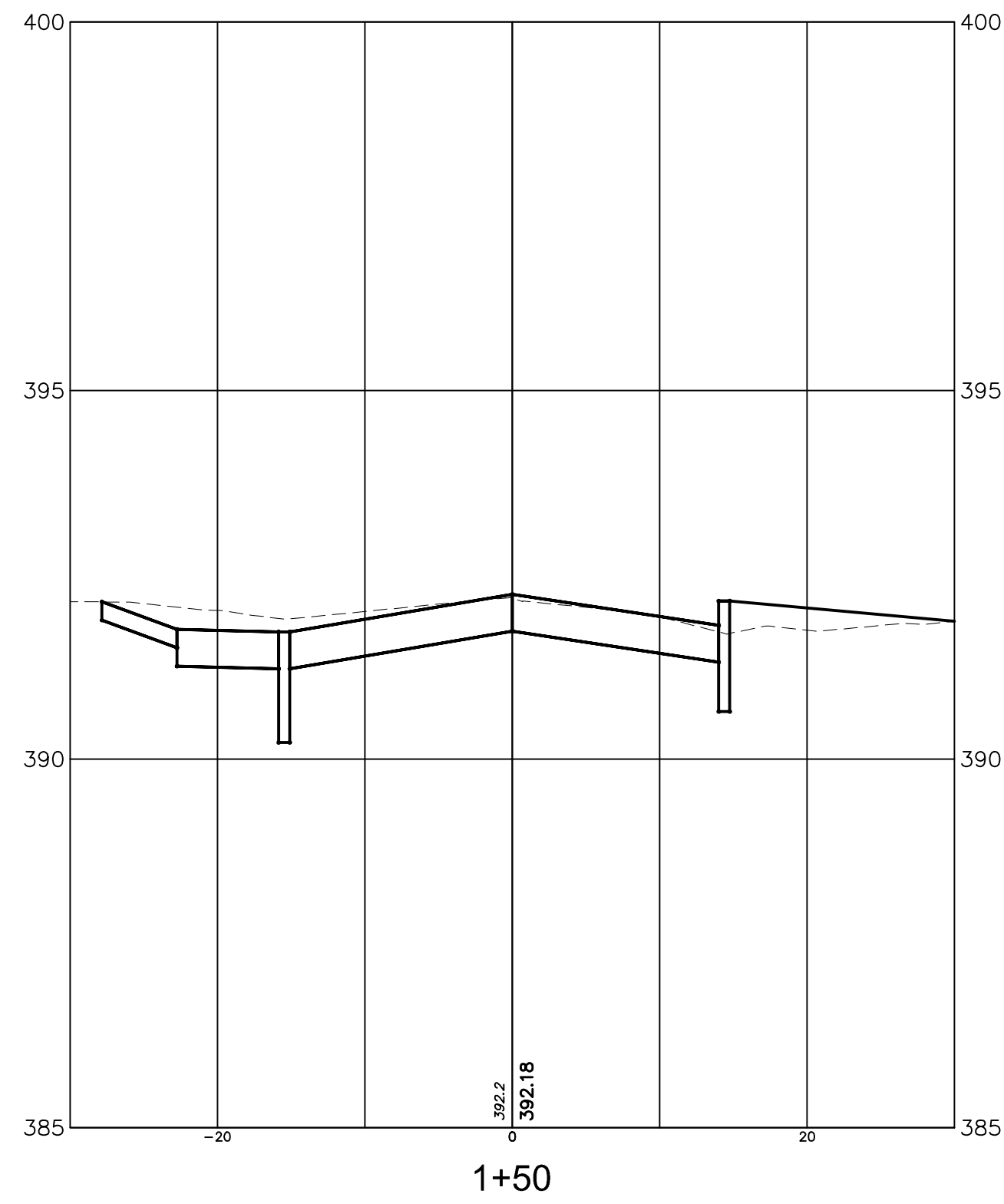
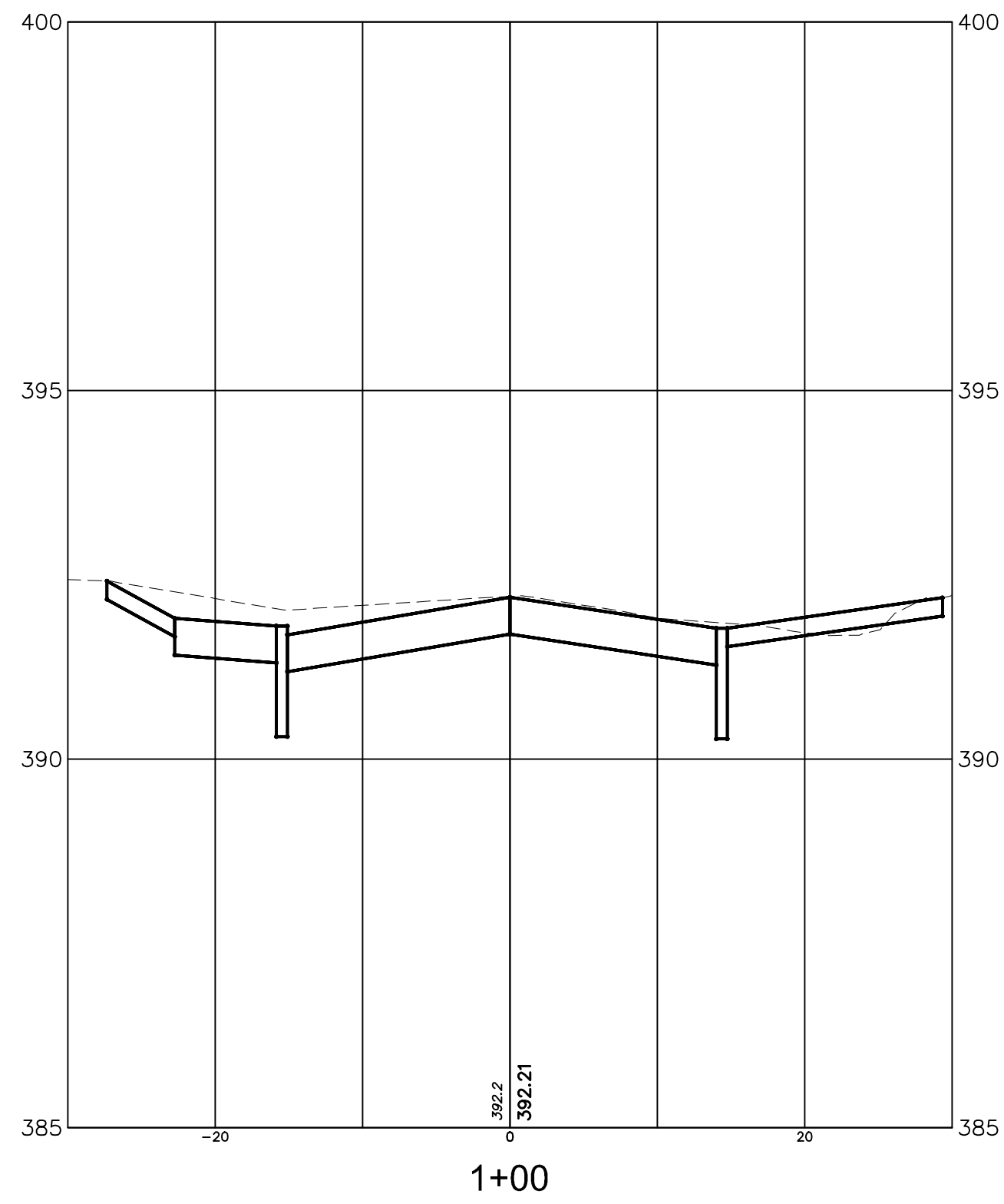
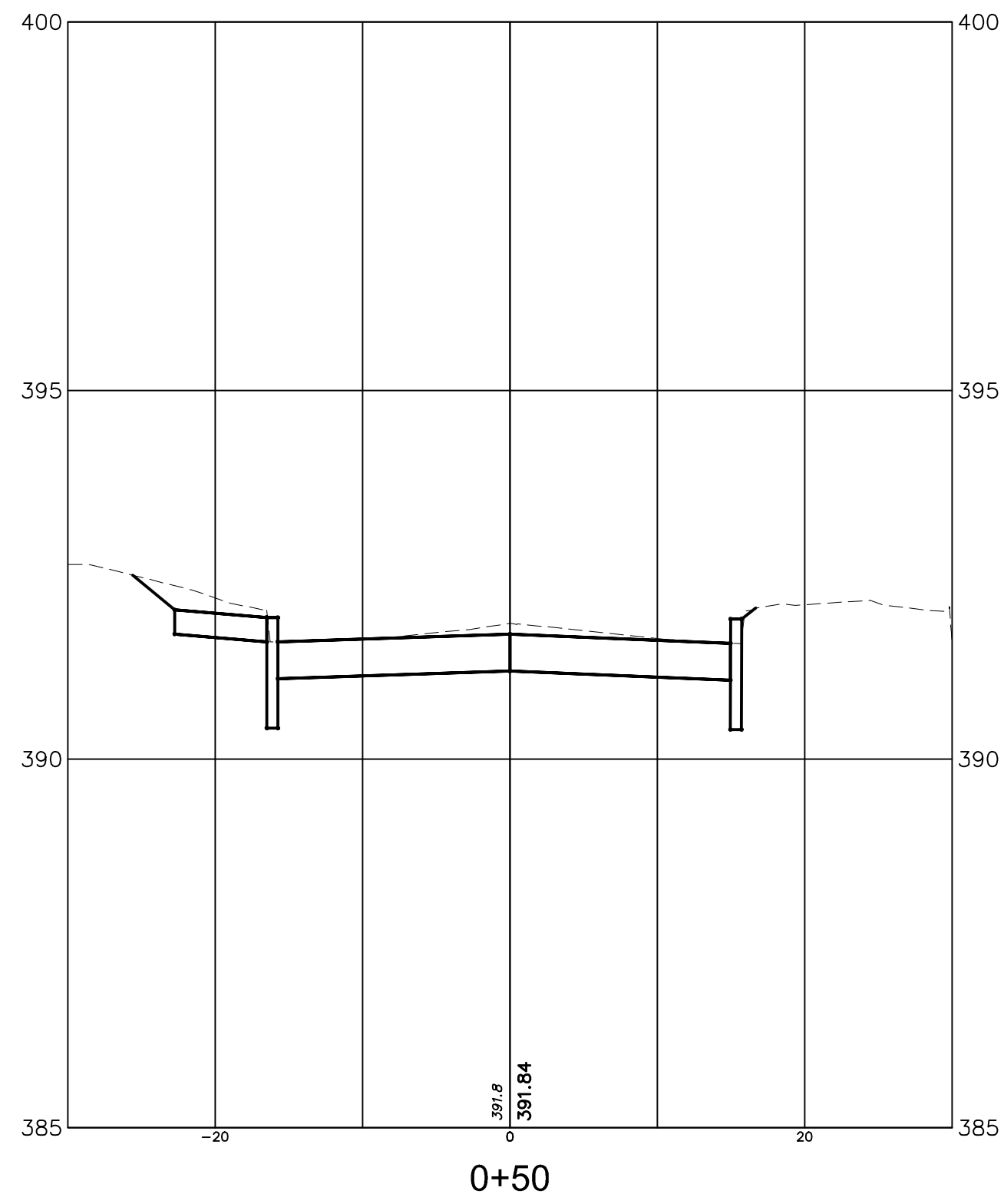
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CONSTRUCTION AND PROFILE PLAN 2 (STA 6+50 - 9+28)
OF
PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

13
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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
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Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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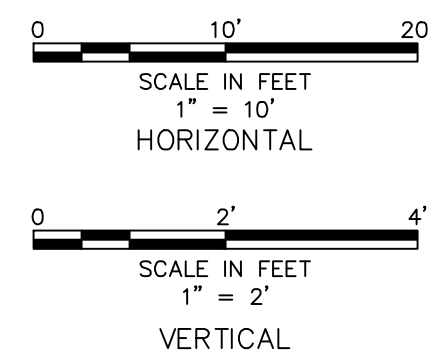
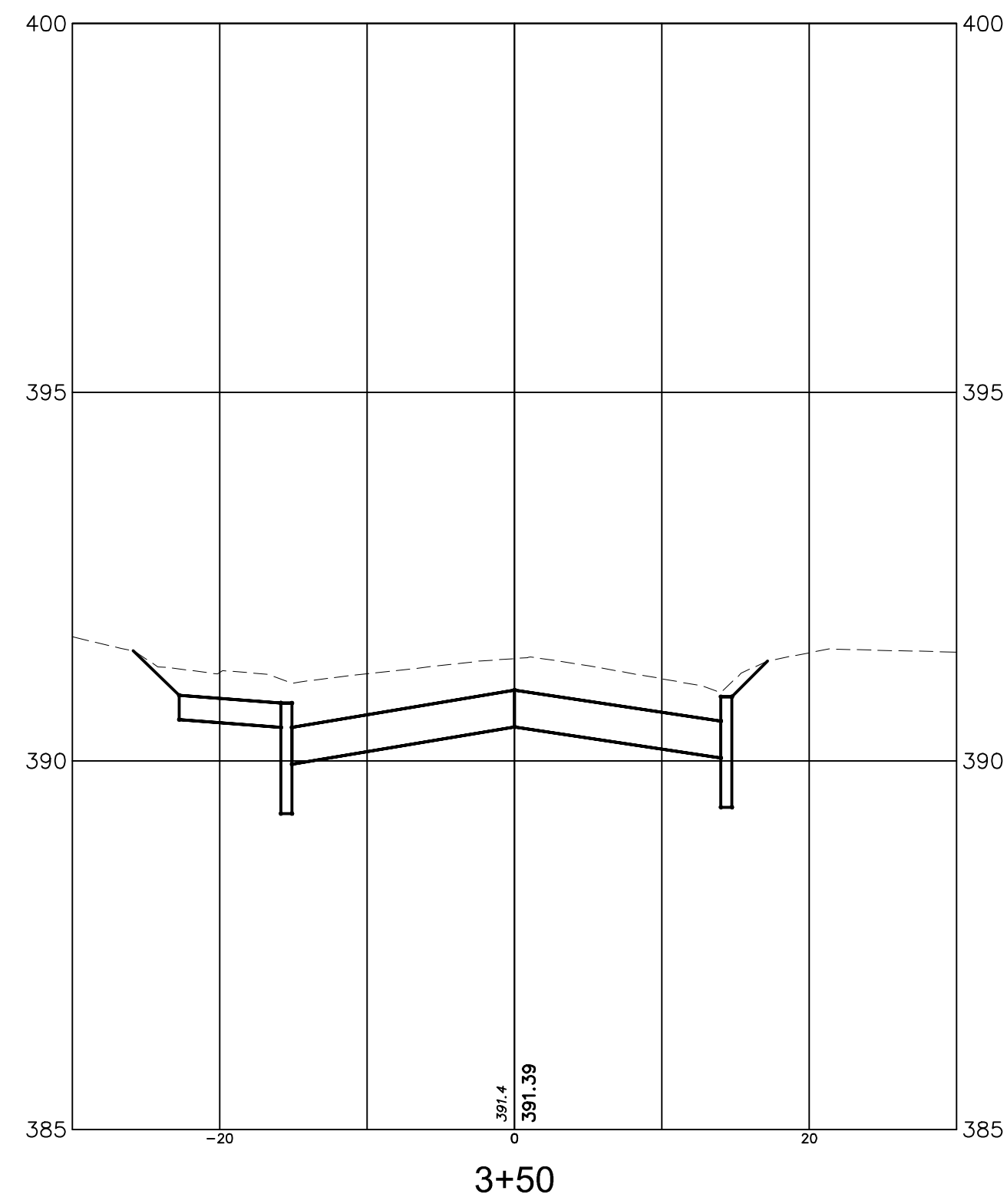
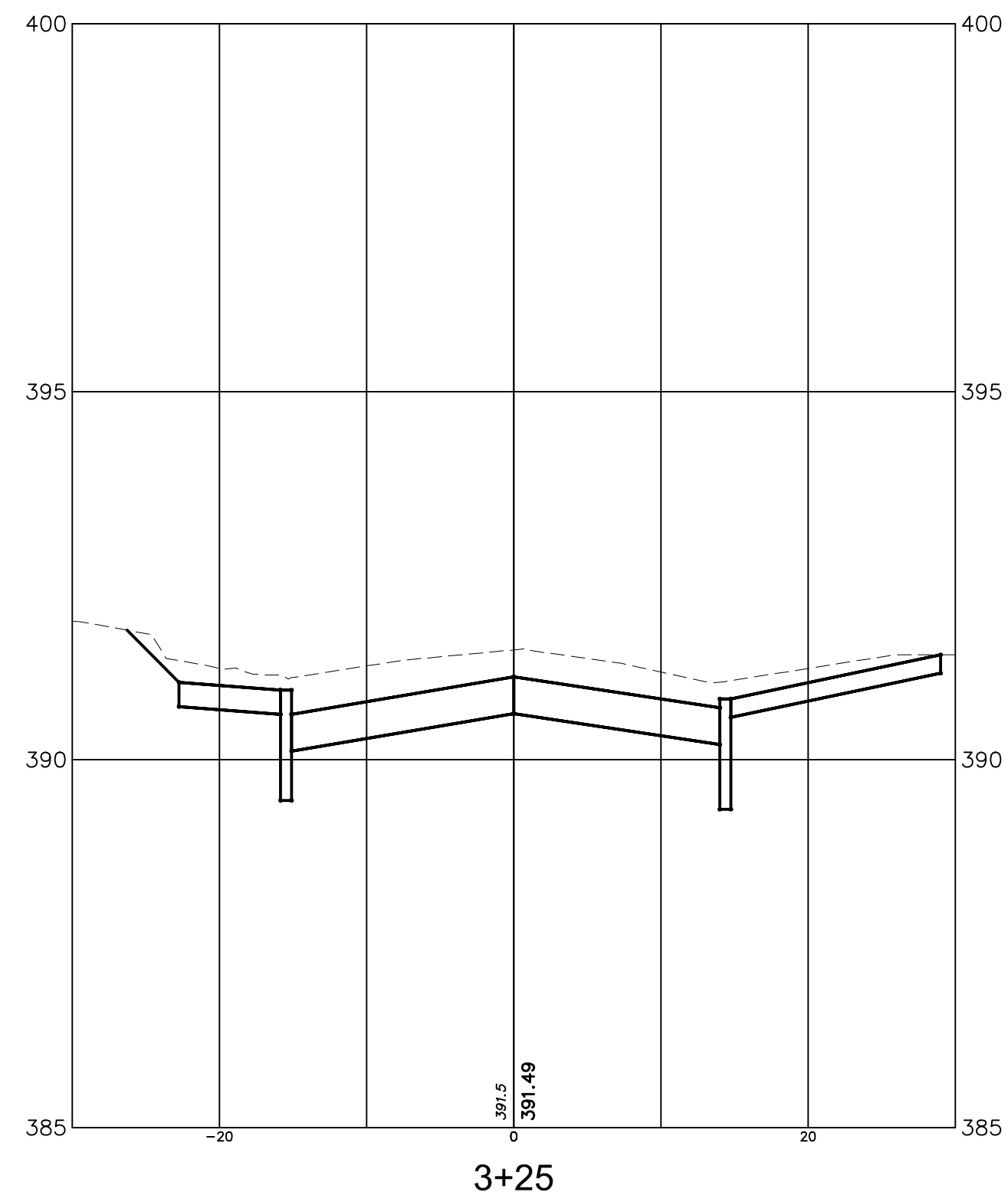
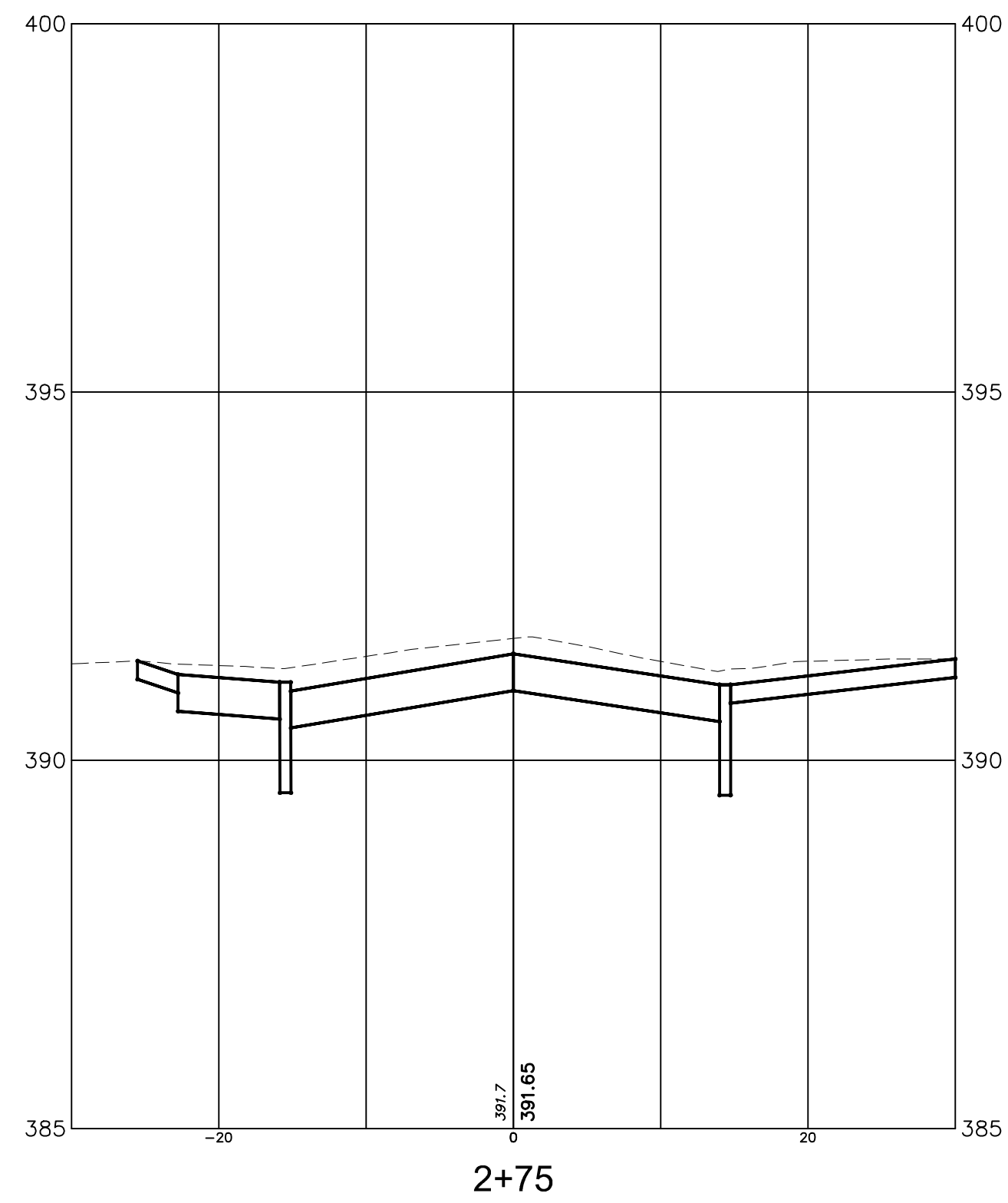
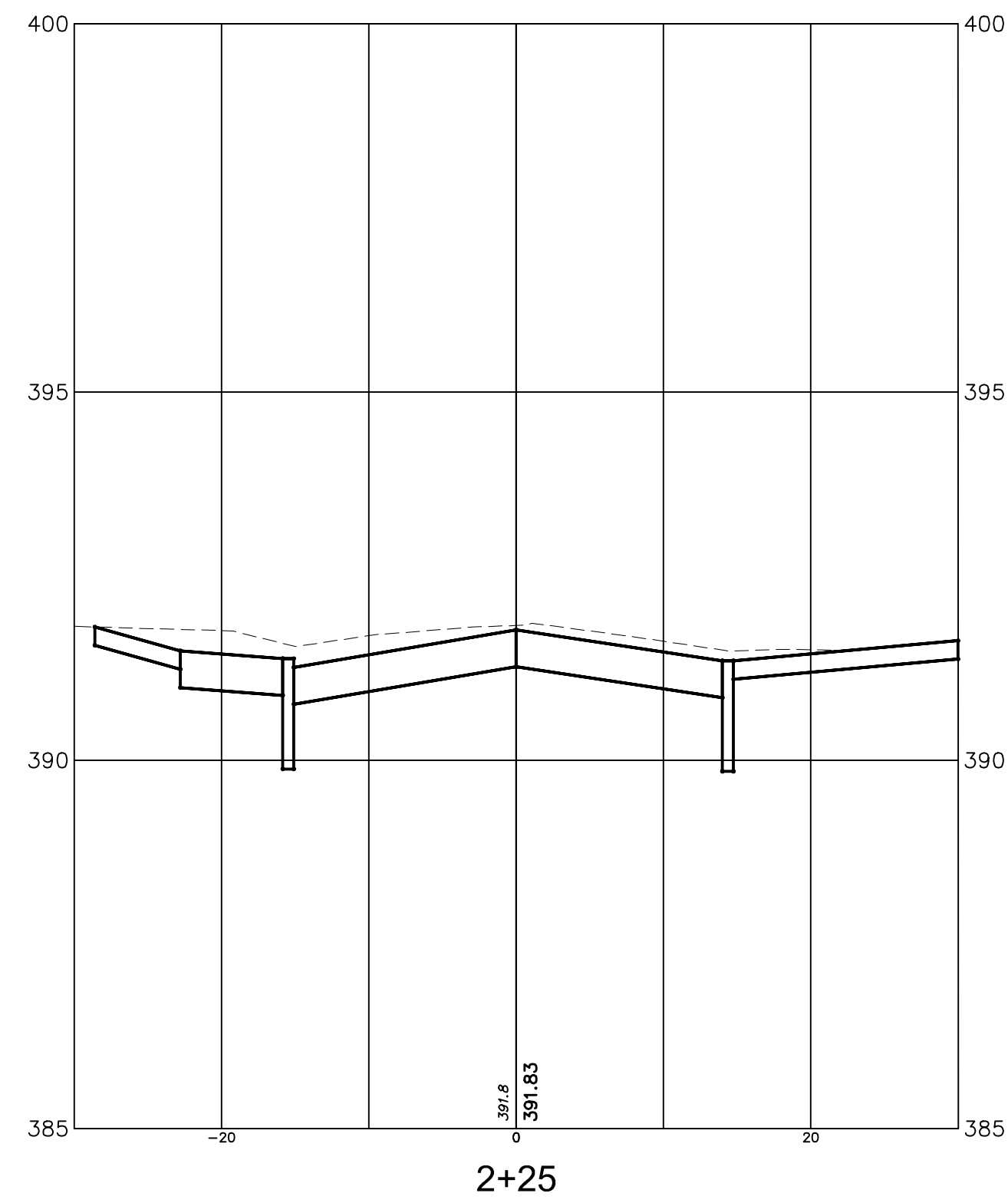
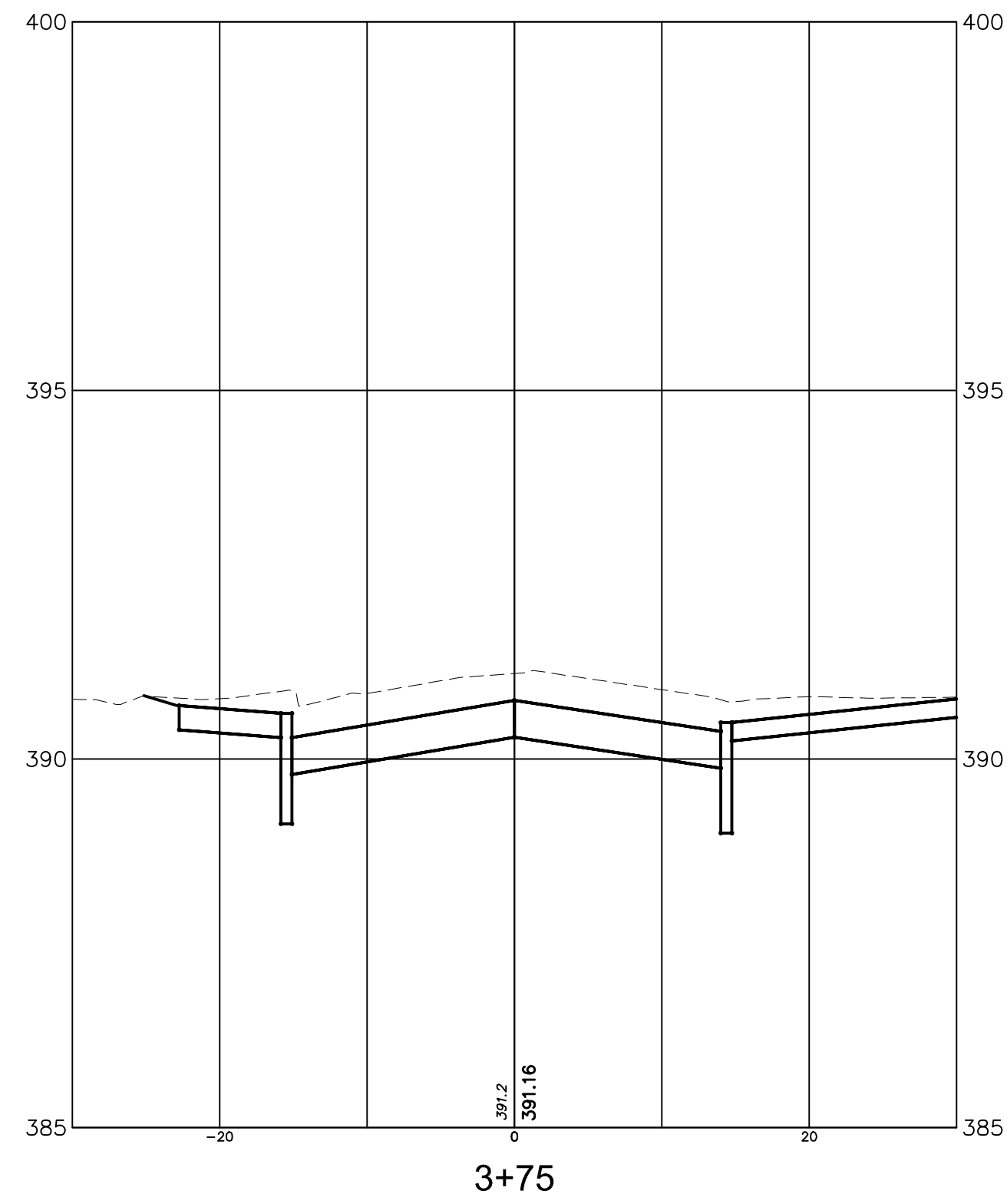
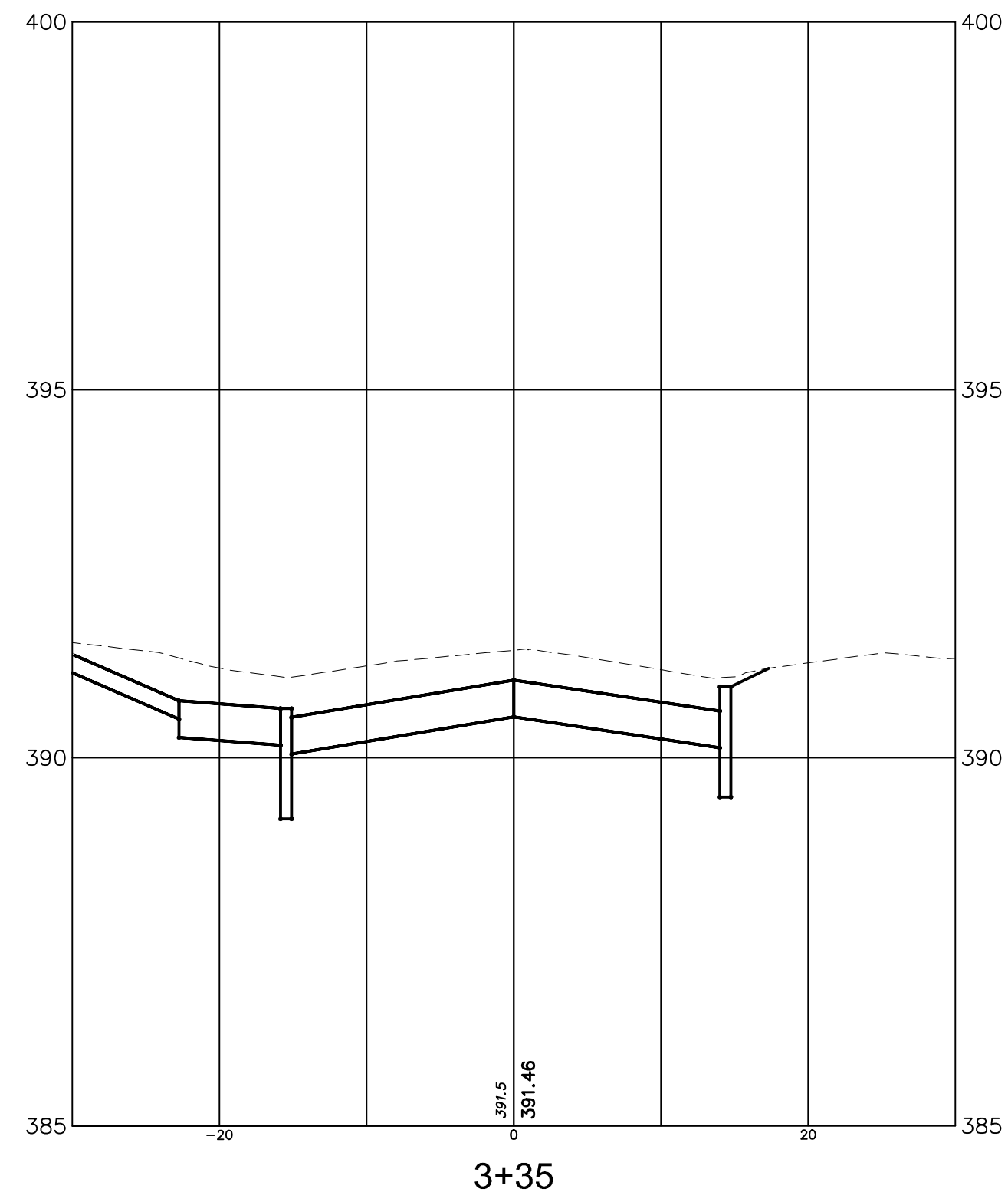
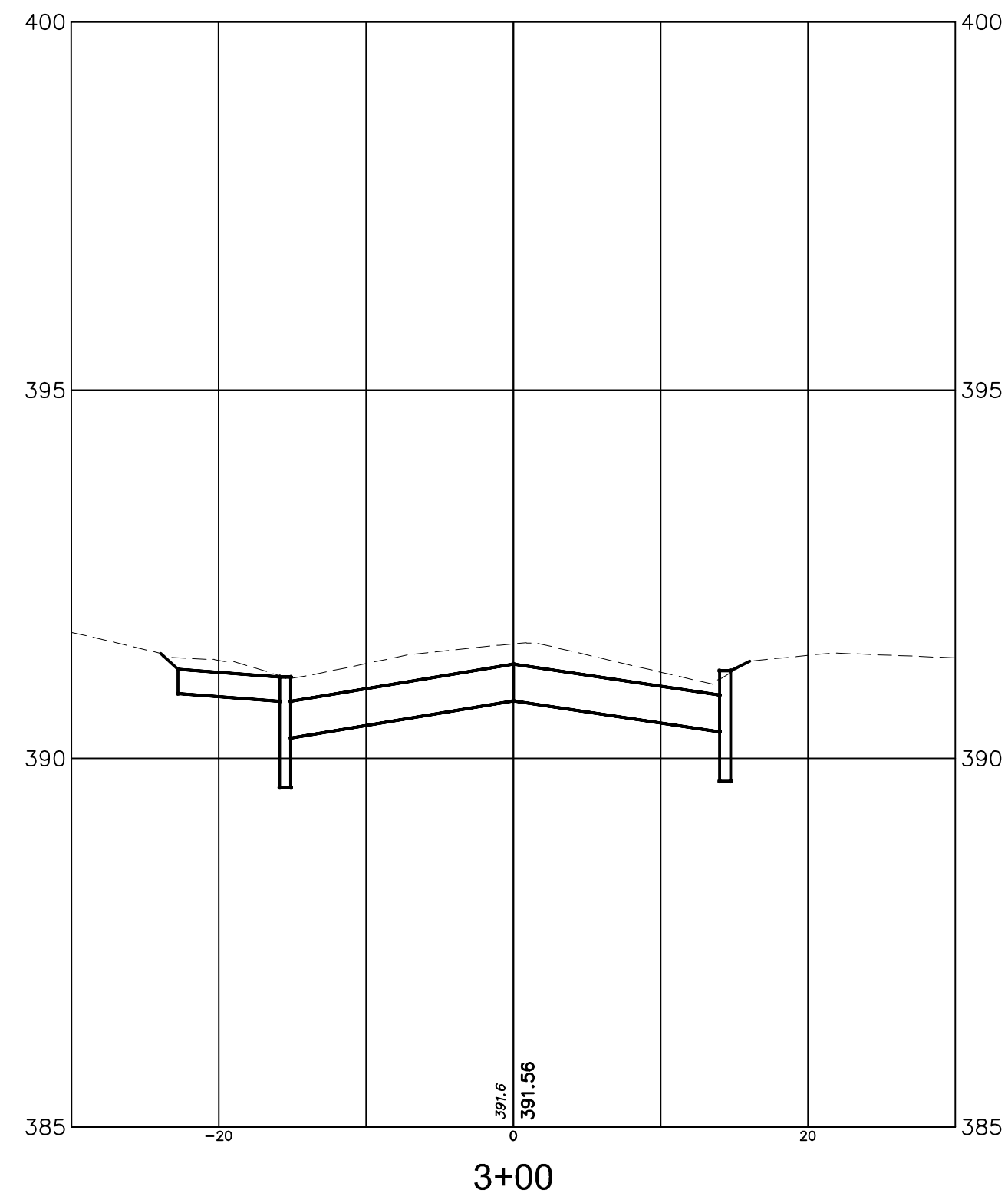
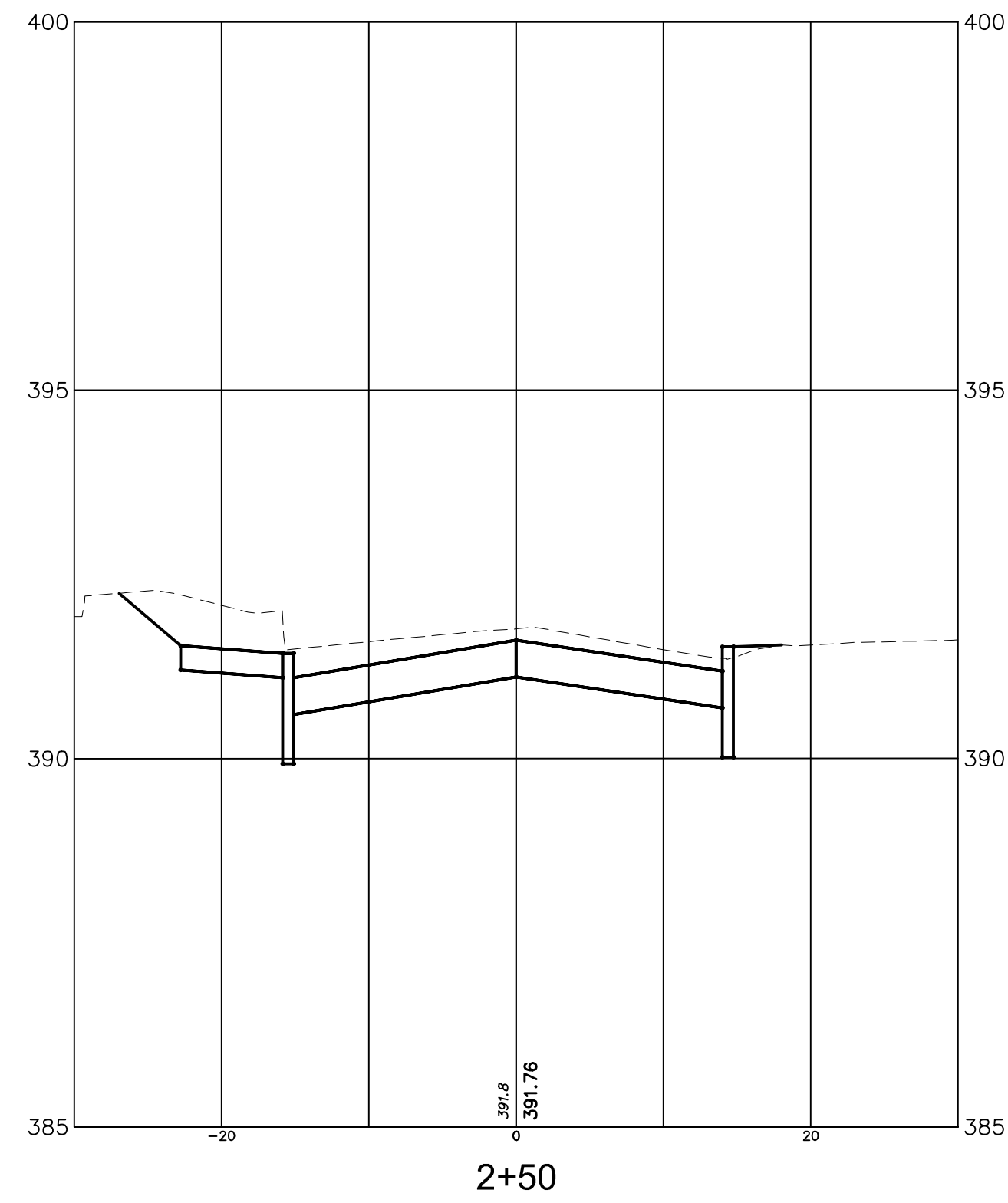
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CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
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35

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			DRAWN BY:	JTB
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Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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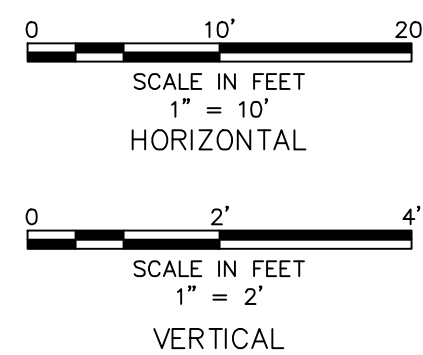
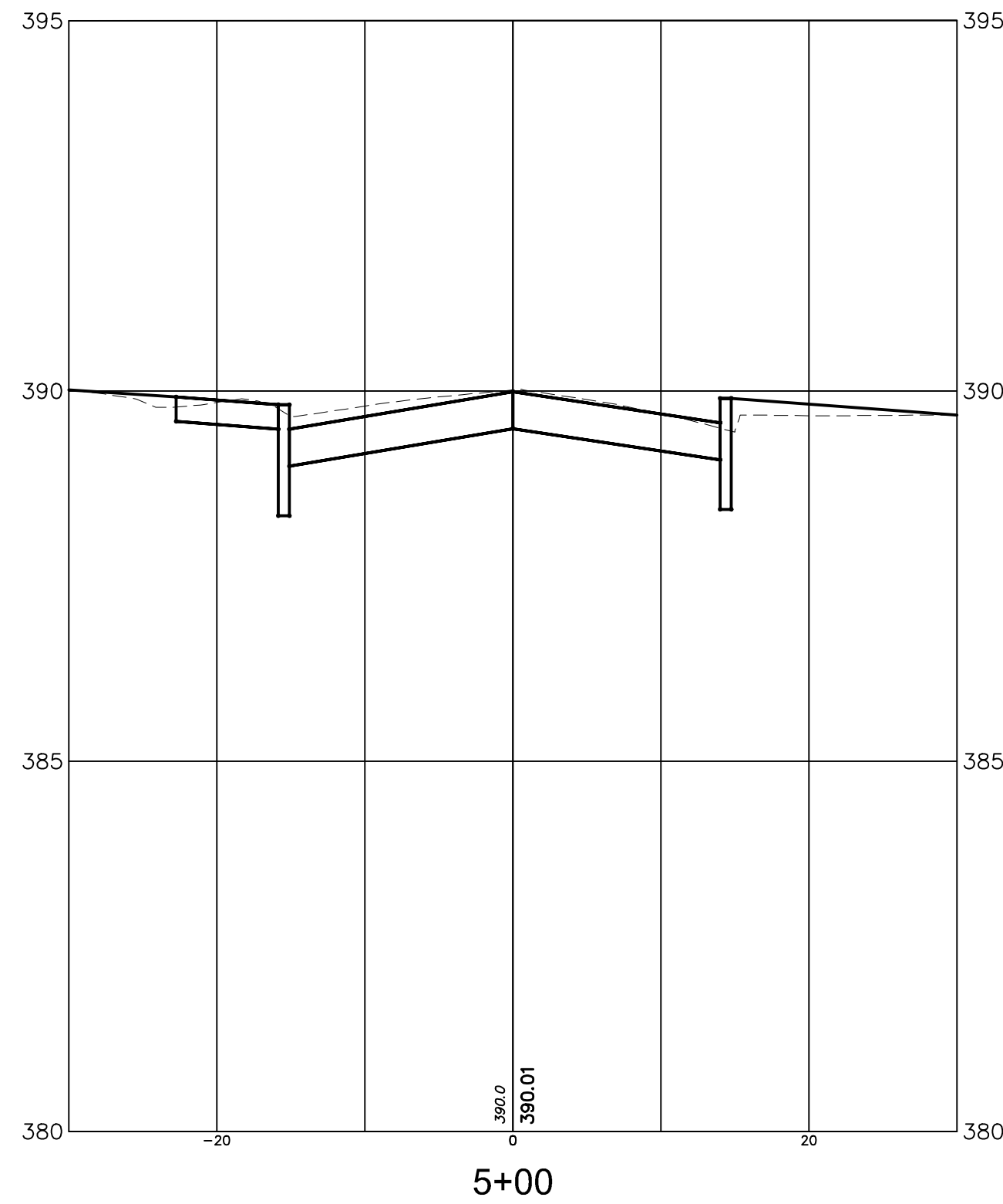
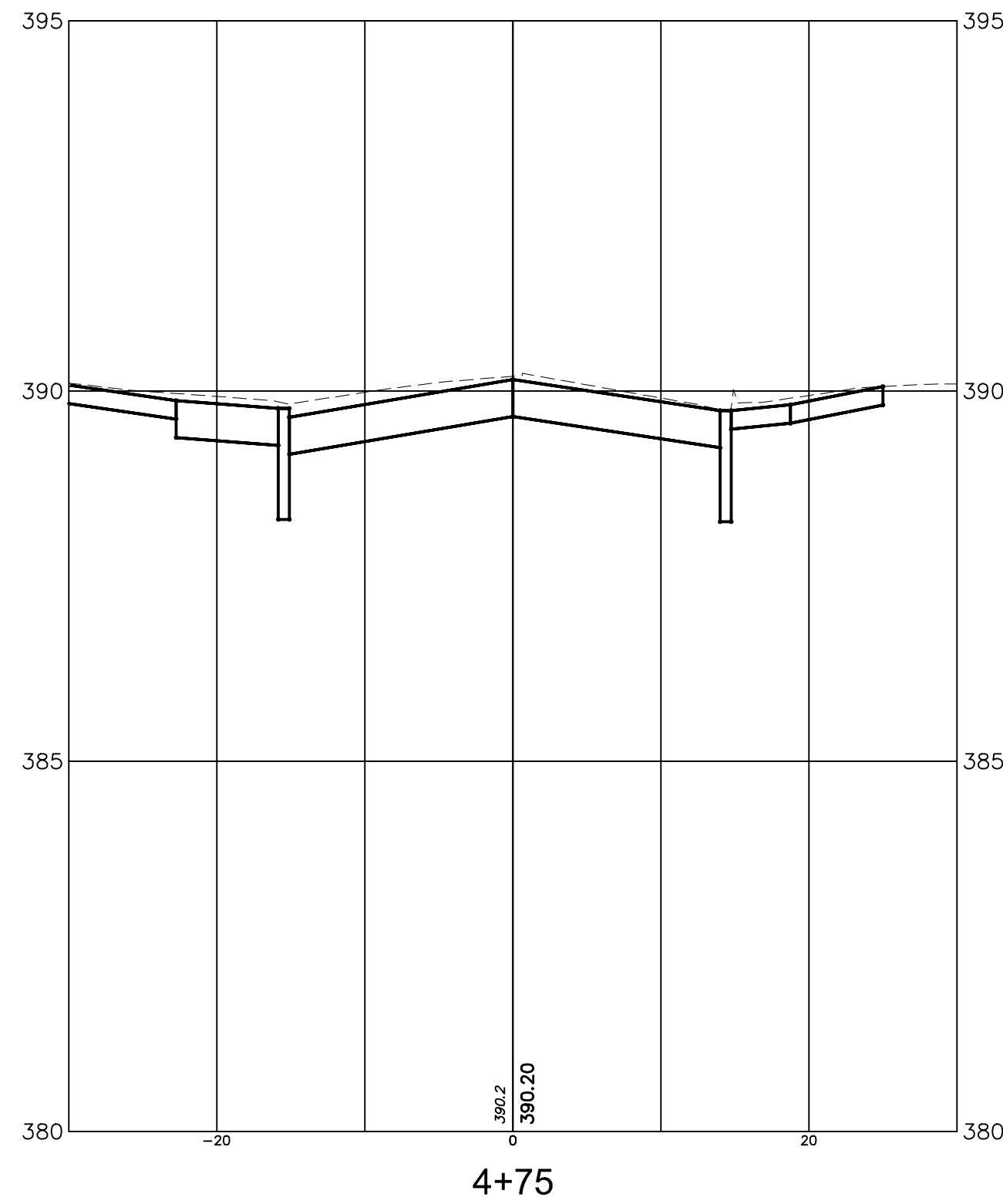
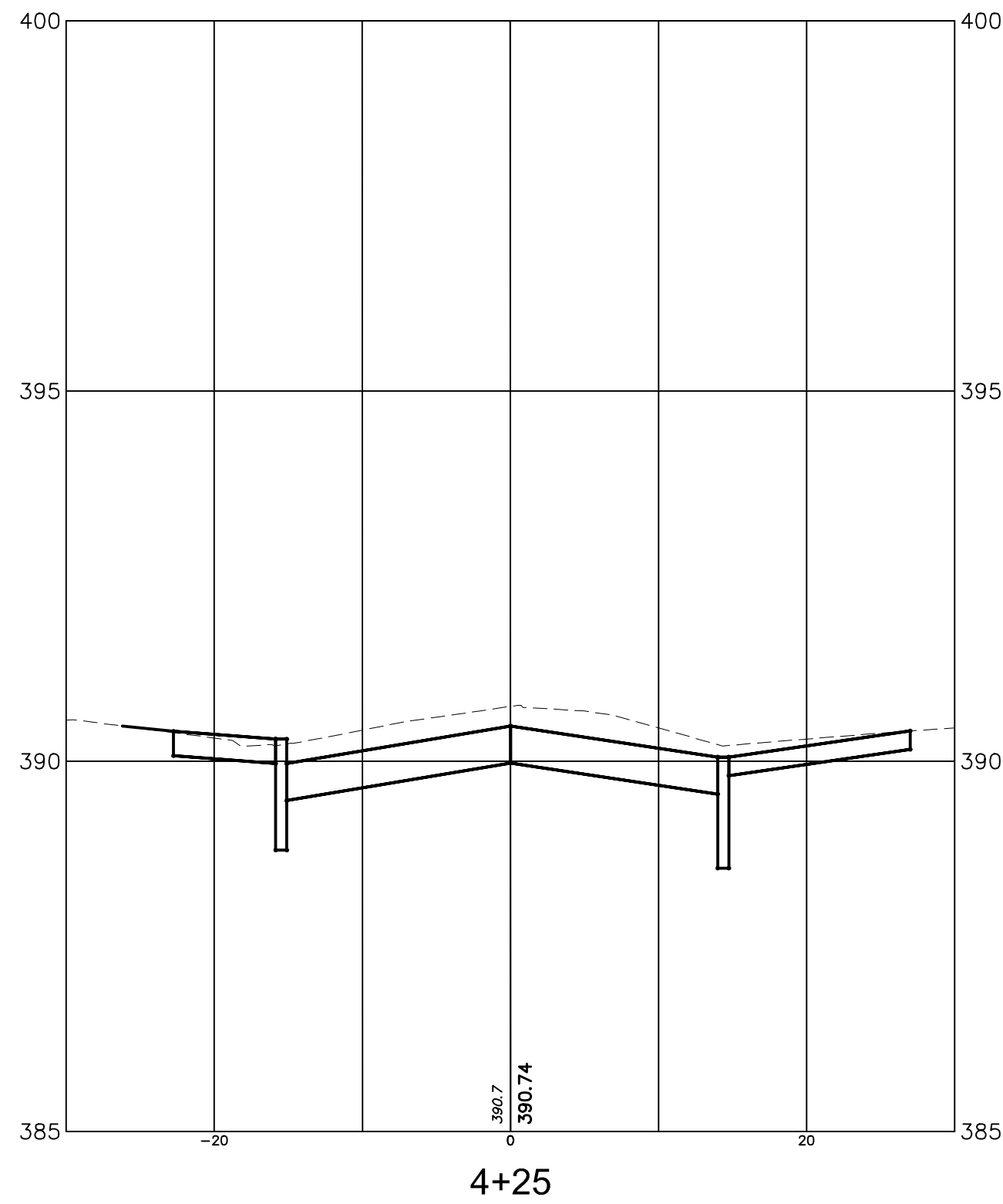
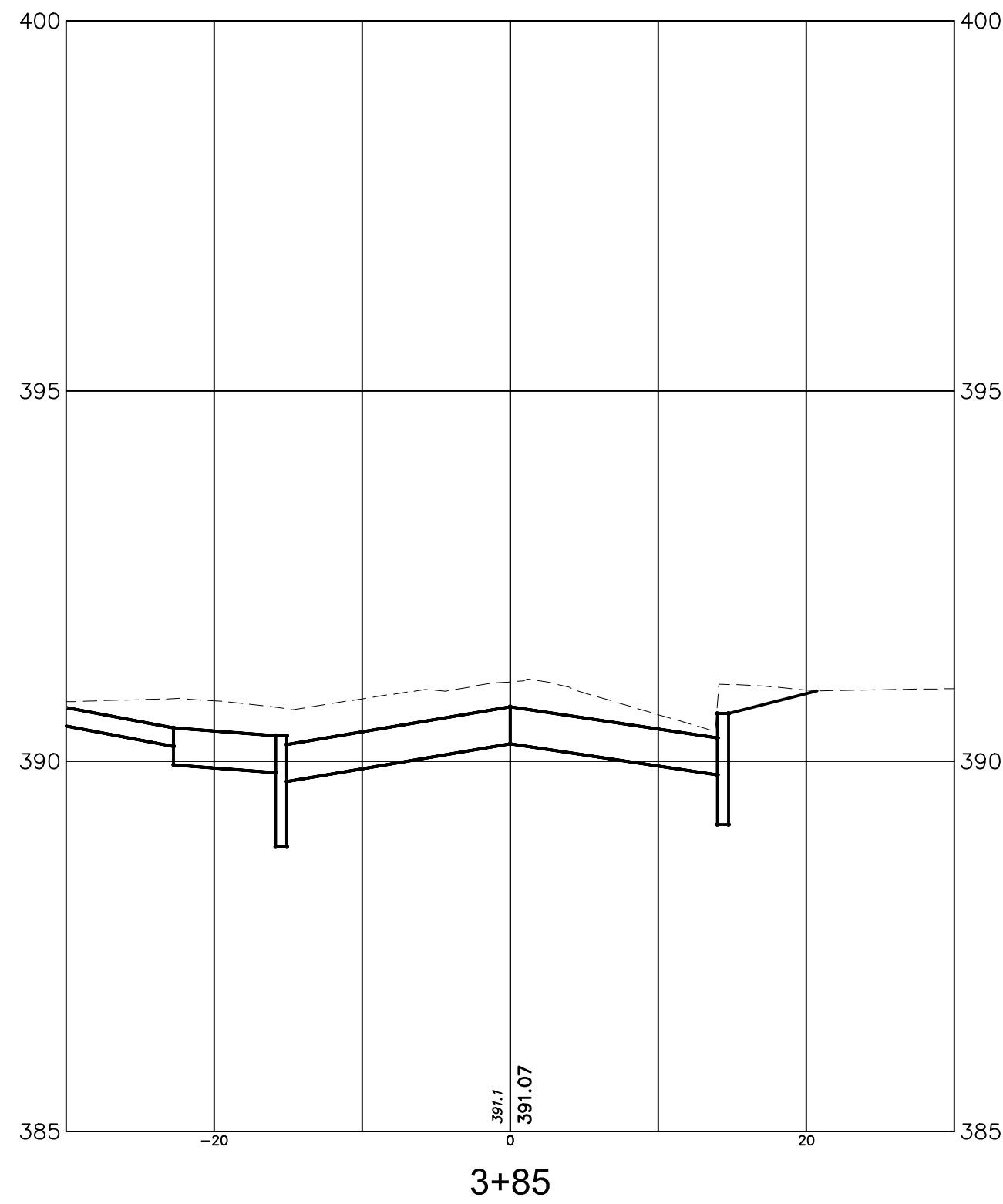
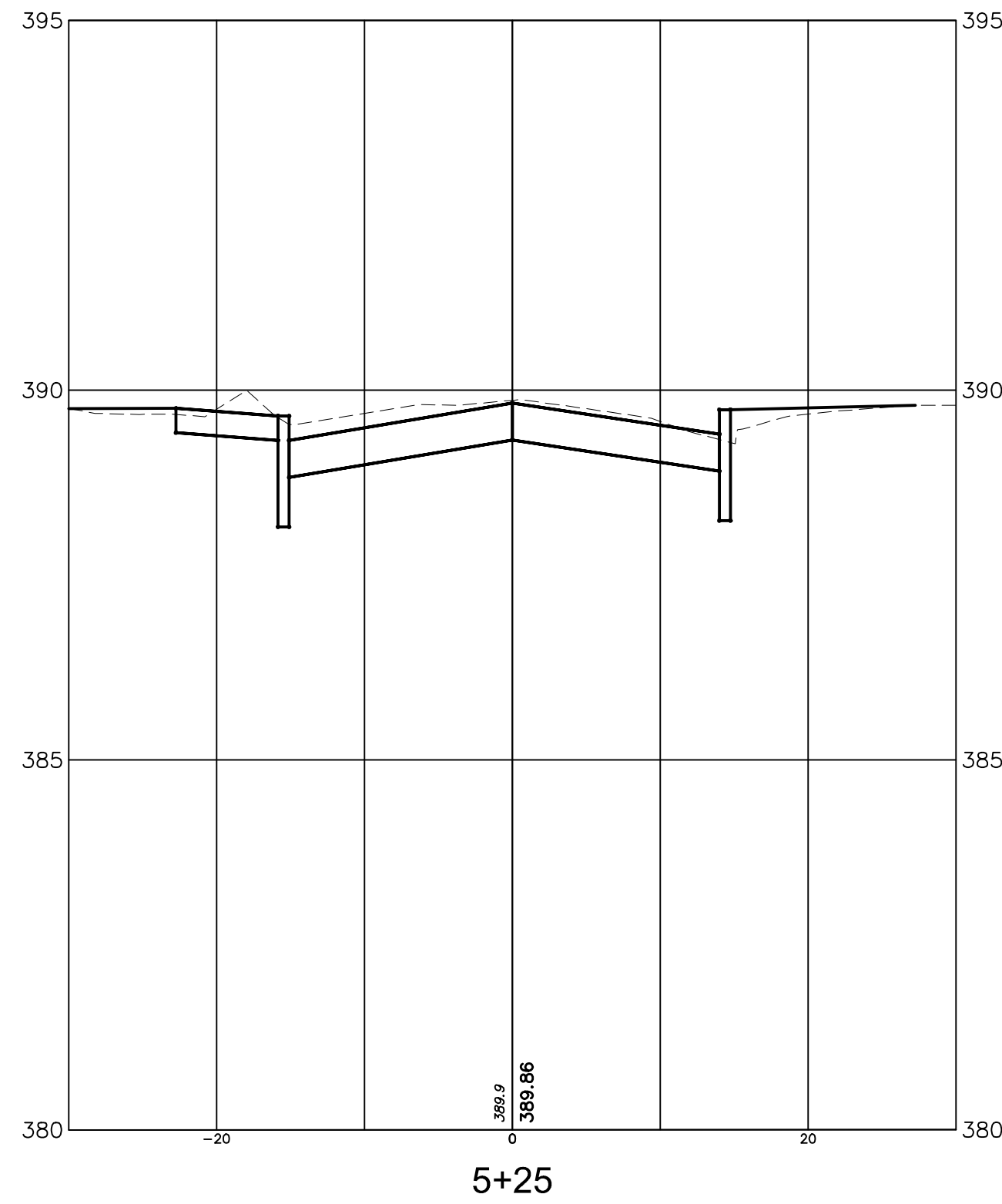
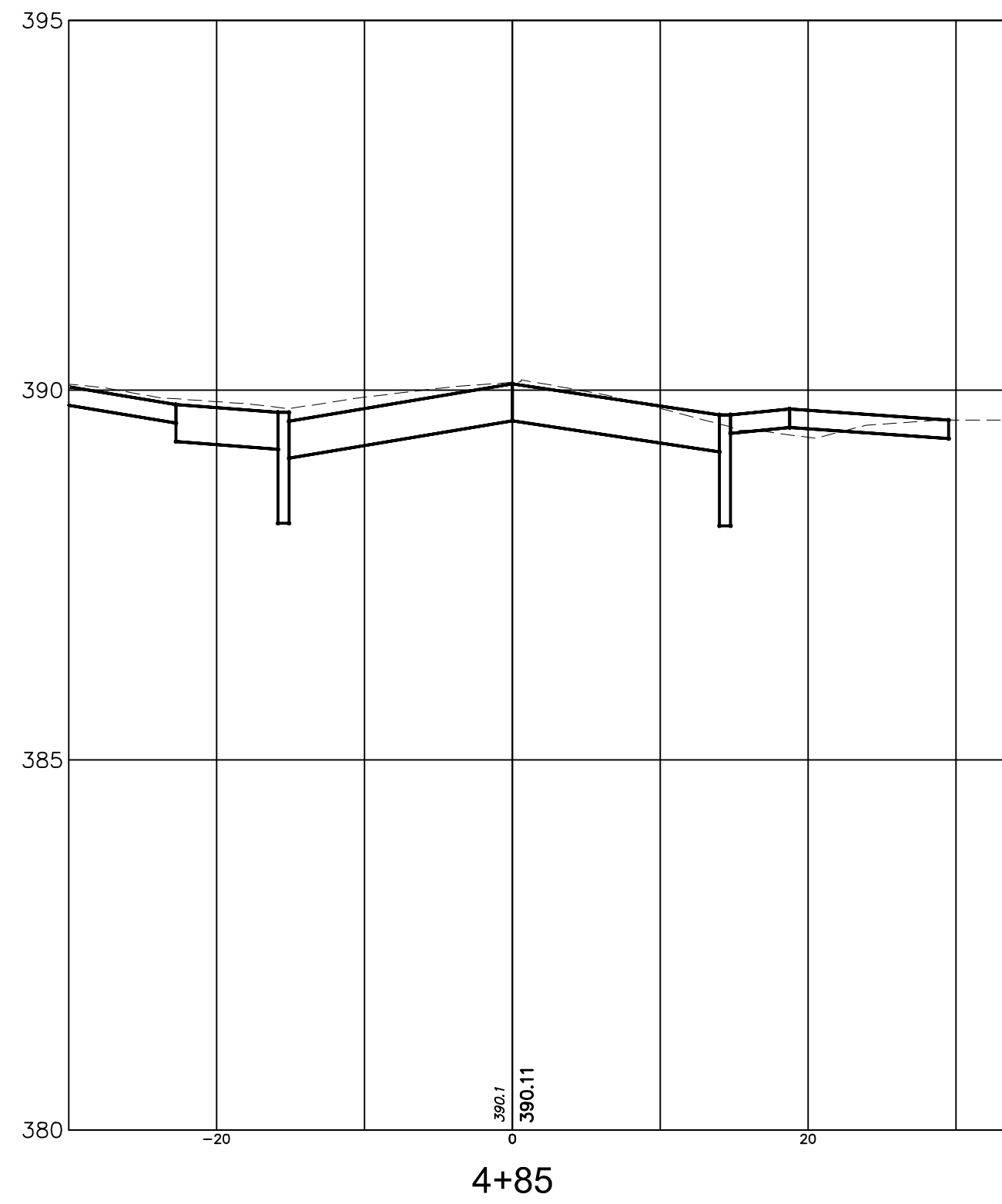
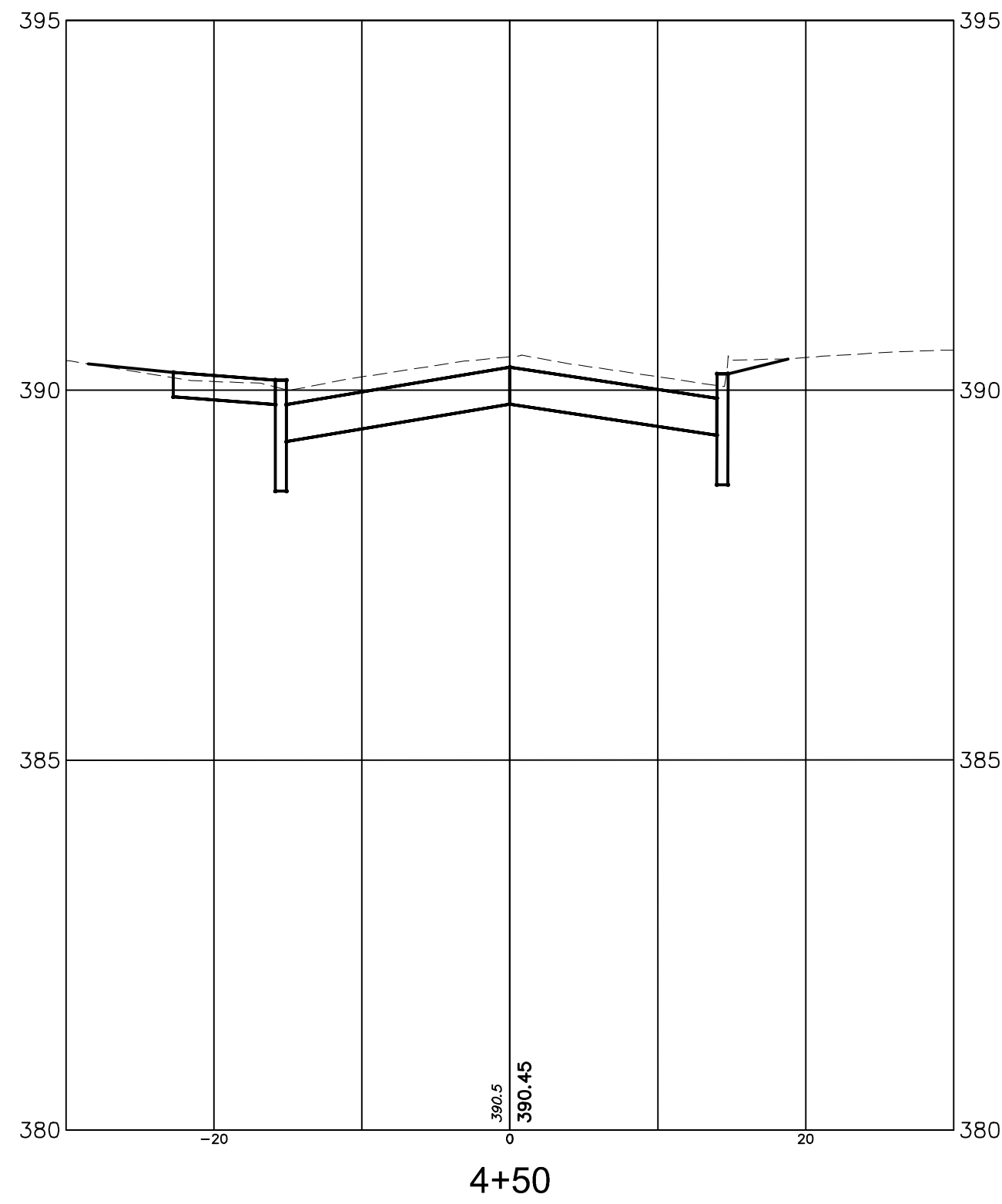
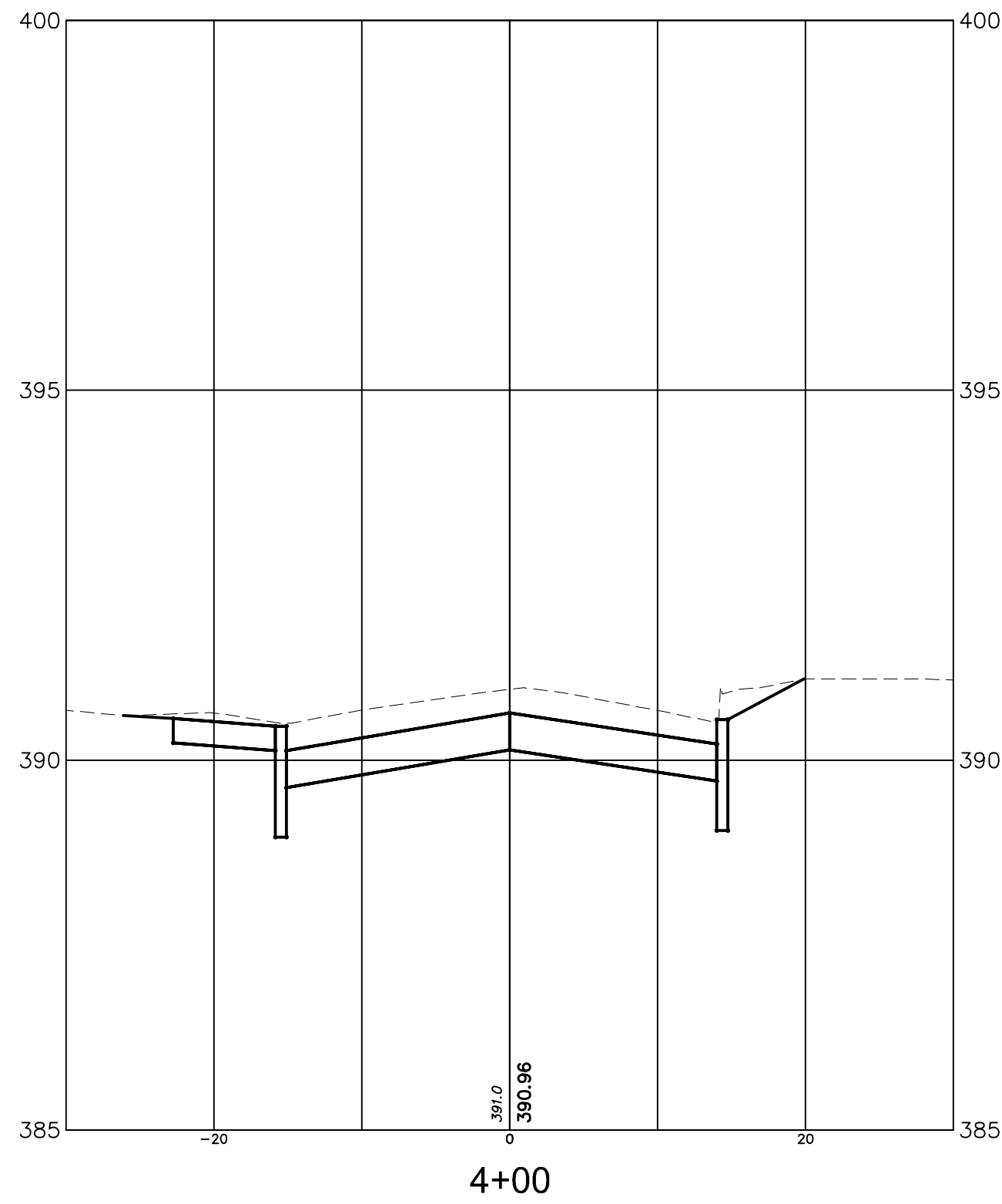
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CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

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35

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			DATE:	JANUARY 2022
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			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



Van Cleaf
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WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 454-3080 FAX: (908) 454-1397

With Offices In:
New Jersey, Pennsylvania & Delaware

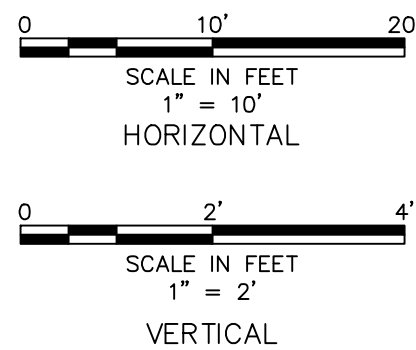
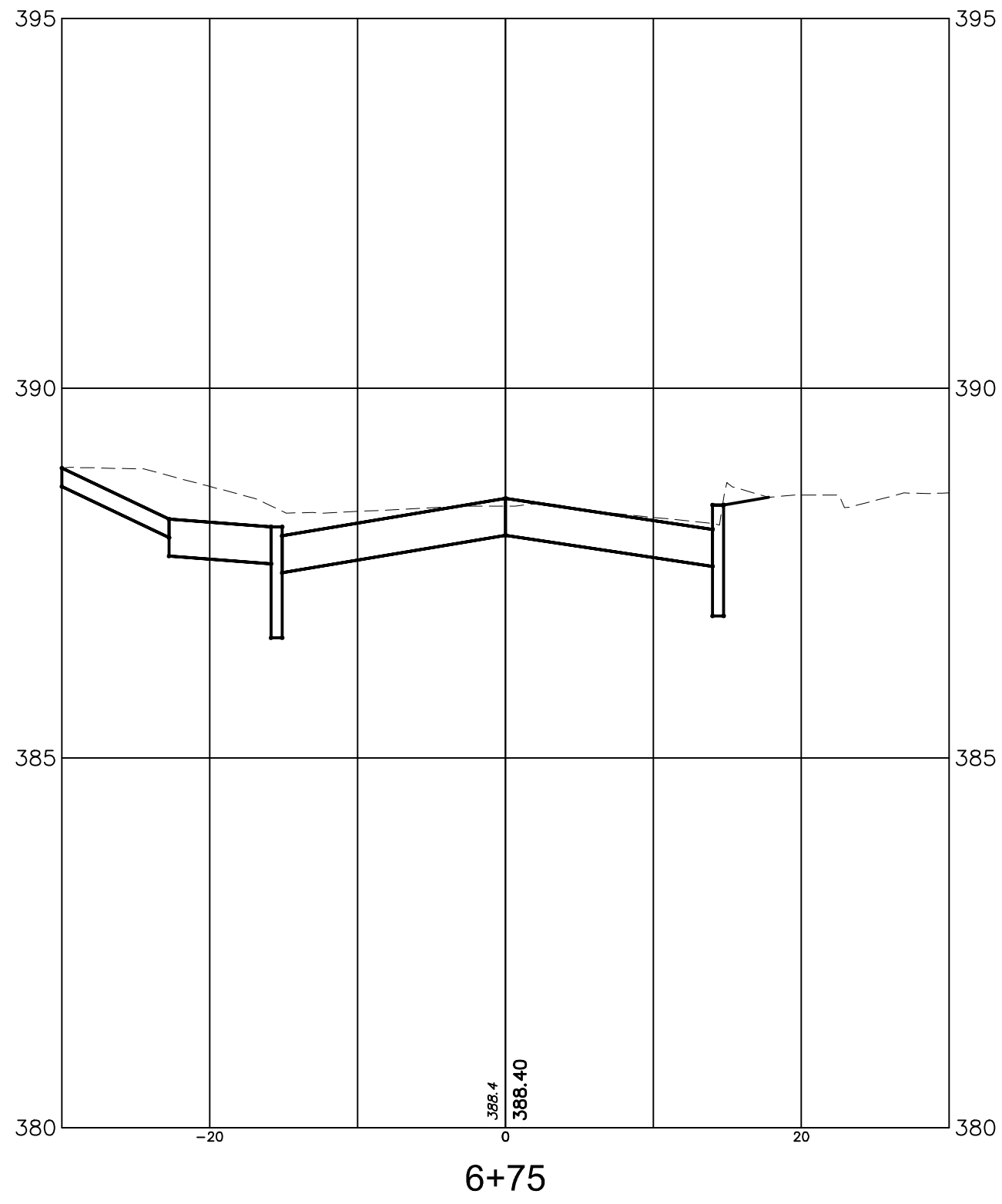
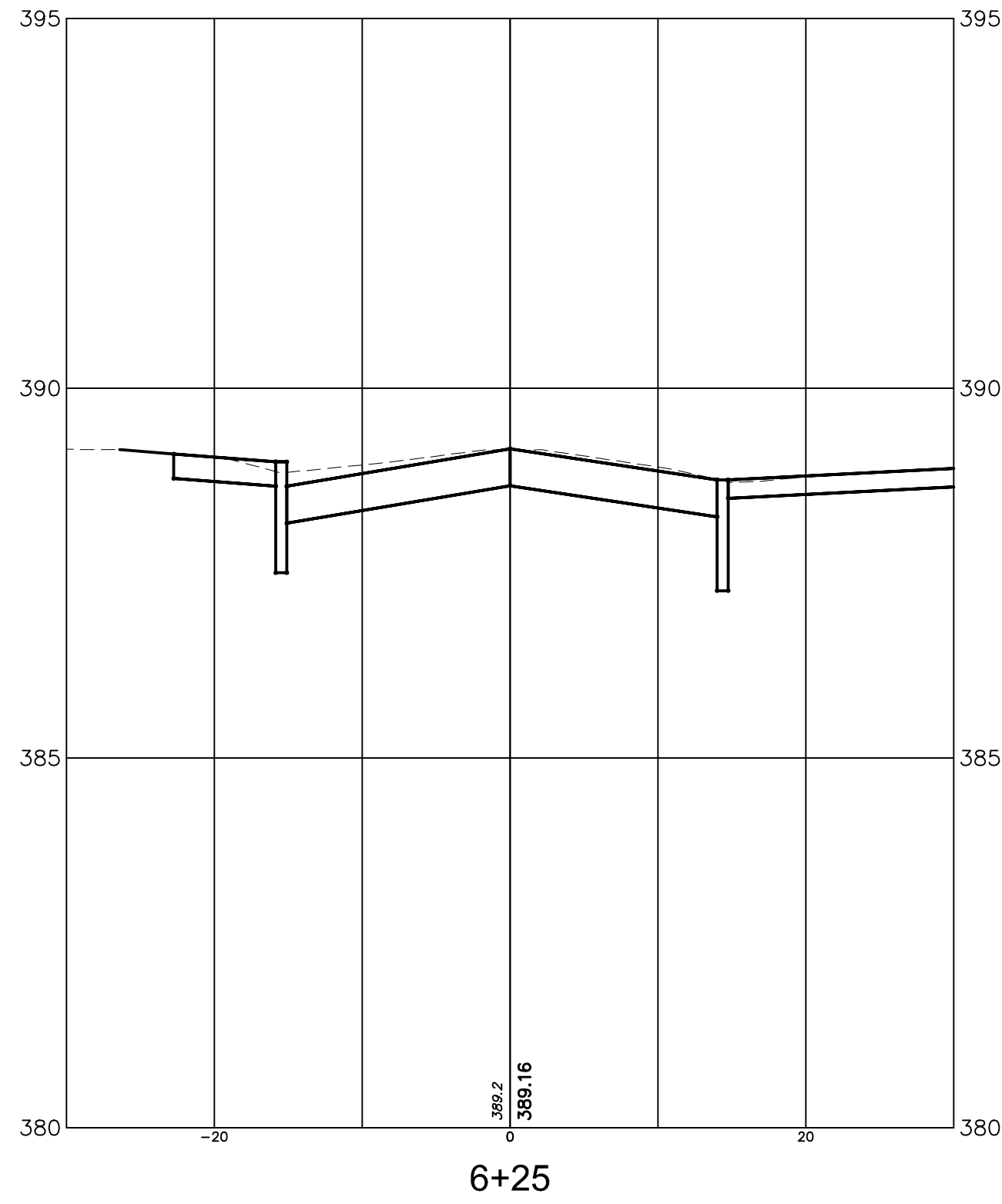
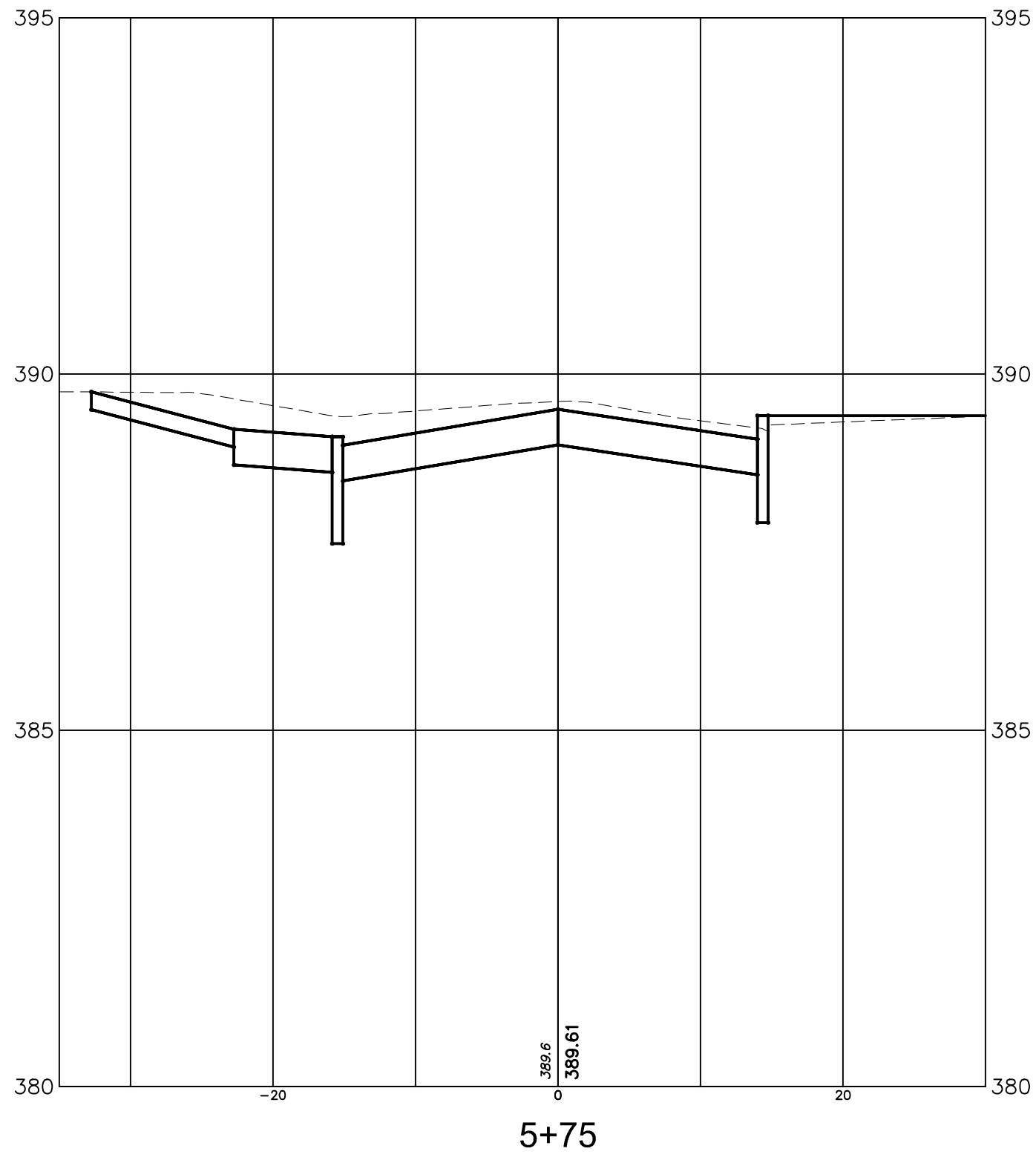
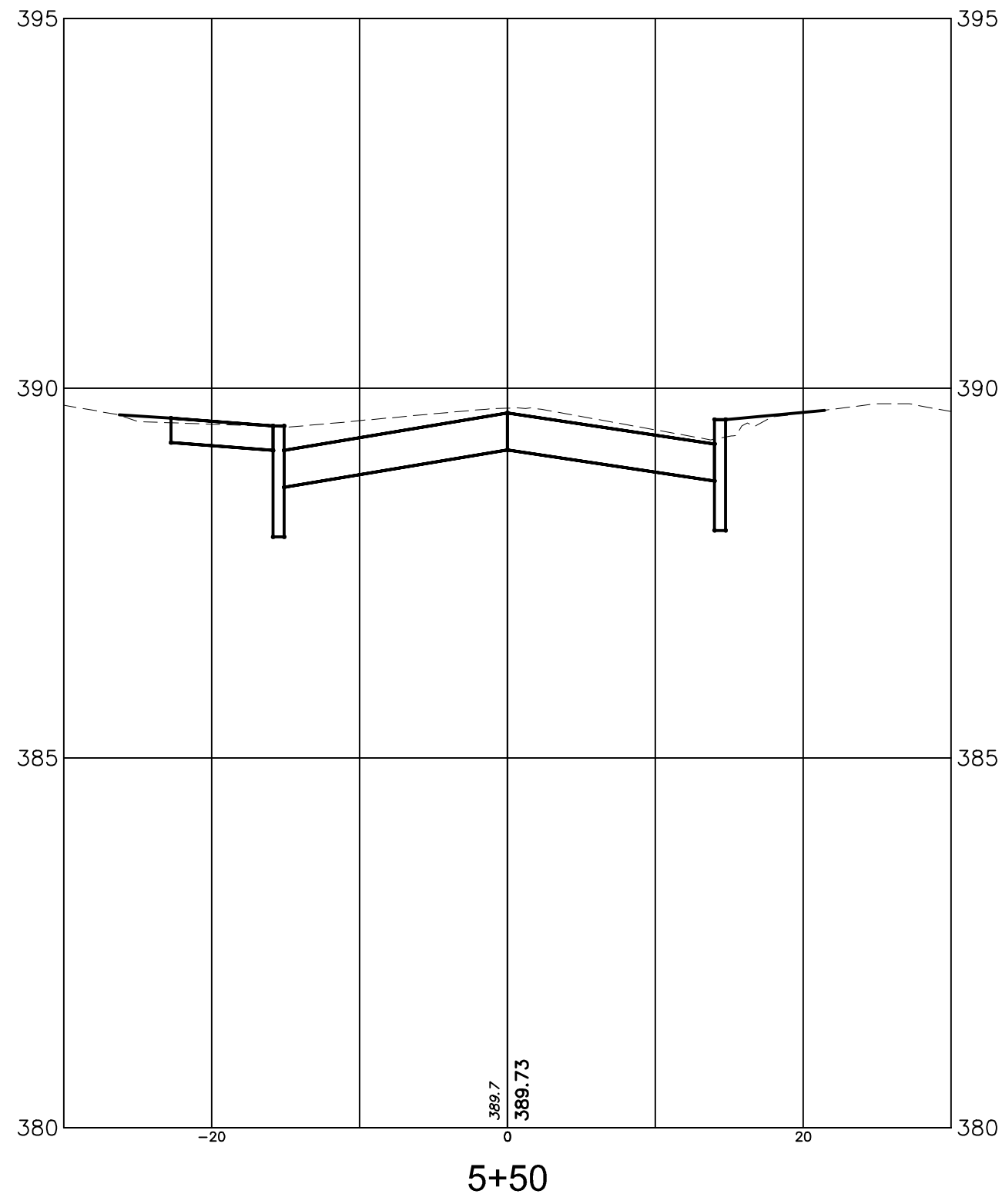
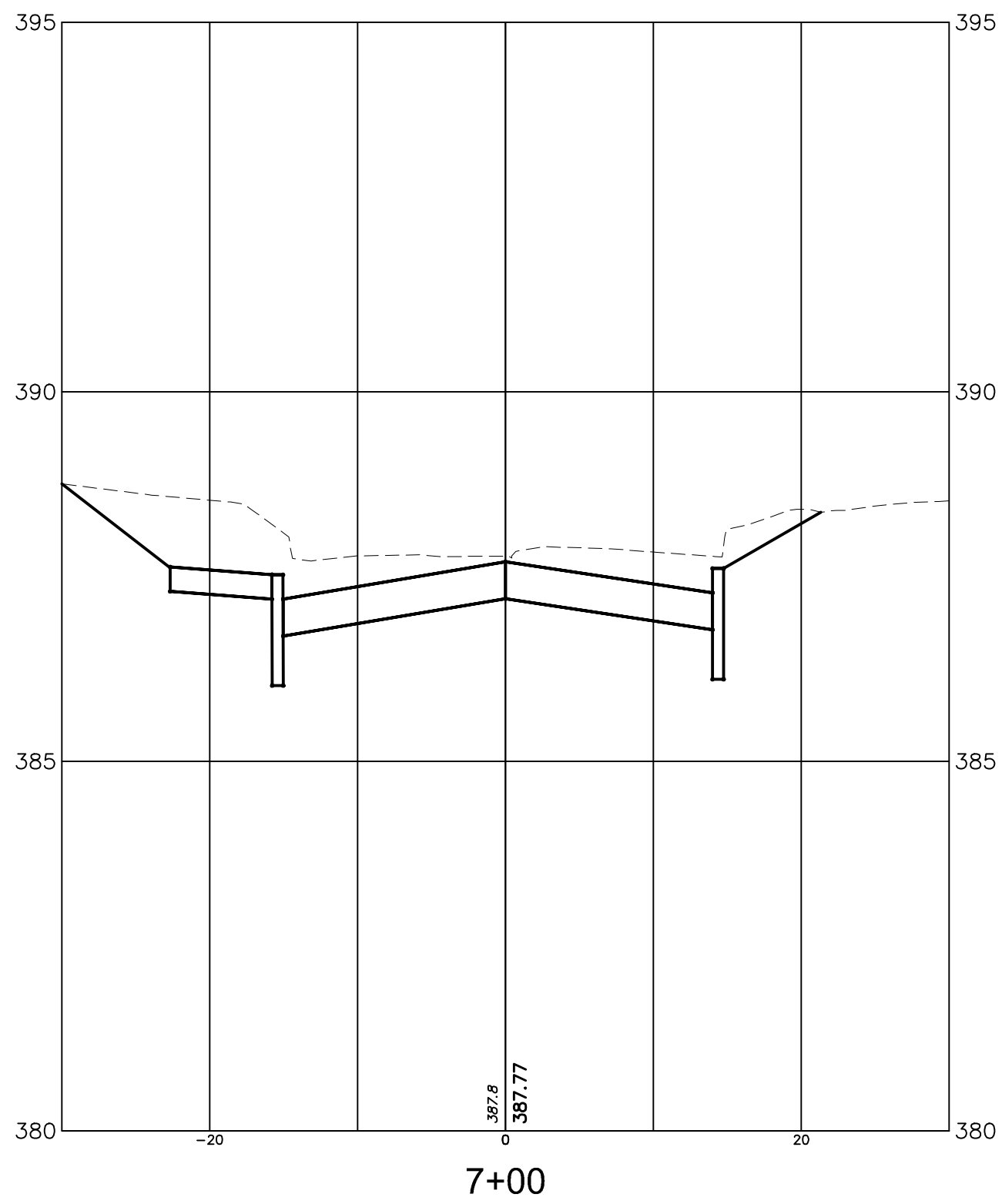
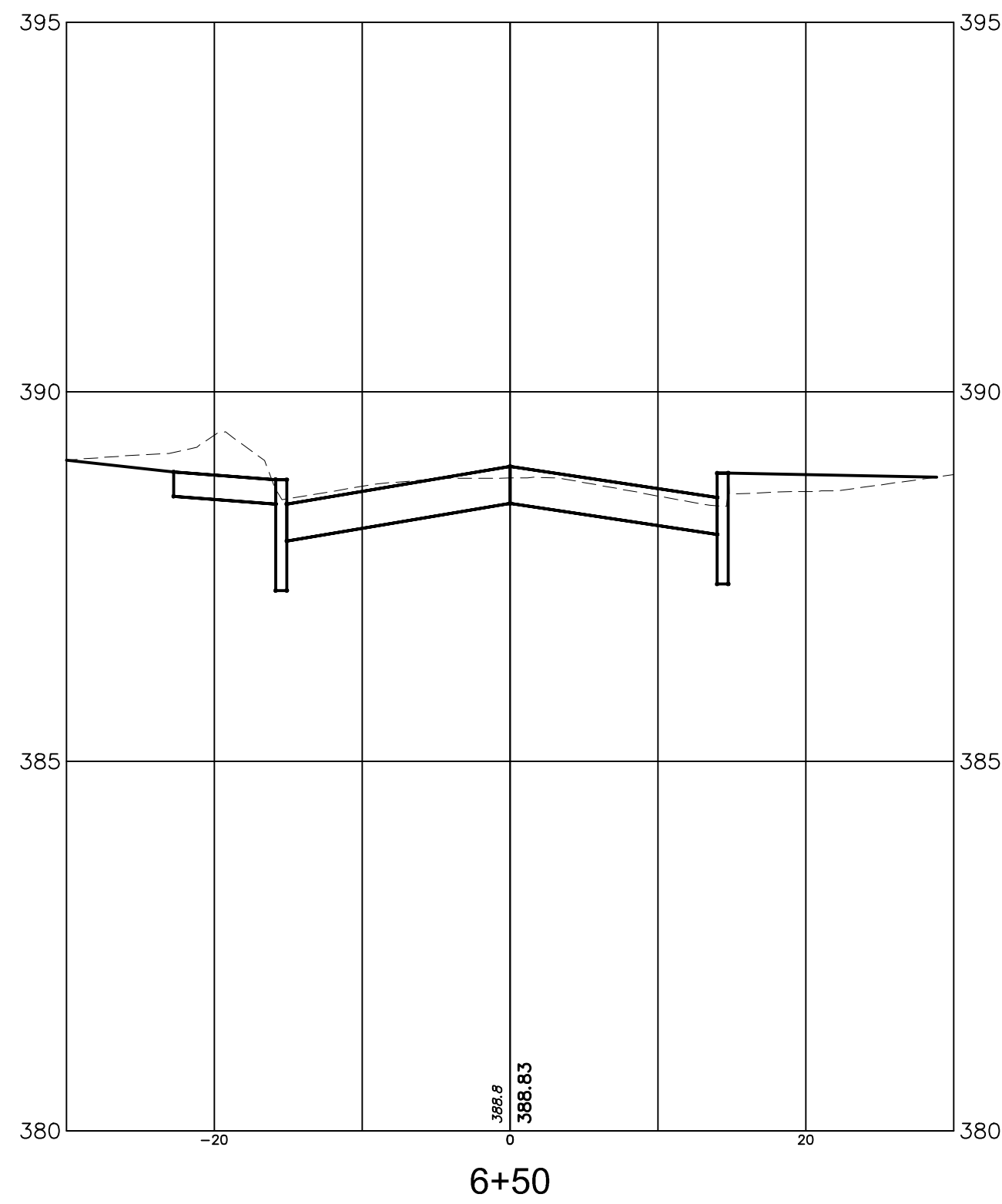
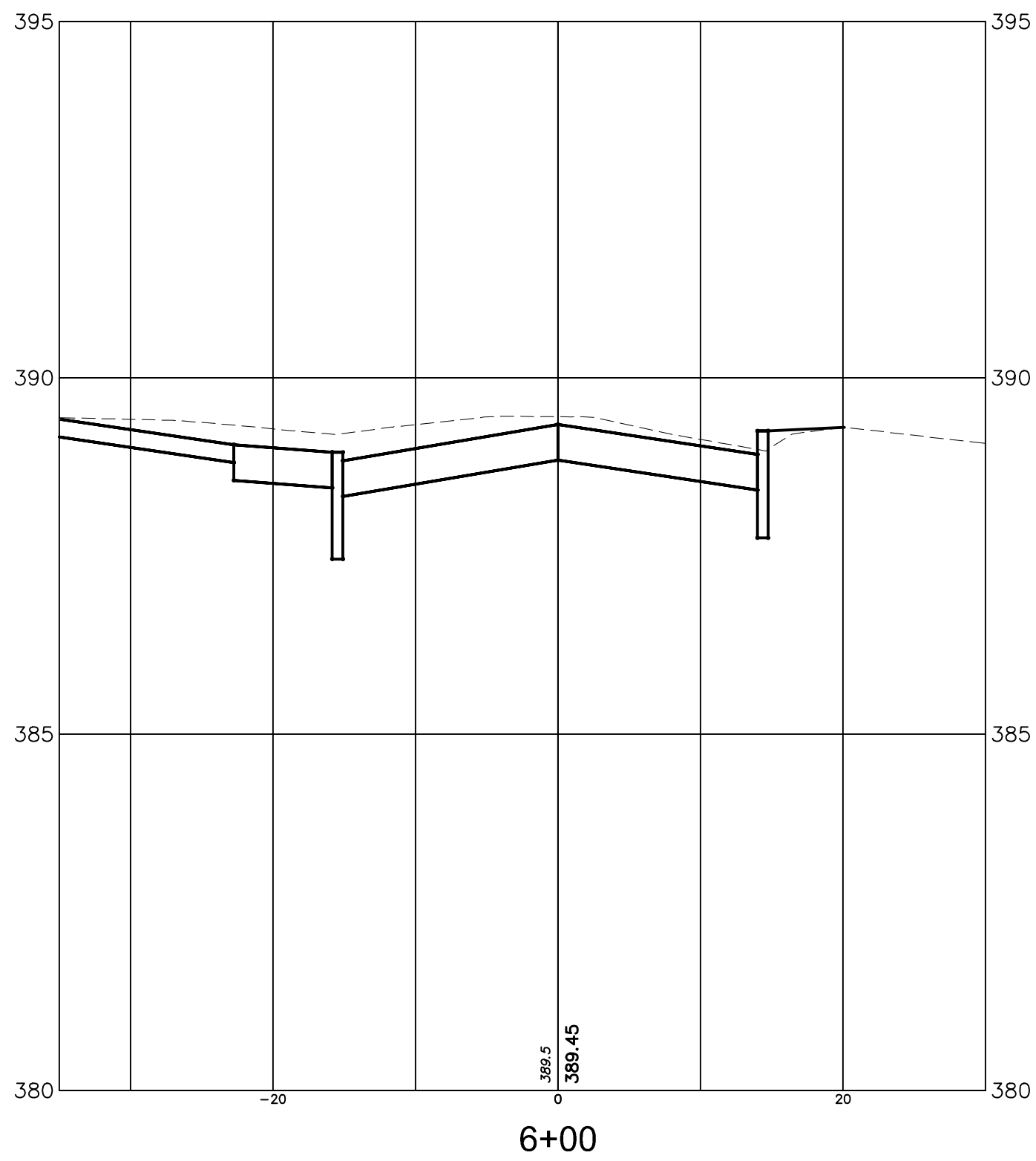
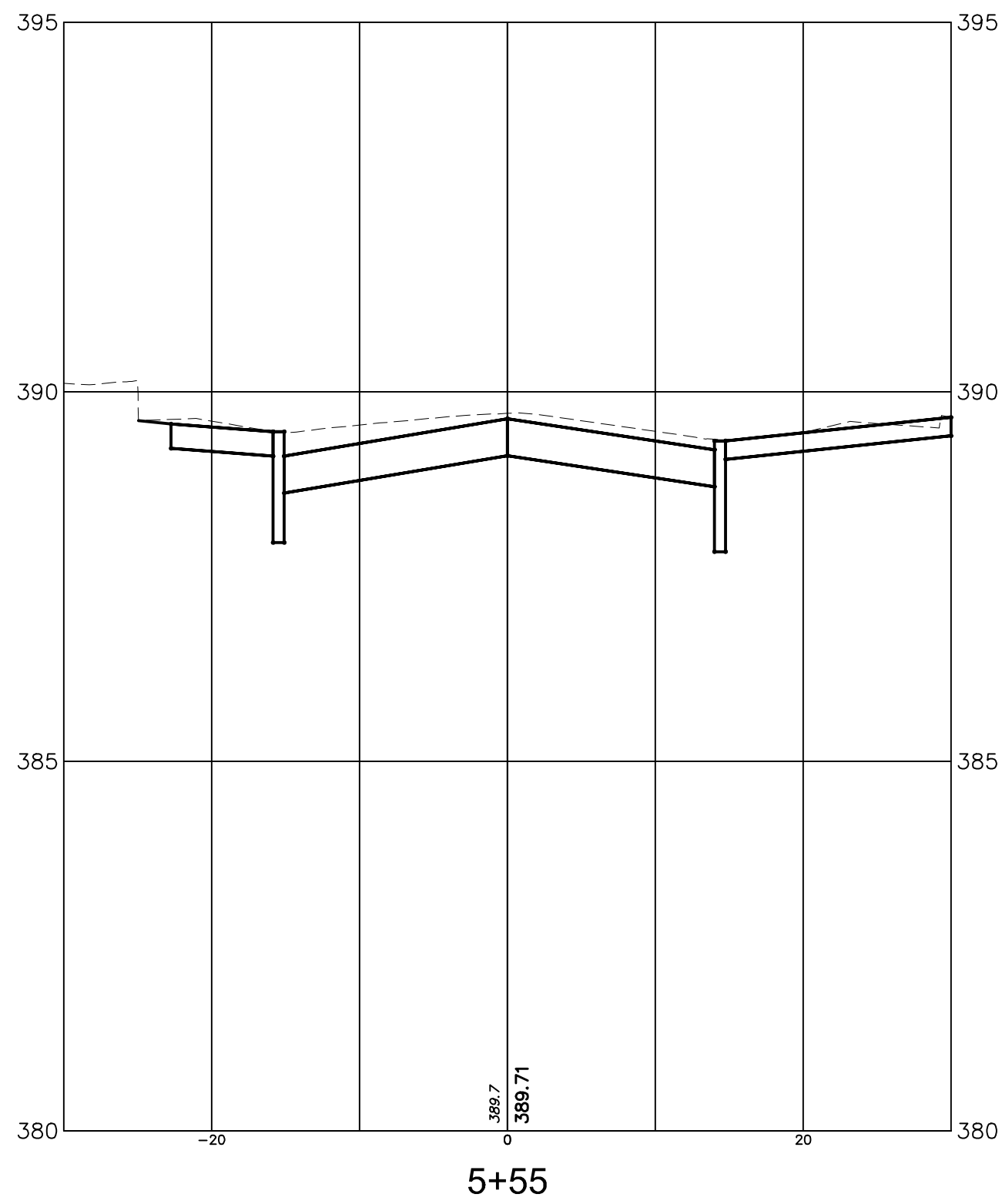
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

16
35

F:\Projects\VCEA - Phillipsburg Office\2004-MRR - Morris Township Roads\DMC 2019\Gregory\2004MRR-construction - SECTIONS.dwg - 017 - XSEC 4



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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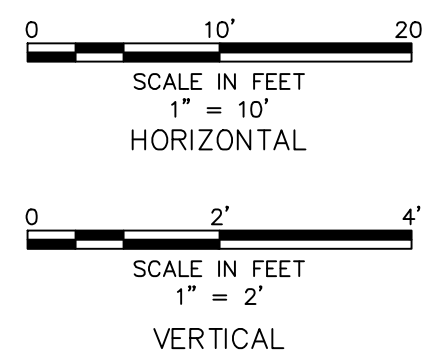
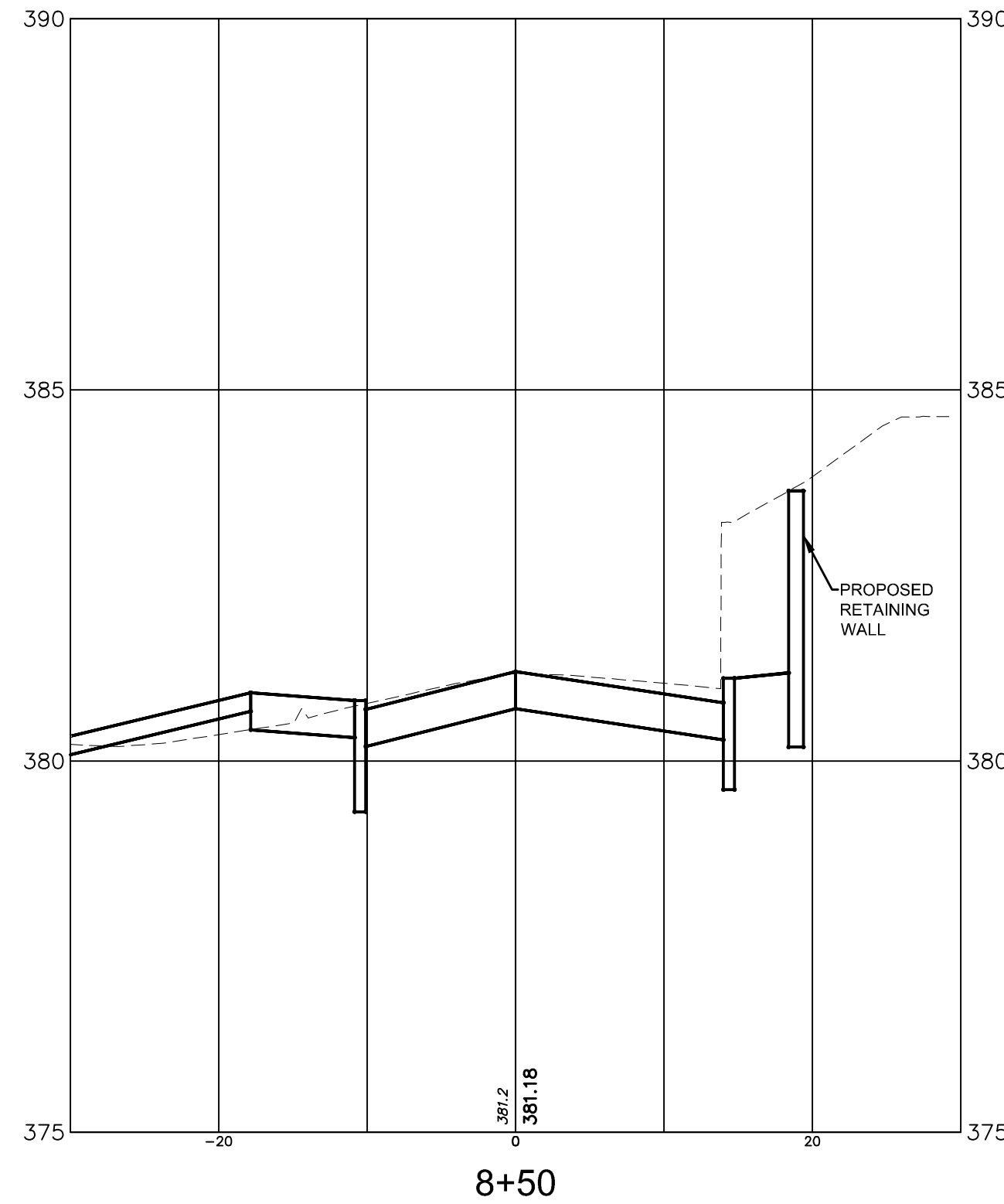
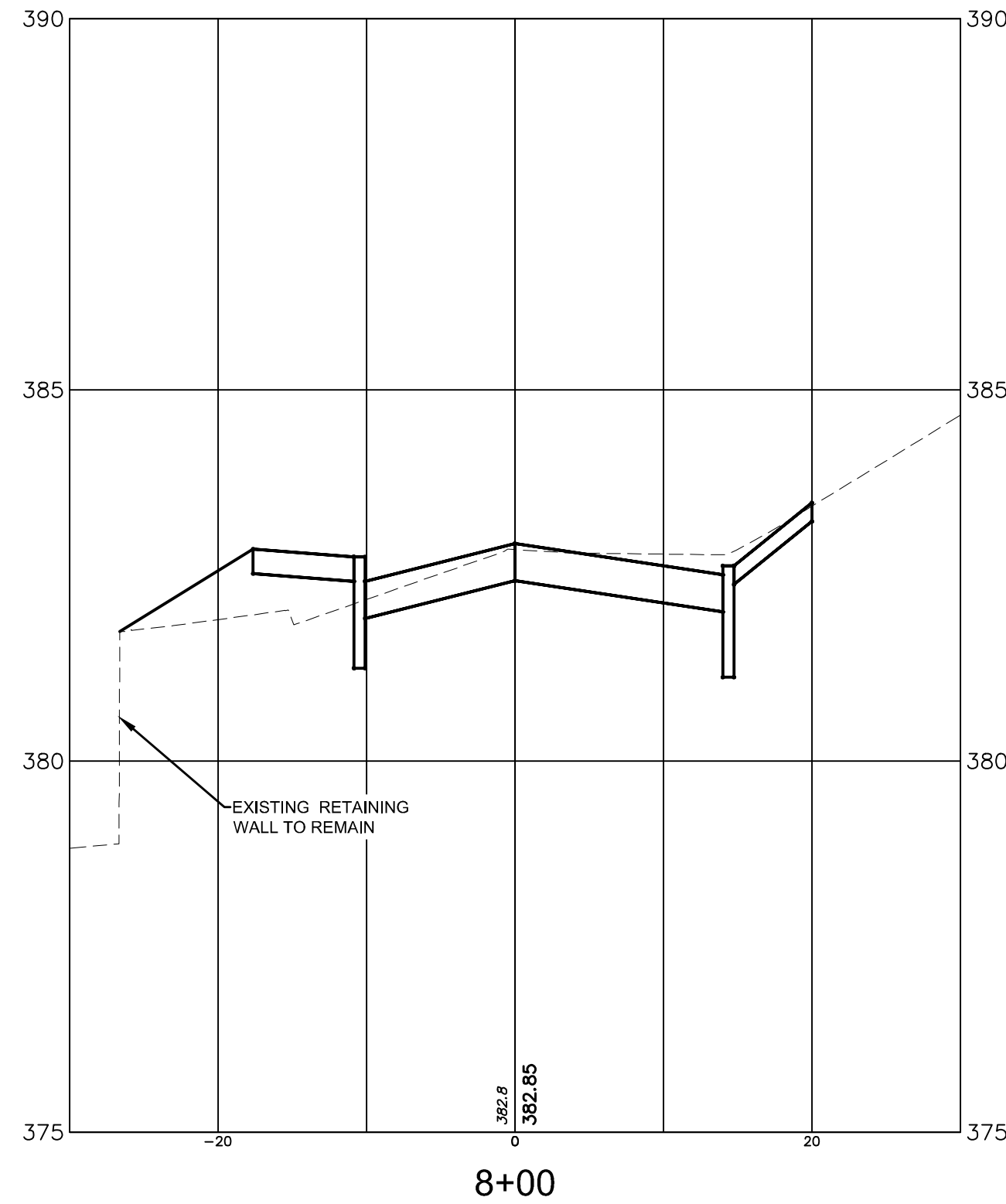
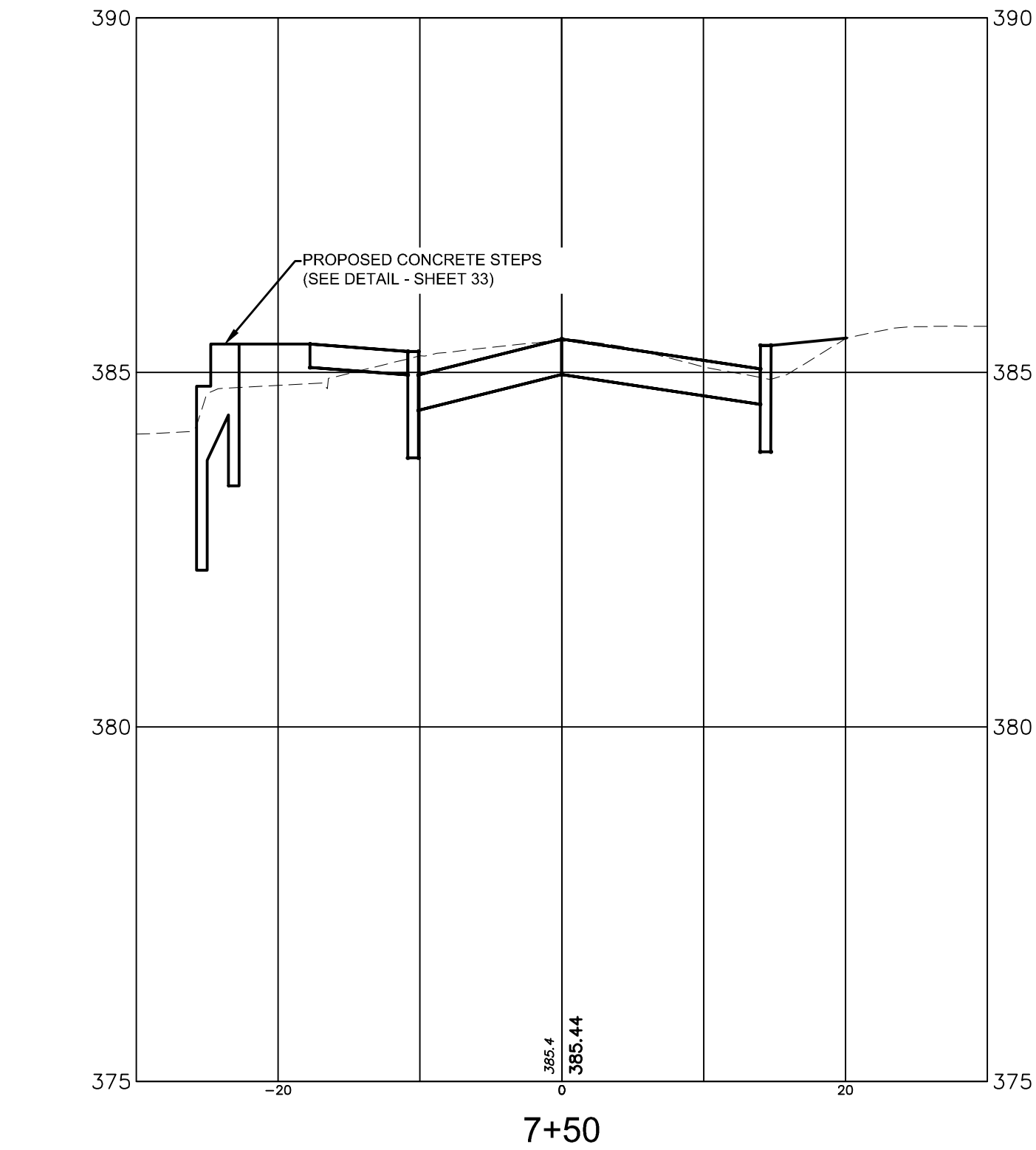
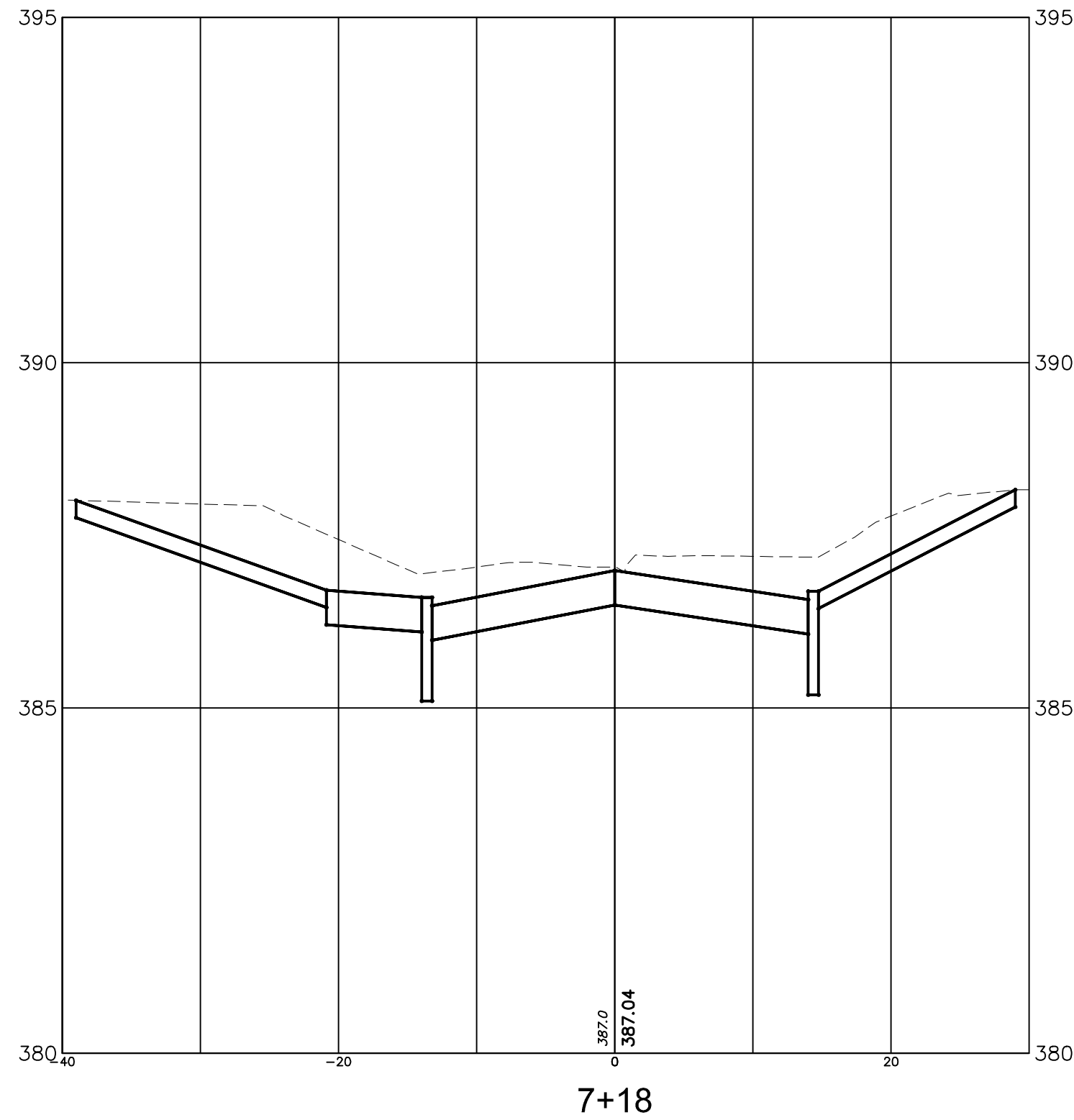
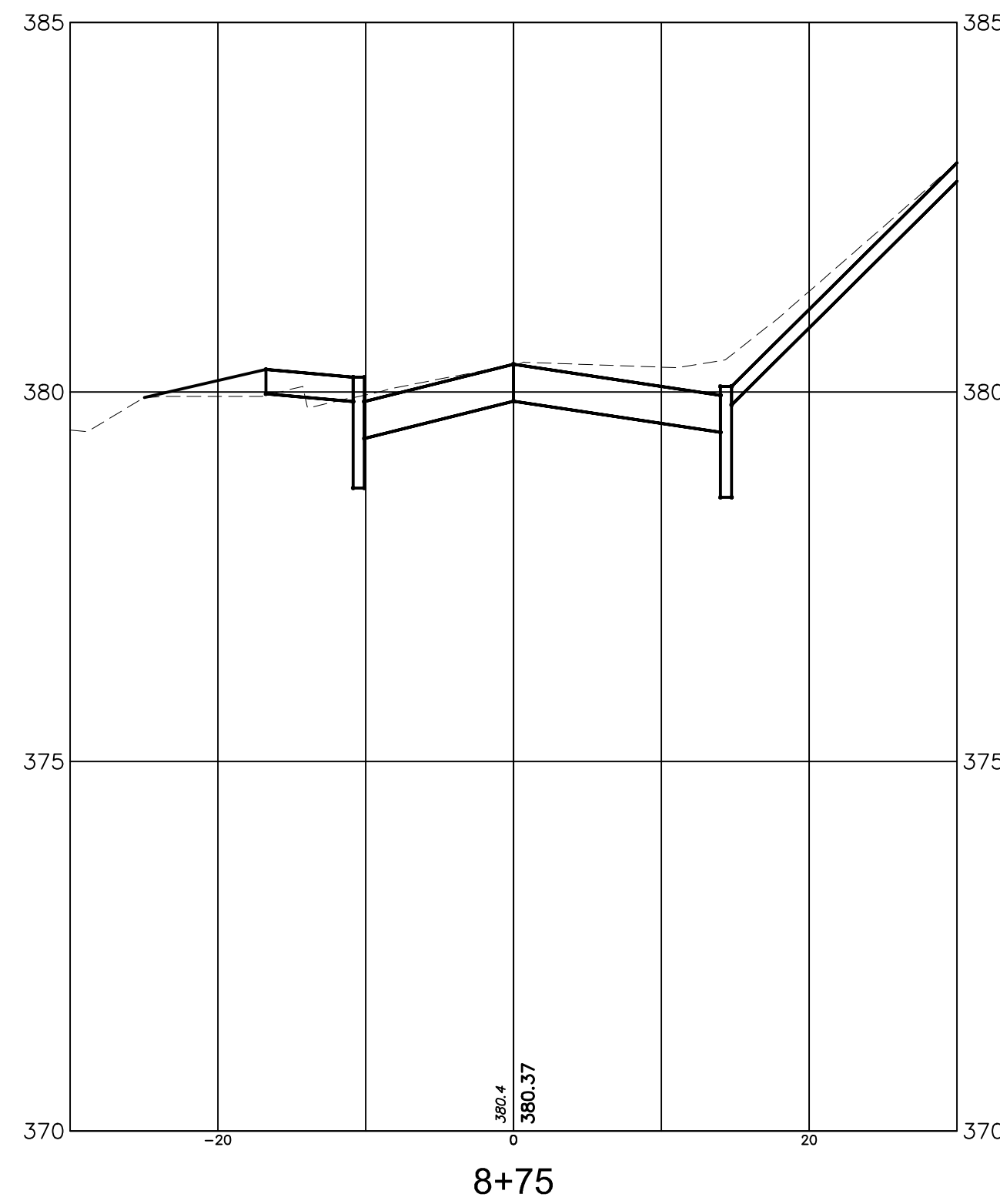
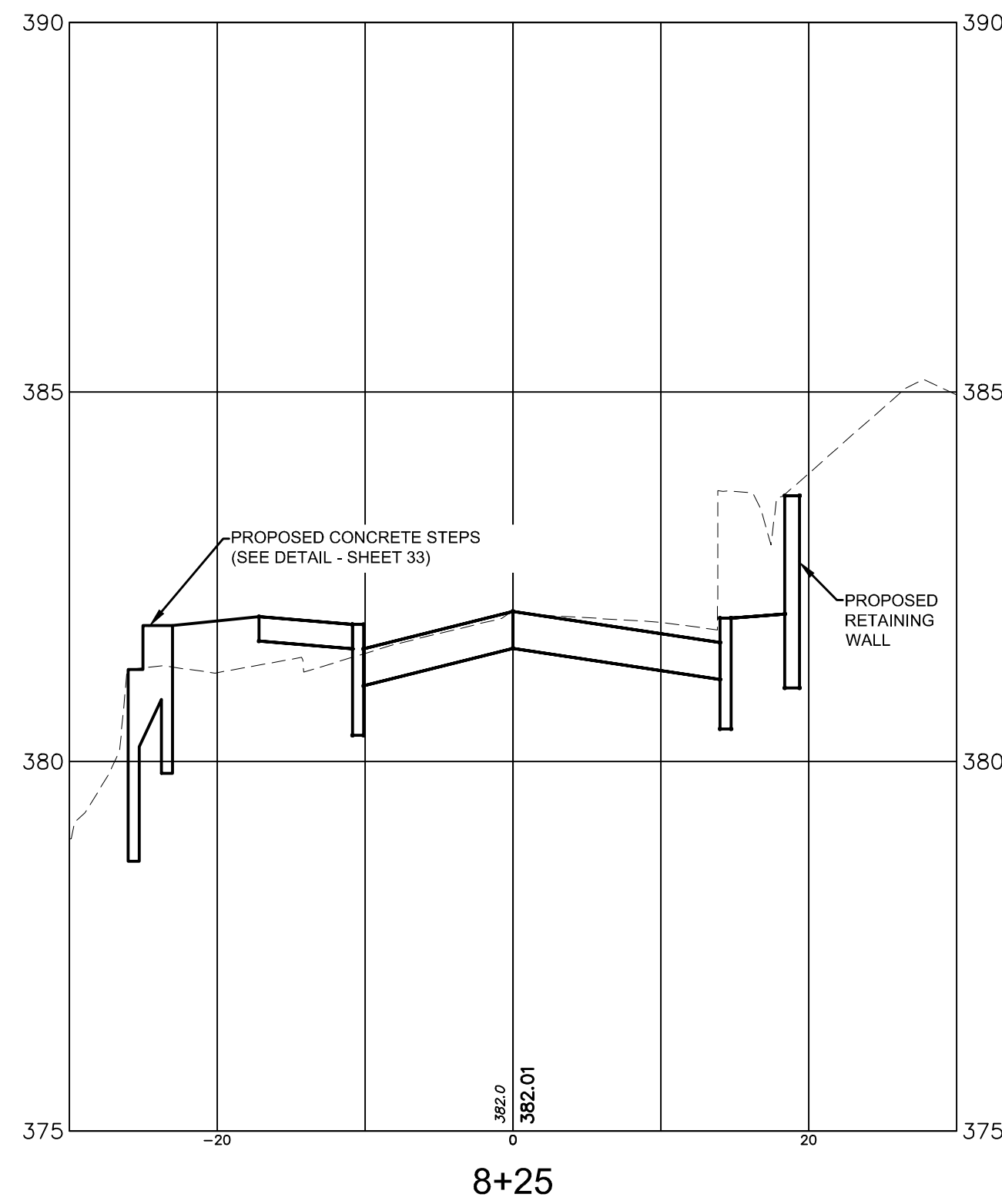
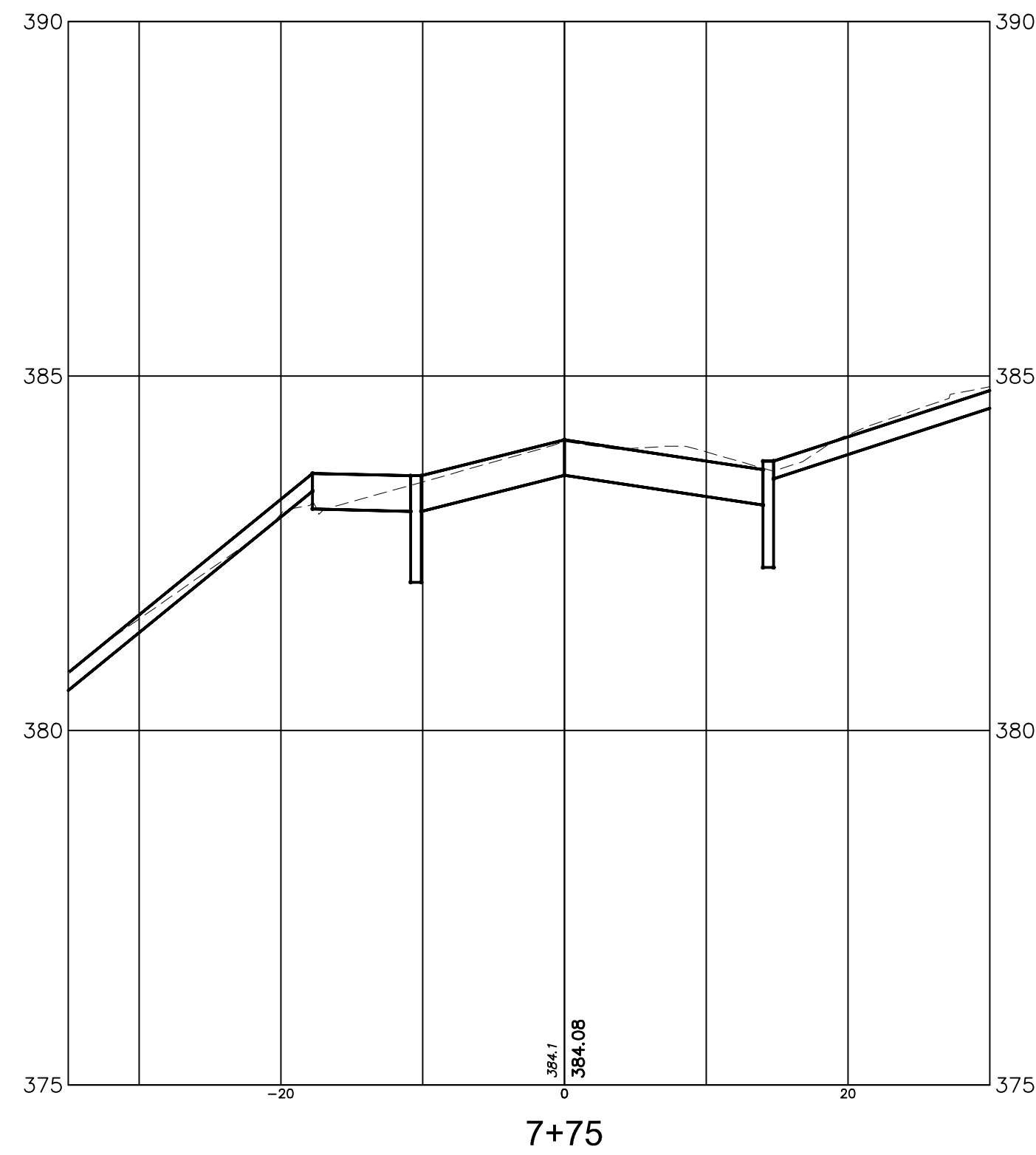
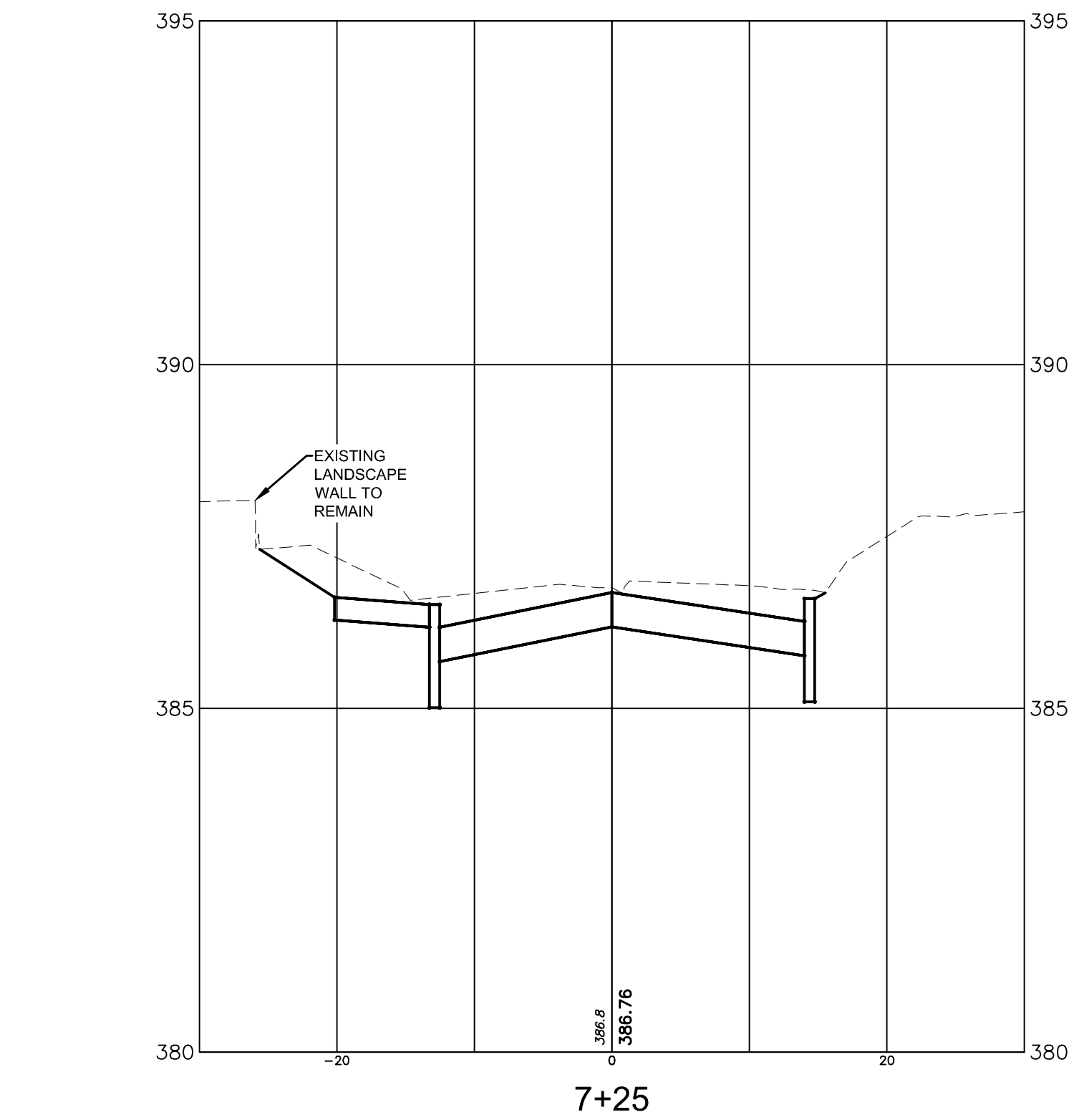
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

17
35

F:\Projects\VCEA - Phillipsburg Office\2004-MRR - Morris Township Roads\DMC 2019\Gregory\2004MRR-construction - SECTIONS.dwg - 018 - XSEC 5



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				

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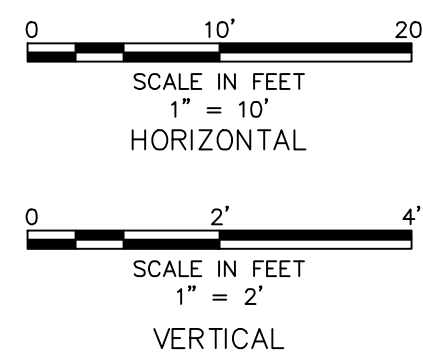
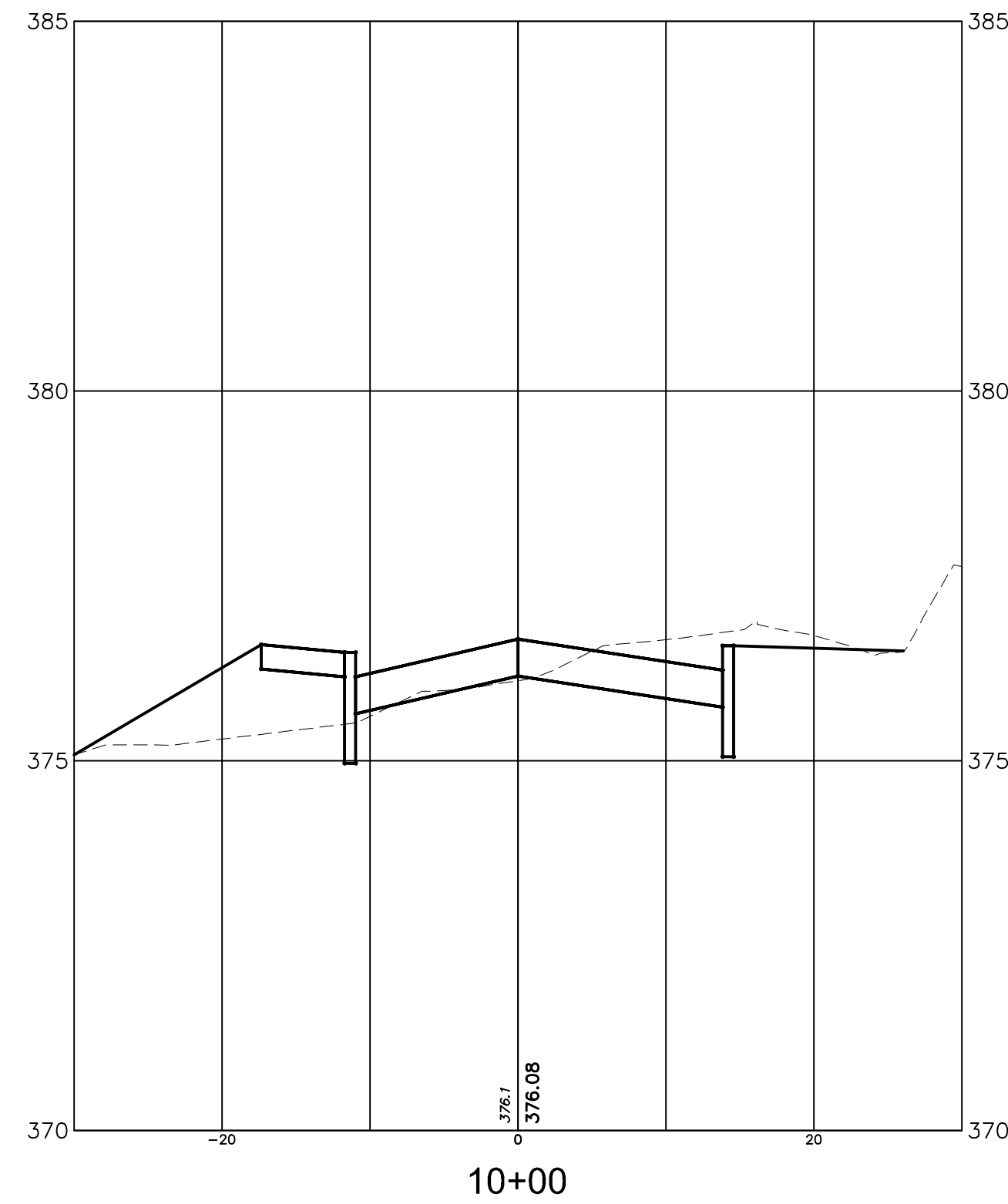
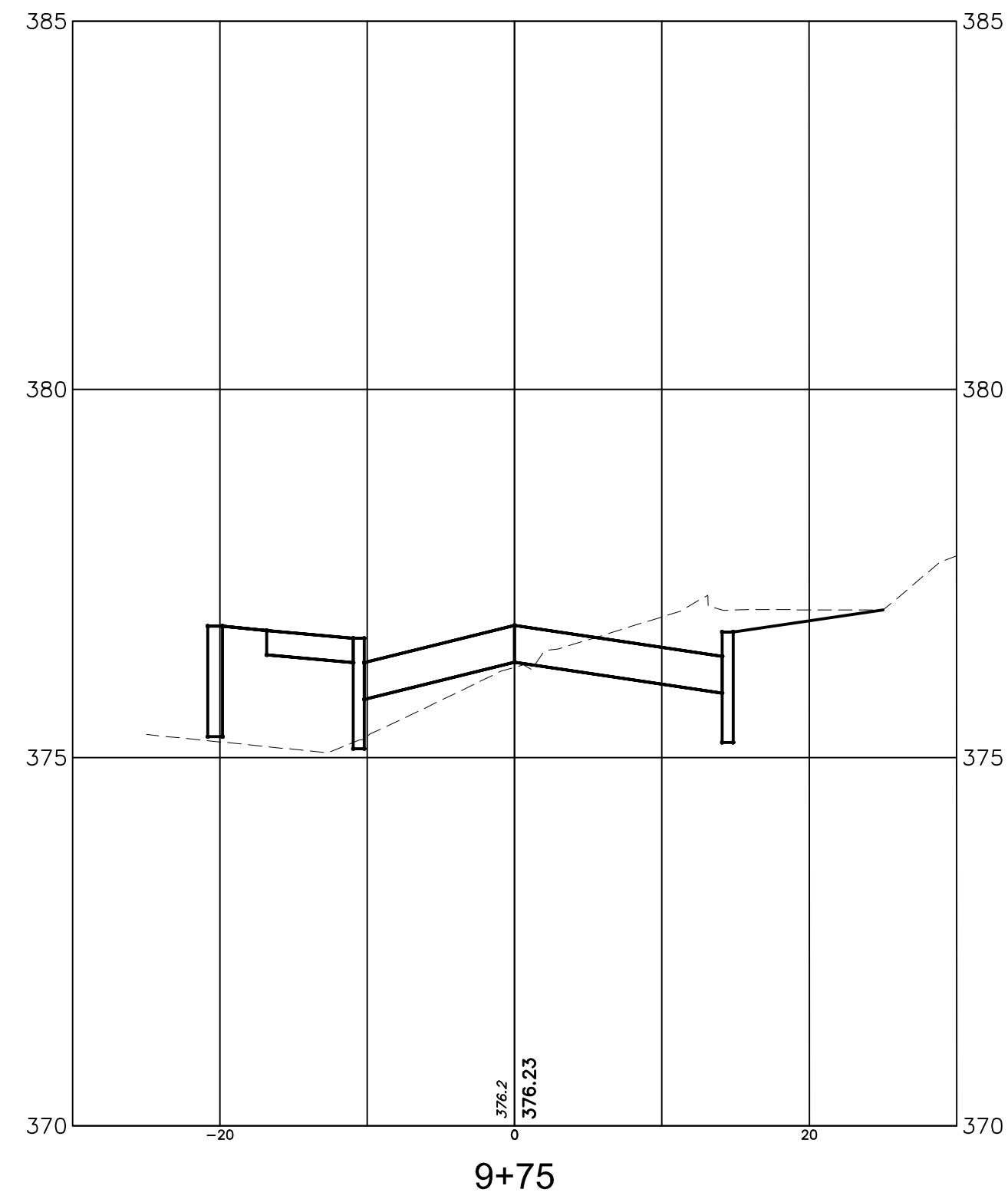
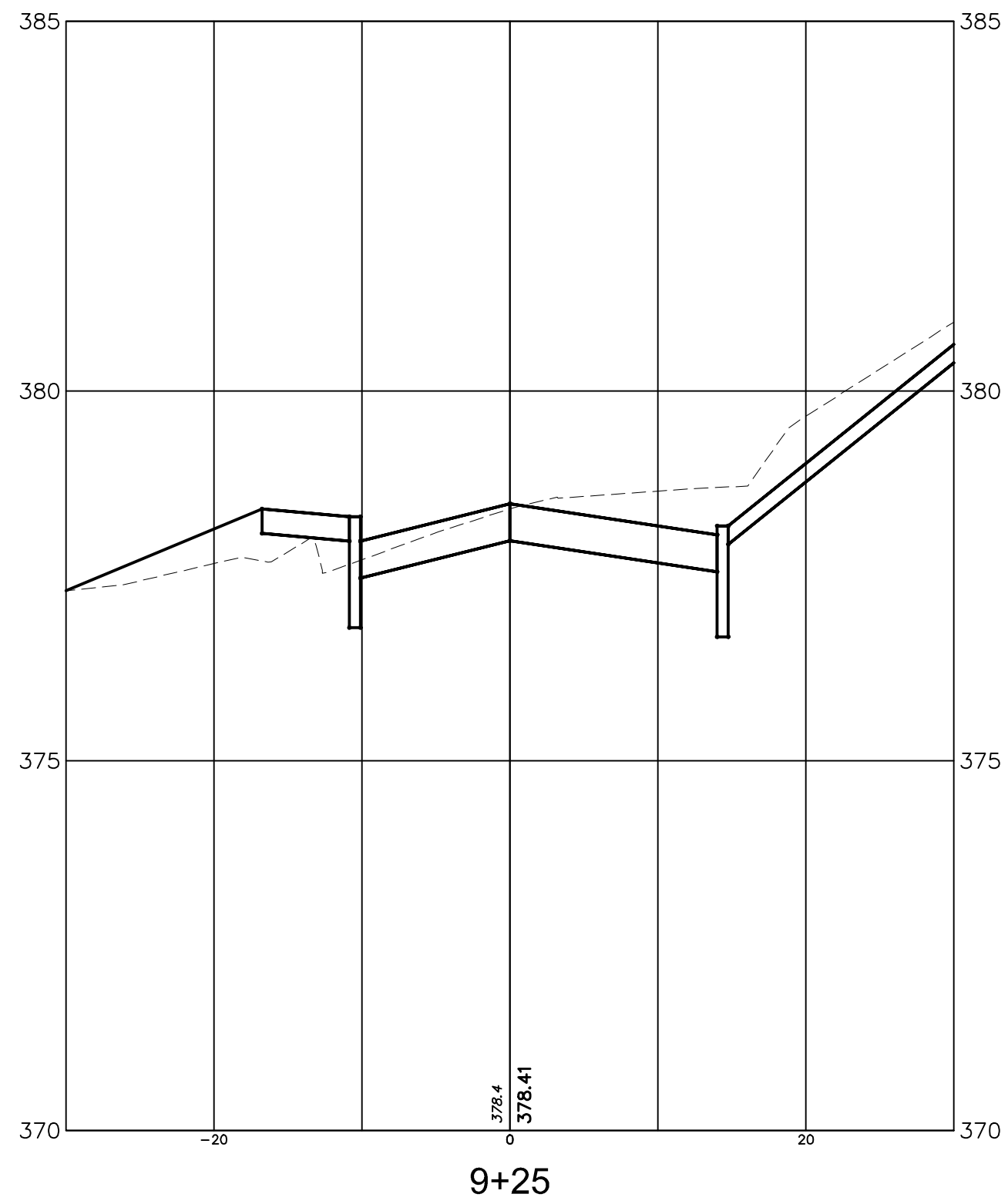
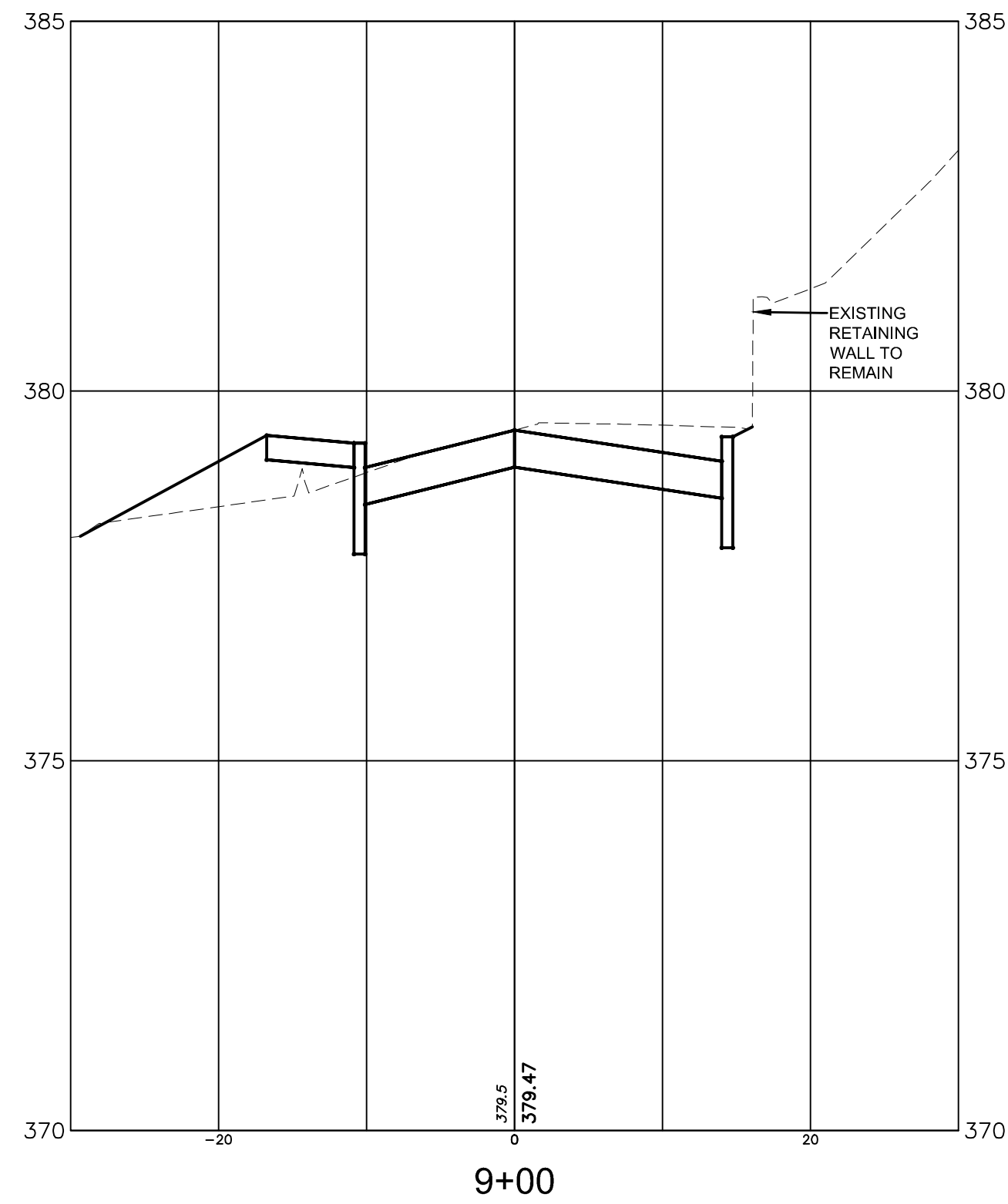
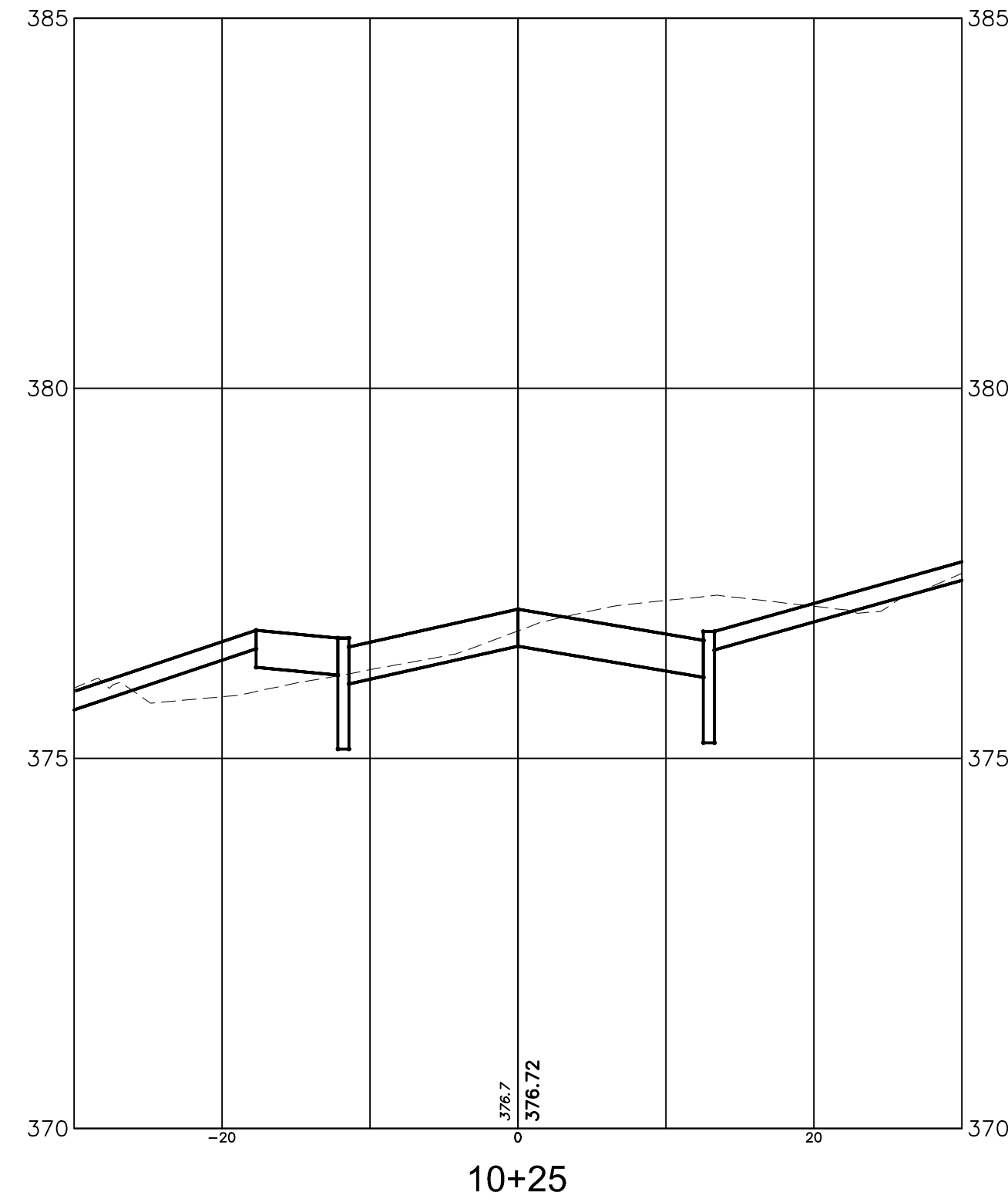
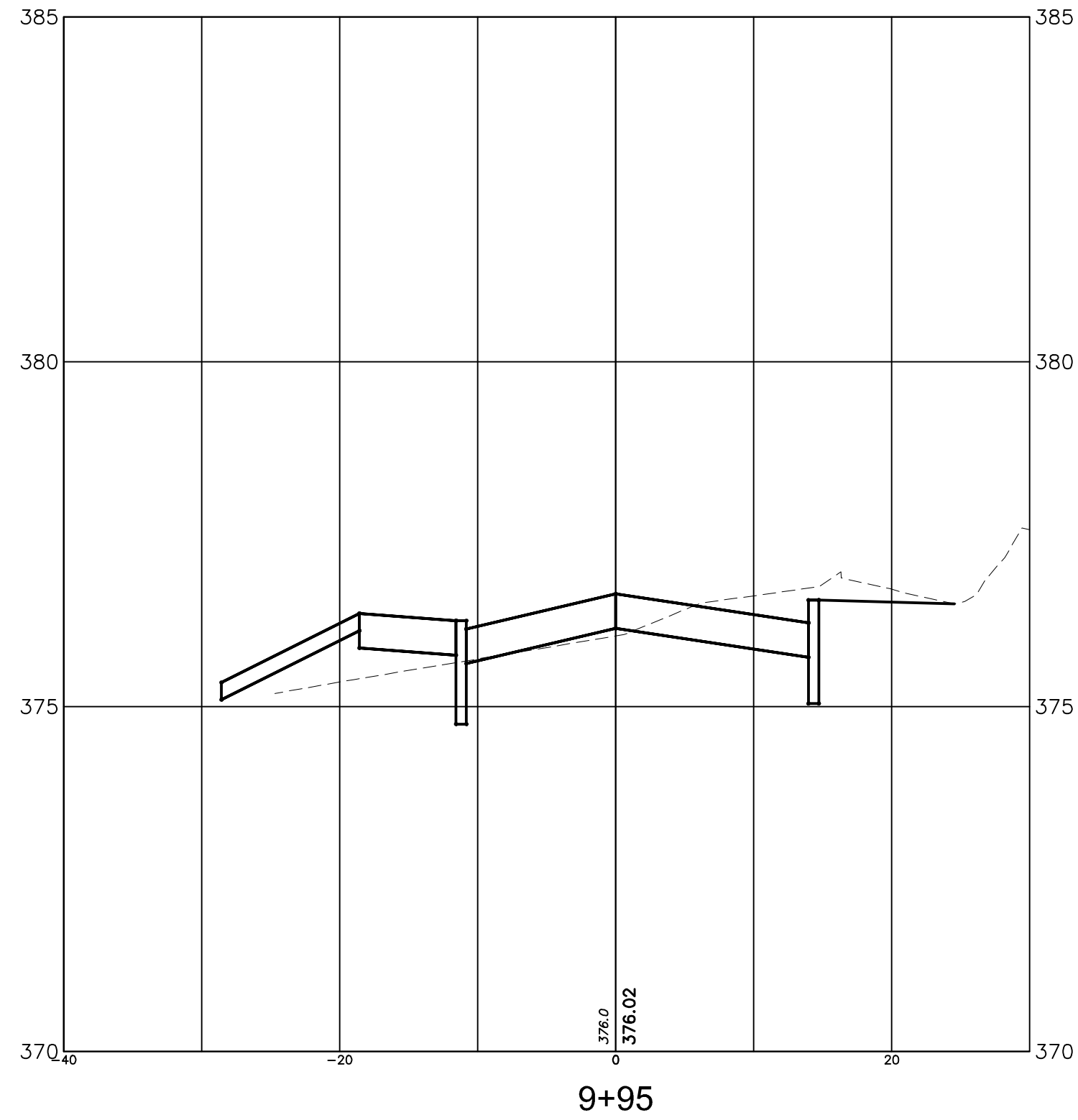
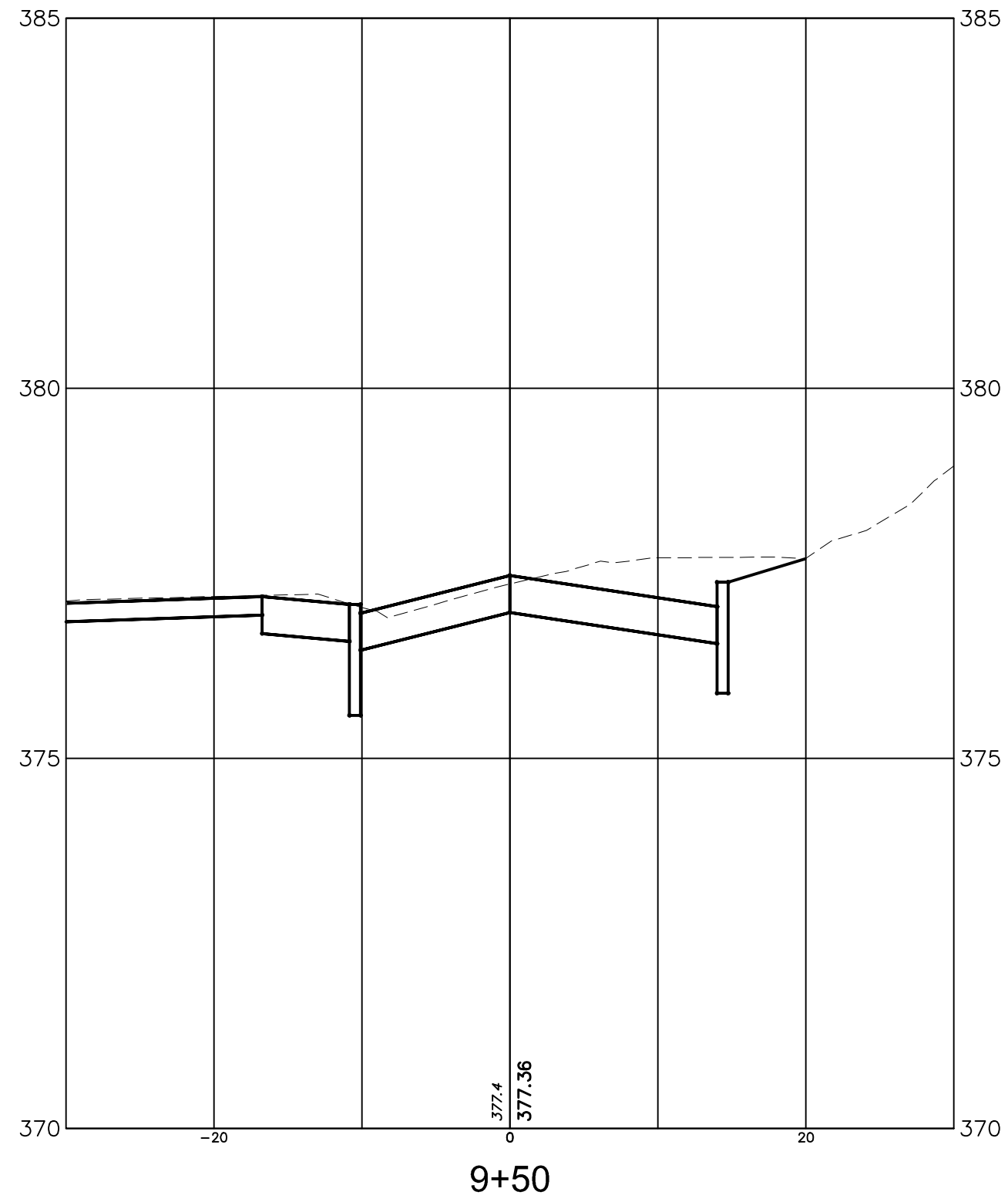
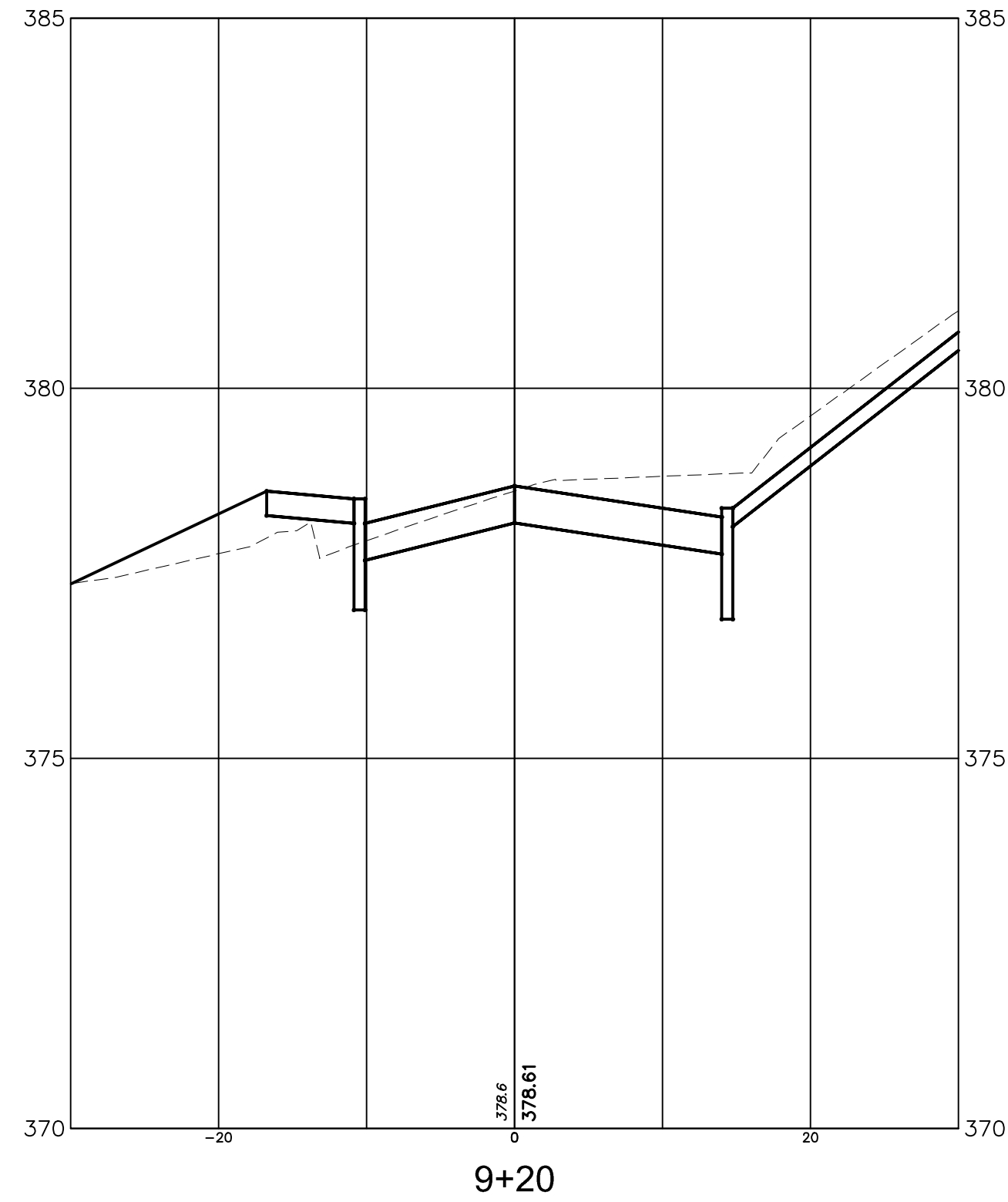
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

18
35

F:\Projects\VCEA - Philipsburg Office\2004-MRR - Morris Township Roads\DMC 2019\Gregory\2004MRR-construction - SECTIONS.dwg - 019 - XSEC 6



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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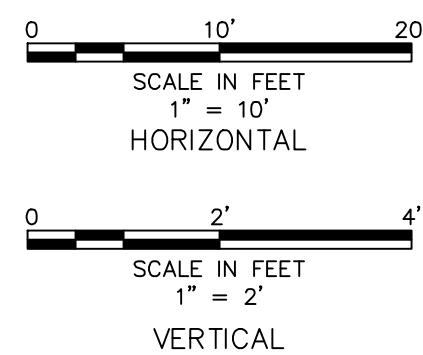
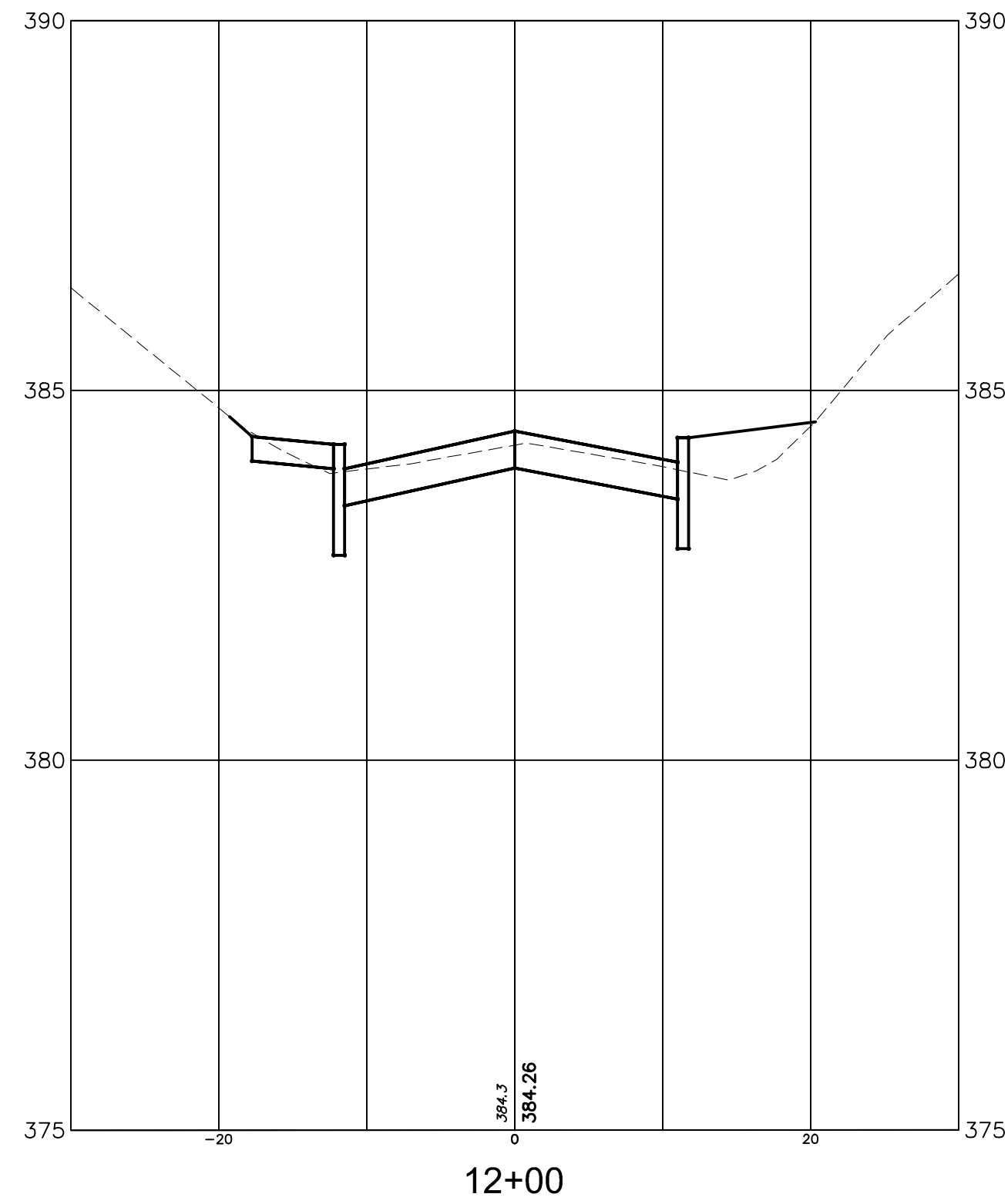
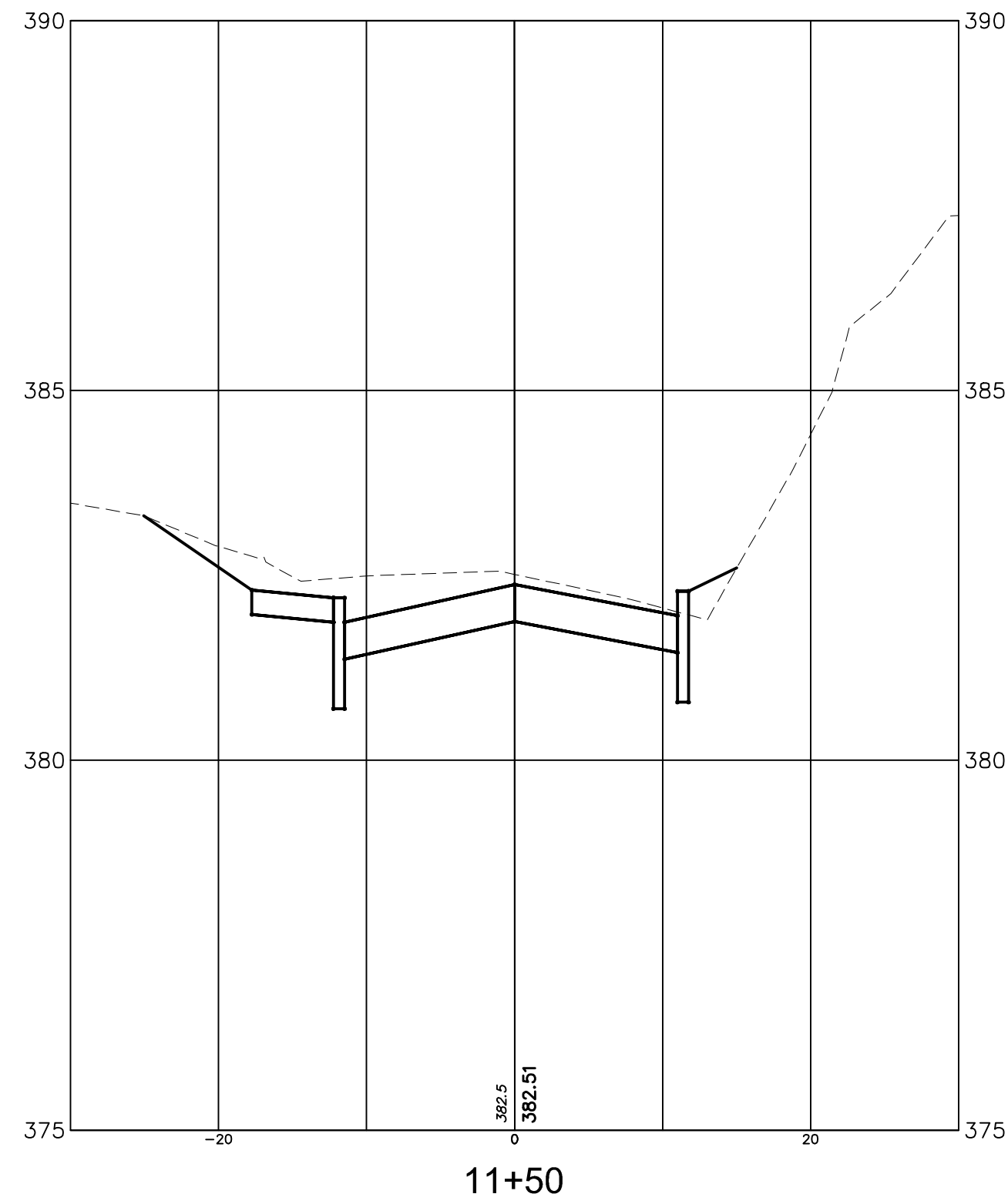
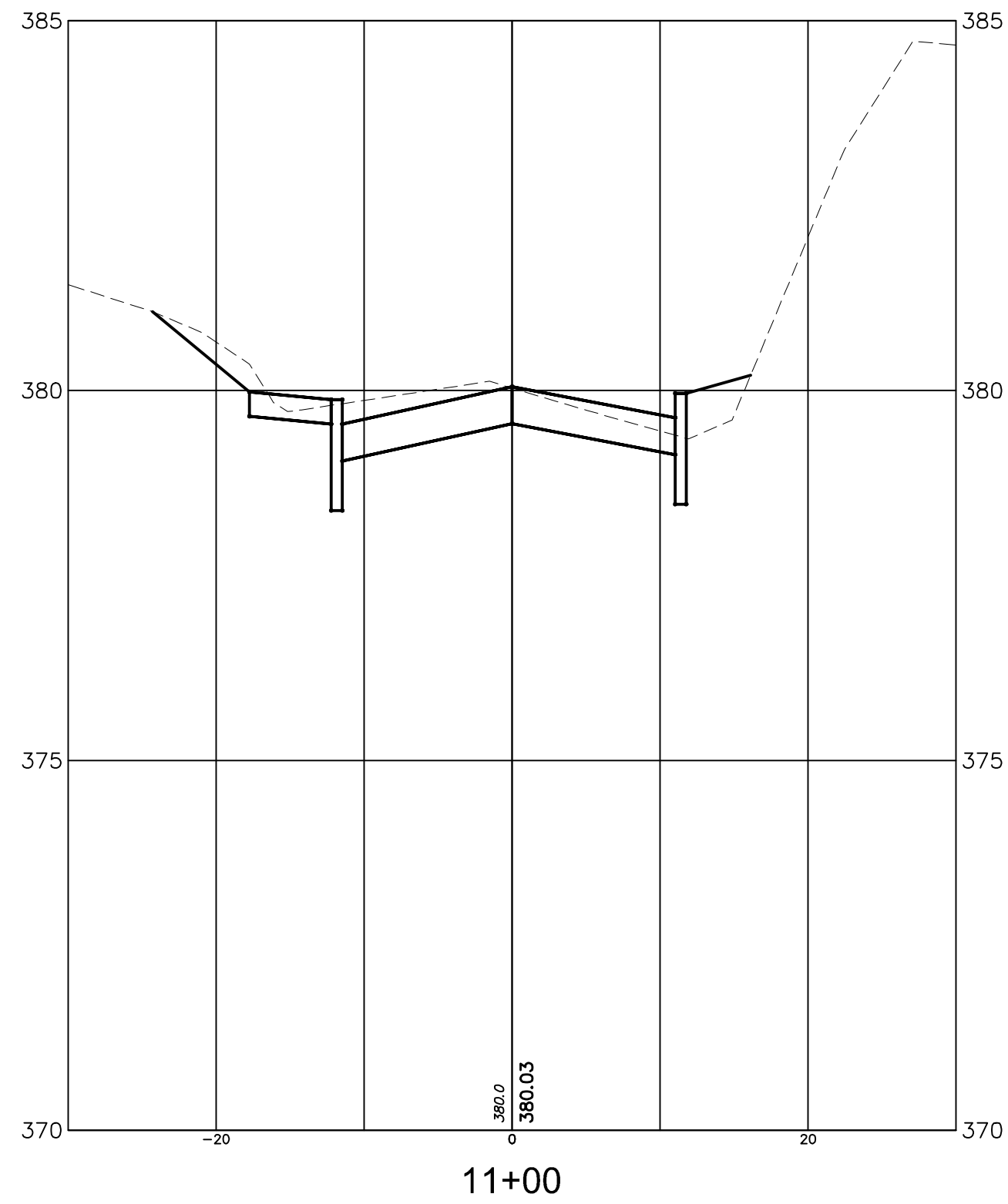
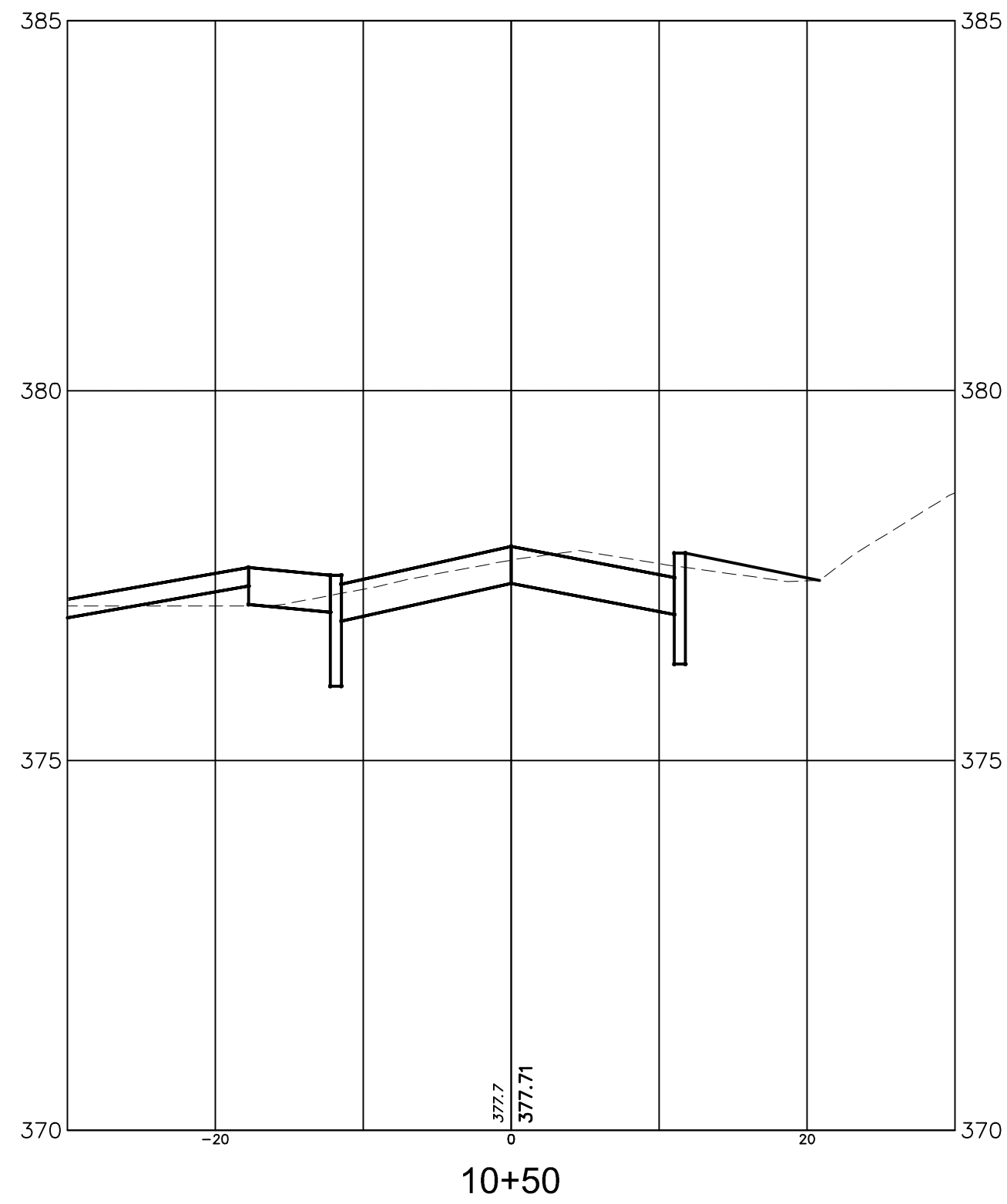
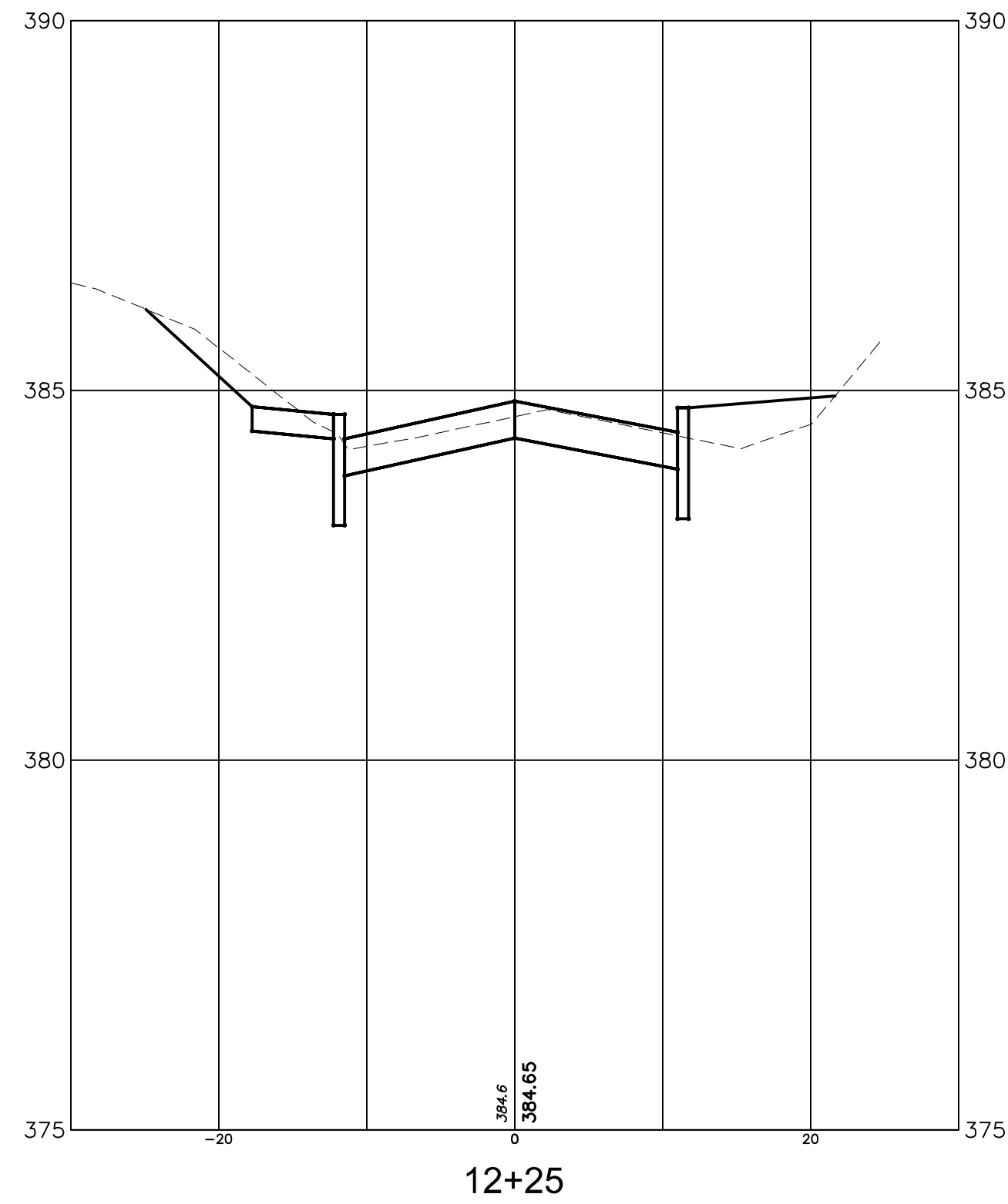
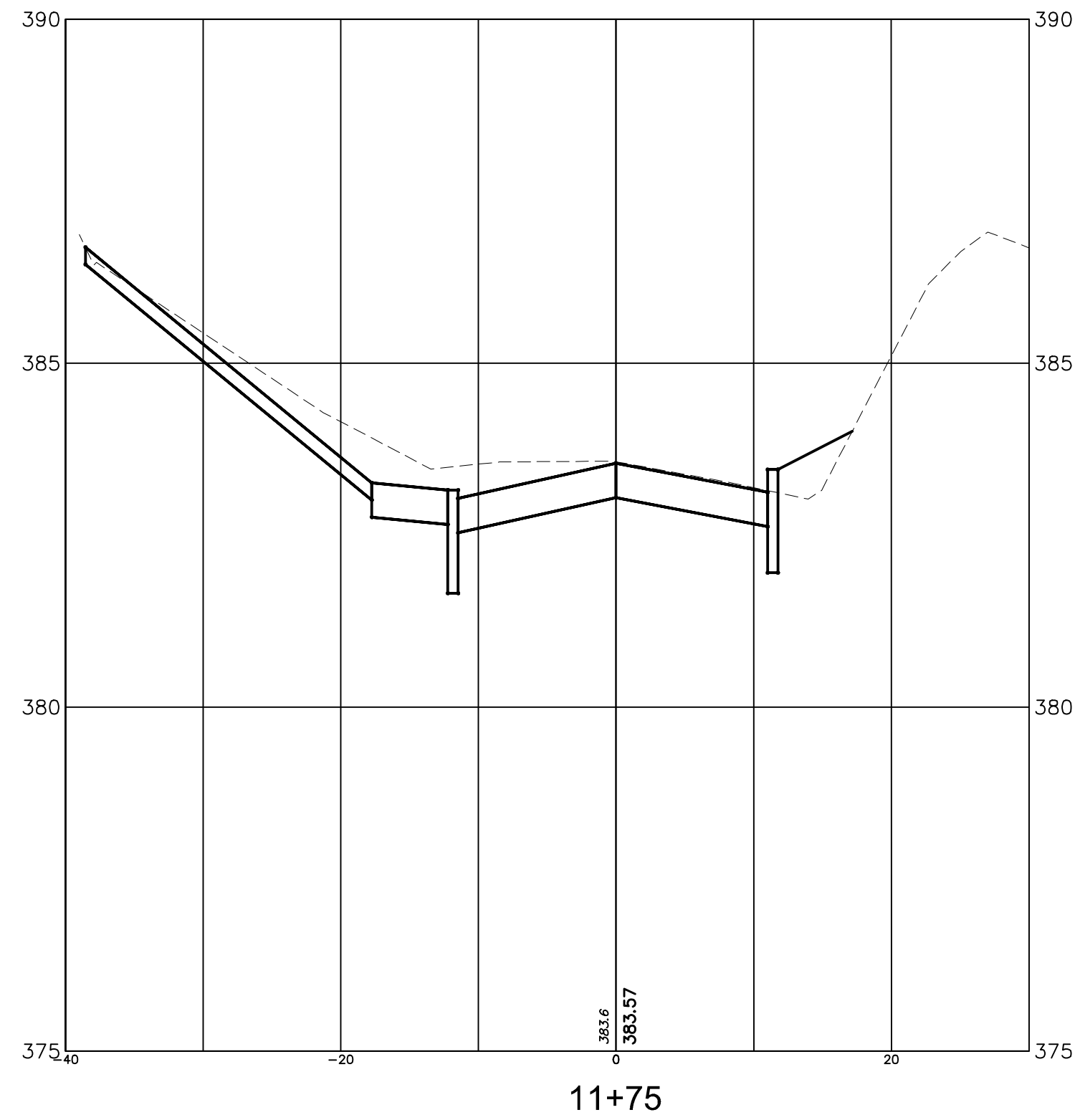
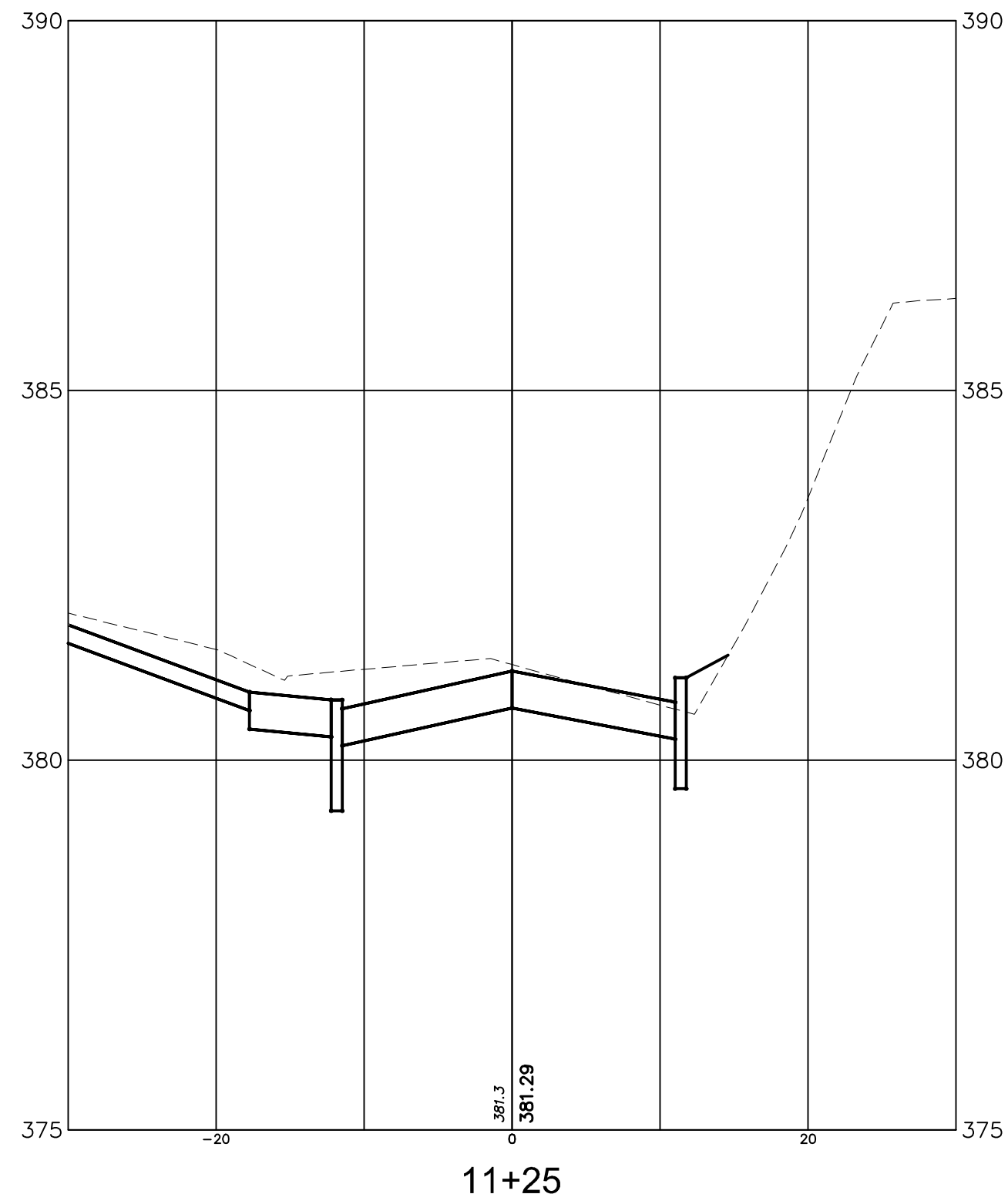
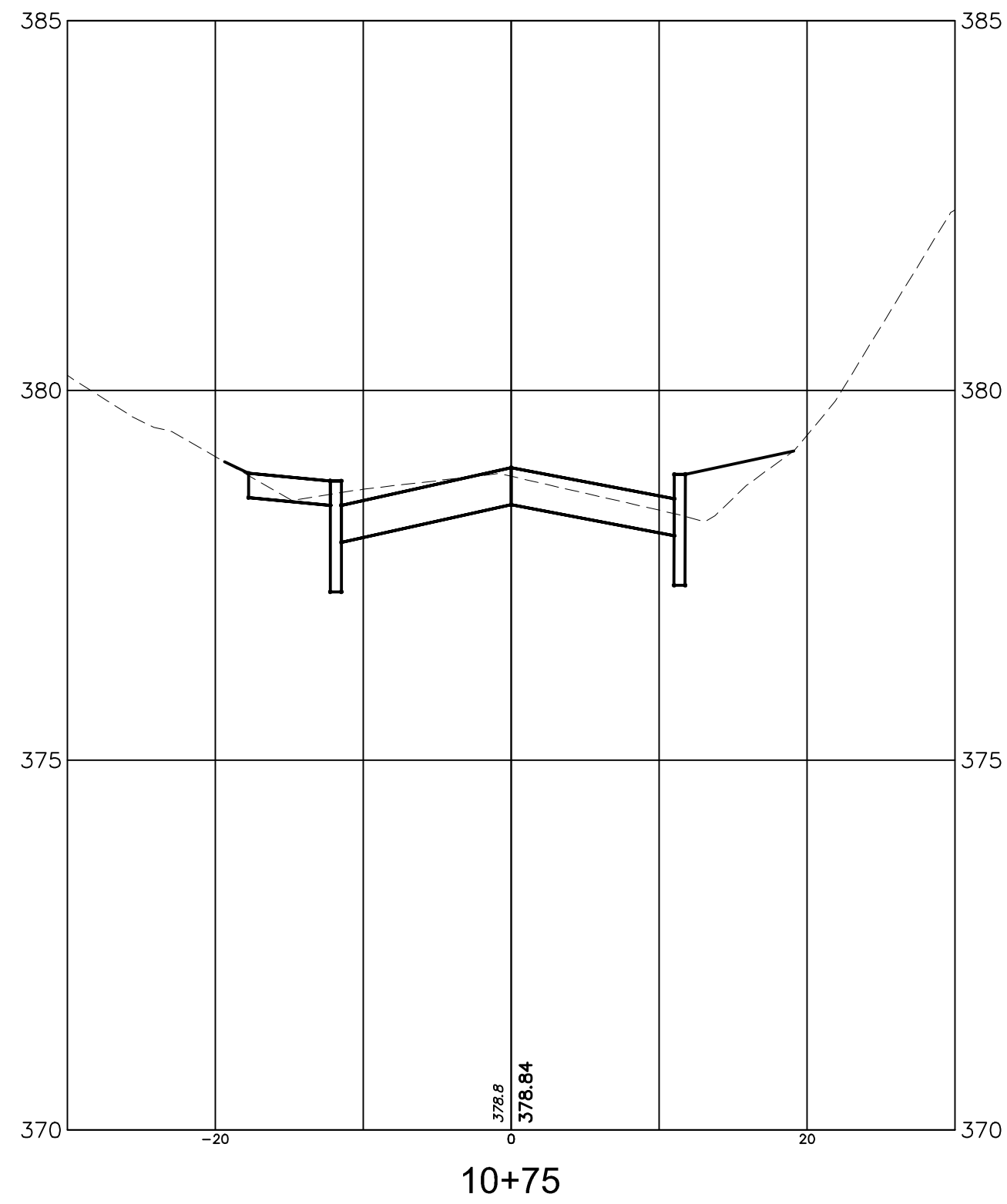
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
GREGORY AVENUE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

19
35

F:\Projects\VCEA - Phillipsburg Office\2004-MRR - Morris Township Roads\DMC 2019\Gregory\2004MRR-construction - SECTIONS.dwg - 020 - XSEC 7



			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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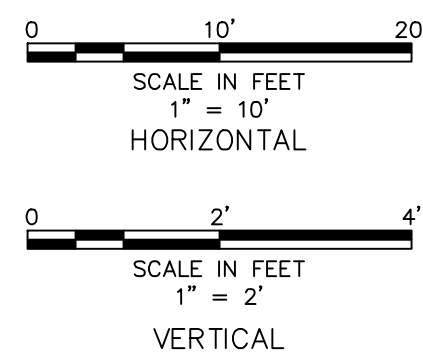
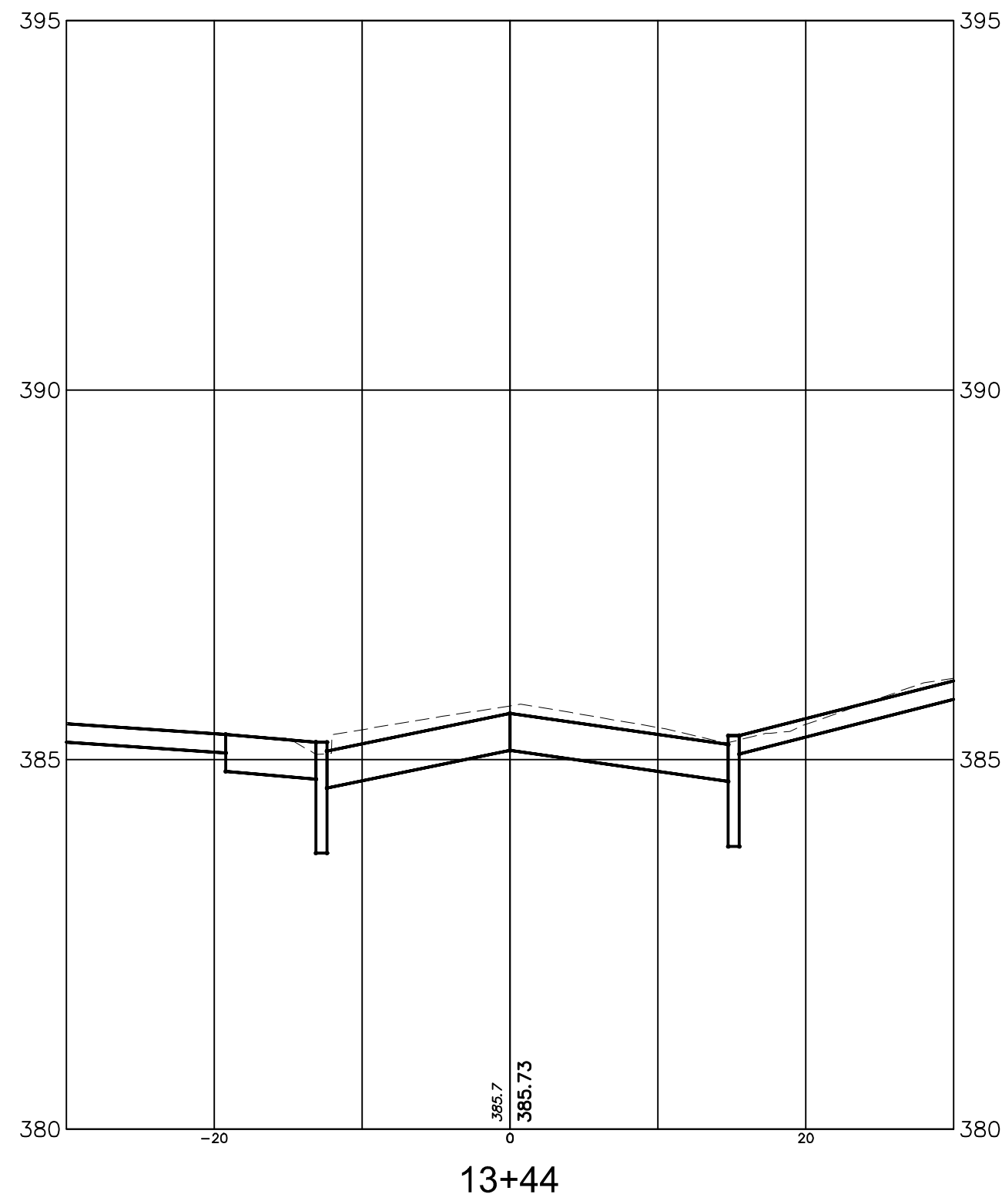
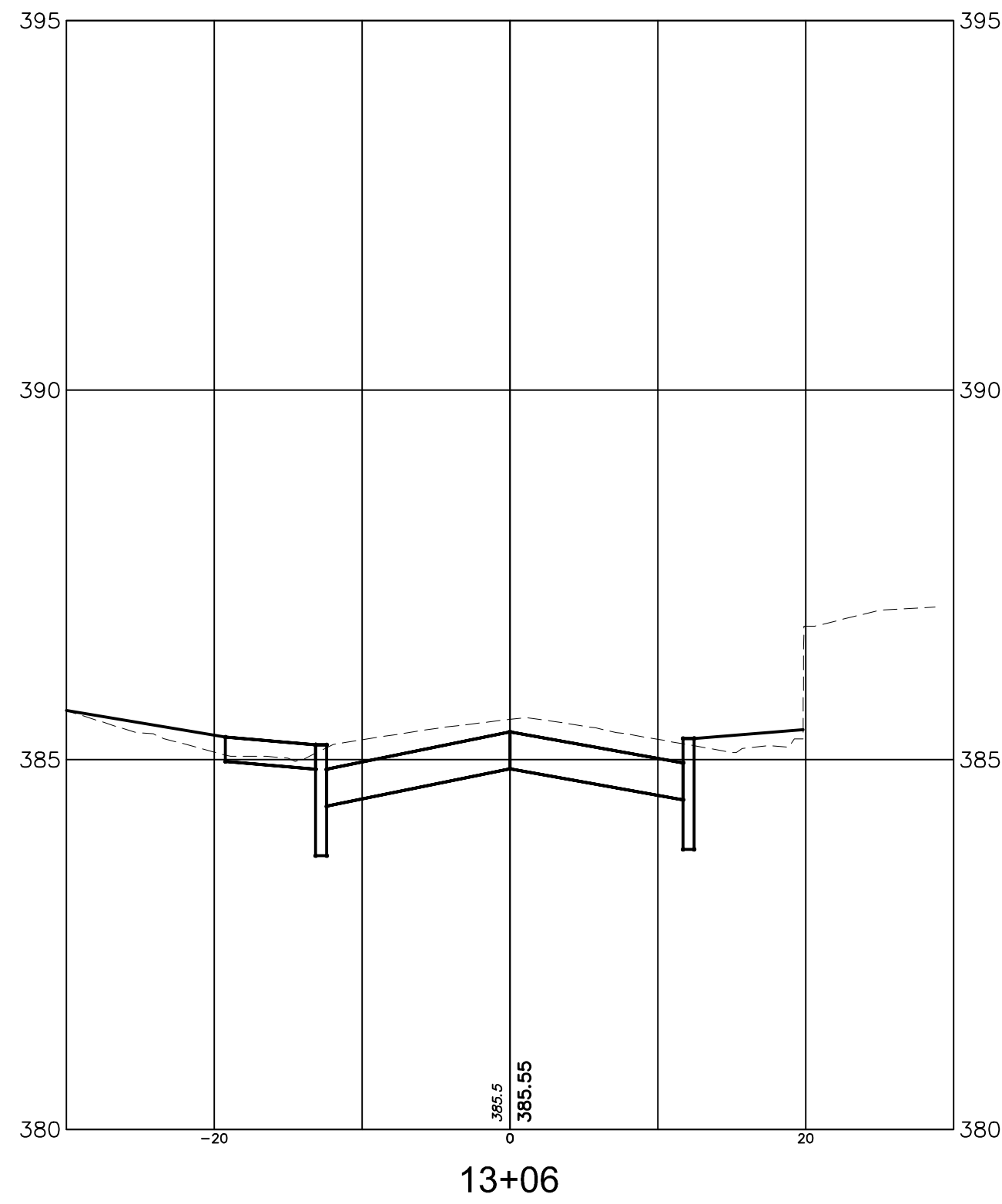
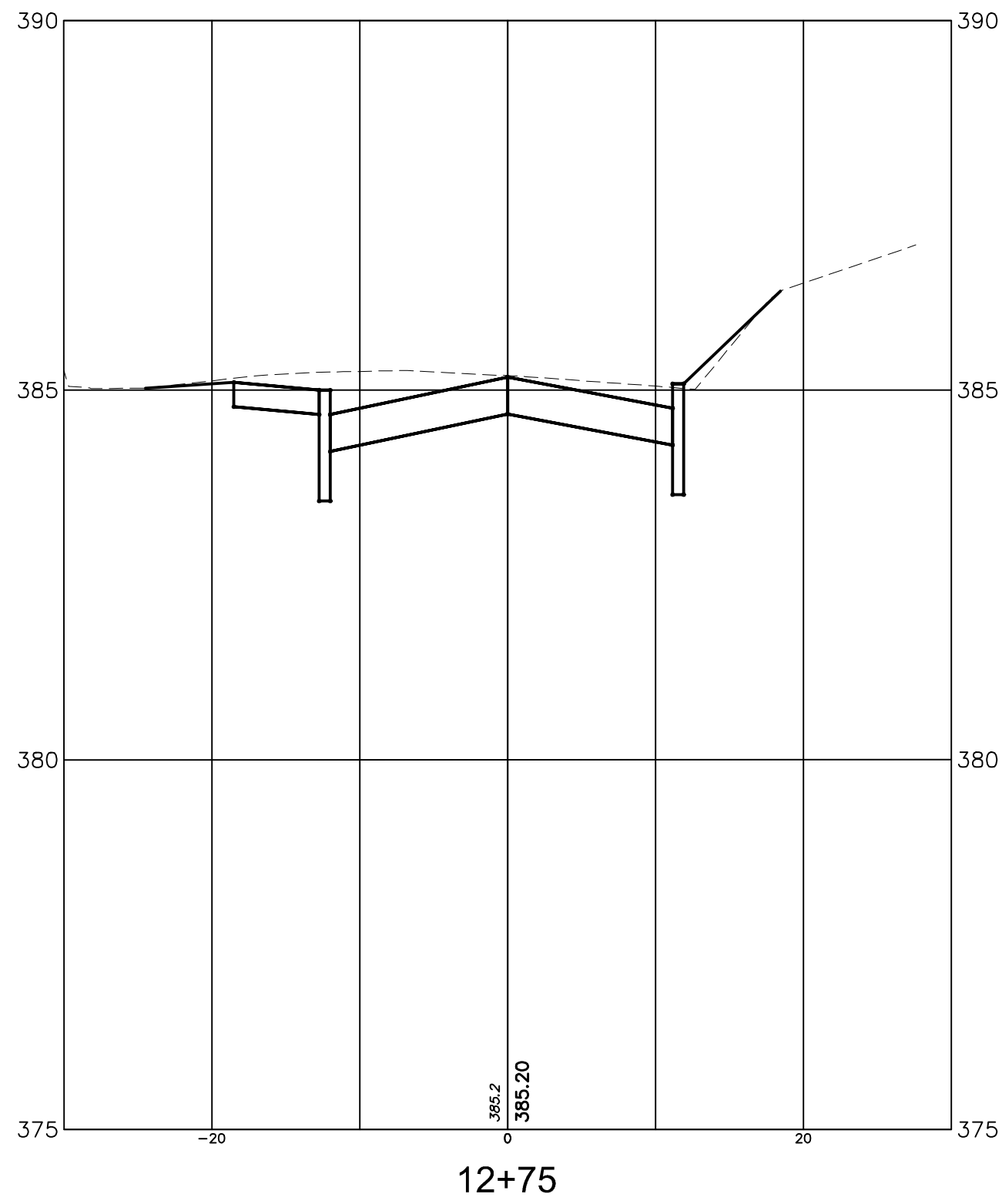
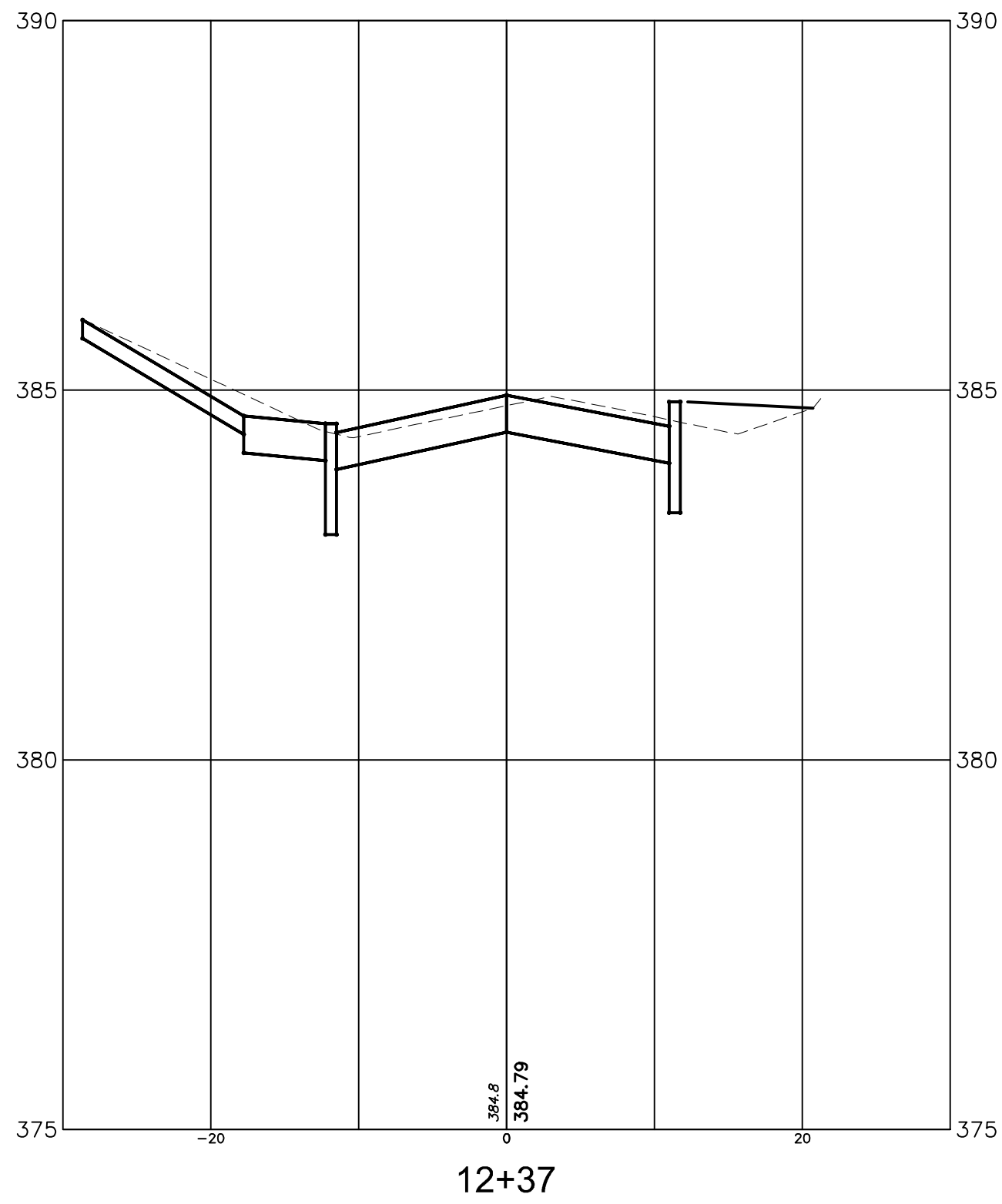
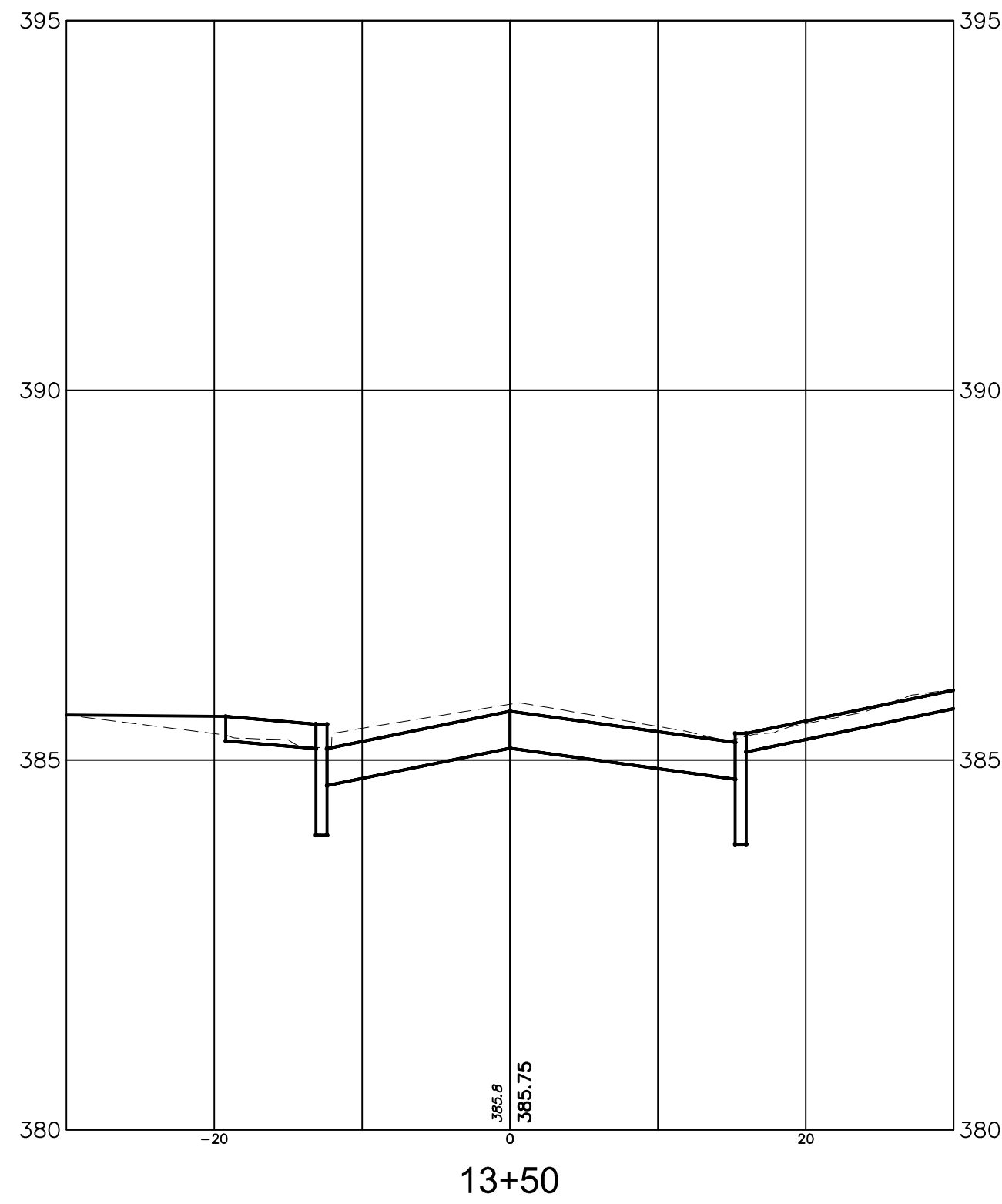
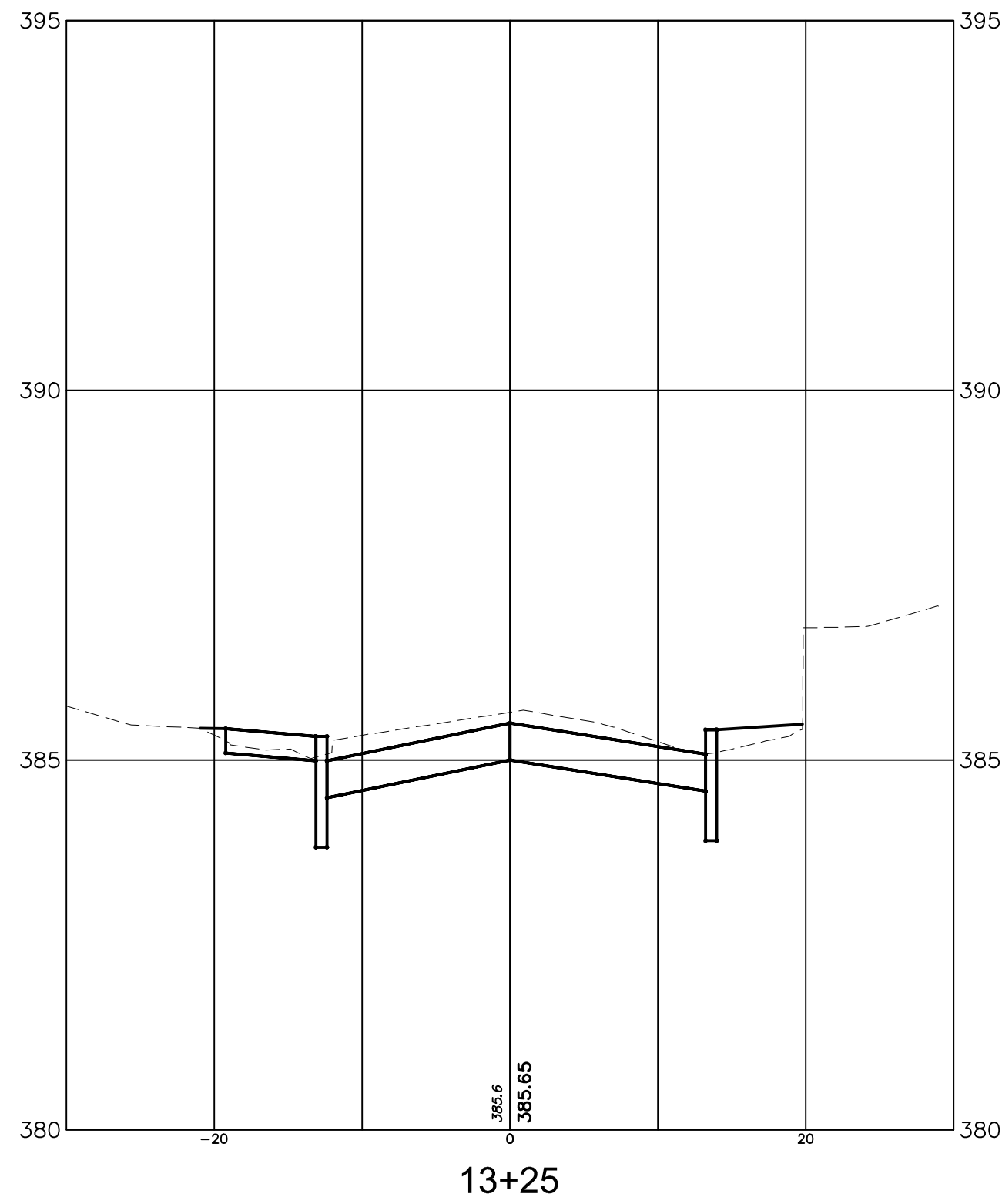
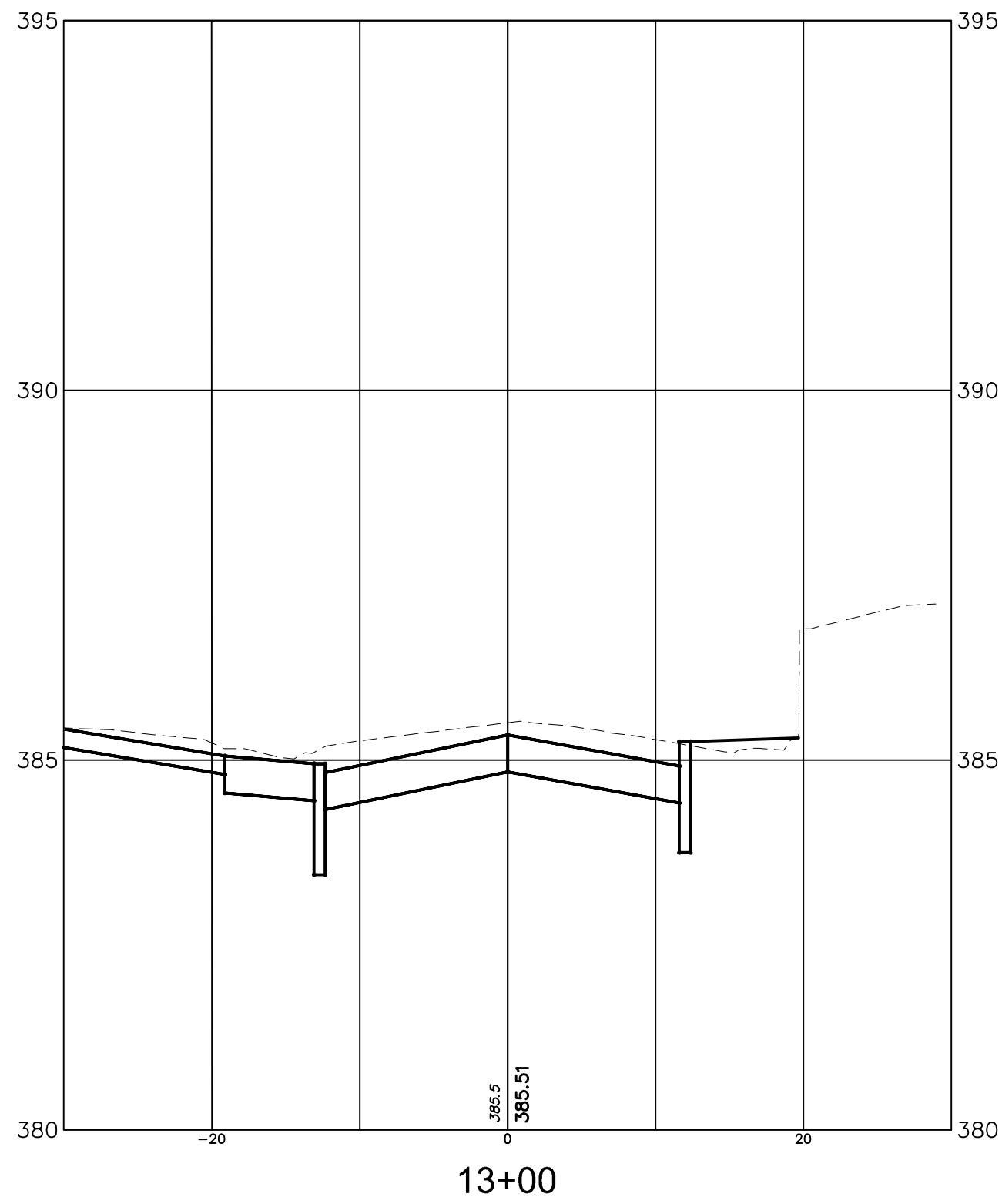
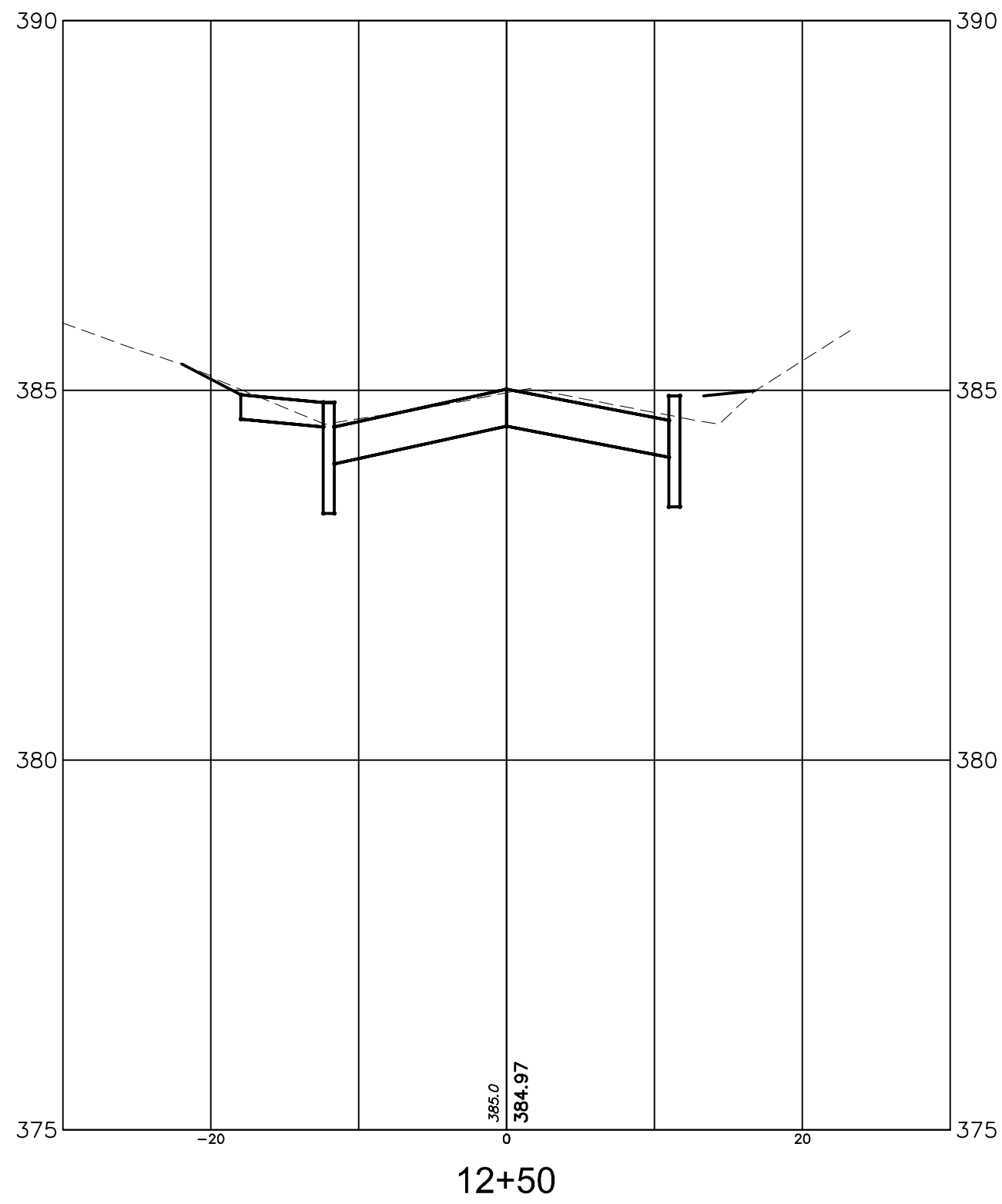
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
GREGORY AVENUE & KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

20
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
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REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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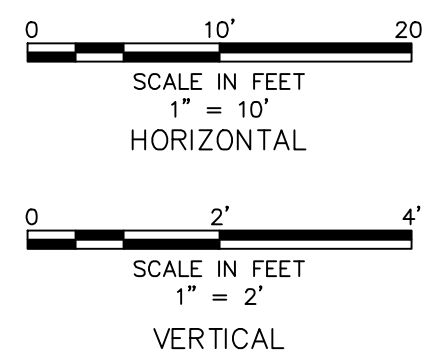
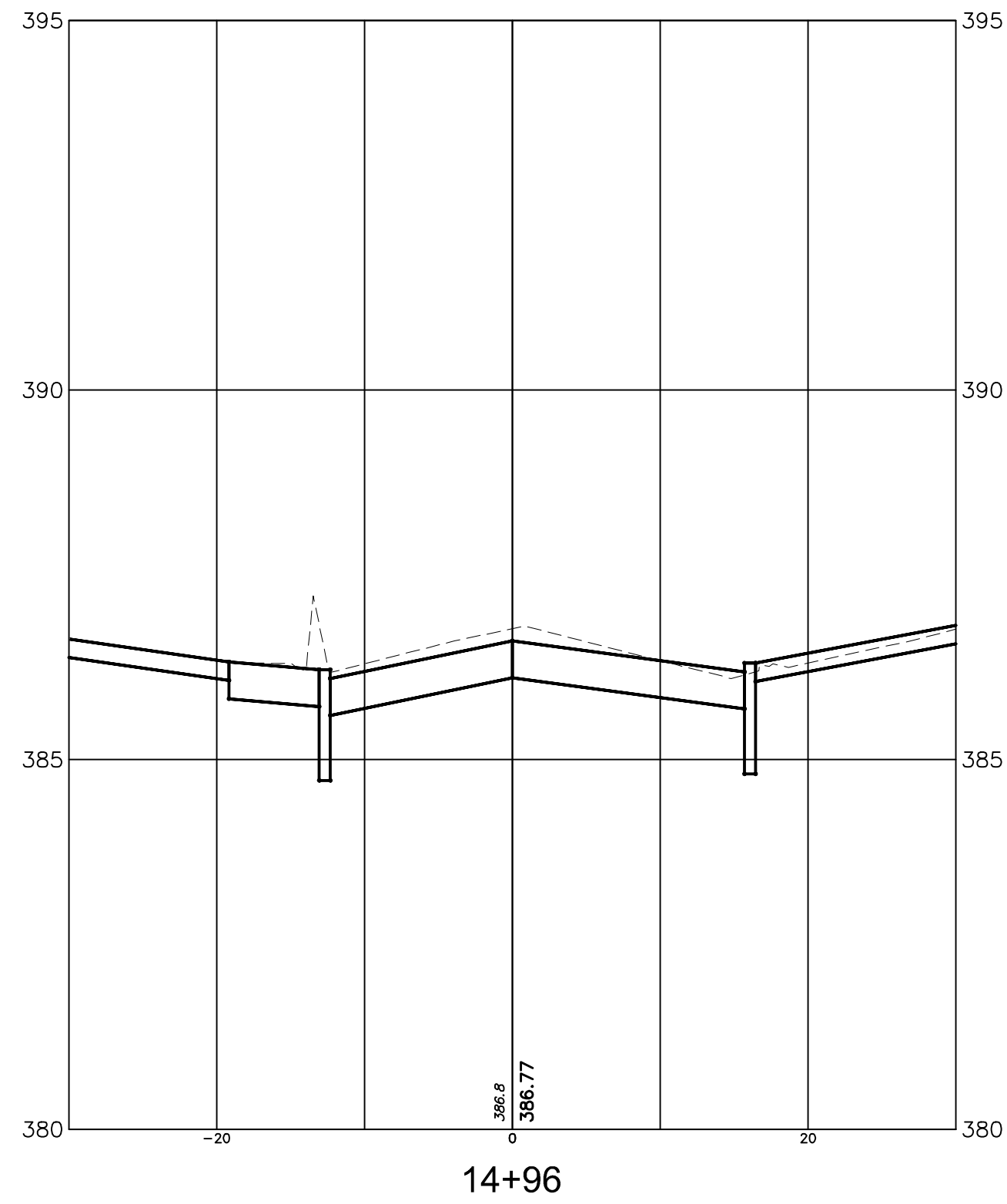
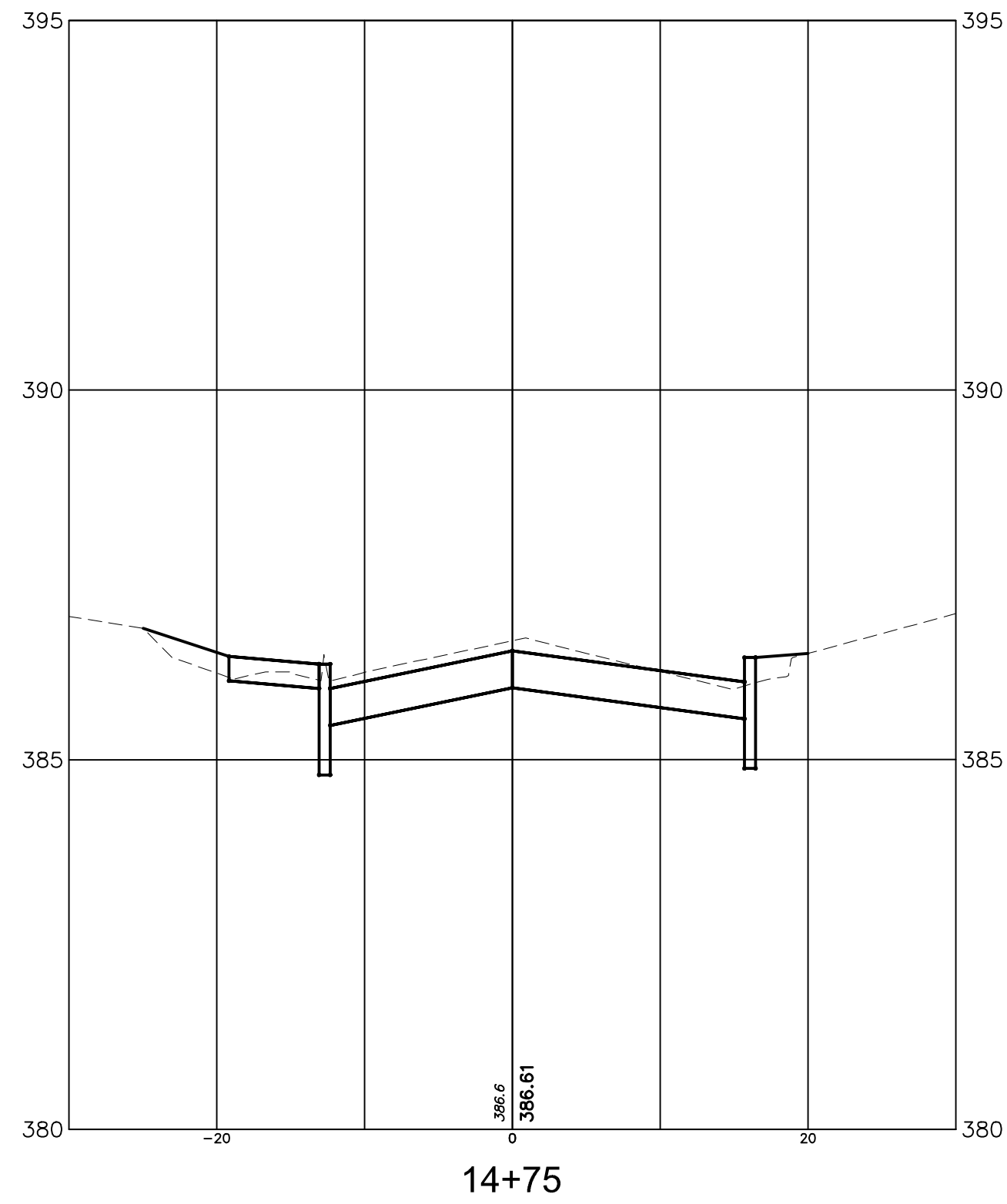
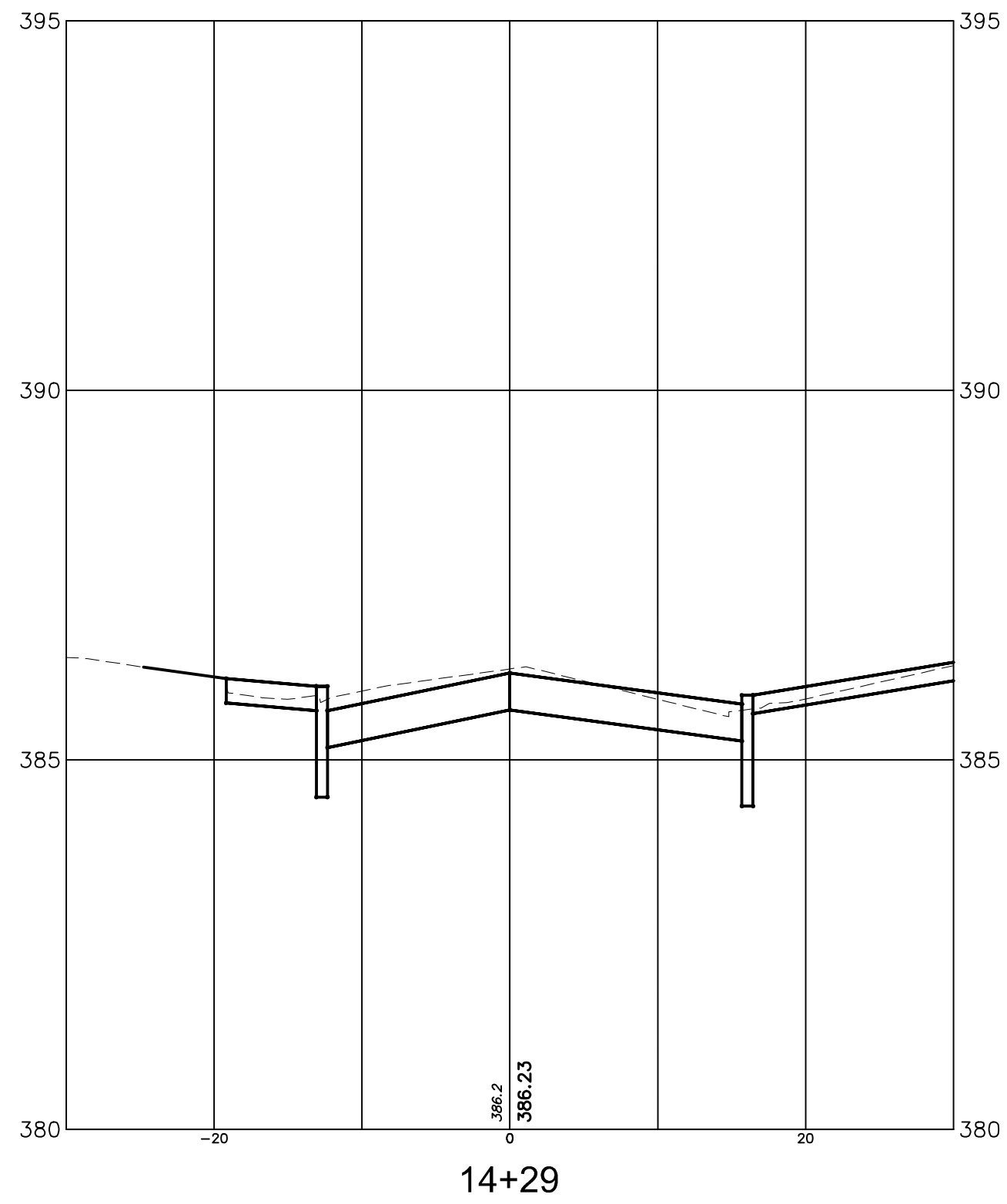
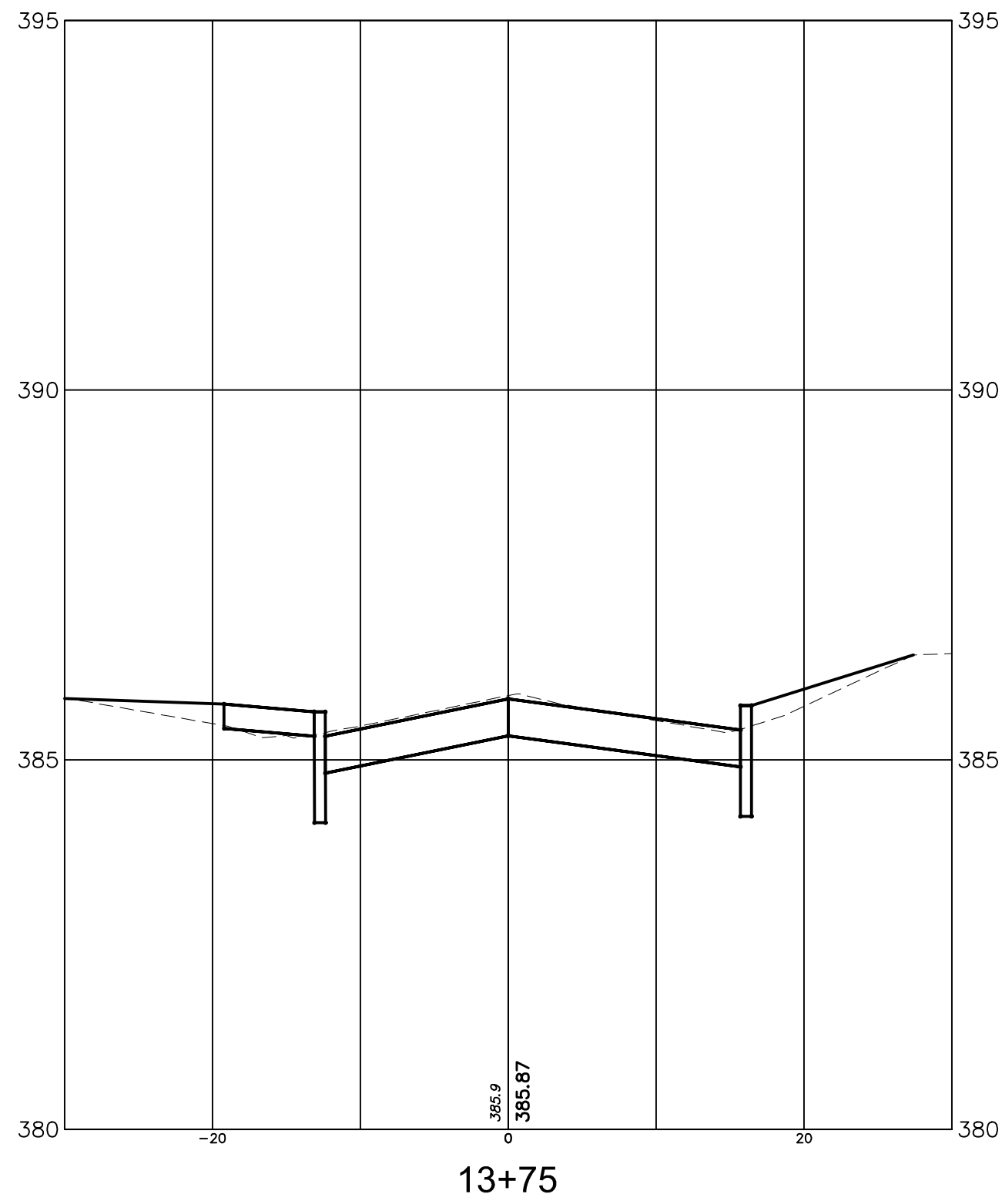
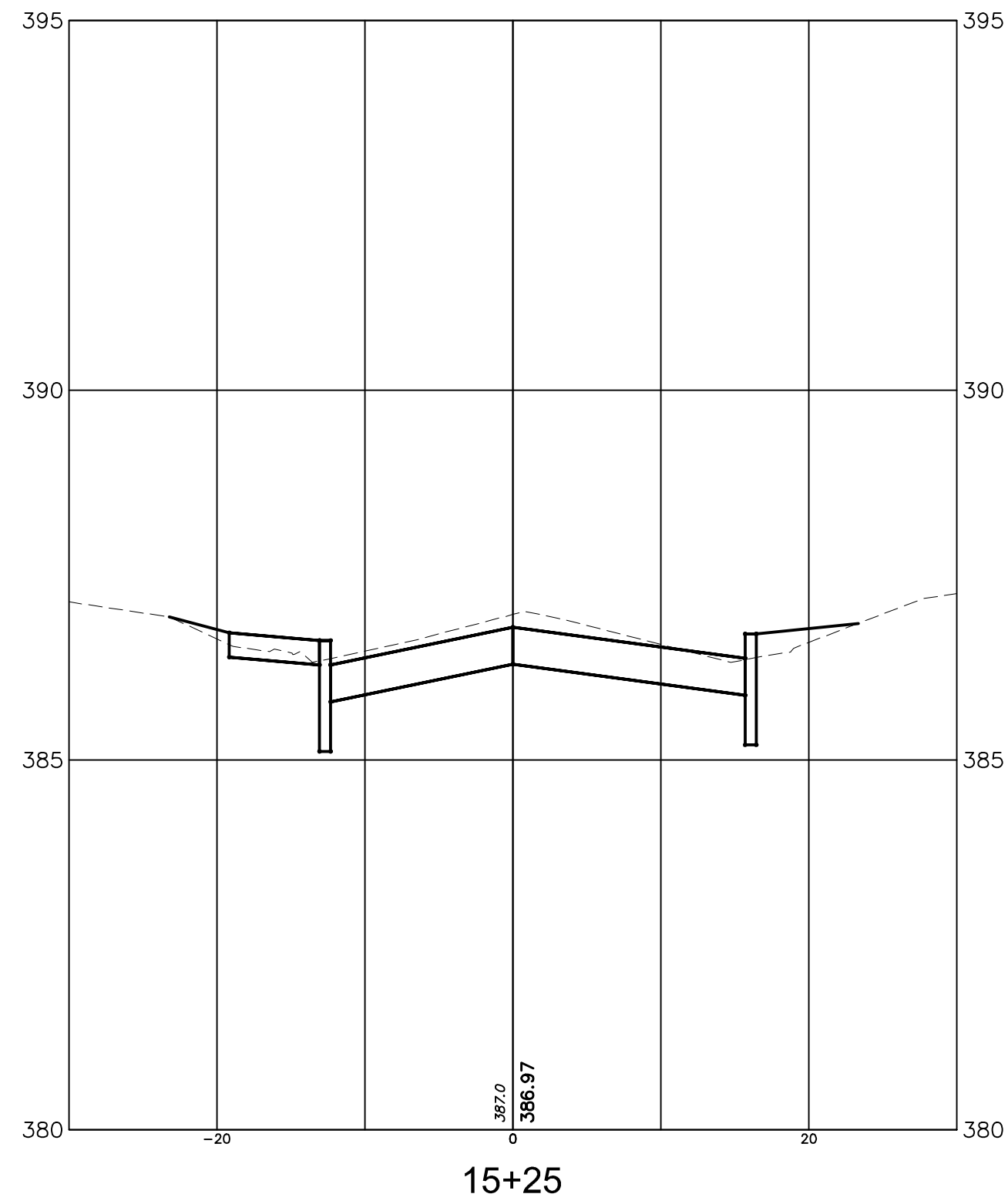
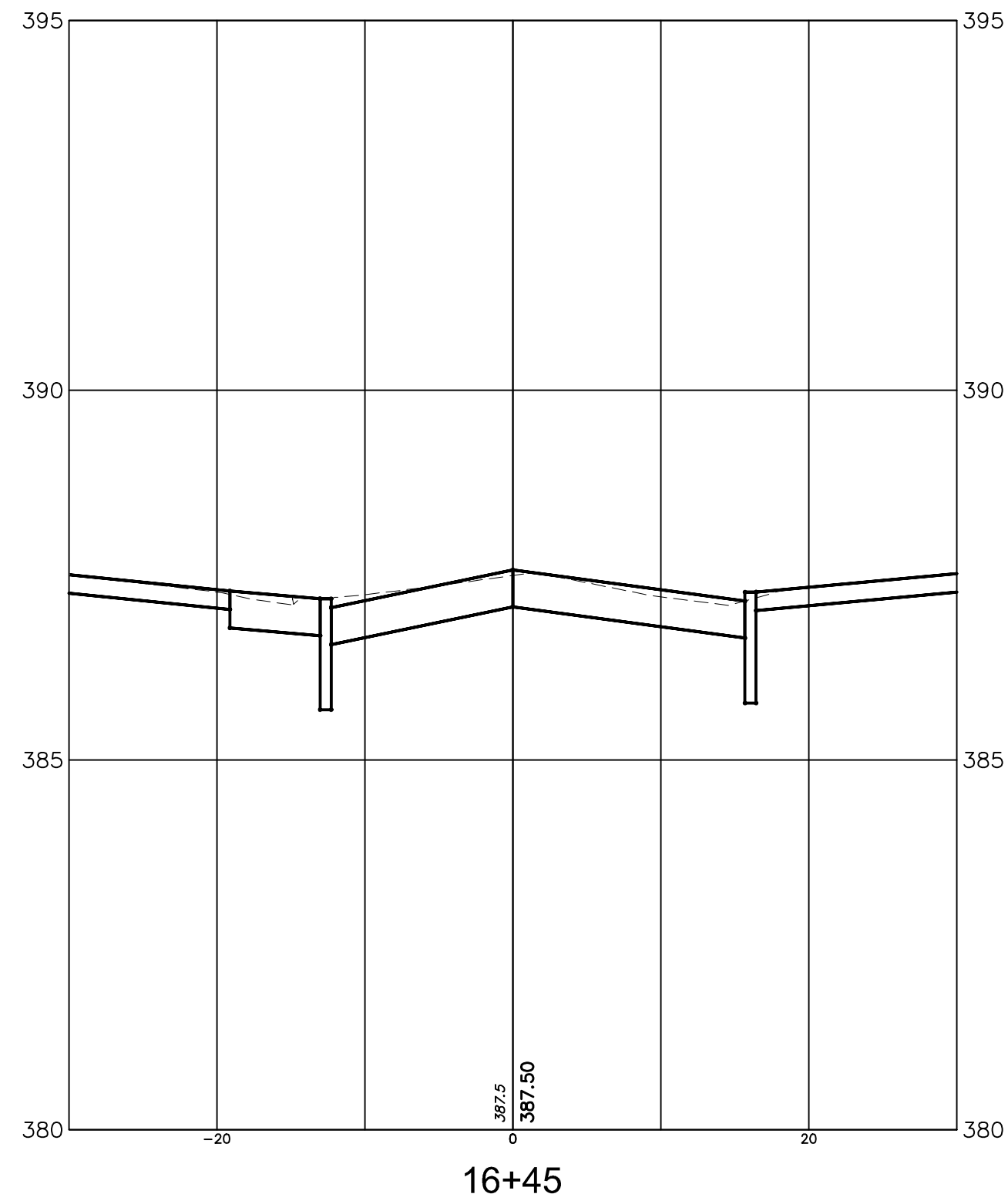
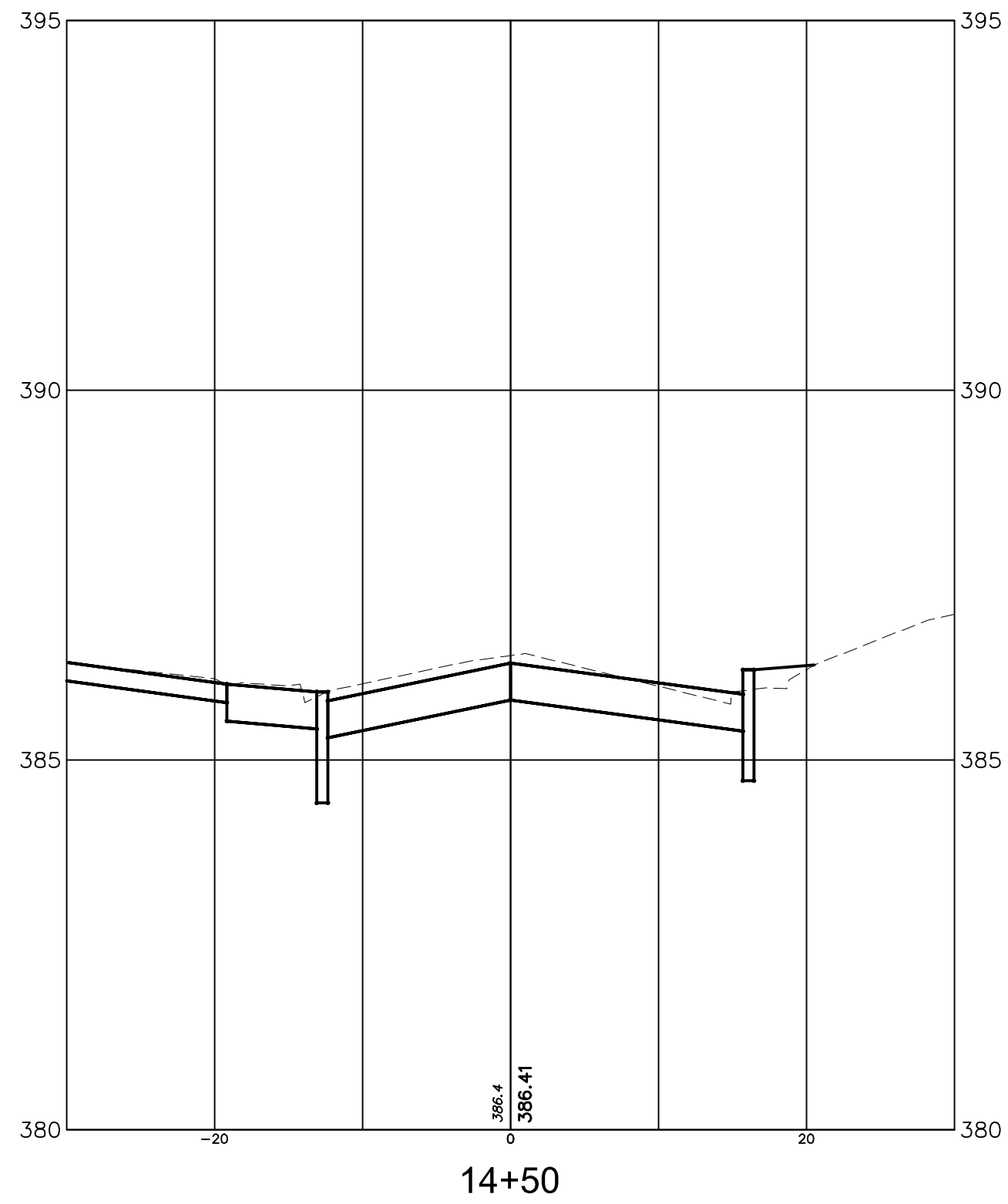
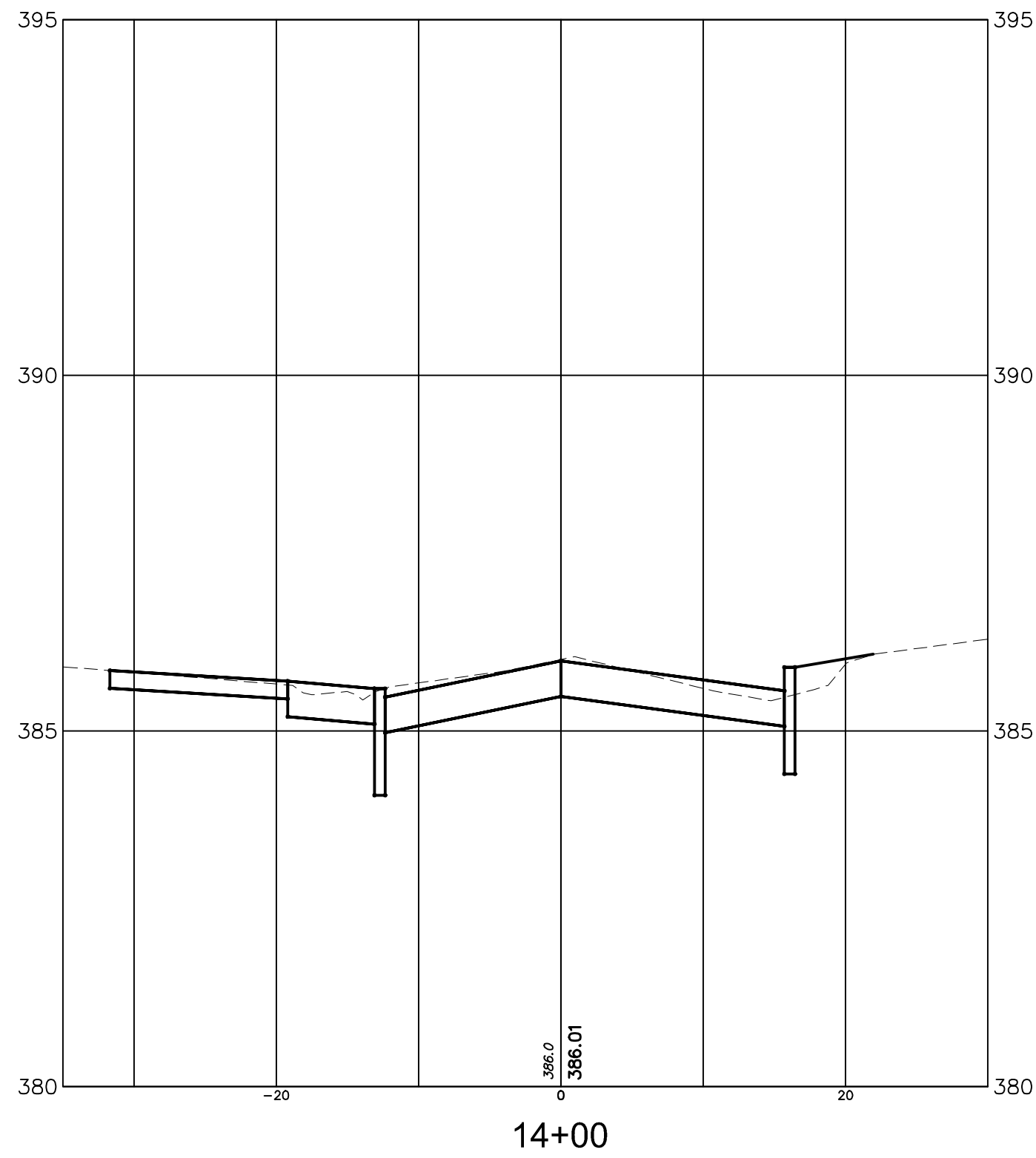
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

21
35

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			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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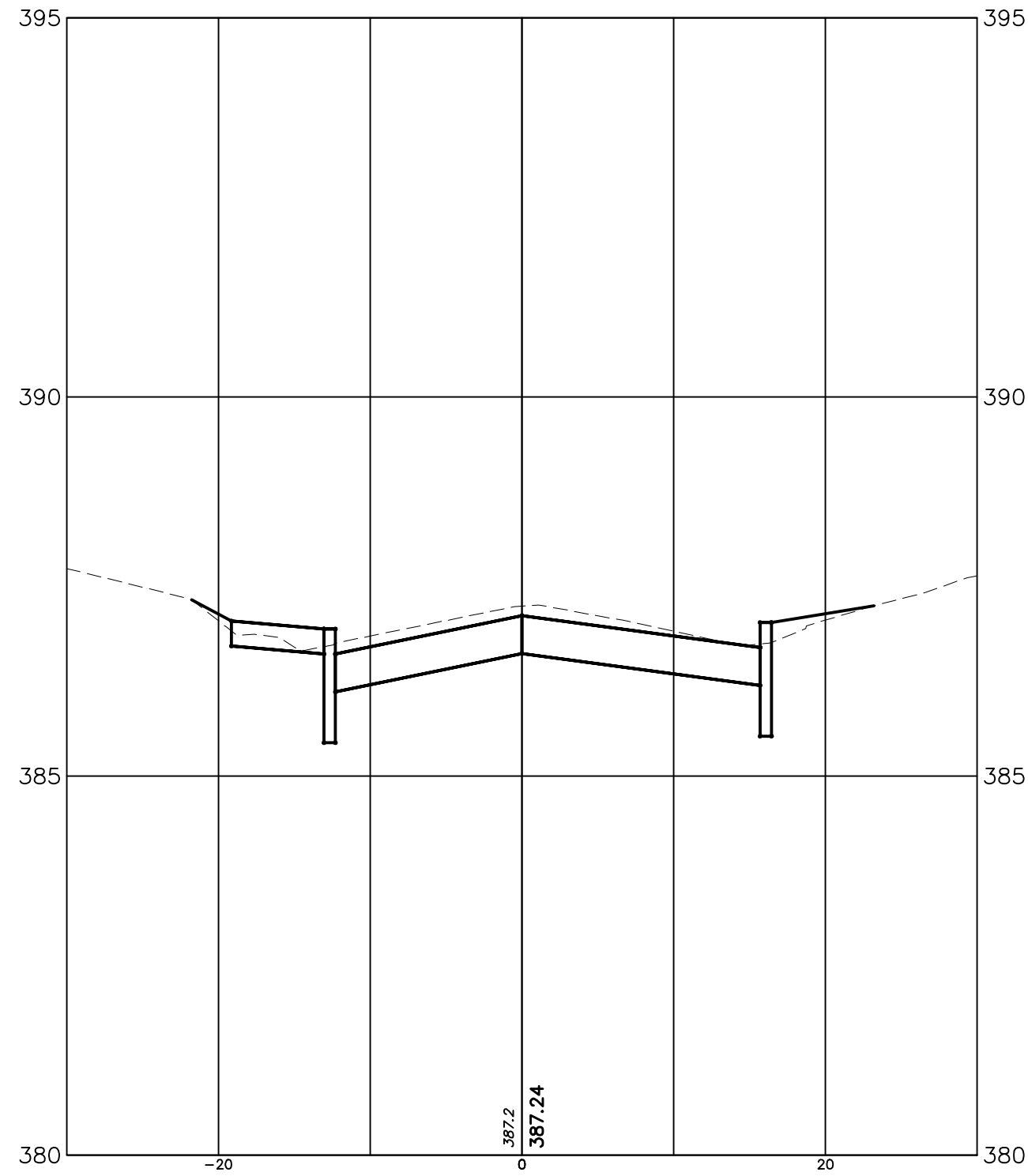
Consulting Civil Engineering
Bridge Design
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NJ LLC CERT. No. 24GA28132300

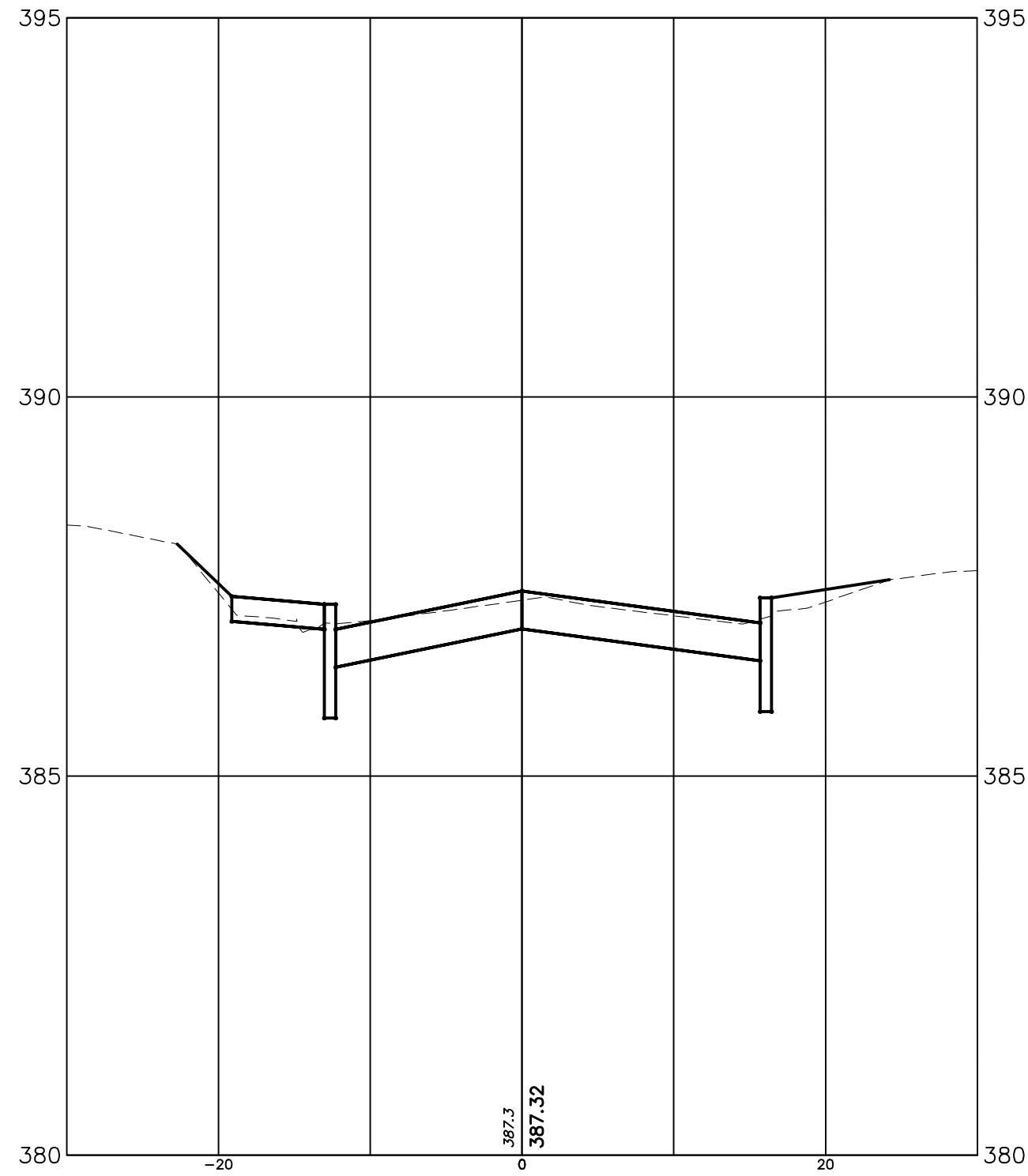
CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

22
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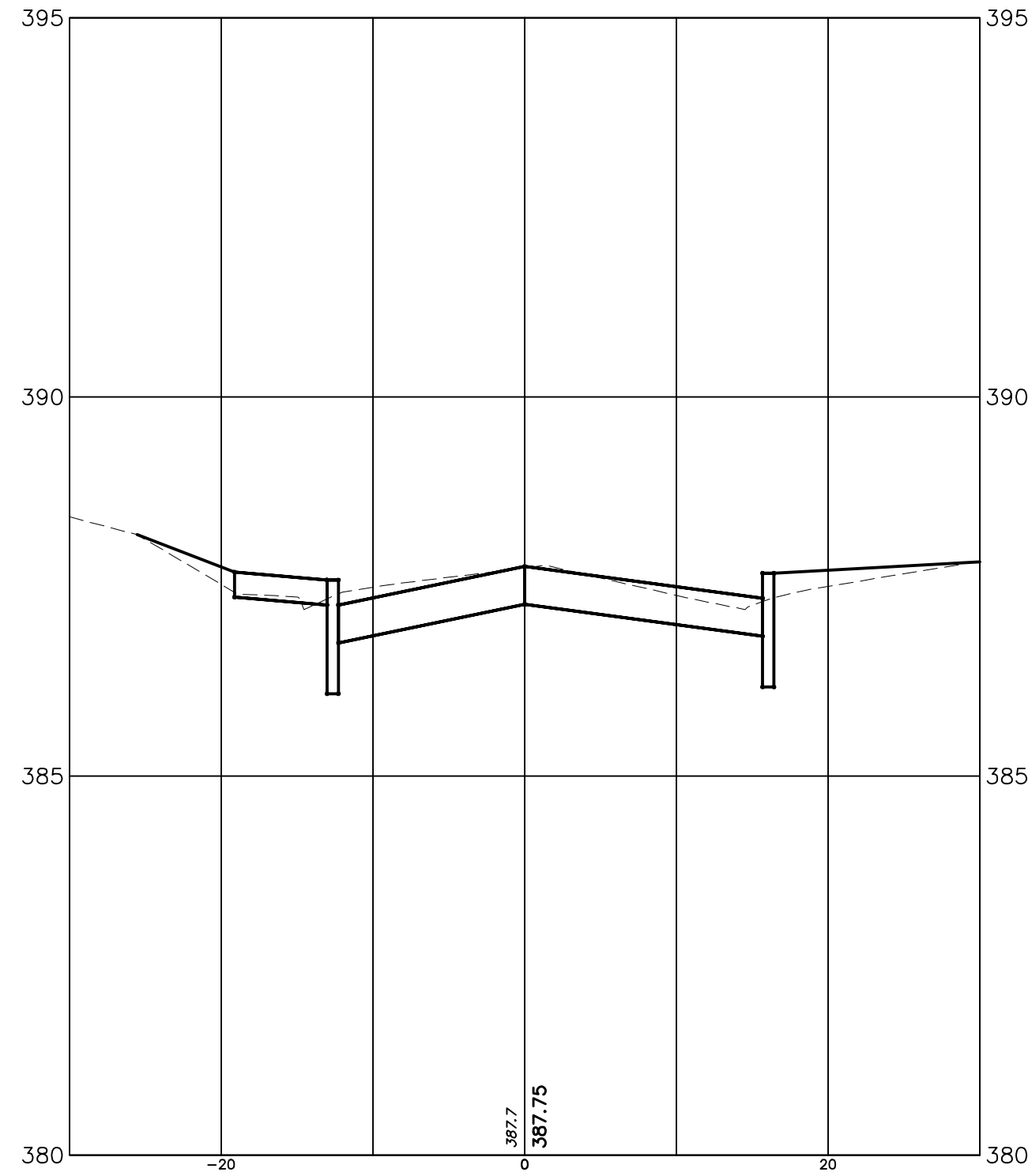
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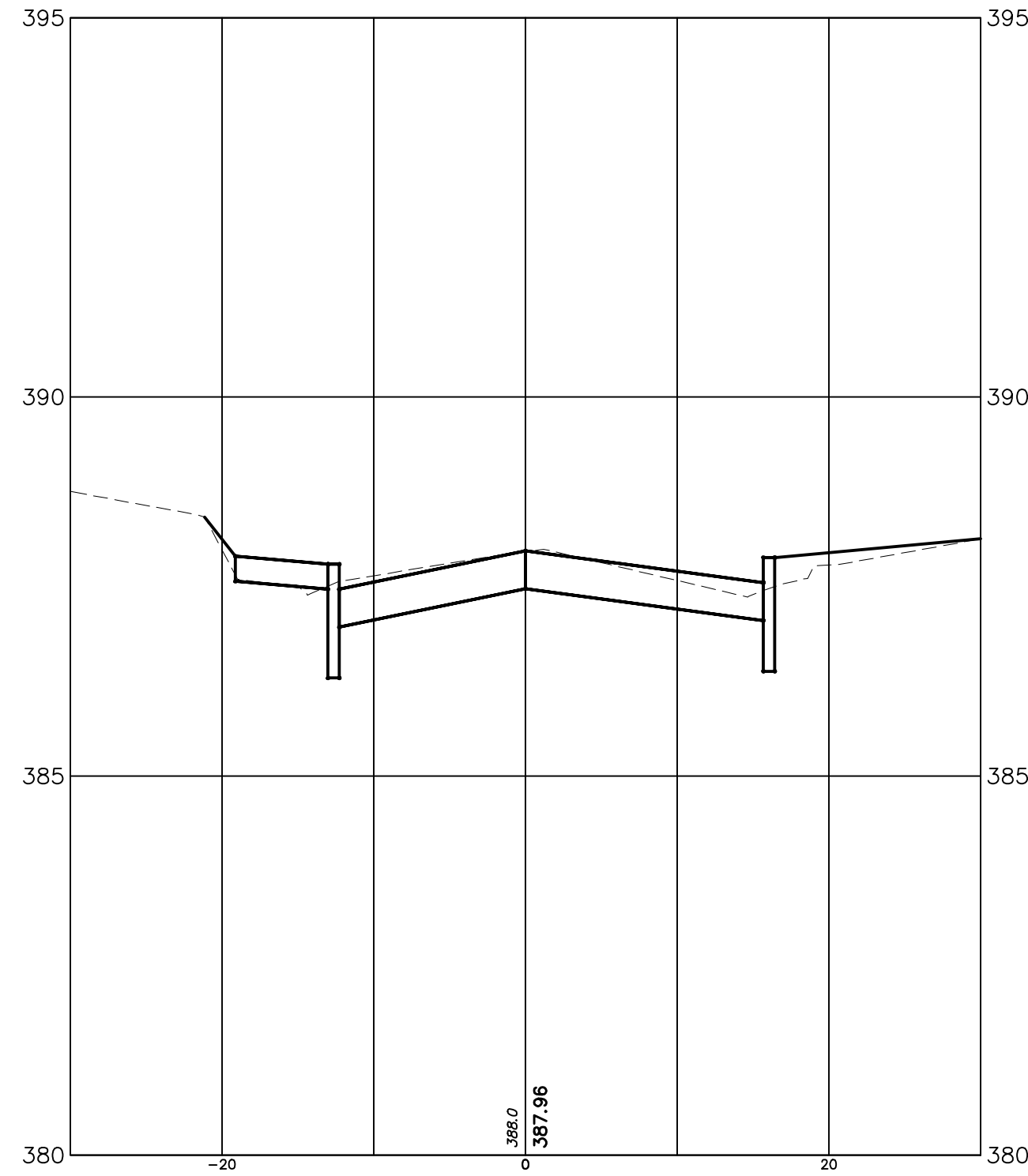
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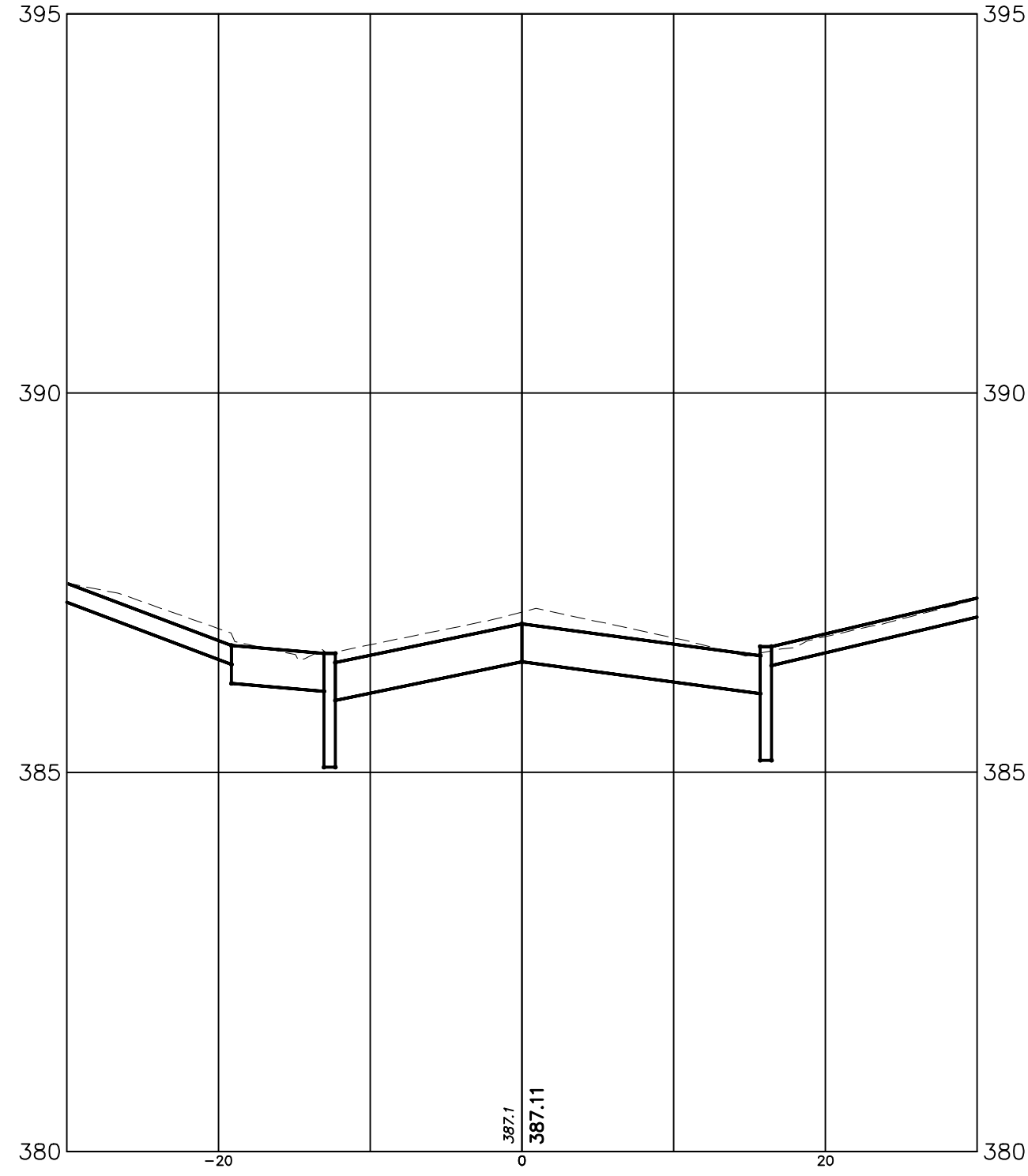
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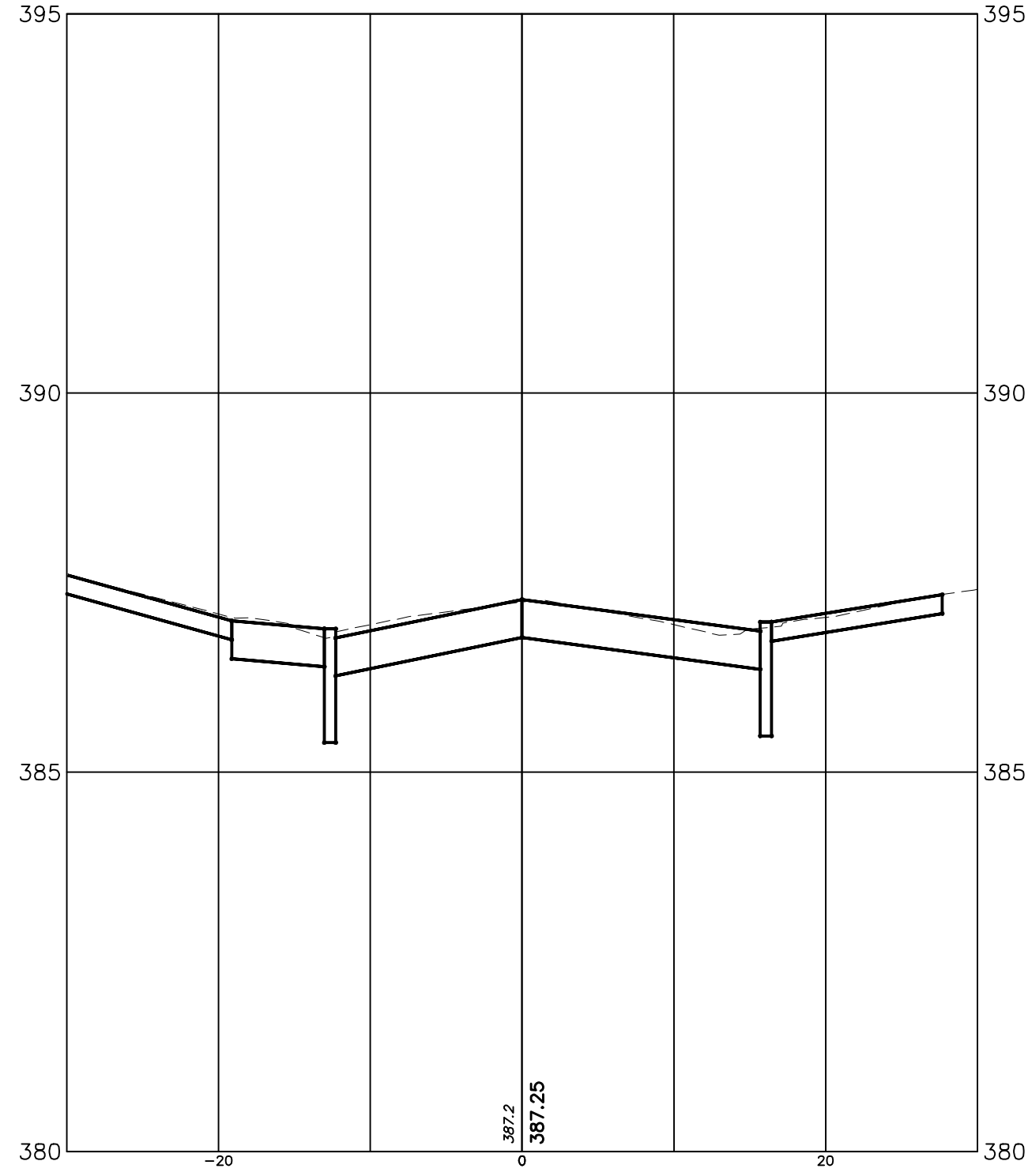
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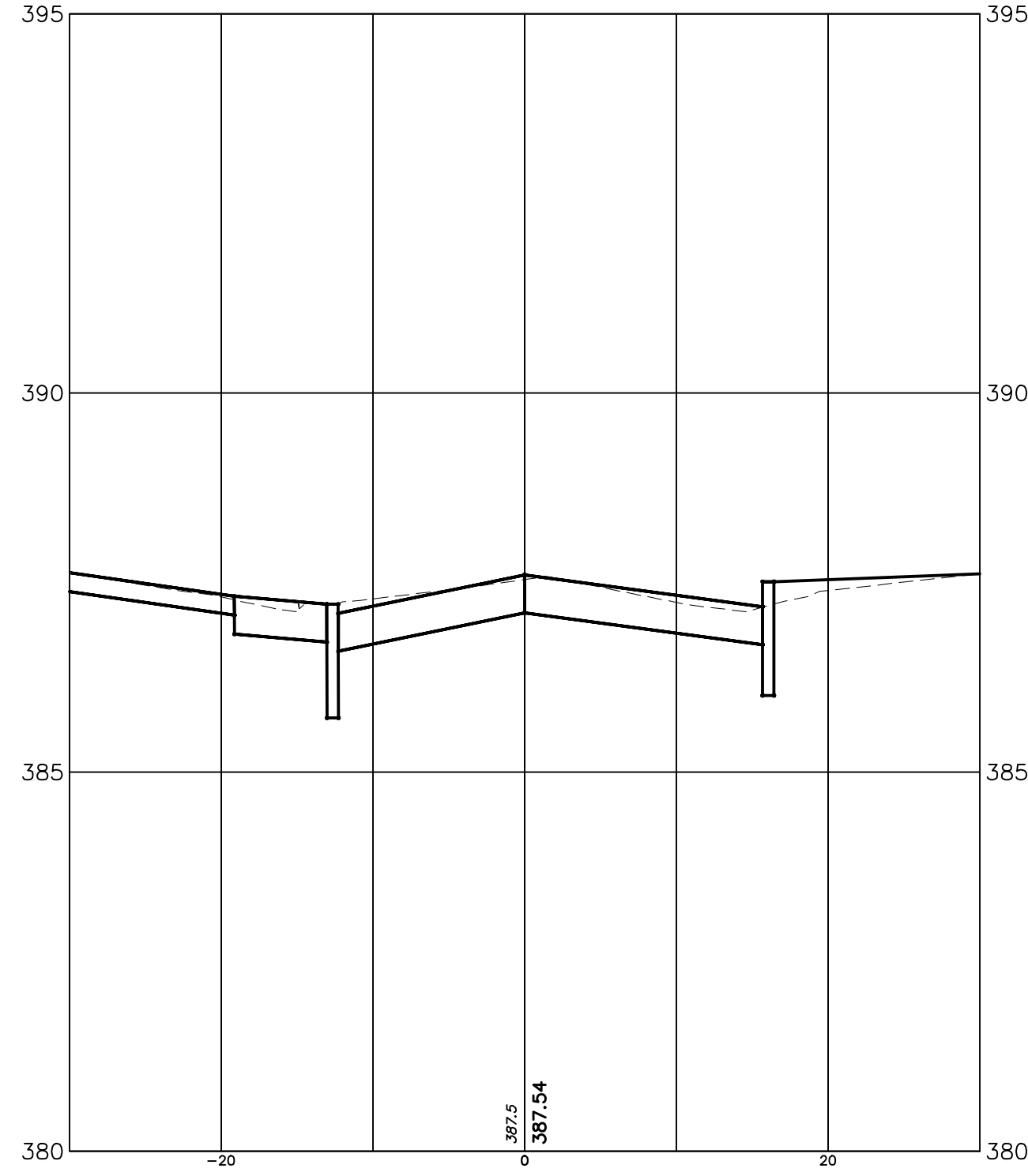
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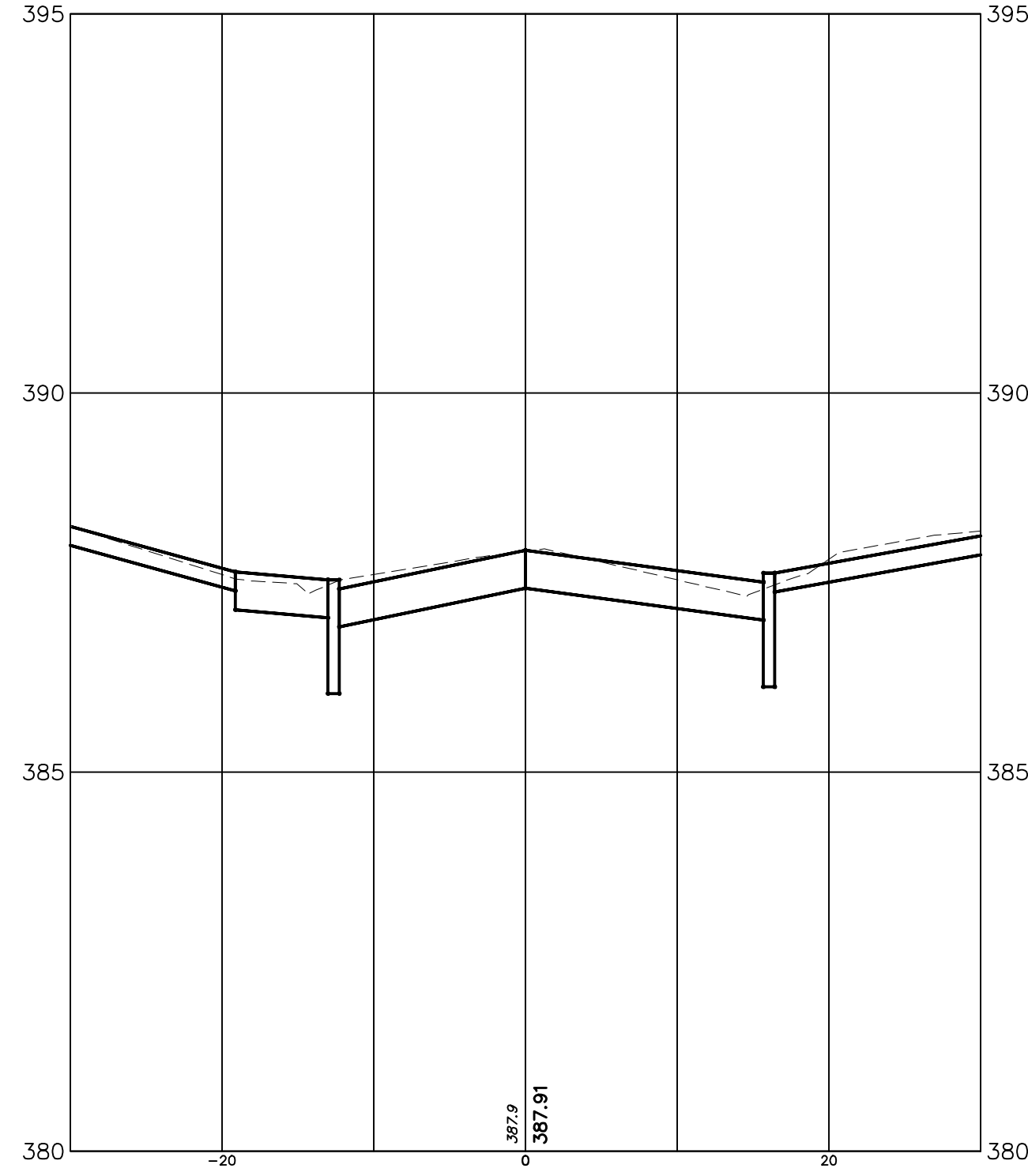
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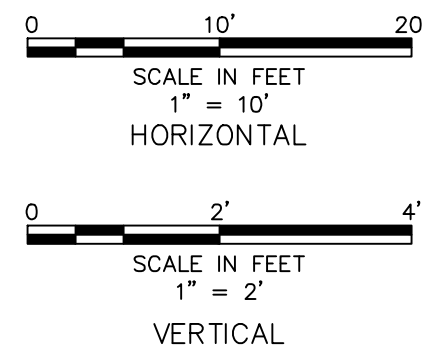
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16+50



17+00



			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



Van Cleaf
ENGINEERING ASSOCIATES, LLC

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WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 454-3080 FAX: (908) 454-1397

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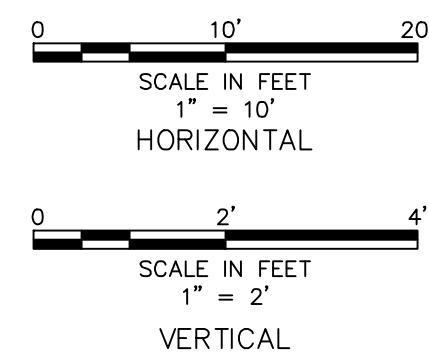
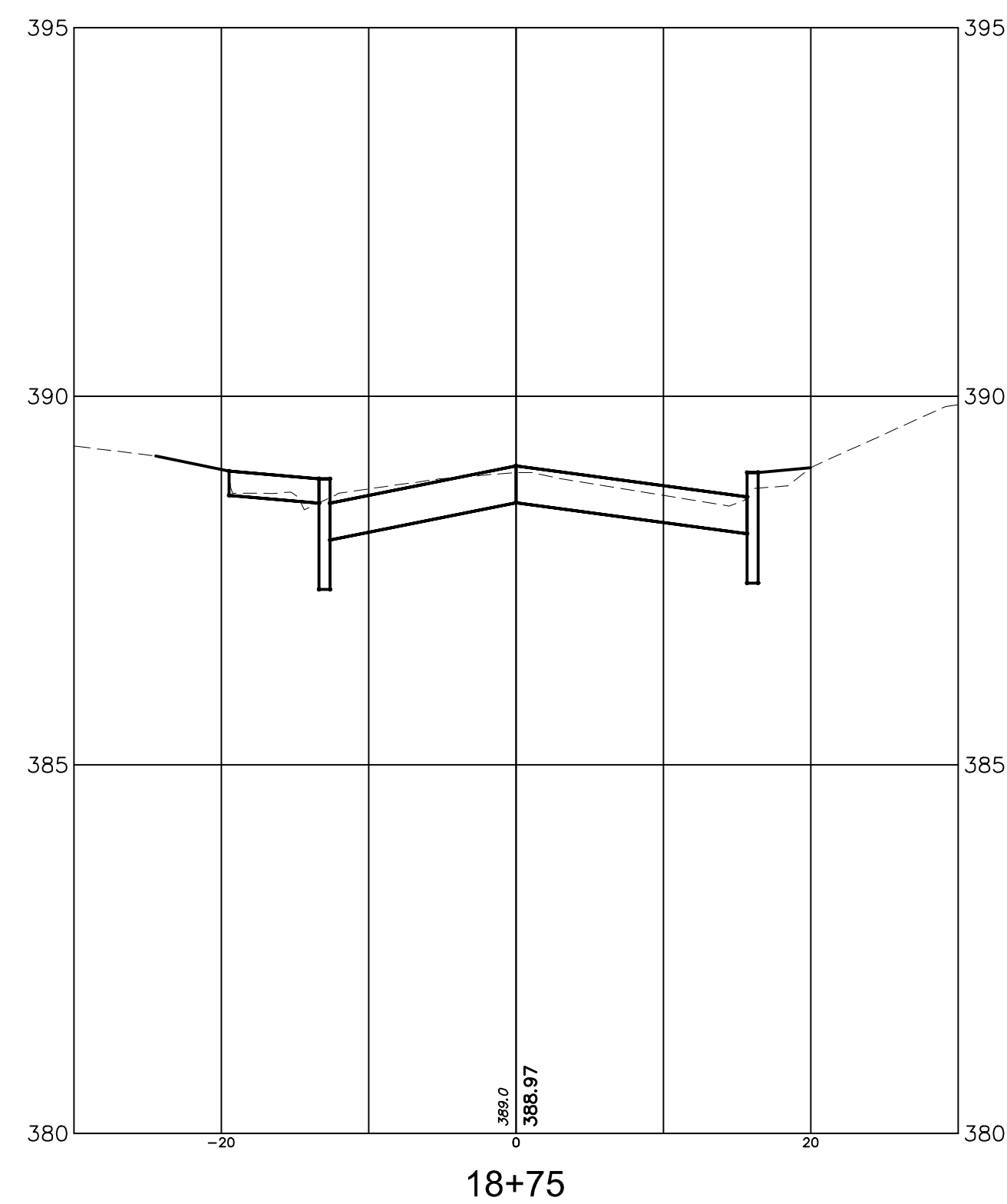
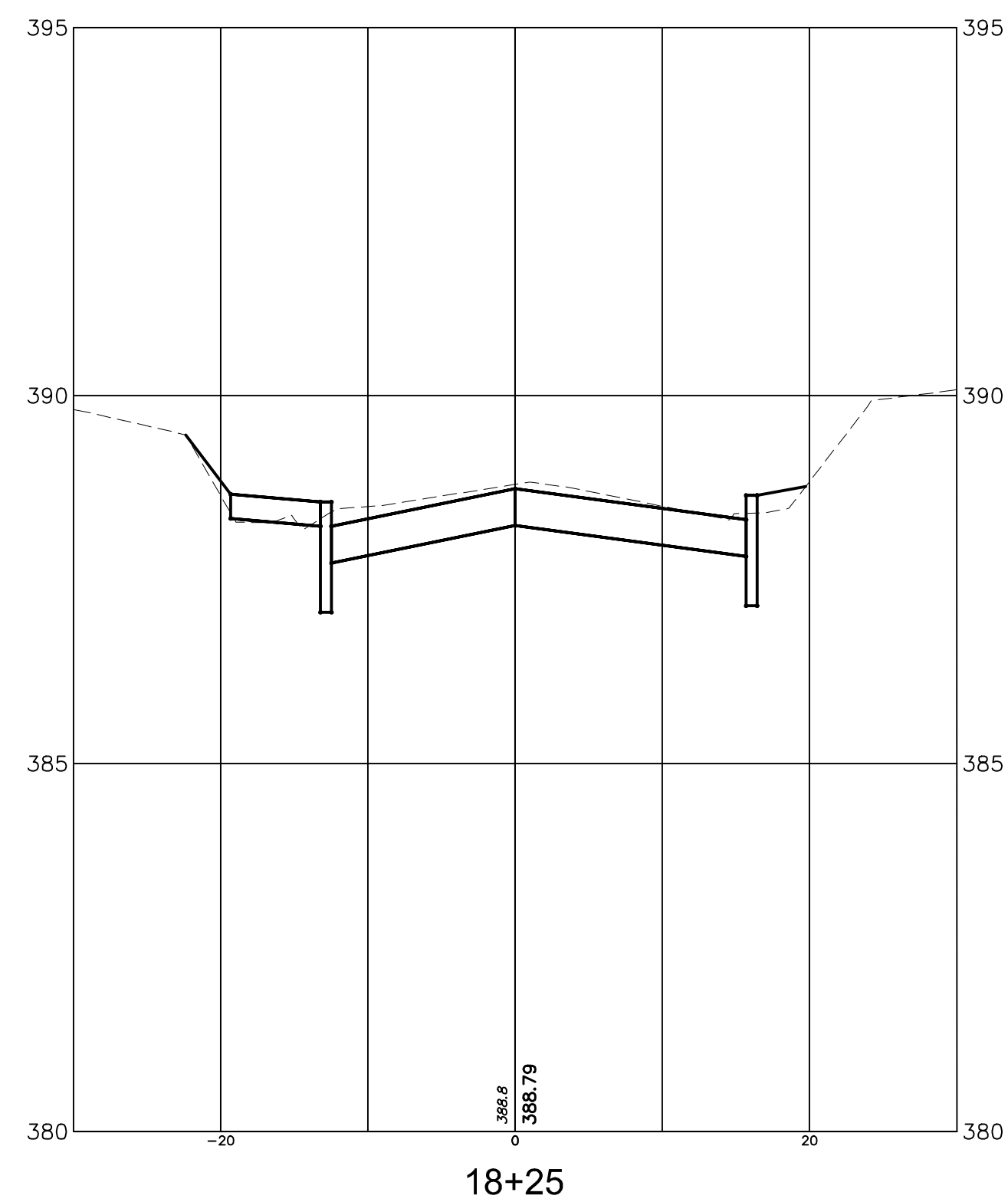
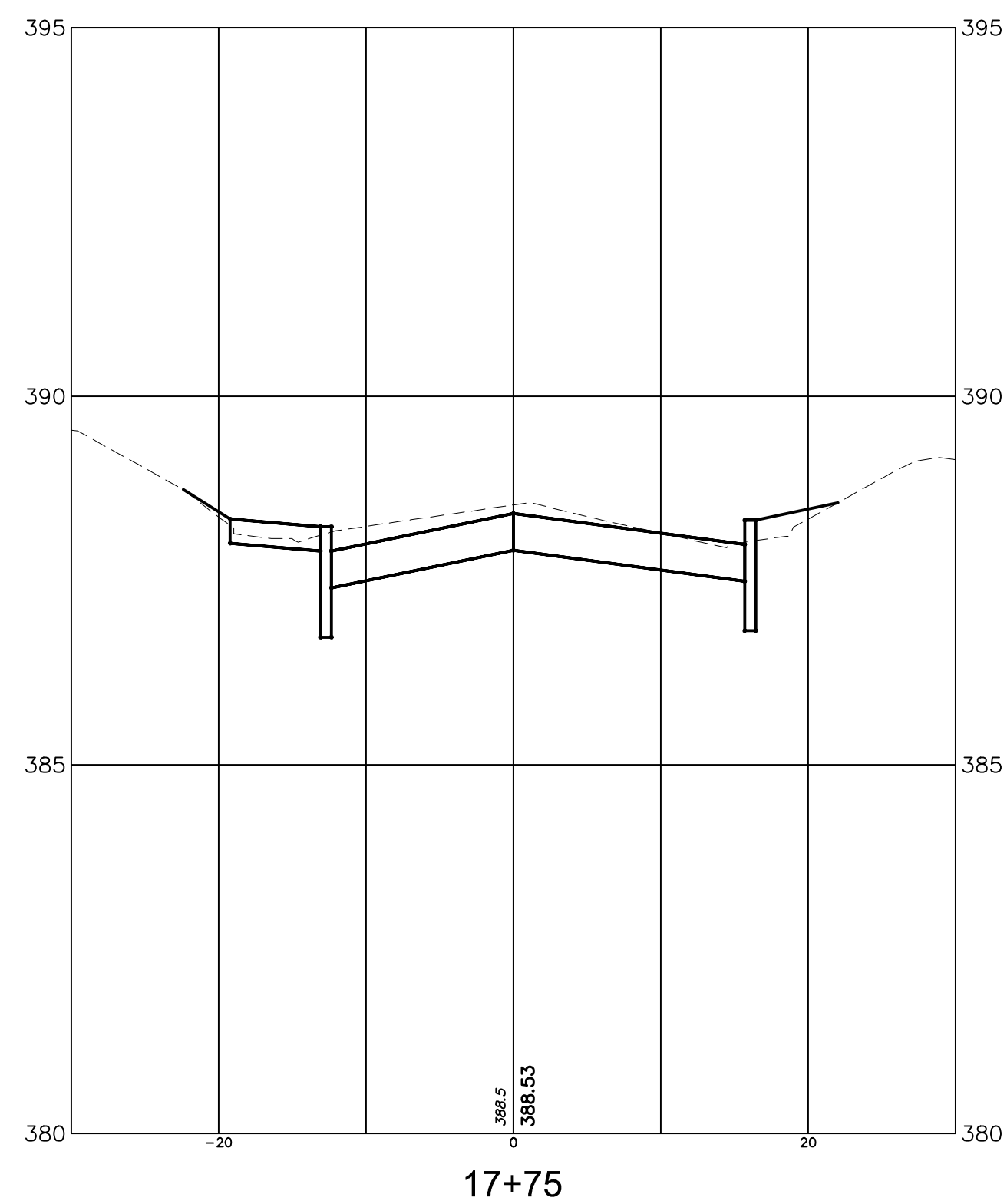
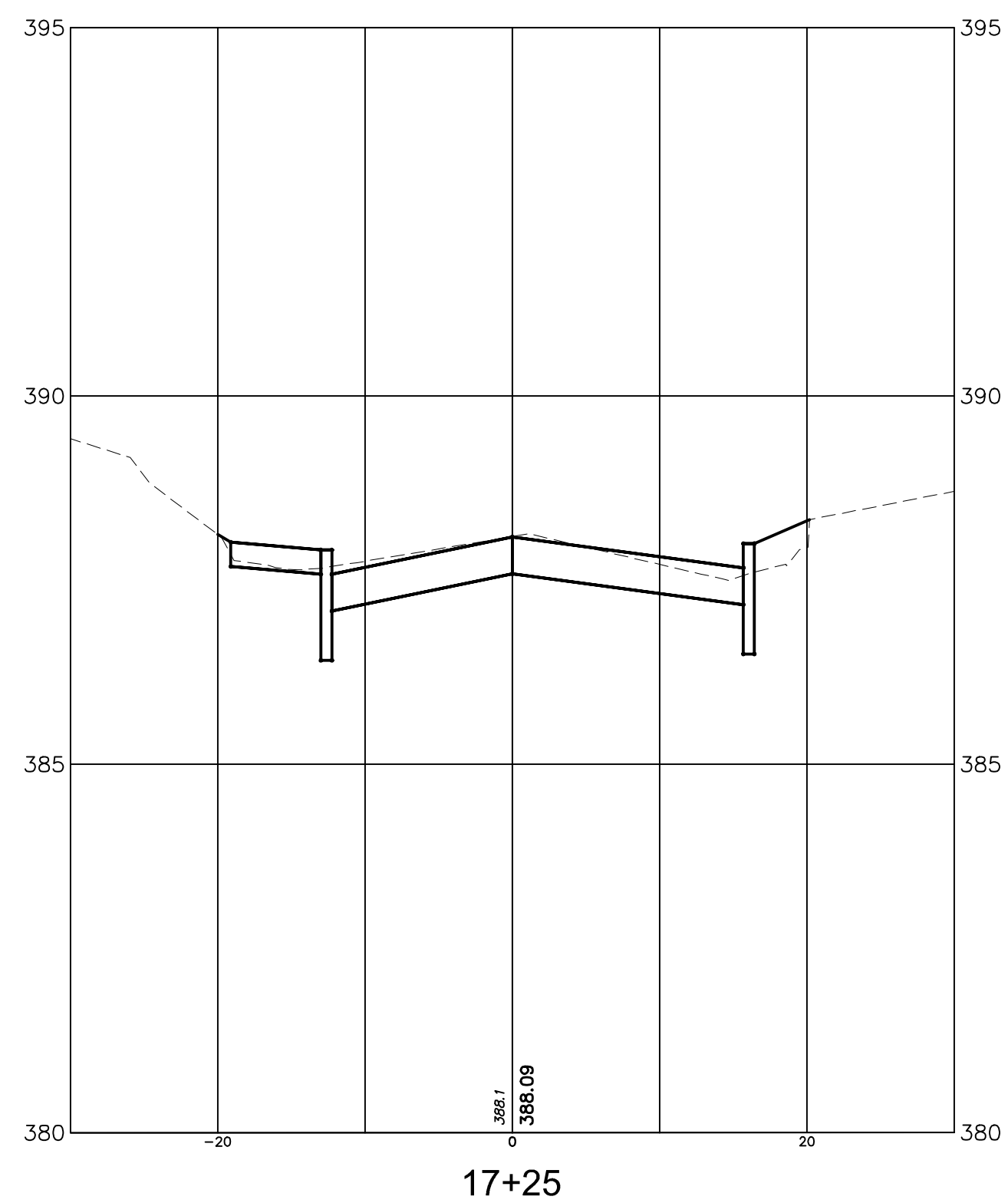
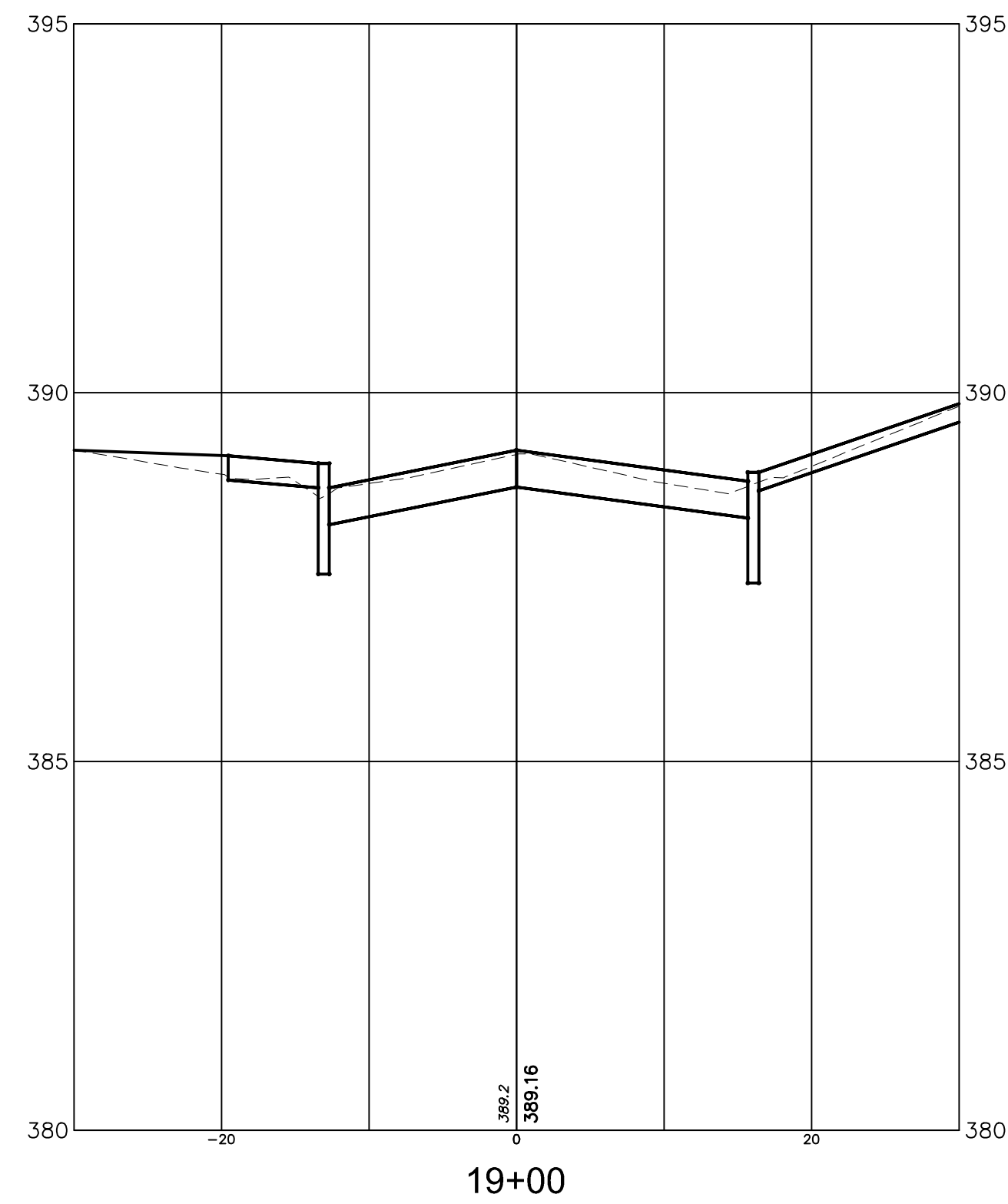
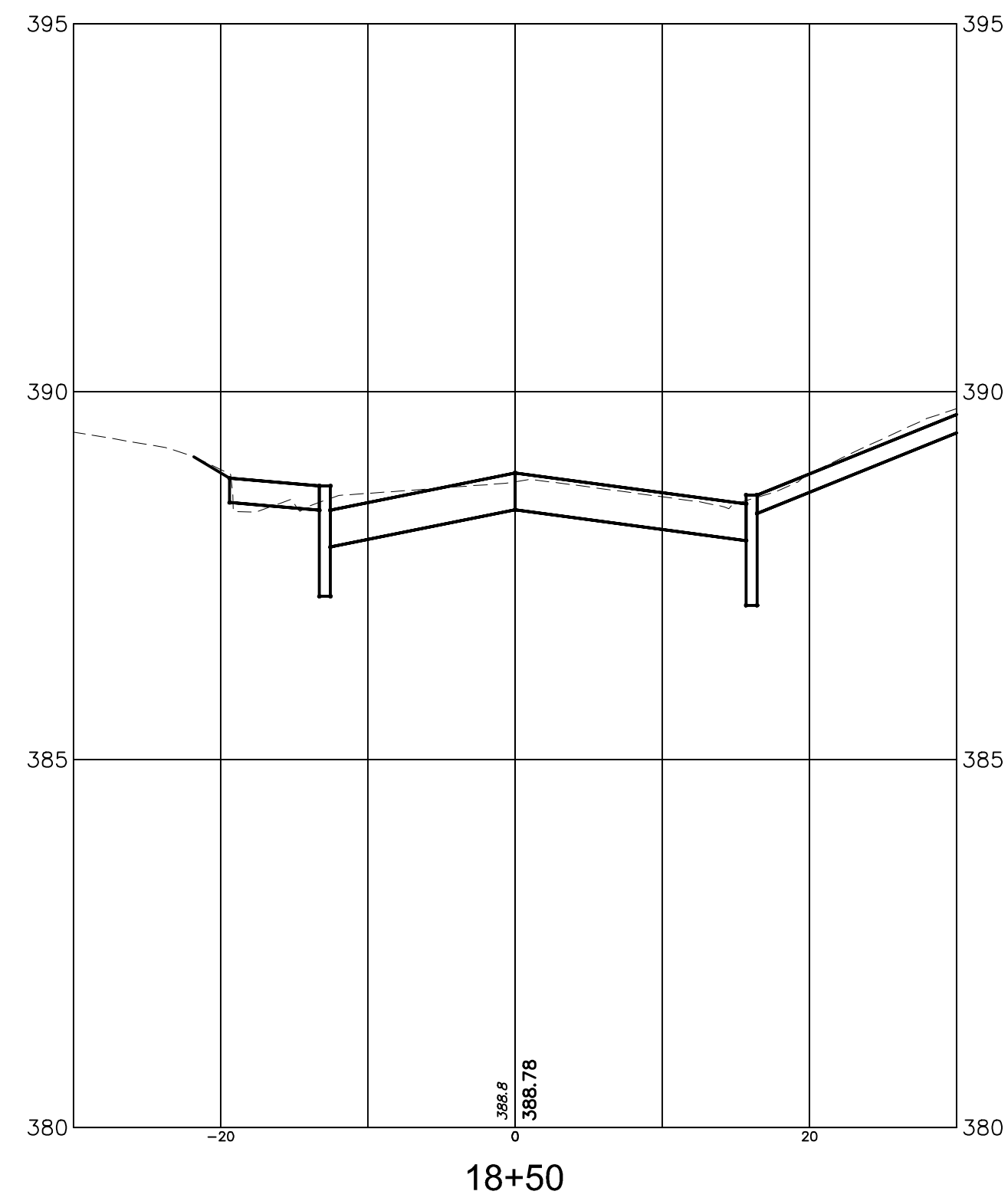
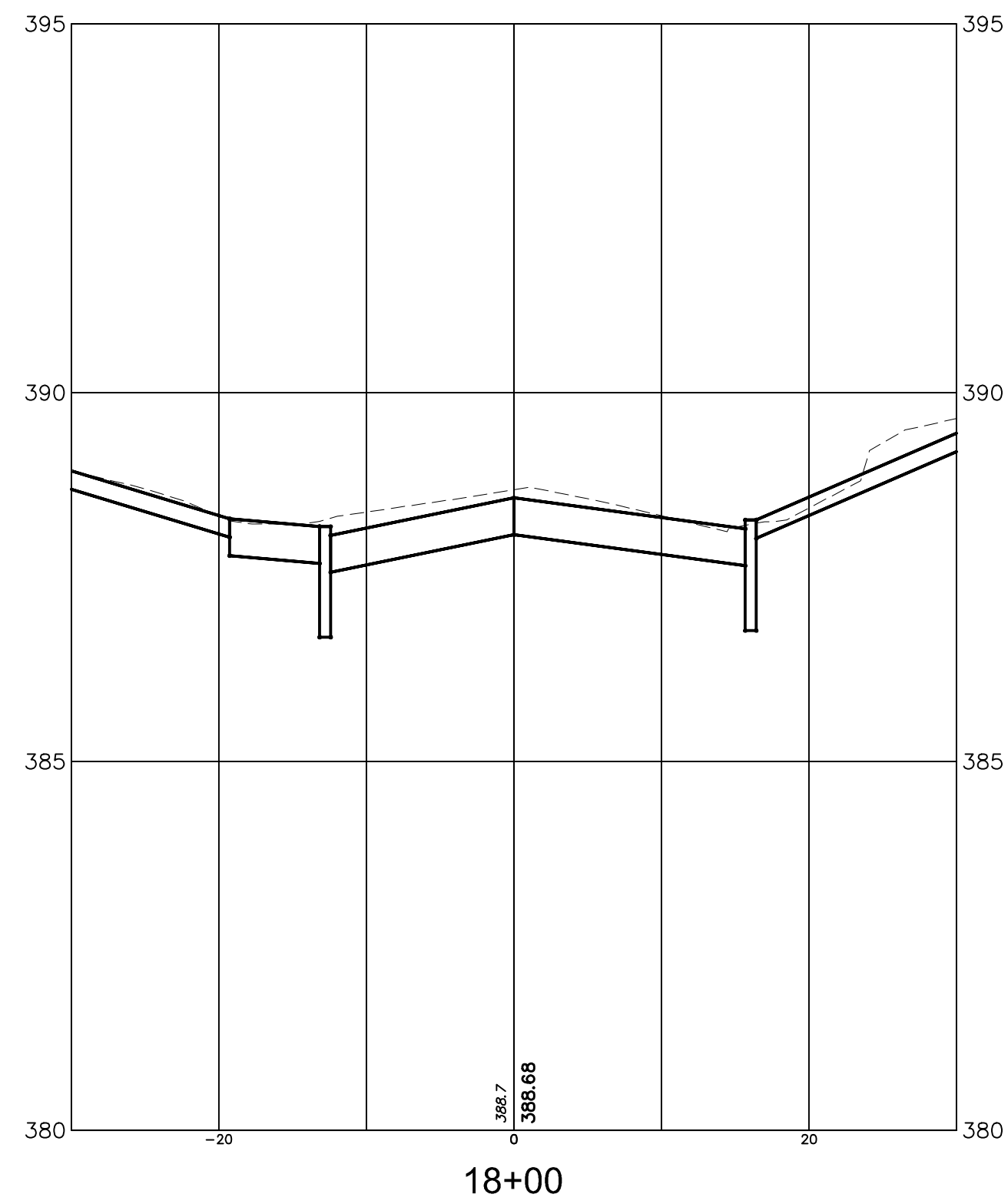
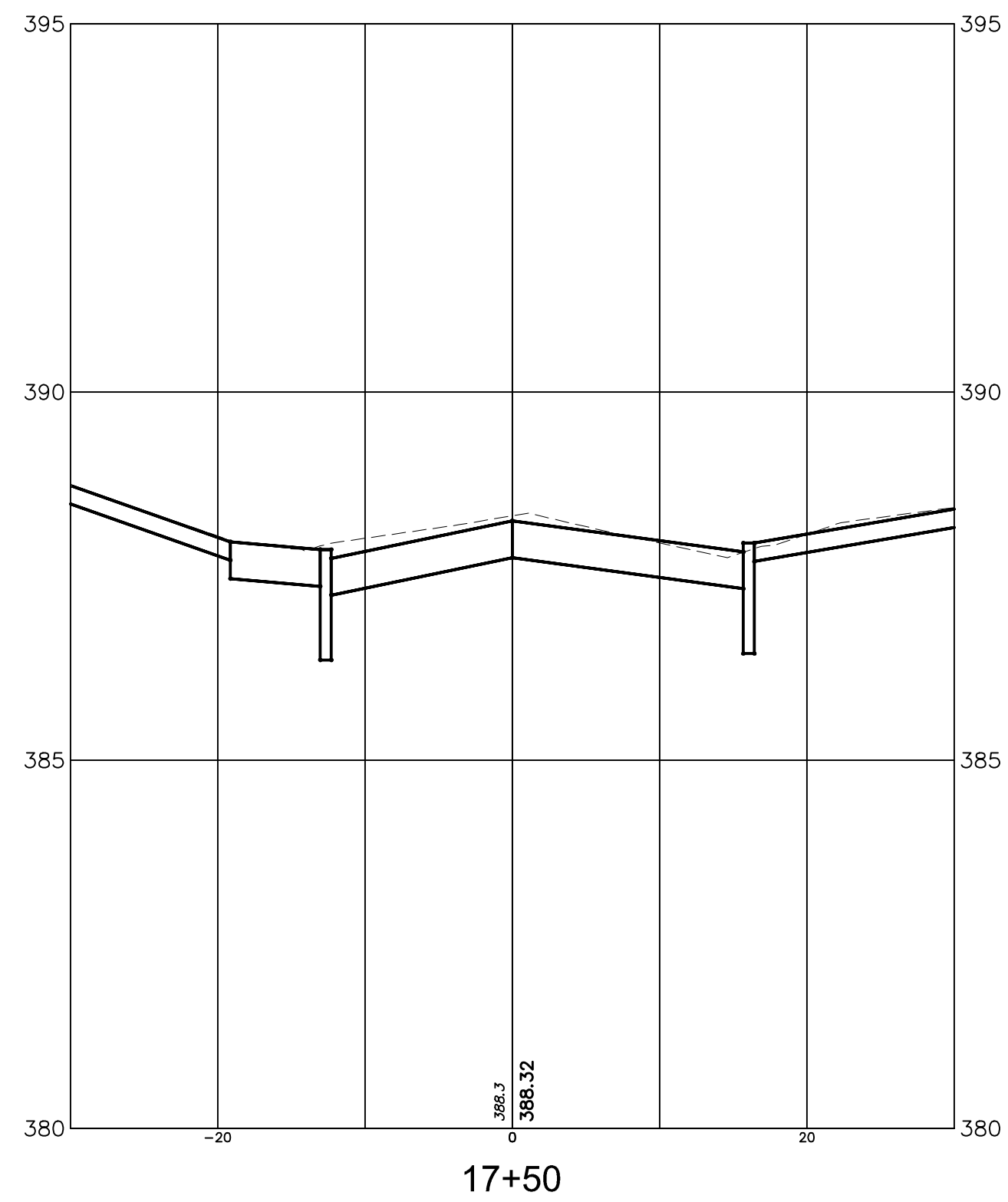
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

23
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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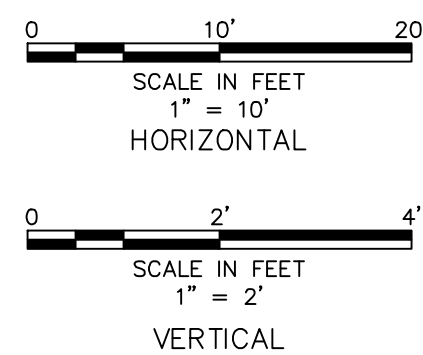
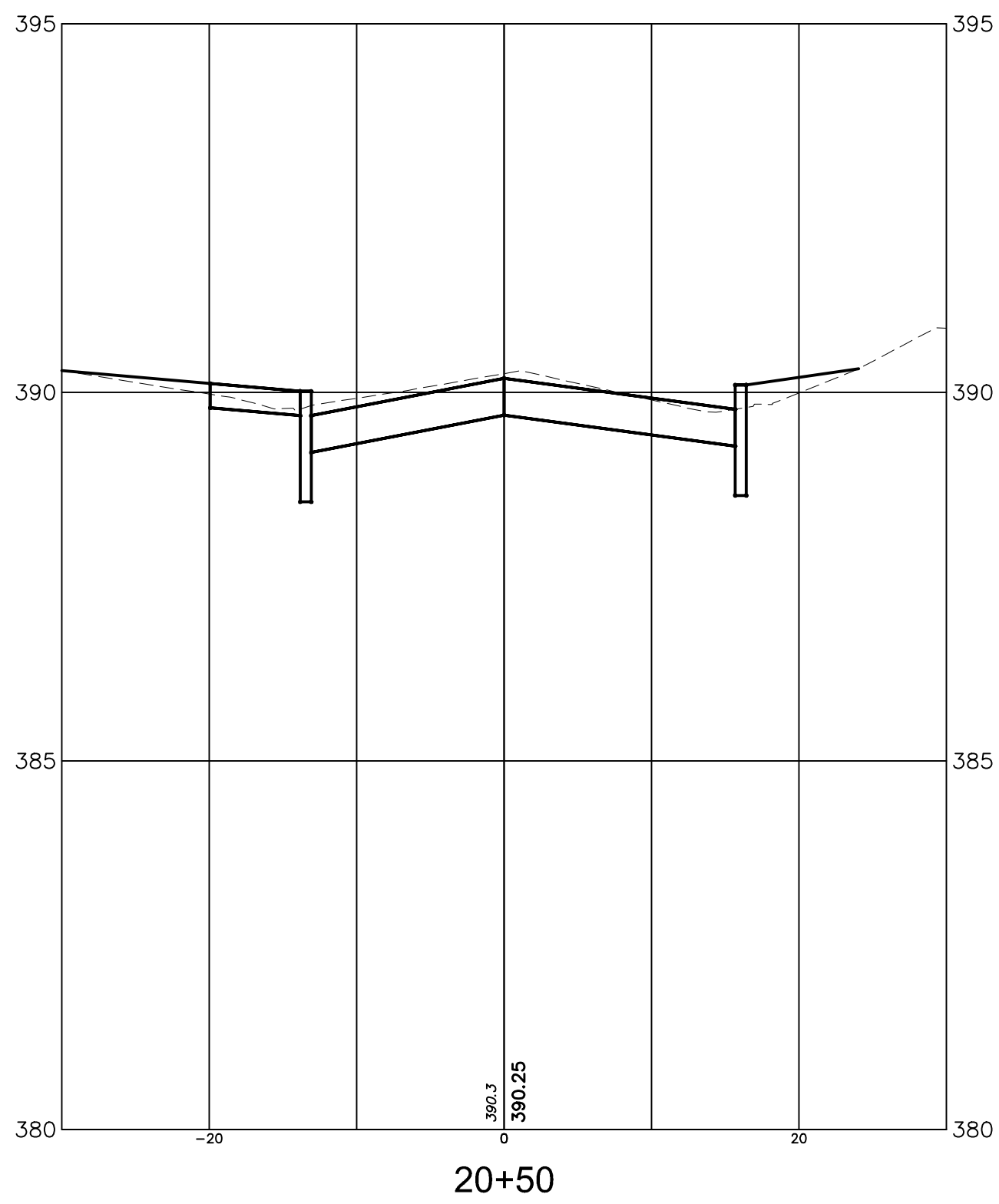
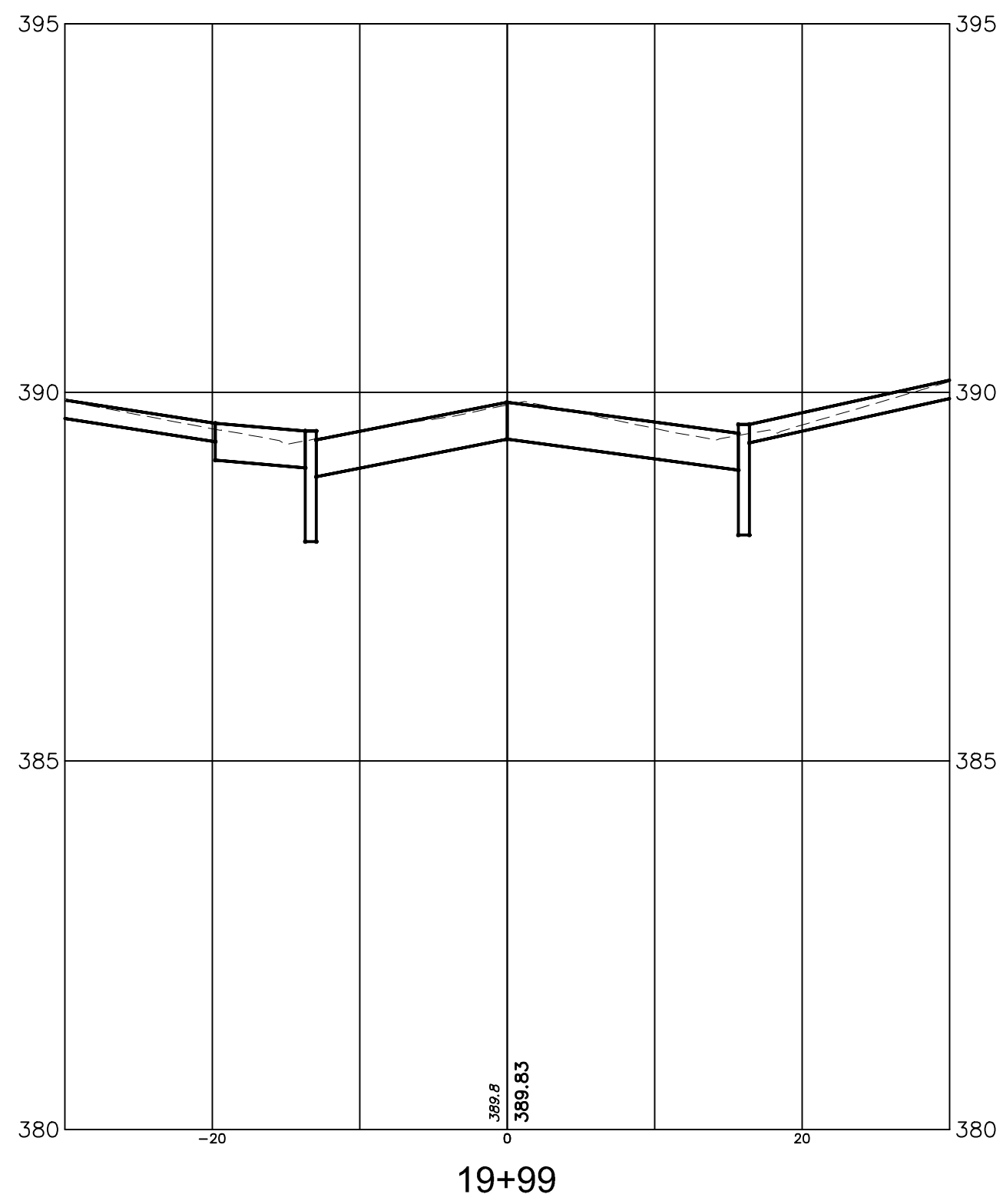
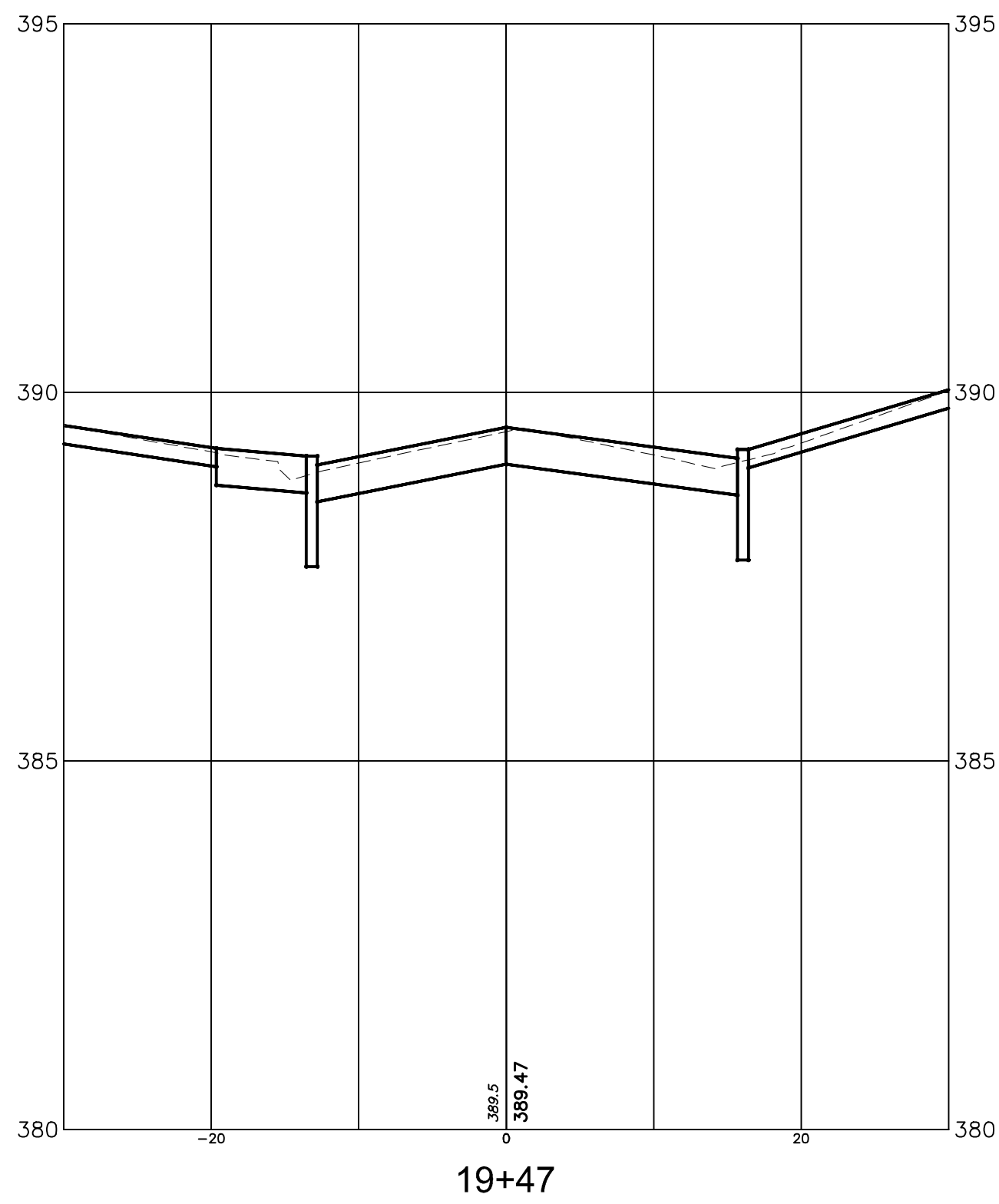
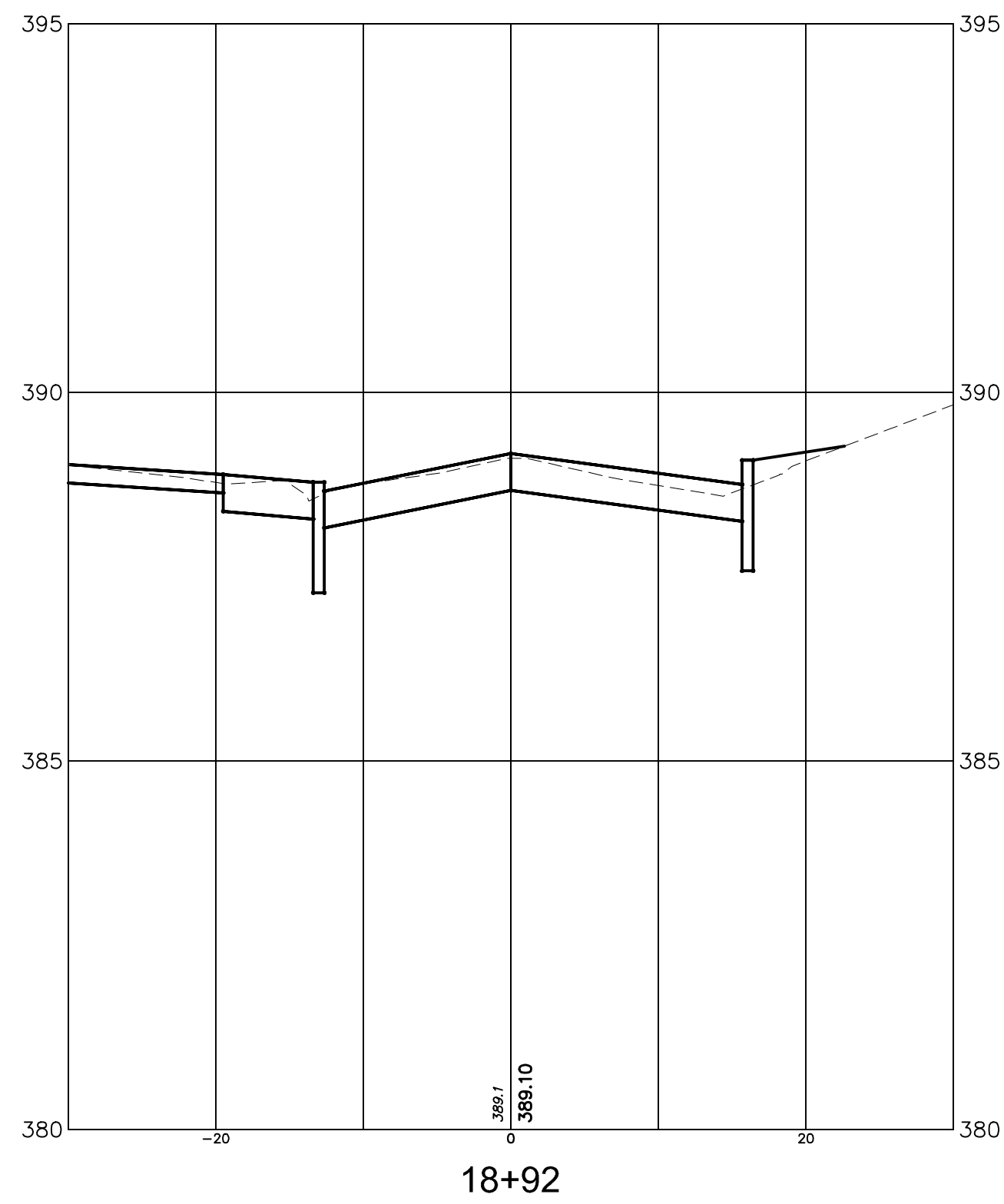
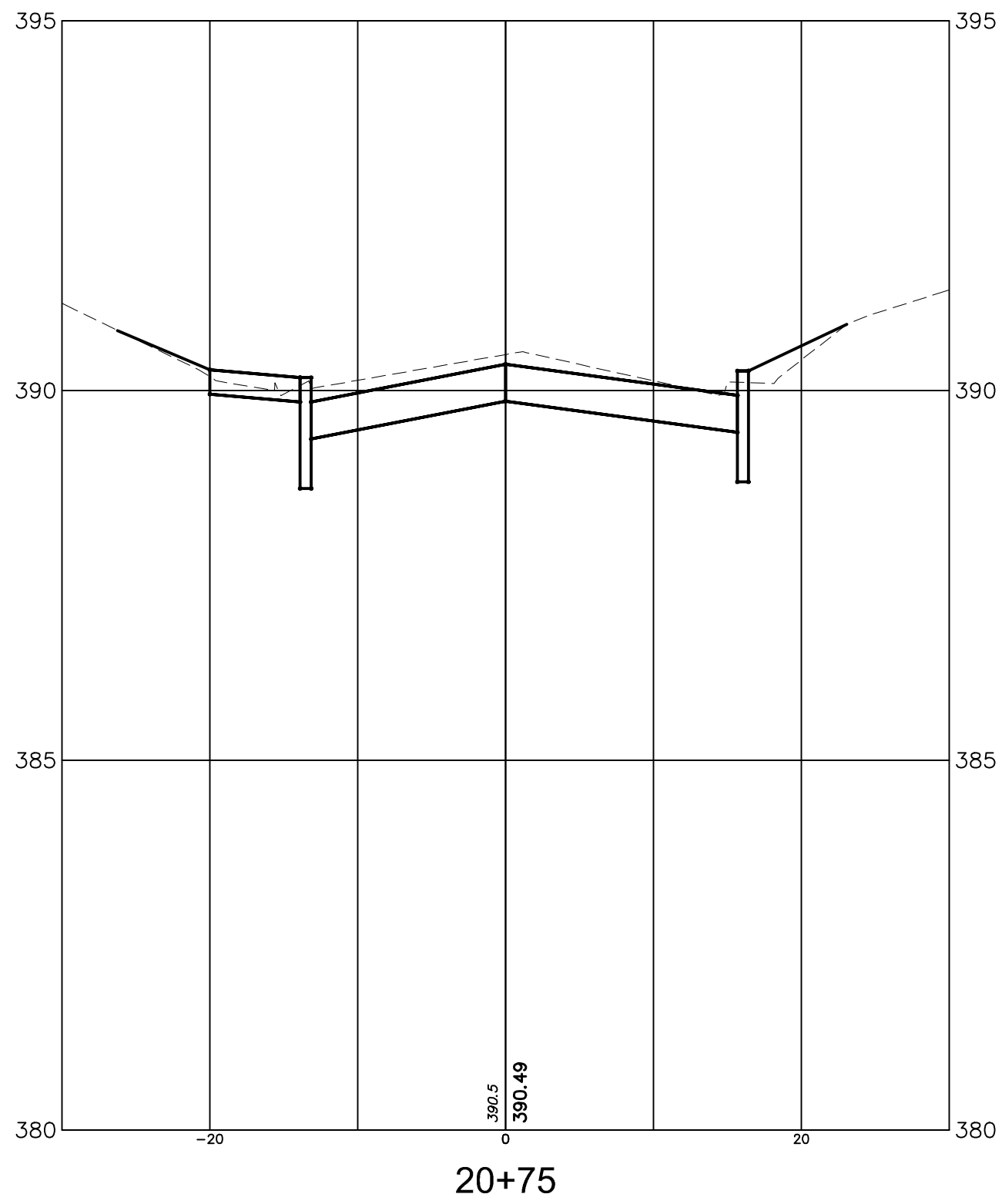
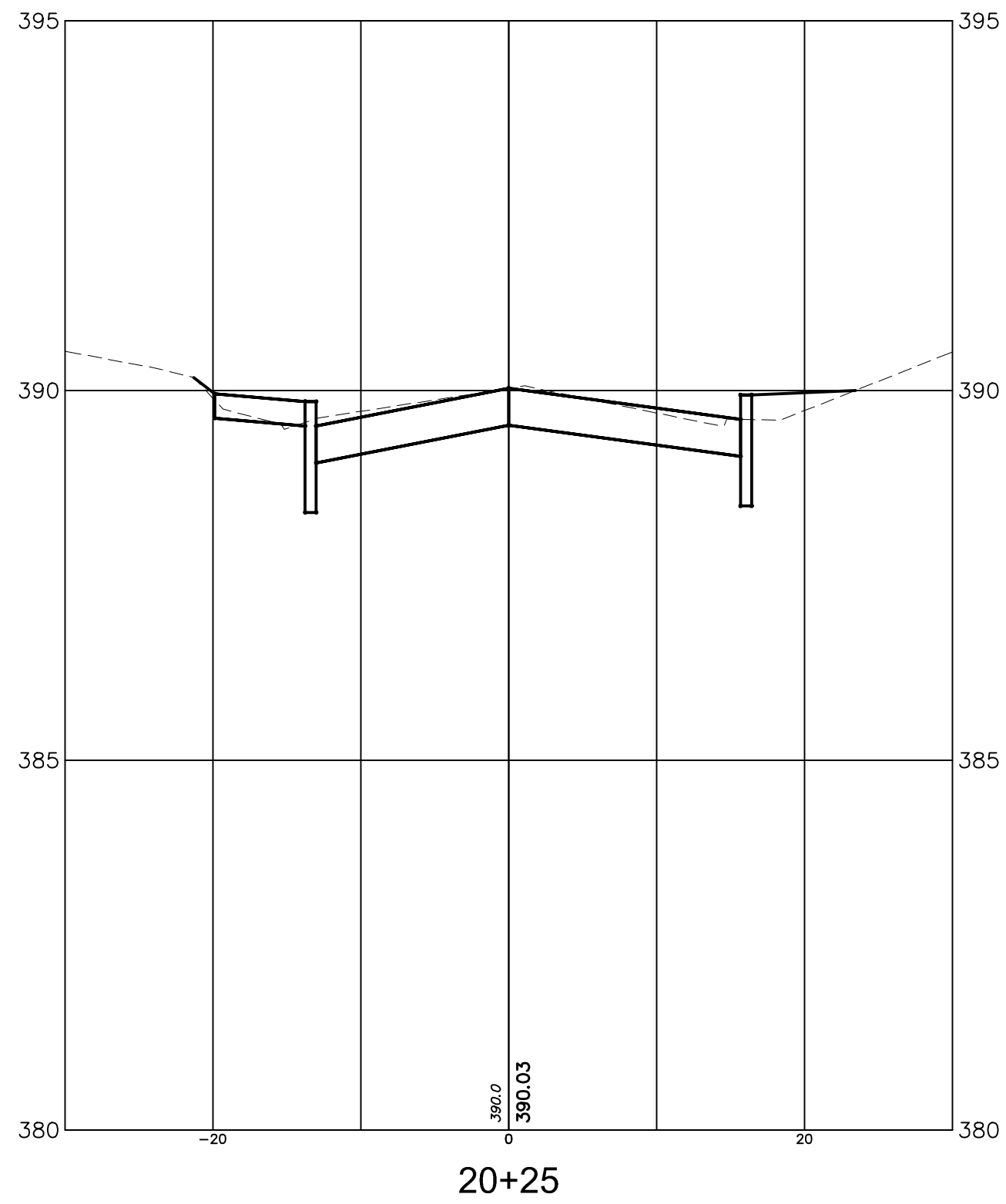
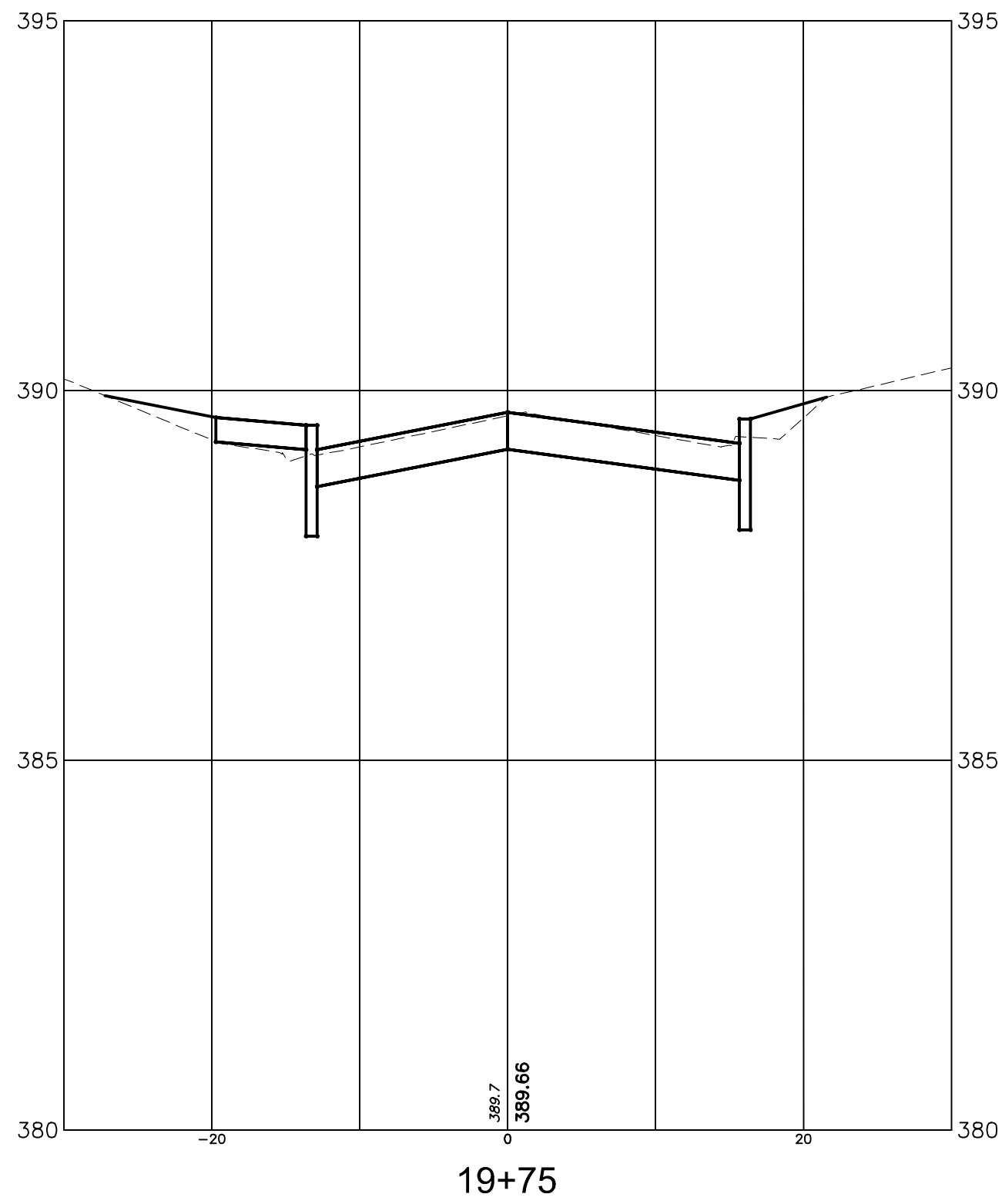
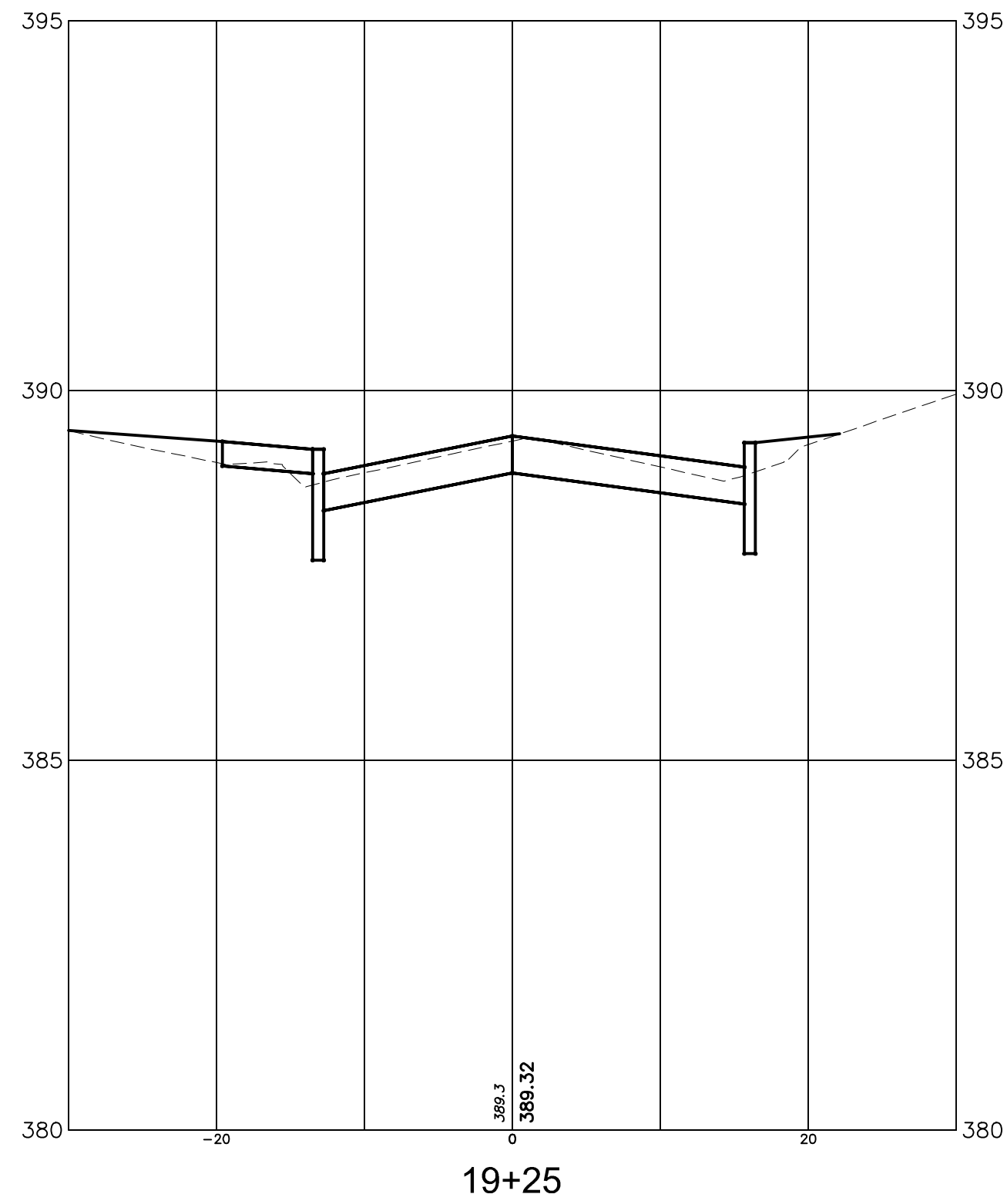
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

24
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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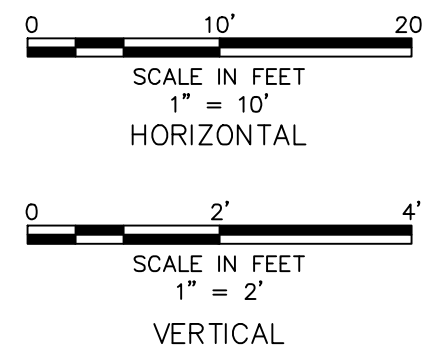
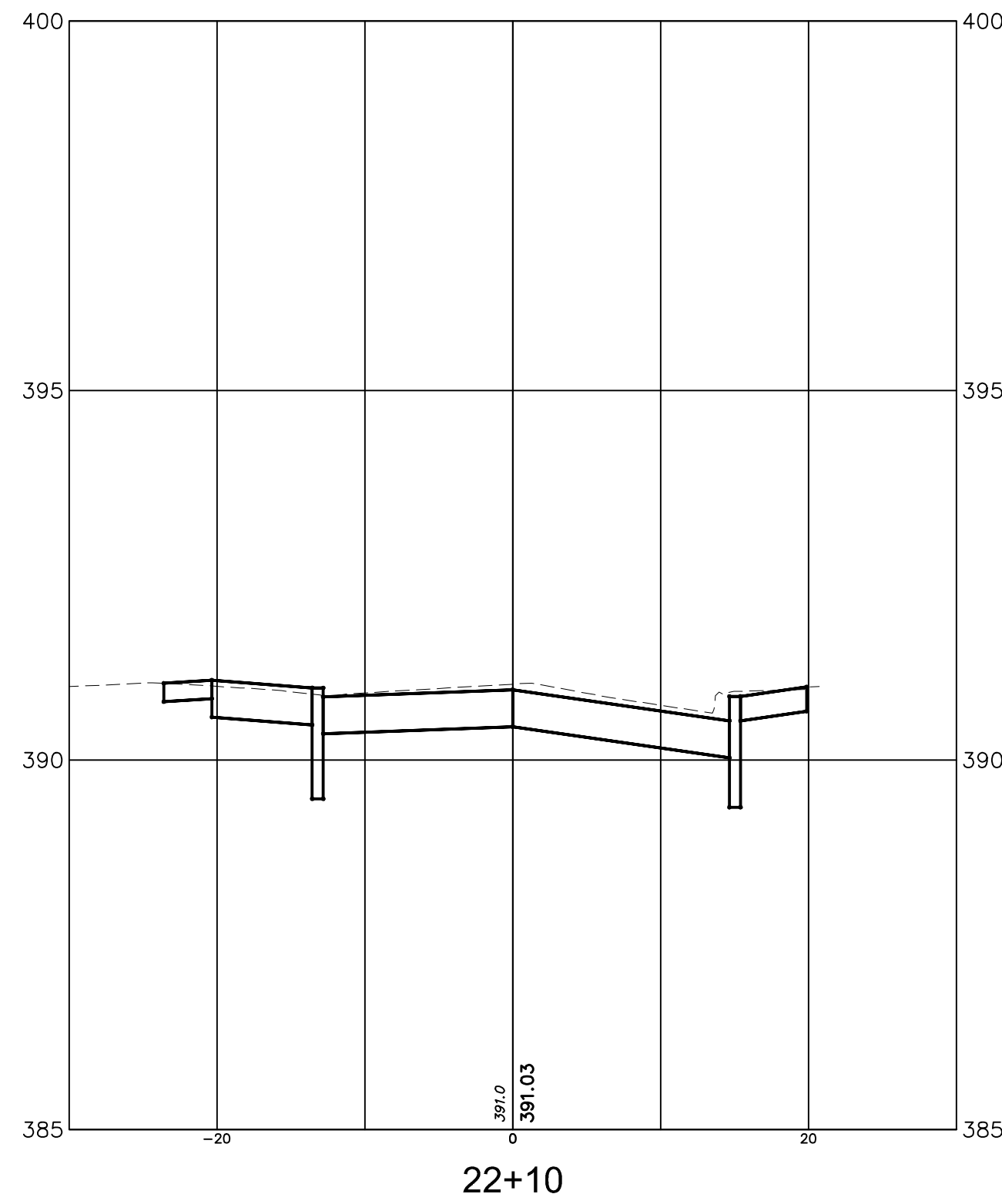
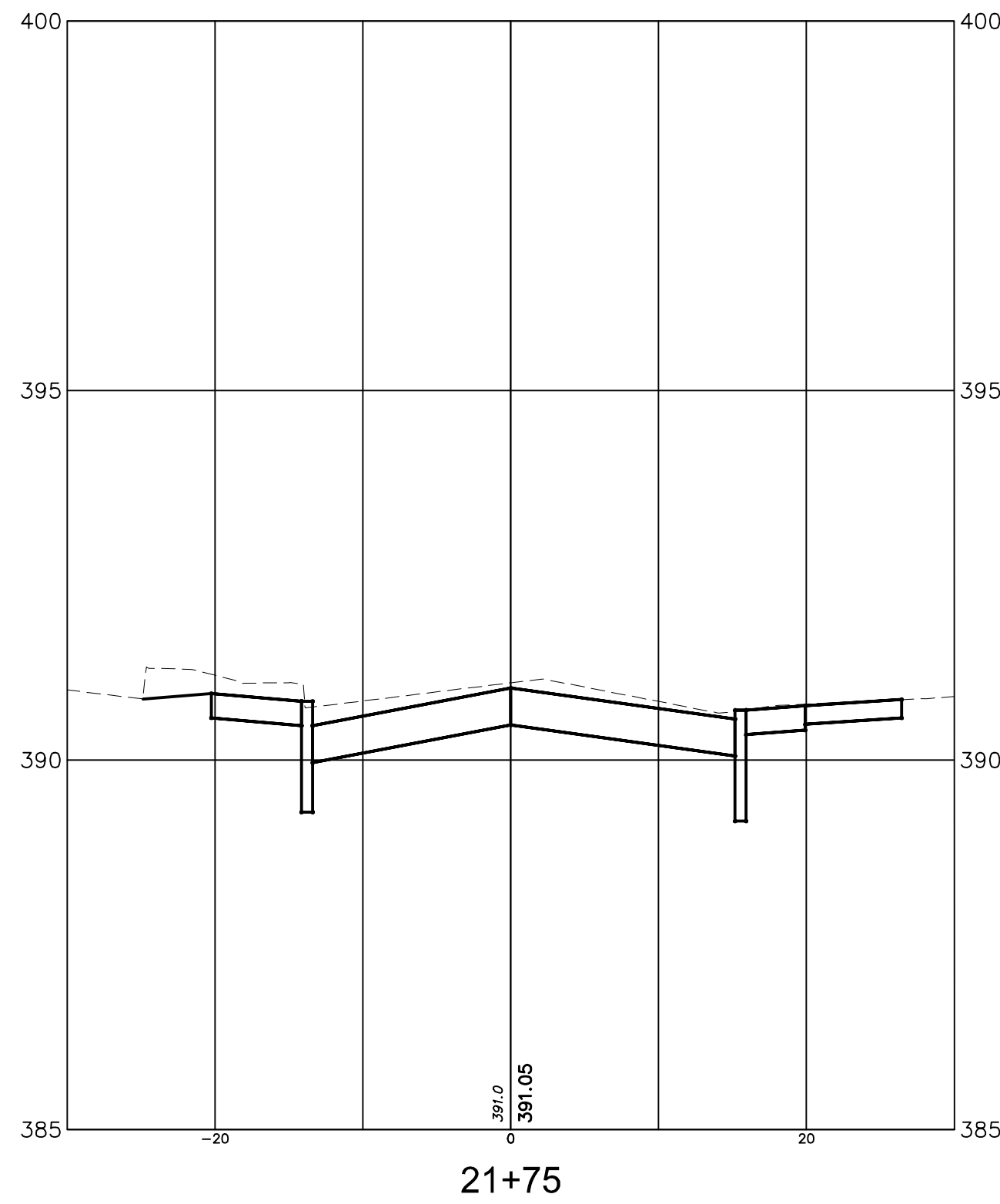
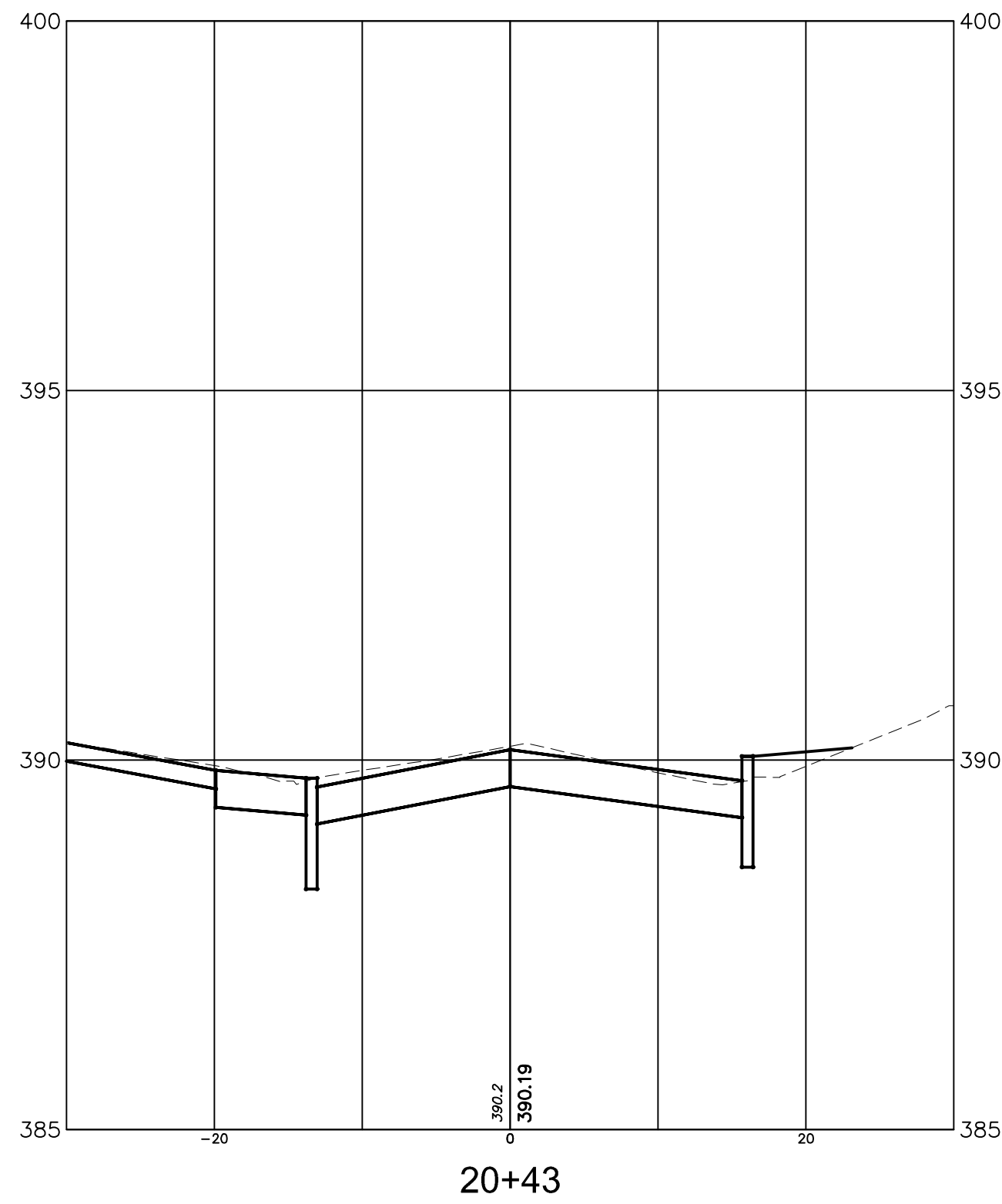
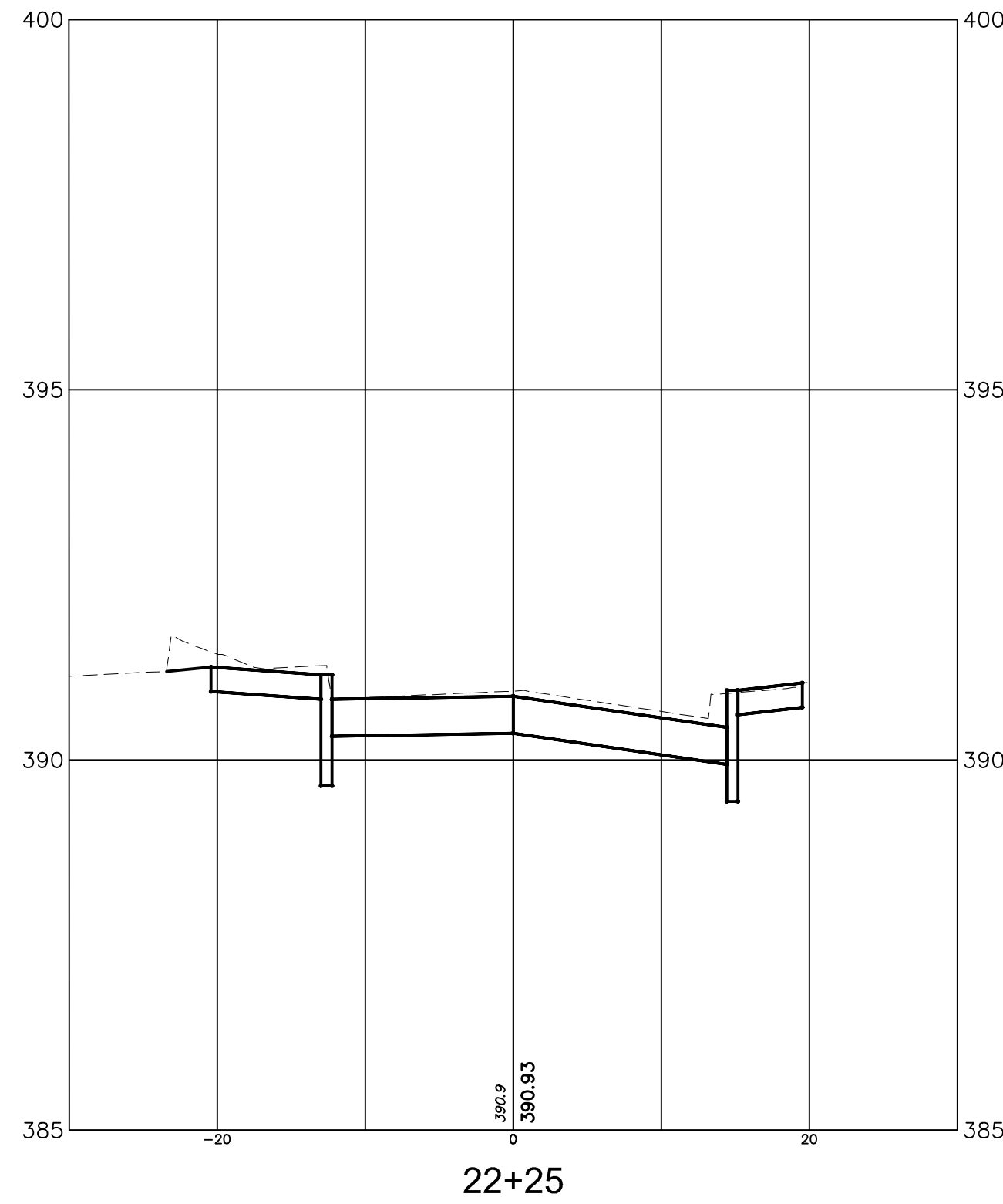
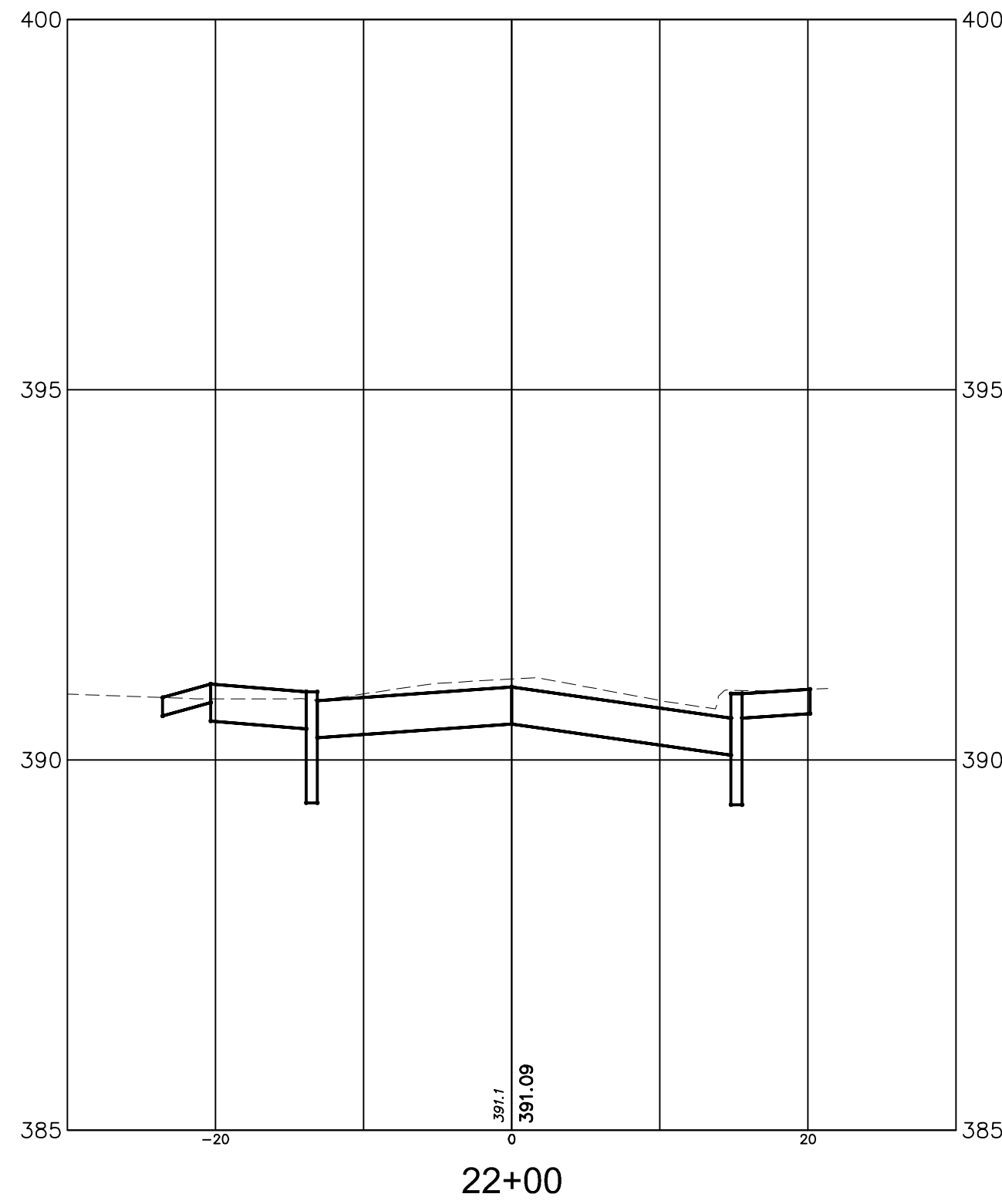
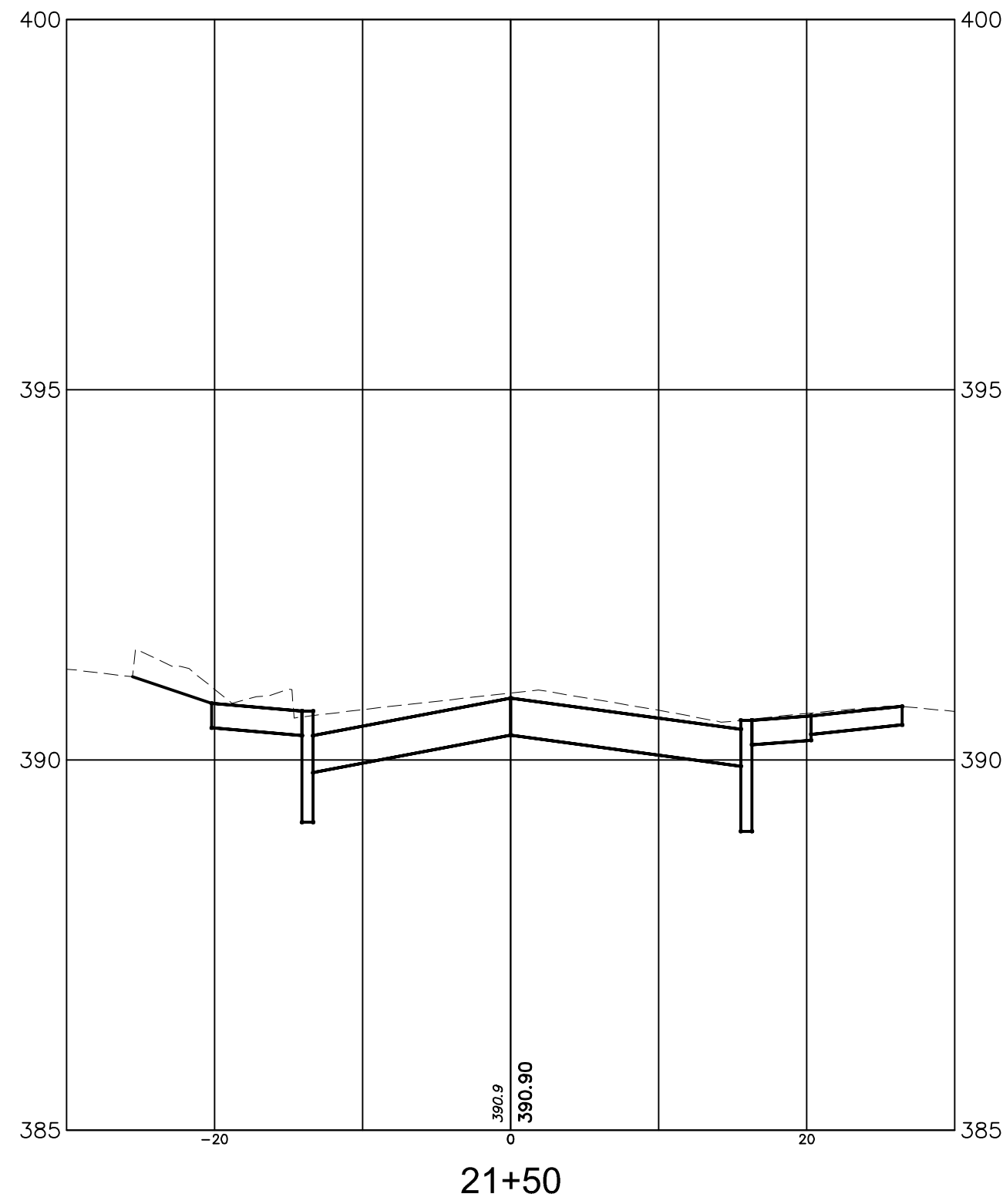
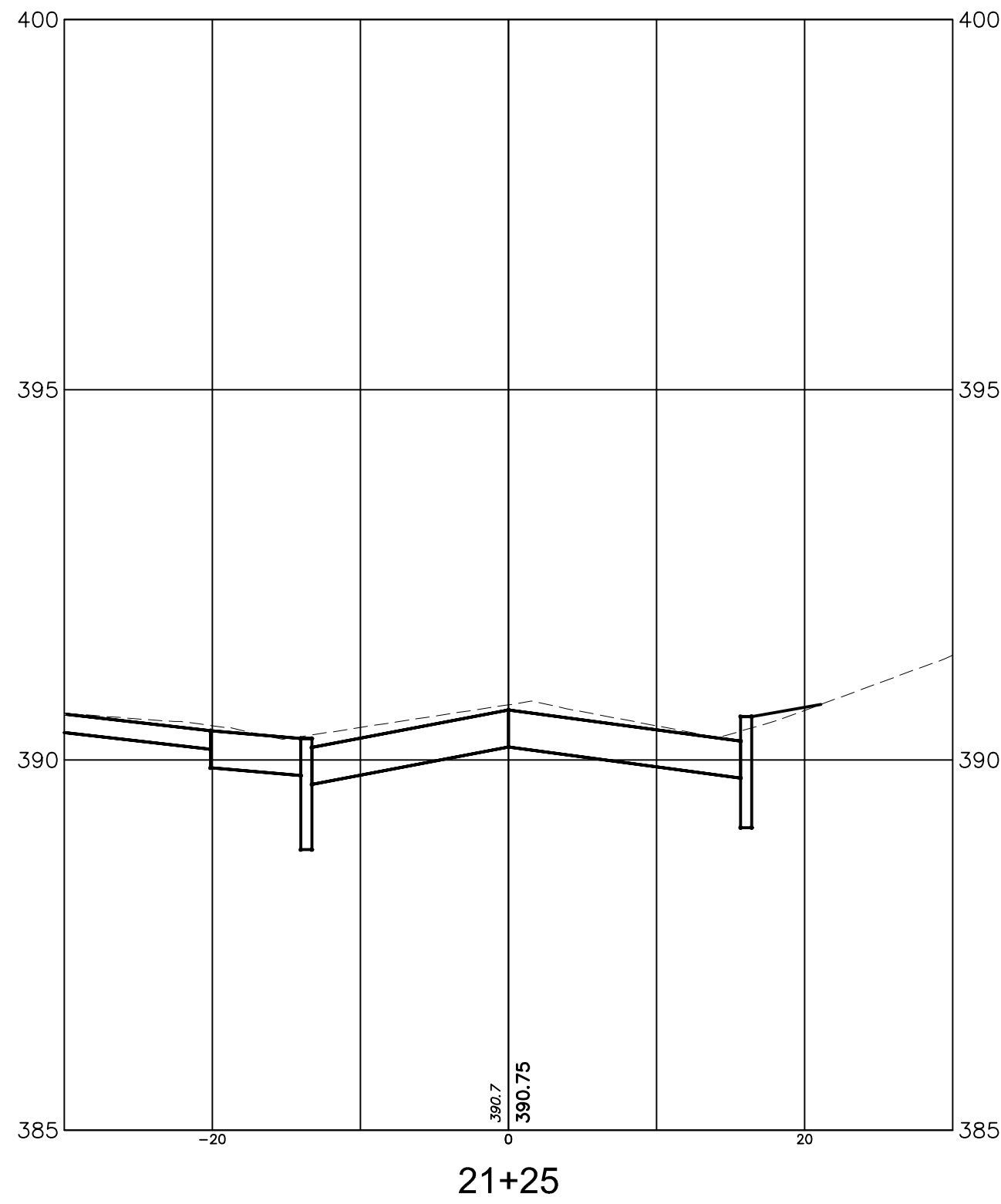
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

25
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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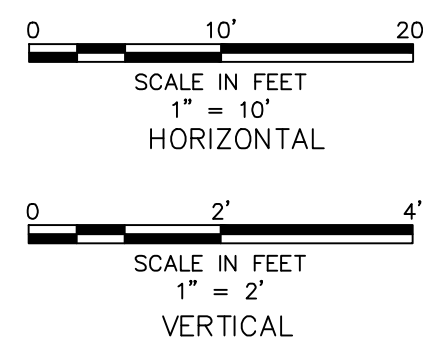
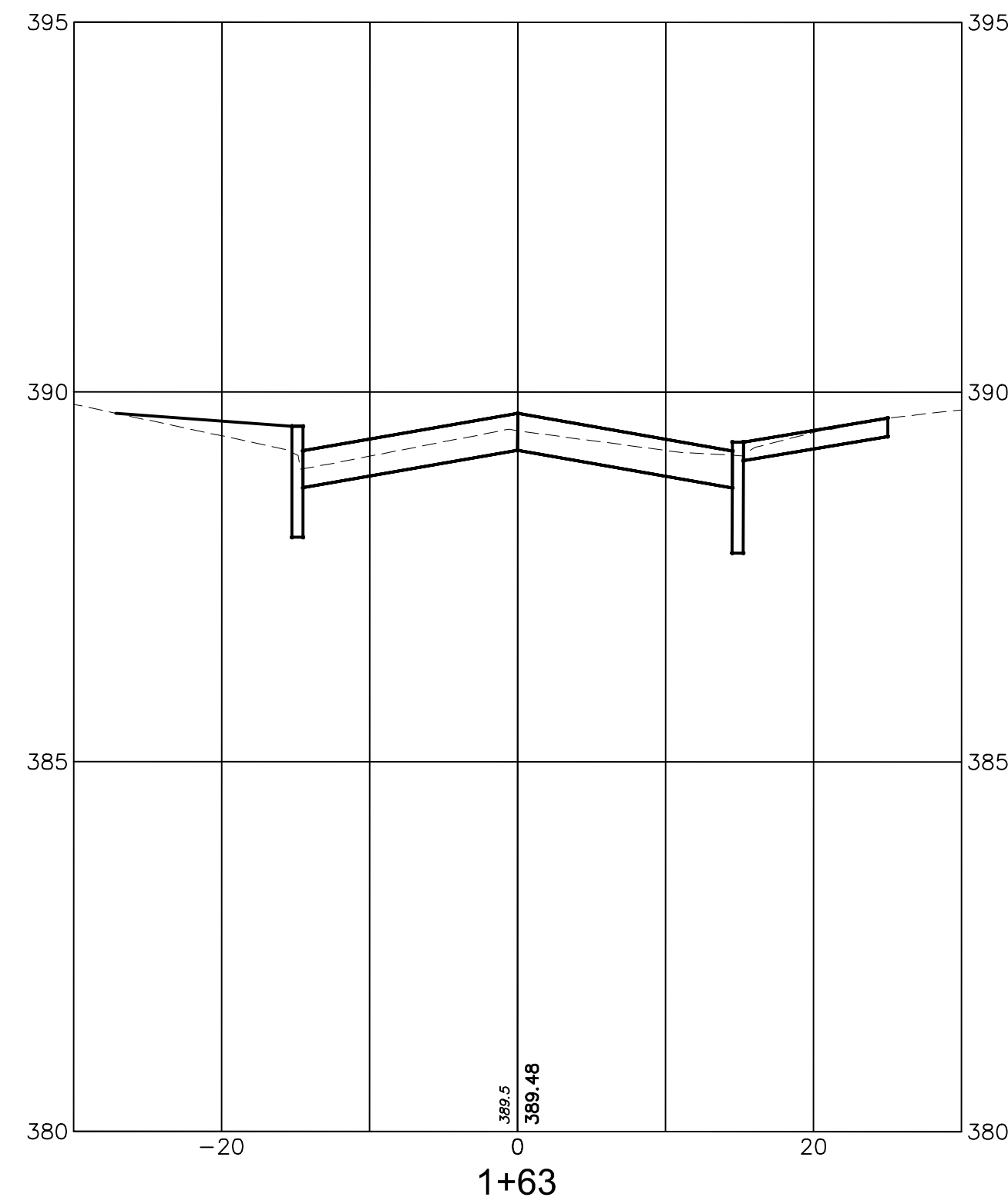
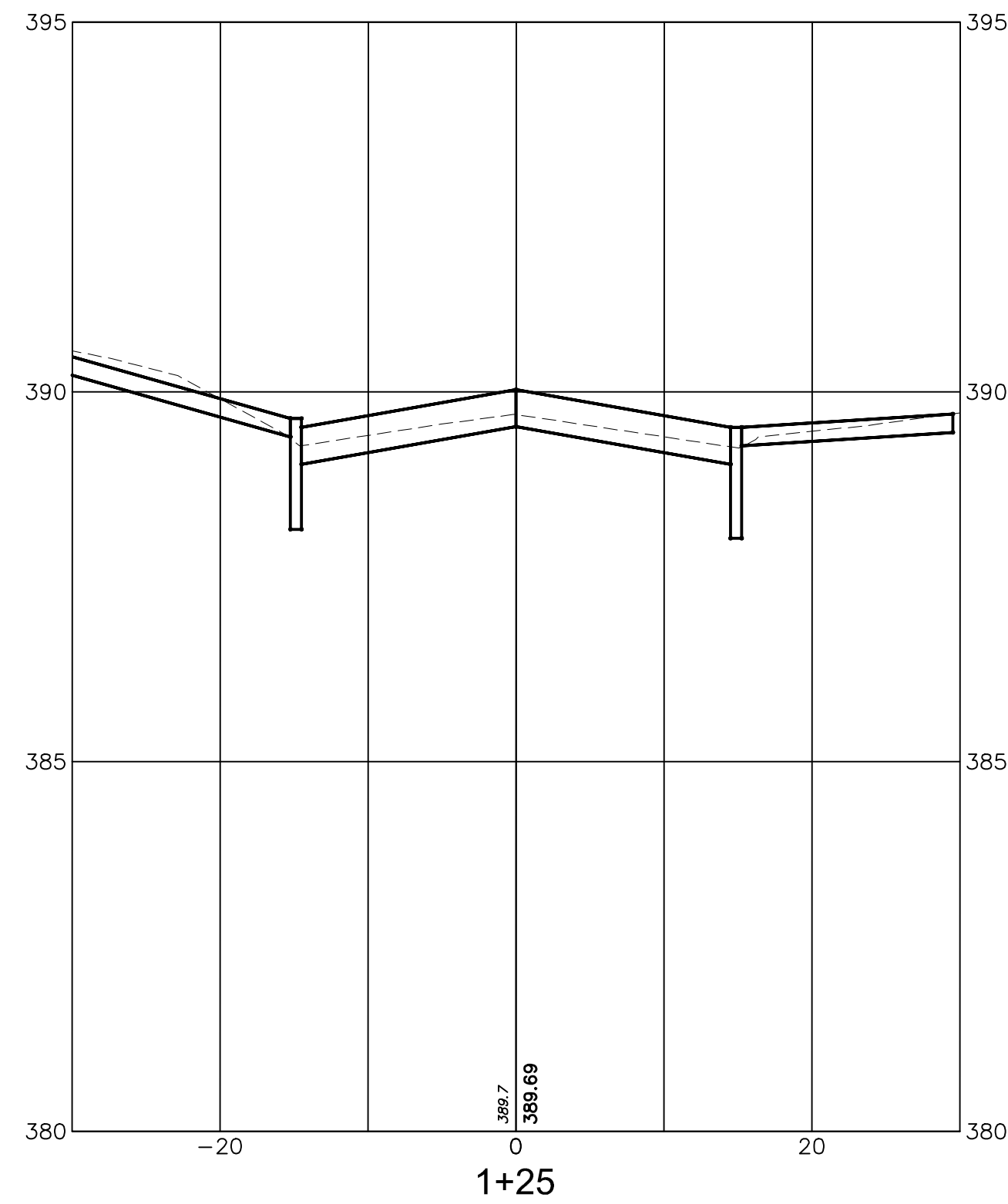
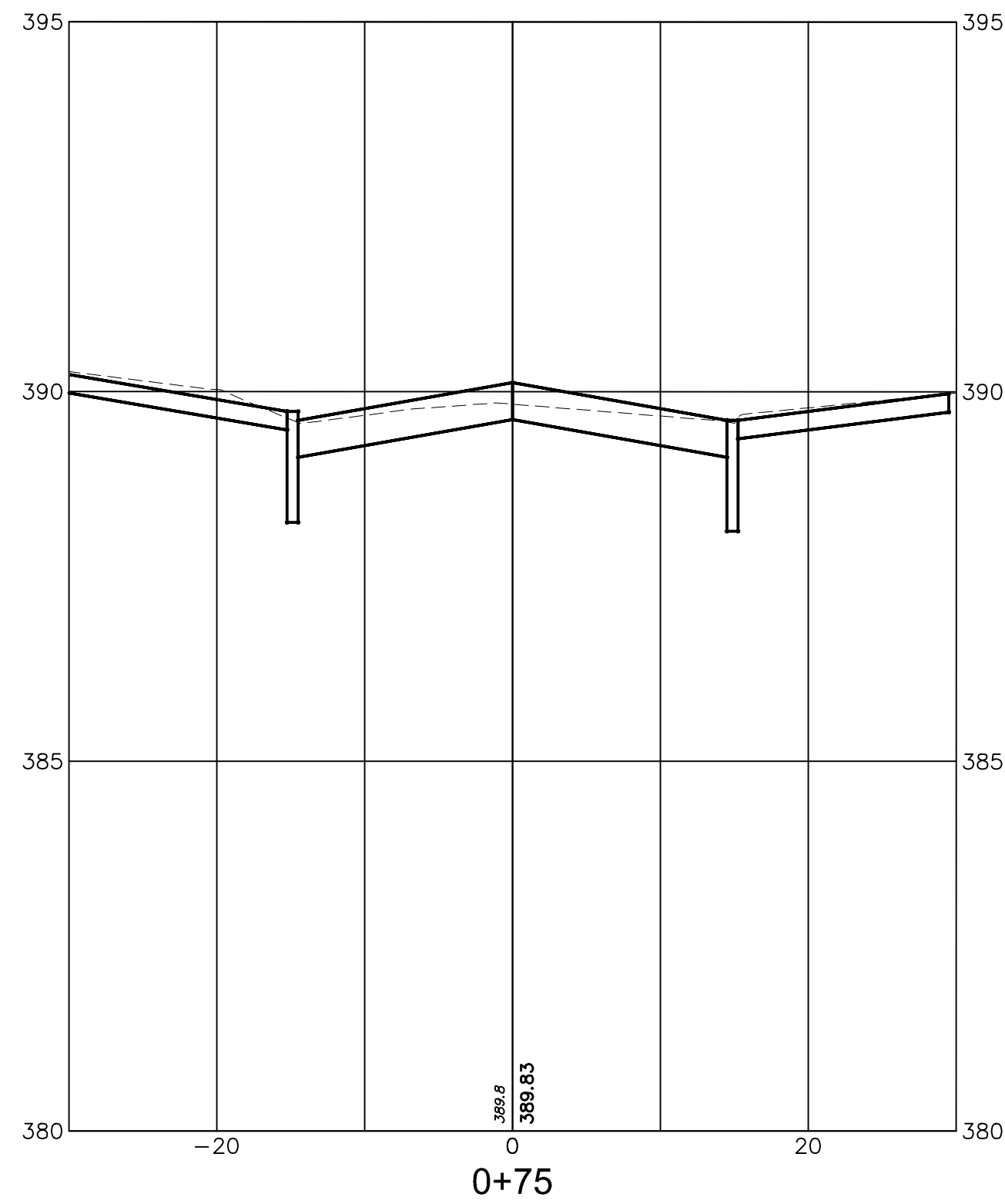
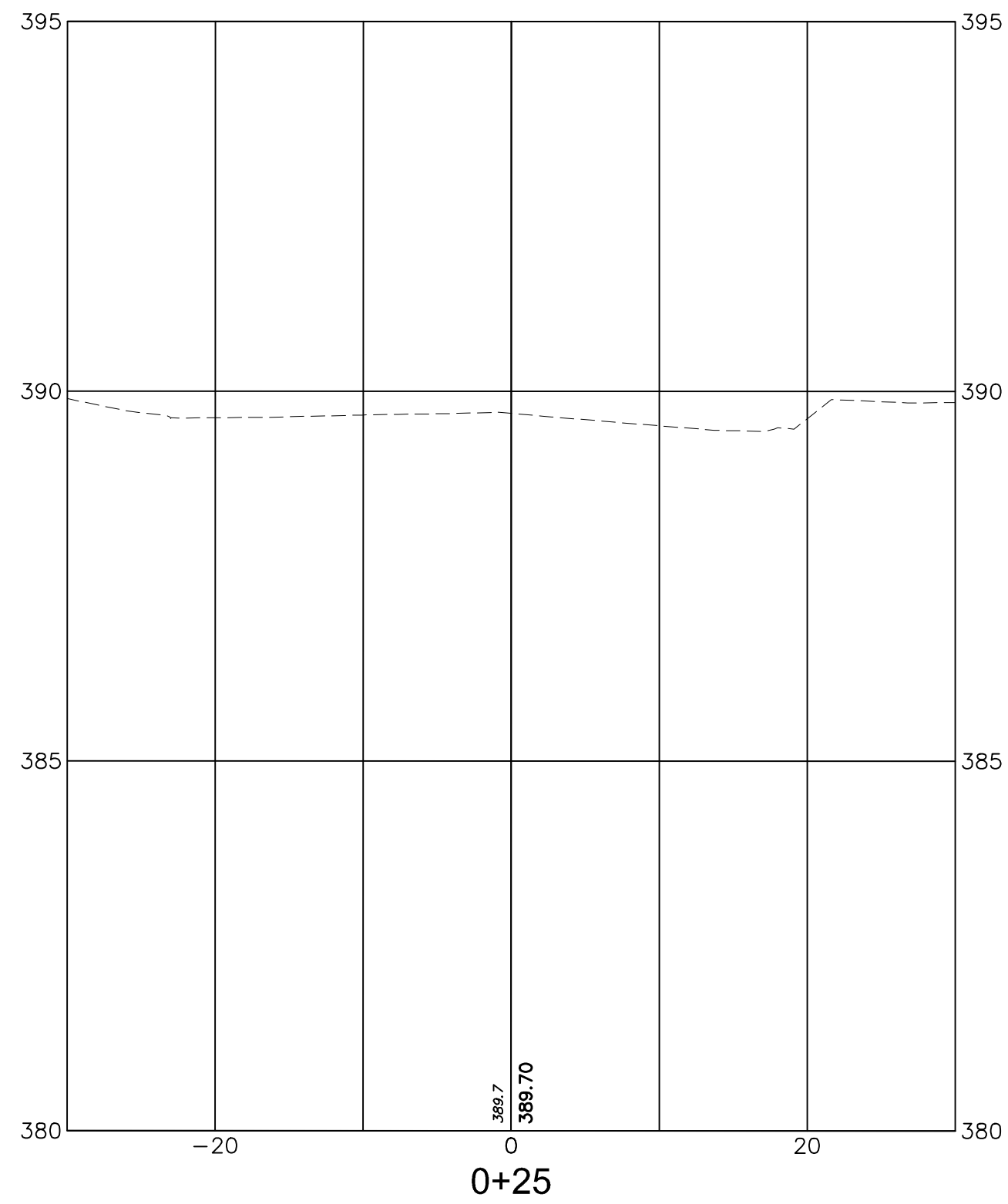
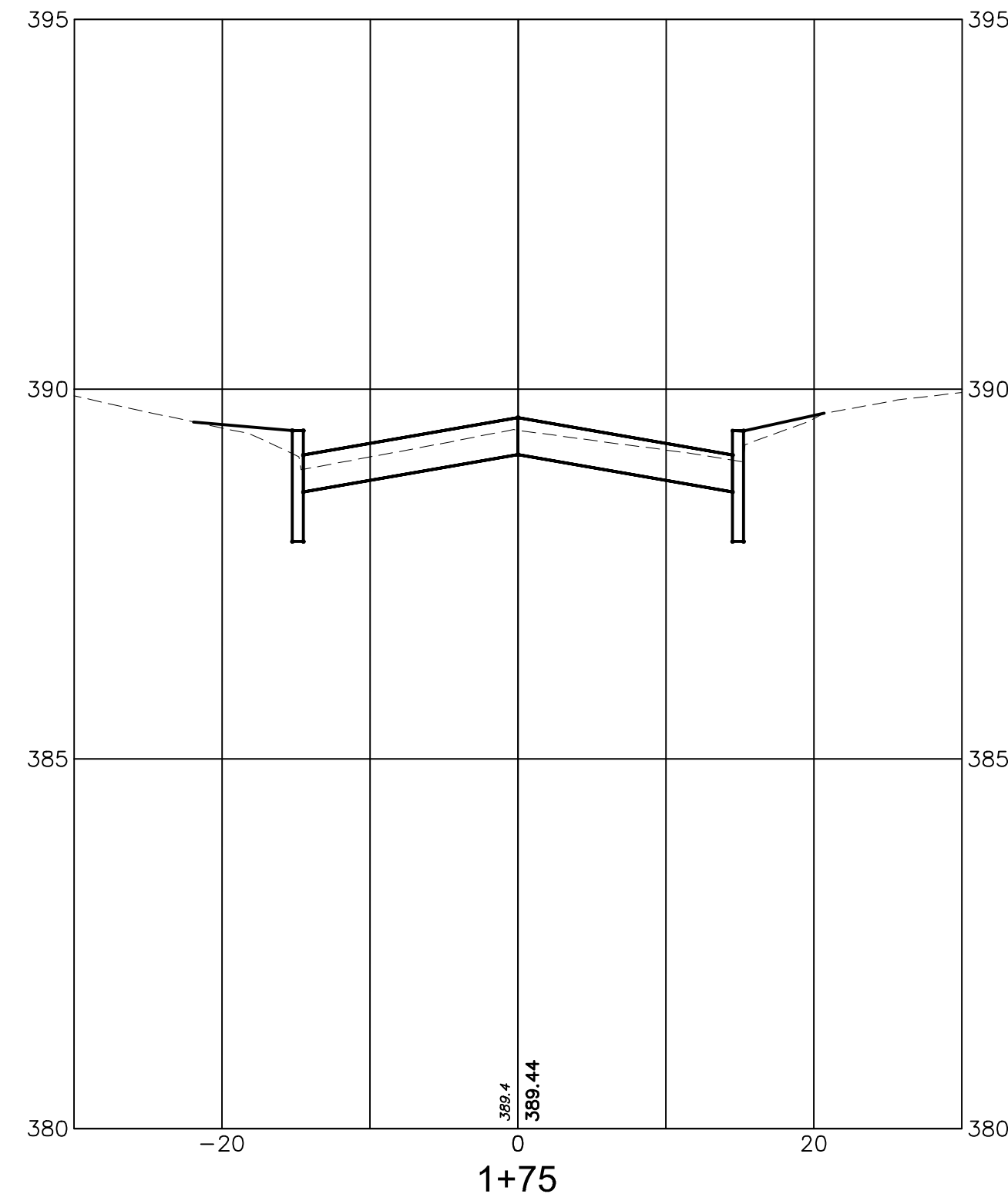
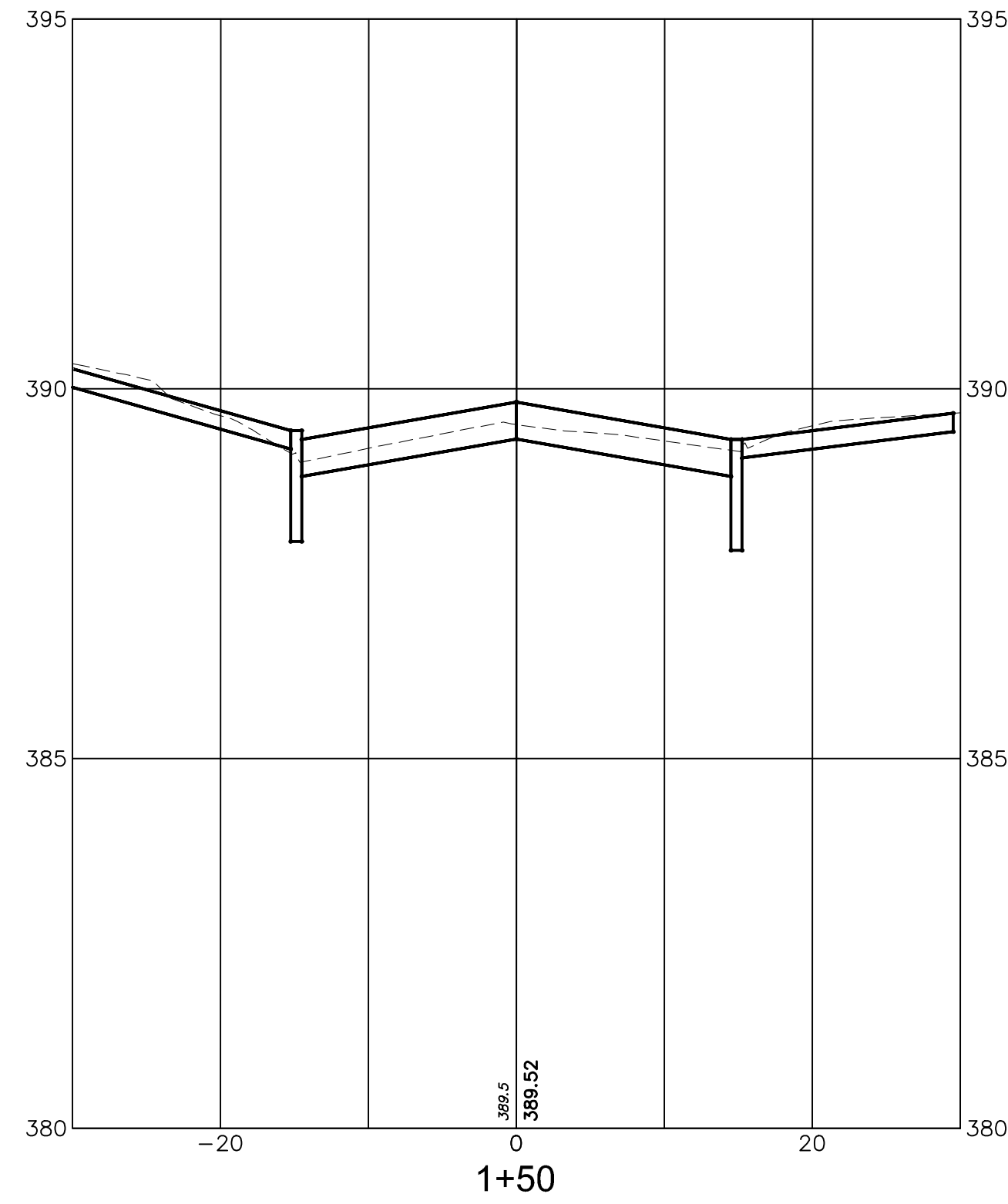
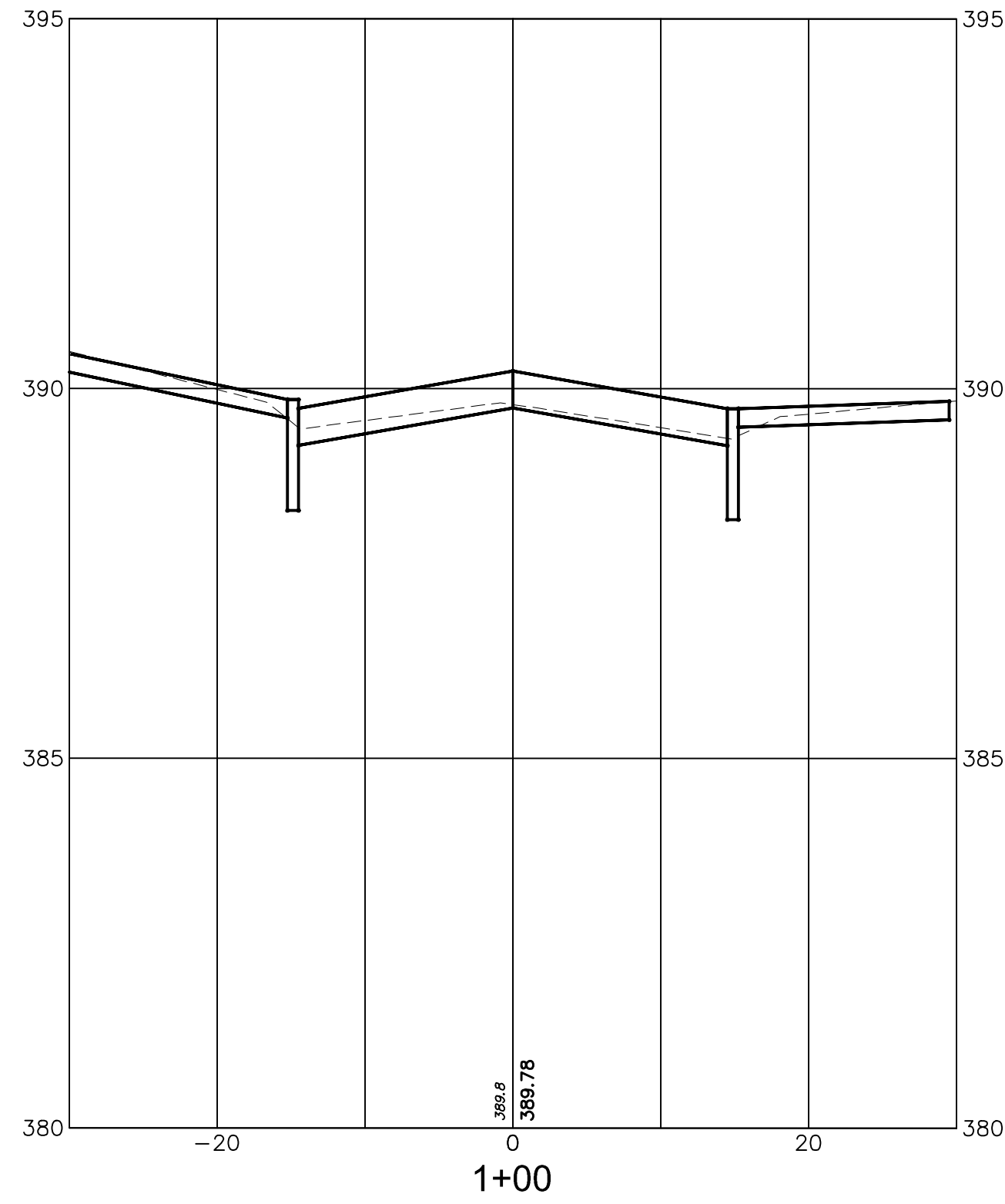
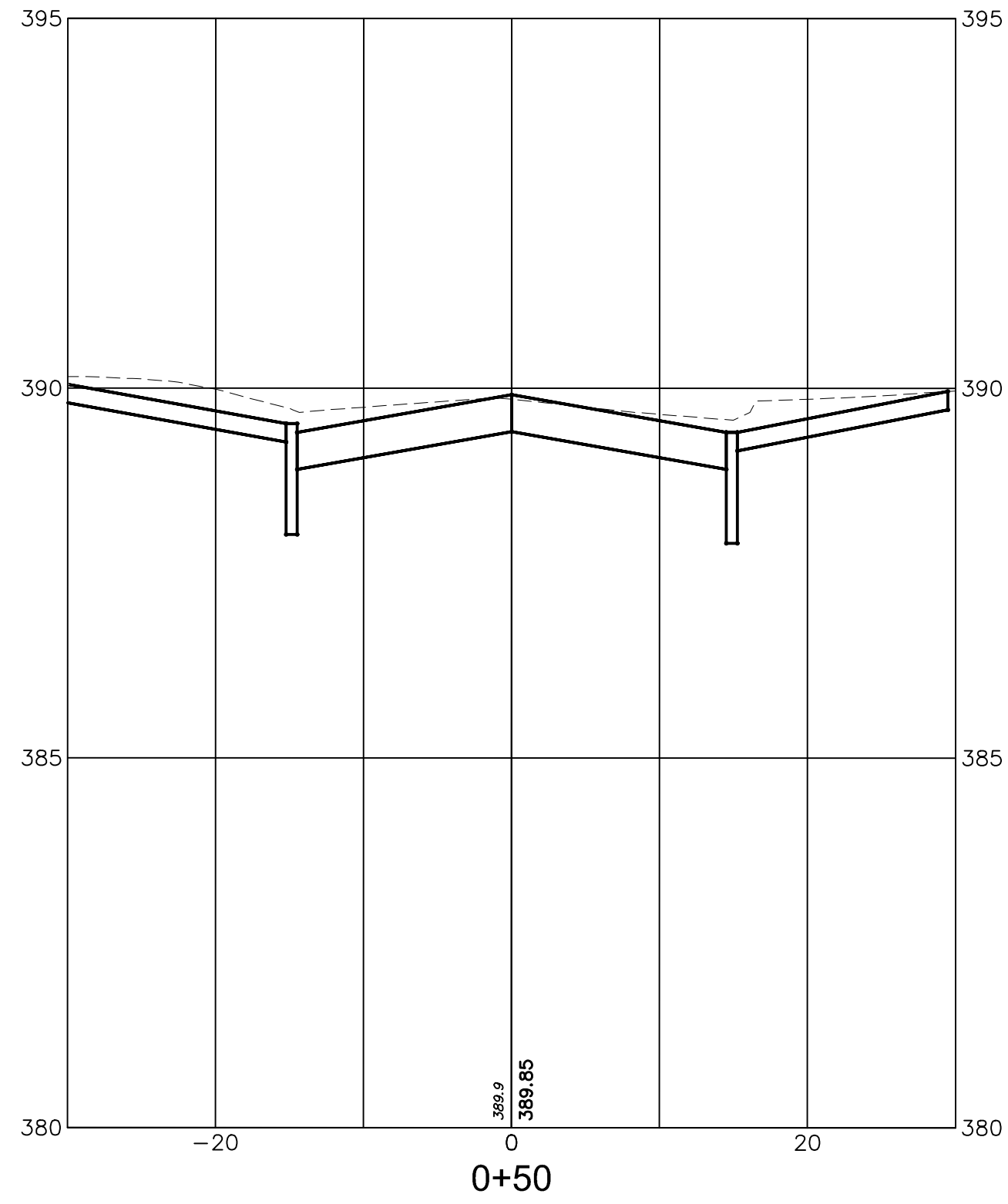
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

26
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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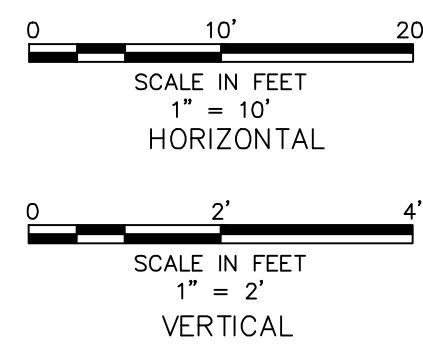
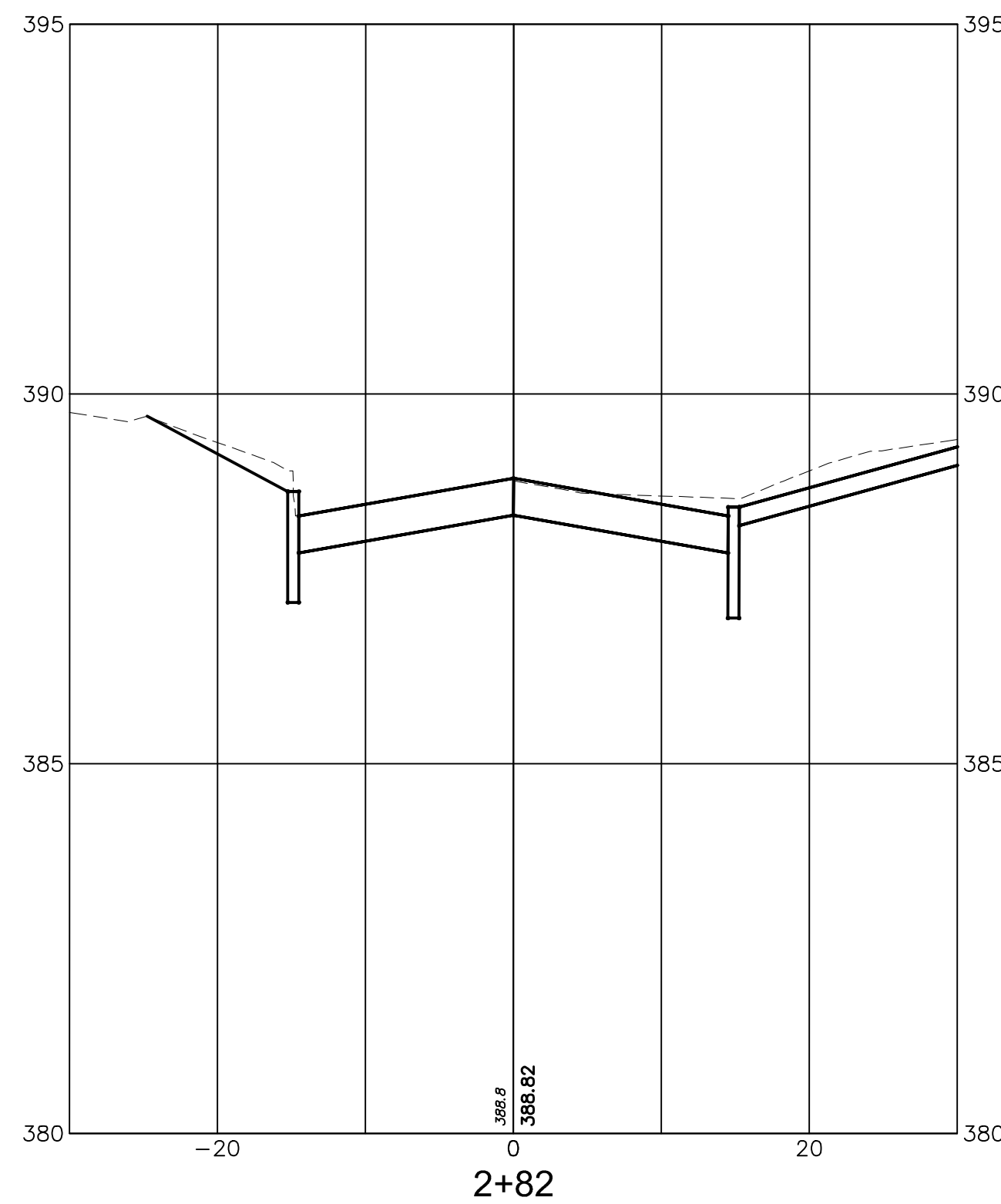
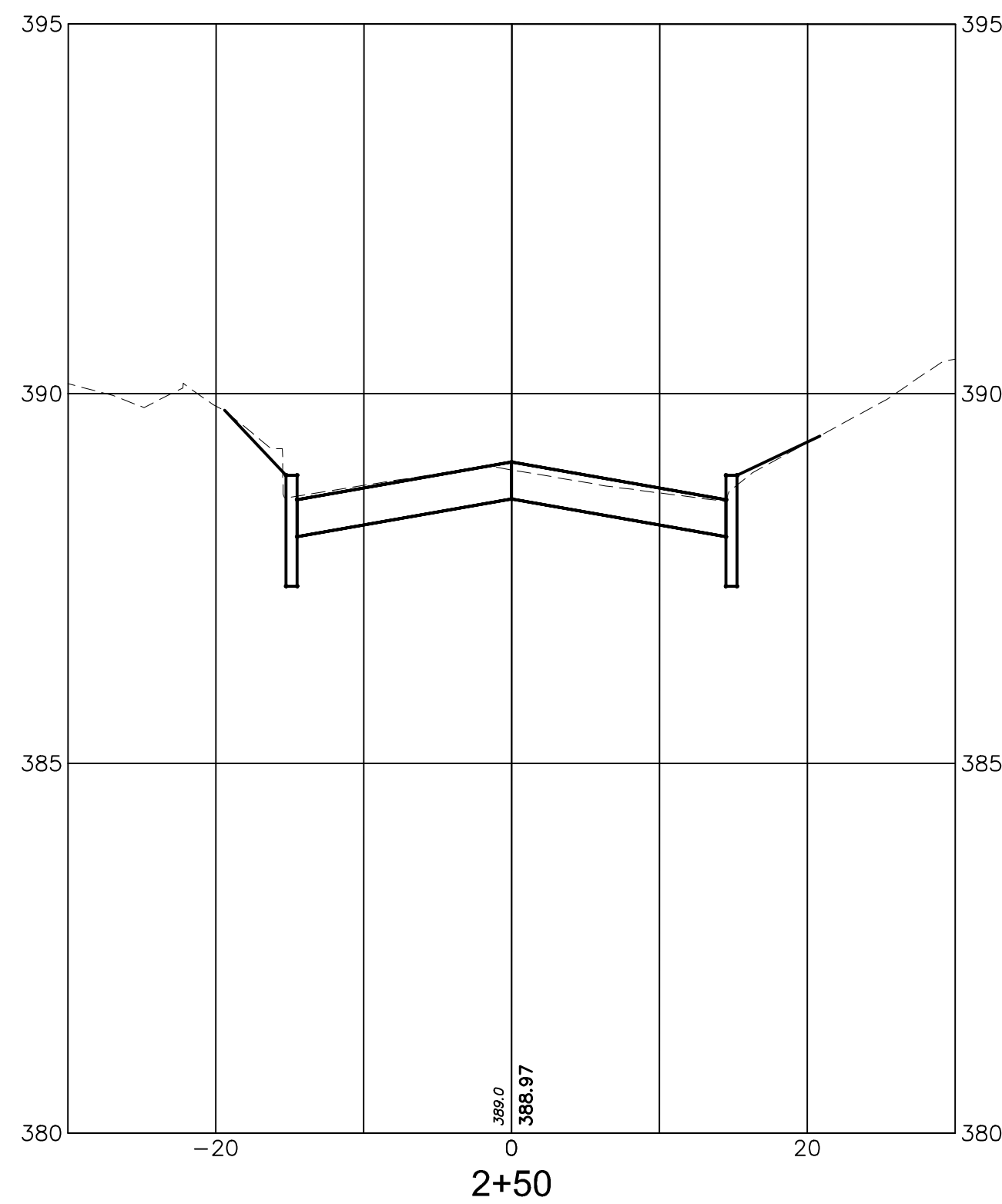
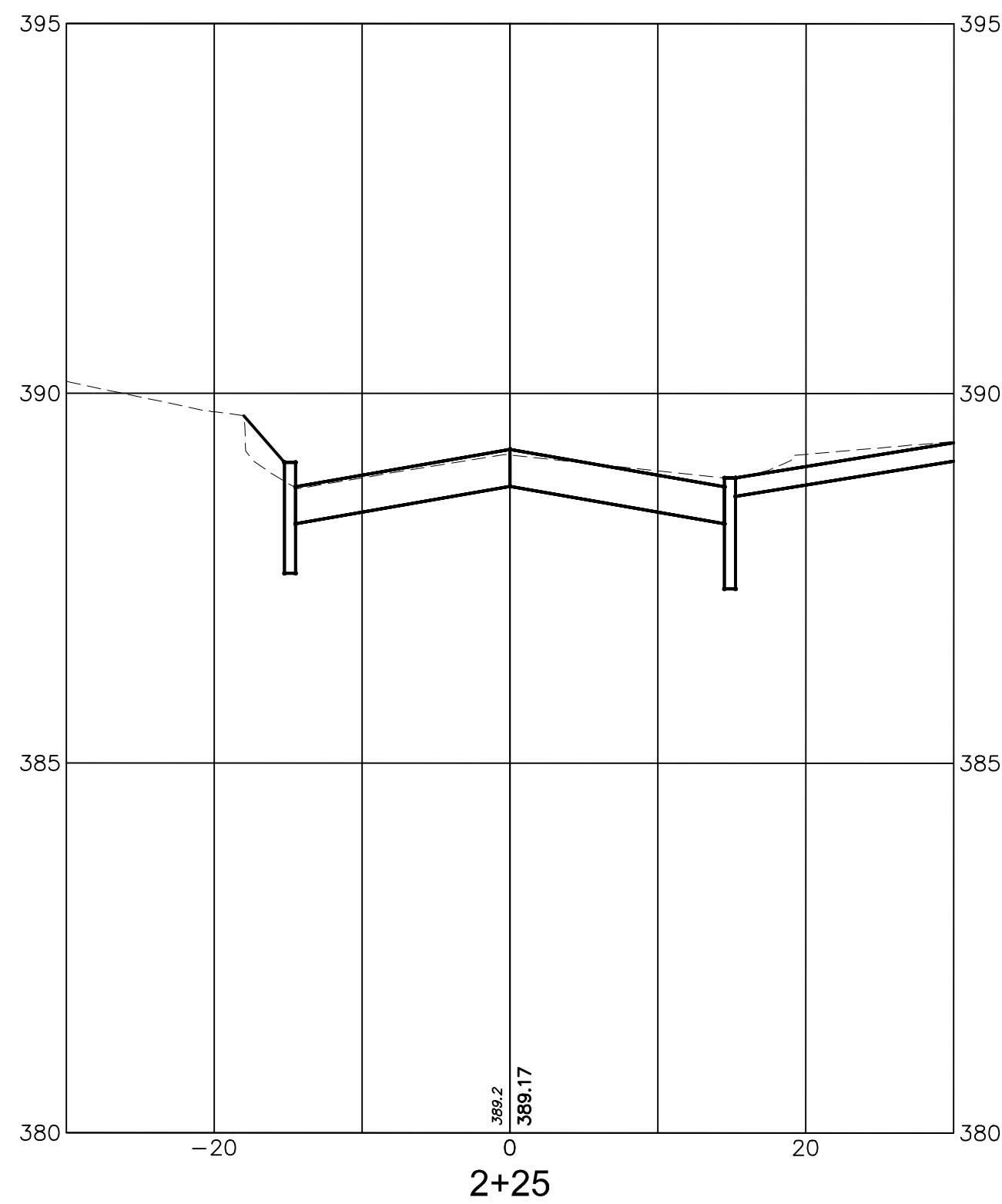
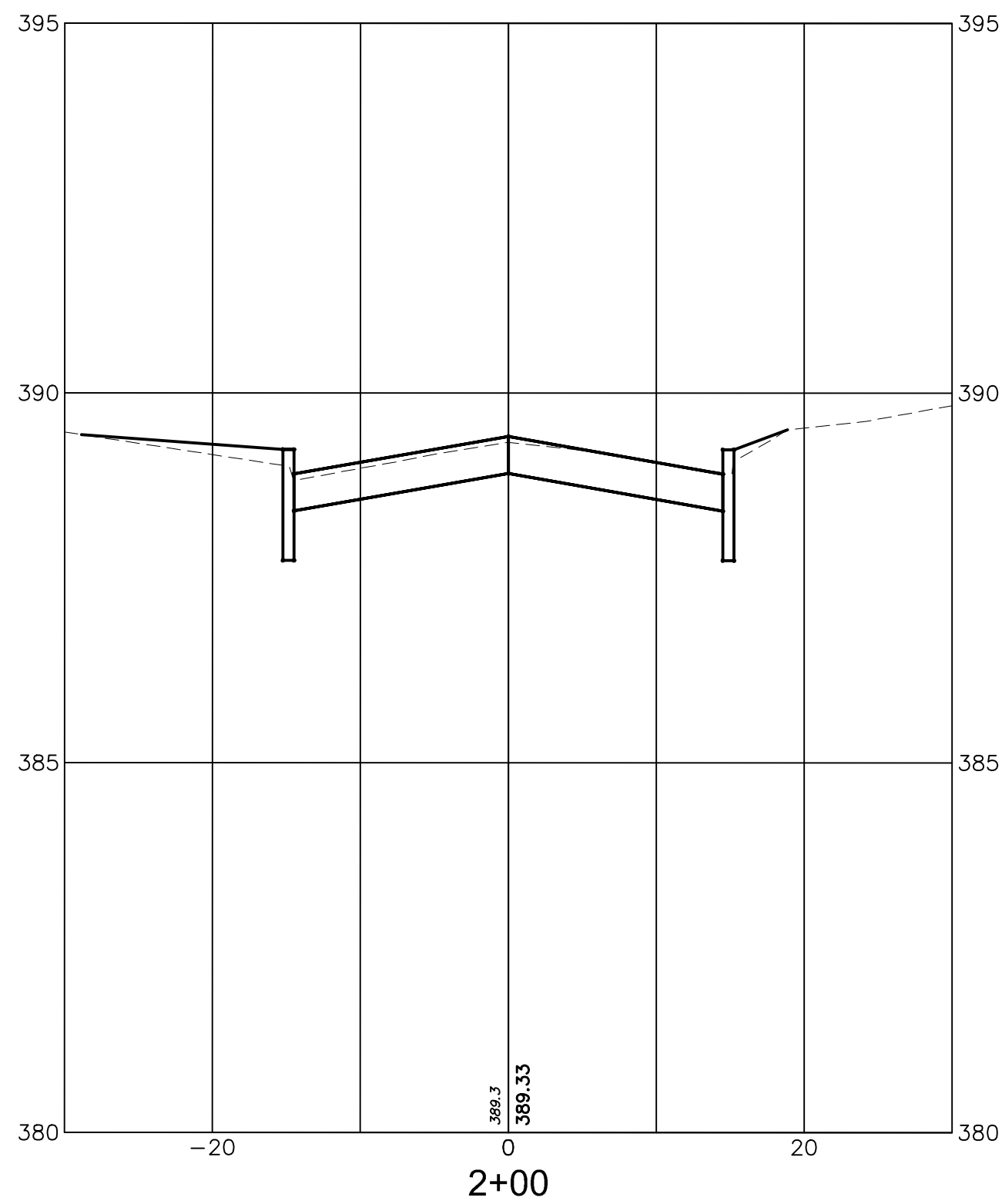
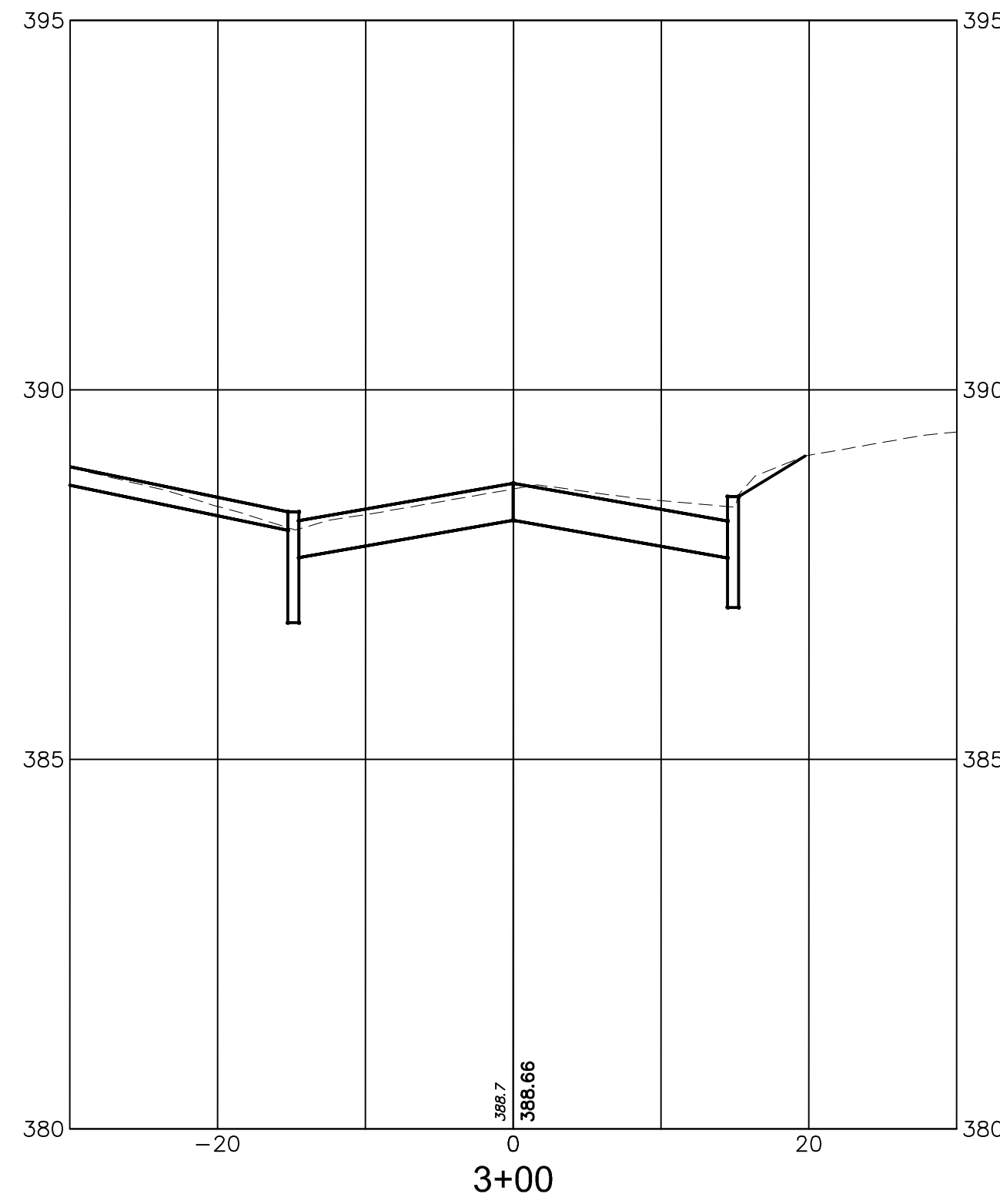
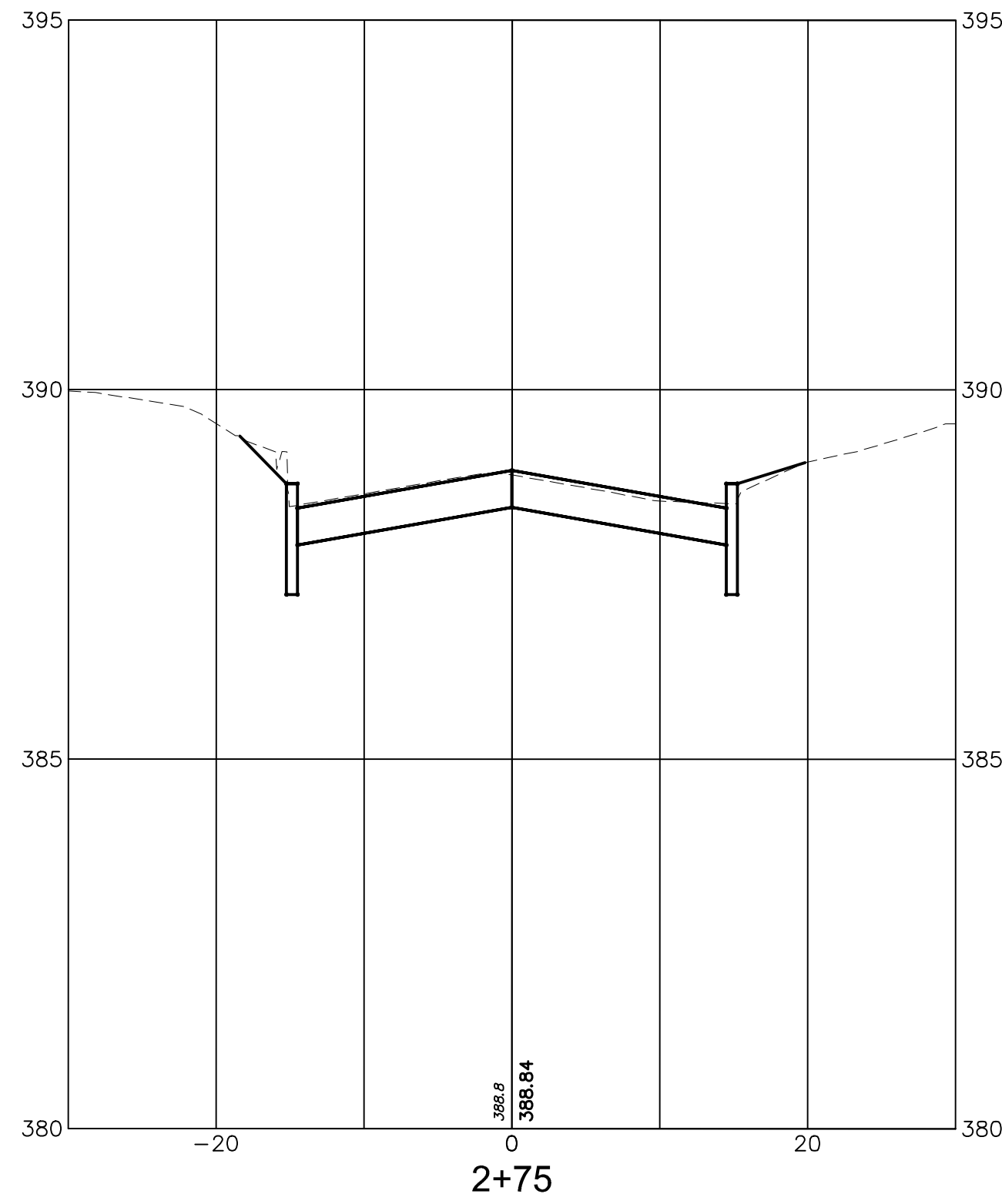
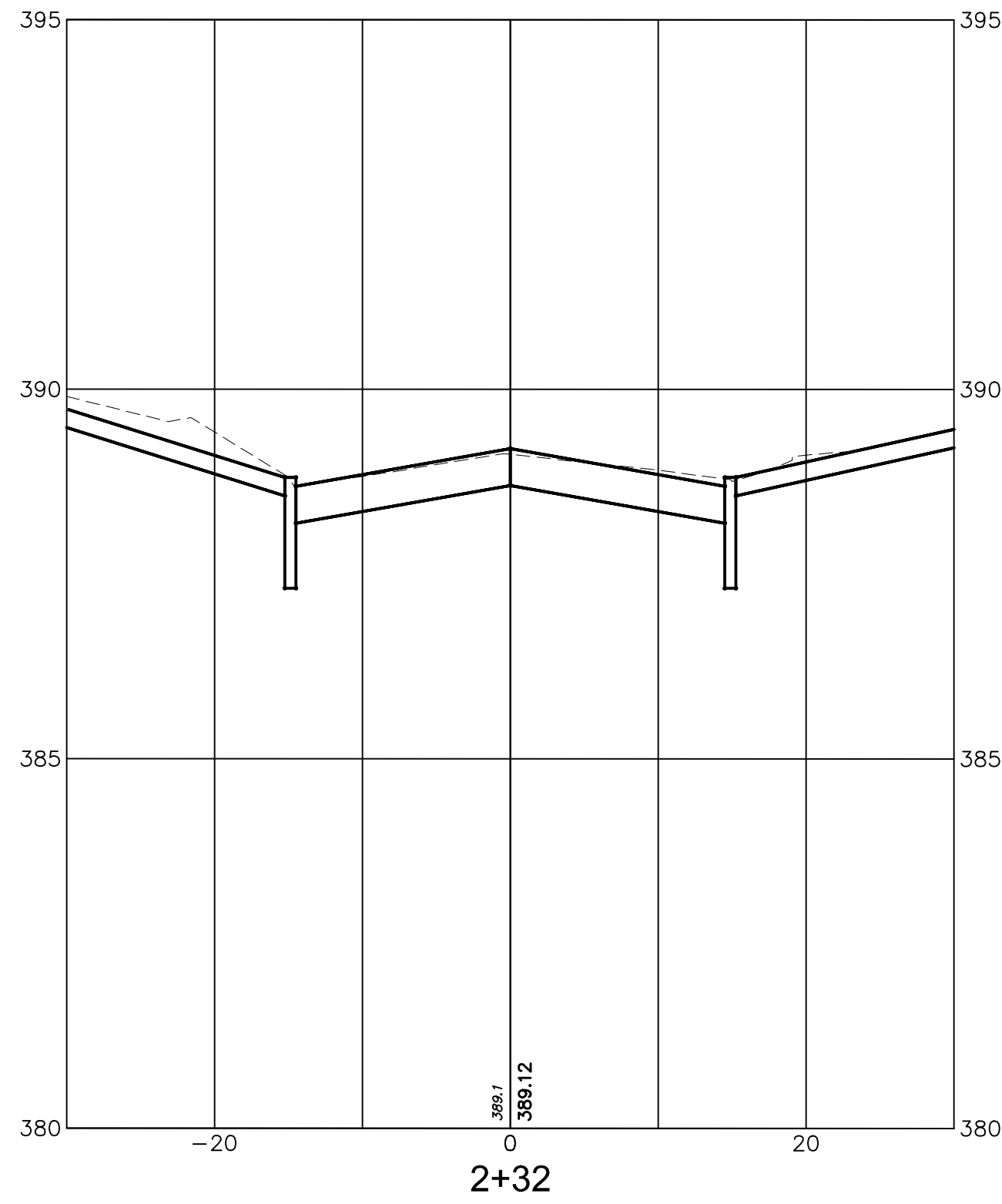
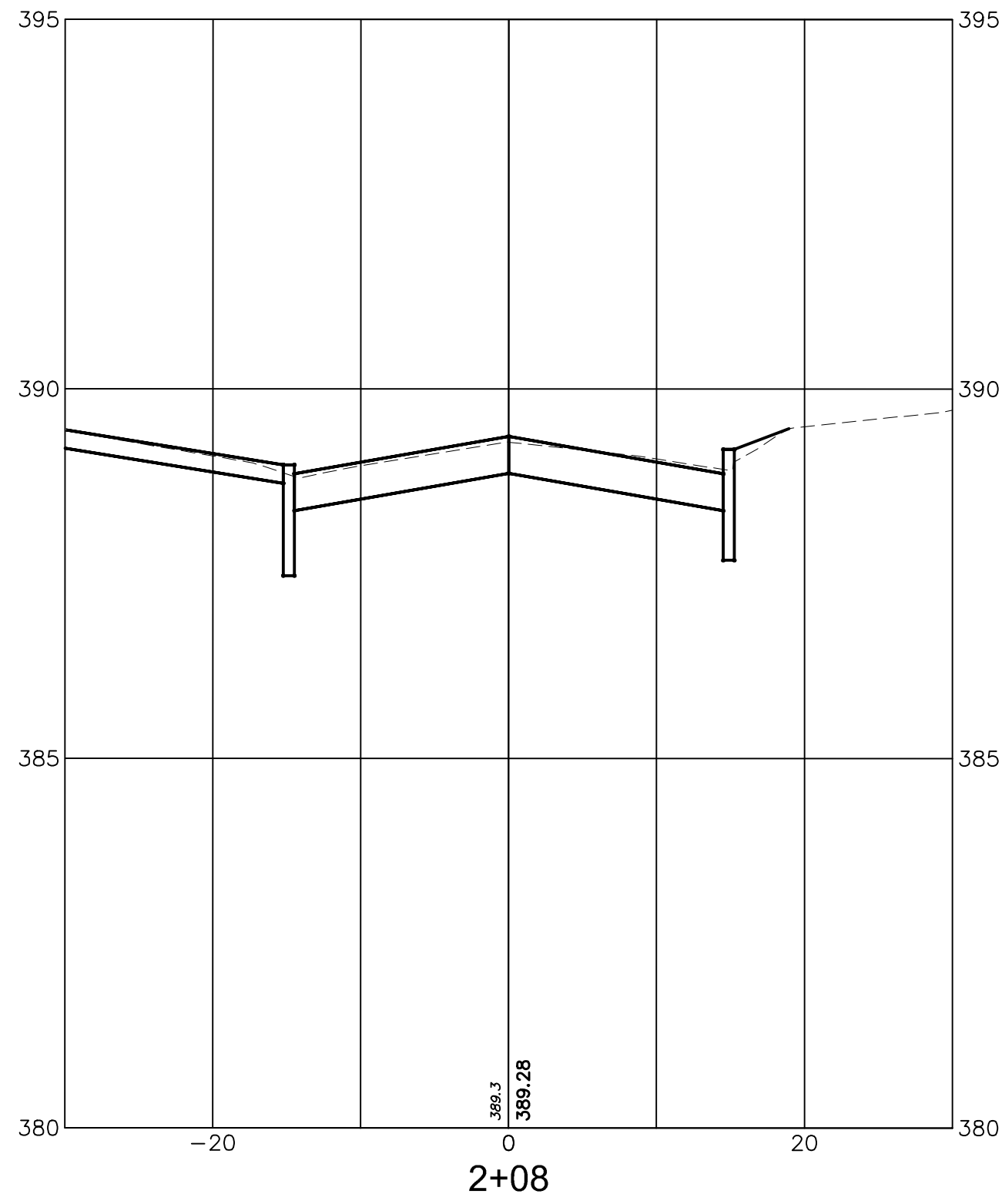
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 246A28132300

CROSS SECTIONS
OF
PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

27
35

F:\Projects\VCEA - Phillipsburg Office\2004-MRR - Morris Township Roads\DMC 2019\Phn\2004MRR-Phn - Construction - SECTIONS.dwg - 029 - XSEC 16



			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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755 MEMORIAL PARKWAY, SUITE 110 PHILLIPSBURG, NJ 08865
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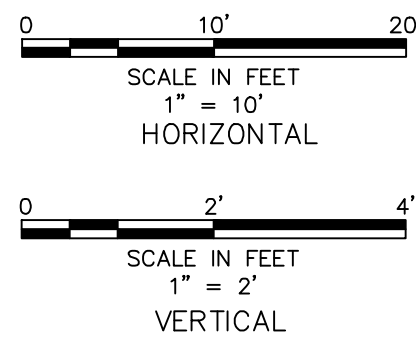
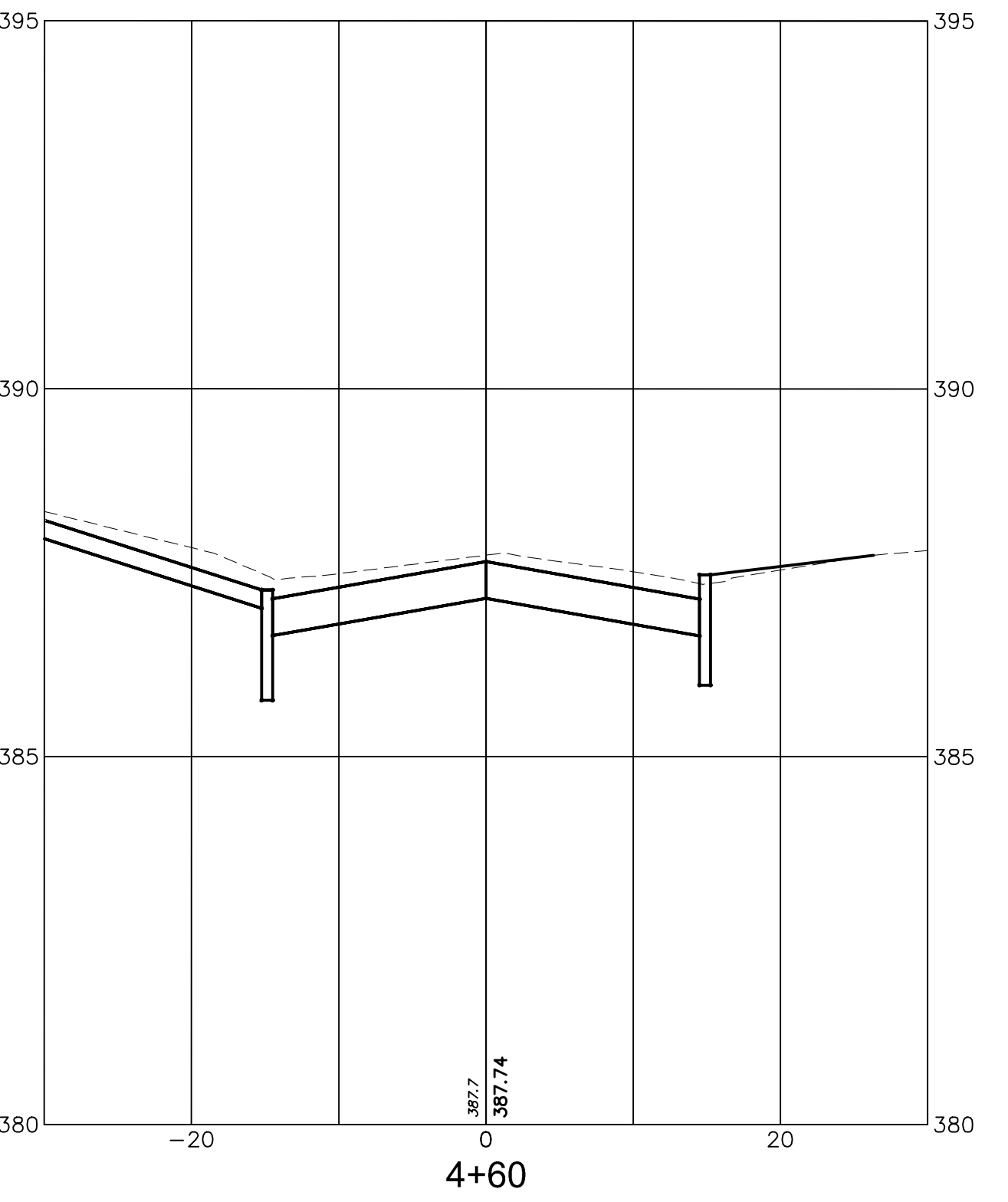
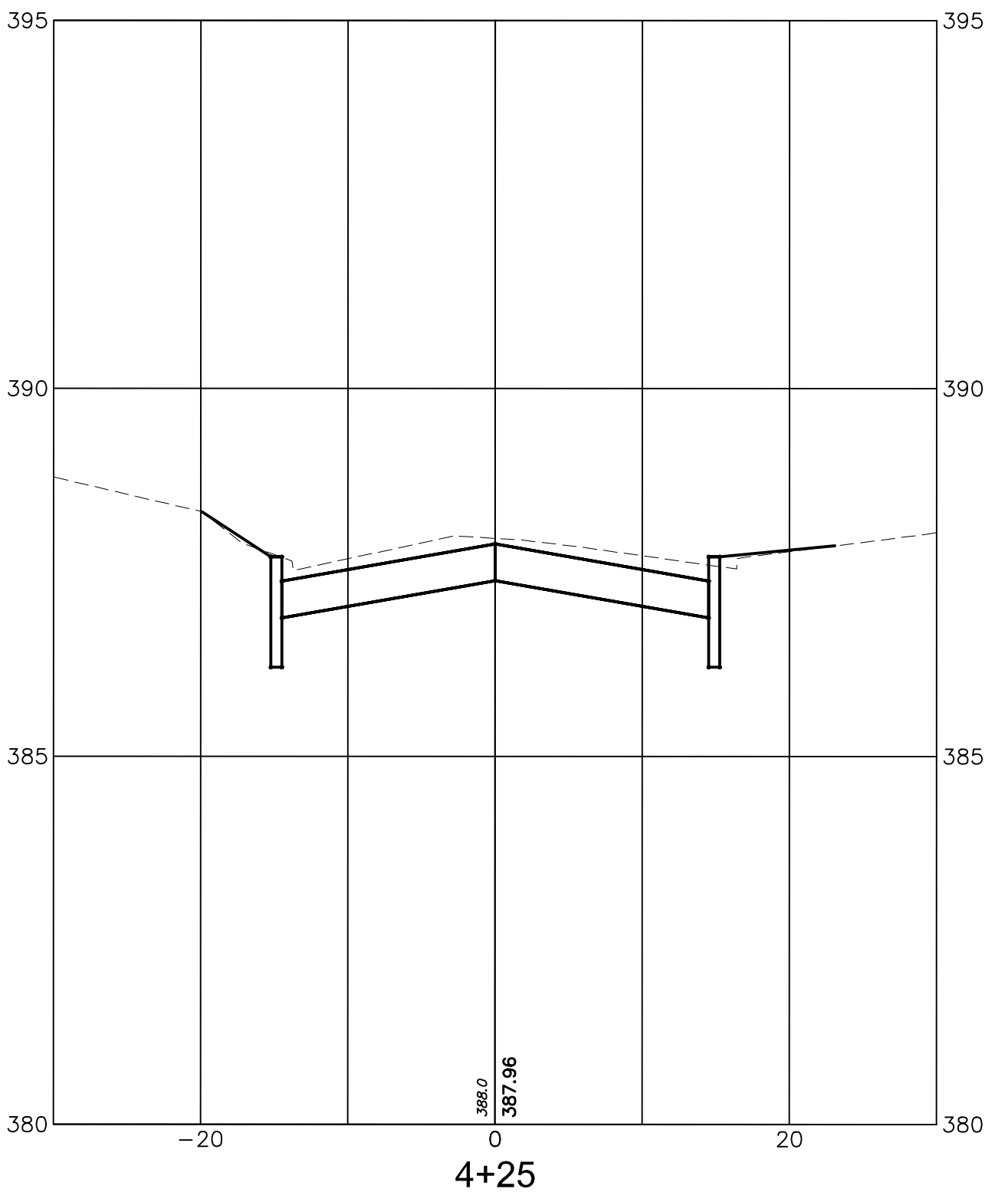
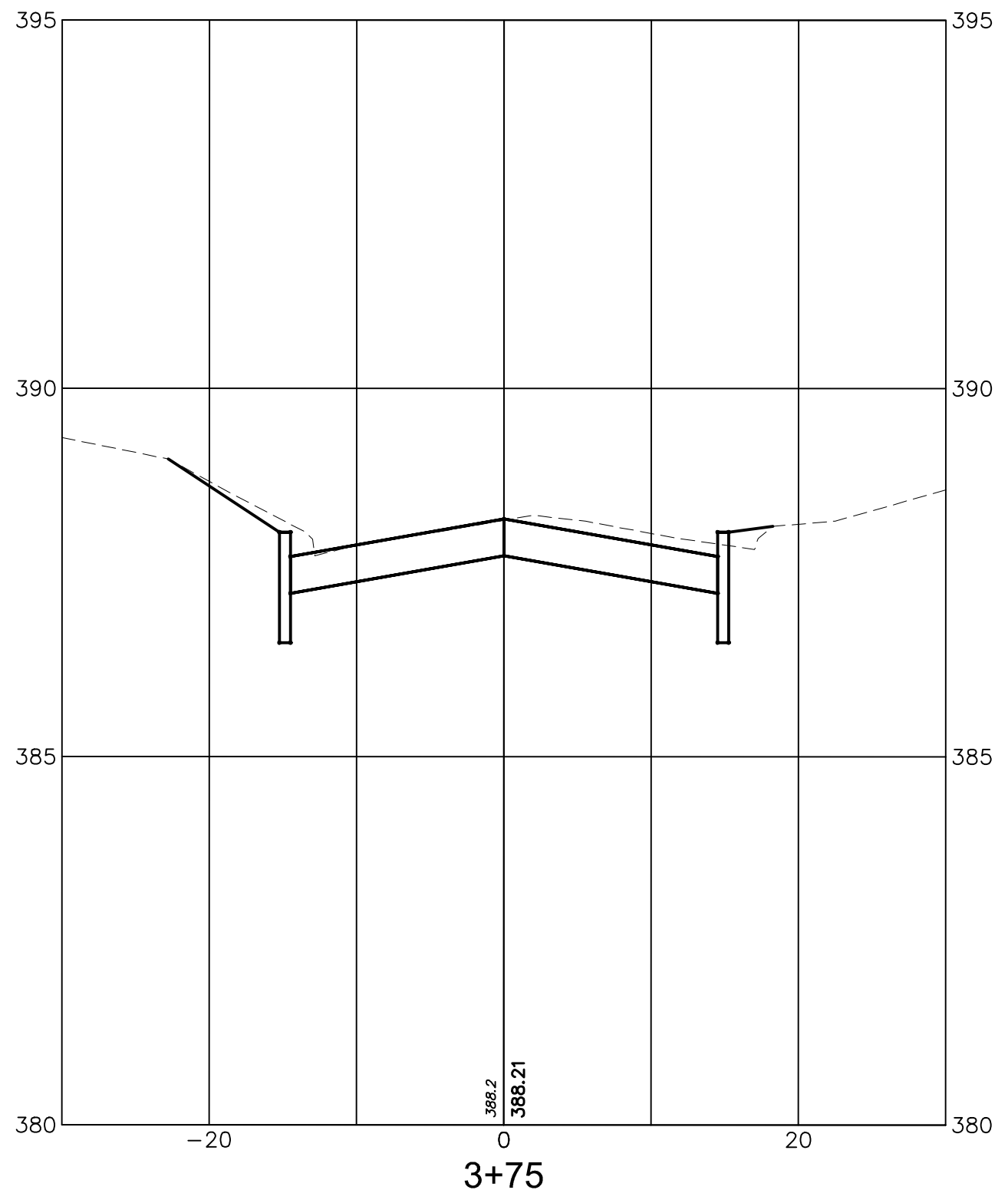
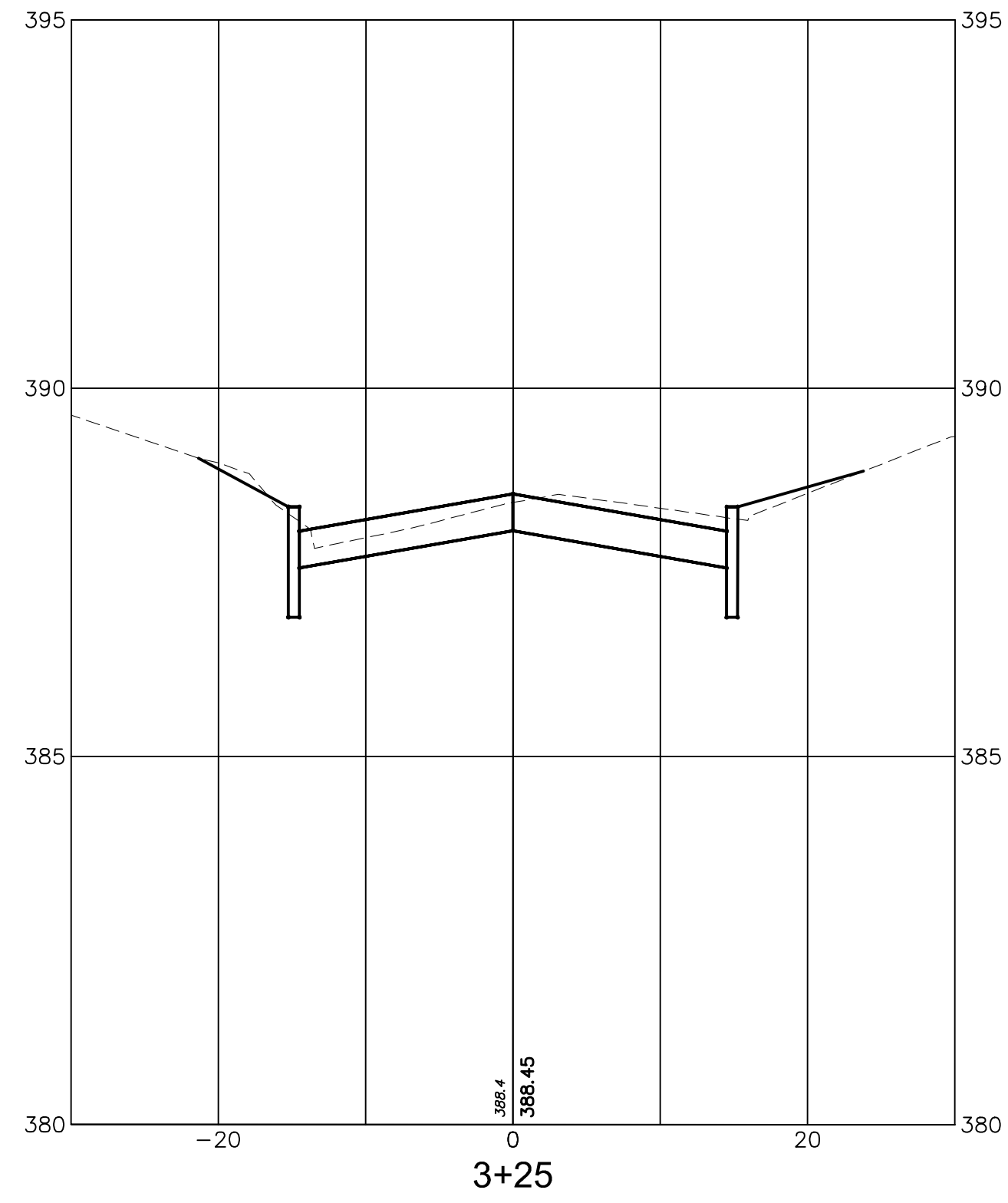
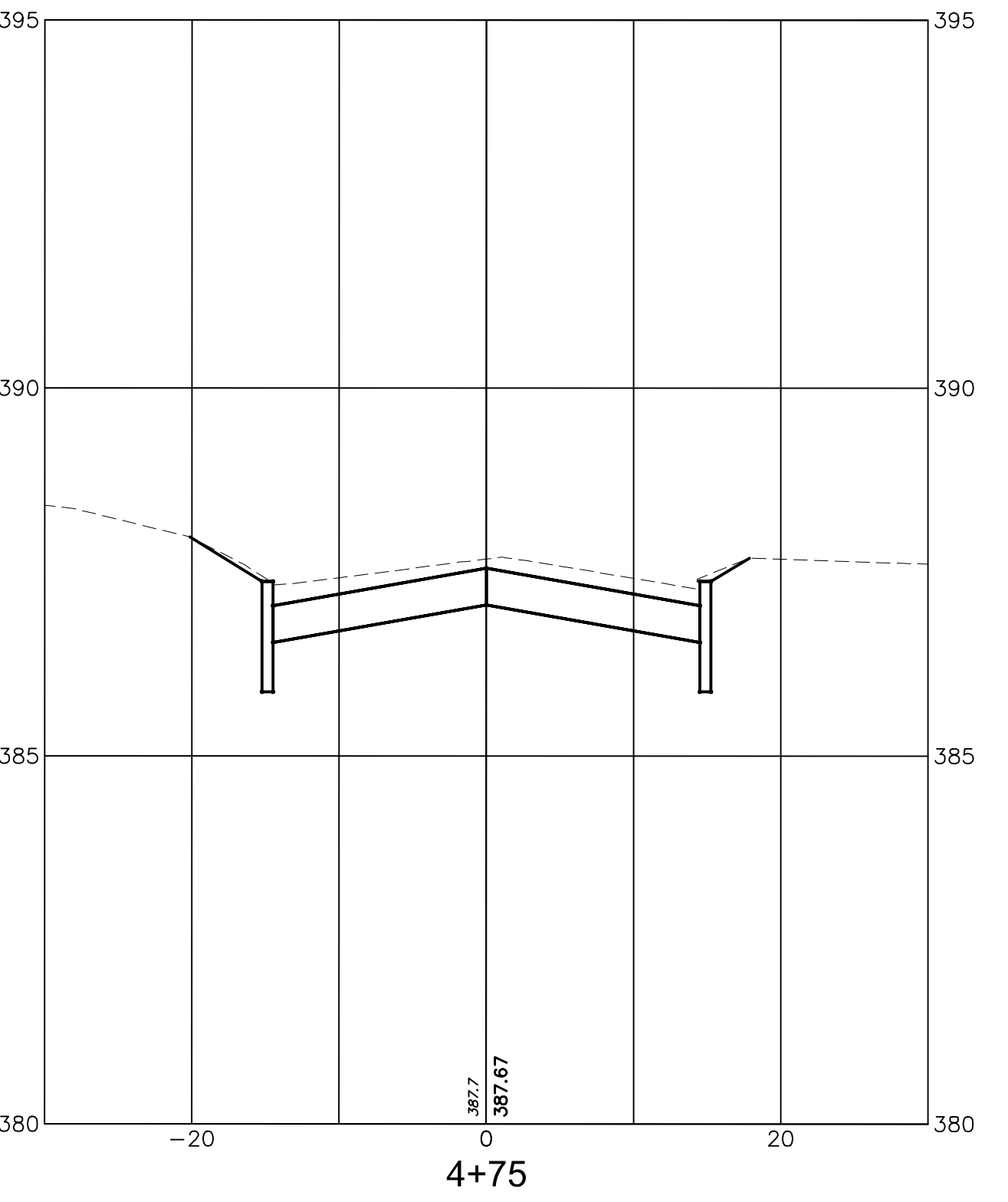
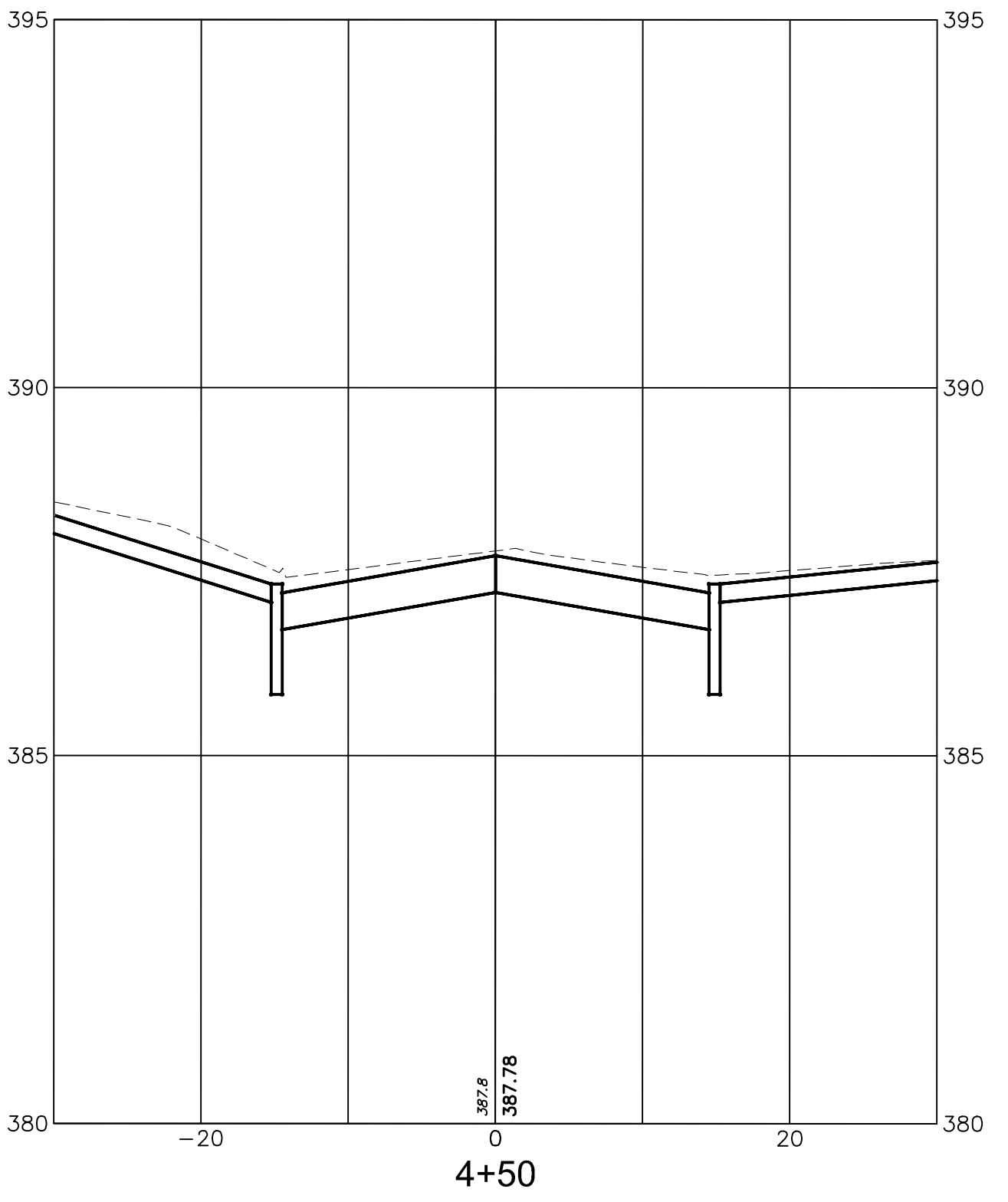
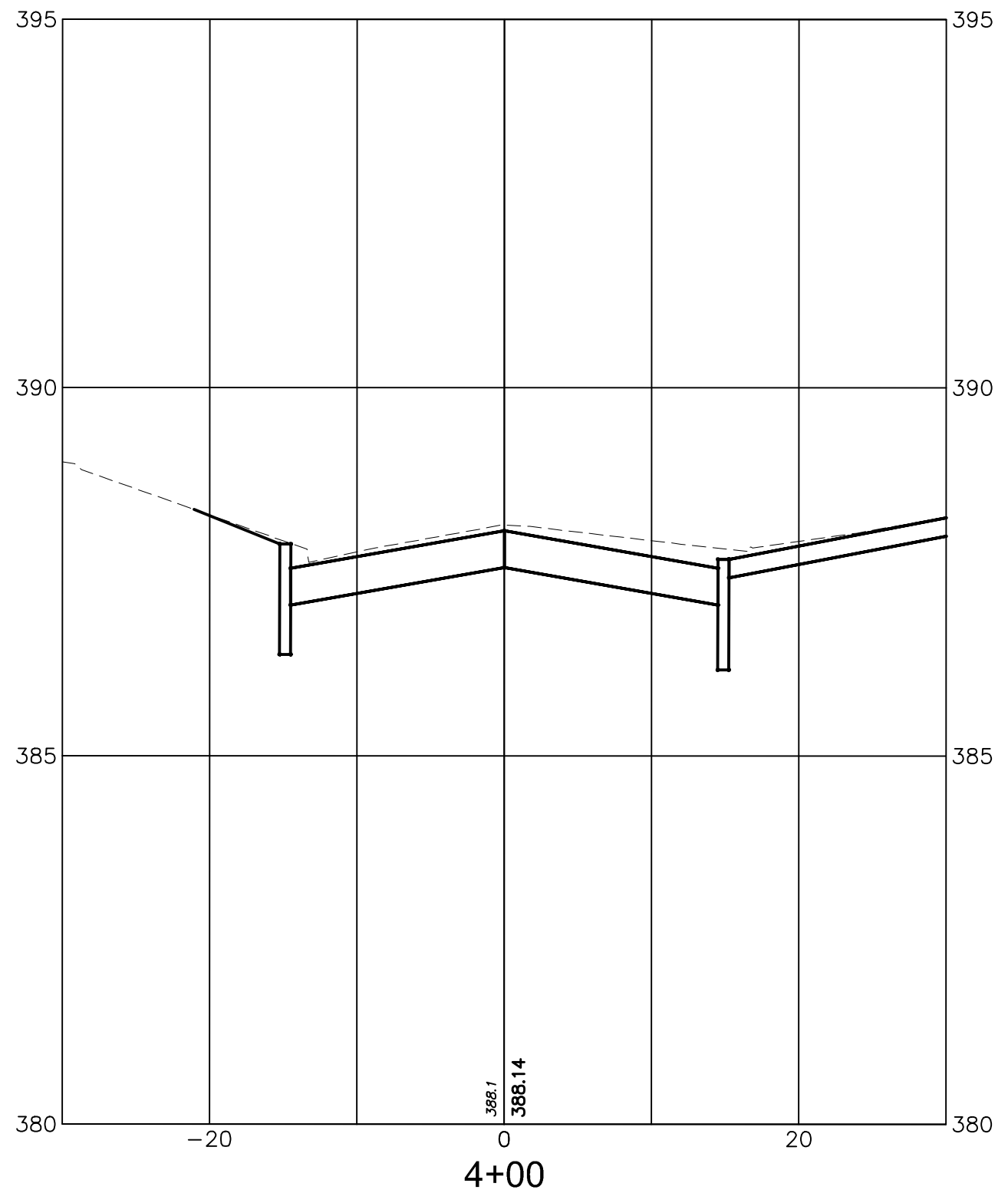
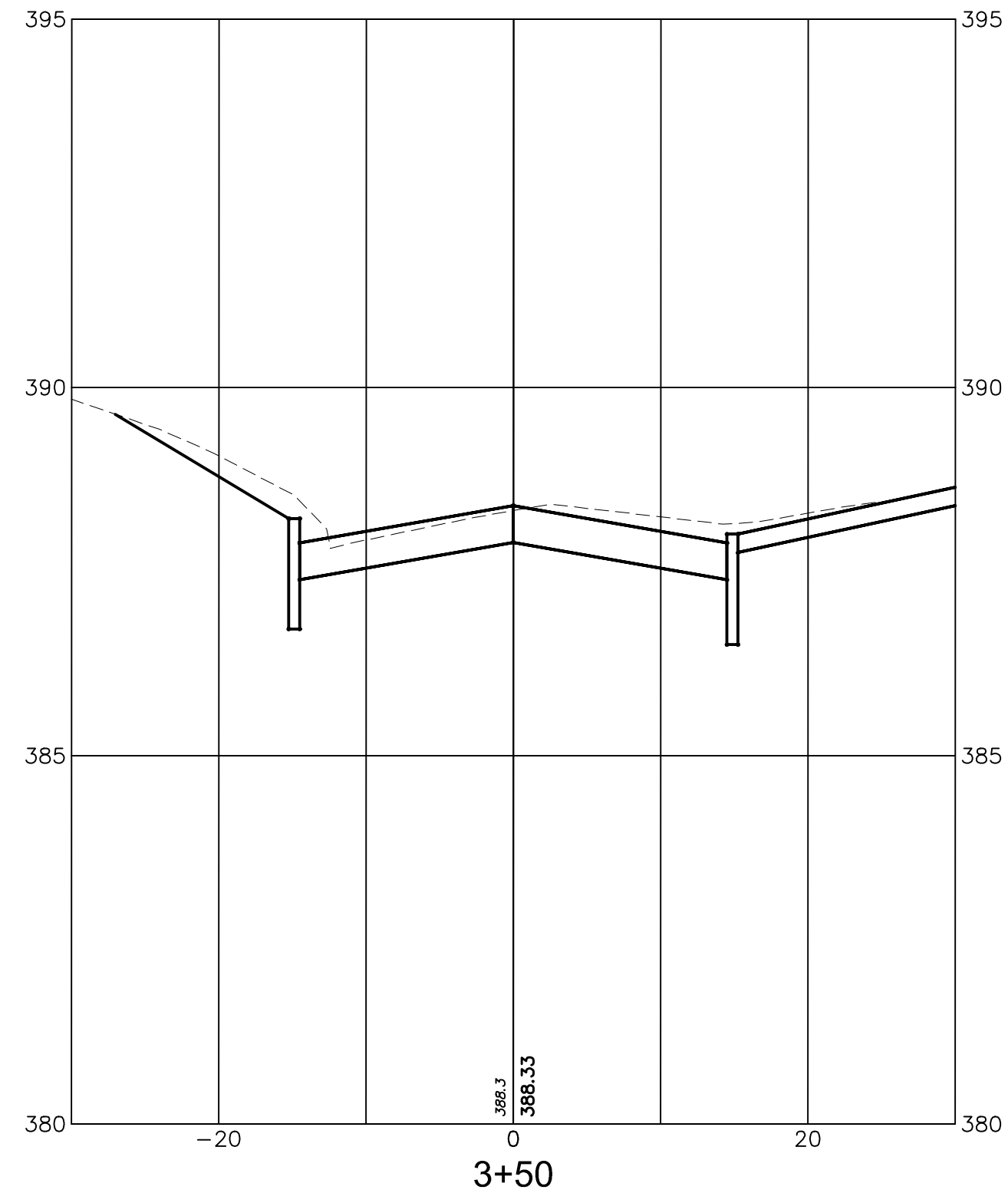
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLC CERT. No. 24GA28132300

CROSS SECTIONS
OF
PINE TREE LAKE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

28
35

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			DATE:	JANUARY 2022
			SCALE:	AS NOTED
			DESIGNED BY:	TMO
			DRAWN BY:	JTB
			CHECKED BY:	SJS
REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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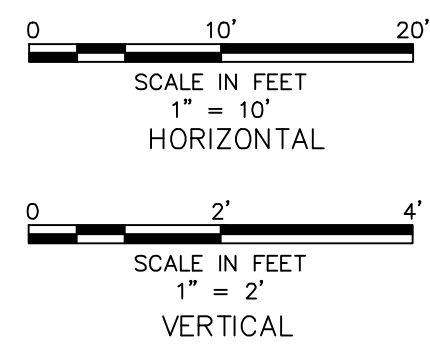
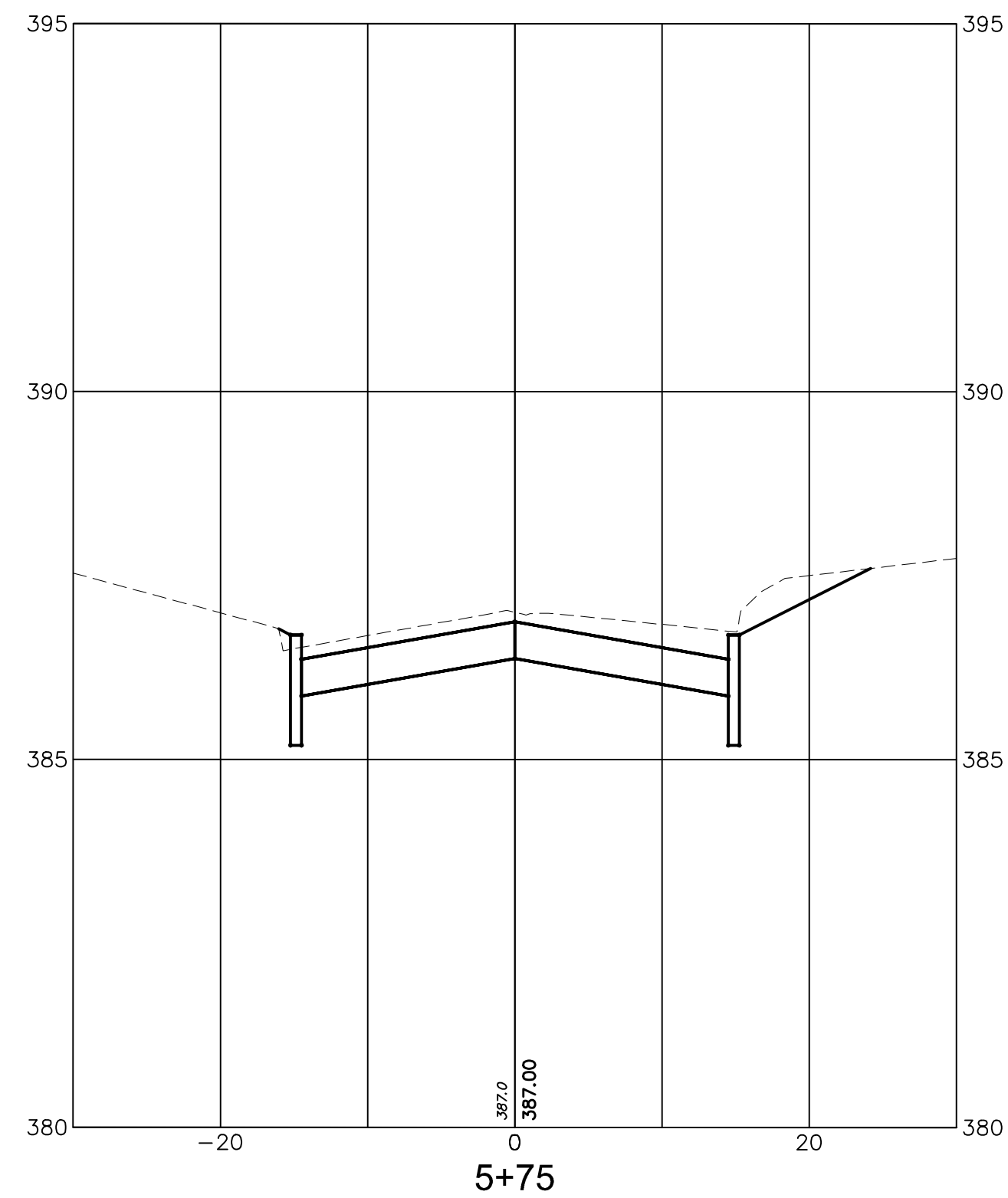
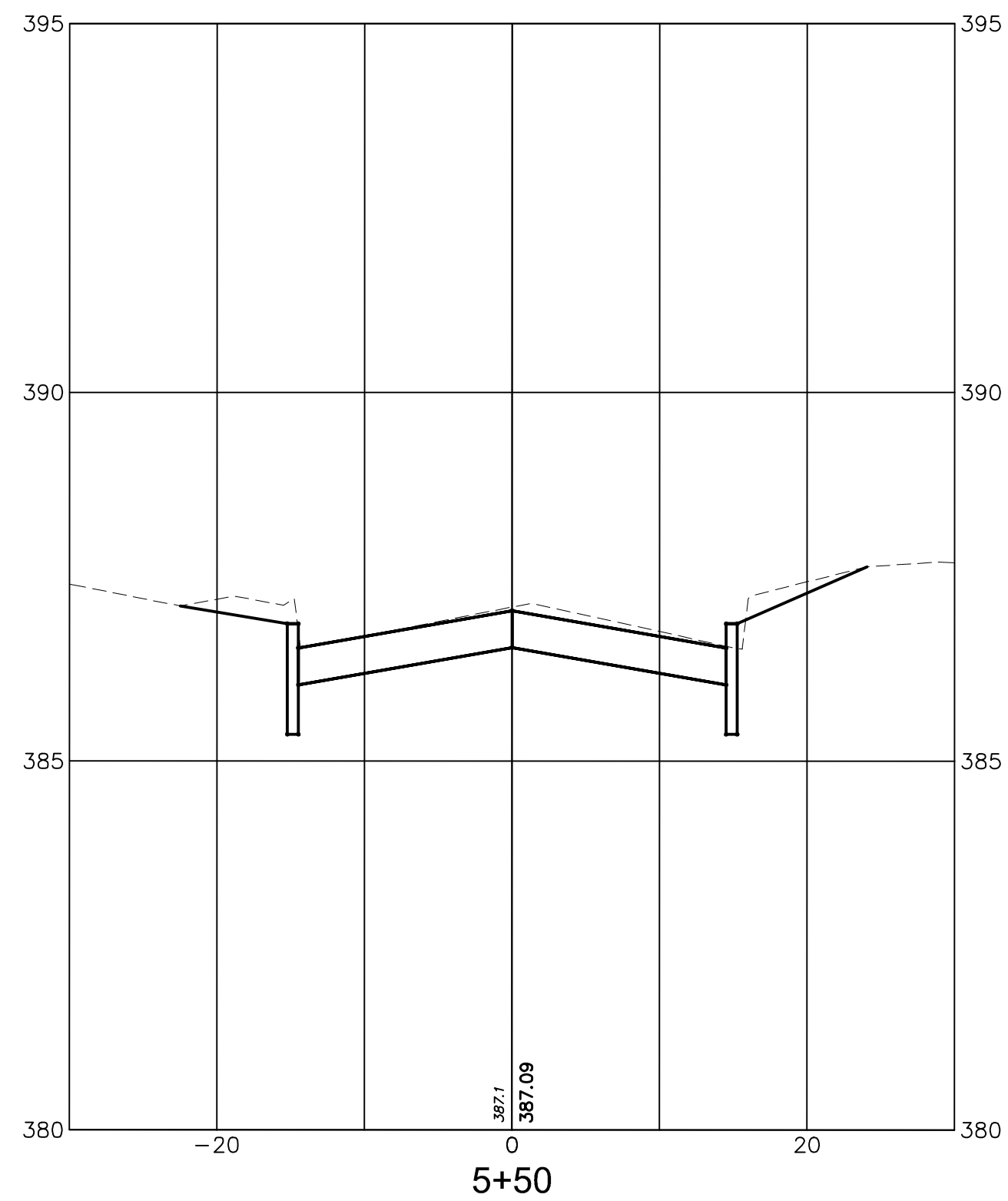
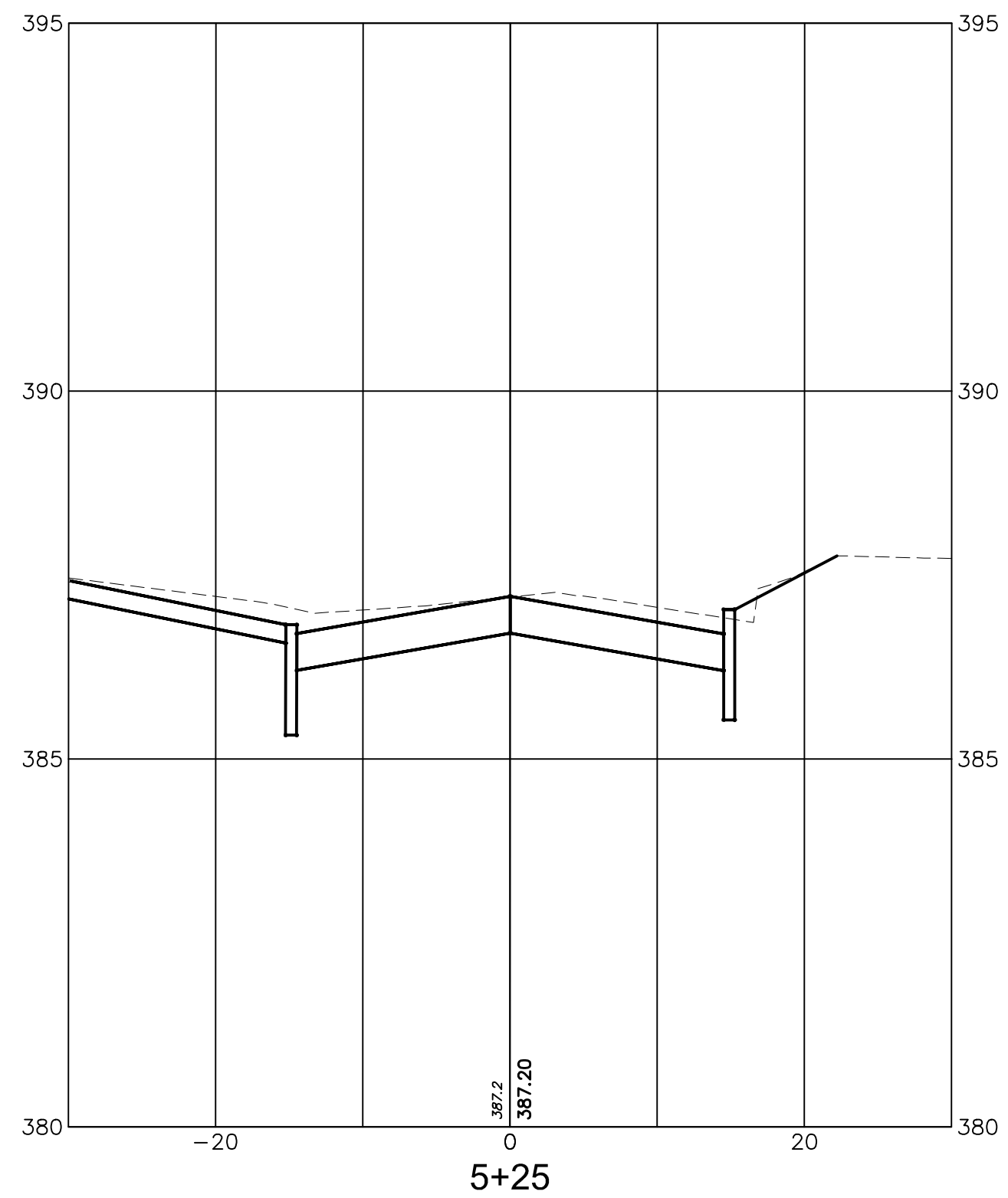
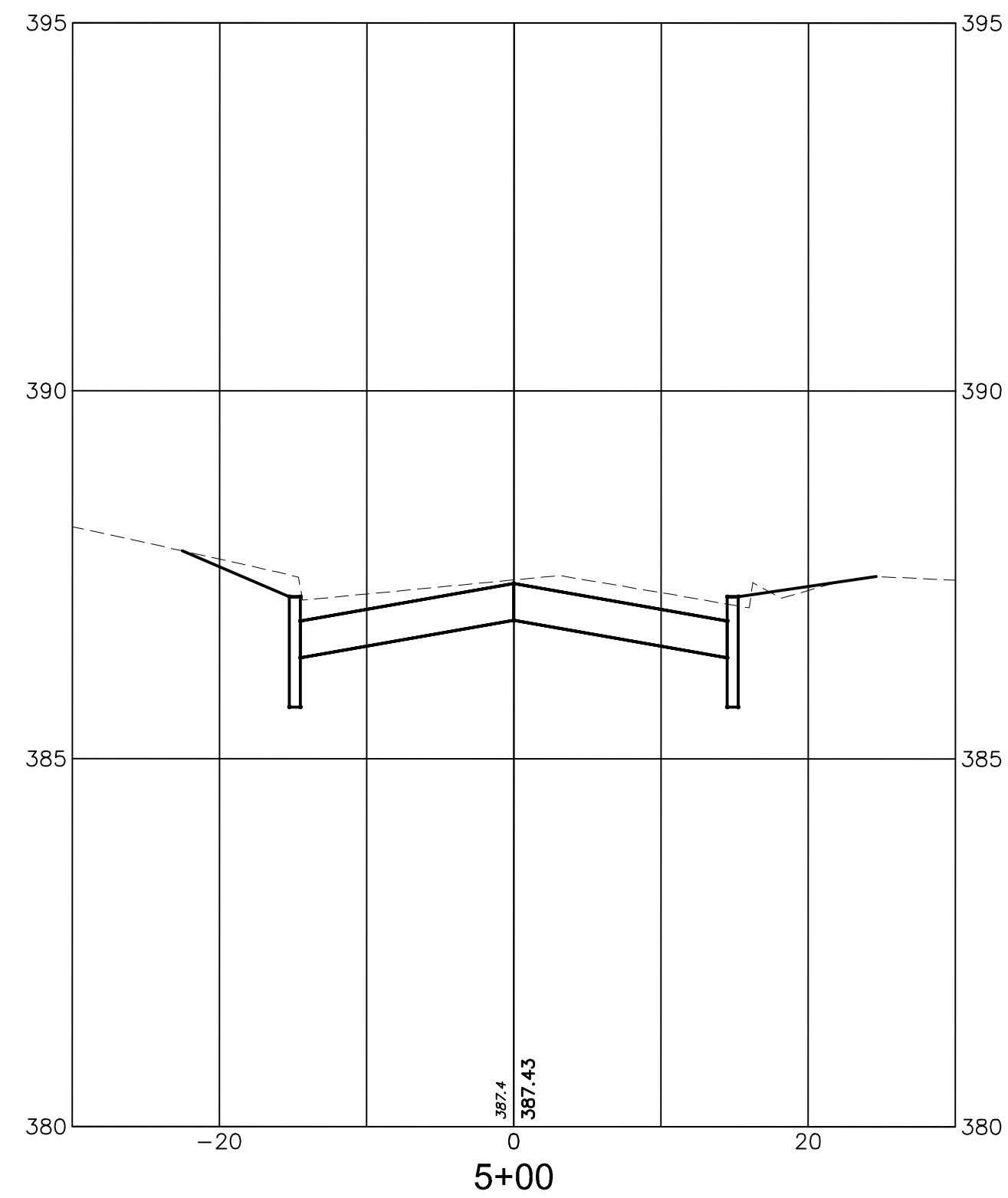
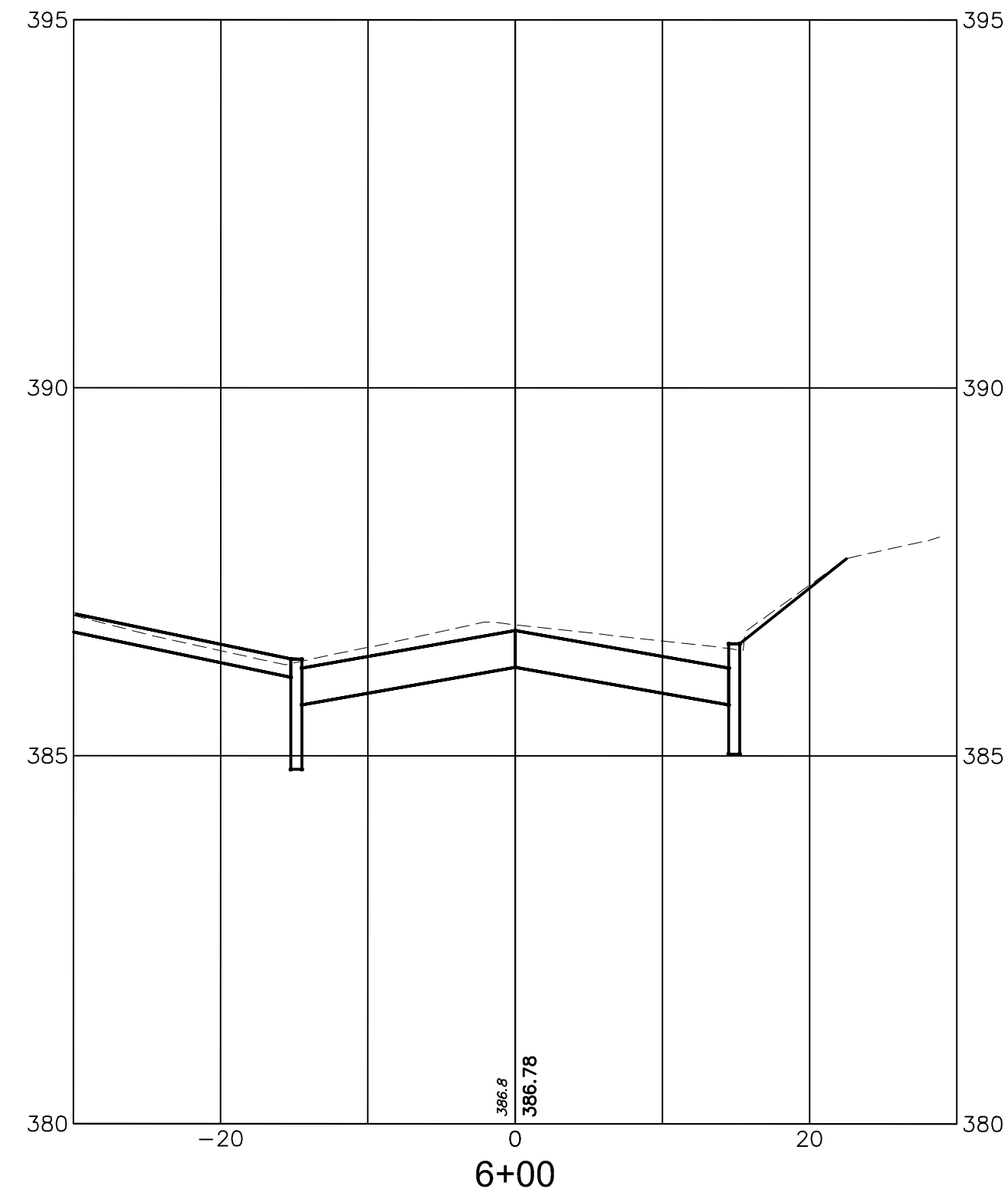
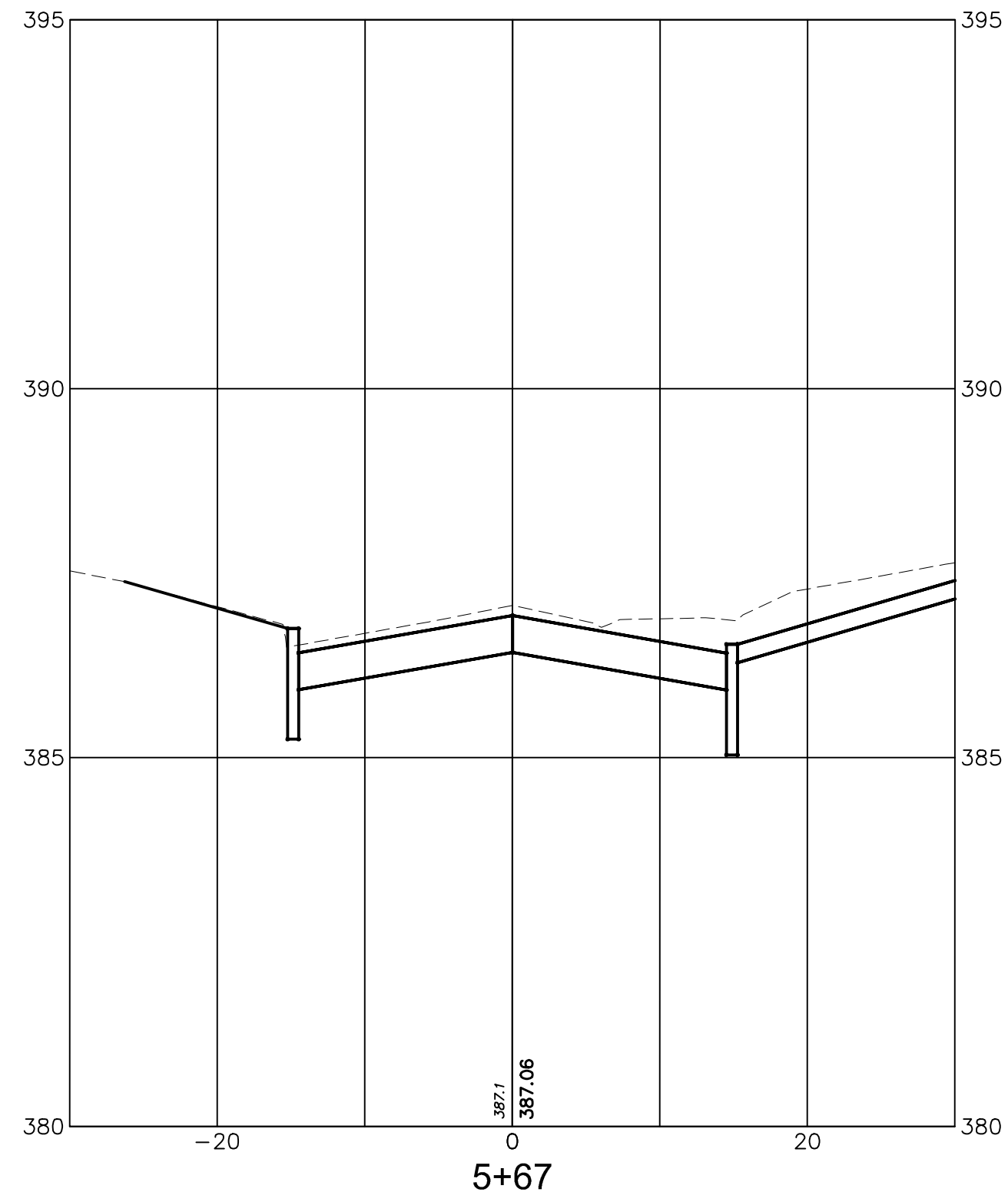
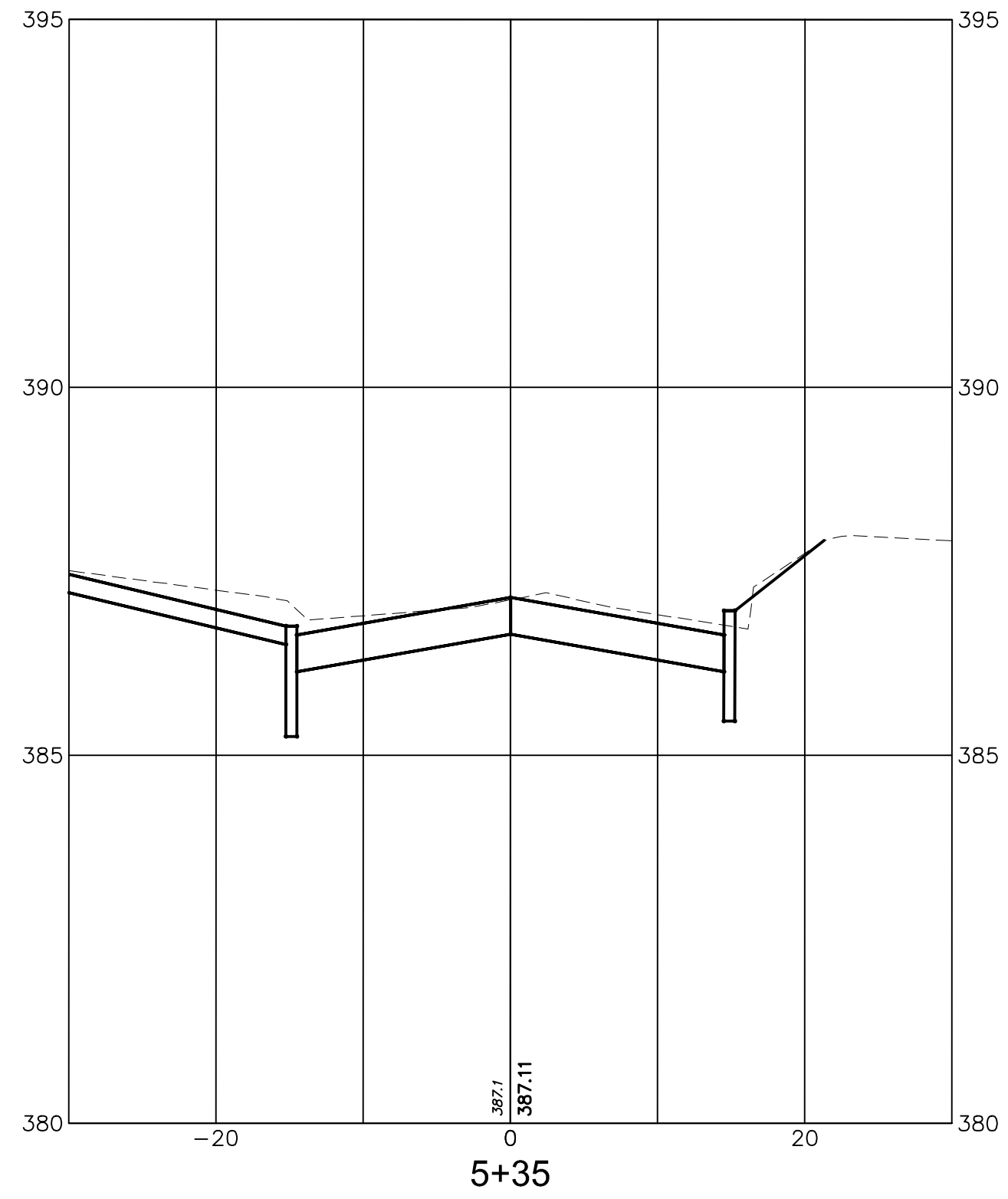
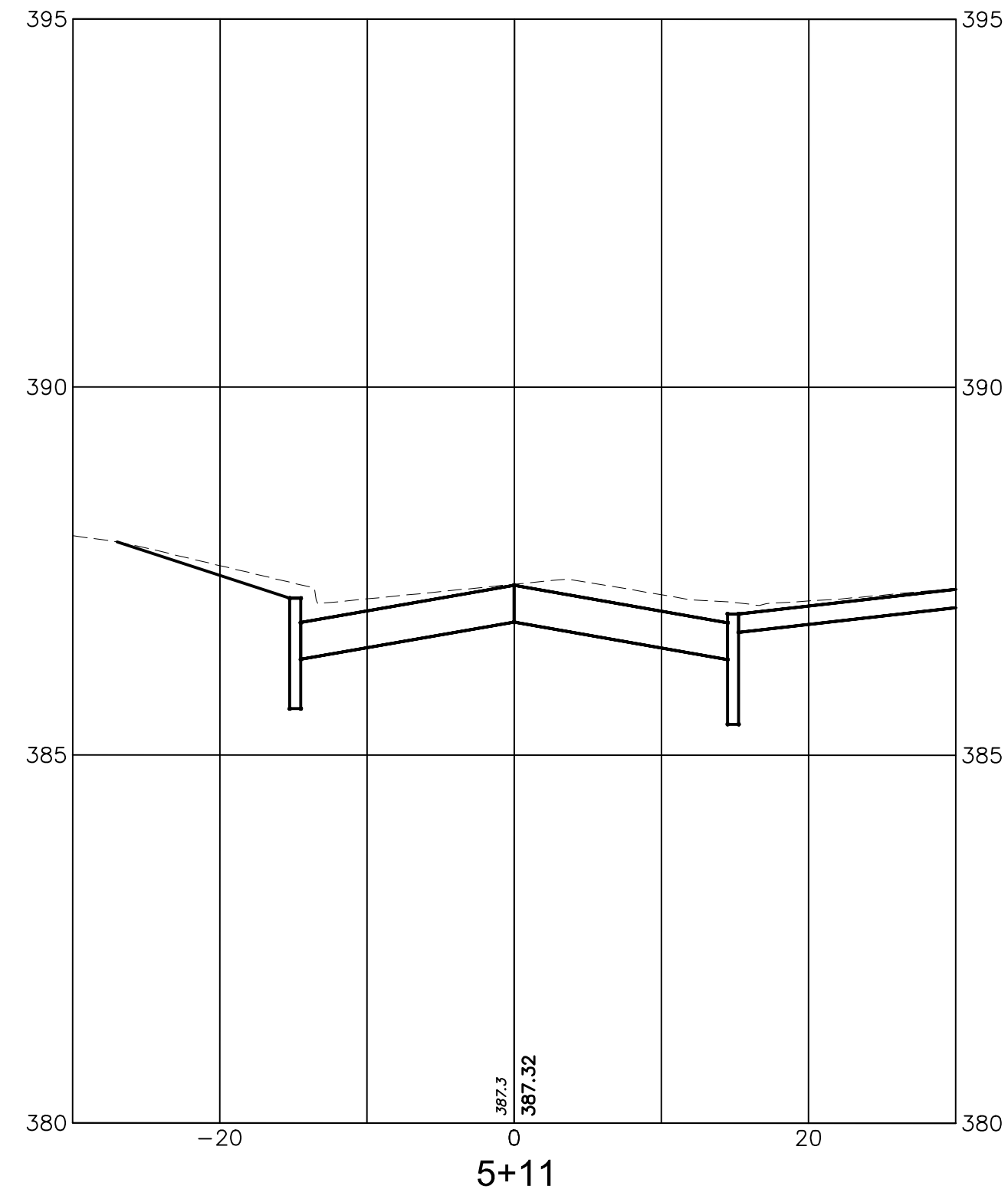
Consulting Civil Engineering
Bridge Design
Highway Design
Construction Inspection
Geotechnical Engineering
Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
Landscape Architecture

NJ LLG CERT. No. 24GA28132300

CROSS SECTIONS
OF
PINE TREE LANE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

29
35

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			DATE:	JANUARY 2022
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			DESIGNED BY:	TMO
			DRAWN BY:	JTB
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REVISIONS	AUTH.	DATE	JOB NO.	2004MRR
Stanley J. Schrek, P.E. Professional Engineer, New Jersey Lic. No. GE-28275				



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WEB: WWW.VANCLEEFENGINEERING.COM
PHONE: (908) 454-3080 FAX: (908) 454-1397

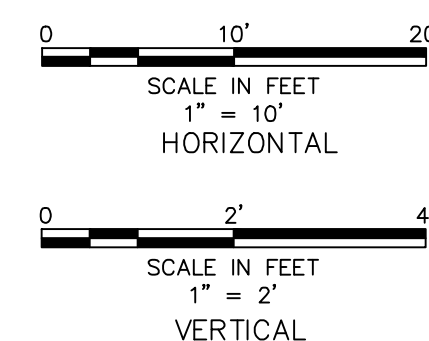
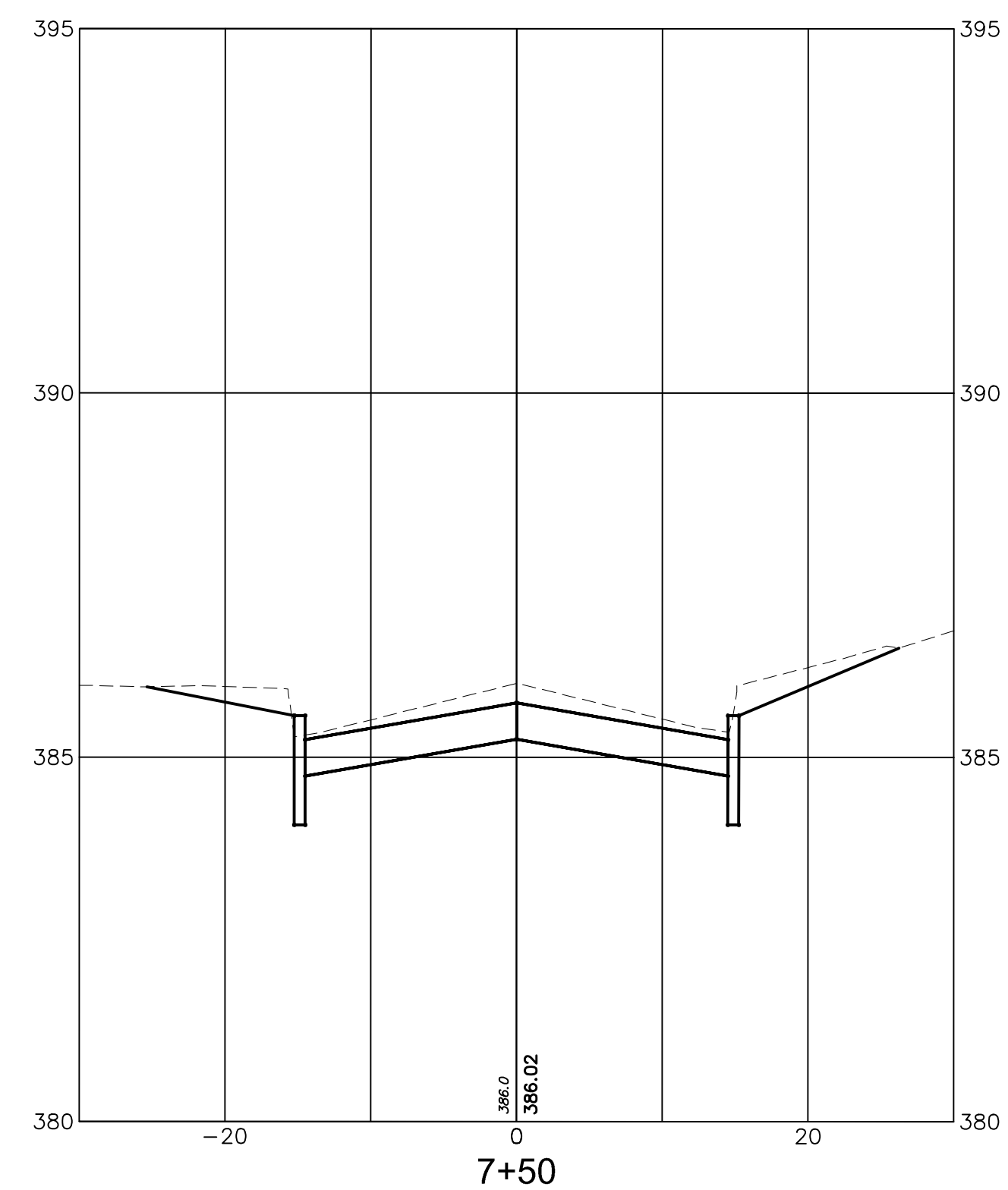
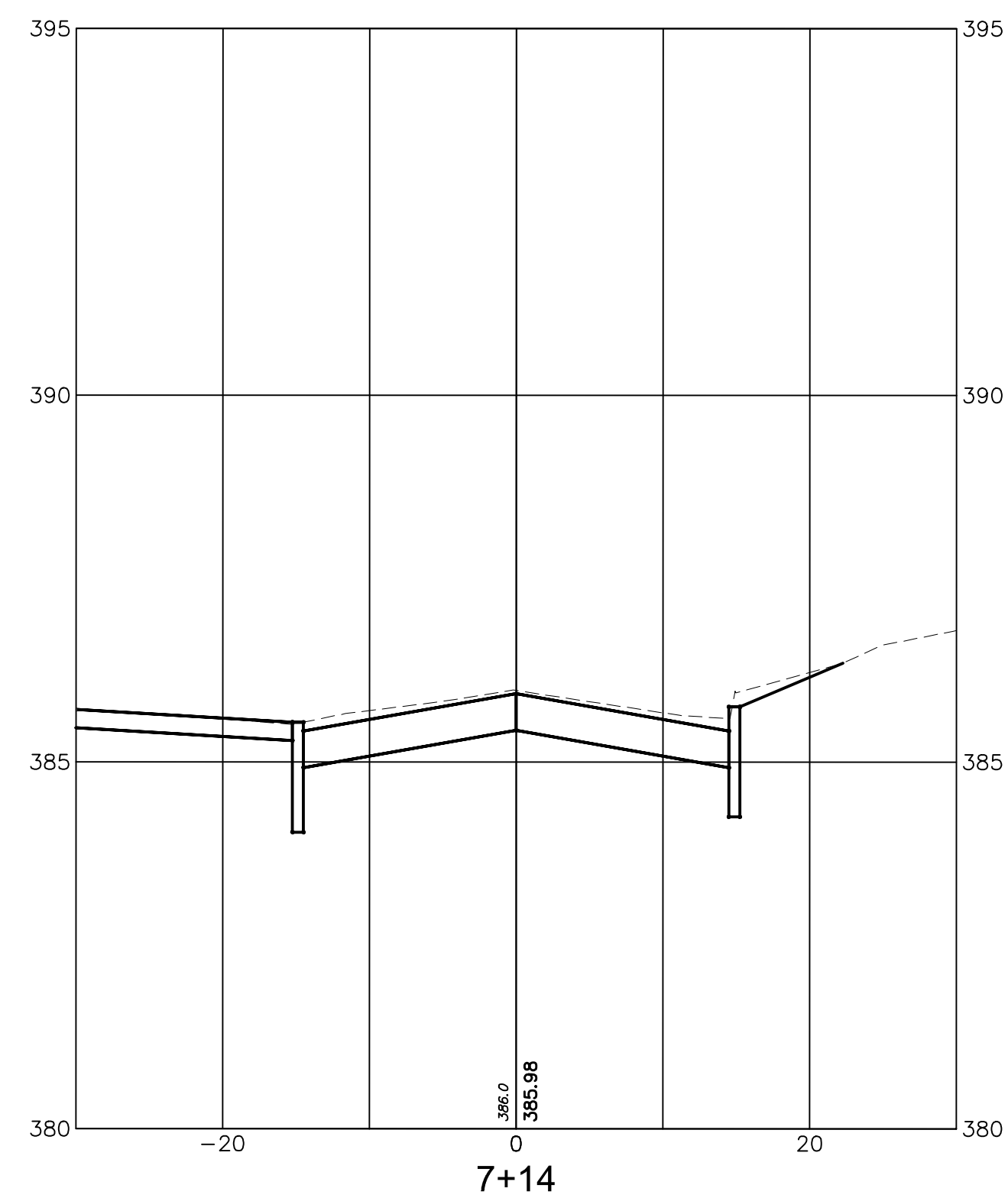
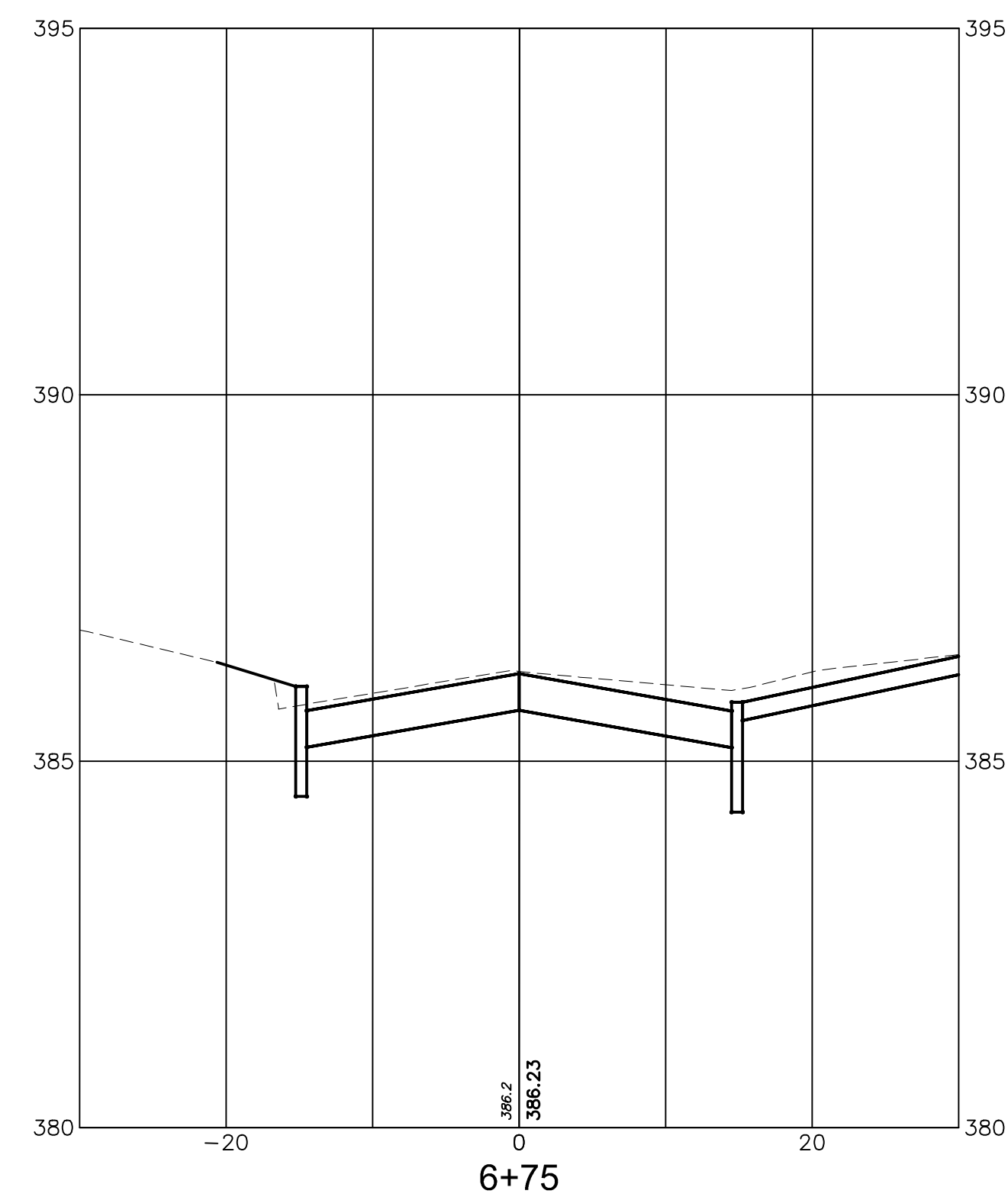
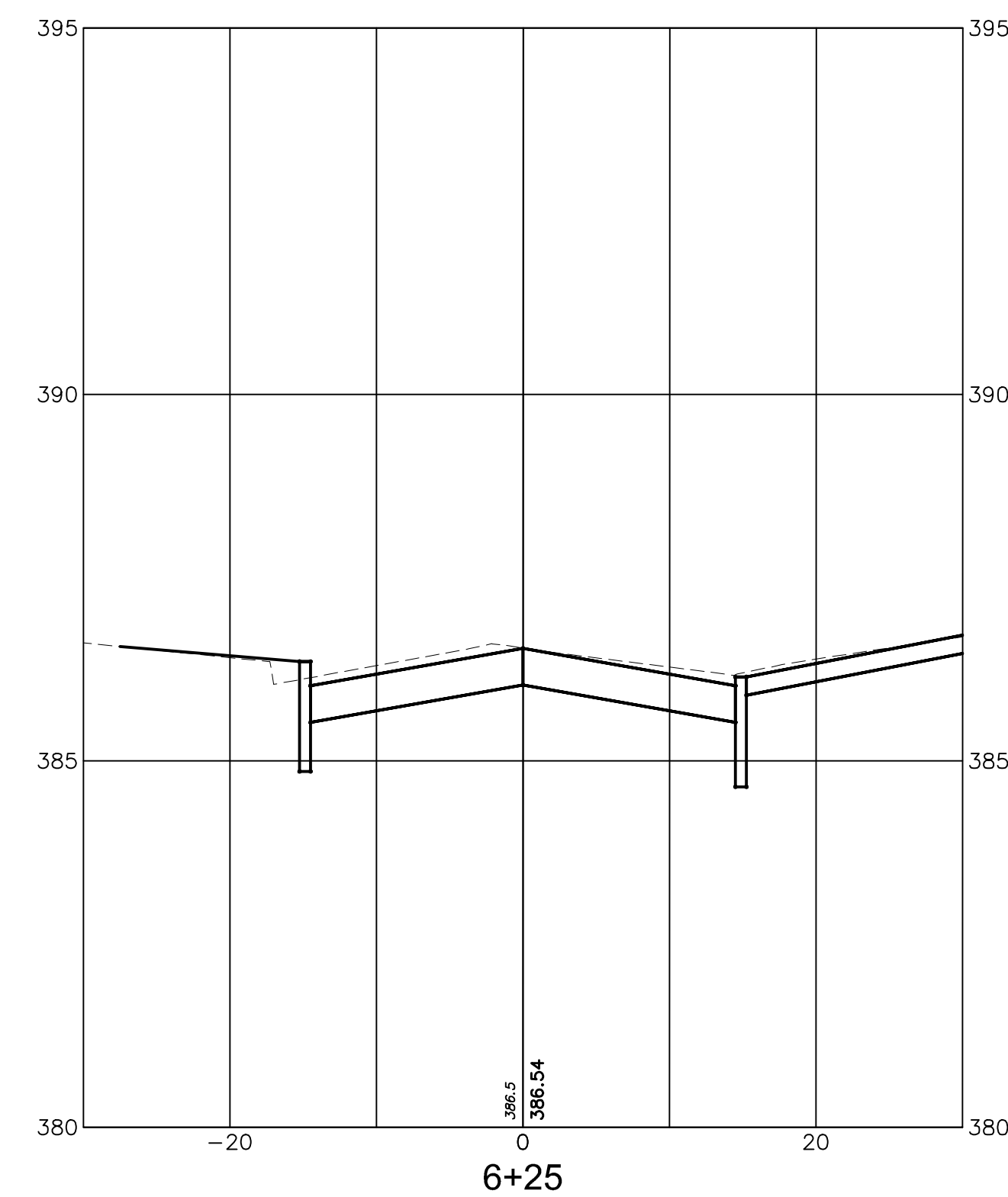
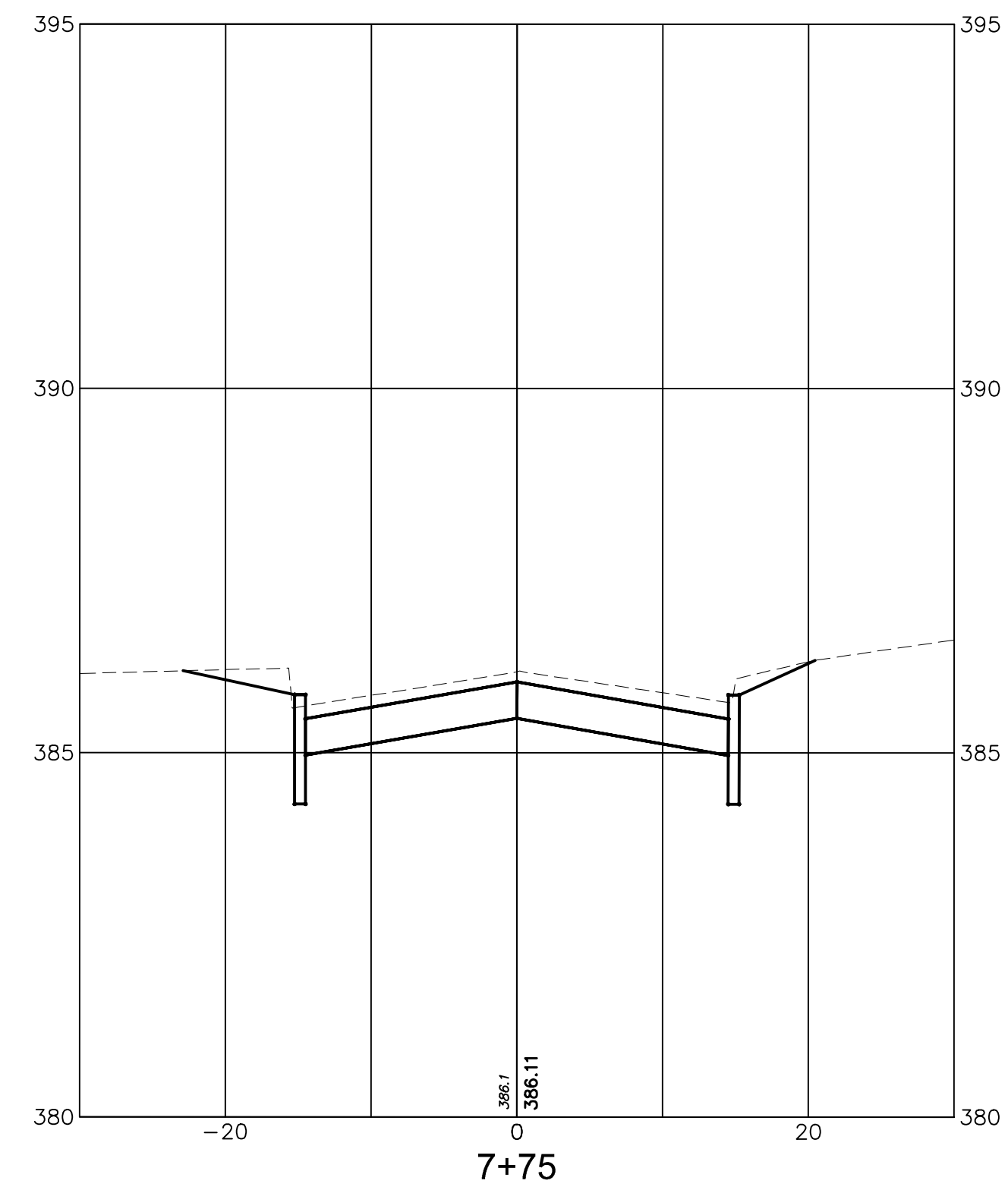
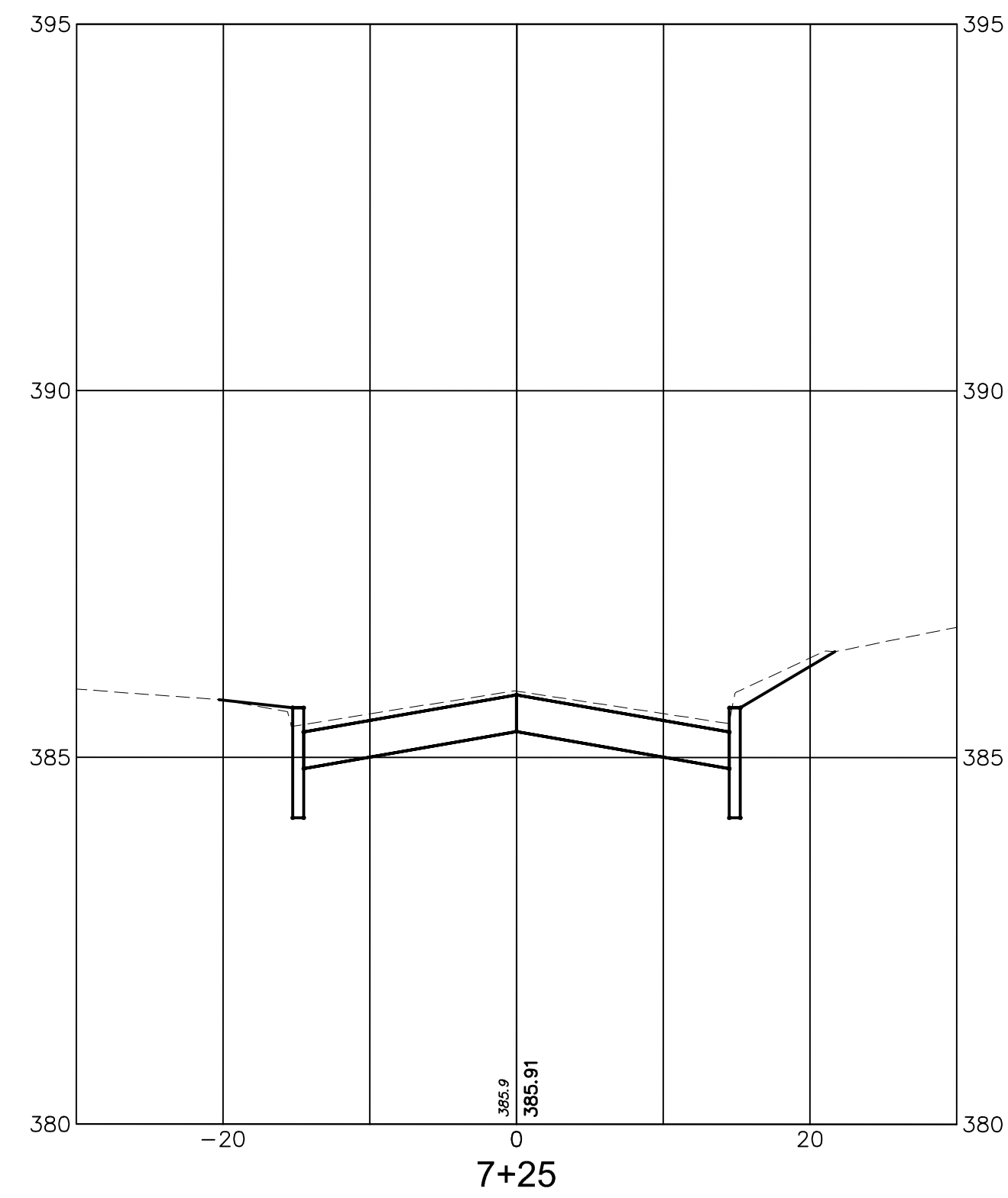
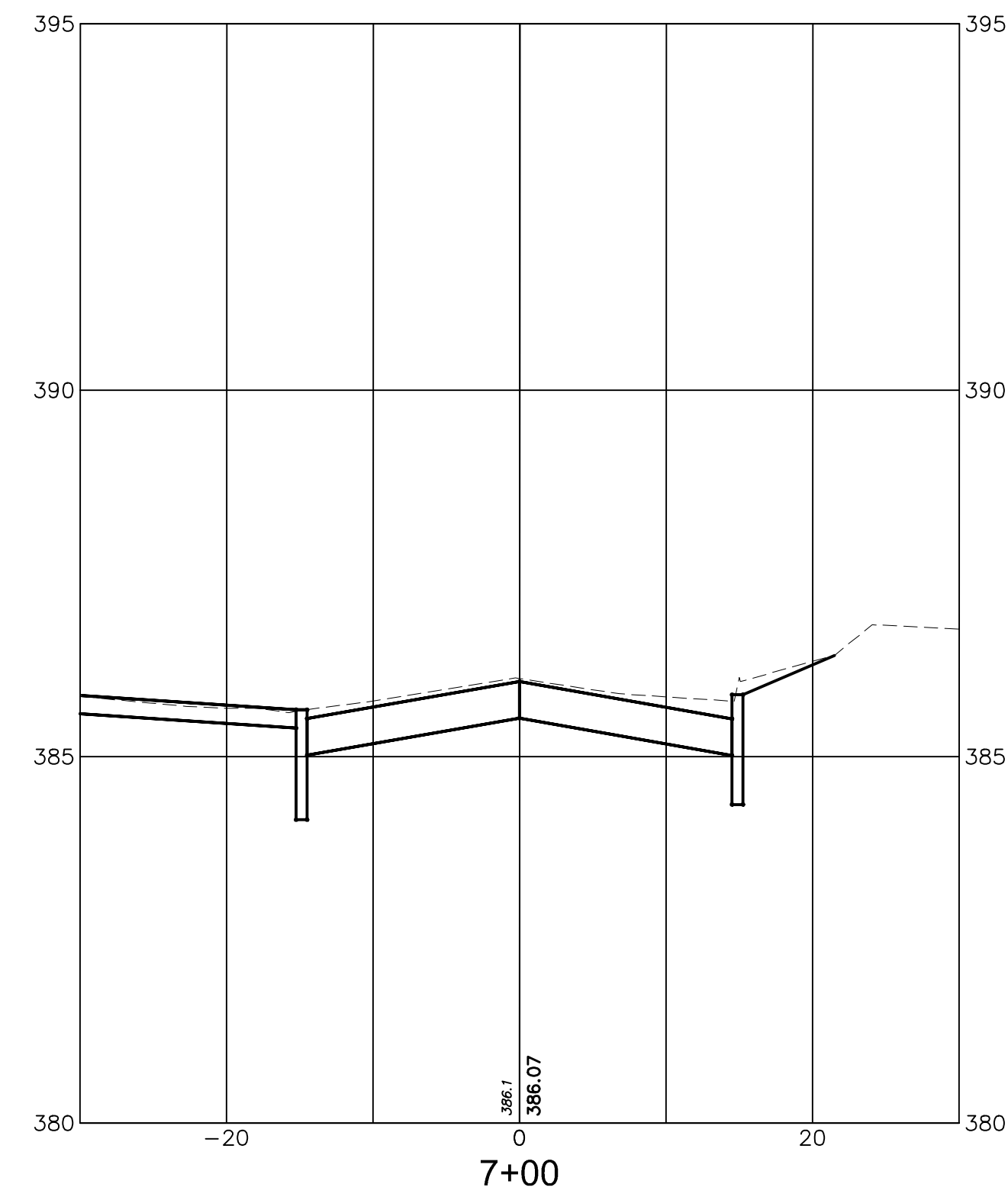
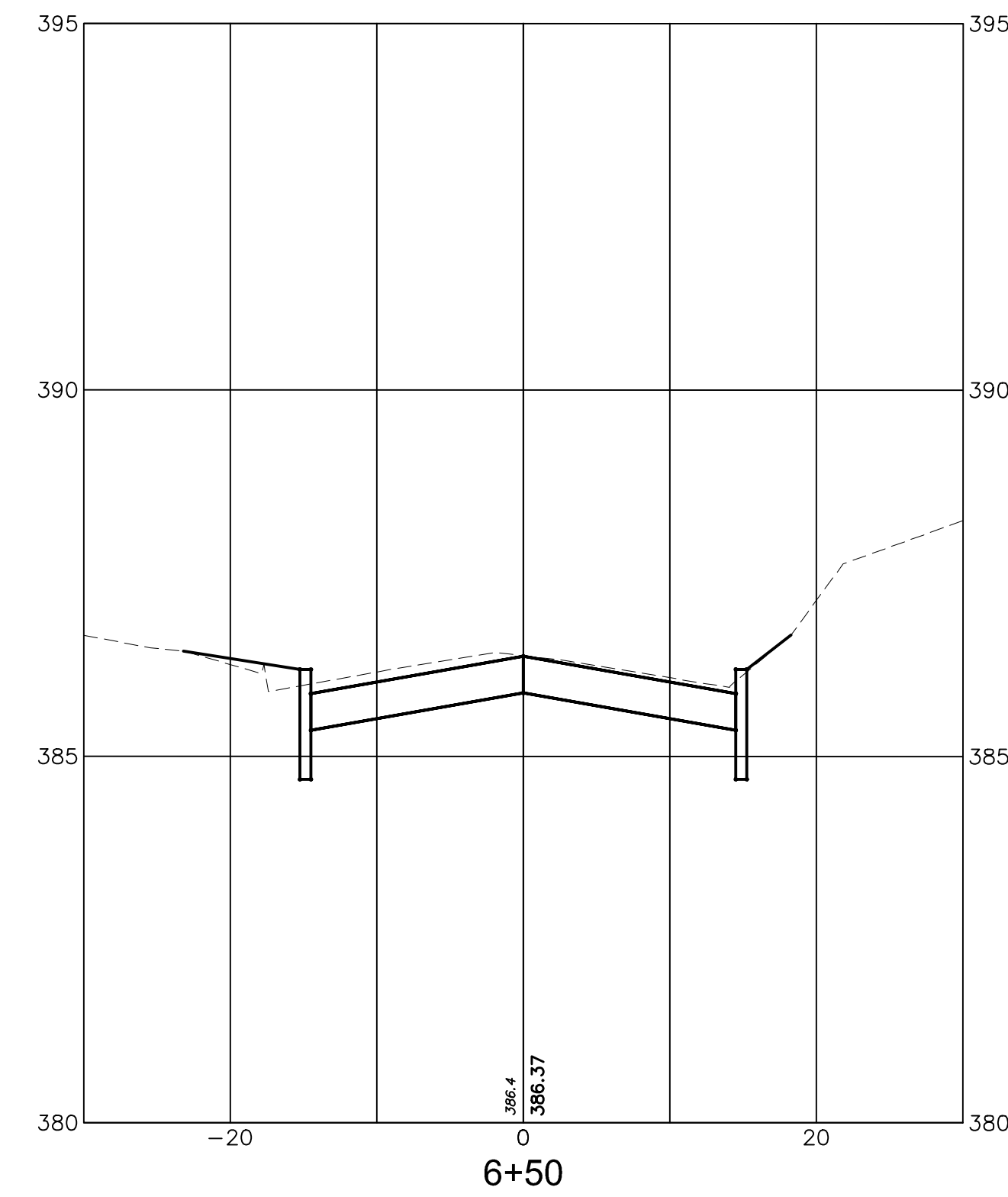
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Highway Design
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Water / Wastewater
Municipal Engineering
Land Surveying
Professional Planning
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NJ LLC CERT. NO. 246A28132300

CROSS SECTIONS
OF
PINE TREE LAKE
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

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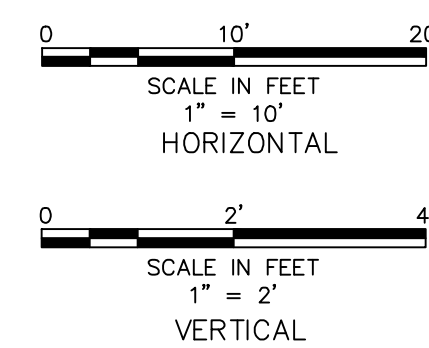
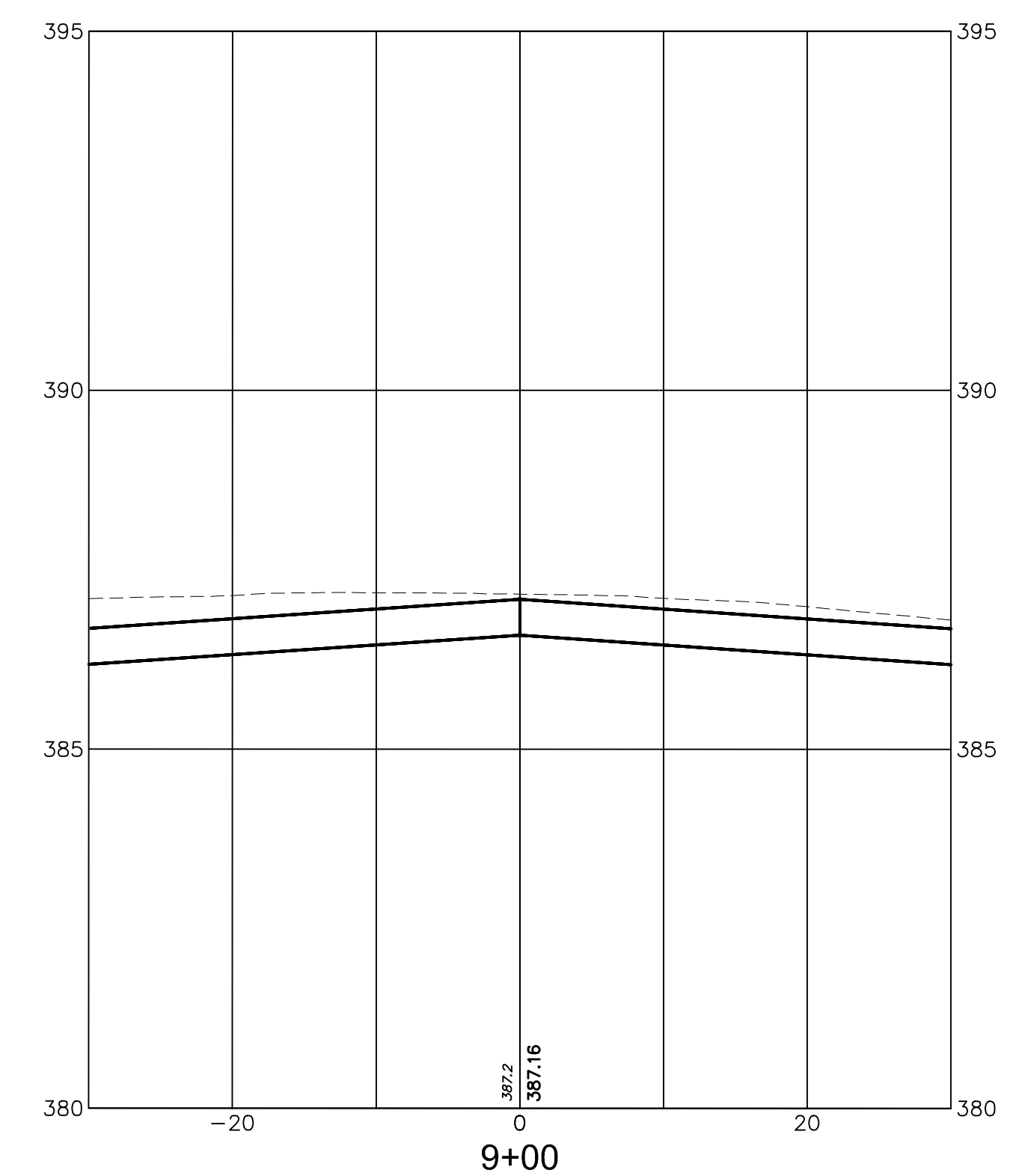
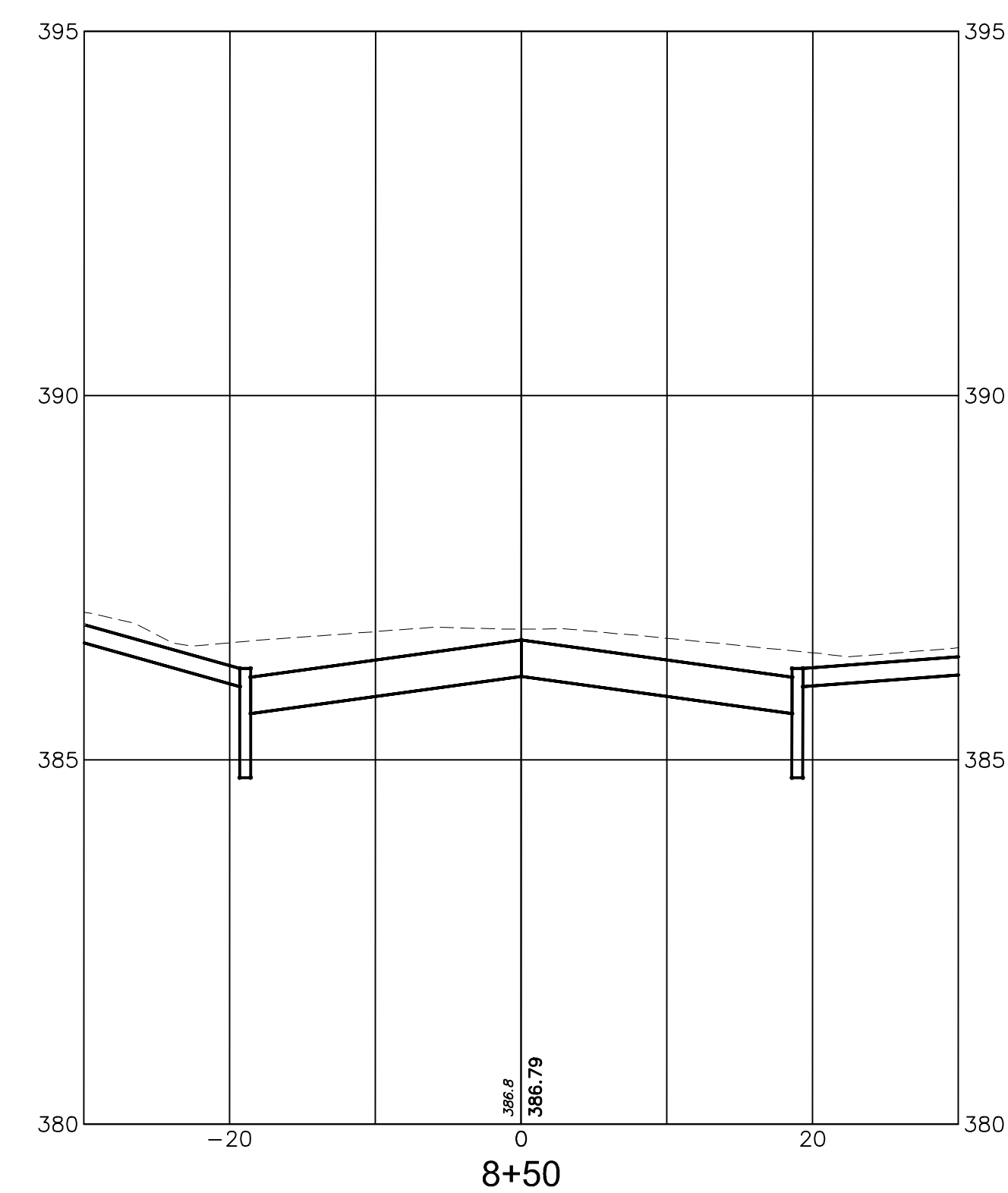
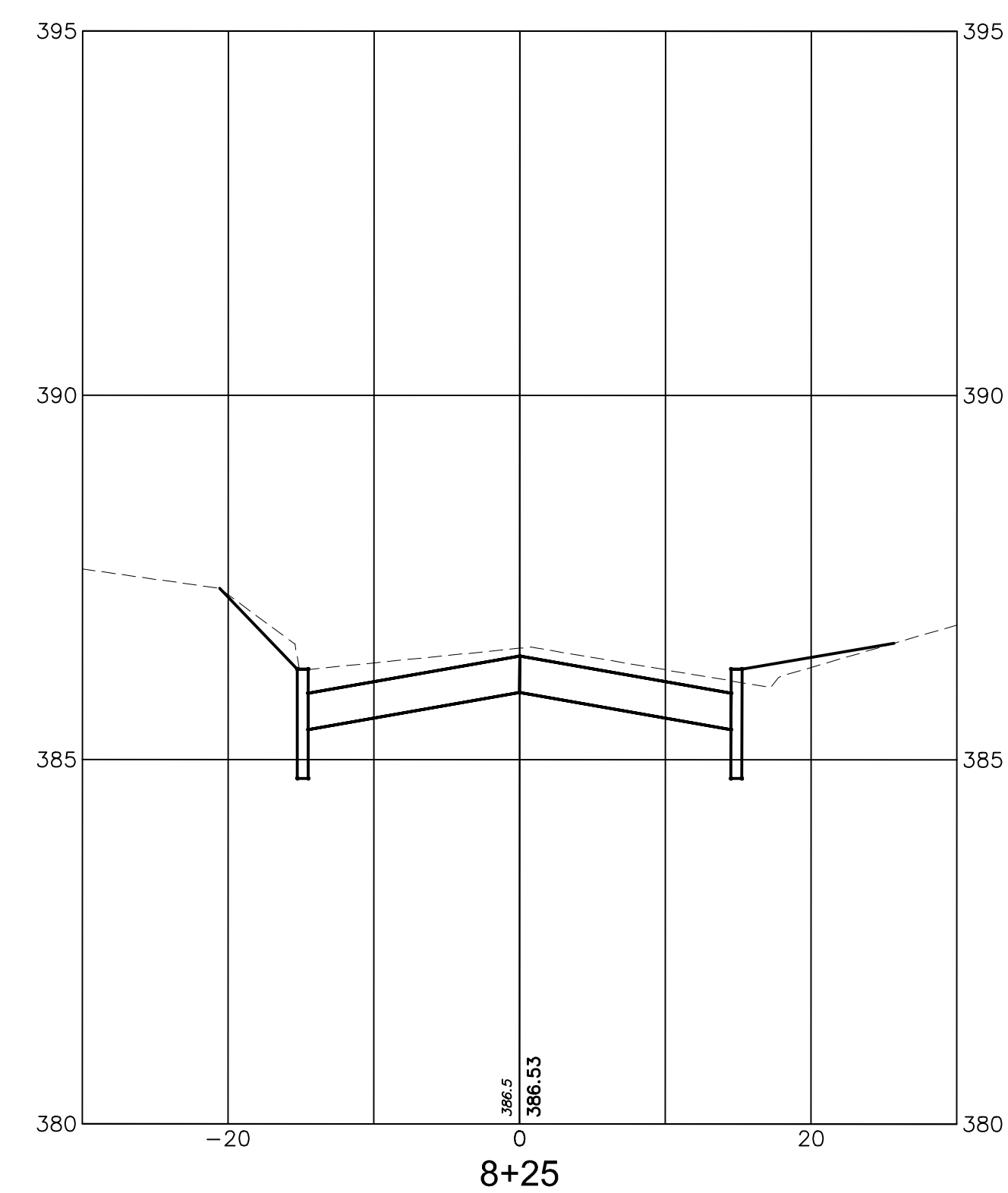
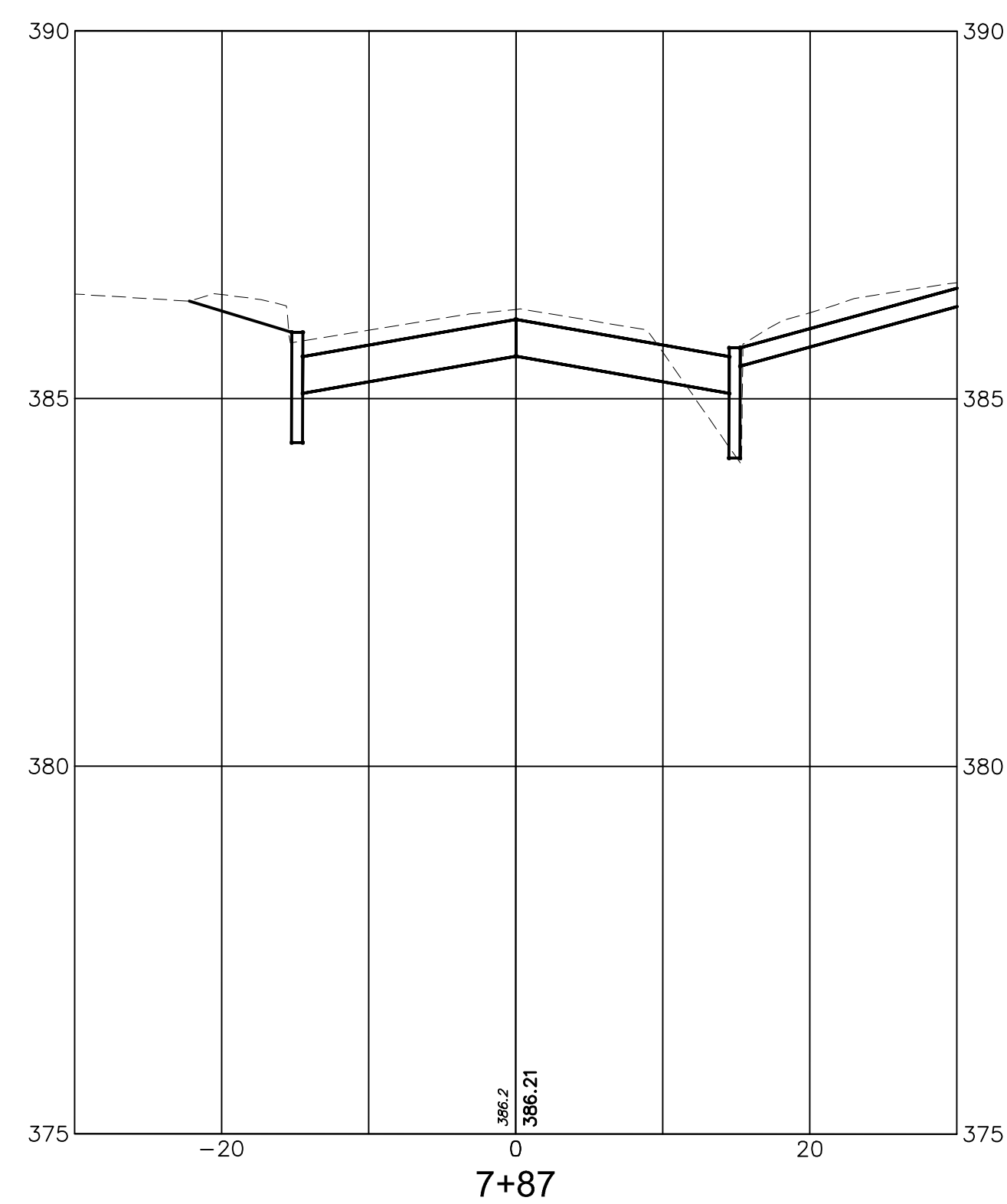
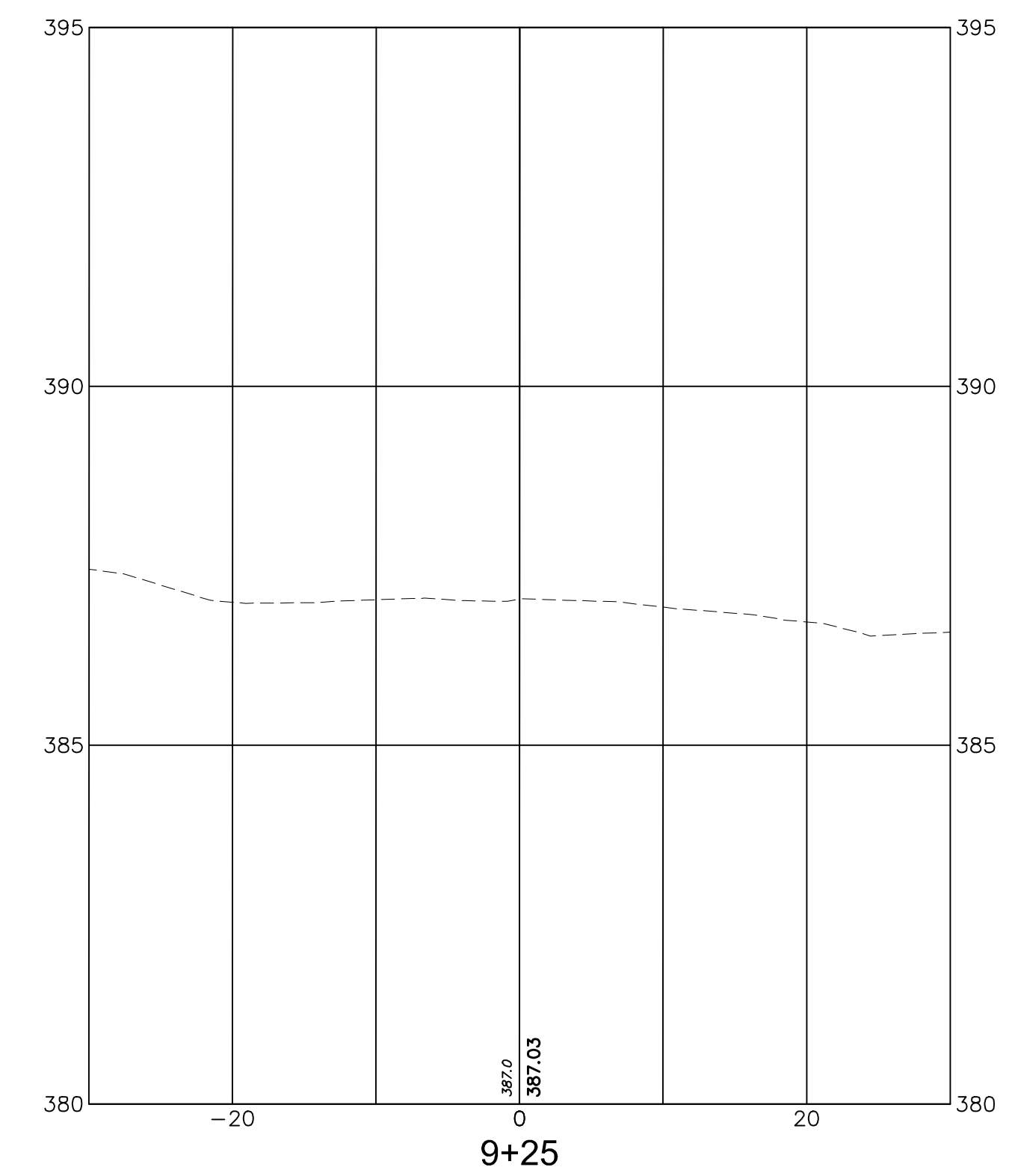
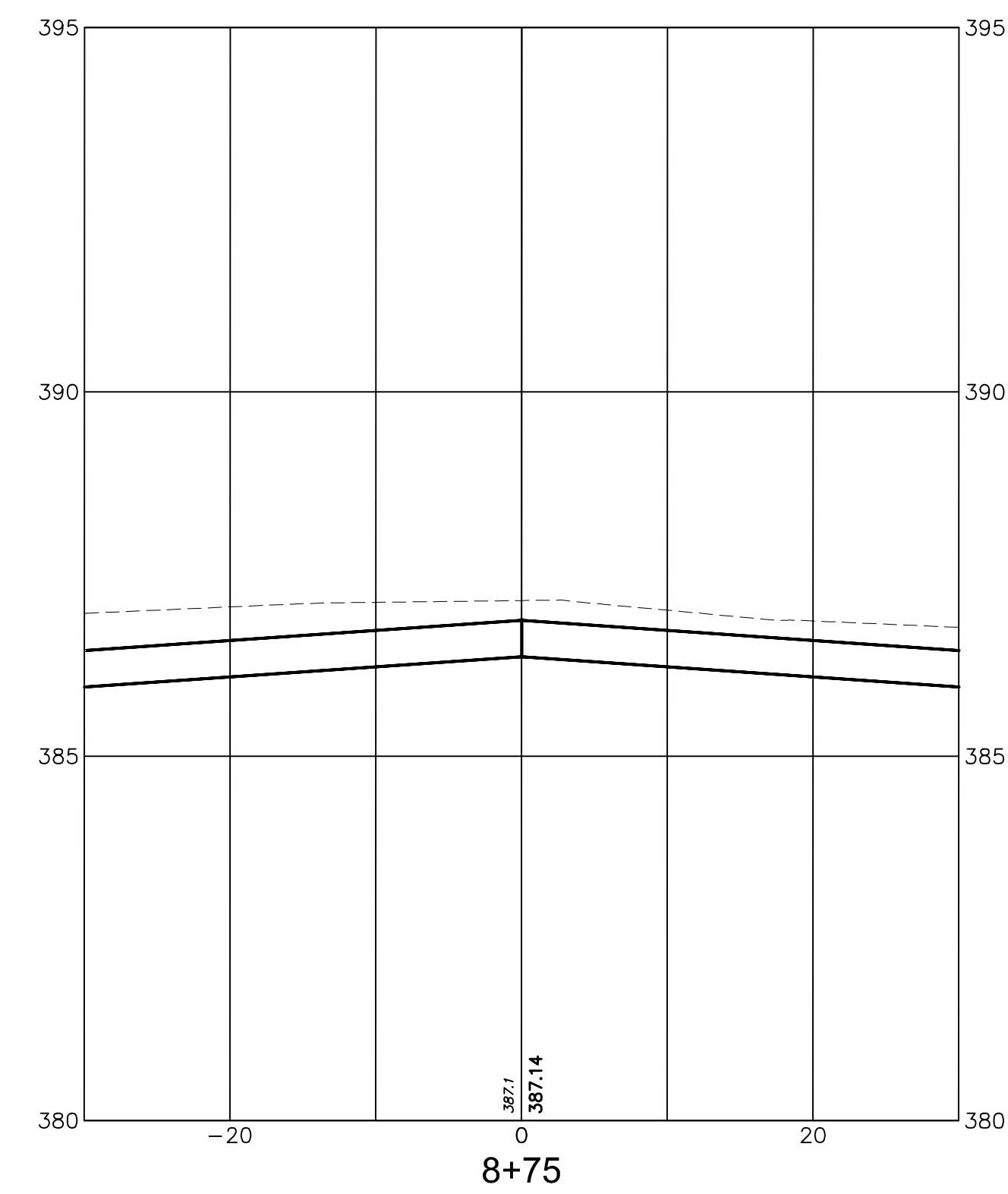
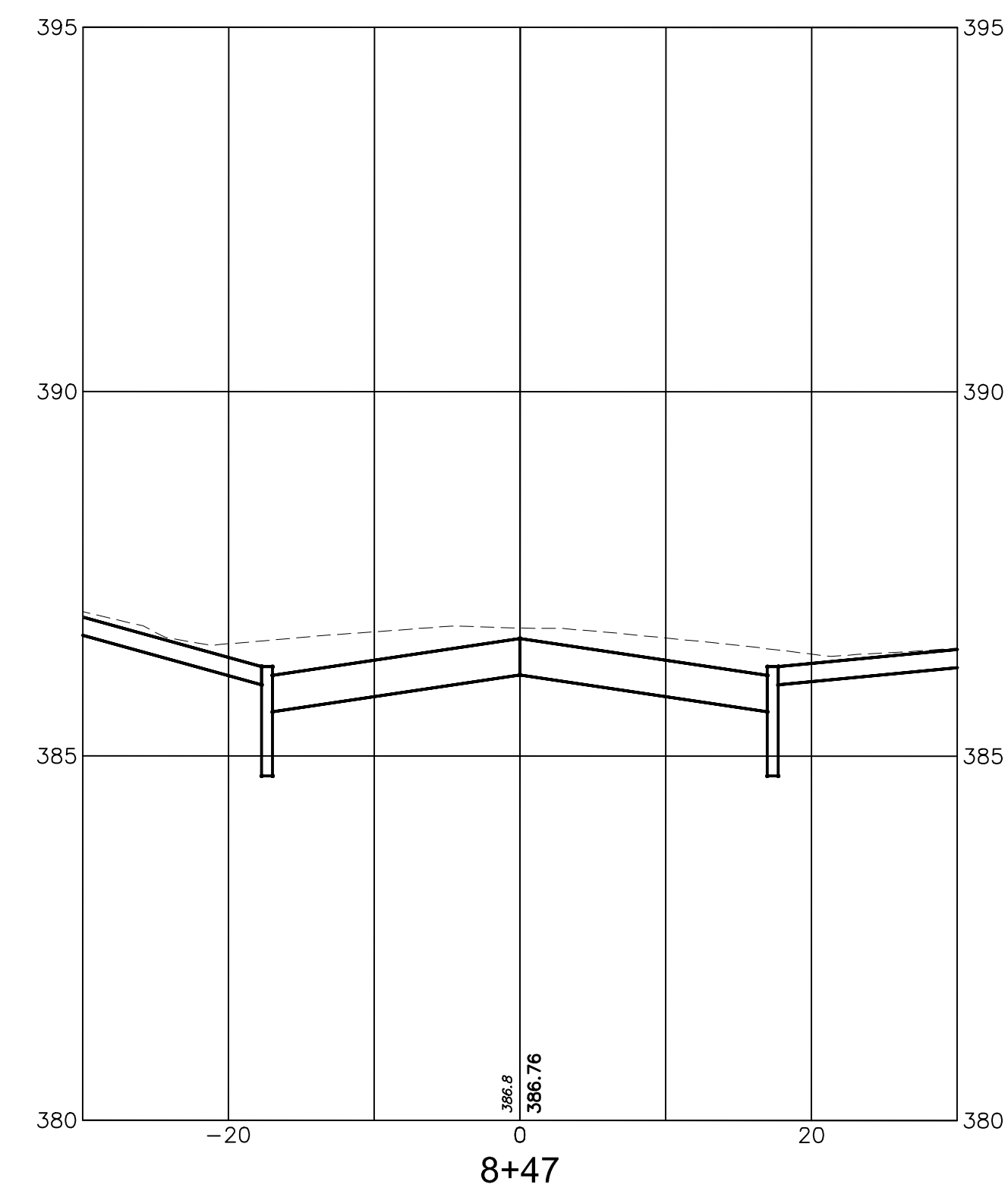
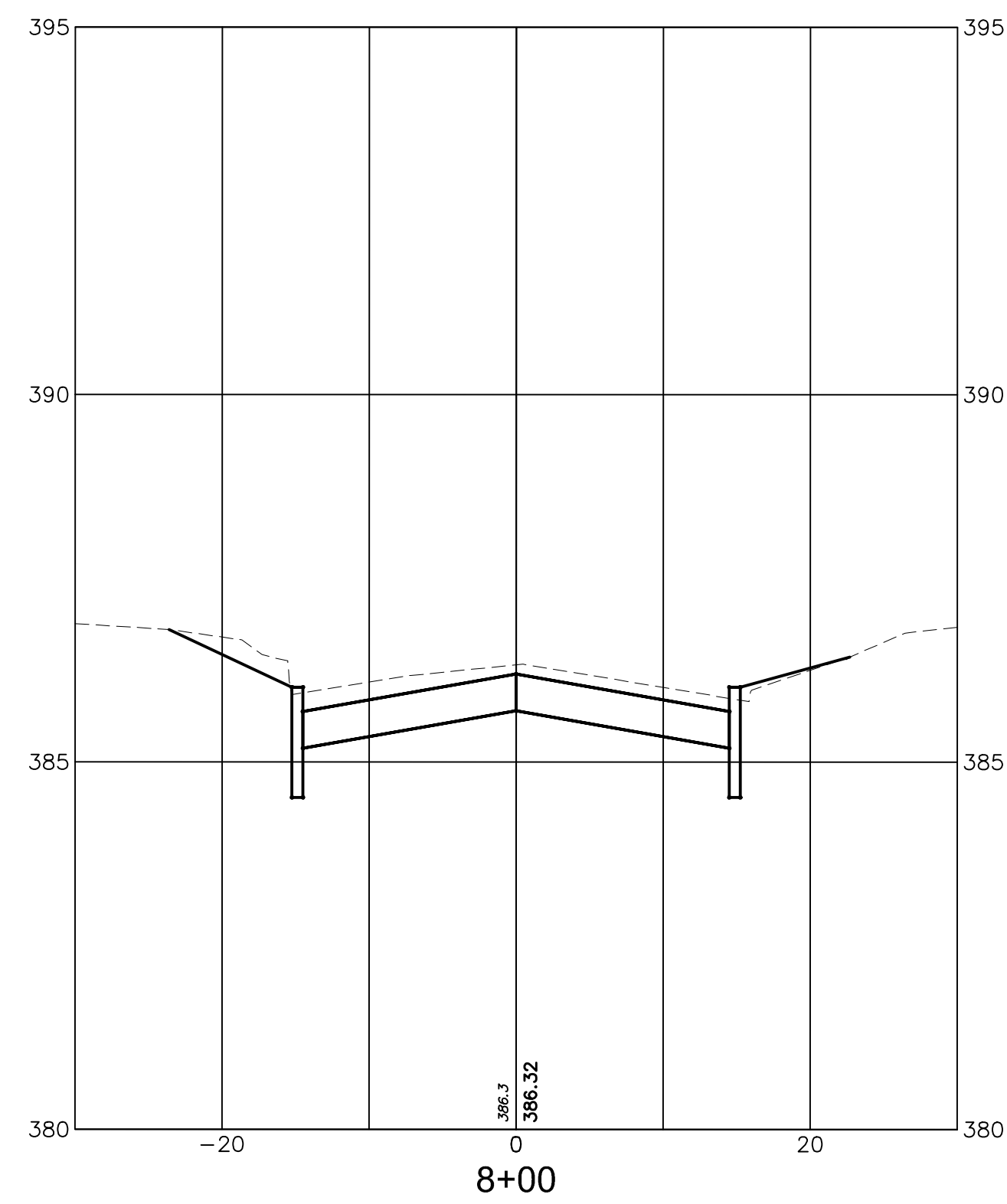


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			DRAWN BY: JTB
			CHECKED BY: SJS
REVISIONS	AUTH.	DATE	JOB NO. 2004MFR

Stanley J. Schrek, P.E.

Professional Engineer, New Jersey Lic. No. GE-28275

 Van Cleef ENGINEERING ASSOCIATES, LLC	755 MEMORIAL PARKWAY, SUITE 110 PHILLIPSBURG, NJ 08865 EMAIL: CONTACTUS@VANCLEEFENGINEERING.COM WEB: WWW.VANCLEEFENGINEERING.COM PHONE (908) 454-3080 FAX (908) 454-1307	Consulting Civil Engineering Bridge Design Highway Design Construction Inspection Geotechnical Engineering Water / Wastewater Municipal Engineering Land Surveying Professional Planning Landscape Architecture
With Offices In: New Jersey, Pennsylvania & Delaware		NJ LIC. CERT. NO. 24C0A28132300

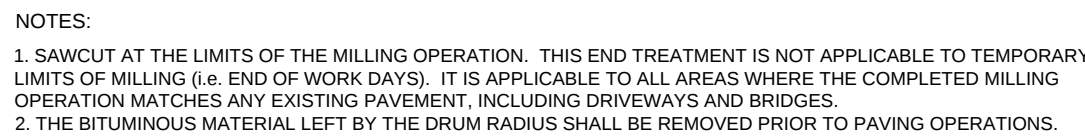
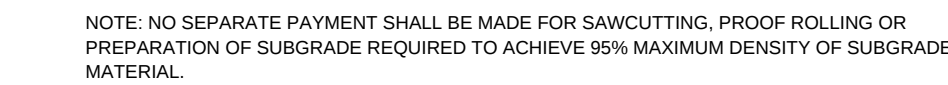


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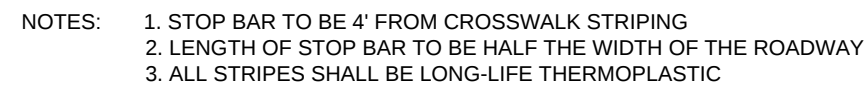
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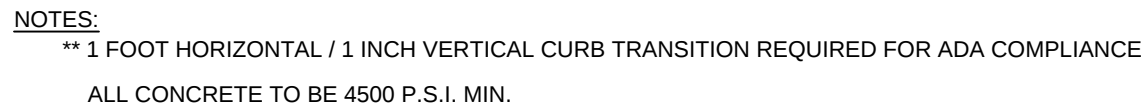
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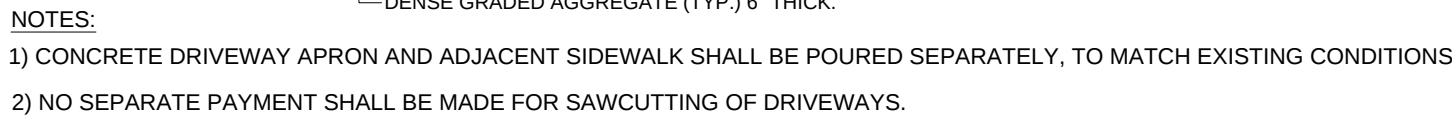
END TREATMENT FOR MILLING OPERATIONS
N.T.S.



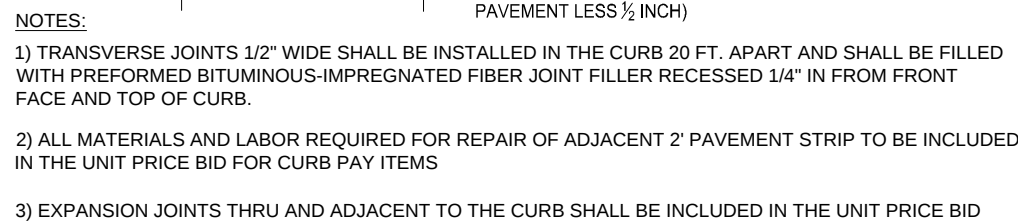
STOP BAR / CROSSWALK STRIPING
N.T.S.



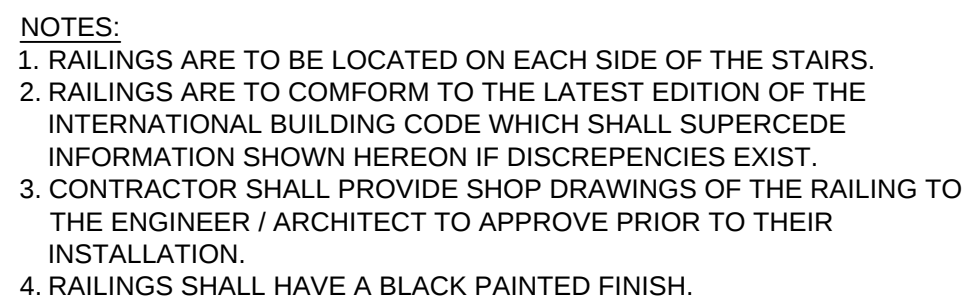
DEPRESSED CURB - ELEVATION



CONCRETE APRON, REINFORCED, 6" THICK
N.T.S.

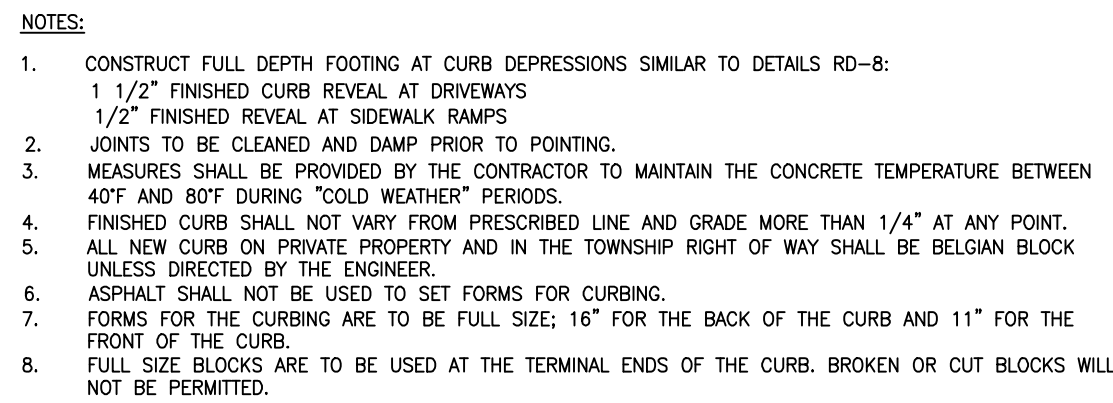


9"x18" CONCRETE VERTICAL CURB
(IF & WHERE DIRECTED)
N.T.S.

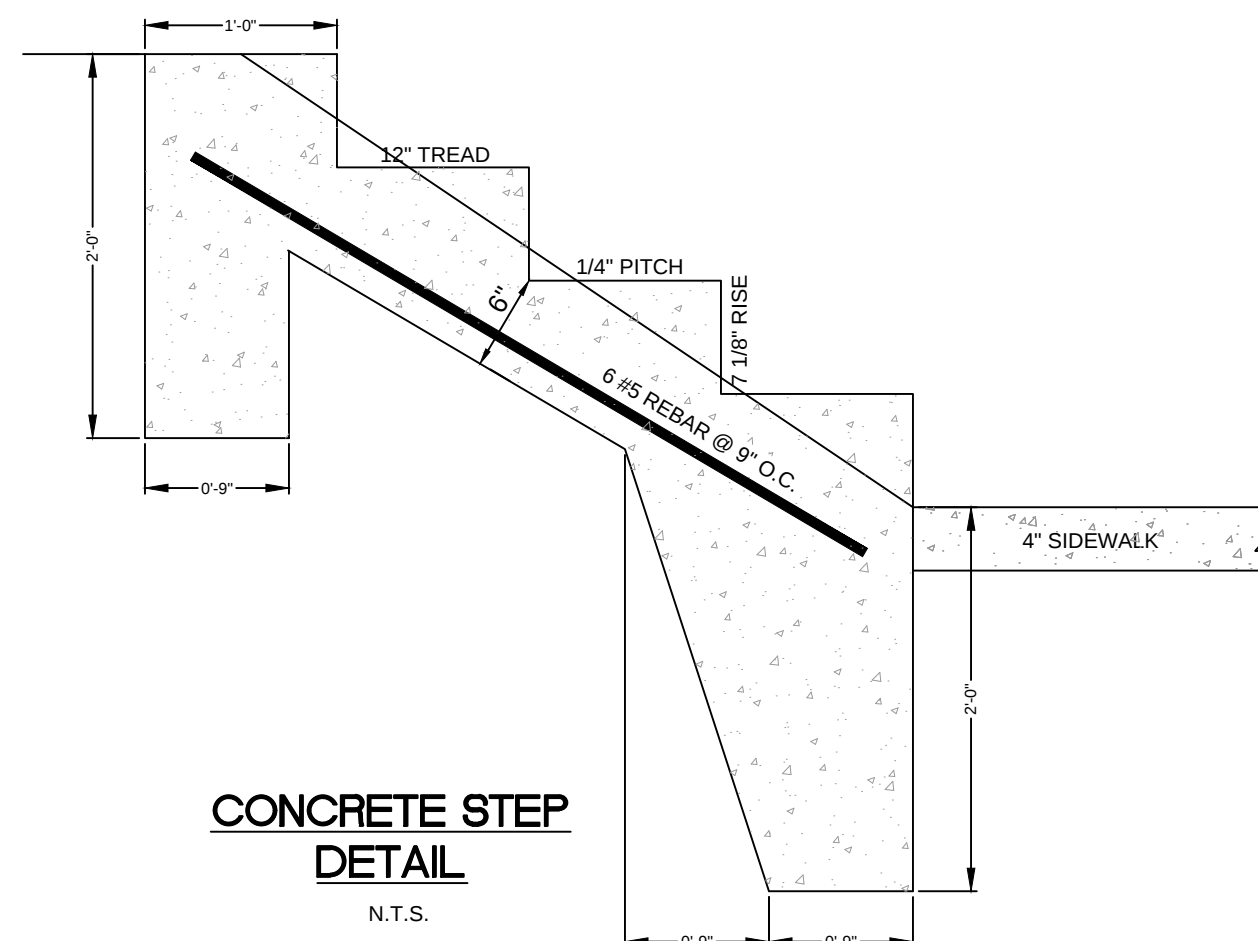


HANDRAIL DETAIL

NOT TO SCALE



GRANITE BLOCK CURB
Not to Scale



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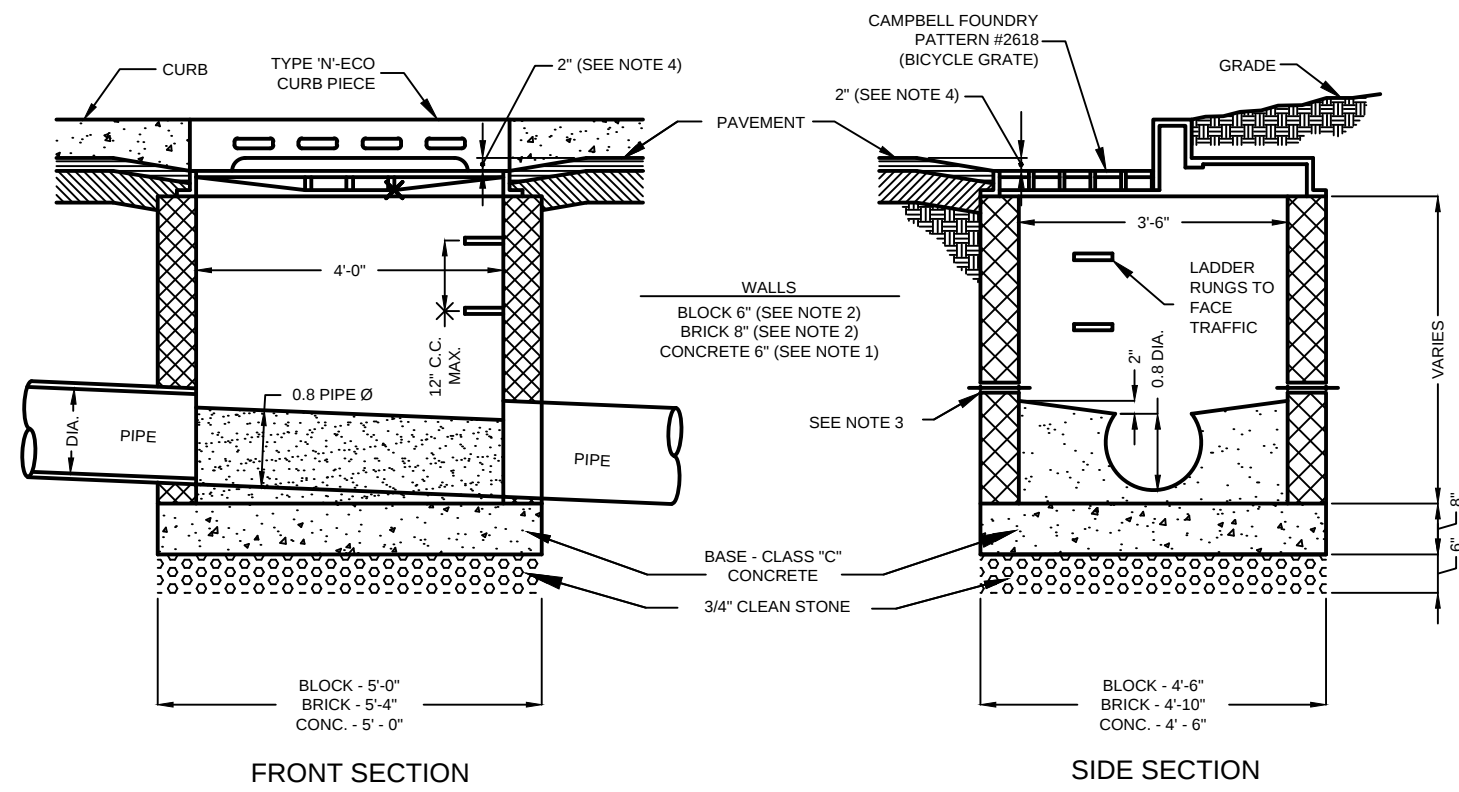
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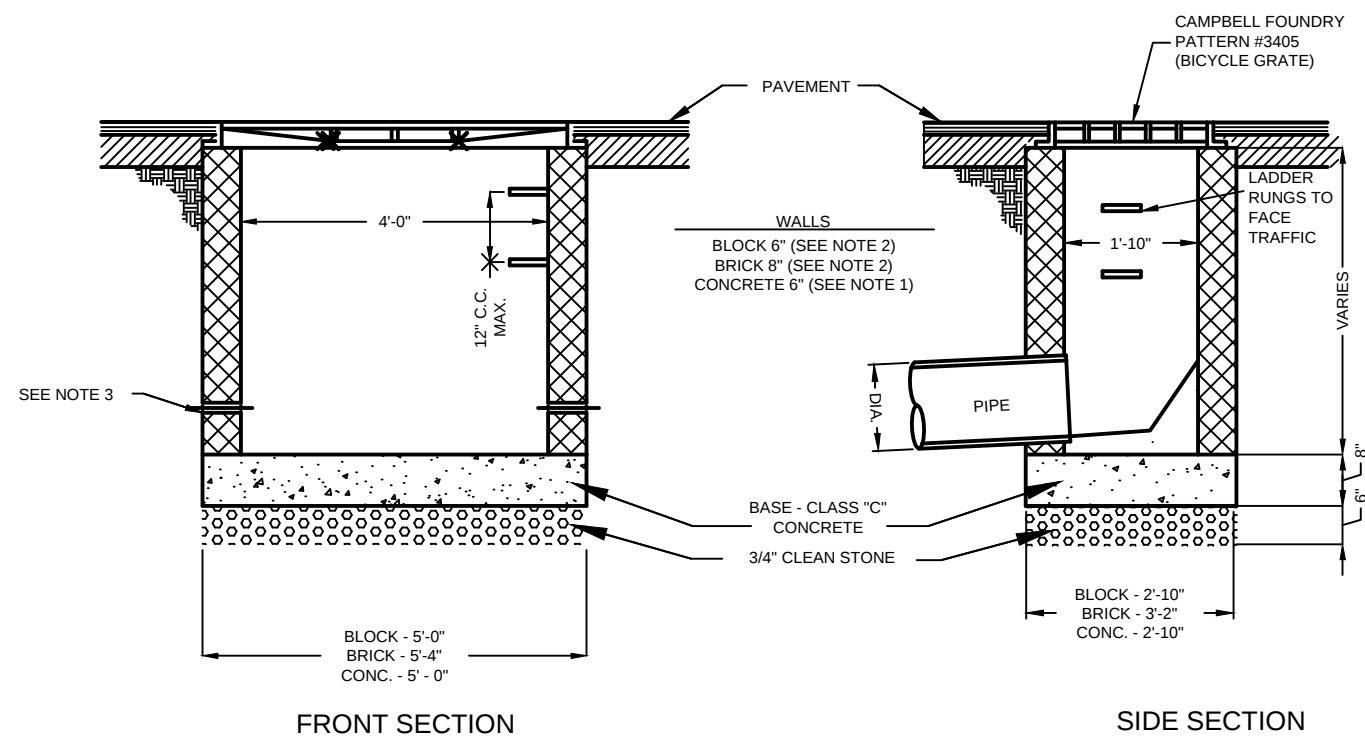
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CONSTRUCTION DETAILS
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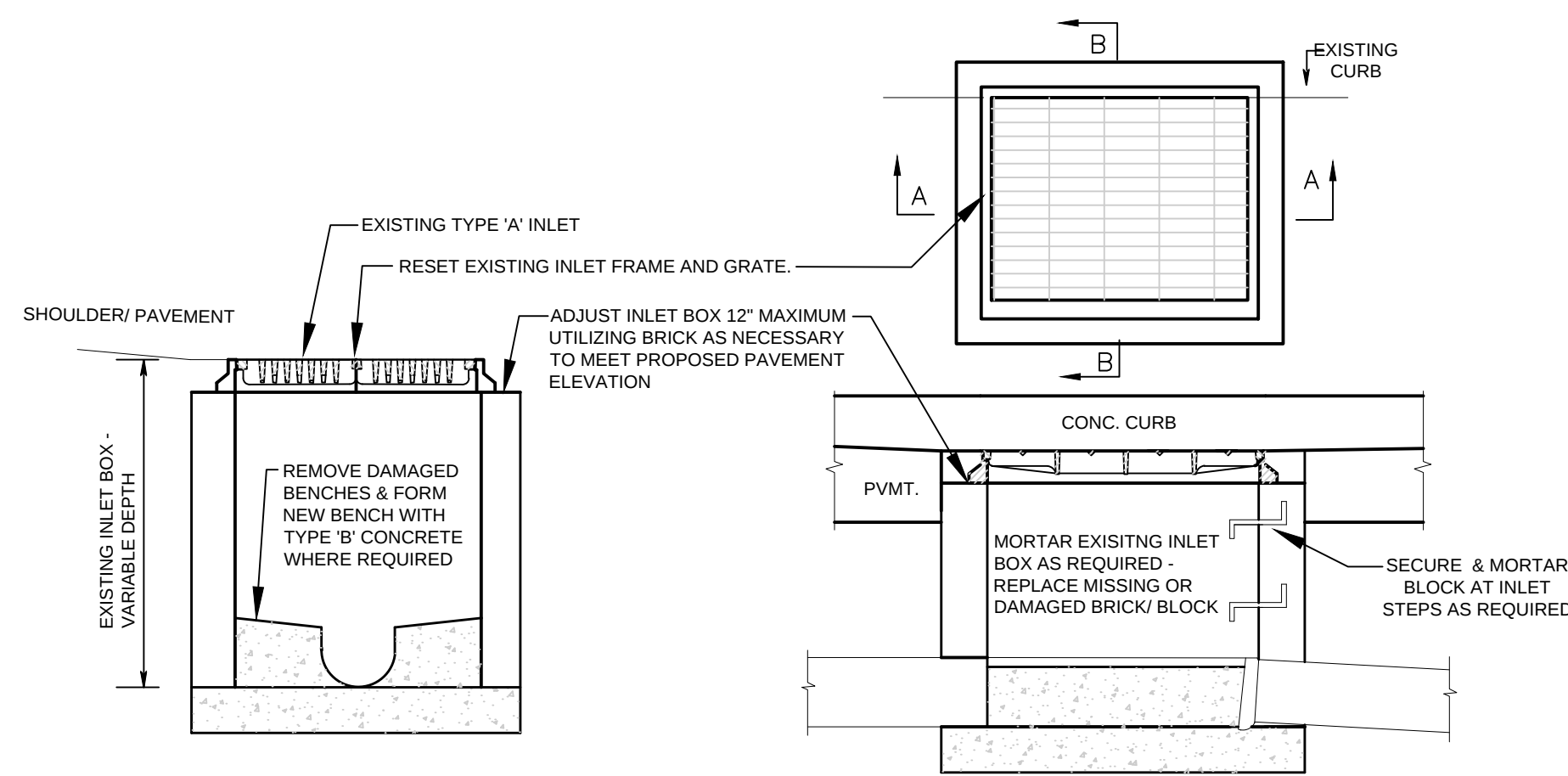
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TYPE 'B' INLET DETAIL
NOT TO SCALE



TYPE 'A' INLET DETAIL
NOT TO SCALE

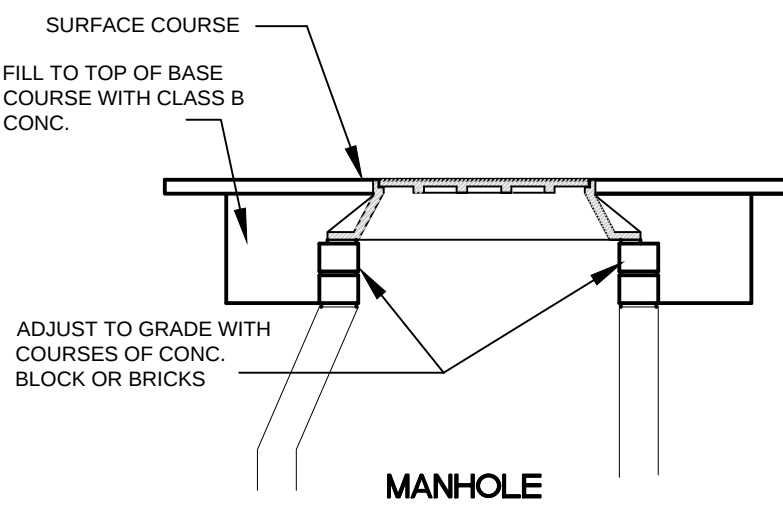


SECTION A-A (STANDARD MANHOLE DIMS)

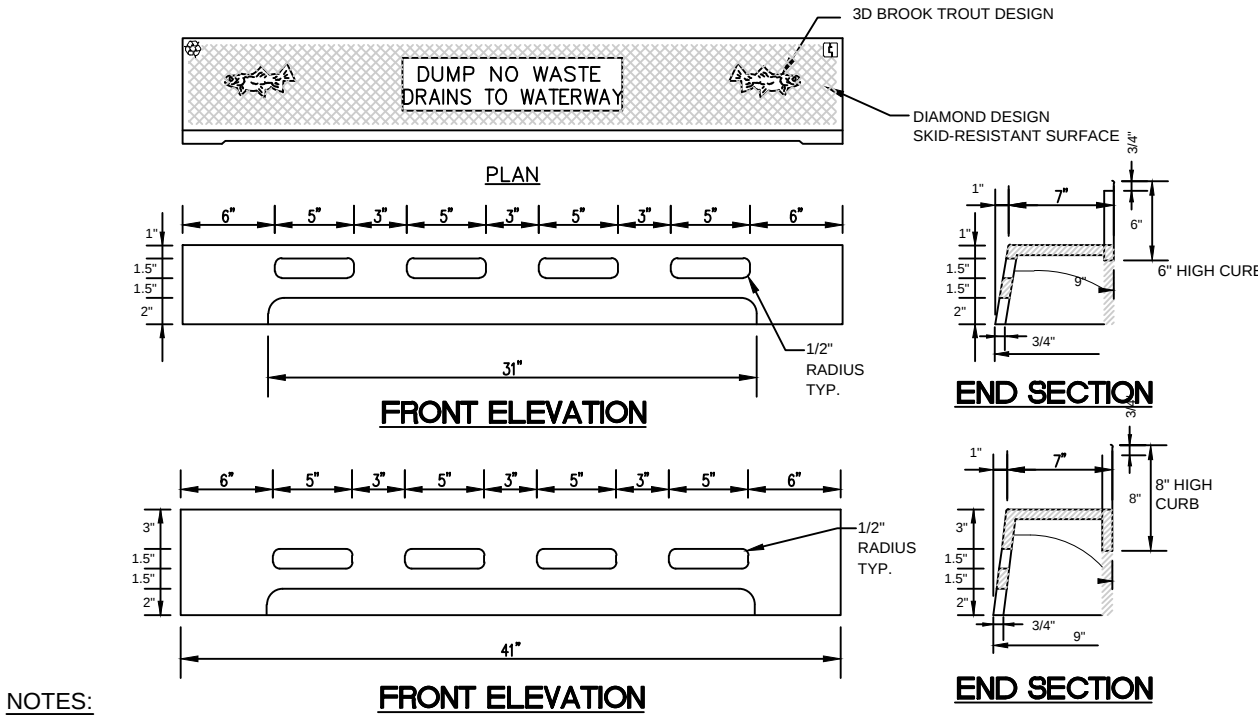
NOTE:

- MANHOLE FRAME AND COVER SHALL CONFORM TO THE FOLLOWING:
A) PATTERN 1202B AS MANUFACTURED BY CAMPBELL FOUNDRY, HARRISON, NJ (973)463-5400.
B) PATTERN R-1560 AS MANUFACTURED BY NEENAH FOUNDRY, NEENAH, WI (800)558-5075.
C) PATTERN 1090 AS MANUFACTURED BY EAST JORDON IRON WORKS, EAST JORDAN, MI (800)874-4100
D) OR APPROVED EQUAL.

MANHOLE FRAME AND COVER



REMOVE AND REPLACE MANHOLE FRAME AND COVER DETAIL N.T.S.



NOTES:

- MATERIAL: GRAY CAST IRON ASTM A48-83, CLASS 30B, WITHOUT SURFACE COATING
- IN RETROFIT SITUATIONS THIS CURB PIECE (HEAD) WILL FIT EXISTING CAMPBELL FOUNDRY CO. MANUFACTURED CURB INLETS FOR NJDOT TYPES B, B-1, B-2, D, D-1, AND D-2
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE ADJACENT CURB HEIGHT, TOP OF CURB PIECE TO MATCH EXISTING CURB ADJACENT TO STRUCTURE. CURB HEIGHT MAY BE REDUCED IN VICINITY OF ADA RAMPS. A 4" CURB PIECE WITHOUT OPENINGS MAY BE UTILIZED WHEN APPROVED BY THE BOROUGH ENGINEER FOR MODIFICATION IN THE VICINITY OF ADA RAMPS.

TYPE N-ECO HEAD CURB PIECE N.T.S.

INLET GENERAL NOTES:

- INLETS MAY BE CONSTRUCTED OF BRICK, CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE. BRICK WALLS SHALL BE 8" THICK, CONCRETE, BLOCK OR PRECAST WALLS 8" THICK. INLET FOUNDATIONS AND INVERTS SHALL BE CLASS B CONCRETE.
- CORRELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF 1/2" PER 8" OF HEIGHT; MAXIMUM CORBEL 6" PER WALL.
- EXCEPT FOR INLETS TYPE A AND C, FOUNDATIONS AND INVERTS SHALL BE CONSTRUCTED IN TWO STAGES, AND THE BOTTOM OF THE FOOTINGS SHALL BE 8" BELOW THE OUTER WALL OF THE LOWEST PIPE IN THE INLET.
- WHEN THE DEPTH OF AN INLET THAT IS NOT PRECAST EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8 FEET SHALL BE 12" THICK AND THE DEPTH OF FOUNDATION INCREASED TO 12". WHEN ROCK IS ENCOUNTERED THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
- INLET FOUNDATIONS WHICH ARE PRECAST SHALL BE PLACED ON A 6" THICK BED OF COMPACTED COARSE AGGREGATE SIZE NO. 57. THE COARSE AGGREGATE SHALL EXTEND 6" BEYOND THE HORIZONTAL LIMITS OF THE INLET FOUNDATION.
- CASTINGS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12" MAXIMUM.

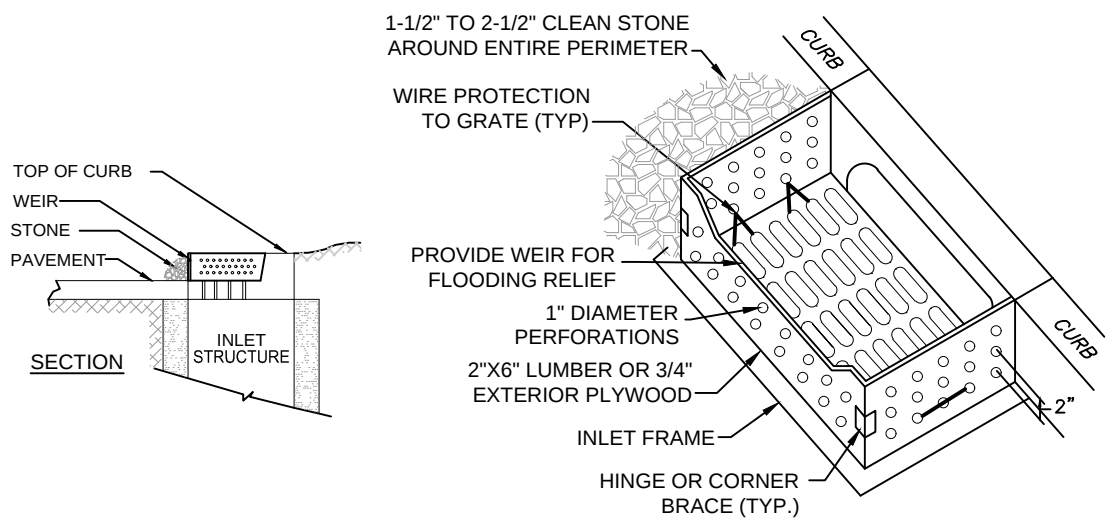
- WHEN THE DEPTH OF A PRECAST INLET EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, THE FOUNDATION SHALL BE INCREASED TO 12". WHEN ROCK IS ENCOUNTERED THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.

TRENCH EXCAVATION AND BACKFILL NOTES

- DETERMINE THE MAXIMUM DRY DENSITIES IN ACCORDANCE WITH ASTM DESIGNATION D1557. PROVIDE THE FOLLOWING MINIMUM PERCENTAGES OF COMPACTION IN THE VARIOUS ZONES:

PIPE MATERIAL	LOCATION	INITIAL COMPACTION
SURFACE ZONE	ALL	95%
TRENCH BACKFILL ZONE	ALL	90%
PIPE EMBEDMENT ZONE	ALL	95%

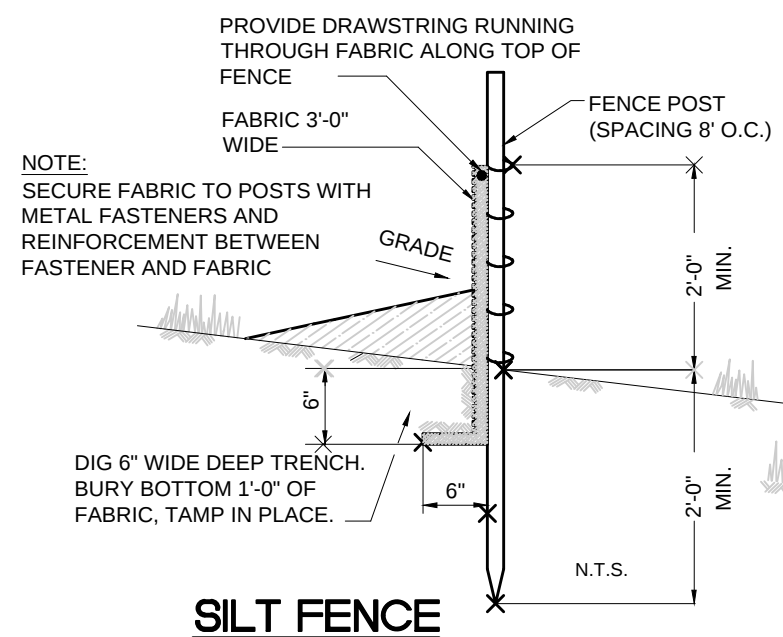
THE MINIMUM COMPACTION IN EMBANKMENTS SHALL BE 90%
- DO NOT EXCEED THE PIPE EMBEDMENT ZONE WIDTH AND THE MAXIMUM TRENCH WIDTHS NOTED. WHEN THE PERMISSIBLE WIDTH IS EXCEEDED, INSTALL THE PIPE WITH A HIGHER CLASS BEDDING THAN NOTED OR UTILIZE A PIPE WITH GREATER CRUSHING STRENGTH THAN THE SPECIFIED PIPE OR BOTH, TO ACHIEVE SUITABLE CONDITIONS.
- SUITABLE MATERIAL FROM EXCAVATION MUST BE FREE FROM OBJECTIONABLE QUANTITIES OF ORGANIC MATTER, CLAY, TREES, STUMPS, FROZEN MATERIAL, RUBBLE, CINDERS, ROCKS, AND OTHER MATERIALS CONSIDERED DELETERIOUS BY THE BOROUGH ENGINEER OR SRD PARTY GEOTECHNICAL ENGINEER. FINES PASSING THE NO. 200 SIEVE MUST NOT EXCEED 10 PERCENT. STONE OR GRAVEL LARGER THAN 2 INCHES MUST BE REMOVED PRIOR TO BACKFILL.
- THERE IS NO SEPARATE PAYMENT FOR PIPE EMBEDMENT, ALL ASSOCIATED COST IS INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS SANITARY AND STORM PIPE INSTALLATION.
- BACKFILL TRENCHES WITH DENSE GRADED AGGREGATE FROM THE EMBEDMENT ZONE TO THE BOTTOM OF THE ROADWAY COURSES. THERE IS NO SEPARATE PAYMENT FOR DENSE GRADED AGGREGATE, ALL ASSOCIATED COSTS ARE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS SANITARY AND STORM PIPE INSTALLATION.
- THE UNIT PRICES BID FOR PIPE OF VARIOUS SIZES AND MATERIALS INCLUDES ALL COSTS ASSOCIATED WITH INSTALLATION, EXCAVATION, BACKFILL, BEDDING, COMPACTION, PIPE LABOR, MATERIALS AND ALL OTHER INCIDENTALS.
- REFERENCE SECTION 601.03 OF THE NJDOT 2019 STANDARD SPECIFICATION FOR TRENCH EXCAVATION AND BACKFILL REQUIREMENTS RELATED TO STORM SEWER REPAIRS / REPLACEMENT.
- REFERENCE SECTION 652 OF THE NJDOT 2019 STANDARD SPECIFICATION FOR TRENCH EXCAVATION AND BACKFILL REQUIREMENTS RELATED TO SANITARY SEWER REPAIRS / REPLACEMENT.
- REFERENCE SECTION 909 OF THE NJDOT 2019 STANDARD SPECIFICATION FOR THE CLASSIFICATION OF PIPE BEDDING MATERIALS RELATED TO BOTH STORM AND SANITARY SEWER REPAIRS / REPLACEMENT.



NOTES:

- INLET PROTECTION SHALL SAFELY FILTER OUT SEDIMENT FROM THE 1 YEAR, 24-HOUR DESIGN STORM. THE STORM SEWER SYSTEM SHALL SAFELY CONVEY ALL FLOWS UP TO AND INCLUDING THE 25 YEAR DESIGN STORM.
- INLET PROTECTION SHALL BE INSPECTED PERIODICALLY THROUGHOUT CONSTRUCTION AND AFTER ALL STORM EVENTS. ACCUMULATED SILT SHALL BE REMOVED FROM AROUND THE INLET.
- FOR TYPE "A" AND "E" INLETS, PROVIDE SECOND WEIR PANEL ALONG FOURTH EDGE
- INLET PROTECTION IN ACCORDANCE WITH NJDOT SPEC TO BE INSTALLED AT ALL INLETS WITHIN THE PROJECT LIMITS.

INLET PROTECTION DETAIL N.T.S.



SILT FENCE

STABILIZATION SCHEDULE

- TEMPORARY SEEDING SHALL CONSIST OF SPRING OATS APPLIED AT A RATE OF 2.0 LBS. PER 1,000 S.F. OR WINTER CEREAL RYE APPLIED AT A RATE OF 2.0 LBS. PER 1,000 S.F. TEMPORARY SEEDING TO BE MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING. IF ANY SERIOUS EROSION PROBLEM OCCURS, THE ERODED AREAS SHALL BE REPAIRED AND STABILIZED WITH A MULCH AS INDICATED IN NOTE 5.
- PERMANENT STABILIZATION SHALL CONSIST OF SOD.
- FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE 10-20-20 APPLIED AT A RATE OF 14 LBS. PER 1,000 S.F. OR AS DETERMINED BY SOIL TEST. LIMESTONE FOR TEMPORARY SEEDING SHALL BE APPLIED AT A RATE OF 90 LBS. PER 1,000 S.F., LIMESTONE FOR PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF 135 LBS. PER 1,000 S.F..
- IF THE TIME OF YEAR PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT STABILIZATION, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 5.
- MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH SHALL CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER, LIQUID MULCH BINDER, OR AN APPROVED EQUAL AT A RATE OF 70-90 LBS. PER 1,000 S.F.
- WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
- INSPECT TOPSOIL JUST BEFORE SODDING. IF TRAFFIC HAS LEFT SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

		DATE:	JANUARY 2022
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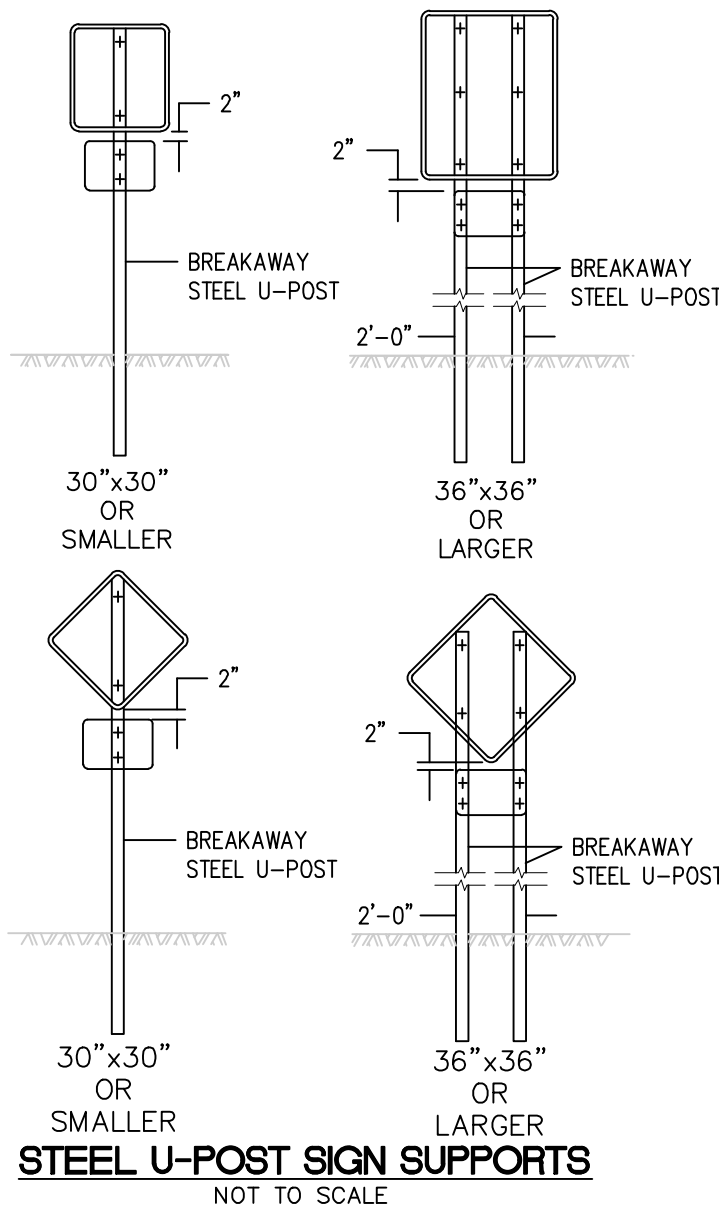
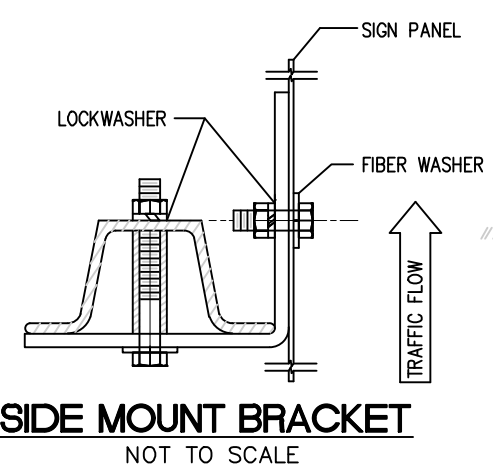
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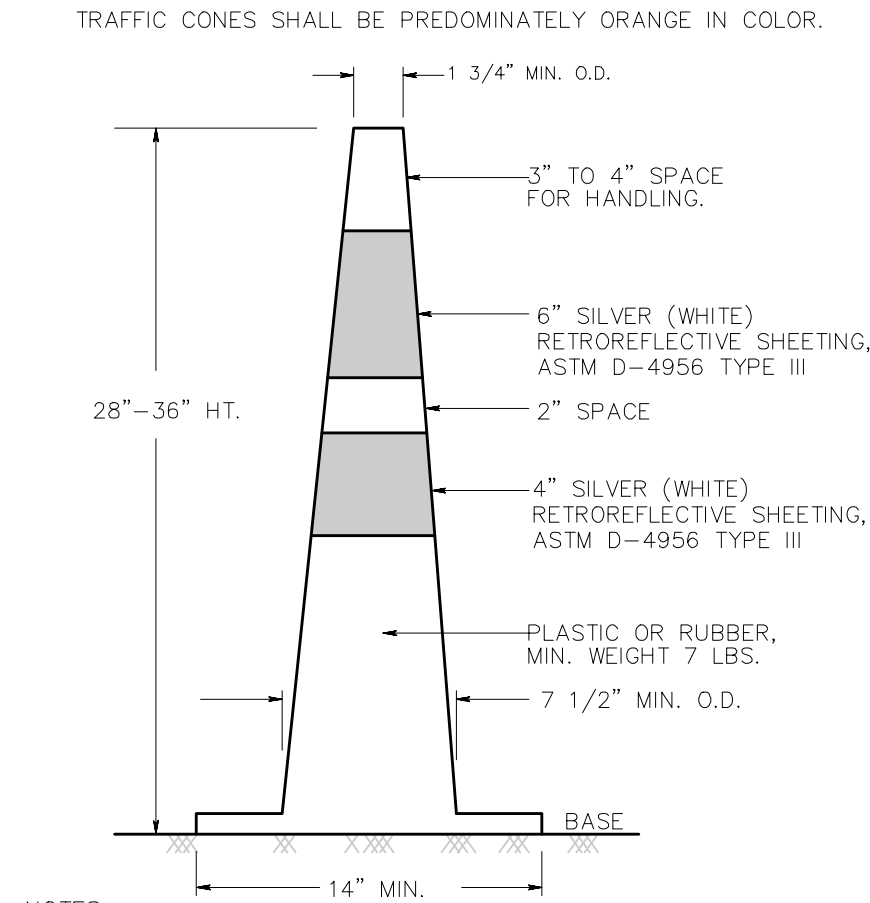
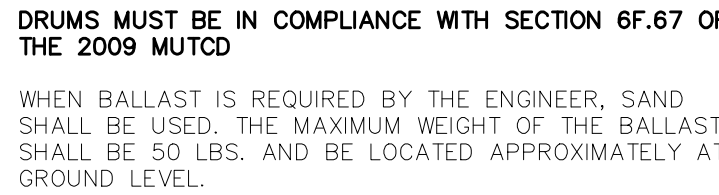
CONSTRUCTION DETAILS
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34
95

BREAKAWAY SIGN SUPPORT



1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS INDICATED BELOW.
2. ALL SMALL SIGN SUPPORTS SHALL BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT ASTM A123.
4. ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. A MOUNTING BRACKET SHOULD BE USED ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS
5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
6. BOLTS SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE NUT.
7. WHEN SIGNS ARE INSTALLED ON SLOPES 10:1V OR FLATTER, THE MINIMUM VERTICAL CLEARANCE FOR THE SIGNS ARE:
 - SINGLE POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND BOTTOM OF THE PANEL MUST BE 7 FEET, AND THE MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE TOP OF ANY SIGN PANEL MUST BE 9 FEET.
 - MULTI-POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A MAJOR SIGN PANEL MUST BE 7 FEET.
 - SECONDARY SIGN PANELS (LAND SERVICE HIGHWAYS) - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A SECONDARY SIGN PANEL IS 5 FEET.
 - SECONDARY SIGN PANELS (INTERSTATE AND FREEWAYS) - THE BOTTOM OF THE MAJOR SIGN SHALL BE A MINIMUM OF 8 FEET & THE SECONDARY SIGN PANEL A MINIMUM OF 5 FEET ABOVE THE EDGE OF PAVEMENT.
8. WHERE GRADING OF 10:1V OR FLATTER CANNOT BE OBTAINED, OR WHERE CURB OR BERM IS GREATER THAN 4 INCHES, THE MINIMUM VERTICAL CLEARANCE WILL BE MEASURED FROM THE GROUND LINE TO THE BOTTOM OF THE SIGN.
9. PERMANENT SIGN SUPPORTS SHOULD NOT BE INSTALLED ON SLOPES GREATER THAN 10:1V, EXCEPT WHERE GRADING OF 10:1V.
10. CANNOT BE OBTAINED OR THE SIGN SUPPORTS WILL BE BEHIND A SLOPE BARRIER, THE SLOPE SHALL EXTEND A MINIMUM OF 3 FEET BEYOND THE OUTSIDE EDGE OF SIGN (SEE GRADING TABLE FOR SLOPE TREATMENT).
11. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST SIGN SUPPORTS.
12. STEEL U-POST SIGN SUPPORTS SHOULD NOT BE PLACED IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
13. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPLICE.



NOTES:

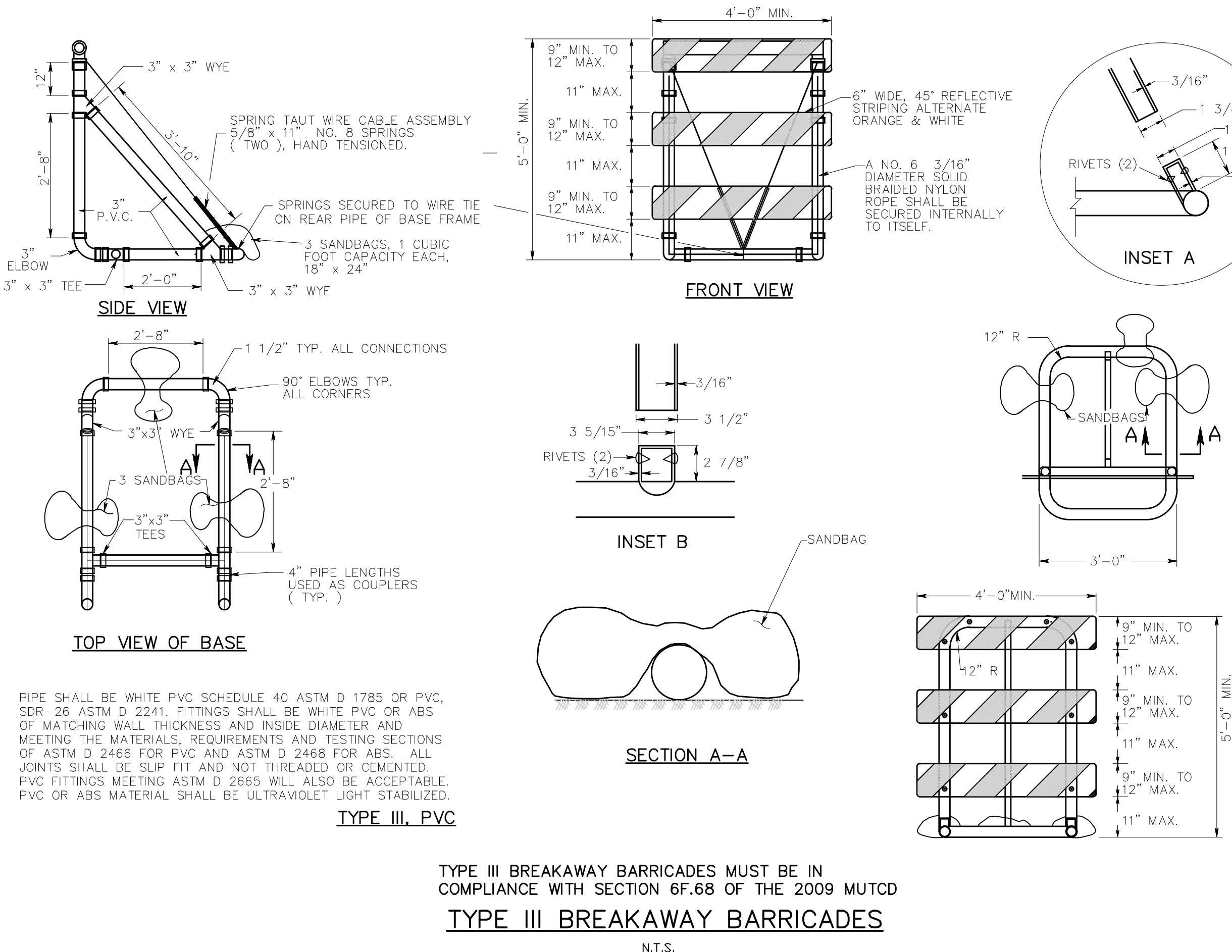
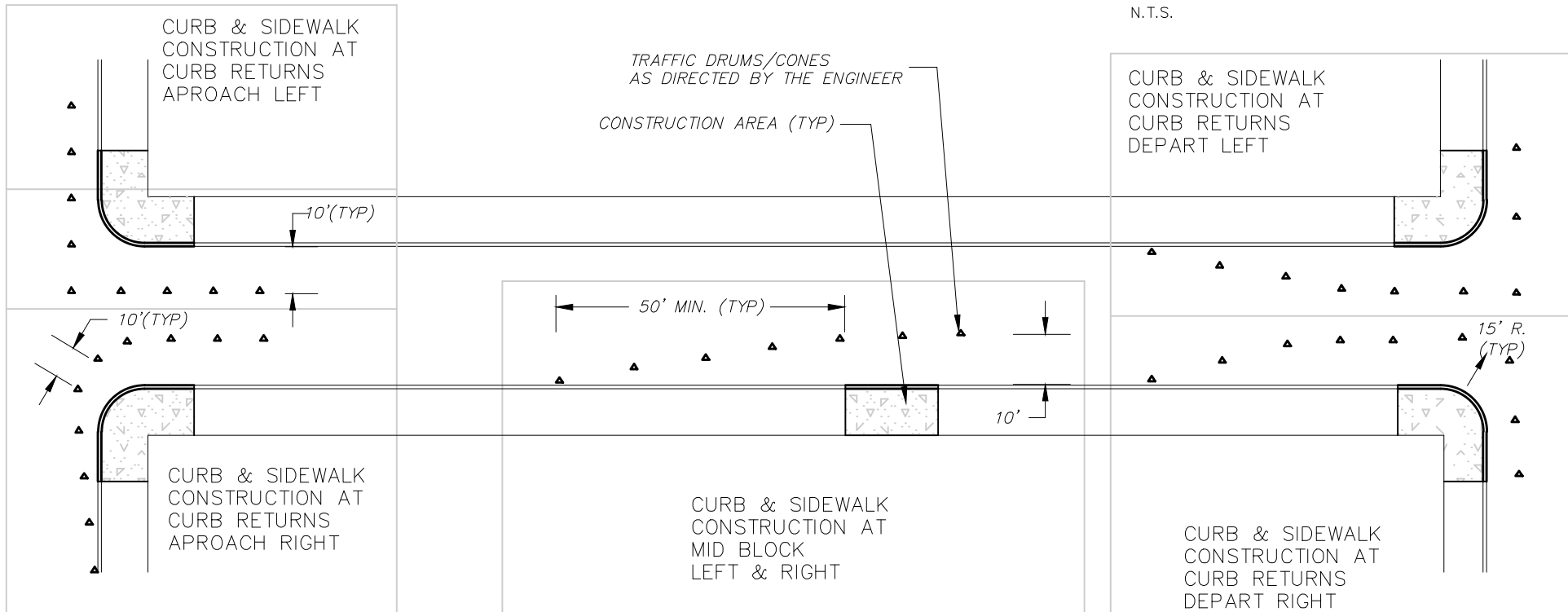
TRAFFIC CONES MUST BE IN COMPLIANCE WITH SECTION 6F.64 OF THE 2009 MUTCD

TRAFFIC CONES MUST BE PREDOMINATELY ORANGE IN COLOR.

BASES MAY BE OF BREAKAWAY BALLASTED TYPE.

MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

N.T.S.



THE BASE AND UPRIGHT SHALL BE 3 1/2" DIA. ROTATIONALLY MOLDED POLYETHYLENE PLASTIC CONFORMING TO ASTM D 1248-II A3-E4. THE BRACE SHALL BE 1 3/4" DIA. EXTRUDED POLYETHYLENE PLASTIC CONFORMING TO ASTM D 1248-III A4. POLYETHYLENE PLASTIC SHALL BE WHITE AND SHALL BE ULTRA-VIOLET LIGHT STABILIZED.

NOTES:

1. THE 9" MIN. X 18" OR 12" MAX. X 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD MILD STEEL OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE FABRICATED FROM PLASTIC SHEETING 0.125" MAX. AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASH TESTED AND FHWA APPROVED.

CD-159-1.3

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CONSTRUCTION DETAILS
OF
GREGORY AVENUE AND KENNEDY ROAD
SITUATED IN
MORRIS TOWNSHIP
MORRIS COUNTY, NEW JERSEY

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