



**Thruway
Authority**

NEW YORK DIVISION

PLANS FOR

REPLACEMENT OF THE PINE HILL ROAD BRIDGE AT I-87 MILE POST 47.58

AND

REHABILITATION OF THE I-87 BRIDGE OVER SMITH CLOVE ROAD AT I-87 MILE POST 47.04

AND

RESURFACING AND SAFETY IMPROVEMENTS BETWEEN I-87 MILE POST 46.00 TO 48.00

IN

ORANGE COUNTY

TANY 26-17B

D215020

Quantity Workups

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	AJCE	5/15/2025
Revised By:		
Backchecked By:		

Unit: LS

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	2/24/2025
Checked By:	AJCE	5/15/2025
Revised By:		
Backchecked By:		

Unit: LS

ITEM 202.120001 (LS)								
REMOVING EXISTING SUPERSTRUCTURES								
								LS
								1.00
202-4.05 Removal of Superstructures. The work under removal of superstructures will be measured for payment on a lump sum basis for a specific superstructure.								
TOTAL:								1.00
Added for unanticipated field conditions:								0.0
SAY:								1

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet:
Highway No.:
Date:
Company: AECOM

Initials Date
Prepared By: MR 4/23/2025
Checked By: GWR 4/30/2025
Revised By:
Backchecked By:

Item: 202.19 REMOVAL OF SUBSTRUCTURES

Unit: CY

ITEM 202.19 (CY)									
REMOVAL OF SUBSTRUCTURES									
LOCATION	Length (ft)	Width (ft)	TOP EL (ft)	BOT EL (ft)	Height (ft)	Vol. (CF)	Vol. (CY)	4.75	CY
WEST ABUTMENT STAGE 1	11.67	2.33	558.09	557.31	0.78	10.60	0.39		5.0
SUBTRACT WINGWALL BAR (RAMP)	11.67	4.58	558.09	556.12	1.97	105.37	3.90		
	3.33	1.00	558.09	556.12	1.97	6.56	0.24		
PROPOSED SEWER PIPE	1.67	4.00	556.12	554.65	1.47	9.82	0.36		
PARAPET	1.58	1.25			0.50	0.99	0.04		
	2.92	1.25			0.42	1.52	0.06		
	4.08	1.25			0.42	2.13	0.08		
	5.00	1.25			2.00	12.50	0.46		
WEST ABUTMENT STAGE 2	15.00	4.58	552.92	552.50	0.42	28.65	1.06	13.59	14.0
ABUTMENT	1.67	3.58	556.12	552.30	3.82	22.86	0.85		
BACKWALL	11.67	2.33	558.09	557.31	0.78	10.60	0.39		
SUBTRACT WINGWALL BAL (RAMP)	11.67	4.58	558.09	552.30	5.37	287.23	10.64		
WINGWALL BAL	3.33	1.00	558.09	552.30	5.37	17.88	0.66		
PEDESTAL	1.67	3.58	552.92	552.30	0.62	3.71	0.14		
PARAPET	1.58	1.25			0.50	0.99	0.04		
	2.92	1.25			0.42	1.52	0.06		
	4.08	1.25			0.42	2.13	0.08		
	5.00	1.25			2.00	12.50	0.46		
PIER 1 STAGE 1	11.38	3.25	554.33	550.83	3.25	129.27	4.79	9.36	9.0
Columns			550.83	538.35	3.25	103.52	3.83		
Cap			554.33	550.83	3.25	14.52	0.54		
Pedestals	2.33	3.00	554.72	554.33		5.43	0.20		
PIER 1 STAGE 2	16.63	3.25	554.33	550.83	3.25	188.93	7.00	15.55	16.0
Columns			550.83	538.35	3.25	207.05	7.67		
Cap			554.33	550.83	3.25	14.52	0.54		
Pedestals	2.33	3.00	554.77	554.33		9.30	0.34		
PIER 2 STAGE 1	11.25	3.50	557.32	553.82	3.50	16.84	0.62	18.59	19.0
Footing	7.50	7.50	538.82	535.32		196.88	7.29		
Columns			553.82	538.82	3.50	144.32	5.35		
Cap			557.32	553.82	3.50	137.81	5.10		
Pedestals	2.33	3.00	557.76	557.32		6.20	0.23		
PIER 2 STAGE 2	16.75	3.50	557.32	553.82	3.50	205.19	7.60	33.84	34.0
Footing	7.50	7.50	538.82	535.32		393.75	14.58		
Columns			553.82	538.82	3.50	288.63	10.69		
Cap			557.32	553.82	3.50	16.84	0.62		
Pedestals	2.33	3.00	557.76	557.32		9.30	0.34		
PIER 3 STAGE 1	11.38	3.25	558.70	555.20	3.25	129.39	4.79	10.47	10.0
Columns			555.20	539.12	3.25	133.42	4.94		
Cap			558.70	555.20	3.25	14.52	0.54		
Pedestals	2.33	3.00	559.09	558.70		5.43	0.20		
PIER 3 STAGE 2	16.63	3.25	558.70	555.20	3.25	189.11	7.00	17.77	18.0
Columns			555.20	539.12	3.25	266.85	9.88		
Cap			558.70	555.20	3.25	14.52	0.54		
Pedestals	2.33	3.00	559.14	558.70		9.30	0.34		

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/23/2025
Checked By:	GWR	4/30/2025
Revised By:		
Backchecked By:		

Item:	202.19	REMOVAL OF SUBSTRUCTURES
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Unit: CY

[illegible]

	Added for unanticipated field conditions:	0.0
	SAY:	143

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
Initials Date
Prepared By: MR 4/9/2025
Checked By: VZ 5/15/2025
Revised By: _____
Backchecked By: _____

Item: 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL Unit: CY

ITEM 203.02 (CY)						
UNCLASSIFIED EXCAVATION AND DISPOSAL						
LOCATION				VOLUME (CF)		CY
*Taken from Inroads Volumes Report Pine Hill				18139.88		672.00
	WIDTH	LENGTH	DEPTH	VOLUME (CF)		
I-87 SHOULDER REPAIR						
SB	2.50	45.00	1.92	215.63		7.99
NB	2.50	45.00	1.92	215.63		7.99
DRIVEWAY	AREA (FT2)	Depth (ft)		Volumne (CF)		
GRAVEL DRIVEWAY @ 12+45	570.00	0.75		427.50		15.83
ASPHALT DRIVEWAY @ 11+40	396.00	0.75		297.00		11.00
ASPHALT DRIVEWAY @ 12+60	1021.00	0.75		765.75		28.36
ASPHALT DRIVEWAY @ STA. 16+75	301.00	0.75		225.75		8.36
Top Soil	PLAN AREA (FT2)	SLOPE CORRECTION FACTOR	AREA (FT2)	Depth (FT)	VOLUME (CF)	
Begin Left	1539.00	1.12	1723.68	0.33	574.56	21.28
Begin Right	2907.00	1.12	3255.84	0.33	1085.28	40.20
End Left	1175.00	1.12	1316.00	0.33	438.67	16.25
End Right	2458.00	1.12	2752.96	0.33	917.65	33.99
<p>203-4.01 General. Quantities for all items of work with payment units in cubic yards will be computed from payment lines shown in the contract documents. Work performed beyond any designated payment line, including any offset required for the construction of presplit rock slopes in lifts, will not be included in the computation of quantities for the item involved.</p> <p>For any item paid for in its final position, no additional quantity will be measured for payment to make up losses due to foundation settlement, compaction, erosion or any other cause.</p> <p>Cross-sectioning, for the purpose of determining quantities for payment, will be employed only where payment lines are not shown in the contract documents or Standard Sheets, and cannot be reasonably established by the Engineer.</p> <p>Quantities for benching will be computed for payment from the details and instructions shown on the Standard Sheet <i>Earthwork Transition and Benching Details</i>.</p> <p>The excavation of unsuitable materials designated as topsoil under Section 713 <i>Topsoil</i>, will be included in the quantity measured for the appropriate unclassified excavation item, without distinction..</p> <p>Where the item, "Embankment in Place," is designated for the project by the proposal, all borrow of ordinary suitable materials shall be incidental to the work of that item.</p>						
TOTAL:						863.24
Added for unanticipated field conditions:						0.0
SAY:						864

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: _____ AECOM

	Initials	Date
Prepared By:	MR	4/9/2025
Checked By:	VZ	5/15/2025
Revised By:		
Backchecked By:		

Item:	203.03	EMBANKMENT IN PLACE	Unit: CY
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ITEM 203.03 (CY)									
EMBANKMENT IN PLACE									
LOCATION	Area (SF)	Modifier	Average Bot.Elev. (FT)	Average Top.Elev. (FT)	Depth (FT)	VOLUME (CF)	VOLUME (CY)		CY
Assume only embankment required to fill structural excavation									
Highway Estimate will include the rest									
From CAD, CUT/Fill Summary - Excavation Volume									
BEGIN Abutment Stage 1									
Structural Excavation							192.14		
In front of Proposed Abutment (Below Select Granular Fill + Bedding)	222.00	0.50	537.50	540.25	2.75	305.25	11.31		
Embankment over Wingwall Footing at Toe	71.00	1.00	540.00	545.00	5.00	355	13.15		
							216.60		216.60
BEGIN Abutment Stage 2									
Structural Excavation							104.54		
In front of Proposed Abutment (Below Select Granular Fill + Bedding)	252.00	0.50	537.50	540.25	2.75	346.5	12.83		
Embankment over Wingwall Footing at Toe	66.00	1.00	540.00	545.50	5.50	363	13.44		
							130.82		130.82
PIER Stage 1									
From ITEM 206.01, (Highway Embankment Material)							104.20		
							104.20		104.20
PIER Stage 2									
From ITEM 206.01, (Highway Embankment Material)							120.00		
							120.00		120.00
END Abutment Stage 1									
Structural Excavation							271.79		
In front of Proposed Abutment (Below Select Granular Fill + Bedding)	414.00	0.50	539.69	545.75	6.06	1254.42	46.46		
Embankment over Wingwall Footing at Toe	96.00	1.00	544.00	550.00	6.00	576	21.33		
Less Area Behind Lagging	-165.00	1.00	541.50	553.00	11.50	-1897.50	-70.28		
							269.30		269.30
END Abutment Stage 2									
Structural Excavation							380.23		
In front of Proposed Abutment (Below Select Granular Fill + Bedding)	438.00	0.50	539.69	545.75	6.06	1327.14	49.15		
Embankment over Wingwall Footing at Toe	74.00	1.00	544.00	551.00	7.00	518	19.19		
Less Area Behind Lagging	-140.00	1.00	541.50	553.00	11.50	-1610.00	-59.63		
							388.94		388.94
DRIVEWAY	AREA (FT2)	MODIFIER			Assumed Embankment Depth (FT)	VOLUME (CF)	VOLUME (CY)		
ASPHALT DRIVEWAY @ 12'x60.00	2560.00	1.00			2.00	5120.00	189.63		189.63
*Say assumed depth of 2' along the driveway for embankment in place									
HIGHWAY									
From Inroads Volumes Report						19579.97	725.18		
SUBTRACT Top Soil (Behind the Abutment)	PLAN AREA (FT2)	SLOPE CORRECTION FACTOR	AREA (FT2)	Depth (FT)					
Begin Left	1539.00	1.12	1723.68	0.33		574.560	21.28		
Begin Right	2907.00	1.12	3255.84	0.33		1085.280	40.20		
End Left	1175.00	1.12	1316.00	0.33		438.667	16.25		
End Right	2458.00	1.12	2752.96	0.33		917.653	33.99		
Bedding Material Type 2, Item 620.0802							27		
Stone Fill, Item 620.03							26		
	Area (SF)	Modifier	Average Bot.Elev. (FT)	Average Top.Elev. (FT)	Depth (FT)	VOLUME (CF)	VOLUME (CY)		
BEGIN Abutment Stage 1									
Subtract Volume for GRSS wall	102.00	1.00	548.50	557.00	8.50	867.00	32.11		
Subtract Volume for GRSS wall @ Abutment	57.00	1.00	547.00	557.00	10.00	570.00	21.11		
Subtract Volume for Select Structural Fill @ Wingwall	220.00	1.00	546.00	554.00	8.00	1760.00	65.19		
BEGIN Abutment Stage 2									
Subtract Volume for Select Structural Fill @ Abutment	101.00	1.00	547.00	557.00	10.00	1010.00	37.41		
Subtract Volume for Select Structural Fill @ Wingwall	206.00	1.00	547.00	553.00	6.00	1236.00	45.78		
END Abutment Stage 1									
Subtract Volume for GRSS wall	133.00	1.00	554.00	562.70	8.70	1157.10	42.86		
Subtract Volume for GRSS wall @ Abutment	60.00	1.00	551.50	562.70	11.20				

	Added for unanticipated field conditions:	0.0
	SAY:	1,599

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet:
Highway No.:
Date:
Company: AECOM

	Initials	Date
Prepared By:	MR	6/9/2025
Checked By:	AJCE	6/16/2025
Revised By:		
Backchecked By:		

Item: 203.07 SELECT GRANULAR FILL Unit: CY

ITEM 203.07 (CY)						
SELECT GRANULAR FILL						
Location	Width (FT)	Depth (FT)	Length (FT)	Vol. (CF)		CY
Begin Full Depth	2.58	1.83	236.00	1117.72		41.40
Begin Partial Depth	2.83	0.00	32.00	0.00		0.00
End Partial Depth	2.83	0.00	46.00	0.00		0.00
End Full Depth	2.83	1.33	13.00	49.11		1.82
*PIPE DEPTH ASSUMED TO BE 4.5' AT BEGIN SIDE AND 4' AT END SIDE						
203-4.06 Select Granular Fill. Select granular fill will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft ² unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.						
TOTAL:						43.22
Added for unanticipated field conditions:						0.0
SAY:						44

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/30/2025
Checked By:	GWR	4/30/2025
Revised By:		
Backchecked By:		

Unit: CY

ITEM 203.08010017 (CY)									
SELECT GRANULAR FILL, SLOPE PROTECTION (STRUCTURES)									
LOCATION	Length	Width	Depth	APPROX TOP EL 1	APPROX TOP EL 2	*USE TOP	DEPTH (FT)	VOLUME (CF)	CY
Under Begin Abutment	13.50	43	1						21.5
Under End Abutment	24.50	43	1						39.0
203-4.03 Embankment in Place. Embankment in place will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position. Any additional quantity of material required to compensate for embankment settlement shall not be included in the measurement of this item. The quantities of embankment will exclude the total volume of pipes, culverts, other roadway items, and granular backfill within the payment lines for such granular backfill.									
TOTAL:									60.52
Added for unanticipated field conditions:									0.0
SAY:									61

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	4/25/2025
Checked By:	GWR	5/12/2025
Revised By:		
Backchecked By:		

Item: 203.21 SELECT STRUCTURE FILL

Unit: CY

ITEM 203.21 (CY)							
SELECT STRUCTURE FILL							
LOCATION	MODIFIER	AREA (FT2) FROM CAD	BOT EL	*AVG. TOP	DEPTH (FT)	VOLUME (CF)	CY
BEGIN ABUTMENT - Stage 1							
Behind Stem Footing along BAR	1.00	160.00	540.00	554.50	14.50	2320.00	
Behind Stem Footing behind Abt	1.00	60.00	540.00	557.00	17.00	1020.00	
BEGIN ABUTMENT - Stage 2							
Behind Stem Footing along BAL	1.00	206.00	540.00	552.50	12.50	2575.00	
Behind Stem Footing along Abt	1.00	101.00	540.00	557.00	17.00	1717.00	
SEE ST-12, ST-13, ESC-01, AND ESC-02						7632.00	282.67
LOCATION	MODIFIER	AREA (FT2) FROM CAD	BOT EL	*AVG. TOP	DEPTH (FT)	VOLUME (CF)	CY
END ABUTMENT - Stage 1							
Behind Stem Footing along EAR	1.00	266.00	544.00	558.00	14.00	3724.00	
Behind Stem Footing behind Abt	1.00	37.00	544.00	562.70	18.70	691.90	
END ABUTMENT - Stage 2							
Behind Stem Footing along EAL	1.00	172.00	544.00	560.00	16.00	2752.00	
Behind Stem Footing along Abt	1.00	104.00	544.00	562.70	18.70	1944.80	
SEE ST-16, ST-17, ESC-01, AND ESC-02						9112.70	337.51
<i>*Subtract 1' due to subbase below approach slab</i>							
203-4.05 Select Fill. Select fill will be measured in cubic yards, measured to the nearest whole cubic yard, computed in the final compacted position.							
TOTAL:							620.17

Added for unanticipated field conditions:	0.0
SAY:	621

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	6/6/2025
Checked By:	AJCE	6/16/2025
Revised By:		
Backchecked By:		

Unit: CY

ITEM 203.25 (CY)							
SAND BACKFILL							
LOCATION	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CF)			CY
Begin Full Depth	236.00	2.58	2.08	1270.14			47.04
Begin Partial Depth	32.00	2.83	2.42	219.11			8.12
End Partial Depth	46.00	2.83	2.42	314.97			11.67
End Full Depth	13.00	2.83	2.08	76.74			2.84
TOP OF TRENCH ASSUMED AT THE BOTTOM OF SUBBASE							
<p>203-4.14 Sand Backfill. Sand backfill will be measured in cubic yards, measured to the nearest whole cubic yard, in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft² unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.</p>							
TOTAL:							69.67
Added for unanticipated field conditions:							0.0
SAY:							70

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	6/25/2025
Checked By:	GWR	6/27/2025
Revised By:		
Backchecked By:		

Unit: CY

ITEM 204.01 (CY)							
CONTROLLED LOW STRENGTH MATERIAL (CLSM)							
LOCATION	LENGTH (FT)	DIAMETER	AREA (FT2)	VOLUME (CF)			CY
WEST SIDE BRIDGE	250.00	0.50	0.20	24.54			24.54
FROM GNP-01							
<p>203-4.14 Sand Backfill. Sand backfill will be measured in cubic yards, measured to the nearest whole cubic yard, in the final compacted position. A deduction shall be made for pipes (based on nominal diameters) and other payment items when the combined cross-sectional area exceeds 1 ft² unless otherwise shown in the contract documents. No deduction will be made for the cross-sectional area of an existing facility.</p>							
TOTAL:							24.54
Added for unanticipated field conditions:							0.0
SAY:							25

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
Initials Date
Prepared By: MR 4/3/2025
Checked By: VZ 5/13/2025
Revised By: _____
Backchecked By: _____

Item:

206.01

STRUCTURE EXCAVATION

CY

ITEM 206.01 (CY)							
STRUCTURE EXCAVATION							
LOCATION							
BEGIN ABUTMENT STAGE - 1	AREA (SF)	FACTOR	BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	VOLUME (CY)
	86.00	0.25	537.50	547.00	9.50	204.25	*
	187.00	0.50	538.75	549.00	10.25	958.38	*
	250.00	0.25	540.00	552.00	12.00	750.00	*
	121.00	0.25	537.50	544.50	7.00	211.75	*
	348.00	0.50	540.00	552.50	12.50	2557.50	*
	48.00	0.50	552.00	555.00	3.00	72.00	*
	333.00	1.00	537.50	546.00	8.50	2830.50	
	270.00	1.00	537.50	541.00	3.50	945.00	
	154.00	1.00	537.50	545.00	7.50	1155.00	
	102.00	0.50	546.50	548.50	2.00	102.00	
	62.00	1.00	540.00	547.00	7.00	434.00	*
							378.53
BEGIN ABUTMENT STAGE - 2	AREA (SF)	FACTOR	BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	
	60.00	0.25	537.50	544.00	6.50	97.50	*
	66.00	0.50	538.75	545.50	6.75	222.75	*
	99.00	0.25	540.00	547.50	7.50	185.63	*
	276.00	0.50	540.00	552.50	12.50	1725.00	*
	106.00	0.50	552.00	556.00	4.00	212.00	*
	150.00	0.25	537.50	544.00	6.50	243.75	*
	301.00	1.00	537.50	547.50	10.00	3010.00	
	240.00	1.00	537.50	544.50	7.00	1680.00	
	136.00	0.50	546.50	548.50	2.00	136.00	*
	266.00	1.00	537.50	543.00	5.50	1463.00	
							332.43
PIER STAGE - 1	AREA (SF)	FACTOR	AVG. BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	
	81.00	0.25	533.00	539.00	6.00	121.50	*
	68.00	0.50	533.00	538.00	5.00	170.00	*
	38.00	0.25	533.00	538.00	5.00	47.50	*
	130.00	0.50	533.00	538.00	5.00	325.00	*
	188.00	0.50	533.00	539.50	6.50	611.00	*
	45.00	0.25	533.00	538.00	5.00	56.25	*
	90.00	0.25	533.00	539.50	6.50	146.25	*
	167.00	1.00	530.50	538.50	8.00	1336.00	*
							104.20
PIER STAGE - 2	AREA (SF)	FACTOR	AVG. BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	
	68.00	0.50	533.00	539.00	6.00	204.00	*
	81.00	0.25	533.00	540.50	7.50	151.88	*
	38.00	0.25	533.00	539.00	6.00	57.00	*
	215.00	0.50	533.00	540.00	7.00	752.50	*
	149.00	0.50	533.00	539.00	6.00	447.00	*
	77.00	0.25	533.00	540.00	7.00	134.75	*
	36.00	0.25	533.00	538.00	5.00	45.00	*
	181.00	1.00	530.50	538.50	8.00	1448.00	*
							120.00
END ABUTMENT STAGE - 1	AREA (SF)	FACTOR	BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	
	52.00	0.25	541.50	548.50	7.00	91.00	*
	128.00	0.50	542.75	551.00	8.25	528.00	*
	156.00	0.25	544.00	554.50	10.50	409.50	*
	229.00	0.25	541.50	548.50	7.00	400.75	*
	637.00	0.50	544.00	559.00	15.00	4777.50	*
	136.00	0.50	557.50	564.00	6.50	442.00	*
	460.00	1.00	541.50	552.50	11.00	5060.00	
	133.00	1.00	544.00	554.00	10.00	1330.00	
	157.00	1.00	541.50	550.00	8.50	1334.50	
	457.00	0.50	537.88	544.00	6.12	1398.42	
	197.00	0.50	544.00	551.00	7.00	689.50	*
Less Area Behind Lagging	-165.00	1.00	541.50	553.00	11.50	-1897.50	
							539.40
END ABUTMENT STAGE - 2	AREA (SF)	FACTOR	BOT. ELEV.	AVG. TOP ELEV.	DEPTH	VOLUME (CF)	
	250.00	0.25	541.50	554.00	12.50	781.25	*
	343.00	0.50	542.75	558.00	15.25	2615.38	*

*Backfill under 203.03

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87 Village of Woodbury, Orange County, NY AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/3/2025
Checked By:	VZ	5/13/2025
Revised By:		
Backchecked By:		

Item:	206.01	STRUCTURE EXCAVATION
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	571.00	0.25	544.00	561.00	17.00	2426.75	
	180.00	0.25	541.50	549.00	7.50	337.50	
	218.00	0.50	544.00	560.00	16.00	1744.00	
	145.00	0.50	557.50	564.00	6.50	471.25	
	342.00	1.00	541.50	553.00	11.50	3933.00	
	189.00	1.00	544.00	554.00	10.00	1890.00	
	152.00	1.00	541.50	550.00	8.50	1292.00	
	476.00	0.50	537.88	544.00	6.12	1456.56	
Less Area Behind Lagging	-140.00	1.00	541.50	553.00	11.50	-1610.00	
							568.06
206-4 METHOD OF MEASUREMENT.							
206-4.01 General. The quantity of excavation will be in cubic yards, to the nearest whole cubic yard, computed from payment lines shown on the plans or the appropriate standard sheets. Work performed beyond any designated payment line will not be included in the computation of quantities for the item involved.							
206-4.02 Structure Excavation. Vacant.							
TOTAL:							2042.63
Added for unanticipated field conditions:							0.0
SAY:							2,043

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	6/9/2025
Checked By:	AJCE	6/16/2025
Revised By:		
Backchecked By:		

CY

ITEM 206.0201 (CY)						
TRENCH AND CULVERT EXCAVATION						
Location	Width (FT)	Depth (FT)	Length (FT)	Vol. (CF)		CY
Begin Full Depth	2.58	3.92	236.00	2387.86		88.44
Begin Partial Depth	2.83	2.42	32.00	219.11		8.12
End Partial Depth	2.83	2.42	46.00	314.97		11.67
End Full Depth	2.58	3.92	13.00	131.53		4.87
*PIPE DEPTH ASSUMED TO BE 4.5' AT BEGIN SIDE AND 4' AT END SIDE						
TOP OF TRENCH ASSUMED AT THE BOTTOM OF SUBBASE						
<p>206-4.03 Trench and Culvert Excavation. Unless otherwise shown or indicated on the contract plans, payment lines for excavation of pipe and culvert lines, and minor structures will be determined as follows:</p> <p>A. Bottom Payment Line. The elevation of the bottom payment line will be the invert elevation of the pipe, conduit, or culvert. For pipes, conduits, or culverts of nominal horizontal dimensions of 12 to 144 inches, the width of the excavations at the bottom payment line will be the nominal inside horizontal dimension of the pipe, conduit, or culvert plus 4 feet, or three (3) times the nominal inside horizontal dimension, whichever is less; for pipes with a nominal horizontal dimension greater than 144 inches the width will be as shown on the appropriate standard sheets or in the contract documents. For concrete and smooth interior corrugated polyethylene pipe, twice the minimum wall thickness will be added to the preceding. For concrete pipe, the bottom payment line is the Bedding Control Line shown on the applicable standard sheet.</p> <p>B. Top Payment Line. The top payment line will be the surface at the centerline of the pipe, culvert or conduit immediately prior to commencing trench excavation.</p> <p>C. Side Payment Lines. The side payment lines of the excavation will be vertical to the bottom payment line. For utility lines, exclusive of conduit and cable lines, of less than 12-inch diameter, the excavation width will be the actual bottom width necessary, as determined by the Engineer, to properly perform the installation work required, or 3 feet, whichever is less.</p> <p>D. Payment Lines for Minor Structures. Payment lines for minor structures will be vertical from the bottom of the footing and will extend vertically from a line 2 feet from the perimeter of the structure footing. The top payment line shall be the same as for (B) above. The bottom payment line will be the bottom of footing elevation, or the bottom of undercut elevation as directed by the Engineer.</p>						
TOTAL:						113.09
Added for unanticipated field conditions:						0.0
SAY:						114

Sheet:		
Highway No.:		
Date:		
Company:	AECOM	
	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	VZ	4/30/2025
Revised By:		
Backchecked By:		

Item:	206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATION	Unit: LF
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[illegible]

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	VZ	5/28/2025
Revised By:		
Backchecked By:		

Item: 206.03120025	CONDUIT INSTALLATION ON ABOVE GRADE STRUCTURES	Unit: LF
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ITEM 206.03120025 (LF)							
CONDUIT INSTALLATION ON ABOVE GRADE STRUCTURES							
							LF
Measured From ITS-01							
From Stainless Steel enclosure to CL between farther group of antennas							116.00
From Stainless Steel Enclosure to CL between closer group of antennas							49.00
From Proposed Grade till NEMA Steel Enclosure							15.00
TOTAL:							180.00
Added for unanticipated field conditions:							0.0
SAY:							180

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	GWR	4/28/2025
Revised By:		
Backchecked By:		

Item:	206.05	TEST PIT EXCAVATION	EACH
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ITEM 206.05 (EACH)							
TEST PIT EXCAVATION							
							EA
From GNP-01							1.0
206-4.05 Test Pits. The quantity to be measured for payment will be the number of test holes excavated and backfilled in accordance with the contract documents.							
TOTAL:							1.00

Added for unanticipated field conditions:		0.0
SAY:		1

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Prepared By: MR 4/17/2025
Checked By: AJCE 4/28/2025
Revised By: _____
Backchecked By: _____

Item: 207.26 PREFABRICATED COMPOSITE STRUCTURAL DRAIN

Unit: SY

ITEM 207.26 (SY)								
PREFABRICATED COMPOSITE STRUCTURAL DRAIN								
LOCATION	BOT EL.	TOP EL. 1	TOP EL. 2	*USE TOP	LENGTH (FT)	HEIGHT (FT)	AREA (SF)	SY
STAGE 1								
BEGIN ABUTMENT								
Stem	540.00	557.79	558.07	557.93	17.92	17.93	321.25	68.5
Backwall Step	540.00	557.79	NA	557.79	4.96	17.79	88.21	
BAR Wingwall	540.00	559.29	551	553.48	15.37	13.48	207.14	
STAGE 2								
BEGIN ABUTMENT								
Stem	540.00	557.79	558.07	557.93	19.42	17.93	348.14	72.6
Backwall Step	540.00	557.79	NA	557.79	4.96	17.79	88.21	
BAL Wingwall	540.00	559.29	549	552.48	17.41	12.48	217.14	
STAGE 1								
END ABUTMENT								
Stem	544.00	563.42	563.7	563.56	17.92	19.56	350.45	85.7
Backwall Step	544.00	563.42	NA	563.42	4.96	19.42	96.29	
EAR Wingwall	544.00	564.92	552	556.79	25.41	12.79	324.95	
STAGE 2								
END ABUTMENT								
Stem	544.00	563.42	563.7	563.56	19.42	19.56	379.79	77.4
Backwall Step	544.00	563.42	NA	563.42	4.96	19.42	96.29	
EAL Wingwall	544.00	564.92	557	559.29	14.40	15.29	220.18	
*NOTE, 1'-8" SUBTRACTED FROM AVERAGE TOP ELEVATION ON THE WINGWALLS, PER DETAIL								
<p>15. IF A WEEPHOLE IS WITHIN 4'-0" OF THE TOP OF FOOTING, EXTEND THE PREFABRICATED COMPOSITE STRUCTURAL DRAIN TO THE TOP OF THE FOOTING, OTHERWISE, STOP THE DRAIN 1'-0" BELOW THE WEEPHOLE INVERT ELEVATION.</p> <p>16. COFFERDAM LEGEND DESIGNATIONS SHOULD BE SERIALIZED BY EACH SUBSTRUCTURE EXCAVATION (C1, C2, C3, ETC.).</p> <p>17. PREFABRICATED COMPOSITE STRUCTURAL DRAIN (PCSD) SHALL BE PLACED TO THE LEVEL OF THE BOTTOM OF THE APPROACH SLAB ON ABUTMENT STEMS.</p>								
207-4.03 Prefabricated Composite Drains for Structures. The quantity of PCSD or PCIAD will be measured in square yards installed computed from the payment lines indicated in the contract documents.								
TOTAL:								304.20

Added for unanticipated field conditions:	0.0
SAY:	305

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/16/2025
Checked By:	GWR	5/20/2025
Revised By:		
Backchecked By:		

Item:	209.1003	SEED AND MULCH - TEMPORARY
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SY

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	GWR	4/29/2025
Revised By:		
Backchecked By:		

Item:	209.24	Geotextile Filter Bag (Dewatering)	EACH
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ITEM 209.24 (EACH)							
Geotextile Filter Bag (Dewatering)							
Location							EA
							1.0
METHOD OF MEASUREMENT							
The quantity shall be the number of bags installed, in accordance with the contract documents or as directed by the Engineer.							
TOTAL:							1.00
Added for unanticipated field conditions:							0.0
SAY:							1

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/15/2025
Checked By:	VZ	5/16/2025
Revised By:		
Backchecked By:		

Item:	209.1701	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY
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Unit: LF

ITEM 209.1701 (LF)							
DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY							
							LF
							40.0
<p>209-4.11 Drainage Structure Inlet Protection-Temporary. This work will be measured as the number of linear feet to the nearest whole linear foot of drainage structure inlet protection installed. No additional measurements will be made for seams or overlaps.</p>							
TOTAL:							40.00
Added for unanticipated field conditions:							0.0
SAY:							40

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87 Village of Woodbury, Orange County, NY AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/5/2025
Checked By:	GWR	5/6/2025
Revised By:		
Backchecked By:		

Item:	209.190301	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE C, INTERMEDIATE	Unit: SY
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[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	AJCE	4/22/2025
Revised By:		
Backchecked By:		

EACH

Added for unanticipated field conditions:	0.0
SAY:	1

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	AJCE	4/25/2025
Revised By:		
Backchecked By:		

Item:	210.480101	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM	LF
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[illegible]

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87 Village of Woodbury, Orange County, NY AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	AJCE	4/25/2025
Revised By:		
Backchecked By:		

Item:	210.480102	REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM	LF
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[illegible]

Added for unanticipated field conditions:	0.0
SAY:	876.0

Sheet:		
Highway No.:		
Date:		
Company:	AECOM	
	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	AJCE	4/28/2025
Revised By:		
Backchecked By:		

Item:	304.12	SUBBASE COURSE, TYPE 2	Unit: CY
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[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	AJCE	4/24/2025
Revised By:		
Backchecked By:		

Unit: TON

ITEM 404.09720025 (TON)									
9.5 F2 Top Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring									
LOCATION	Length	Depth	Width	Volume (CF)	Density (LB/CF)				TON
NB Shoulder	45.00	0.17	4.00	30.00	145.00				2.18
SB Shoulder	45.00	0.17	4.00	30.00	145.00				2.18
Density of Asphalt taken from RDI 14-04, NYSDOT									
404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.									
TOTAL:									4.35
Added for unanticipated field conditions:									0.0
SAY:									4.35

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	AJCE	4/24/2025
Revised By:		
Backchecked By:		

Item:	404.12730025	12.5 F3 Top Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring
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Unit: TON

ITEM 404.12730025 (TON)								
12.5 F3 Top Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring								
LOCATION	Length (FT)	Depth (FT)	Width (FT)	Volume (CF)	Density (LB/CF)			TON
STA 1071.13 to 1096.13	25.00	0.21	34.50	179.69	145.00			13.03
STA 1651.85 to 1725.00	74.00	0.21	27.75	427.81	145.00			31.02
Total Volume from Highway Report				2295.00				
Subtract Begin Sleeper Slab	2.00	0.21	33.67	14.14				
Subtract End Sleeper Slab	2.00	0.21	33.67	14.14				
Net Volume at End Bridge				2266.72	145.00			164.34
<i>Density of Asphalt taken from RDI 14-04, NYSDOT</i>								
404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.								
TOTAL:								208.38
Added for unanticipated field conditions:								0.0
SAY:								208.38

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	VZ	5/30/2025
Revised By:		
Backchecked By:		

Item:	404.19790025	19 F9 Binder Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring
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Unit: TON

ITEM 404.19790025 (TON)								
19 F9 Binder Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring								
LOCATION	Length (FT)	Depth (FT)	Width (FT)	Volume (CF)	Density (LB/CF)			TON
NB Shoulder	45.00	0.25	4.00	45.00	145.00			3.26
SB Shoulder	46.00	0.25	4.00	46.00	145.00			3.34
Total Volume from Highway Report				2338.00				
Subtract Begin Sleeper Slab	2.00	0.21	33.67	14.14				
Subtract End Sleeper Slab	2.00	0.21	33.67	14.14				
Net Volume at End Bridge				2309.72	145.00			167.45
Density of Asphalt taken from RDI 14-04, NYSDOT								
<p>404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.</p>								
TOTAL:								174.05
Added for unanticipated field conditions:								0.0
SAY:								174.05

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	AJCE	4/22/2025
Revised By:		
Backchecked By:		

Item:	404.25790025	25 F9 Binder Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring	Unit: TON
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ITEM 404.25790025 (TON)									
25 F9 Binder Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring									
LOCATION				Volume (CF)	Density (LB/CF)				TON
Total Volume from Highway Report (assuming 3" thk. Base course)				2665.00					
Subtract Begin Sleeper Slab	2.00	0.25	33.67	16.84					
Subtract End Sleeper Slab	2.00	0.25	33.67	16.84					
Net Volume at End Bridge				2631.33	145.00				190.77
Density of Asphalt taken from RDI 14-04, NYSDOT									
<p>404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.</p>									
									TOTAL:
									190.77

Added for unanticipated field conditions:		0.0
SAY:		190.77

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
Initials Date
Prepared By: MR 1/9/2025
Checked By: AJCE 4/24/2025
Revised By: _____
Backchecked By: _____

Item: 404.37790025 37.5 F9 Base Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring Unit: TON

ITEM 404.37790025 (TON)									
37.5 F9 Base Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring									
LOCATION	Length	Depth	Width	Volumne (CF)	Density (LB/CF)				TON
NB Shoulder	45.00	0.50	4.00	90.00	145.00				6.53
SB Shoulder	45.00	0.50	4.00	90.00	145.00				6.53
Density of Asphalt taken from RDI 14-04, NYSDOT									
404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.									
TOTAL:									13.05

Added for unanticipated field conditions:		0.0
SAY:		13.05

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	3/31/2025
Checked By:	AJCE	4/24/2025
Revised By:		
Backchecked By:		

Unit: TON

ITEM 404.4289 (TON)									
12.5 F9 Temporary Top Course Asphalt, 80 Series Compaction									
	Length (FT)	Depth (FT)	Width (FT)	Volumne (CF)	Density (LB/CF)				TON
Stage 1 Pine Hill Road									
Along Structure	219.00	0.17	1.67	62.05	145.00				4.50
	Area (SF)	Depth (FT)	Width (FT)	Volumne (CF)	Density (LB/CF)				
At East Abutment	58.00	0.17	NA	9.86	145				0.71
At West Abutment	23.00	0.17	NA	3.91	145				0.28
Density of Asphalt taken from RDI 14-04, NYSDOT									
404-4.01 Asphalt. The quantity of asphalt mixture to be measured for payment will be measured in tons and rounded to the nearest 0.01 tons. Requirements of §401-4 shall apply.									
TOTAL:									5.50
Added for unanticipated field conditions:									0.0
SAY:									5.50

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	AJCE	4/22/2025

Revised By: _____
Backchecked By: _____

Unit: GAL

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	VZ	5/30/2025
Revised By:		
Backchecked By:		

Item:	418.7603	ASPHALT PAVEMENT JOINT ADHESIVE
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Unit: LF

ITEM 418.7603 (LF)									
ASPHALT PAVEMENT JOINT ADHESIVE									
LOCATION									LF
From GNP-01:									
At 10+71.13									36.0
From 10+71.13 to 13+37.95									801.0
From 15+50.45 to 17+25.00									525.0
At 17+25.00									27.00
At NB Shoulder Repair									53.00
At SB Shoulder Repair									53.00
418-4 METHOD OF MEASUREMENT									
This work will be measured as the number of linear feet of joint adhesive satisfactorily furnished and installed.									
TOTAL:									1495.00
Added for unanticipated field conditions:									0.0
SAY:									1,495

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 4/14/2025
Checked By: GWR 4/28/2025
Revised By: _____
Backchecked By: _____

Item: 552.2001 HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL

Unit: LF

ITEM 552.2001 (LF)									
HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL									
Location	Top Elev	Top of Rock							LF
Pile 1 - Stage 1	552.04	541.50							10.54
Pile 2 - Stage 1	552.04	541.50							10.54
Pile 3 - Stage 1	552.04	541.50							10.54
Pile 4 - Stage 1	552.04	541.50							10.54
Pile 5 - Stage 2	552.04	541.50							10.54
Pile 6 - Stage 2	552.04	541.50							10.54
Pile 7 - Stage 2	552.04	541.50							10.54
Pile 8 - Stage 2	552.04	541.50							10.54
Pile 9 - Stage 2	552.04	541.50							10.54
<div style="background-color: #ffffcc; display: inline-block; padding: 2px 5px; margin-bottom: 5px;">552-4.06 Soldier Pile and Lagging Wall.</div> <p><i>A. Holes in Earth.</i> The quantity to be measured for payment will be in feet of holes in earth installed. The upper payment limit is the intersected grade or ground line whichever is lower. For holes requiring rock sockets, the lower payment limit is the top of rock. For holes without rock sockets, the lower payment limit is the pile tip elevation.</p>									
TOTAL:									94.86
Added for unanticipated field conditions:									0.0
SAY:									95
Unit Bid price:									
Price: \$									-

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 4/14/2025
Checked By: GWR 4/28/2025
Revised By: _____
Backchecked By: _____

Item: 552.2101 ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL

Unit: LF

ITEM 552.2101 (LF)									
ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL									
Location									LF
Pile 1 - Stage 1									6.00
Pile 2 - Stage 1									6.00
Pile 3 - Stage 1									6.00
Pile 4 - Stage 1									6.00
Pile 5 - Stage 2									6.00
Pile 6 - Stage 2									6.00
Pile 7 - Stage 2									6.00
Pile 8 - Stage 2									6.00
Pile 9 - Stage 2									6.00
B. Rock Sockets. The quantity to be measured for payment will be in feet of sockets in rock installed. The upper payment limit is the top of rock as shown on the plans. The lower payment limit is the pile tip elevation.									
TOTAL:									54.00
Added for unanticipated field conditions:									0.0
SAY:									54
Unit Bid price:									
Price:									\$ -

PIN: TANY 26-17B
 BIN: 5514280
 Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
 Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

Initials Date
 Prepared By: MR 4/14/2025
 Checked By: GWR 4/28/2025
 Revised By: _____
 Backchecked By: _____

Item: 552.2201 SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL

Unit: LF

ITEM 552.2201 (LF)									
SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL									
Location									LF
Pile 1 - Stage 1									17.00
Pile 2 - Stage 1									17.00
Pile 3 - Stage 1									17.00
Pile 4 - Stage 1									17.00
Pile 5 - Stage 2									17.00
Pile 6 - Stage 2									17.00
Pile 7 - Stage 2									17.00
Pile 8 - Stage 2									17.00
Pile 9 - Stage 2									17.00
552-4.06 Soldier Pile and Lagging Wall.									
<i>A. Holes in Earth.</i> The quantity to be measured for payment will be in feet of holes in earth installed. The upper payment limit is the intersected grade or ground line whichever is lower. For holes requiring rock sockets, the lower payment limit is the top of rock. For holes without rock sockets, the lower payment limit is the pile tip elevation.									
<i>B. Rock Sockets.</i> The quantity to be measured for payment will be in feet of sockets in rock installed. The upper payment limit is the top of rock as shown on the plans. The lower payment limit is the pile tip elevation.									
<i>C. Soldier Piles.</i> The quantity to be measured for payment will be in feet of soldier piles installed. The upper payment limit is the pile top elevation. The lower payment limit is the pile tip elevation.									
<i>D. Lagging.</i> The quantity of lagging to measure for payment will be the number of square feet, to the nearest square foot, between the payment lines shown in the contract documents.									
TOTAL:									153.00
<div style="text-align: right;">Added for unanticipated field conditions:</div> <div style="text-align: right;">SAY:</div>									
									0.0 153
<div style="text-align: right;">Unit Bid price:</div> <div style="text-align: right;">Price: \$</div>									
									-

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 4/17/2025
Checked By: GWR 4/28/2025
Revised By: _____
Backchecked By: _____

Item: 552.230201 UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL

Unit: SF

ITEM 552.230201 (SF)								
UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL								
Location	Height (ft)	Width (ft)		Area (SF)				SF
Begin - Stage 1	7.50	9.125		34.22				34.00
Bay 1 - Stage 1	11.54	7.5		86.55				87.00
Bay 2 - Stage 1	11.54	7		80.78				81.00
Bay 3 - Stage 1	11.54	6.583		75.97				76.00
Bay 4 - Stage 1	11.54	12.82		147.94				148.00
Begin - Stage 2	11.54	2.5		28.85				
Bay 5 - Stage 2	11.54	7		80.78				81.00
Bay 6 - Stage 2	11.54	7		80.78				81.00
Bay 7 - Stage 2	11.54	8.67		100.05				100.00
Bay 8 - Stage 2	11.54	7.42		85.59				86.00
End - Stage 2	11.54	11.27		130.02				130.00
C. Soldier Piles. The quantity to be measured for payment will be in feet of soldier piles installed. The upper payment limit is the pile top elevation. The lower payment limit is the pile tip elevation.								
D. Lagging. The quantity of lagging to measure for payment will be the number of square feet, to the nearest square foot, between the payment lines shown in the contract documents.								
TOTAL:								904.00
Added for unanticipated field conditions:								
SAY:								904
Unit Bid price:								
Price:								\$ -

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 4/9/2025
Checked By: GWR 4/29/2025
Revised By: _____
Backchecked By: _____

Item: 555.0011 Footing Concrete, Performance

Unit: CY

ITEM 555.0011 (CY)								
Footing Concrete, Performance								
LOCATION	LENGTH (FT)	WIDTH (FT)	TOP EL.	BOT EL.	PLAN AREA (SF)	VOLUME (CF)	SUBTOT. (CY)	CY
Assumed Average Footing thickness @ Begin and End Abutment (FT) =			3					
Assumed Average Footing thickness @ Pier (FT) =			3					
ABUT FOOTING	14.82	11.00	540.00	537.00	163.05	489.16	18.12	
	24.66	13.00	540.00	537.00	320.53	961.59	35.61	
BEGIN POUR 1 STAGE 1								53.7
PIER FOOTING	17.67	9.00	533.00	530.00	159.00	477.00	17.67	
PIER POUR 1 STAGE 1								17.7
ABUT FOOTING	15.03	11.25	544.00	541.00	169.10	507.30	18.79	
	34.41	13.00	544.00	541.00	447.28	1341.84	49.70	
END POUR 1 STAGE 1								68.5
ABUT FOOTING	16.32	11.00	540.00	537.00	179.55	538.66	19.95	
	27.66	13.00	540.00	537.00	359.53	1078.59	39.95	
BEGIN POUR 6 STAGE 2								59.9
PIER FOOTING	20.83	9.00	533.00	530.00	187.50	562.50	20.83	
PIER POUR 4 STAGE 2								20.8
ABUT FOOTING	16.53	11.25	544.00	541.00	185.98	557.93	20.66	
	23.41	13.00	544.00	541.00	304.28	912.84	33.81	
END POUR 6 STAGE 2								54.5
555-4 METHOD OF MEASUREMENT								
555-4.01 Concrete for Structures. The work will be measured for payment as the number of cubic yards of concrete for structures satisfactorily placed, measured to the nearest 0.1 cubic yard within the lines of the structure as shown in the contract documents. No deductions shall be made for the volume of joint material, embedded metal reinforcement, structural shapes, chamfers, tops of piles, or pipe with an end area of less than 1 sf.								
TOTAL:								275.10

Added for unanticipated field conditions:	0.0
SAY:	275.1

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/7/2025
Checked By:	GWR	4/30/2025
Revised By:		
Backchecked By:		

Unit: CY

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/18/2025
Checked By:	GWR	4/30/2025
Revised By:		
Backchecked By:		

Item:	555.0022	Concrete for Structures, Performance - Internal Cure
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Unit: CY

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/21/2025
Checked By:	GWR	8/11/2025
Revised By:		
Backchecked By:		

Item:	556.0203	GALVANIZED BAR REINFORCEMENT FOR STRUCTURES
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Unit: LB

ITEM 556.0203 (LB)																																															
GALVANIZED BAR REINFORCEMENT FOR STRUCTURES																																															
LOCATION											LB																																				
ABUTMENTS	(From Bar List)										38490.00																																				
PIER	(From Bar List)										18407.00																																				
<p>556-4.02 Bar Reinforcement. These will be measured as the number of pounds of steel bars placed. The weight of bar reinforcing will be computed by the Engineer utilizing the unit mass for each size bar as given in Table 556-1. No allowance will be made for the weight of any coating on the bars.</p> <table><tr><th colspan="12">TABLE 556-1 UNIT WEIGHT OF DEFORMED BARS</th></tr><tr><th>Bar Number</th><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>14</td><td>18</td></tr><tr><th>Weight (lb/ft)</th><td>0.376</td><td>0.668</td><td>1.043</td><td>1.502</td><td>2.044</td><td>2.670</td><td>3.400</td><td>4.303</td><td>5.313</td><td>7.650</td><td>13.60</td></tr></table> <p>NOTE. Bar Numbers are bar sizes in numbers of eighths of an inch.</p>												TABLE 556-1 UNIT WEIGHT OF DEFORMED BARS												Bar Number	3	4	5	6	7	8	9	10	11	14	18	Weight (lb/ft)	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
TABLE 556-1 UNIT WEIGHT OF DEFORMED BARS																																															
Bar Number	3	4	5	6	7	8	9	10	11	14	18																																				
Weight (lb/ft)	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60																																				
TOTAL:											56897.00																																				
Added for unanticipated field conditions:											0.0																																				
SAY:											56,897.0																																				

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
Initials Date
Prepared By: MR 1/8/2024
Checked By: GWR 5/5/2025
Revised By: _____
Backchecked By: _____

Item: 556.03 STUD SHEAR CONNECTORS FOR BRIDGES Unit: EACH

ITEM 556.03 (EACH)									
STUD SHEAR CONNECTORS FOR BRIDGES									
LOCATION	FROM ST- XX								EACH
	LENGTH (FT)	SPACING (IN)	STUDS						
	60.00	9	2				160.00		
	22.00	24	2				22.00		
	76.00	12	2				152.00		
							2.00		
	158.00								
				# Girders	6		336.00		2016.00
556-4.03 Stud Shear Connectors for Bridges. Stud Shear Connectors will be measured as each connector placed.									
TOTAL:									2016.00
Added for unanticipated field conditions:								0.0	
SAY:								2,016	

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/6/2025
Checked By:	GWR	5/7/2025
Revised By:		
Backchecked By:		

Item:	557.1013	Structural Approach Slab with Integral Wearing Surface	Type 3 Friction
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Unit: SY

ITEM 557.1013 (SY)									
Structural Approach Slab with Integral Wearing Surface Type 3 Friction									
LOCATION	OUT TO OUT WIDTH (FT)	BEG STA.	END STA.	LENGTH (FT)	AREA (SF)	SUBTRACT (SF)			SY
STAGE 1									
BEG. SLP. SLAB	16.08			6	96.5				10.7
BEG APR. SLAB	16.08	1362.94	1337.94	25	402.1	0.28			44.7
END APR. SLAB	16.08	1525.44	1550.44	25	402.1	0.28			44.7
END SLP. SLAB	16.08			6	96.5				10.7
STAGE 2									
BEG. SLP. SLAB	17.58			6	105.5				11.7
BEG APR. SLAB	17.58	1362.94	1337.94	25	439.6	0.28			48.8
END APR. SLAB	17.58	1525.44	1550.44	25	439.6	0.28			48.8
END SLP. SLAB	17.58			6	105.5				11.7
557-4 METHOD OF MEASUREMENT. The work will be measured for payment in square yards of superstructure slab, approach slab, or sidewalk and safety walks installed, measured to the nearest 0.1 square yards. Winter surface treatment of superstructure and approach slabs will be measured for payment in square yards of superstructure and approach slab, measured to the nearest 0.1 square yard.									
TOTAL:									231.8
Added for unanticipated field conditions:									0.0
SAY:									231.8

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	5/6/2025
Checked By:	GWR	5/7/2025
Revised By:		
Backchecked By:		

Unit: SY

ITEM 557.29 (SY)									
WINTER SURFACE TREATMENT - SUPERSTRUCTURE SLABS AND STRUCTURAL APPROACH SLABS									
LOCATION	OUT TO OUT WIDTH (FT)	BEG STA.	END STA.	LENGTH (FT)	AREA (SF)				SY
STAGE 1									
BRIDGE	17.75	1362.94	1525.44	162.5	2884.4				320.5
BEG SLP. SLAB	16.08			2	32.2				3.6
BEG APR. SLAB	16.08	1337.94	1362.94	25	402.1				44.7
END APR. SLAB	16.08	1525.44	1550.44	25	402.1				44.7
END SLP. SLAB	16.08			2	32.2				3.6
	LENGTH (FT)	WIDTH (FT)		AREA (SF)	TOTAL AREA (SF)				
EXTRA @ ABUT (LEFT)	1.67	0.75		1.53125	3.0625				0.4
STAGE 2									
BRIDGE	17.00	1362.94	1525.44	162.5	2762.5				307.0
EXTRA @ ABUT (RIGHT)	1.67	0.75		1.53125	3.0625				0.4
BEG SLP. SLAB	17.58			2	35.2				4.0
BEG APR. SLAB	17.58	1337.94	1362.94	25	439.6				48.9
END APR. SLAB	17.58	1525.44	1550.44	25	439.6		93.50		48.9
END SLP. SLAB	17.58			2	35.2				4.0
	LENGTH (FT)	WIDTH (FT)		AREA (SF)	TOTAL AREA (SF)				
EXTRA @ ABUT (RIGHT)	1.67	0.75		1.53125	3.0625				0.4
							841.50		
CLOSURE									
BRIDGE	2.25	1362.94	1525.44	162.5	365.6				40.7
557-4 METHOD OF MEASUREMENT. The work will be measured for payment in square yards of superstructure slab, approach slab, or sidewalk and safety walks installed, measured to the nearest 0.1 square yards. Winter surface treatment of superstructure and approach slabs will be measured for payment in square yards of superstructure and approach slab, measured to the nearest 0.1 square yard.									
TOTAL:									871.80
Added for unanticipated field conditions:									0.0
SAY:									871.8

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	12/26/2024
Checked By:	GWR	1/3/2025
Revised By:		
Backchecked By:		

Unit: QU

[illegible]

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/1/2025
Checked By:	GWR	4/28/2025
Revised By:		
Backchecked By:		

Item:	558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE
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Unit: SY

ITEM 558.02 (SY)								
LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE								
LOCATION	WIDTH (FT)	BEG STA	END STA	LENGTH (FT)	SF			SY
STAGE 1								
BEG SLP. SLAB	16.08			2	32.2			4.0
BEG APR. SLAB	16.08	1362.94	1337.94	25	402.1			45.0
BRIDGE	16.25	1362.94	1525.44	162.5	2640.6			293.0
END APR. SLAB	16.08	1525.44	1550.44	25	402.1			45.0
END SLP. SLAB	16.08			2	32.2			4.0
STAGE 2								
BEG SLP. SLAB	17.58			2	35.2			4.0
BEG APR. SLAB	17.58	1362.94	1337.94	25	439.6			49.0
BRIDGE	15.50	1362.94	1525.44	162.5	2518.8			280.0
END APR. SLAB	17.58	1525.44	1550.44	25	439.6			49.0
END SLP. SLAB	17.58			2	35.2			4.0
CLOSURE								
BRIDGE	2.25	1362.94	1525.44	162.5	365.6			41.0
558-4 METHOD OF MEASUREMENT. The quantity will be measured as the number of square yards of structural slab satisfactorily grooved, measured between the faces of barrier, curb, or rail, and between the ends of the slabs, computed to the nearest whole square yard. No deduction will be made for areas left ungrooved near curbs, barriers, rails, joints, drainage structures, or other objects embedded in the slab.								
TOTAL:								818
Added for unanticipated field conditions:								0.0
SAY:								818

Sheet:		
Highway No.:		
Date:		
Company:	AECOM	
	Initials	Date
Prepared By:	MR	5/5/2025
Checked By:	GWR	5/6/2025
Revised By:		
Backchecked By:		

Item:	559.01	Protective Sealing of Structural Concrete on New Bridge, Decks and Bridge Deck Overlays	Unit: SF
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ITEM 559.01 (SF)								
Protective Sealing of Structural Concrete on New Bridge, Decks and Bridge Deck Overlays								
LOCATION	LENGTH (FT)	WIDTH (FT)	AREA					SF
STAGE 1								
BEG SLP. SLAB	16.08	2						32
BEG APR. SLAB	16.08	25						402
BRIDGE	16.25	162.5						2641
END APR. SLAB	16.08	25						402
END SLP. SLAB	16.08	2						32
	LENGTH (FT)	WIDTH (FT)		AREA (SF)	TOTAL AREA (SF)			
EXTRA @ ABUT (LEFT)	1.67	0.75		1.53	3.06			3
STAGE 2								
BEG SLP. SLAB	17.58	2						36
BEG APR. SLAB	17.58	25						440
BRIDGE	15.50	162.5						2519
END APR. SLAB	17.58	25						440
END SLP. SLAB	17.58	2						36
	LENGTH (FT)	WIDTH (FT)		AREA (SF)	TOTAL AREA (SF)			
EXTRA @ ABUT (LEFT)	1.67	0.75		1.53125	3.0625			3
CLOSURE								
BRIDGE	2.25	162.5						366
559-4 METHOD OF MEASUREMENT								
The quantity to be measured for payment will be in the number of square feet of concrete sealed measured to the nearest whole square foot.								
TOTAL:								7352.00
Added for unanticipated field conditions: 0.0								
SAY:								7,352

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	5/16/2025
Checked By:	GWR	5/20/2025
Revised By:		
Backchecked By:		

Unit: SF

ITEM 559.02 (SF)									
Protective Sealing of New Structural Concrete									
LOCATION	LENGTH (FT)	WIDTH (FT)	AREA						SF
1. SINGLE SLOPE BARRIER									
STAGE 1									
FACE 1	164.00	0.83	NA						137
FACE 2	164.00	3.56	NA						584
STAGE 2									
FACE 1	164.00	0.83	NA						137
FACE 2	164.00	3.56	NA						584
559-4 METHOD OF MEASUREMENT									
The quantity to be measured for payment will be in the number of square feet of concrete sealed measured to the nearest whole square foot.									
TOTAL:									1442.00
Added for unanticipated field conditions:									0.0
SAY:									1.442

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	VZ	6/10/2025
Revised By:		
Backchecked By:		

Unit: LS

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	3/31/2025
Checked By:	GWR	4/29/2025
Revised By:		
Backchecked By:		

Item:	564.510001	STRUCTURAL STEEL
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Unit: LB

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	1/10/2024
Checked By:	GWR	1/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	12/30/2024
Checked By:	GWR	1/6/2025
Revised By:		
Backchecked By:		

Item:	568.70	TRANSITION BRIDGE RAILING
-------	--------	---------------------------

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	3/31/2025
Checked By:	GWR	4/30/2025
Revised By:		
Backchecked By:		

Unit: QU

[illegible]

Sheet: _____		
Highway No.: _____		
Date: _____		
Company: _____ AECOM		
	Initials	Date
Prepared By:	MR	1/15/2024
Checked By:	GWR	5/15/2025
Revised By:	_____	_____
Backchecked By:	_____	_____

Unit: LS

[illegible]

Sheet:		
Highway No.:		
Date:		
Company:	AECOM	
	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	GWR	5/5/2025
Revised By:		
Backchecked By:		

Unit: CY

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	5/15/2025
Checked By:	VZ	5/15/2025
Revised By:		
Backchecked By:		

Unit: LF

Added for unanticipated field conditions:	0.0
SAY:	193

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	GWR	3/7/2025
Revised By:		
Backchecked By:		

Item:	606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA
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Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/28/2025
Checked By:	VZ	5/6/2025
Revised By:		
Backchecked By:		

Unit: LF

Added for unanticipated field conditions:	0.0
SAY:	379

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	VZ	5/1/2025
Revised By:		
Backchecked By:		

Unit: EACH

ITEM 606.2201 (EACH)									
ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING BURIED IN BACK SLOPE									
									EA
From MST-01									1.00
606-4.02 Anchorage Units, End Assemblies and Transitions for Guide Railing or Median Barrier. Anchorage units, end assembly units and transitions between various highway guide railing and median barrier systems will be measured by the actual number of units installed in accordance with the plans, standard sheets, manufacturer's drawings, manufacturer's directions and/or as directed by the Engineer.									
TOTAL:									1.00
Added for unanticipated field conditions:									0.0
SAY:									1

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 1/9/2025
Checked By: GWR 3/7/2025
Revised By: _____
Backchecked By: _____

Item: 606.2701 HPBO (MOD.) CORRUGATED BEAM GUIDE RAILING

Unit: LF

ITEM 606.2701 (LF)																																																																									
HPBO (MOD.) CORRUGATED BEAM GUIDE RAILING																																																																									
From GNP-01 (Measured in CAD)									LF																																																																
Along SB Lane									292.00																																																																
<p>606-4.01 Cable, Corrugated Beam or Box Beam Guide Railing and Median Barrier. The quantity to be measured for payment will be in feet to the nearest foot of guide railing or median barrier installed, measured along the axis of the railing and between its pay limits as shown on the plans and/or standard sheets. The quantity to be measured for payment will be in feet to the nearest foot of shop bent or shop mitered guide railing or median barrier installed. If the guide railing does not terminate at an anchorage unit, end assembly, or transition to another type of barrier, but is anchored to a structure, the railing will be measured up to the structure.</p> <p>When installing new or replacement runs containing stretches with or consisting entirely of reduced post spacings, the following payment factors shall be applied to the prices bid per foot for the normally spaced guide rail.</p>																																																																									
<table border="1"><thead><tr><th colspan="8">TABLE 606-2 PAYMENT FACTORS FOR GUIDE RAIL AND MEDIAN BARRIER POST SPACING</th></tr><tr><th>Payment Factors >></th><th>1.0</th><th>1.1</th><th>1.3</th><th>1.4</th><th>1.6</th><th>1.8</th><th>1.9</th></tr><tr><th>Rail Types ↓↓</th><th colspan="7">Post Spacing Center to Center in Feet & Inches</th></tr></thead><tbody><tr><td>3-Cable</td><td>16'</td><td>12'</td><td>--</td><td>8'</td><td>--</td><td>--</td><td>4'</td></tr><tr><td>Mid-Tension Cable</td><td>10'</td><td>--</td><td>--</td><td>5'</td><td>--</td><td>--</td><td>--</td></tr><tr><td>Box Beam</td><td>6'</td><td>--</td><td>3'</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>Weak-Post Corrugated</td><td>12'-6"</td><td>--</td><td>--</td><td>6'-3"</td><td>4'-2"</td><td>--</td><td>3'-1½"</td></tr><tr><td>HPBO</td><td>6'-3"</td><td>--</td><td>--</td><td>--</td><td>--</td><td>3'-1½"</td><td>--</td></tr></tbody></table>										TABLE 606-2 PAYMENT FACTORS FOR GUIDE RAIL AND MEDIAN BARRIER POST SPACING								Payment Factors >>	1.0	1.1	1.3	1.4	1.6	1.8	1.9	Rail Types ↓↓	Post Spacing Center to Center in Feet & Inches							3-Cable	16'	12'	--	8'	--	--	4'	Mid-Tension Cable	10'	--	--	5'	--	--	--	Box Beam	6'	--	3'	--	--	--	--	Weak-Post Corrugated	12'-6"	--	--	6'-3"	4'-2"	--	3'-1½"	HPBO	6'-3"	--	--	--	--	3'-1½"	--
TABLE 606-2 PAYMENT FACTORS FOR GUIDE RAIL AND MEDIAN BARRIER POST SPACING																																																																									
Payment Factors >>	1.0	1.1	1.3	1.4	1.6	1.8	1.9																																																																		
Rail Types ↓↓	Post Spacing Center to Center in Feet & Inches																																																																								
3-Cable	16'	12'	--	8'	--	--	4'																																																																		
Mid-Tension Cable	10'	--	--	5'	--	--	--																																																																		
Box Beam	6'	--	3'	--	--	--	--																																																																		
Weak-Post Corrugated	12'-6"	--	--	6'-3"	4'-2"	--	3'-1½"																																																																		
HPBO	6'-3"	--	--	--	--	3'-1½"	--																																																																		
TOTAL:									292.00																																																																
Added for unanticipated field conditions:									0.0																																																																
SAY:									292																																																																

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	GWR	1/9/2025
Checked By:	VZ	5/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	GWR	1/16/2025
Checked By:	MR	2/25/2025
Revised By:		
Backchecked By:		

Item:	606.5946	RESETTING ANCHORAGE UNITS FOR HEAVY POSTS BLOCKED-OUT (MOD.) CORRUGATED BEAM MEDIAN BARRIER	Unit: EACH
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ITEM 606.5946 (EACH)									
RESETTING ANCHORAGE UNITS FOR HEAVY POSTS BLOCKED-OUT (MOD.) CORRUGATED BEAM MEDIAN BARRIER									
									EA
From GNP-01									1.00
606-4.09 Resetting Anchorage Unit Assemblies and End Assemblies for Guide Railing and Median Barrier This work shall be measured by the number of anchorage units and/or terminals reset in accordance with the requirements of the contract documents.									
TOTAL:									1.00
Added for unanticipated field conditions: 0.0 SAY: 1									

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/28/2025
Checked By:	VZ	5/6/2025
Revised By:		
Backchecked By:		

Unit: LF

ITEM 606.73 (LF)									
REMOVING AND DISPOSING BOX BEAM GUIDE RAILING									
									LF
From GNP-01 (Measured in CAD)									
Along SB Lane									195.00
Along NB Lane									334.00
<p>606-4.07 Removing and Disposing of Guide Railing, Median Barrier and Concrete Barrier. The quantity of guide rail and median barrier measured for payment will be the number of feet of railing and posts removed and disposed of in accordance with the specifications and plans, exclusive of anchorage units and end assembly components that would not be used in the middle of a continuous run. The quantity of concrete barrier measured for payment will be the number of feet removed and disposed of in accordance with the specifications and plans measured along the axis of the barrier between its extreme outer limits and including any backup posts.</p>									
TOTAL:									529.00
Added for unanticipated field conditions:									0.0
SAY:									529

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	GWR	3/7/2025
Revised By:		
Backchecked By:		

Item:	606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAMGUIDE RAILING AND MEDIAN BARRIER	Unit: EACH
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[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	VZ	5/1/2025
Revised By:		
Backchecked By:		

Unit: EACH

ITEM 606.7920 (EACH)									
REMOVING AND DISPOSING BOX BEAM GUIDE RAILING TURNED DOWN TERMINAL									
									EA
From MST-01									1.00
TOTAL:									1.00
Added for unanticipated field conditions:									0.0
SAY:									1

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
Initials Date
Prepared By: MR 12/30/2024
Checked By: GWR 1/6/2025
Revised By: _____
Backchecked By: _____

Item: 607.06110025 PROTECTIVE SCREENING- BRIDGES Unit: LF

ITEM 607.06110025 (LF)									
PROTECTIVE SCREENING- BRIDGES									
LOCATION	LENGTH (FT)			END POSTS					LF
BRIDGE LENGTH	162.00	PER ST-48							324.00
END POST	10			4					40.00
607-4 METHOD OF MEASUREMENT									
607-4.01 General. The quantity to be paid for all fencing exclusive of fence gates and fencing of the types listed in subsequent subsections, will be the number of linear feet of chain-link fencing measured along the top of fencing, center to center of end posts, properly furnished and installed in accordance with the plans, specifications, standard sheets and directions of the Engineer. An allowance of 10 feet will be added for each end post, corner post and pull post installed in accordance with the plans, specifications, standard sheets and directions of the Engineer.									
TOTAL:									364.00

Added for unanticipated field conditions:		0.0
SAY:		364

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Prepared By: MR 2/25/2025
Checked By: GWR 3/7/2025
Revised By: _____
Backchecked By: _____

Item: 607.19 RIGHT-OF WAY FENCING

Unit: LF

ITEM 607.19 (LF)									
RIGHT-OF WAY FENCING									
LOCATION	LENGTH (FT)	END POST	CORNER POST	INTERMEDIATE POST					LF
BEGIN LEFT	43	40	20	0					103.00
BEGIN RIGHT	39	40	20	0					99.00
END LEFT	54	40	20	0					114.00
END RIGHT	68	40	20	0					128.00
607-4.02 Right-of-Way Fencing. Right-of-Way Fencing shall be measured as the number of feet along the top of the fencing from center to center of the end posts, properly furnished and installed in accordance with the plans, specifications, standard sheets and directions of the Engineer. An allowance of 20 feet will be added for each end post, corner post, intermediate post, and approach post installed in accordance with the plans, specifications, standard sheets and directions of the Engineer.									
TOTAL:									444.00

Added for unanticipated field conditions:		0.0
SAY:		444

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/15/2025
Checked By:	GWR	4/29/2025
Revised By:		
Backchecked By:		

Item:	608.020102	ASPHALT SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS,AND VEGETATION CONTROL STRIPS	Unit: TON
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ITEM 608.020102 (TON)								
ASPHALT SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS								
Location	Length (FT)	Width (FT)	Depth (FT)	Volume (CF)	Density (LBS/CF)			TON
VEGETATION CONTROL STRIPS								
Begin Left	27.00	2	0.25	13.500	145			0.98
Begin Right	27.00	2	0.25	13.500	145			0.98
End Left	27.00	2	0.25	13.500	145			0.98
End Right	27.00	2	0.25	13.500	145			0.98
DRIVEWAY								
	AREA (FT ²)	Depth (ft)	Volume (CF)	Density (LBS/CF)				
GRAVEL DRIVEWAY @ 12+45.00	570	0.25	142.50	145				10.33
ASPHALT DRIVEWAY @ 11+40	396	0.25	99.00	145				7.18
ASPHALT DRIVEWAY @ 12+60	1021	0.25	255.25	145				18.51
ASPHALT DRIVEWAY @ STA. 16+75	301	0.25	75.25	145				5.46
<i>Density of Asphalt taken from RDI 14-04, NYSDOT</i>								
608-4.02 Asphalt Sidewalks, Driveways, Bicycle Paths, and Vegetation Control Strips. The quantity to be measured for payment will be in tons to the nearest 0.01 tons of asphalt installed. The asphalt produced for these types of applications is considered certified material in accordance with Materials Procedure (MP) 401. A Quality Adjustment Factor (QAF) of 1.00 will be assigned to Material meeting the specification requirement as certified by the Quality Control Technician (QCT). A QAF of 0.85 will be assigned to material that fails to meet the specification as tested by the Quality Assurance Technician (QAT). Quality Units will be determined when there is a disincentive and will be calculated as per §404-4, Method of Measurement.								
TOTAL:								45.39
Added for unanticipated field conditions:								0.0
SAY:								45.39

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/16/2025
Checked By:	GWR	4/29/2025
Revised By:		
Backchecked By:		

Item:	609.0301	STONE CURB - BRIDGE (TYPE A)
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Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/29/2025
Checked By:	VZ	4/30/2025
Revised By:		
Backchecked By:		

Unit: LF

Added for unanticipated field conditions:	0.0
SAY:	140

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/5/2025
Checked By:	GWR	5/6/2025
Revised By:		
Backchecked By:		

Item:	610.1402	TOPSOIL - ROADSIDE
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Unit: CY

ITEM 610.1402 (CY)								
TOPSOIL - ROADSIDE								
Location	Plan Area (SF)	Slope Correction Factor	Area (SF)	Depth (FT)				CY
Begin Left	1539.00	1.12	1723.68	0.33				21.3
Begin Right	2907.00	1.12	3255.84	0.33				40.2
End Left	1175.00	1.12	1316.00	0.33				16.2
End Right	2458.00	1.12	2752.96	0.33				34.0
TOTAL:								111.71

610-4.01 Topsoil. The quantity to be measured for payment will be in cubic yards of each type of topsoil measured to the nearest whole cubic yard of topsoil placed, from payment lines shown in the contract documents.

Cross sectioning, for the purpose of determining quantities for payment, will be employed only where payment lines are not shown on the Plans and cannot be reasonably established by the Engineer.

Added for unanticipated field conditions:	0.0
SAY:	112

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87 Village of Woodbury, Orange County, NY AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/5/2025
Checked By:	GWR	5/6/2025
Revised By:		
Backchecked By:		

Item:	610.1601	TURF ESTABLISHMENT - ROADSIDE
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Unit: SY

ITEM 610.1601 (SY)							
TURF ESTABLISHMENT - ROADSIDE							
Location (From ESC-01 & 02)	Area (SF)	Slope Correction Factor	Area (SF)				SY
Begin Left	1539.00	1.12	1723.68				191.5
Begin Right	2907.00	1.12	3255.84				361.8
End Left	1175.00	1.12	1316.00				146.2
End Right	2458.00	1.12	2752.96				305.9
CONCURRENCE							
<p>610.4.03 Turf Establishment. The work will be measured as the number of square yards on slope to the nearest whole square yard on slope of turf established.</p>							
82							
Section 600	NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (USC) May 1, 2025			VOLUME 3			
<hr/>							
4.04							
<p>For Turf Establishment – Nurse Crops, the work will be measured as the number of square yards on slope to the nearest whole square yard on slope of nurse crop sown.</p>							
TOTAL:							1005.39
Added for unanticipated field conditions:							0.0
SAY:							1.006

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	5/7/2025
Checked By:	GWR	5/8/2025
Revised By:		
Backchecked By:		

Item:	619.0803	COVER EXISTING PAVEMENT MARKING STRIPES (REMOVABLE TAPE)
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Unit: LF

ITEM 619.0803 (LF)								
COVER EXISTING PAVEMENT MARKING STRIPES (REMOVABLE TAPE)								
From TC 03, 04 & 06 (Measured in CAD):								LF
Stage 1								374.00
								247.00
								253.00
Stage 2								87.00

619-4.05 Covering or Removal of Pavement Markings. The quantity to be measured for payment will be in feet to the nearest whole foot along the centerline of the pavement stripes covered or removed. No measurement will be made for the gaps between broken and dotted line segments. If preformed tape is used to cover an existing line, payment will be based on the width of the line covered. Measurement for covering or removal of striping with a width greater than 4 inches will be made by the following method:

Width of Striping (in) x Number of Feet
4 (in)

Letters and symbols will be measured by each unit covered or removed. A unit will consist of one letter or one symbol except that a double-headed arrow will be measured as two units and triple headed arrow will be measured as three units. Example: "SCHOOL" would be measured as six units. Each R in a railroad crossing marking will be measured as a single unit, but the "X" will be measured by the number of feet of 4 inch stripe.

TOTAL:	961.00
Added for unanticipated field conditions:	0.0
SAY:	961

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 5/16/2025
Checked By: VZ 5/16/2025
Revised By: _____
Backchecked By: _____

Item: 619.100103 INTERIM PAVEMENT MARKINGS, STRIPES (REMOVABLE TAPE)

Unit: LF

ITEM 619.100103 (LF) INTERIM PAVEMENT MARKINGS, STRIPES (REMOVABLE TAPE)									
									LF
Stage 1									1069.00
Stop Bar @ Begin									55.00
Stop Bar @ End									51.00
Stage 2									1474.00
From TC-03 to TC-06									
<p> 619-4.07 Interim Pavement Markings. The quantity to be measured for payment will be in feet to the nearest whole foot along the centerline of the pavement stripes installed, and will be based on a 4 inch wide stripe. No measurement will be made for the length of skips in the dashed line. Measurement for installation of striping with a width greater than 4 inches will be made by the following method: <u>Width of Striping (in) x Number of Feet</u> 4 (in) Letters and symbols will be measured by each unit installed. A unit will consist of one letter or one symbol except that a double-headed arrow will be measured as two units and triple headed arrow will be measured as three units. Example: "SCHOOL" would be measured as six units. Each R in a railroad crossing marking will be measured as a single unit, but the "X" will be measured by the number of feet of 4 inch stripe. </p>									
TOTAL:									2649.00
Added for unanticipated field conditions:									0.0
SAY:									2,649

Sheet:		
Highway No.:		
Date:		
Company:	AECOM	
	Initials	Date
Prepared By:	MR	1/16/2025
Checked By:	GWR	3/7/2025
Revised By:		
Backchecked By:		

EA

ITEM 619.130201 (EA)							
Temporary Traffic Signals- Portable Traffic Signal System							
							ELOC
							1.0
<p>619-4.18 Temporary Traffic Signals. <u>The work under temporary traffic signals will be measured for payment on an each location basis. A location shall be defined as a work zone site that can operate from one traffic signal controller, whether it be an intersection or in lieu of work zone flagging. If PTSs are moved and operated at the same location on the same day, no additional payment will be made.</u> The work under temporary traffic signals will be measured for payment on an each location basis.</p>							
TOTAL:							1.00
Added for unanticipated field conditions:							0.0
SAY:							1

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	5/7/2025
Checked By:	VZ	5/13/2025
Revised By:		
Backchecked By:		

Unit: LF

ITEM 619.17060025 (LF)								
LINEAR DELINEATION SYSTEM (L.D.S.)								
Measured from Tc-01 and TC-02								
SB Lane								LF 321.00
SB Lane								340.00
NB Lane								281.00
NB Lane								223.00
METHOD OF MEASUREMENT								
Page 1 of 2 07/05/22								
ITEM 619.17060005 - LINEAR DELINEATION SYSTEM								
This work will be measured as the number of feet of Linear Delineation System installed on temporary concrete barrier.								
TOTAL:								1165.00
Added for unanticipated field conditions:								0.0
SAY:								1,165

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

Initials Date
Prepared By: MR 6/25/2025
Checked By: GWR 8/11/2025
Revised By: _____
Backchecked By: _____

Item: 619.1716 Temporary Positive Barrier - Category 6 (Pinning Required)

Unit: LF

ITEM 619.1716 (LF)									
Temporary Positive Barrier - Category 6 (Pinning Required)									
Thruway									LF
SB Lane									160
SB Lane									160
NB Lane									160
NB Lane									184
619-4.12 Temporary Positive Barrier. . The quantity to be measured for payment of temporary positive barrier will be in feet to the nearest foot along the centerline of temporary positive barrier installed.									
The quantity to be measured for payment of Box Beam to Flared Temporary Concrete Barrier Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Box Beam to Unflared Temporary Concrete Barrier Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Temporary Concrete Barrier Face to Box Beam Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Temporary Concrete Barrier Back to Box Beam Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Corrugated Beam to Flared Temporary Concrete Barrier Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Temporary Concrete Barrier Face to Corrugated Beam Transition will be the number of such transitions installed.									
The quantity to be measured for payment of Temporary Concrete Barrier Back to Corrugated Beam Transition will be the number of such transitions installed.									
TOTAL:									664.00

Added for unanticipated field conditions:		0.0
SAY:		664

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	4/28/2025
Checked By:	GWR	5/13/2025
Revised By:		
Backchecked By:		

Item: 619.1803 TEMPORARY IMPACT ATTENUATOR - REDIRECTIVE (TEST LEVEL 3) Unit: EACH

ITEM 619.1803 (EACH)									
TEMPORARY IMPACT ATTENUATOR - REDIRECTIVE (TEST LEVEL 3)									
									EA
From TC-02									1.00
619-4.14 Temporary Impact Attenuator. The quantity to be measured for payment will be the number of temporary impact attenuators installed.									
TOTAL:									1.00

Added for unanticipated field conditions:	0.0
SAY:	1

PIN:	TANY 26-17B
BIN:	5514280
Project:	Pine Hill Road over I-87
	Village of Woodbury, Orange County, NY
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	3/31/2025
Checked By:	GWR	4/28/2025
Revised By:		
Backchecked By:		

Item:	620.0802	BEDDING MATERIAL, TYPE 2
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Unit: CY

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	12/31/2024
Checked By:	GWR	1/3/2025
Revised By:		
Backchecked By:		

Item:	625.01	SURVEY OPERATIONS
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Unit: LS

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/28/2025
Checked By:	GWR	4/28/2025
Revised By:		
Backchecked By:		

Unit: MNTH

ITEM 637.12000025 (MNTH)									
ENGINEERS FIELD OFFICE -TYPE 2									
									MNTH
									20.00
637-4.01 Engineer's Field Office. The Engineer's Field Office will be measured for payment as the number of months satisfactorily provided, measured to the nearest 0.25 months.									
								TOTAL:	20.00
									Added for unanticipated field conditions:
									0.0
									SAY:
									20

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	5/29/2025
Checked By:	VZ	5/29/2025
Revised By:		
Backchecked By:		

Unit: SF

ITEM 645.51000125 (SF)								
INSTALL GROUND-MOUNTED SIGN PANELS (AUTHORITY SUPPLIED)								
								SF
								12.00
645-4.02 Sign Panels. The work will be measured as the number of square feet measured to the nearest 0.1 square feet of sign panel satisfactorily installed.								
The area of each panel will be measured as the area shown on the standard sheets. For sign panels not shown on the standard sheets, the area will be measured as the product of length and width, with no reduction for rounded corners. When sign panels are mounted back-to-back, each panel face will be measured separately.								
A. Panels with Multiple Sheeting types. Panels with multiple types of sheeting will be measured as the number of square feet measured to the nearest 0.1 square feet for each of the types of sheeting applied to the sign panel. The sum of all the areas of the sheeting types measured shall equal the total area of the sign panel measured as the product of length and width.								
TOTAL:								12.00
Added for unanticipated field conditions:								0.0
SAY:								12

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/1/2025
Checked By:	GWR	4/28/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	GWR	1/20/2025
Revised By:		
Backchecked By:		

Item: 646.08010025 INSTALL SNOWPLOW MARKER, SINGLE UNIT

Unit: EACH

ITEM 646.08010025 (EACH) INSTALL SNOWPLOW MARKER, SINGLE UNIT									
									EA
From PMP-01									1.00
646-4 METHOD OF MEASUREMENT. Delineators, reference markers, snowplowing markers, supplementary snowplowing markers, flexible delineator posts, posts and brackets will be measured as the number of complete panels, brackets and posts installed. In the event a section of highway is under construction by others and reference markers cannot be installed, they will be measured as the number of marker panels and posts furnished only. Relocated panels will be measured as the number of panels relocated.									
TOTAL:									1.00
<div style="display: flex; justify-content: space-between;"> Added for unanticipated field conditions: 0.0 </div> <div style="display: flex; justify-content: space-between;"> SAY: 1 </div>									

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	GWR	1/20/2025
Revised By:		
Backchecked By:		

Item:	646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	Unit: EACH
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ITEM 646.22 (EACH)								
DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS								
								EA
From PMP-01 & PMP-02								7.00
646-4 METHOD OF MEASUREMENT. Delineators, reference markers, snowplowing markers, supplementary snowplowing markers, flexible delineator posts, posts and brackets will be measured as the number of complete panels, brackets and posts installed. In the event a section of highway is under construction by others and reference markers cannot be installed, they will be measured as the number of marker panels and posts furnished only. Relocated panels will be measured as the number of panels relocated.								
								TOTAL:
								7.00
Added for unanticipated field conditions:								0.0
SAY:								7

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	1/9/2025
Checked By:	GWR	1/21/2025
Revised By:		
Backchecked By:		

Item:	646.32	STEEL POST, 2.0 LB/FT
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Unit: EACH

ITEM 646.32 (EACH)								
STEEL POST, 2.0 LB/FT								
								EA
From PMP-01 and PMP-02								5.00
646-4 METHOD OF MEASUREMENT. Delineators, reference markers, snowplowing markers, supplementary snowplowing markers, flexible delineator posts, posts and brackets will be measured as the number of complete panels, brackets and posts installed. In the event a section of highway is under construction by others and reference markers cannot be installed, they will be measured as the number of marker panels and posts furnished only. Relocated panels will be measured as the number of panels relocated.								
								TOTAL:
								5.00
Added for unanticipated field conditions:								0.0
SAY:								5

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	10/9/2025
Checked By:	AJCE	6/16/2025
Revised By:		
Backchecked By:		

Item:	664.01060004	DUCTILE IRON SEWER PIPE & FITTINGS, 6"
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Unit: LF

ITEM 664.01060004 (LF)									
DUCTILE IRON SEWER PIPE & FITTINGS, 6"									
Location									LF
Measured From GNP-01 and GNP-02									258.00
<p>METHOD OF MEASUREMENT: The quantity will be measured as the number of feet of new sewer pipe (including all necessary connections, hangers and fittings) furnished and installed in accordance with the plans, specifications and as directed by the Engineer.</p> <p>BASIS OF PAYMENT: The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to complete the work including, but not limited to fittings, plugs, connections, and leakage tests. For portions mounted to a bridge, this also includes expansion devices, rollers, chairs, connectors, insulation, insulation covering and sleeves, except that structural utility support members will be paid for separately.</p> <p>Excavation, backfill, sheeting and specials will be paid for under their respective items.</p> <p>Progress payments will be made at the unit price bid for 80 percent of the quantity of pipe installed. The remaining 20 percent will be paid for when the testing of the system has been completed.</p>									
TOTAL:									258.00
Added for unanticipated field conditions:									0.0
SAY:									258

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	VZ	4/29/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	3/28/2025
Checked By:	VZ	5/13/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

	Initials	Date
Prepared By:	MR	4/16/2025
Checked By:	VZ	5/6/2025
Revised By:		
Backchecked By:		

Item: 685.1102 White Epoxy Reflectorized Pavement Stripes - 20 mil

Unit: LF

ITEM 685.1102 (LF) White Epoxy Reflectorized Pavement Stripes - 20 mil									
Location	LF	LF	LF	LF	LF	LF	LF	LF	LF
Left									645.00
Right									663.00
<p>685-4 METHOD OF MEASUREMENT. Pavement striping will be measured in linear feet along the centerline of the pavement stripe and will be based on a 4-inch-wide stripe. Measurement for striping with a plan width greater or less than the basic 4 inch as shown on the plans or directed by the Engineer, will be made by the following method:</p> $\frac{\text{Plan Width of Striping (inches)} \times \text{Linear Feet}}{4 \text{ inches}}$ <p>This includes stripes 6 inches and wider, such as hatch lines, crosswalk bars and stop bars.</p> <p>Letters and symbols will be measured by each unit applied. A unit will consist of one letter or one symbol. Example: "SCHOOL" would be paid as six units. Double and triple headed arrows will be measured as a single unit, but the "X" in railroad grade crossing markings (M.U.T.C.D. figure 8B-7) will be measured by linear feet of 4-inch stripe.</p>									
TOTAL:									1308.00
Added for unanticipated field conditions:									0.0
SAY:									1,308

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
 Village of Woodbury, Orange County, NY
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM

 Initials Date
Prepared By: MR 3/4/2025
Checked By: VZ 5/6/2025
Revised By: _____
Backchecked By: _____

Item: 685.1202 Yellow Epoxy Reflectorized Pavement Stripes - 20 mil

Unit: LF

ITEM 685.1202 (LF) Yellow Epoxy Reflectorized Pavement Stripes - 20 mil													
Location									LF				
Left									654.00				
Right									655.00				
<p>685-4 METHOD OF MEASUREMENT. Pavement striping will be measured in linear feet along the centerline of the pavement stripe and will be based on a 4-inch-wide stripe. Measurement for striping with a plan width greater or less than the basic 4 inch as shown on the plans or directed by the Engineer, will be made by the following method:</p> <p style="text-align: center;"><i>Plan Width of Striping (inches) x Linear Feet</i> 4 inches</p> <p>This includes stripes 6 inches and wider, such as hatch lines, crosswalk bars and stop bars.</p> <p>Letters and symbols will be measured by each unit applied. A unit will consist of one letter or one symbol. Example: "SCHOOL" would be paid as six units. Double and triple headed arrows will be measured as a single unit, but the "X" in railroad grade crossing markings (M.U.T.C.D. figure 8B-7) will be measured by linear feet of 4-inch stripe.</p>													
									TOTAL:				
									1309.00				
<table style="width: 100%; border: none;"> <tr> <td style="width: 80%; border: none;">Added for unanticipated field conditions:</td> <td style="width: 20%; border: none; text-align: right;">0.0</td> </tr> <tr> <td style="border: none;">SAY:</td> <td style="border: none; text-align: right;">1,309</td> </tr> </table>										Added for unanticipated field conditions:	0.0	SAY:	1,309
Added for unanticipated field conditions:	0.0												
SAY:	1,309												

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	6/25/2025
Checked By:	GWR	8/11/2025
Revised By:	MR	1/15/2026
Backchecked By:	AJCE	1/20/2026

Unit: DC

ITEM 698.04 (DC)									
ASPHALT PRICE ADJUSTMENT									
FROM ITEM	UNIT	CONVERT FACTOR (TON PGB/UNIT)	TON PGB	ASPHALT PRICE (Aug 25)	ASSUMED ESCAL TN	MONTHLY AVERAGE PRICE	PRICE ADJUST		DC
404.09720025	4.35	0.062	0.27	643	100	743	22.95		22.95
404.12730025	208.38	0.055	11.46	643	100	743	974.10		974.10
404.19790025	174.05	0.049	8.53	643	100	743	725.05		725.05
404.25790025	190.77	0.045	8.58	643	100	743	729.30		729.30
404.37790025	13.05	0.04	0.52	643	100	743	44.20		44.20
404.4289	5.50	0.055	0.3	643	100	743	25.50		25.50
404.4489	1.47	0.045	0.07	643	100	743	5.95		5.95
407.0103	141	0.0016	0.23	643	100	743	19.55		19.55
608.020102	45.39	0.062	2.81	643	100	743	238.85		238.85
Asphalt price adjustments taken from, https://www.dot.ny.gov/main/business-center/contractors/construction-division/fuel-asphalt-steel-price-adjustments									
*608.020102 the max. conversion factor is taken for estimating									
<p>698-3.01 Asphalt Price Adjustment. The asphalt price adjustment will be based solely on the price changes for asphalt as determined by the formulas below. No adjustment will be made if the monthly average posted price is within \$15.00 of the asphalt index price. No consideration will be given to the situation where an individual supplier's price exceeds the monthly average posted price.</p> <p>A. Prices. The asphalt index price and the monthly average posted price are defined as follows:</p> <p>1. Asphalt Index Price. The asphalt index price is a price per ton of Performance Graded Binder (PGB) used solely as a basis from which to compute asphalt price adjustments. The asphalt index price for original contract bid price items and additional work at the original contract bid price will be the monthly average posted price for the month of the bid letting. The asphalt index price for additional work at agreed price will be the monthly average posted price for the month the agreed price was submitted to the Engineer.</p> <p>2. Monthly Average Posted Price. The average terminal price for unmodified PG 64S-22 binder, without anti-stripping agent, determined by the Department, based on prices of approved primary sources of PGB.</p> <p>B. Quantity. The quantity of asphalt in tons considered for adjustment will be determined by multiplying the quantity of eligible work completed by the conversion factors listed in the Special Note entitled <i>Asphalt Price Adjustment</i>.</p> <p>C. Adjustment. Asphalt price adjustment will be based on the following formulas:</p> <p>1. When price increases: Price Adjustment = (Quantity of Asphalt) x (Monthly Average Posted Price - PGB Index Price - \$15.00)</p> <p>2. When price decreases: Price Adjustment = (Quantity of Asphalt) x (Monthly Average Posted Price - PGB Index Price + \$15.00)</p>									
TOTAL:									2785.45
Added for unanticipated field conditions:									0.0
SAY:									2.786

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	GWR	8/11/2025
Revised By:	MR	1/15/2026
Backchecked By:	AJCE	1/20/2026

Item:	698.05	FUEL PRICE ADJUSTMENT
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Unit: DC

ITEM 698.05 (DC)									
FUEL PRICE ADJUSTMENT									
ITEM	UNIT	CONVERT FACTOR (GAL/UNIT)	GAL	FUEL PRICE (Aug 25)	ASSUMED ESCAL'TN	MONTHLY AVERAGE PRICE	PRICE ADJUST		DC
203.02	864.00	0.35	302.4	1.98	1	2.98	272.16		272.16
203.03	1599.00	0.1	159.9	1.98	1	2.98	143.91		143.91
203.07	44.00	0.1	4.4	1.98	1	2.98	3.96		3.96
203.08010017	61.00	0.45	27.45	1.98	1	2.98	24.71		24.71
203.21	621.00	0.45	279.45	1.98	1	2.98	251.51		251.51
203.25	70.00	0.45	31.5	1.98	1	2.98	28.35		28.35
204.01	25.00	1	25	1.98	1	2.98	22.50		22.50
206.01	2043.00	0.5	1021.5	1.98	1	2.98	919.35		919.35
206.0201	114.00	0.5	57	1.98	1	2.98	51.30		51.30
304.12	585.00	1	585	1.98	1	2.98	526.50		526.50
404.09720025	4.35	2.5	10.88	1.98	1	2.98	9.79		9.79
404.12730025	208.38	2.5	520.95	1.98	1	2.98	468.86		468.86
404.19790025	174.05	2.5	435.13	1.98	1	2.98	391.62		391.62
404.25790025	190.77	2.5	476.93	1.98	1	2.98	429.24		429.24
404.37790025	13.05	2.5	32.63	1.98	1	2.98	29.37		29.37
404.4289	5.50	2.5	13.75	1.98	1	2.98	12.38		12.38
404.4489	1.47	2.5	3.68	1.98	1	2.98	3.31		3.31
490.30	324.00	0.1	32.4	1.98	1	2.98	29.16		29.16
554.3001	537.00	0.45	241.65	1.98	1	2.98	217.49		217.49
555.0011	275.10	1	275.1	1.98	1	2.98	247.59		247.59
555.0021	334.90	1	334.9	1.98	1	2.98	301.41		301.41
555.0022	94.60	1	94.6	1.98	1	2.98	85.14		85.14
557.1013	231.80	0.33	76.49	1.98	1	2.98	68.84		68.84
557.1113	669.00	0.25	167.25	1.98	1	2.98	150.53		150.53
569.04	328.00	0.17	55.76	1.98	1	2.98	50.18		50.18
608.020102	45.39	2.5	113.48	1.98	1	2.98	102.13		102.13
610.1402	112.00	0.45	50.4	1.98	1	2.98	45.36		45.36
610.1601	1006.00	0.05	50.3	1.98	1	2.98	45.27		45.27
620.03	26.00	0.1	2.6	1.98	1	2.98	2.34		2.34
Fuel price adjustments taken from, https://www.dot.ny.gov/main/business-center/contractors/construction-division/fuel-asphalt-steel-price-adjustments									
<p>698-3.02 Fuel Price Adjustment. The fuel price adjustment will be based solely on the price changes for fuel as determined by the formulas below. No adjustment will be made if the monthly average posted price is within \$0.10 per gallon of the fuel index price. No consideration will be given to the situation where an individual supplier's price exceeds the monthly average posted price,</p> <p>A. Prices. The fuel index price and the monthly average posted price are defined as follows:</p> <p>1. Fuel Index Price. A price per gallon of fuel used solely as a basis from which to compute fuel price adjustments. The fuel index price for original contract bid price items and additional work at the original contract bid price will be the monthly average posted price for the month of the bid letting. The fuel index price for additional work at agreed price will be the monthly average posted price for the month the agreed price was submitted to the Engineer.</p> <p>2. Monthly Average Posted Price. An average refinery or terminal price based on prices for ultra low sulfur diesel (ULSD) and gasoline.</p> <p>B. Quantity. The quantity of fuel in gallons considered for adjustment will be determined by multiplying the quantity of eligible work completed by the fuel usage factor listed in the Special Note entitled <i>Fuel Price Adjustment</i>.</p> <p>C. Adjustment. Fuel price adjustment will be based on the following formulas:</p> <p>1. When price increases: Price Adjustment = (Quantity of Fuel) x (Monthly Average Posted Price - Fuel Index Price - \$0.10)</p> <p>2. When price decreases: Price Adjustment = (Quantity of Fuel) x (Monthly Average Posted Price - Fuel Index Price + \$0.10)</p>									
TOTAL:									4934.26

PIN: TANY 26-17B
BIN: 5514280
Project: Pine Hill Road over I-87
Village of Woodbury, Orange County, NY
AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet:
Highway No.:
Date:
Company: AECOM

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	GWR	8/11/2025
Revised By:	MR	1/15/2026
Backchecked By:	AJCE	1/20/2026

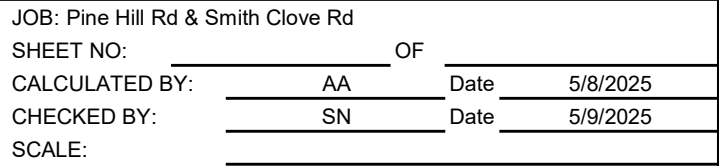
Item:	698.05	FUEL PRICE ADJUSTMENT	Unit: DC
		Added for unanticipated field conditions:	0.0
		SAY:	4,935

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	MR	4/17/2025
Checked By:	GWR	5/14/2025
Revised By:		
Backchecked By:		

Unit: DC

[illegible]

[illegible]

Item: 203.02

UNCLASSIFIED EXCAVATION AND DISPOSAL

CY

Description							Quantity			
Location	STA	STA	LENGTH	WIDTH	DEPTH		QTY			
NORTH SIDE	944+17	973+78	2961.00	15.000	1.625		2673.13			CY
L.S	976+29	988+70	1241.00	15.000	1.625		1120.35			CY
	961+42	973+78	1236.00	10.000	1.625	AVG	743.89			CY
R.S	976+29	988+35	1206.00	10.000	1.625	AVG	725.83			CY
SOUTH SIDE	961+37	973+78	1241.00	15.000	1.625		1120.35			CY
LS	976+29	1005+90	2961.00	15.000	1.625		2673.13			CY
	961+72	973+78	1206.00	10.000	1.625	AVG	725.83			CY
RS	976+29	988+65	1236.00	10.000	1.625	AVG	743.89			CY
Location (Shoulder Restoration)										
NORTH SIDE	944+17	973+78	2961.00	11.000	1.625		1960.29			CY
L.S Restoration	976+29	988+70	1241.00	11.000	1.625		821.59			CY
SOUTH SIDE	961+37	973+78	1241.00	11.000	1.625		821.59			CY
LS Restoration	976+29	1005+90	2961.00	11.000	1.625		1960.29			CY

Area Disturbed =	174900	SF
4.0152	Acres	
Say =	4.1	Acres

ATSTONE GUTTER 4 SIDES OF BRIDGE

Avg length = 30 ft 30 ft
Width = 10.25 ft 10.25 ft Vol = 19.93
Depth = 1.75 ft 1.75 ft

20.00

Calculated Value:	16110.15
Percentage Increases:	0 0
Estimated Value:	16111.00 CY

FoitAlbert
ASSOCIATES

Architecture.
Engineering.
Surveying.

JOB: Pine Hill Rd & Smith C Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: MPS Date 8/5/2025

CHECKED BY: MHC Date 8/5/2025

SCALE: _____

Item: 203.24000025

SHOULDER BACKUP MATERIAL

TON

Description										Quantity		
		LENGTH (FT)	WIDTH (FT)				Depth (ft)					
1		100	4				avg	4 in			6.7	TON
2		100	4				avg	4 in			6.7	TON
3		100	4				avg	4 in			6.7	TON
4		100	4				avg	4 in			6.7	TON

NB LT Shoulder Restoration

5 4202 4 avg 4 in 280.1 TON

SB LT Shoulder Restoration

6 4202 4 avg 4 in 280.1 TON

Sub Total	586.93	TON
Add	0.00%	
TOTAL=	587	TON

Item: 209.13 SILT FENCE LF

Note: Reference Sheet No.: Assume 100' each quadrant

Description															Quantity		
Length																	
400.00															400.00		LF

Calculated Value:	400.00	LF
Percentage Increases:	0.00%	
Estimated Value:	400	LF



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ AA _____ Date 5/8/2025
CHECKED BY: _____ SN _____ Date 5/9/2025
SCALE: _____

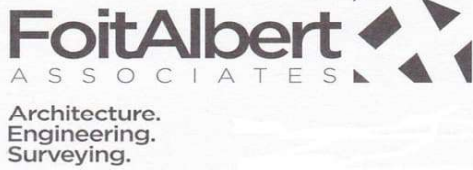
Item: 209.2301 Sediment Filter-log 12" LF

Note: Reference Sheet No.:

Description																Quantity	
																0.00	LF

SILT FENCE																	
LOCATION	Length																
Stage 1	8949.12															8949.12	LF
Stage 2	2869.87															2869.87	LF
Stage 3	596.09															596.09	LF

Calculated Value:	12,415.08	LF
Percentage Increases:	0.00%	
Estimated Value:	12,416	LF



JOB: Pine Hill Rd & Smith Clove Rd		
SHEET NO:	_____	OF _____
CALCULATED BY:	AA	Date 5/8/2025
CHECKED BY:	SN	Date 5/9/2025
SCALE:	_____	

Item: 210.480301 REMOVAL AND DISPOSAL OF MISCELLANEOUS ACM LS

Note: Reference Sheet No.:

Description															Quantity		
Quantity																	
1.00															1.00		LS
One for Phase-1 (NB)																	
One for Phase-2 (SB)																	



Calculated Value:	1.00	LS
Percentage Increases:	0.00%	
Estimated Value:	1	LS

Item: 304.12 SUBBASE COURSE, TYPE 2

CY

Note: Reference Sheet No.:

Description

Quantity

Roadway	Location	STA	STA	LENGTH	WIDTH	DEPTH					QTY(CY)	
NORTH SIDE		944+17	973+78	2961.00	15.000	0.750					1233.75	CY
L.S		976+29	988+70	1241.00	15.000	0.750					517.08	CY
		961+42	973+78	1236.00	10.000	0.750	AVG				343.33	CY
R.S		976+29	988+35	1206.00	10.000	0.750	AVG				335.00	CY
SOUTH SIDE		961+37	973+78	1241.00	15.000	0.750					517.08	CY
LS		976+29	1005+90	2961.00	15.000	0.750					1233.75	CY
		961+72	973+78	1206.00	10.000	0.750	AVG				335.00	CY
RS		976+29	988+65	1236.00	10.000	0.750	AVG				343.33	CY

ted Value:	4,858.33	CY
ntage Incre	0.00%	
ed Value:	4,859	CY

JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____

MPS

Date

8/6/2025

CHECKED BY: _____

MHC

Date

8/6/2025

SCALE: _____

Item: 404.09720025 9.5 F2 Top Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring

TON

Note: Reference Sheet No.: Area is from CAD model

Description

Quantity

Start Station	End Station	Width	Area	Depth	Density	Quantity	Unit
973+78.00	976+29.00	110.00	27610.00	0.125	145	250.22	TON

Location	STA	STA	LENGTH	WIDTH	DEPTH	VOL (CF)	Density	Quantity	Unit
NORTH SIDE	944+17	973+78	2961.00	15.000	0.125	5551.88	145	402.52	TON
L.S	976+29	988+70	1241.00	15.000	0.125	2326.88	145	168.7	TON
	961+42	973+78	1236.00	10.000	0.125	AVG 1545.00	145	112.02	TON
R.S	976+29	988+35	1206.00	10.000	0.125	AVG 1507.50	145	109.3	TON
SOUTH SIDE	961+37	973+78	1241.00	15.000	0.125	2326.88	145	168.7	TON
LS	976+29	1005+90	2961.00	15.000	0.125	5551.88	145	402.52	TON
	961+72	973+78	1206.00	10.000	0.125	AVG 1507.50	145	109.3	TON
RS	976+29	988+65	1236.00	10.000	0.125	AVG 1545.00	145	112.02	TON

Calculated Value:

1,835.30

TON

Percentage Increases:

0.00%

Estimated Value:

1,836

TON

Item: 404.19790025 19 F9 Binder Course Asphalt, 70 Series with Nuclear Gauge Density Monitoring

TON

Note: Reference Sheet No.: Area is from CAD model

Description

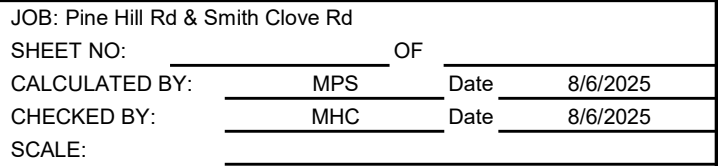
Quantity

Start Station	End Station	Width	Area	Depth	Density		
973+78.00	976+29.00	115.00	28865.00	0.250	145	523.18	TON

Location	STA	STA	LENGTH	WIDTH	DEPTH	VOL (CF)				
NORTH SIDE	944+17	973+78	2961.00	15.333	0.250	11350.50		145	822.92	TON
L.S	976+29	988+70	1241.00	15.333	0.250	4757.17		145	344.9	TON
	961+42	973+78	1236.00	10.333	0.250	AVG 3193.00		145	231.5	TON
R.S	976+29	988+35	1206.00	10.333	0.250	AVG 3115.50		145	225.88	TON
SOUTH SIDE	961+37	973+78	1241.00	15.333	0.250	4757.17		145	344.9	TON
LS	976+29	1005+90	2961.00	15.333	0.250	11350.50		145	822.92	TON
	961+72	973+78	1206.00	10.333	0.250	AVG 3115.50		145	225.88	TON
RS	976+29	988+65	1236.00	10.333	0.250	AVG 3193.00		145	231.5	TON

Calculated Value:	3,773.58	TON
Percentage Increases:	0.00%	
Estimated Value:	3,774	TON

[illegible]

**GAL**

Quantity

Calculated Value:	2,399.13	GAL
Percentage Increases:	0.00%	
Estimated Value:	2,400	GAL

Item: 418.7603 ASPHALT PAVEMENT JOINT ADHESIVE

LF

Note: Reference Sheet No.: GNP

Description

Quantity

Description	station	to	station	LENGTH	Multiplier															
Lt Shoulder	944+17		988+70	4453	2															
Rt Shoulder	961+42		985+00	2358	2															
cross length				56.5	4															
Long. Jts Mill	973+78		976+29	251	2															

Calculated Value:	14,350.00	LF
Percentage Increases:	0.00%	
Estimated Value:	14,350	LF

Item: **490.30 MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE SY**

Note: Reference Sheet No.: GNP

Description

Quantity

Start Station	End Station	Width	Area
973+78.00	976+29.00	110.00	27610.00

SY	
3067.78	SY

Calculated Value:	3,067.78	SY
Percentage Increases:	0.00%	
Estimated Value:	3,068	SY



JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____ MPS Date 8/7/2025

CHECKED BY: _____ MHC Date 8/7/2025

SCALE: _____

Item: 556.0202

EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES

LB

Description

Quantity

Quantities

TOTAL STEEL REPAIR QUANTITY , SEE ON THE RIGHT

At pedestal repair areas

Description

Quantity

				area	No	unit	unit weight											
1	(18"+4"+14")	36.00	X	0.00213	72		490									225.44		LB
2	(18+4+16)	38.00	X	0.00213	48		490									158.64		LB
3	(20+4+24+4+20)	72.00	X	0.00213	24		490									150.29		LB
4																		

Calculated Value:	534.37	LB
Percentage Increases:	20.00%	
Estimated Value:	642	LB
Say	642	LB

Item: 556.03 STUD SHEAR CONNECTORS FOR BRIDGES EACH

Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description															Quantity			
	No.		NO/row			Girders												
	52.00		3			6.00										936.00		EACH

Calculated Value:	936.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	936	EACH



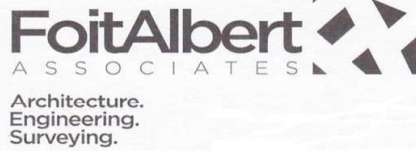
JOB: Pine Hill Rd & Smith Clove Rd
 SHEET NO: _____ OF _____
 CALCULATED BY: _____ MPS Date 8/7/2025
 CHECKED BY: _____ MHC Date 8/7/2025
 SCALE: _____

Item: 557.2119 Superstructure Slab with Separate Wearing Surface Bottom Formwork Required SY

Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description												Quantity	
	Length	width					sides						
	50.75	19					2					214.28	SY
	2.83	113.5					2					71.46	SY

Calculated Value:	285.74	SY
Percentage Increases:	0.00%	
Estimated Value:	286	SY



JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____ MPS Date 8/7/2025

CHECKED BY: _____ MHC Date 8/7/2025

SCALE: _____

Item: 559.02 PROTECTIVE SEALING OF STRUCTURAL CONCRETE SF

Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description										Quantity			
	surface length			Sides		Length							
	(2.5+1.083+3.5+1+3.5)=			11.58	ft	102.00 ft						1181.47	SF

Total Area from BA-1
371.1 SF

371.10 SF

Total Area from BA-2
169.8 SF

169.80 SF

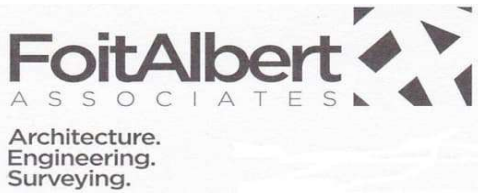
Total Area from BA-3
326.25 SF

326.25 SF

Total Area from BA-4
198.35 SF

198.35 SF

Calculated Value:	2,246.97	SF
Percentage Increases:	5.00%	
Estimated Value:	2,360	SF



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ MHC Date 8/8/2025
SCALE: _____

Item: 564.100001 STRUCTURAL STEEL REPLACEMENT LB

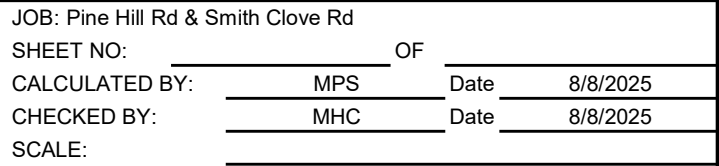
Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description														Quantity		
Quantities																
TOTAL STEEL REPAIR QUANTITY , SEE ON THE RIGHT														3052.00	LB	

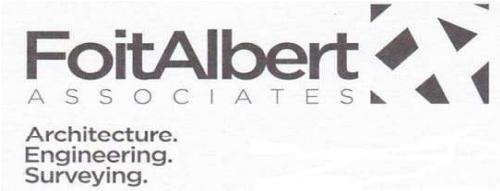
See Excel Estimate sheet for item 564.100001 for quantity

Calculated Value:					543.00		LB	
Percentage Increases:					0.00%			
Estimated Value:					543		LB	

Calculated Value:	278.00	LF
Percentage Increases:	0.00%	
Estimated Value:	278	LF



Calculated Value:	102.00	LF
Percentage Increases:	0.00%	
Estimated Value:	102	LF



JOB: Pine Hill Rd & Smith Clover Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____ SN _____ Date 11/5/2024

CHECKED BY: _____ AA _____ Date 11/15/2024

SCALE: _____

Item:	570.09	ENVIRONMENTAL GROUND PROTECTION														LS
<u>Note:</u> Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)																
Description													Quantity			
	Length		Sides													
	20.33		2											40.67		LF
													Use =			
													1			
													LS			

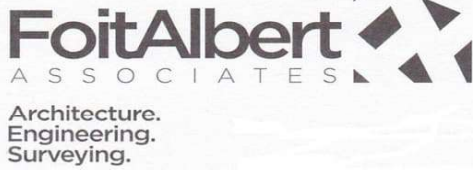
Calculated Value:	1.00	LS
Percentage Increases:	0.00%	
Estimated Value:	1	LS

Item: 570.160001 CLASS b CONTAINMENT FOR PAINT REMOVAL LS

Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description														Quantity		
	Length	Sides														
	4.00													1.00		LS

Calculated Value:	1.00	LS
Percentage Increases:	0.00%	
Estimated Value:	1	LS



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ AA _____ Date 5/8/2025
CHECKED BY: _____ SN _____ Date 5/9/2025
SCALE: _____

Item: 571.03 DISPOSAL OF HAZARDOUS PAINT WASTE CONTAINING LEAD LB

Note: Reference Sheet No.: 19' culvert span + 8" overhang (BD-RP4 alternate termination detail)

Description														Quantity		
qty each loc		Sides														
100.00	lb	4												400.00		LB

Calculated Value:	400.00	LB
Percentage Increases:	0.00%	
Estimated Value:	400	LB

Item: 574.030001 STRUCTURAL STEEL PAINTING: LOCALIZED SF

Note:

Description

Quantity



W 36 X 150

12X2+36X2+5.75X4=120 in^2

Surface area = 120 in^2

Total area for 5 ft girders=4.2 sf

32 Girder Ends =

134.4 SF

Sole Plate =14X10=

140x2=280

sides =14X2=28

2.14 sf 32 LOC=

19.26 SF

Base Plate=18X14 =

252X2= 504

SIDES=128

4.4 sf 32 LOC=

140.8 SF

Calculated Value:

294.46

SF

Percentage Increases:

20.00%

Estimated Value:

354

SF

										Calculated Value:	187.00	SF
Due to unforeseen condition of slab										Percentage Increases:	20.00%	
										Estimated Value:	225	SF

Item: 585.01 STRUCTURAL LIFTING OPERATIONS - TYPE A EACH

Note: Reference Sheet No.:

Description															Quantity		
Quantities																	
12.00															12.00	EACH	

Calculated Value:	12.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	12	EACH

Item: 586.0201 DRILLING AND GROUTING BOLTS OR REINFORCEMENT BARS EACH

Note: Reference Sheet No.:

Description

Quantity

Quantities

pedestals=

12

No of bars

10

AT EACH LOCATION

NO OF ANCHORS

44

164

EACH

Calculated Value:

164.00

EACH

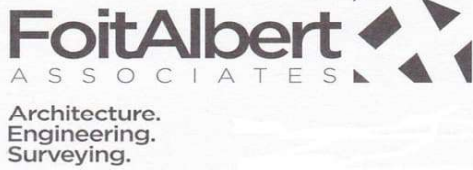
Percentage Increases:

10.00%

Estimated Value:

181

EACH



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ MHC Date 8/8/2025
SCALE: _____

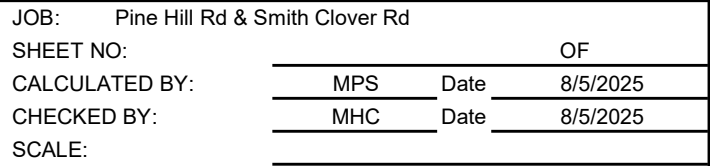
Item: 595.50000018 SHEET-APPLIED WATERPROOFING MEMBRANE SF

Note: Reference Sheet No.:

Description										Quantity			
Length		Width											
50.00		38.00										1900.00	SF

Calculated Value:	1,900.00	SF
Percentage Increases:	2.00%	
Estimated Value:	1,938	SF

Calculated Value:	300.00	LF
Percentage Increases:	0.00%	
Estimated Value:	300	LF

[illegible]

FoitAlbert
ASSOCIATES

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JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____

CALCULATED BY: _____

MPS Date 8/8/2025

CHECKED BY: _____

MHC Date 8/8/2025

SCALE: _____

Item: 606.1001 BOX BEAM GUIDE RAILING WITH EXTRA LONG POSTS

LF

Note: Reference Sheet No.:XXXXXX

Description

Quantity



JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO:

CALCULATED BY:

CHECKED BY:

SCALE:

MPS Date 8/8/2025

MHC Date 8/8/2025

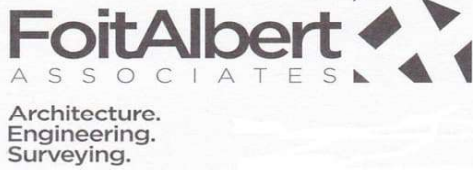
Item: 606.1001 BOX BEAM GUIDE RAILING WITH EXTRA LONG POSTS

LF

Note: Reference Sheet No.:XXXXXX

Description										Quantity			
BOX BEAM GUIDE RAIL					Length								
SB					968+29	974+48	619	975+66	979+95	429		1048	LF
NB					963+19	974+40	1121	975+59	978+64	305		1426	LF

calculated Value:	2,473.99
percentage Increase:	0.00%
estimated Value:	2,474



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ SN Date 8/8/2025
SCALE: _____

Item: 606.120102 BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I EACH

Note: Reference Sheet No.:XXXXXX

Description										Quantity			
BOX BEAM GUIDE RAIL				Length									
SB				72.0								1.0	EACH
NB				72.0								1.0	EACH

Calculated Value:	2.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	2	EACH

Item: 606.120201 BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA EACH

Note: Reference Sheet No.:XXXXXX

Description										Quantity			
BOX BEAM GUIDE RAIL					Length								
SB					18.0					1.0			EACH
NB					18.0					1.0			EACH

Calculated Value:	2.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	2	EACH

Item: 606.52 RESETTING CORRUGATED BEAM MEDIAN BARRIER LF

Note: Reference Sheet No.: Sheet No. B10

Description										Quantity			
BOX BEAM GUIDE RAIL										Length			
NB dir near existing OHSS										260.0		260.0	LF
SB dir near existing OHSS										260.0		260.0	LF

Calculated Value:	520.00	LF
Percentage Increases:	0.00%	
Estimated Value:	520	LF

Item: 606.5910

**RESETTING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE
RAILING FOR MEDIAN BARRIER**

EACH

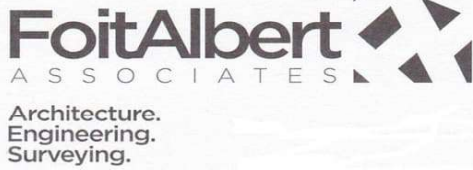
Note: Reference Sheet No. B10

Description

Quantity

LOCATION	Quantity																		
NB Existing OHSS STA. 970	1.0																1.0	EACH	
SB Existing OHSS STA. 970	1.0																1.0	EACH	

Calculated Value:	2.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	2	EACH



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 5/27/2025
CHECKED BY: _____ MHC Date 5/27/2025
SCALE: _____

Item: 606.62 REMOVING AND STORING CORRUGATED BEAM MEDIAN BARRIER LF

Note: Reference Sheet No.:Sheet No. B10

Description										Quantity			
BOX BEAM GUIDE RAIL										Length			
NB dir near existing OHSS										260.0			
SB dir near existing OHSS										260.0			

Calculated Value:	520.00	LF
Percentage Increases:	0.00%	
Estimated Value:	520	LF

Item: 606.65 REMOVING AND STORING PRECAST CONCRETE BARRIER LF

Note: Reference Sheet No.:XXXXXX

Description										Quantity			
BOX BEAM GUIDE RAIL										# of Pieces			
										Length/Piece			
SB										5.0	20.0	100.0	LF
NB										5.0	20.0	100.0	LF

Calculated Value:	200.00	LF
Percentage Increases:	0.00%	
Estimated Value:	200	LF

Item: 606.6910

**REMOVING AND STORING ANCHORAGE UNITS FOR CORRUGATED
BEAM GUIDE RAILING AND MEDIAN BARRIERS**

EACH

Note: Reference Sheet No.:XXXXXX

Description

Quantity

BOX BEAM GUIDE RAIL

NB dir near existing OHSS

1.0

EACH

SB dir near existing OHSS

1.0

EACH

Calculated Value:

2.00

EACH

Percentage Increases:

0.00%

Estimated Value:

2

EACH



JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____ MPS Date 8/8/2025

CHECKED BY: _____ MHC Date 8/8/2025

SCALE: _____

Item: 606.71 REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING

LF

Note: Reference Sheet No.:XXXXXX

Description														Quantity							
BOX BEAM GUIDE RAIL								Length													
SB								961+47	974+83	1336	977+75	980+11	236.3							1572.3	LF
NB								963+04	974+75	1171	975+31	978+42	311.5							1482.1	LF

Calculated Value:	3,054.41	LF
Percentage Increases:	0.00%	
Estimated Value:	3,055	LF

Item: 606.7910

**REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED
BEAM GUIDE RAILING AND MEDIAN BARRIER**

EACH

Note: Reference Sheet No.:XXXXXX

Description

Quantity

BOX BEAM GUIDE RAIL

NORHT EAST

1.0

EACH

SOUTH WEST

1.0

EACH

NORTH WEST

1.0

EACH

SOUTH EAST

1.0

EACH

Calculated Value:

4.00

EACH

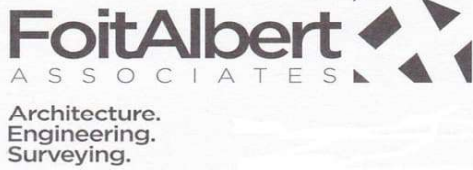
Percentage Increases:

0.00%

Estimated Value:

4

EACH



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ MHC Date 8/8/2025
SCALE: _____

Item: 606.8803 **TRANSITION BETWEEN BOX BEAM GUIDE RAIL AND SINGLE SLOPE
HALFSECTION CONCRETE BARRIER(ONE OR TWO WAY OPERATION)** EACH

Note: Reference Sheet No.:XXXXXX

Description										Quantity			
BOX BEAM GUIDE RAIL					Length								
SB Begin Abutment					40.0							1.0	EACH
SB End Abutment					40.0							1.0	EACH
NB Begin Abutment					40.0							1.0	EACH
NB End Abutment					40.0							1.0	EACH

Calculated Value:	4.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	4	EACH



JOB: Pine Hill Rd & Smith Clover Rd

SHEET NO: _____ OF _____

CALCULATED BY: _____ MPS Date 8/5/2025

CHECKED BY: _____ MHC Date 8/5/2025

SCALE: _____

Item: 610.1402 TOPSOIL - ROADSIDE

CY

Note: Reference Sheet No.:

Description

Quantity

MedianShoulder Restorariion

Side	Length	Width	Depth								
NB Begin LT	2961.00	11.000	0.333						402.11	CY	
NB End LT	1241.00	11.000	0.333						168.53	CY	
SB Begin LT	1241.00	11.000	0.333						168.53	CY	
SB End LT	2961.00	11.000	0.333						402.11	CY	

Calculated Value:	1,141.28	CY
Percentage Increases:	0.00%	
Estimated Value:	1,142	CY



JOB: Pine Hill Rd & Smith Clover Rd
 SHEET NO: _____ OF _____
 CALCULATED BY: _____ MPS Date 8/5/2025
 CHECKED BY: _____ MHC Date 8/5/2025
 SCALE: _____

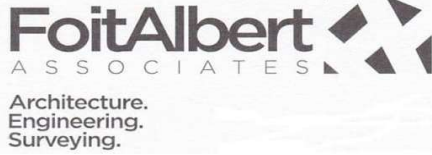
Item: **610.1601 TURF ESTABLISHMENT - ROADSIDE** **SY**

Note: Reference Sheet No.: Added 20% contingency as this item always goes over; Area between curb & sidewalk

Description															Quantity				

MedianShoulder Restorariion																			
Side	Length	Width																	
NB Begin LT	2961.00	11.000													3619.00			SY	
NB End LT	1241.00	11.000													1516.78			SY	
SB Begin LT	1241.00	11.000													1516.78			SY	
SB End LT	2961.00	11.000													3619.00			SY	

Calculated Value:	10,271.56	SY
Percentage Increases:	0.00%	
Estimated Value:	10,272	SY



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 5/27/2025
CHECKED BY: _____ MHC Date 5/27/2025
SCALE: _____

Item: 619.080101 REMOVE PAVEMENT MARKING STRIPES, TRAFFIC PAINT LF

Note: Reference Sheet No.:

Description														Quantity				
Stage	From Station	To Station	Side	Type	Length (Ft)	Width (in)	Pay Factor	No Stri pe	NB & SB sides					Payable				
2	944+16.64	988+70.09	RT	WEL	4453.45	6	1.5	1			2			13360				LF
	944+16.64	988+70.09	RT	YEL	4453.45	6	1.5	1			2			13360				LF
	944+17.64	988+71.09	RT	WBL	4453.45	6	0.375	1			2			3340				LF
3	961+42.00	985+45.00	RT	WEL	2403.00	6	1.5	1			2			7209				LF
	944+17.00	985+45.00	RT	YEL	4128.00	6	1.5	1			2			12384.00				LF
	961+42.00	985+45.00	RT	WBL	2403.00	6	0.375	1			2			1802.25				LF

Calculated Value:	51,456.04	LF
Percentage Increases:	0.00%	
Estimated Value:	51,457	LF

Item: 619.0803

**COVER EXISTING PAVEMENT MARKING STRIPES (REMOVABLE
TAPE)**

LF

Note: Reference Sheet No.:

Description

Quantity

Quantity

Direction

1327.00

NB

1327.00

LF

1327 SB

1327.00

LF

See " TABLE OF GUIDE QUANTITIES" SHEET Drawing TGQ

Calculated Value:

2,654.00

LF

Percentage Increases:

0.00%

Estimated Value:

2,654

LF



JOB: Pine Hill Rd & Smith Clover Rd

SHEET NO: _____ OF _____

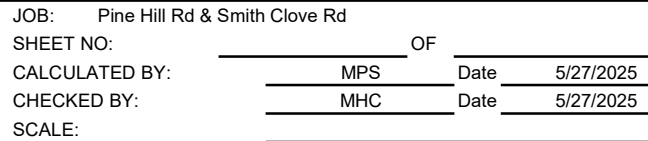
CALCULATED BY: _____ MPS _____ Date 5/28/2025

CHECKED BY: _____ MHC _____ Date 5/28/2025

SCALE: _____

Item:		619.100101 INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)																LF	
<u>Note:</u> Reference Sheet No.:																			
Description																Quantity			
	Quantity																		
	1000.00																1000.00		LF

Calculated Value:	1,000.00	LF
Percentage Increases:	0.00%	
Estimated Value:	1,000	LF



LF

Quantity

Calculated Value:	51,456.04	LF
Percentage Increases:	0.00%	
Estimated Value:	51,457	LF

Item: 619.17060005 Linear Delineation system

LF

Note: Reference Sheet No.:

Description										Quantity		
Quantity	Length											
	300	Smith Clove Road								300.00		LF
	300	Smith Clove Road								300.00		LF
										0.00		LF
	0									0.00		LF

Calculated Value:	600.00	LF
Percentage Increases:	0.00%	
Estimated Value:	600	LF

Item: 619.1706 25 Linear Delineation system

LF

Note: Reference Sheet No.:

Description										Quantity		
Quantity		Length										
957+62	977+30	1968	-	-	1968						1968.00	LF
967+96	970+56	260	-	-	260						260.00	LF
972+77	992+45	1710	-	-	1968						1968.00	LF
969+29	971+89	260	-	-	260						260.00	LF

Calculated Value:	4,456.00	LF
Percentage Increases:	0.00%	
Estimated Value:	4,456	LF

Item: 619.1716

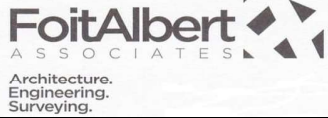
Temporary Positive Barrier - Category 6 (Pinning Required)

LF

Note: Reference Sheet No.:

Description										Quantity		
Quantity				Length								
967+96	970+56	260	-	-	260	Stage 1 NB				260.00	LF	
969+29	971+89	260	-	-	260	Stage 4 SB				260.00	LF	
957+62	977+30	1,968	-	-	1968	Stage 2 NB				1968.00	LF	
972+77	992+45	1,968	-	-	1968	Stage 5 SB				1968.00	LF	
					300	Stage 1 Smith Clove Road				300.00	LF	
					300	Stage 2 Smith Clove Road				300.00	LF	

Calculated Value:	5,056.00	LF
Percentage Increases:	0.00%	
Estimated Value:	5,056	LF



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ AA Date 5/8/2025
CHECKED BY: _____ SN Date 5/9/2025
SCALE: _____

Item: 619.1719 WARNING LIGHTS ON TEMPORARY POSITIVE BARRIER EACH

Note: Reference Sheet No.:

Description										Quantity		
Quantity												
South side of Smith Clove Rd										10	10.00	EACH
North side of Smith Clove Rd										10	10.00	EACH



Calculated Value:	20.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	20	EACH

Item: 619.1724

**CORRUGATED BEAM TO FLARED TEMPORARY CONCRETE BARRIER
TRANSITION**

EACH

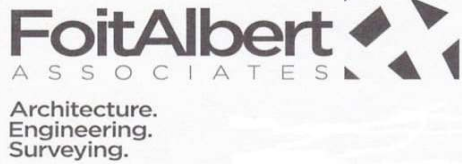
Note: Reference Sheet No. B10

Description

Quantity

LOCATION	Quantity																		
NB Existing OHSS STA. 970	1.0																1.0	EACH	
SB Existing OHSS STA. 970	1.0																1.0	EACH	

Calculated Value:	2.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	2	EACH



JOB: Pine Hill Rd & Smith Clove Rd

SHEET NO: _____ OF _____

CALCULATED BY: AA Date 5/8/2025

CHECKED BY: SN Date 5/9/2025

SCALE: _____

Item: 620.03 STONE FILLING (LIGHT) CY

Description

Quantity

Stone gutter

Sides

Length

Width

Depth

NE

30.00

7.50

1.00

8.33

CY

NW

30.00

7.50

1.00

8.33

SE

30.00

7.50

1.00

8.33

SW

30.00

7.50

1.00

8.33

Calculated Value:

33.33

CY

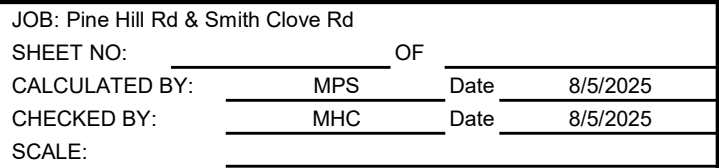
Percentage Increases:

5.00%

Estimated Value:

35

CY



LF

Quantity

Calculated Value:	8,634.00	LF
Percentage Increases:	0.00%	
Estimated Value:	8,634	LF



Item: 635.04030225

RECESS DIAMOND GRINDING FOR INLAID PAVEMENT MARKINGS

LF

Note: Reference Sheet No.:

Description								Quantity							
Location															
NB	973+78	976+29	251	WEL			251							251	LF
NB	973+78	976+29	63	WBL			63							63	LF
SB	973+78	976+29	251	WEL			251							251	LF
SB	973+78	976+29	63	WBL			63							63	LF
NB	973+78	976+29	251	YSL			251							251	LF
SB	973+78	976+29	251	YSL			251							251	LF

Calculated Value:	1,130.00	LF
Percentage Increases:	0.00%	
Estimated Value:	1,130	LF

Calculated Value:	1,004	LF
Percentage Increases:	0.00%	
Estimated Value:	1,004	LF

Item: 654.0702 REMOVE AND STORE IMPACT ATTENUATOR SYSTEMS EACH

Note: Reference Sheet No. B10

Description										Quantity			
LOCATION										Quantity			
NB AT the bride fascia										1.0			
SB at the bridge fascia										1.0			

Calculated Value:	2.00	EACH
Percentage Increases:	0.00%	
Estimated Value:	2	EACH



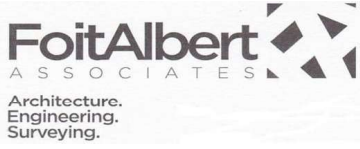
JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ MHC Date 8/8/2025
SCALE: _____

Item: 685.1707 25 WHITE HIGHLIY REFLECTORIZED TRIPLE DROP EPOXY 6" LF

Note: Reference Sheet No.:

Description										Quantity									
					Pay Factor														
NB	973+78	976+29	251	WEL	1.5	376.5											376.5		LF
NB	973+78	976+29	251	WBL	0.375	94.125											94.13		LF
SB	973+78	976+29	251	WEL	1.5	376.5											376.5		LF
SB	973+78	976+29	251	WBL	0.375	94.125											94.13		LF

Calculated Value:	941	LF
Percentage Increases:	0.00%	
Estimated Value:	942	LF



JOB: Pine Hill Rd & Smith Clove Rd
SHEET NO: _____ OF _____
CALCULATED BY: _____ MPS Date 8/8/2025
CHECKED BY: _____ MHC Date 8/8/2025
SCALE: _____

Item: 685.1708 25 YELLOW HIGHLY REFLECTORIZED TRIPLE DROP-EXPO 6" LF

Note: Reference Sheet No.:

Description							Quantity									
					Pay Factor											
NB	973+78	976+29	251		1.5	251									376.5	LF
SB	973+78	976+29	251		1.5	251									376.5	LF

Calculated Value:	753	LF
Percentage Increases:	0.00%	
Estimated Value:	753	LF

Item: 698.05 FUEL PRICE ADJUSTMENT

DC

Note: Reference Sheet No.: Assume that the project is a two year project and the midpoint of construction will be in 2026.
Assume an escalation rate of \$0.20/gal/year

Description

Quantity

Item #	Item Quantity	Fuel Conversion Factor	Escalation (per gallon per year)			
203.02	16,111	0.35	\$ 0.20	\$	1,127.77	DC
206.0201	34	0.5	\$ 0.20	\$	3.40	DC
304.12	4859.00	1	\$ 0.20	\$	971.80	DC
404.09720025	1,836	2.5	\$ 0.20	\$	918.00	DC
404.19790025	3,774	2.5	\$ 0.20	\$	1,887.00	DC
404.37790025	6,661	2.5	\$ 0.20	\$	3,330.50	DC
490.30	3,068	0.1	\$ 0.20	\$	61.36	DC
557.2119	286	0.25	\$ 0.20	\$	14.30	DC
569.04	102	0.17	\$ 0.20	\$	3.47	DC
610.1402	1,142	0.45	\$ 0.20	\$	102.78	DC
620.03	35	0.1	\$ 0.20	\$	0.70	DC
620.0801	35	0.1	\$ 0.20	\$	0.70	DC

Calculated Value: 8,421.78 DC

Percentage Increases: 0.00%

Estimated Value: 8,500.00 DC

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	203.24000025	SHOULDER BACKUP MATERIAL
-------	--------------	--------------------------

Unit: TON

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	TJ	5/21/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: DC

ITEM 404.0002 (DC)									
Pavement Density Quality Adjustment to Asphalt Items									
LOCATION		From MP 46.0 to 48.0	Less Smith Clove	Top Thickness	Pavement Lanes Width	Tons/CF	Max. Quality adjustment factor		QU
		ft		in	ft				
NYS THRUWAY NB		10560	250	2	24	0.072	0.05		148.46
NYS THRUWAY SB		10560	250	2	24	0.072	0.05		148.46
*Excluding shoulder									
Mill and Overlay QTYs between STA 973+78 to STA 976+28 included in Estimate for I087 Bridge Rehabilitation over Smith Clove									
U-Turn at STA 961+50		750.00	SQFT	2		0.07	0.05		0.45
TOTAL:									297.38
Added for unanticipated field conditions:									0.0
SAY:									298

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	TJ	5/21/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: DC

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: TON

ITEM 404.1251 (TON)								
12.5 F1 Top Course Asphalt, 50 Series Compaction								
LOCATION		From MP 46.0 to 48.0	Less Smith Clove	Top Thickness	Pavement Width	Tons/CF		TON
		ft		in	ft			(LxHxW)x0.072
NYS THRUWAY NB		10560	250	2	38	0.072		4701.36
NYS THRUWAY SB		10560	250	2	38	0.072		4701.36
Mill and Overlay QTYs between STA 973+78 to STA 976+28 included in Estimate for I087 Bridge Rehabilitation over Smith Clove								
		Area		Top Thickness				
U-Turn at STA 961+50		83.33	SQYDs	2				1.54
TOTAL:								9404.26
Added for unanticipated field conditions:								0.0
SAY:								9,405

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	407.01040009	NON-TRACKING TACK COAT
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Unit: GAL

ITEM 407.01040009 (GAL)								
NON-TRACKING TACK COAT								
LOCATION		From MP 46.0 to 48.0 ft	Less Smith Clove		Pavement Width ft	Gal/SQYD		GAL
NYS THRUWAY NB		10560	250		38	0.070		0.07x(LxW)/9 3047.18
NYS THRUWAY SB		10560	250		38	0.070		3047.18
0.07 gal / sy oN milled surface								
Mill and Overlay QTYs between STA 973+78 to STA 976+28 included in Estimate for I087 Bridge Rehabilitation over Smith Clove								
		Area				Gal/SQYD		
U-Turn at STA 961+50		83.33	SQYDs			0.070		5.83
TOTAL:								6100.19
Added for unanticipated field conditions:								0.0
SAY:								6,101

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	418.7603	ASPHALT PAVEMENT JOINT ADHESIVE
-------	----------	---------------------------------

Unit: LF

ITEM 418.7603 (LF)								
ASPHALT PAVEMENT JOINT ADHESIVE								
LOCATION			From MP 46.0 to 48.0 ft	Less Smith Clove		Jts b/w passes		LF
NYS THRUWAY NB			10560	250		3.00		30930.00
NYS THRUWAY SB			10560	250		3.00		30930.00
along each of the roadway crown line								
Mill and Overlay QTYs between STA 973+78 to STA 976+28 included in Estimate for I087 Bridge Rehabilitation over Smith Clove								
TOTAL:								61860.00
Added for unanticipated field conditions:								0.0
SAY:								61,860

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: SY

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: SY

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

ITEM 606.17 (LF)								
CORRUGATED BEAM MEDIAN BARRIER								
LOCATION								LF
NYS THRUWAY MEDIAN		See Guiderail Summary Table (GR-04)						120.00
TOTAL:								120.00
Added for unanticipated field conditions:								0.0
SAY:								120

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.27	HEAVY POST BLOCKED-OUT (MOD.) CORRUGATED BEAM GUIDE RAILINGEND TERMINAL (ENERGY-ABSORBING)	Unit: EACH
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ITEM 606.27 (EACH)									
HEAVY POST BLOCKED-OUT (MOD.) CORRUGATED BEAM GUIDE RAILINGEND TERMINAL (ENERGY-ABSORBING)									
LOCATION									EACH
NYS THRUWAY NB		See Guiderail Summary Table (GR-04)							1.00
TOTAL:									1.00
Added for unanticipated field conditions:									0.0
SAY:									1

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

ITEM 606.4805 (EACH)								
I-BEAM POSTS FOR EXISTING CORRUGATED BEAM GUIDE RAILING								
LOCATION								EACH
NYS THRUWAY NB		See Guiderail Summary Table (GR-04)						2.00
TOTAL:								2.00
Added for unanticipated field conditions:								0.0
SAY:								2

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

ITEM 606.4813 (EACH)									
I-BEAM POSTS FOR EXISTING CORRUGATED BEAM MEDIAN BARRIER									
LOCATION									EACH
NYS THRUWAY MEDIAN		See Guidrail Summary Table (GR-04)							3.00
TOTAL:									3.00

		Added for unanticipated field conditions:	0.0
		SAY:	3

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

ITEM 606.51 (LF)									
RESETTING CORRUGATED BEAM GUIDE RAILING									
LOCATION									LF
NYS THRUWAY NB		See Guiderail Summary Table (GR-04)							50.00
NYS THRUWAY SB									-

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

ITEM 606.52 (LF)									
RESETTING CORRUGATED BEAM MEDIAN BARRIER									
LOCATION									LF
NYS THRUWAY MEDIAN		See Guiderail Summary Table (GR-04)							300.00
TOTAL:									300.00
Added for unanticipated field conditions:									0.0
SAY:									300

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.581001	RESETTING HEAVY POST BLOCKED-OUT (MOD.) CORRUGATED BEAM/MEDIAN BARRIER (NEW POSTS)	Unit: LF
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[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.7101	REMOVING AND DISPOSING HEAVY POSTS BLOKED-OUT (MOD.) CORRUGATED BEAM GUIDE RAILING	Unit: LF
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[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LF

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.7201	REMOVING AND DISPOSING HEAVY POSTS BLOCKED-OUT (MOD.) CORRUGATED BEAM MEDIAN BARRIER	Unit: LF
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[illegible]

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING
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Unit: LF

ITEM 606.73 (LF)								
REMOVING AND DISPOSING BOX BEAM GUIDE RAILING								
LOCATION								LF
NYS THRUWAY NB		See Guiderail Summary Table (GR-04)						283.00
TOTAL:								283.00

								Added for unanticipated field conditions:	0.0
								SAY:	283

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	606.8903	TRANSITION: HEAVY POSTS BLOCKED OUT (MOD.) CORRUGATED BEAMGUIDE RAILING TO SINGLE SLOPE CONCRETE HALF SECTION BARRIER	Unit: EACH
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[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	TJ	5/21/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: LS

ITEM 619.2403 (LS)									
Nighttime Operations (Each Location)									
LOCATION									LS
NYS THRUWAY NB & SB									1.00
TOTAL:									1.00
Added for unanticipated field conditions:									0.0
SAY:									1

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

[illegible]

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	646.06030025	INSTALL DELINEATOR ON POST
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Unit: EACH

[illegible]

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Unit: EACH

ITEM 646.06260025 (EACH)									
INSTALL MILE MARKERS									
LOCATION									EACH
NYS THRUWAY NB									3.00
NYS THRUWAY SB									3.00
only "full" mile markers are included, tenth of miles are priced with delineators due to identical installation method									
TOTAL:									6.00

Added for unanticipated field conditions:								0.0
SAY:								6

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	647.83001002	REMOVAL AND DISPOSAL OF DELINEATORS AND/OR REFERENCE MARKERSWITH OR WITHOUT POSTS	Unit: EACH
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[illegible]

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:	AJCE	8/6/2025
Revised By:		
Backchecked By:		

Item:	649.01	MILLED-IN AUDIBLE ROADWAY DELINEATORS (MIARDS)
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Unit: LF

ITEM 649.01 (LF)								
MILLED-IN AUDIBLE ROADWAY DELINEATORS (MIARDS)								
LOCATION								LF
NYS THRUWAY NB								21120.00
NYS THRUWAY SB								21120.00
2 miles each direction for both shoulder and median								
TOTAL:								42240.00
Added for unanticipated field conditions:								0.0
SAY:								42,240

Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	PC	1/14/2025
Checked By:		
Revised By:		
Backchecked By:		

Unit: QU

[illegible]

PIN: TANY 26-17B
BIN: -
Project: Pavement Resurfacing and Safety Improvement
 NY Division MP 46.0 to 48.0
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
 Initials Date
Prepared By: PC 1/14/2025
Checked By: AJCE 8/6/2025
Revised By: _____
Backchecked By: _____

Item: 685.17070025 WHITE HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES 6 INCH WIDTH X 20 MILS **Unit:** LF

ITEM 685.17070025 (LF)									
WHITE HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES 6 INCH WIDTH X 20 MILS									
LOCATION		From MP 46.0 to 48.0 ft							LF
NYS THRUWAY NB		10560							13200.00
NYS THRUWAY SB		10560							13200.00
2 miles each direction, 1.0 for edge line, 0.25 for dashed lines [x length (feet)]									
4. METHOD OF MEASUREMENT: 4.01 Pavement striping will be measured in feet along the centerline of the pavement stripe and will be based on a <u>6-inch</u> wide stripe. Measurement for striping with a plan width greater or lesser than the 6 inches as shown on the plans or directed by the Engineer, will be made by the following method: <div style="text-align: center; margin: 10px 0;"> $\frac{\text{Plan Width of Striping (inches)} \times \text{Feet}}{6 \text{ inches}}$ </div>									
TOTAL:									26400.00

Added for unanticipated field conditions:	0.0
SAY:	26,400

PIN: TANY 26-17B
BIN: -
Project: Pavement Resurfacing and Safety Improvement
 NY Division MP 46.0 to 48.0
 AECOM Project #: 60699669
Subject: Quantity Cost Take-Off Calculations
Dsgn. Phase: PS&E Plans

Sheet: _____
Highway No.: _____
Date: _____
Company: AECOM
 Initials Date
Prepared By: PC 1/14/2025
Checked By: AJCE 8/6/2025
Revised By: _____
Backchecked By: _____

Item: 685.17080025 YELLOW HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES 6 INCH WIDTH X 20 MILS Unit: LF

ITEM 685.17080025 (LF)									
YELLOW HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES 6 INCH WIDTH X 20 MILS									
LOCATION		From MP 46.0 to 48.0 ft							LF
NYS THRUWAY NB		10560							10560.00
NYS THRUWAY SB		10560							10560.00
2 miles each direction for dashed and yellow lines [x length (feet)]									
4. METHOD OF MEASUREMENT:									
4.01 Pavement striping will be measured in feet along the centerline of the pavement stripe and will be based on a <u>6-inch wide</u> stripe. Measurement for striping with a plan width greater or lesser than the 6 inches as shown on the plans or directed by the Engineer, will be made by the following method:									
$\frac{\text{Plan Width of Striping (inches)} \times \text{Feet}}{6 \text{ inches}}$									
TOTAL:									21120.00

Added for unanticipated field conditions:	0.0
SAY:	21,120

PIN:	TANY 26-17B
BIN:	-
Project:	Pavement Resurfacing and Safety Improvement
	NY Division MP 46.0 to 48.0
	AECOM Project #: 60699669

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

Sheet: _____
 Highway No.: _____
 Date: _____
 Company: AECOM

	Initials	Date
Prepared By:	GWR	8/11/2025
Checked By:	MR	8/13/2025
Revised By:	MR	1/19/2026
Backchecked By:	AJCE	1/20/2026

Item:	698.04	ASPHALT PRICE ADJUSTMENT
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Unit: DC

ITEM 698.04 (DC)								
ASPHALT PRICE ADJUSTMENT								
FROM ITEM	UNIT	CONVERT FACTOR (TON PGB/UNIT)	TON PGB	ASPHALT PRICE (JAN 2026)	ASSUMED ESCAL'TN	MONTHLY AVERAGE PRICE	PRICE ADJUST	DC
404.1251	9405	0.055	517.28	643	100	743	43968.8	43968.80
407.0104009	6101	0.0016	9.76	643	100	743	829.6	829.60
<p>698-3.01 Asphalt Price Adjustment. The asphalt price adjustment will be based solely on the price changes for asphalt as determined by the formulas below. No adjustment will be made if the monthly average posted price is within \$15.00 of the asphalt index price. No consideration will be given to the situation where an individual supplier's price exceeds the monthly average posted price.</p> <p>A. Prices. The asphalt index price and the monthly average posted price are defined as follows:</p> <p>1. Asphalt Index Price. The asphalt index price is a price per ton of Performance Graded Binder (PGB) used solely as a basis from which to compute asphalt price adjustments. The asphalt index price for original contract bid price items and additional work at the original contract bid price will be the monthly average posted price for the month of the bid letting. The asphalt index price for additional work at agreed price will be the monthly average posted price for the month the agreed price was submitted to the Engineer.</p> <p>2. Monthly Average Posted Price. The average terminal price for unmodified PG 64S-22 binder, without anti-stripping agent, determined by the Department, based on prices of approved primary sources of PGB.</p> <p>B. Quantity. The quantity of asphalt in tons considered for adjustment will be determined by multiplying the quantity of eligible work completed by the conversion factors listed in the Special Note entitled <i>Asphalt Price Adjustment</i>.</p> <p>C. Adjustment. Asphalt price adjustment will be based on the following formulas:</p> <p>1. When price increases: Price Adjustment = (Quantity of Asphalt) x (Monthly Average Posted Price - PGB Index Price - \$15.00)</p> <p>2. When price decreases: Price Adjustment = (Quantity of Asphalt) x (Monthly Average Posted Price - PGB Index Price + \$15.00)</p>								
TOTAL:								44798.40
Added for unanticipated field conditions:								0.0
SAY:								44.799

Subject: Quantity Cost Take-Off Calculations

Dsgn. Phase: PS&E Plans

	Initials	Date
Prepared By:	GWR	8/11/2025
Checked By:	MR	8/13/2025
Revised By:	MR	1/19/2026
Backchecked By:	AJCE	1/20/2026

Unit: DC

ITEM 698.05 (DC)								
FUEL PRICE ADJUSTMENT								
ITEM	UNIT	CONVERT FACTOR (GAL/UNIT)	GAL	FUEL PRICE (Jan 26)	ASSUMED ESCAL'TN	MONTHLY AVERAGE PRICE	PRICE ADJUST	DC
404.1251	9,405	2.5	23512.5	1.98	1	2.98	21161.25	21161.25
490.1500	87063.00	0.1	8706.3	1.98	1	2.98	7835.67	7835.67
490.3000	84.00	0.1	8.4	1.98	1	2.98	7.56	7.56
Fuel price adjustments taken from, https://www.dot.ny.gov/main/business-center/contractors/construction-division/fuel-asphalt-steel-price-adjustments								
<p>698-3.02 Fuel Price Adjustment. The fuel price adjustment will be based solely on the price changes for fuel as determined by the formulas below. No adjustment will be made if the monthly average posted price is within \$0.10 per gallon of the fuel index price. No consideration will be given to the situation where an individual supplier's price exceeds the monthly average posted price,</p> <p>A. Prices. The fuel index price and the monthly average posted price are defined as follows:</p> <p>1. Fuel Index Price. A price per gallon of fuel used solely as a basis from which to compute fuel price adjustments. The fuel index price for original contract bid price items and additional work at the original contract bid price will be the monthly average posted price for the month of the bid letting. The fuel index price for additional work at agreed price will be the monthly average posted price for the month the agreed price was submitted to the Engineer.</p> <p>2. Monthly Average Posted Price. An average refinery or terminal price based on prices for ultra low sulfur diesel (ULSD) and gasoline.</p> <p>B. Quantity. The quantity of fuel in gallons considered for adjustment will be determined by multiplying the quantity of eligible work completed by the fuel usage factor listed in the Special Note entitled <i>Fuel Price Adjustment</i>.</p> <p>C. Adjustment. Fuel price adjustment will be based on the following formulas:</p> <p>1. When price increases: Price Adjustment = (Quantity of Fuel) x (Monthly Average Posted Price - Fuel Index Price - \$0.10)</p> <p>2. When price decreases: Price Adjustment = (Quantity of Fuel) x (Monthly Average Posted Price - Fuel Index Price + \$0.10)</p>								
TOTAL:								29004.48
Added for unanticipated field conditions:								0.0
SAY:								29,005