

ADDENDUM NO. 3

June 23, 2025

Reference: **New Canada Road (PIN 107036.00)**
City of Lakeland
Shelby County, TN

The following additions, deletions, and/or revisions shall be made part of the Plans dated **August 30, 2024**, for the referenced project. This addendum shall have precedence over the plans and specifications on all items listed and described herein; however, it shall not change the intent and requirement of the plans and specifications for any item not specifically mentioned.

ITEM NO. 1

Please replace the Bid Form in the Bid Book with the attached revised Bid Form dated June 23, 2025.

ITEM NO. 2

The following plan sheets have been revised and are included with this addendum: 2, 2-1, 2F7 and XC1 – XC5 (Canada Rd. Connector South cross sections).

Questions:

Question 1: *The conceptual drawings for Retaining Walls 2 and 3 provide the foundation parameters in Table 4 for each wall. Each wall only provides an option for bearing on soil or properly compacted fill. To potentially improve the nominal resistance and coefficient of sliding friction parameters, could a soil improvement option be added for undercut and backfill (or a depth of select fill in lieu of common fill)?*

Response: Please include soil improvement in the design of Retaining Walls 2 and 3. Undercut a minimum of 5' of subgrade and fill with clean gravel, sand-gravel mixture or coarse sand. With soil improvement use 0.6 coefficient of friction and nominal bearing pressure of 10,000 psf. If open graded stone is utilized, then separate the stone from the soil using filter fabric per TDOT requirements.

Question 2: *The retaining wall (sheet piling) shown on Sheets R-7 and R-8 is apparently supposed to be paid as Item 606-24.10 Sheet Piles. There is no such item in the bid form.*

Response: Pay item 606-24.10 (Sheet Piles) has been removed from the Estimated Roadway Quantities Table and Pay Item 606-24.12 (Temporary Sheet Piles) has been removed from the bid form. Pay Item 604-07.07 (Retaining Wall 1) has been removed from the Estimated Roadway Quantities Table. The temporary wall reflected on Sheets

R-7 & R-8 will be paid for under Pay Item 621-05.01, Temporary Shoring. See revised Bid Form and Estimated Roadway Quantities Table (Sheet 2 and 2-1).

Question 3: *On Sheet 2 of the plans (quantity sheet) there is a reference to footnote #38 at Bid Item 606-24.10. There is no such footnote.*

Response: Disregard reference to footnote #38.

Question 4: *What section of sheet piles is needed for this application (section modulus, weight, etc.)?*

Response: Sheet piles are not required. See response to Question #2 above. Temporary Shoring that meets a 3-year design life will be acceptable.

Question 5: *Will the sheet piles need to be painted after installation, and if so, what paint system is required?*

Response: No. Please see the response to Question #4 above.

Question 6: *Item 606-24.12, Temporary Sheet Piles, 7800 SF is listed in the Bid Schedule, but not listed in the Estimated Quantities on Sheet No. 2. Please provide clarification on this item.*

Response: Please see the response to Question #2 above.

Question 7: *Please confirm that payment for the permanent sheet pile wall will be based on the total area of sheet piles installed, rather than the net (exposed) area as paid for temporary sheets.*

Response: Please see the response to Question #2 above.

Question 8: *The Estimated Quantities on Sheet No. 2 show Item 606-24.10 Sheet Piles, 5934 SF. I would assume that this is Retaining Wall No.1, however there is no item in the bid schedule. Please advise.*

Response: Please see the response to Question #2 above.

Question 9: *Item 621-05.01 Temporary Shoring, 6609 SF is listed in the Bid Schedule. However, it is not listed in the Estimated Quantities on Sheet No. 2. Please provide clarification on this item.*

Response: Pay Item 621-05.01, Temporary Shoring, 2,347 SF has been added to the Estimated Roadway Quantity Table and the quantity has been revised in the Bid Form. This item is to be used in lieu of the Sheet Pile Wall shown on Plan Sheets R-7 & R-8.

Question 10: *There does not appear to be enough information available for the Wall #1 sheet pile design. I read the 2022 Geotech report and I also talked to John Gordon yesterday regarding this. His report does not mention a sheet pile option. John also told me he was not aware that this was the only option given in the bid documents.*

Response: Please use the following in situ soil parameters to use for the temporary shoring system that is to be installed from approximately Station 149+40 to 152+00. Temporary shoring to have a 3-year design life, minimum. Temporary shoring will remain in place and materials will not be available for the Contractor to reclaim.

Table 2b. In Situ Soil Parameters

Material	Undrained Conditions (Short Term)			Drained Conditions (Long Term)		
	Phi (degrees)	Cohesion (psf)	Unit Weight (pcf)	Phi (degrees)	Cohesion (psf)	Unit Weight (pcf)
Fine-grained (in situ)	0	1,000	120	32	0	120
Coarse-grained (in situ)	36	0	125	36	0	125

Question 11: *For walls #2 and #3, our preliminary calcs indicate that the nominal bearing resistance is not enough to support some of the tallest wall sections. The Geotech report mentions some undercutting and replacement that might achieve 10,000 PSF. It also states that geopiers may be considered. However, we see none of this mentioned in the bid documents. Dement has asked me about using piles, but we have no option (or Geotech info) for that option in the bid documents either.*

Response: Please see the response to Question #1.

Question 12: *The proposal book contains sections SP109A Payment Adjustment for fuel and SP109B Payment Adjustment for Bituminous Material. There is no defined basic other than the wording of the average of the current quotations. Will the basic for Bituminous Material PG 64-22 on this project be set for June 2025 @ \$600.00 per ton?*

Response: The estimated price per gallon of fuel for this contract is \$2.85 (6/20/25). The May 2025 Price Index (lb) for light fuel oils shall be used for this contract. The “Basic Bituminous Material Index” for this project is \$600.00 per ton.

Question 13: *The quantities for line item# 714-09.47 do not appear to line up with the number of poles/arms that will be installed on the project which I am counting as 41. There is also a discrepancy on this line item between the quantities shown on the drawing and the bid proposal quantities. One says 99 and the other says 100. What is the correct bid quantity that should be used for line item 714-09.47?*

Response: The quantity for Pay Item 714-09.47 is 41 Each. The table on Sheet L2 is correct, but the counts listed below it should read “A - Pendant Luminaire with 4’ Arm = 5” & “B - Dual Pendant Luminaire with 4’ Arm = 18”.

Question 14: Please confirm the following grading quantities:

- a. 238742 CY of Unclassified Excavation – **Response: 253,242 CY**
- b. 33471 CY of Topsoil Strip and Respread – **Response: 33,350 CY stripped from excavation and embankment areas.**
- c. 5802 CY of Existing Pavement Removal – **Response: 5,735 CY.**
- d. 170860 CY of Embankment – **Response 170,752.** This number includes the fill behind retaining walls 2 and 3. Retaining wall backfill will be taken out of this volume when final payment is made based on cross sections of completed roadway.

Plan Sheet 2F7 has been revised to reflect the updated earthwork quantities listed above.

Bidder Must Acknowledge Receipt of this Addendum, utilizing the attached “Addenda Acknowledgement Form.” The acknowledgment form must be submitted with the bid package.

END OF ADDENDUM NO. 3

Project Number: PIN 107036.00

Bidder acknowledges receipt of the following addenda (as applicable):

Addendum No. 3 _____ Date _____

Title: _____

PIN 107036.00 - NEW CANADA ROAD BID FORM - Revised June 23, 2025

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL (\$)
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS		1	
201-01	CLEARING AND GRUBBING	LS		1	
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS		1	
202-06.01	REMOVAL OF BUILDINGS (TRACT NO.49)	LS		1	
202-06.02	REMOVAL OF BUILDINGS (TRACT NO.49)	LS		1	
202-02.21	REMOVAL OF PIPE (15")	L.F.		84	
202-02.22	REMOVAL OF PIPE (18")	L.F.		628	
202-02.23	REMOVAL OF PIPE (24")	L.F.		41	
202-02.24	REMOVAL OF PIPE (36")	L.F.		252	
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.		1,304	
203-03.10	SELECT GRANULAR MATERIAL	TON		45,000	
203-04	PLACING AND SPREADING TOPSOIL	C.Y.		34,062	
203-05	UNDERCUTTING	C.Y.		31,878	
203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.		170,860	
204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.		100	
209-05	SEDIMENT REMOVAL	C.Y.		2,043	
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.		10,342	
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.		11,135	
209-08.07	ROCK CHECK DAM	EACH		40	
209-08.08	ENHANCED ROCK CHECK DAM	EACH		28	
209-08.09	FILTER SOCK CHECK DAM	EACH		8	
209-09.01	SANDBAGS	BAG		1,588	
209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH		1	
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH		37	
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.		214	
209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH		1	
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH		4	
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH		1	
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH		6	
209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH		1	
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH		60	
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH		13	
209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH		1	
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.		397	
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON		47,726	
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON		172	
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON		800	
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON		4,672	
307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON		7,208	
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON		9,210	
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON		6,033	
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON		120	
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON		474	
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON		384	
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON		1,541	
411-01.10	ACS MIX(PG64-22) GRADING D	TON		979	
411-02.10	ACS MIX(PG70-22) GRADING D	TON		3,038	
415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.		2,913	
604-03.07	CLASS A CONCRETE (ISLANDS AND MEDIANS)	C.Y.		26	
604-07.02	RETAINING WALL (RETAINING WALL 2)	S.F.		5,364	
604-07.03	RETAINING WALL (RETAINING WALL 3)	S.F.		4,823	
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.		5,389	
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.		1,449	
607-05.05	24" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.		86	
607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.		764	
607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.		446	

607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	204
607-57.01	REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.	122
611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	1
611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	4
611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	3
611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	5
611-02.11	JUNCTION BOX, TYPE 2	EACH	1
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	140
611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	12
611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	10
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	6
611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	14
611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	5
611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	52
611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	6
611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	15
611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH	1
621-05.01	TEMPORARY SHORING	S.F.	2,347
701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	3,035
701-01.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY	S.F.	156
701-02.03	CONCRETE CURB RAMP	S.F.	5,352
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	1,279
703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.	141
707-02.11	CHAIN-LINK FENCE (6 FOOT) (VINYL COATED)	L.F.	3,137
707-02.13	GATE - CHAIN-LINK FENCE-6', VINYL COATED (12' WIDE)	EACH	3
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2,401
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	2,002
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1,128
709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1,126
709-05.09	MACHINED RIP-RAP (CLASS C)	TON	339
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	15,500
710-05	LATERAL UNDERDRAIN	L.F.	500
710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	2
710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	19
712-01	TRAFFIC CONTROL	L.S.	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	417
712-06	SIGNS (CONSTRUCTION)	S.F.	1,235
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	948
713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	6,250
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	545
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	200
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	9,500
714-03.03	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 80)	L.F.	1,200
714-05.05	PULL BOXES (14" X 24" X 12")	EACH	3
714-06.07	CABLE (1/C #2 AWG)	L.F.	36,391
714-06.08	CABLE (#6 COPPER SOFT DRAWN BARE - GROUND)	L.F.	12,130
714-08.09	LIGHT STANDARD (30' WITH MAST ARM)	EACH	23
714-08.10	LIGHT STANDARDS (BOLLARD)	EACH	94
714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	23
714-09.47	LED LUMINAIRES (30 WATT)	EACH	41
714-12.01	CONTROL CENTER (NO. 1)	LS	1

714-25.01	ELECTRICAL CONNECTION (CONTROL CENTER NO. 1)	LS		1	
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.		1,668	
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.		26	
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.		452	
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		33	
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.		187	
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.		293	
716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.		1	
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH		11	
716-03.09	PLASTIC WORD PAVEMENT MARKING (YIELD)	EACH		8	
716-03.10	PLASTIC WORD PAVEMENT MARKING (AHEAD)	EACH		8	
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		4	
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH		11	
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.		119	
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		23	
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.		592	
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH		13	
716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH		1	
716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH		7	
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.		14.8	
716-06.01	PAINTED WORD PVMT MARK (ONLY)	EACH		9	
716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		106	
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.		255	
716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH		5	
716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		3	
716-08.09	REMOVAL OF PAVEMENT MARKING (DOTTED LINE)	L.F.		134	
716-08.11	REMOVAL OF WORD PAVEMENT MARKING (ONLY)	EACH		5	
716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.		1.1	
716-08.23	REMOVAL OF PAVEMENT MARKINGS (STRAIGHT ARROW)	EACH		5	
716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.		11	
716-13.03	SPRAY THERMO PVMT MRKNG (60 MIL) (8IN BARRIER LINE)	L.F.		186	
717-01	MOBILIZATION	LS		1	
730-50.20	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (SOLAR POWERED)	EACH		8	
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.		7,094	
740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.		28,600	
740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.		7,416	
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT		258	
801-01.65	TEMPORARY MULCH	UNIT		170	
801-03	WATER (SEEDING & SODDING)	M.G.		1,546	
803-01	SODDING (NEW SOD)	S.Y.		150,862	
920-10.01	CONCRETE PEDESTRIAN CROSSWALK	S.F.		8,223	
920-10.04	MAILBOX REPLACEMENT	EACH		7	
TOTAL BID AMOUNT =					

Total in Words:

Contractor:

Phone:

Authorized Representative:

Print Name:

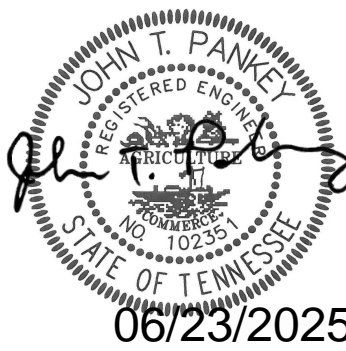
Date:

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
79LPLM-F1-032			
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
(2) 202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
(2) 202-06.01	REMOVAL OF BUILDINGS (TRACT NO.49)	LS	1
(2) 202-06.02	REMOVAL OF BUILDINGS (TRACT NO.49)	LS	1
(2) 202-02.21	REMOVAL OF PIPE (15")	L.F.	84
(2) 202-02.22	REMOVAL OF PIPE (18")	L.F.	628
(2) 202-02.23	REMOVAL OF PIPE (24")	L.F.	41
(2) 202-02.24	REMOVAL OF PIPE (36")	L.F.	252
(17)(18) 203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1304
203-03.10	SELECT GRANULAR MATERIAL	TON	45000
(24) 203-04	PLACING AND SPREADING TOPSOIL	C.Y.	34062
203-05	UNDERCUTTING	C.Y.	31878
(1)(7) 203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.	170860
204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	100
(18) 209-05	SEDIMENT REMOVAL	C.Y.	2043
(18) 209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	10342
(18) 209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	11135
(18) 209-08.07	ROCK CHECK DAM	EACH	40
(18) 209-08.08	ENHANCED ROCK CHECK DAM	EACH	28
(18) 209-08.09	FILTER SOCK CHECK DAM	EACH	8
(18) 209-09.01	SANDBAGS	BAG	1588
(18) 209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	1
(18) 209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	37
(18) 209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	214
(18) 209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	1
(18) 209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	4
(18) 209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	1
(18) 209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	6
(18) 209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	2
(18) 209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	60
(18) 209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	13
(18) 209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	1
(18) 209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	397
(7) 303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	47726
(18)(20) 303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	172
(7) 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	800
(7) 307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4672
(7) 307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	7208
(7) 307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	9210
(7) 307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	6033
(7) 402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	120
(3)(7) 402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	474
(7) 403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	384
(7) 411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	1541
(7) 411-01.10	ACS MIX(PG64-22) GRADING D	TON	979
(7) 411-02.10	ACS MIX(PG70-22) GRADING D	TON	3038
415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	2913
(7) 604-03.07	CLASS A CONCRETE (ISLANDS AND MEDIANS)	C.Y.	26
(14) 604-07.02	RETAINING WALL (RETAINING WALL 2)	S.F.	5364
(14) 604-07.03	RETAINING WALL (RETAINING WALL 3)	S.F.	4823

ESTIMATED ROADWAY QUANTITIES				
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
				79LPLM-F1-032
(5)(12)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	5389
(5)(12)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1449
(5)(12)	607-05.05	24" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	86
(5)(12)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	764
(5)(12)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	446
(6)(12)	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	204
(6)(12)	607-57.01	REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.	122
(4)	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	1
(4)	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	4
(4)	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	3
(2)	611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	5
(4)	611-02.11	JUNCTION BOX, TYPE 2	EACH	1
(5)	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
(5)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	140
(6)	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	12
(6)	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	10
(5)	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	6
(5)	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	14
(5)	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
(5)	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	5
(5)	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
(5)	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
(5)	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
(4)	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	52
(4)	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	6
(4)	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
(4)	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	15
(4)	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
(4)	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
(4)	611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH	1
	621-05.01	TEMPORARY SHORING	S.F.	2347
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	3035
	701-01.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY	S.F.	156
(7)(13)	701-02.03	CONCRETE CURB RAMP	S.F.	5352
(15)	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	1279
(16)	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.	141
(19)	707-02.11	CHAIN-LINK FENCE (6 FOOT) (VINYL COATED)	L.F.	3137
(19)	707-02.13	GATE - CHAIN-LINK FENCE-6',VINYL COATED (12' WIDE)	EACH	3
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1877
(18)(21)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	2002
(22)(28)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1128
(5)(18)(32)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1126
(5)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	339
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	15500
	710-05	LATERAL UNDERDRAIN	L.F.	500
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	2
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	19
	712-01	TRAFFIC CONTROL	L.S.	1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	417
(10)	712-06	SIGNS (CONSTRUCTION)	S.F.	1235
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	948

REVISION

DATE: 6/23/2025
REMOVED PAY ITEMS: 209-40.42, 604-07.07, & 606-24.10. ADDED
PAY ITEM 621-05.01. REVISED QUANTITY FOR PAY ITEMS:
209-08.03, 209-08.07, 209-09.43, 209-40.33, 209-40.41, 209-40.44,
209-40.46, 209-40.47, 402-01, 402-02, 403-01, 607-06.02, 709-05.06,
& 709-05.08.

[illegible]

CANADA ROAD WIDENING
CITY OF LAKE LAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2

DIVISION OF ENGINEERING

NEW CANADA ROAD

ESTIMATED ROADWAY QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012 PROJECT NO.: D7000
DESIGN BY: J.T.P. DATE: 07/2022 BOOK:
DRAWN BY: T.J.H. DATE: 07/2022 SCALE: NTS

REVIEWED

DATE	CITY ENGINEER	DATE
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ESTIMATED ROADWAY QUANTITIES				
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
79LPLM-F1-032				
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	6250
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	545
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	200
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
(3)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
(31)	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	9500
(31)	714-03.03	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 80)	L.F.	1200
(26)	714-05.05	PULL BOXES (14" X 24" X 12")	EACH	3
	714-06.07	CABLE (1/C #2 AWG)	L.F.	36391
	714-06.08	CABLE (#4 COPPER SOFT DRAWN BARE - GROUND)	L.F.	12130
(35)	714-08.09	LIGHT STANDARD (30' WITH MAST ARM)	EACH	23
(29)	714-08.10	LIGHT STANDARDS (BOLLARD)	EACH	94
	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	23
(34)(35)	714-09.47	LED LUMINAIRES (30 WATT)	EACH	41
	714-12.01	CONTROL CENTER (NO. 1)	LS	1
(30)	714-25.01	ELECTRICAL CONNECTION (CONTROL CENTER NO. 1)	LS	1
(8)	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	1668
(8)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	26
(8)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	452
(8)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	33
(8)	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	187
(8)	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	293
(8)	716-02.12	PLASTIC PAVEMENT MARKING (BIN LINE)	L.M.	1
(8)	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	11
(8)	716-03.09	PLASTIC WORD PAVEMENT MARKING (YIELD)	EACH	8
(8)	716-03.10	PLASTIC WORD PAVEMENT MARKING (AHEAD)	EACH	8
(8)	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	4
(8)	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	11
(8)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	119
(9)	716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	23
(9)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	592
(9)	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	13
(9)	716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH	1
(9)	716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH	7
(9)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	14.8
(9)	716-06.01	PAINTED WORD PVMT MARK (ONLY)	EACH	9
	716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	106
	716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	255
	716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	5
	716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	3
	716-08.09	REMOVAL OF PAVEMENT MARKING (DOTTED LINE)	L.F.	134
	716-08.11	REMOVAL OF WORD PAVEMENT MARKING (ONLY)	EACH	5
	716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	1.1
	716-08.23	REMOVAL OF PAVEMENT MARKINGS (STRAIGHT ARROW)	EACH	5
	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	11
	716-13.03	SPRAY THERMO PVMT MRKNG (60 MIL) (8IN BARRIER LINE)	L.F.	186
	717-01	MOBILIZATION	LS	1
	730-50.20	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (SOLAR POWERED)	EACH	8
(18)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	7094
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	7416
(18)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	8245
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	258
	801-01.65	TEMPORARY MULCH	UNIT	170
	801-03	WATER (SEEDING & SODDING)	M.G.	1546

[illegible]

REVISION

DATE: 6/23/2025
REVISED QUANTITY FOR PAY ITEMS: 714-09.47, 740-10.03, &
740-11.03.

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANKO
MAYOR
CITY OF LAKELAND
STATE OF TENNESSEE
06/23/2025

CANADA ROAD WIDENING

CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2-1

DIVISION OF ENGINEERING
NEW CANADA ROAD
ESTIMATED ROADWAY QUANTITIES

SURVEY: F & A, INC.	DATE: 03/2012	PROJECT NO.: D7008
DESIGN BY: J.T.P.	DATE: 07/2022	BOOK:
DRAWN BY: T.J.H.	DATE: 07/2022	SCALE: NTS

REVIEWED

DATE	CITY ENGINEER	DATE
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PAVEMENT QUANTITIES

PAVEMENT QUANTITIES														
LOCATION	PAY ITEMS													
	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	307-01.21 (TON)	307-02.01 (TON)	307-02.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.07 (TON)	411-01.10 (TON)	411-02.10 (TON)	415-01.02 (S.Y.)	701-01.07 (S.Y.)
NEW CANADA ROAD	34428		845	7208	9210	6033	78.0	310	272	481		3038	2913	
CANADA ROAD CONNECTOR SOUTH	1169	418	267				3.5	14	15		153			
CANADA ROAD CONNECTOR NORTH	1068	382	244				3.2	13	14		140			
WINDARD SLOPE DRIVE	361		59				0.7	3	2		31			
WILLIAM LITTLE DRIVE	438		65				0.8	3	2		34			
OWL HILL DRIVE	602		89				1.1	4	2		46			
LAKE BRIDGE DRIVE	248		37				0.4	2	1		19			
CANABRIDGE DRIVE	237		35				0.4	2	1		18			
MEMPHIS ARLINGTON ROAD	2806		448				6.3	25	23		228			
SHARED USE PATH (NEW CANADA ROAD)	5359		2324				25.0	99	53	1060				
ASPHALT DRIVEWAYS	1009		260								309			
EXPOSED AGGREGATE CONCRETE DRIVEWAYS														156
TOTALS	47726	800	4672	7208	9210	6033	119.3	474	384	1541	979	3038	2913	156

**CLASS A CONCRETE
(FOR MEDIANS AND ISLANDS)**

ITEM NO.
604-03.07

LOCATION				DEPTH (IN.)	AREA (SQ. YD.)	VOLUME (CU. YD.)
ROADWAY	LT./RT./MED.	STA.	STA.			
NEWCANADA RD.	MEDIAN	104+12	106+10	6	44.00	7.33
NEWCANADA RD.	MEDIAN	122+59	124+60	6	44.67	7.44
NEWCANADA RD.	MEDIAN	140+00	142+01	6	67.22	11.20
TOTALS						25.98

REVISIONS:
DATE: 6/20/2025
REVISED ESTIMATED GRADING QUANTITIES
TABLE TO REMOVE LAUREL HILLS AND
REVISED ROAD & DRAINAGE'S SUBTOTAL
FOR DETENTION PONDS & TOTAL QUANTITY.

ESTIMATED GRADING QUANTITIES

ESTIMATED GRADING QUANTITIES									
STATION TO STATION	①ROAD & DRAINAGE EXC. (UNCL.)	BORROW EXCAVATION		TOPSOIL REMOVAL (EXC. AREAS)	TOPSOIL REMOVAL (EMB. AREAS)	①EXIST. PAVEMENT REMOVAL	EMB.	EXCESS EXC. WASTE	CHANNEL EXC.
	C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
NEW CANADA ROAD	190887			15436	13398	4580	161454		
WINDWARD SLOPE	93			3	3	63	7		
CANADA ROAD SOUTH CONNECTOR	6066			876	48	0	111		
WILLIAM LITTLE	378			7	13	268	80		
OWL HILL	640			552	0	88	27		
LAKE BRIDGE	116			15	16	65	22		
CANABRIDGE	83			5	6	47	11		
CANADA ROAD NORTH CONNECTOR	8831			743	13	229	31		
MEMPHIS ARLINGTON	4883			623	410	395	2837		
SUBTOTAL	211977			18260	13907	5735	164580		
DETENTION PONDS									
DETENTION POND 1	23787			581			5301		
DETENTION POND 2	2500			56			804		
DETENTION POND 3	14978			546			67		
SUBTOTAL	41265			1183			6172		
TOTALS	②253242			19443	13907	③5735	170752		

NO SHRINKAGE/SWALE FACTOR APPLIED TO THE LISTED QUANTITIES

① THIS ITEM IS NOT TO BE MEASURED FOR PAYMENT BUT IS INCIDENTAL TO PAY ITEM 203-10, EMBANKMENT COMPACTED IN PLACE (SEE TDOT SPECIAL PROVISION 205A)

② TOTAL EXCAVATION QUANTITY INCLUDES TOPSOIL REMOVAL (EMB. AREAS & EXC. AREAS) AND EXIST. PAVEMENT REMOVAL

③EXIST. PAVEMENT REMOVAL QUANTITY INCLUDES ALL EXIST. PAVEMENT, INCLUDING EXIST. PAVEMENT BELOW THE PROPOSED SUBGRADE. THIS QUANTITY DEVELOPED USING AN ASSUMED 1' SECTION DEPTH.

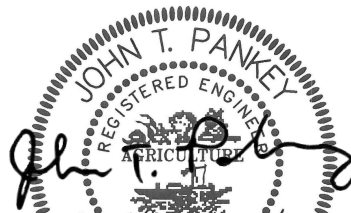
DIVISION OF ENGINEERING TABULATED QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012 PROJECT NO.: D7008
DESIGN BY: J.T.P. DATE: 07/2022 BOOK:
DRAWN BY: T.J.H. DATE: 07/2022 SCALE: N/A

REVIEWED

DATE CITY ENGINEER DATE

ITEM NO.	DESCRIPTION OF	APPROVAL DATE



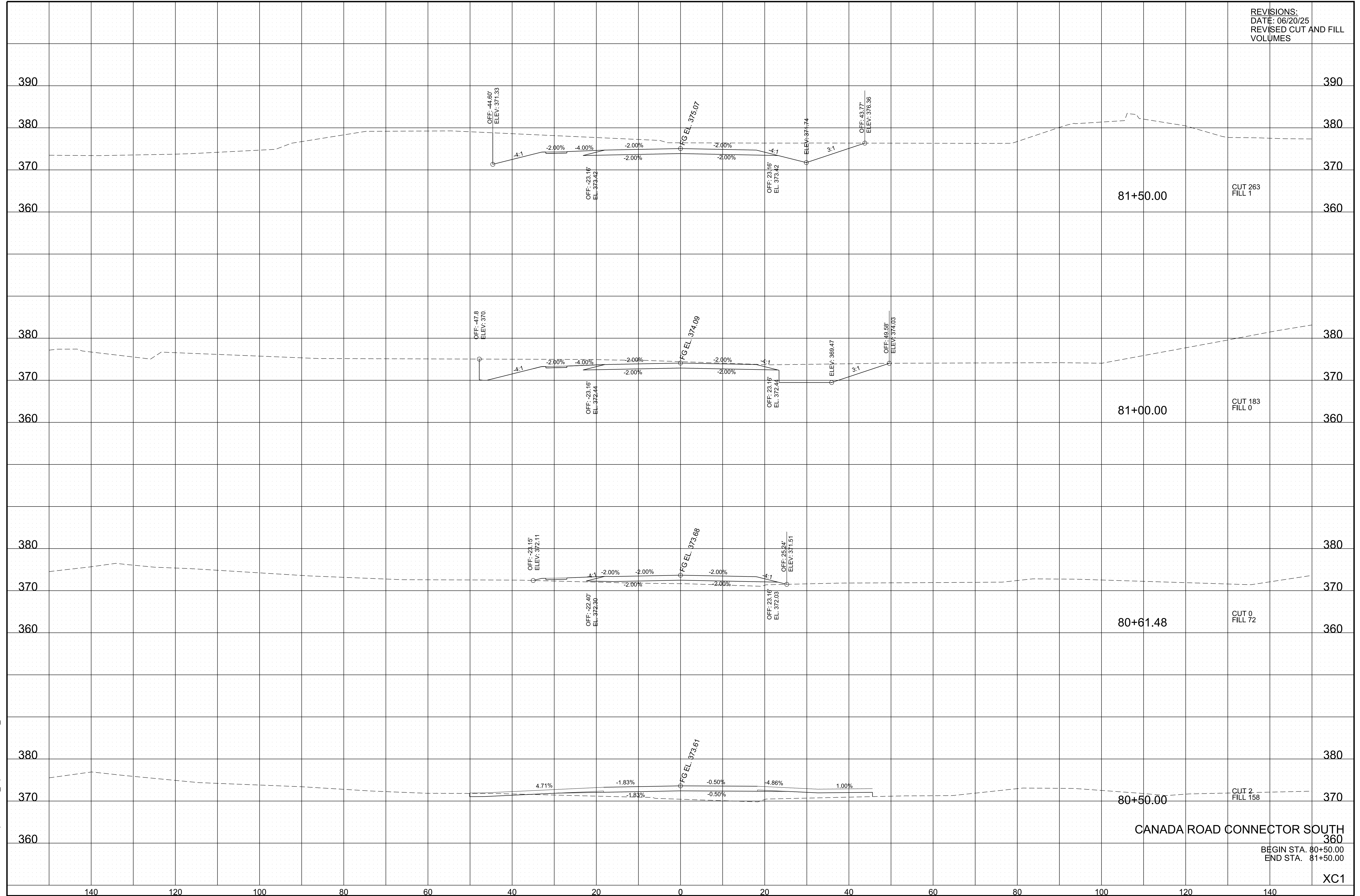
06/23/2025

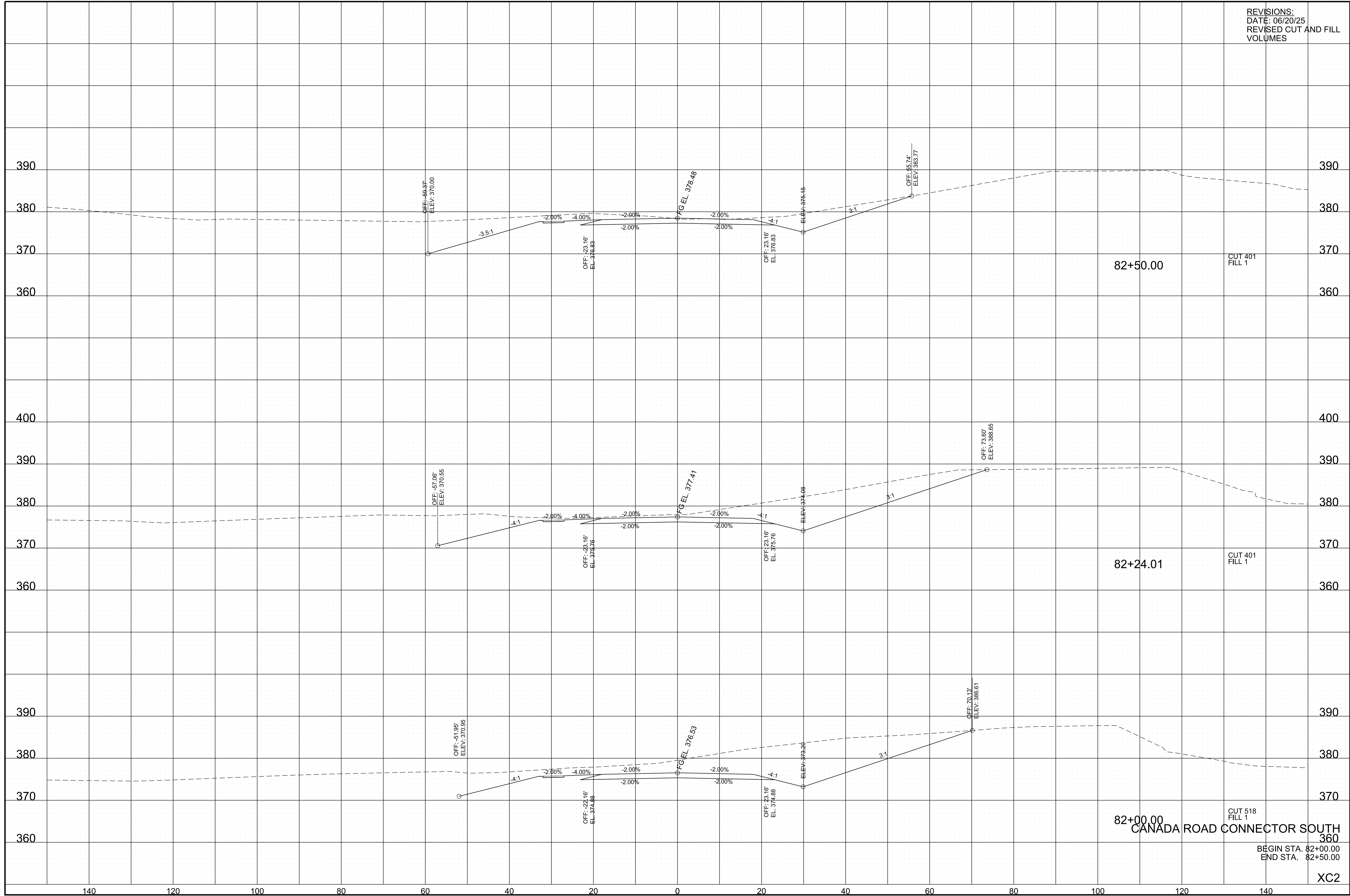
CANADA ROAD WIDENING

CITY OF LAKELAND

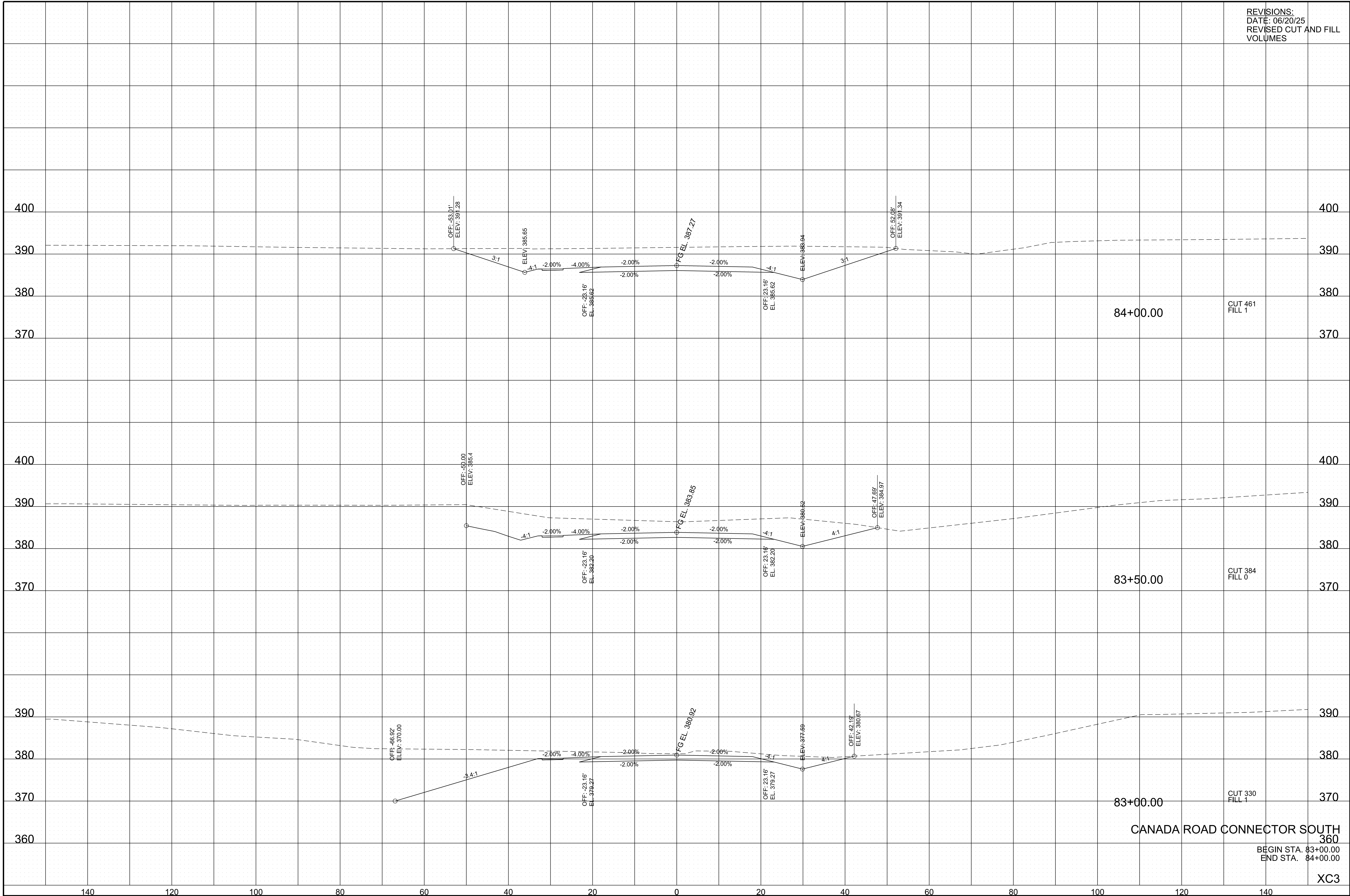
ENGINEER: FISHER & ARNOLD, INC.

REVISIONS:	
DATE: 06/20/25	
REVISED CUT AND FILL VOLUMES	

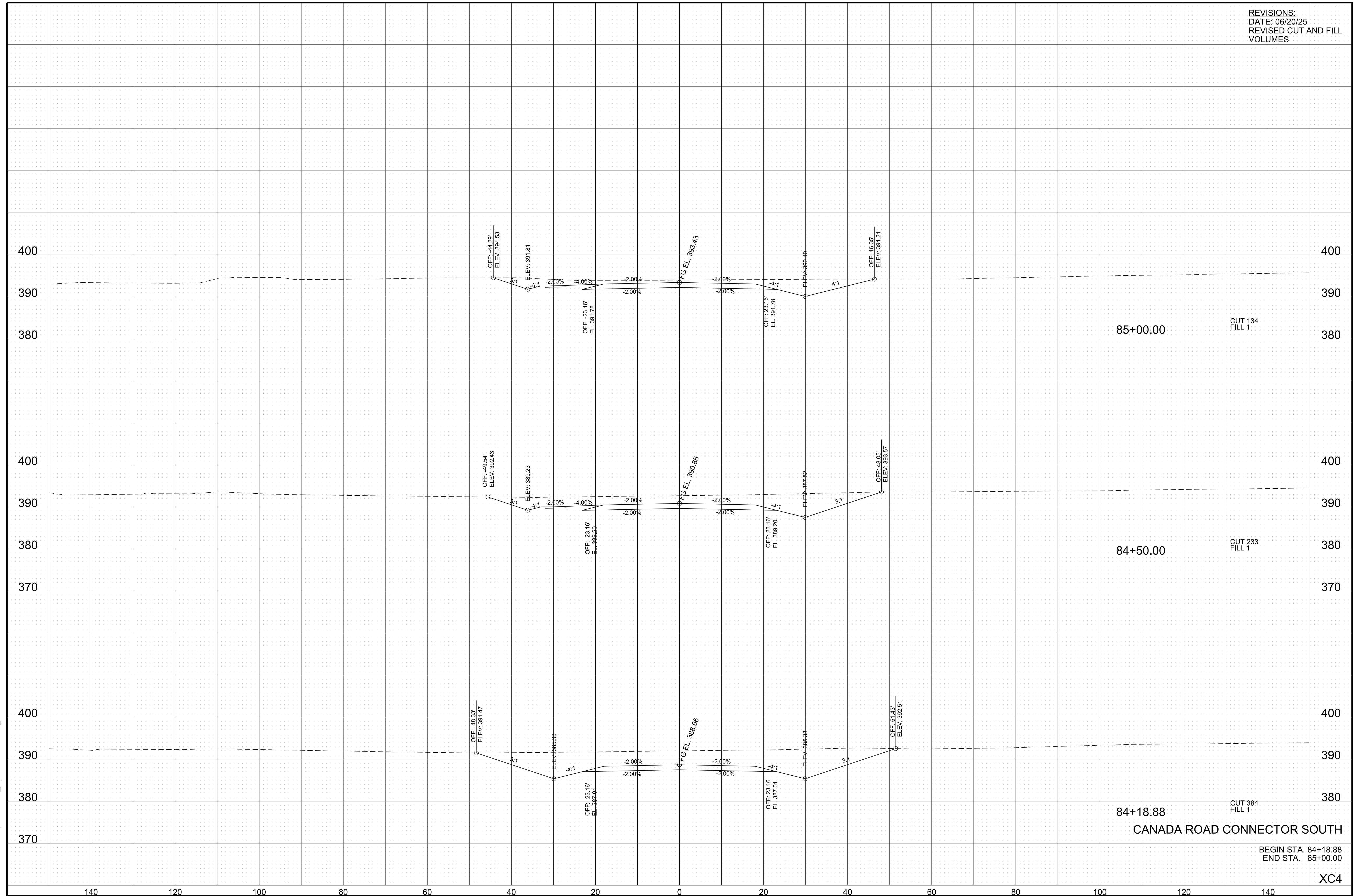




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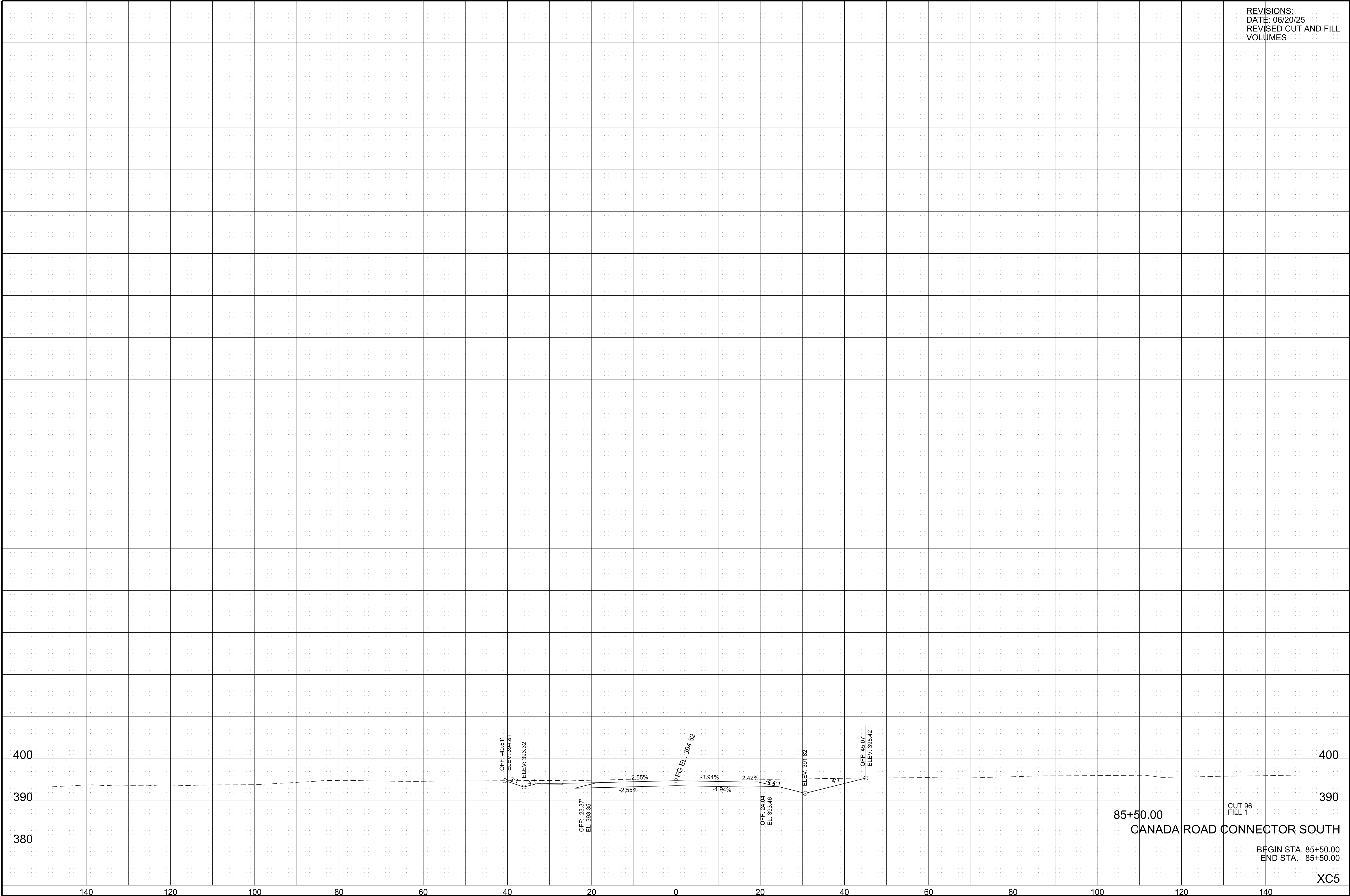


REVISIONS:	
DATE: 06/20/25	
REVISED CUT AND FILL VOLUMES	



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REVISIONS:
DATE: 06/20/25
REVISED CUT AND FILL
VOLUMES



BEGIN STA. 85+50.00
END STA. 85+50.00

XC5