ENGINEERS AND SURVEYORS

LUDLOWVILLE ROAD REPAIRS - OPINION OF PROBABLE COST

TOWN OF LANSING, NY 11/8/2023

OPTION 1 - REOPEN ROAD TO VEHICULAR TRAFFIC

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ITEM#	DESCRIPTION	QTY L	JNIT	UNIT COST	SUBTOTAL
	REPLACE SHEETING AND REPAIR WASHOUT AREAS (STA 7	+17 TO 12+20	0)		
552.11	PERMANENT STEEL SHEETING - CASE 100 (PZ55)	1,230 S	SF.	\$95.00	\$116,850
551.10	SOLDIER PILES AND LAGGING - CASE 8+13 (W18X97)	790 S	SF	\$100.00	\$79,000
551.10	SOLDIER PILES AND LAGGING - CASE 10+20 (W24X146)	450 S	SF.	\$100.00	\$45,000
620.03	STONE FILLING (LIGHT)	700 C	CY	\$116.47	\$81,529
203.07	SELECT GRANULAR FILL	800 C	CY	\$63.15	\$50,520
207.20	GEOTEXTILE BEDDING	300 S	SY	\$7.34	\$2,202
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	250 C	CY	\$36.70	\$9,175
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	100 C	CY	\$296.90	\$29,690
-	INSTALL DIP WEEPS	20 E	ΕA	\$200.00	\$4,000
-	PARTIAL REMOVAL OF NORTH CONC. WALL	1 L	S	\$8,000.00	\$8,000
589.01	PARTIAL REMOVAL OF EXISTING STEEL SHEETING	7,000 L	.В	\$3.25	\$22,750
					\$448,716
	STORM PIPING AND UNDERDRAIN (STA 5+50 TO 10+50)				
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	550 C	CY	\$36.70	\$20,185
203.07	SELECT GRANULAR FILL	361 C	CY	\$63.15	\$22,804
620.03	STONE FILLING (LIGHT)	50 C	CY	\$116.47	\$5,824
623.12	CRUSHED STONE (IN-PLACE MEASURE)	350 C	CY	\$105.48	\$36,918
-	12" HDPE CULVERT PIPE	500 L	_F	\$37.00	\$18,500
-	24" HDPE CULVERT PIPE	75 L	_F	\$43.00	\$3,225
-	PRECAST CONCRETE DRAIN INLET	6 E	ΕΑ	\$2,000.00	\$12,000
-	REMOVE EXISTING 18" CMP STORM	3 E	ΕΑ	\$1,500.00	\$4,500
605.1502	PERFORATED CORRUGATED PE UNDERDRAIN, 6IN DIA	500 L	_F	\$25.04	\$12,520
621.5100002	GRADING CLEANING AND RESHAPING DITCHES	250 L	.F	\$7.06	\$1,765
					\$138,241
202.02	UPSIZE AND REPLACE EXISTING 72" STEEL CULVERT (STA 1			426 70	40.475
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	250 C		\$36.70	\$9,175
-	84" CMP WITH 2 GALV. END SECTIONS	50 L		\$525.00	\$26,250
203.07	SELECT GRANULAR FILL	175 C		\$63.15	\$11,051
620.05	STONE FILLING (HEAVY)	20 C	CY	\$125.48	\$2,510
	STABILIZE EXISTING DITCH (STA 2+25 TO STA 5+50)				\$48,986
621.5100002	GRADING CLEANING AND RESHAPING DITCHES	425 L	 _F	\$7.06	\$3,001
207.20	GEOTEXTILE BEDDING	283 S		\$7.34	\$2,080
620.03	STONE FILLING (LIGHT)	94 C		\$116.47	\$11,000
	,				\$16,080

ENGINEERS AND SURVEYORS

	OPINION OF TOTAL PROBABLE PROJECT COST			\$1,657,492
	ROW/EASEMENTS/LEGAL	4%		\$44,797
	CONSTRUCTION ADMIN/INSPECTION	3%		\$33,598
	ENGINEERING, DESIGN, PERMITTING	15%		\$167,989
	CONTINGENCY	30%		\$335,978
	OPINION OF TOTAL PROBABLE CONSTRUCTION COST			\$1,119,927
				\$101,109
-	INSTALL DIP WEEPS	10 EA	\$200.00	\$2,000
204.01	CONTROLLED LOW STRENGTH MATERIAL	20 CY	\$296.90	\$5,938
620.03	STONE FILLING (LIGHT)	300 CY	\$116.47	\$34,941
203.07	SELECT GRANULAR FILL	200 CY	\$63.15	\$12,630
552.11	PERMANENT STEEL SHEETING (PZ55)	480 SF	\$95.00	\$45,600
	STABILIZE SOUTH RETAINING WALL BUTTRESS (STA 12+50))		\$309,666
402.098203	9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	800 TON	\$130.00	\$104,000
402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	1,600 TON	\$128.00	\$204,800
520.09000010	SAW CUTTING ASPHALT CONCRETE	240 LF	\$3.61	\$866
	ASPHALT ROAD RESTORATION			\$37,125
606.58	RESETTING HPBO CORRUGATED BEAM GUIDE RAIL	750 LF	\$44.00	\$33,000
606.66	REMOVING & STORING HPBO CORRUGATED BEAM GR	750 LF	\$5.50	\$4,125
	GUIDERAIL REMOVAL AND REPLACEMENT			\$20,004
620.03	STONE FILLING (LIGHT)	40 CY	\$116.47	\$4,659
610.16 620.03	TURF ESTABLISHMENT - PERFORMANCE	500 SY 40 CY	\$5.00	\$2,500
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	350 CY	\$36.70	\$12,845
	UPGRADE CHANNEL TO CREEK		400-0	±10.01=

ENGINEERS AND SURVEYORS

LUDLOWVILLE ROAD REPAIRS - OPINION OF PROBABLE COST

TOWN OF LANSING, NY 11/8/2023

OPTION 2 - CONVERT TO TRAIL (ONE LANE)

NYSDOT

ITEM#	DESCRIPTION	QTY	UNIT	UNIT COST	SUBTOTAL
	REPLACE SHEETING AND REPAIR WASHOUT AREAS (STA 7+	17 TO 12+20)		
552.11	PERMANENT STEEL SHEETING - CASE 100T (PZ40)	200	SF	\$90.00	\$18,000
551.10	PERMANENT STEEL SHEETING - CASE 8+13T (PZ40)	460	SF	\$90.00	\$41,400
551.10	PERMANENT STEEL SHEETING - CASE 10+20T (PZ40)	153	SF	\$90.00	\$13,770
620.03	STONE FILLING (LIGHT)	500	CY	\$116.47	\$58,235
203.07	SELECT GRANULAR FILL	400	CY	\$63.15	\$25,260
207.20	GEOTEXTILE BEDDING	150	SY	\$7.34	\$1,101
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	1,300	CY	\$36.70	\$47,710
204.01	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	20	CY	\$296.90	\$5,938
-	INSTALL DIP WEEPS	23	EA	\$200.00	\$4,600
-	REMOVAL OF NORTH CONC. WALL	1	LS	\$20,000.00	\$20,000
589.01	CUT AND REMOVE EXISTING EXPOSED STEEL SHEETING	54,000	LB	\$1.20	\$64,800
					\$300,814
	STORM PIPING AND UNDERDRAIN (STA 5+50 TO 10+50)				
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	550	CY	\$36.70	\$20,185
203.07	SELECT GRANULAR FILL	361	CY	\$63.15	\$22,804
620.03	STONE FILLING (LIGHT)	50	CY	\$116.47	\$5,824
623.12	CRUSHED STONE (IN-PLACE MEASURE)	350	CY	\$105.48	\$36,918
-	12" HDPE CULVERT PIPE	500	LF	\$37.00	\$18,500
-	24" HDPE CULVERT PIPE	75	LF	\$43.00	\$3,225
-	PRECAST CONCRETE DRAIN INLET	6	EA	\$2,000.00	\$12,000
-	REMOVE EXISTING 18" CMP STORM	3	EA	\$1,500.00	\$4,500
605.1502	PERFORATED CORRUGATED PE UNDERDRAIN, 6IN DIA	500	LF	\$25.04	\$12,520
621.5100002	GRADING CLEANING AND RESHAPING DITCHES	250	LF	\$7.06	\$1,765
	UPSIZE AND REPLACE EXISTING 72" STEEL CULVERT (STA 1+	·65)			\$138,241
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	250	CY	\$36.70	\$9,175
-	84" CMP WITH 2 GALV. END SECTIONS		LF	\$525.00	\$26,250
203.07	SELECT GRANULAR FILL	175		\$63.15	\$11,051
620.05	STONE FILLING (HEAVY)		CY	\$125.48	\$2,510
020.03	orone riceino (ricein)		<u> </u>	Ψ123113	\$48,986
	STABILIZE EXISTING DITCH (STA 2+25 TO STA 5+50)				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
621.5100002	GRADING CLEANING AND RESHAPING DITCHES	425	LF	\$7.06	\$3,001
207.20	GEOTEXTILE BEDDING	283	SY	\$7.34	\$2,080
620.03	STONE FILLING (LIGHT)	94	CY	\$116.47	\$11,000
					\$16,080

ENGINEERS AND SURVEYORS

	UPGRADE CHANNEL TO CREEK			
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	350 CY	\$36.70	\$12,845
610.16	TURF ESTABLISHMENT - PERFORMANCE	500 SY	\$5.00	\$2,500
620.03	STONE FILLING (LIGHT)	40 CY	\$116.47	\$4,659
				\$20,004
	GUIDERAIL REMOVAL AND REPLACEMENT			
606.66	REMOVING & STORING HPBO CORRUGATED BEAM GR	750 LF	\$5.50	\$4,125
606.58	RESETTING HPBO CORRUGATED BEAM GUIDE RAIL	750 LF	\$44.00	\$33,000
				\$37,125
	ASPHALT ROAD RESTORATION			
520.09000010	SAW CUTTING ASPHALT CONCRETE	600 LF	\$3.61	\$2,166
402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	1,250 TON	\$128.00	\$160,000
402.098203	9.5 F2 TOP COURSE HMA, 80 SERIES COMPACTION	625 TON	\$130.00	\$81,250
				\$243,416
	ALLOWANCE FOR EMERGENCY TURNAROUND			
-	EASEMENT/ROW ACQUISITION, PAVING, SIGNAGE	1 LS	\$30,000.00	\$30,000
				\$30,000
	STABILIZE SOUTH RETAINING WALL BUTTRESS (STA 12+50)			
552.11	PERMANENT STEEL SHEETING (PZ55)	480 SF	\$95.00	\$45,600
203.07	SELECT GRANULAR FILL	200 CY	\$63.15	\$12,630
620.03	STONE FILLING (LIGHT)	300 CY	\$116.47	\$34,941
204.01	CONTROLLED LOW STRENGTH MATERIAL	20 CY	\$296.90	\$5,938 ·
	INSTALL DIP WEEPS	10 EA	\$200.00	\$2,000
				\$101,109
·	OPINION OF TOTAL PROBABLE CONSTRUCTION COST			\$935,774
	CONTINGENCY	30%		\$280,732
	ENGINEERING, DESIGN, PERMITTING	15%		\$140,366
	CONSTRUCTION ADMIN/INSPECTION	3%		\$28,073
	ROW/EASEMENTS/LEGAL	4%		\$37,431
	OPINION OF TOTAL PROBABLE PROJECT COST			\$1,384,946

ENGINEERS AND SURVEYORS

LUDLOWVILLE ROAD REPAIRS - OPINION OF PROBABLE COST

TOWN OF LANSING, NY 11/8/2023

OPTION #3 - ABANDONMENT

NYSDOT

ITEM#	DESCRIPTION	QTY	UNIT	UNIT COST	SUBTOTAL
	REMOVE SHEETING AND ROADWAY (STA 7+17 TO 12+20)				
620.03	STONE FILLING (LIGHT)	400	CY	\$116.47	\$46,588
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	2,860	CY	\$36.70	\$104,962
490.1	MILL ASPHALT FOR REUSE	1,250	SY	\$20.00	\$25,000
-	REMOVAL OF NORTH CONC. WALL	1	LS	\$20,000.00	\$20,000
589.01	CUT AND REMOVE EXISTING EXPOSED STEEL SHEETING	54,000	LB	\$1.20	\$64,800
	GUIDERAIL REMOVAL				\$261,350
606.66	REMOVING & STORING HPBO CORRUGATED BEAM GR	750	LF	\$5.50	\$4,125
	ALLOWANCE FOR EMERGENCY TURNAROUND				\$4,125
-	EASEMENT/ROW ACQUISITION, PAVING, SIGNAGE	1	LS	\$30,000.00	\$30,000
				· ,	\$30,000
	STABILIZE SOUTH RETAINING WALL BUTTRESS (STA 12+50)				
552.11	PERMANENT STEEL SHEETING (PZ55)	480	SF	\$95.00	\$45,600
203.07	SELECT GRANULAR FILL	200	CY	\$63.15	\$12,630
620.03	STONE FILLING (LIGHT)	300	CY	\$116.47	\$34,941
204.01	CONTROLLED LOW STRENGTH MATERIAL	20	CY	\$296.90	\$5,938
-	INSTALL DIP WEEPS	10	EA	\$200.00	\$2,000
					\$101,109
	OPINION OF TOTAL PROBABLE CONSTRUCTION COST				\$396,584
	CONTINGENCY	30%			\$118,975
	ENGINEERING, DESIGN, PERMITTING	15%			\$59,488
	CONSTRUCTION ADMIN/INSPECTION	3%			\$11,898
	ROW/EASEMENTS/LEGAL	4%			\$15,863
	OPINION OF TOTAL PROBABLE PROJECT COST				\$586,944

LUDLOWVILLE ROAD REPAIRS - OPINION OF PROBABLE COST

TOWN OF LANSING, NY 11/8/2023

REPAIR SOUTH CONCRETE RETAINING WALL (STA 12+50)

NYSDOT

ITEM #	DESCRIPTION	QTY UNIT	UNIT COST	SUBTOTAL
	REPAIR EXISTING SOUTH CONCRETE RETAINING WALL			
582.07	REMOVAL OF STRUCTURAL CONCRETE-REPLACEMENT	2200 SF	\$145.00	\$319,000
	WITH VERTICAL AND OVERHEAD PATCHING MATERIAL			
				\$319,000
	STORM PIPING THROUGH WALL			
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	70 CY	\$36.70	\$2,569
203.07	SELECT GRANULAR FILL	30 CY	\$63.15	\$1,895
623.12	CRUSHED STONE (IN-PLACE MEASURE)	12 CY	\$105.48	\$1,266
-	24" HDPE CULVERT PIPE	120 LF	\$43.00	\$5,160
-	PRECAST CONCRETE MANHOLE	1 EA	\$5,000.00	\$5,000
_	REMOVE EXISTING 18" CMP STORM	2 EA	\$1,500.00	\$3,000
				\$18,889
	OPINION OF TOTAL PROBABLE CONSTRUCTION COST			\$337,889
	CONTINGENCY	30%		\$101,367
	ENGINEERING, DESIGN, PERMITTING	15%		\$50,683
	CONSTRUCTION ADMIN/INSPECTION	3%		\$10,137
	ROW/EASEMENTS/LEGAL	4%		\$13,516
	OPINION OF TOTAL PROBABLE PROJECT COST			\$500,076

LUDLOWVILLE ROAD REPAIRS - OPINION OF PROBABLE COST

TOWN OF LANSING, NY 11/8/2023

SUMMARY OF COSTS

OPTION 1 - REOPEN ROAD TO VEHICULAR TRAFFIC	\$1,657,492
OPTION 2 - CONVERT TO TRAIL (ONE LANE)	\$1,384,946
OPTION #3 - ABANDONMENT	\$586,944
REPAIR SOUTH CONCRETE RETAINING WALL (STA 12+50) (NOT INCLUDED IN OPTIONS 1, 2 OR 3 ABOVE)	\$500,076
DIFFERENCE BETWEEN OPTION 1 AND OPTION 2 DIFFERENCE BETWEEN OPTION 1 AND OPTION 3 OPTION 1 PLUS REPAIR SOUTH CONCRETE WALL	\$272,546 \$1,070,547 \$2,157,568