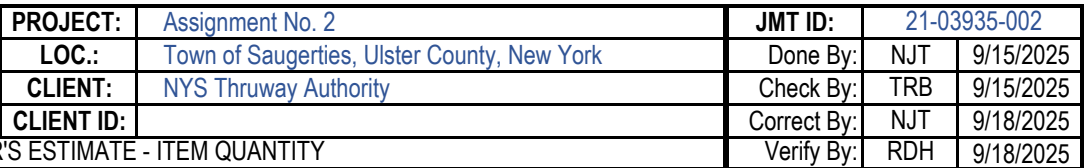
	<b>PROJECT:</b>	Assignment No. 2 - Malden Turnpike (CR 34) over Mainline NYS Thruway	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	<b>Done By:</b>	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	<b>Check By:</b>	TRB	9/15/2025
	<b>CLIENT ID:</b>		<b>Correct By:</b>	NJT	9/18/2025
<b>SUBJECT:</b> BRIDGE ESTIMATE - PS&E			<b>Verify By:</b>	RDH	9/18/2025

NYS DOT ITEM NO.	Description	UNIT	QUANT.	ENGINEERS ESTIMATE	
				Unit Price	Amount
<a href="#">202.120001</a>	Removing Existing Superstructures	LS	1	\$ 500,000.00	\$ 500,000.00
<a href="#">202.19</a>	Removal of Substructures	CY	248	\$ 200.00	\$ 49,600.00
<a href="#">203.02</a>	Unclassified Excavation and Disposal	CY	220	\$ 60.00	\$ 13,200.00
<a href="#">203.03</a>	Embankment in Place	CY	100	\$ 40.00	\$ 4,000.00
<a href="#">203.03240017</a>	Lightweight Embankment In Place (45 PCF) Loose Density	CY	600	\$ 100.00	\$ 60,000.00
<a href="#">203.0801</a>	Select Granular Fill, Slope Protection - Type A	CY	165	\$ 75.00	\$ 12,375.00
<a href="#">203.21</a>	Select Structural Fill	CY	325	\$ 90.00	\$ 29,250.00
<a href="#">206.01</a>	Structure Excavation	CY	1120	\$ 45.00	\$ 50,400.00
<a href="#">207.27</a>	Prefabricated Composite Integral Abutment Drain	SY	95	\$ 20.00	\$ 1,900.00
<a href="#">210.480201</a>	Removal and Disposal of Miscellaneous ACM	SF	8978	\$ 20.00	\$ 179,560.00
<a href="#">551.014117</a>	Steel H-Piles (HP 14x117)	LF	2775	\$ 115.00	\$ 319,125.00
<a href="#">551.03950017</a>	Predrilling Holes For Piles	LF	320	\$ 75.00	\$ 24,000.00
<a href="#">551.12</a>	Splices for Steel H-Piles	EA	23	\$ 500.00	\$ 11,500.00
<a href="#">551.13</a>	Furnishing Equipment for Driving Piles	LS	1	\$ 150,000.00	\$ 150,000.00
<a href="#">551.14</a>	Dynamic Pile Load Testing	EA	6	\$ 2,000.00	\$ 12,000.00
<a href="#">555.0011</a>	Footings Concrete, Performance	CY	59	\$ 1,500.00	\$ 88,500.00
<a href="#">555.0021</a>	Concrete for Structures, Performance	CY	169	\$ 2,000.00	\$ 338,000.00
<a href="#">555.9901</a>	Performance Concrete Quality Adjustment - Footing Concrete	QU	1	\$ 10.00	\$ 10.00
<a href="#">555.9902</a>	Performance Concrete Quality Adjustment - Concrete for Structures	QU	1	\$ 10.00	\$ 10.00
<a href="#">556.0203</a>	Galvanized Bar Reinforcement For Structures	LB	35600	\$ 3.50	\$ 124,600.00
<a href="#">556.03</a>	Stud Shear Connectors for Bridges	EA	3435	\$ 6.00	\$ 20,610.00
<a href="#">557.1019</a>	Structural Approach Slab with Integral Wearing Surface - Type 9 Friction	SY	178	\$ 500.00	\$ 89,000.00
<a href="#">557.1119</a>	Superstructure Slab with Integral Wearing Surface Bottom Formwork Required - Type 9 Friction	SY	894	\$ 650.00	\$ 581,100.00
<a href="#">557.9901</a>	Performance Concrete Quality Adjustment - Superstructure and Approach Slab	QU	1	\$ 7.58	\$ 7.58
<a href="#">558.02</a>	Longitudinal Sawcut Grooving of Structural Slab Surface	SY	939	\$ 10.00	\$ 9,390.00
<a href="#">559.01</a>	Protective Sealing of Structural Concrete on New Bridge Decks and Bridge Deck Overlays	SF	8576	\$ 0.60	\$ 5,145.60
<a href="#">559.02</a>	Protective Sealing of New Structural Concrete	SF	7285	\$ 1.00	\$ 7,285.00
<a href="#">564.0501</a>	Structural Steel, Type 1	LS	1	\$ 1,700,000.00	\$ 1,700,000.00
<a href="#">565.2035</a>	Type E.B. Expansion Bearings (Over 225 Kips)	EA	5	\$ 6,000.00	\$ 30,000.00
<a href="#">567.60</a>	Armorless Bridge Joint	LF	64	\$ 500.00	\$ 32,000.00
<a href="#">567.63</a>	Bridge Joint Seal	LF	64	\$ 80.00	\$ 5,120.00
<a href="#">568.70</a>	Transition Bridge Railing	LF	160	\$ 250.00	\$ 40,000.00
<a href="#">569.04</a>	Single Slope (Half Section) Concrete Bridge Barrier	LF	462	\$ 330.00	\$ 152,460.00
<a href="#">569.99</a>	Performance Concrete Quality Adjustment - Cast In Place Concrete Barrier	QU	1	\$ 13.35	\$ 13.35
<a href="#">570.01</a>	Lead Exposure Control Plan	LS	1	\$ 1,500.00	\$ 1,500.00
<a href="#">570.02</a>	Medical Testing	DC	6500	\$ 1.00	\$ 6,500.00
<a href="#">570.03</a>	Personal Exposure Monitoring Sample Analysis	DC	3000	\$ 1.00	\$ 3,000.00
<a href="#">570.04</a>	Decontamination Facilities	CW	4	\$ 1,000.00	\$ 4,000.00
<a href="#">571.03</a>	Disposal of Hazardous Paint Waste Containing Lead	LB	1800	\$ 2.00	\$ 3,600.00
<a href="#">572.0020125</a>	Metalizing	LS	1	\$ 200,000.00	\$ 200,000.00
<a href="#">607.06120025</a>	Protective Screening (Snow Fence)	LF	316	\$ 100.00	\$ 31,600.00
<a href="#">609.0301</a>	Stone Curb - Bridge (Type A)	LF	57	\$ 100.00	\$ 5,700.00
<a href="#">620.03</a>	Stone Fill (Light)	CY	47	\$ 250.00	\$ 11,750.00
<a href="#">620.0802</a>	Bedding Material, Type 2	CY	175	\$ 130.00	\$ 22,750.00
<a href="#">645.61000125</a>	Install Overhead Sign Panels (Authority Supplied)	EA	2	\$ 2,000.00	\$ 4,000.00

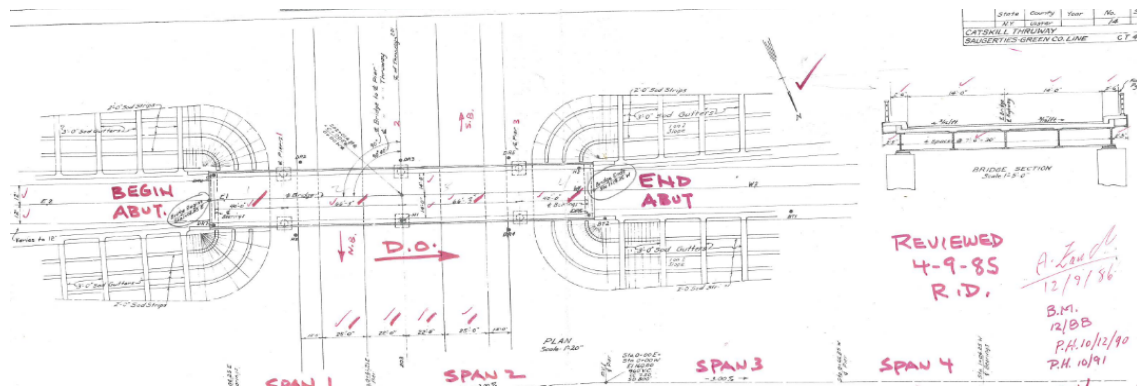
**Engineers Estimate Subtotal** **\$ 4,934,562**




Unit: LS

Desc.: Removing Existing Superstructures

ESTIMATED QUANTITY: 1 LS



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 202.19

Unit: CY

Desc.: Removal of Substructures

CALCULATED QUANTITY: 247.78 CY

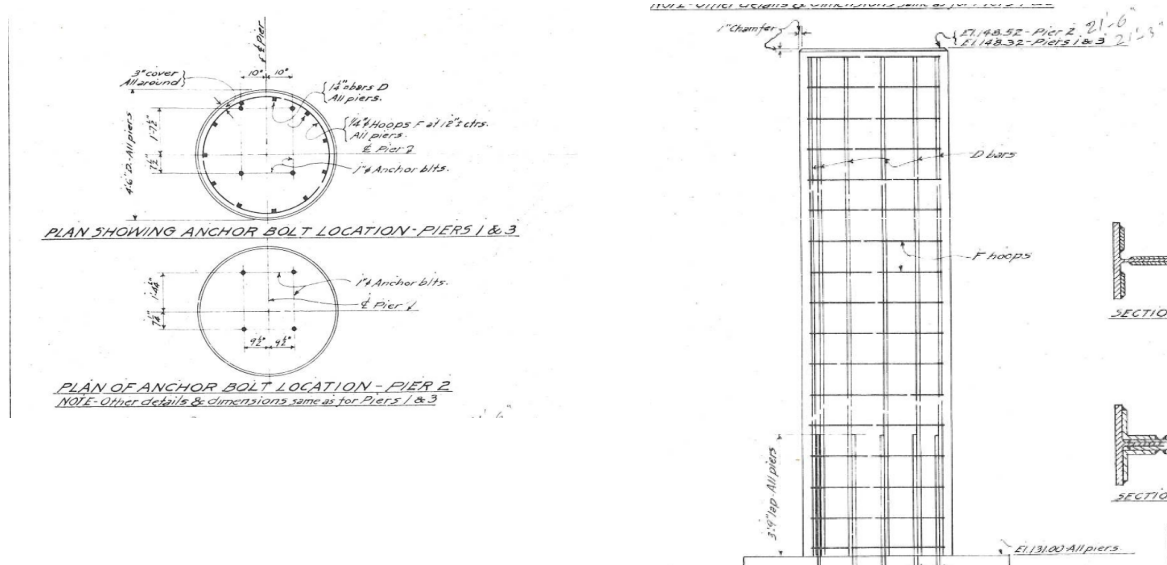
ESTIMATED QUANTITY: 248 CY


Volumes are taken from MicroStation and Record Plans

#### Pier Columns

	Diameter (ft)	Heights (ft)	Additional 2 ft	Qty	CF	CY
Pier 1&3	4.5	17.32	19.32	4	1229.09	45.52
Pier 2	4.5	15.52	17.52	2	557.29	20.64

Total Volume 66.16



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

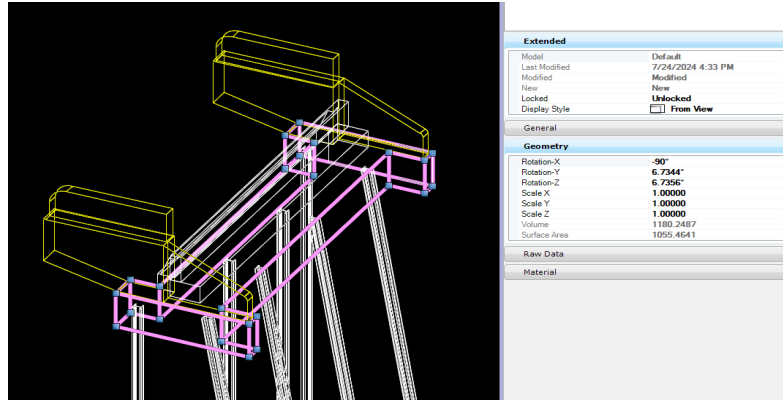
Item No.: 202.19

Unit: CY

Desc.: Removal of Substructures

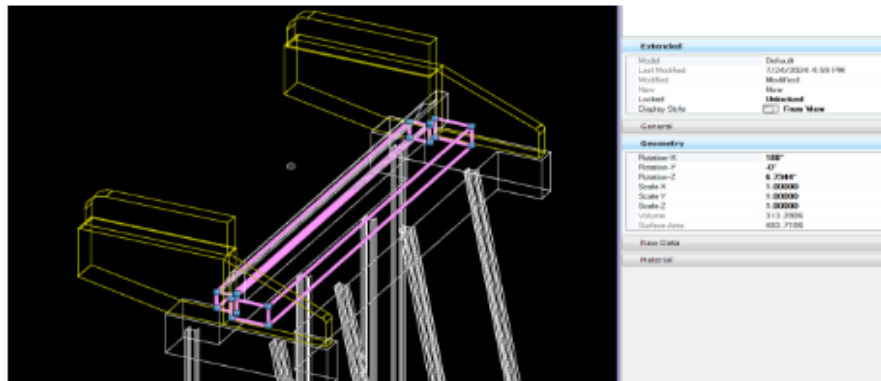
#### Bridge Footing

	CF	CY	Qty	Total Volume
Volume	1180.25	43.71	2	87.43




#### Bridge Stem

	CF	CY	Qty	Total Volume
Volume	313.28	11.60	2	23.21
Volume	178.19	6.60	2	13.20
				36.41



#### Bridge Wingwall

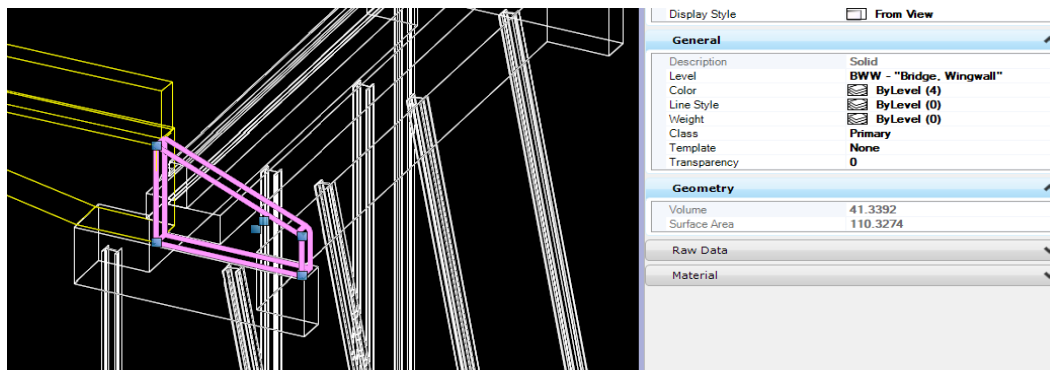
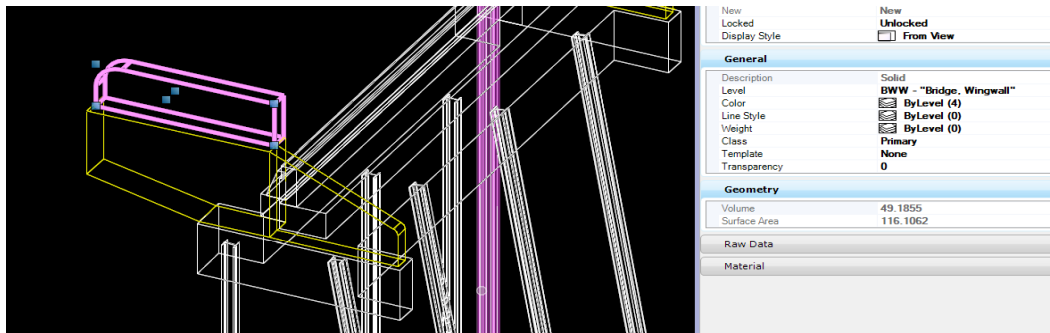
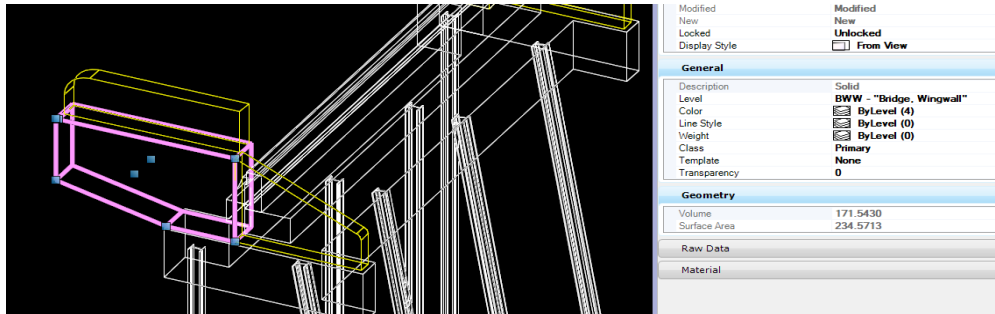
	CF	CY	Qty	Total Volume
	171.54	6.35	4	25.41
	49.19	1.82	4	7.29
	41.34	1.53	4	6.12
				38.82


	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 202.19

Unit: CY

Desc.: Removal of Substructures



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 202.19

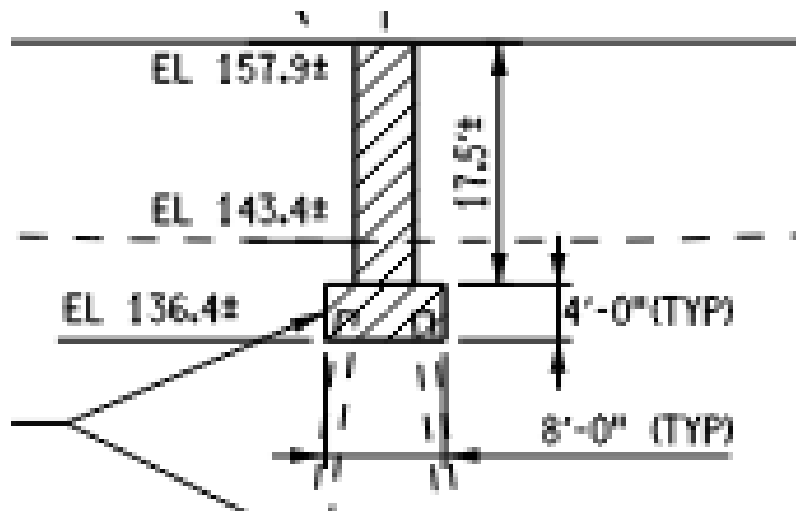
Unit: CY


Desc.: Removal of Substructures

Column Footings in Median

Width (ft)	Depth	Length	QTY	CF	CY
8	4	8	2	512	18.96

Length measured in MicroStation



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.02

Unit: CY

Desc.: Unclassified Excavation and Disposal

CALCULATED QUANTITY: 219.91 CY

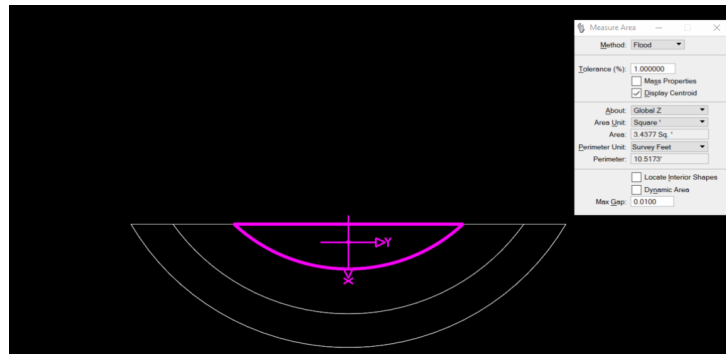
ESTIMATED QUANTITY: 220 CY


For Drainage Swales, use combined volumes from Items 620.03 and 620.0802 plus extra area on top

Location	620.03	620.0802	Volume (CY)
Beg Abut	25.48	26.71	52.19
End Abut	20.60	20.99	41.60
			93.79

Top

	Area (SF)	Length (ft)	Volume (CF)	Volume (CY)
Beg Lt.	3.44	46	156.76	5.81
Beg Rt.	3.44	47	162.51	6.02
End Lt.	3.44	30	101.48	3.76
End Rt.	3.44	43	149.47	5.54



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

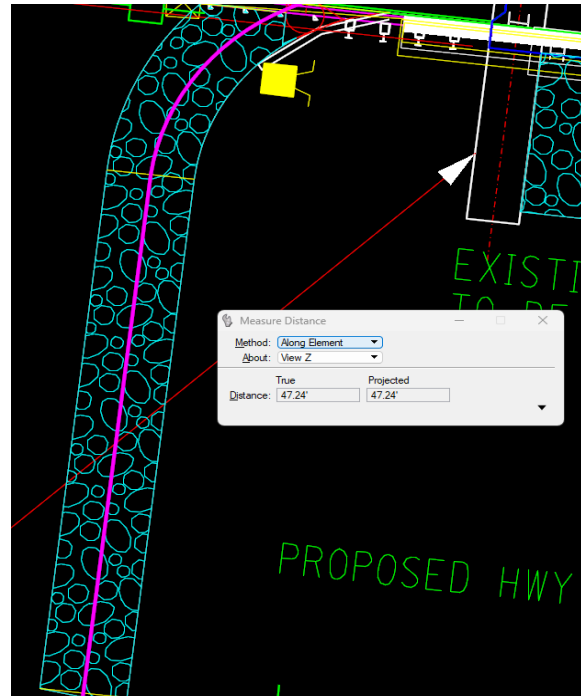
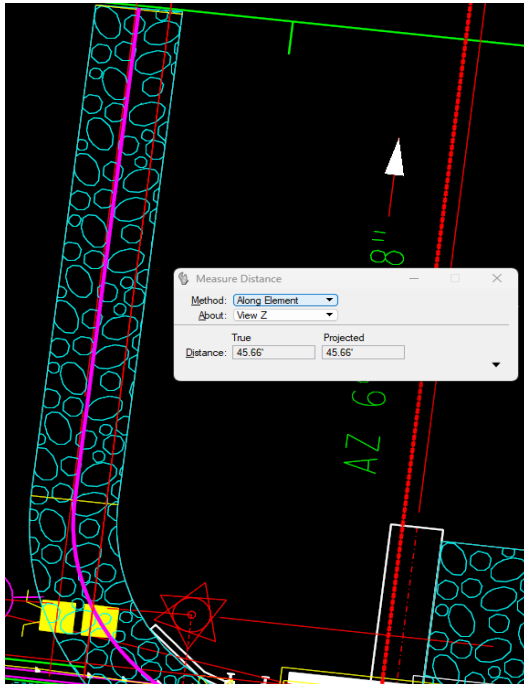
Item No.: 203.02


Unit: CY

Desc.: Unclassified Excavation and Disposal

Beg. Lt. Swale

Beg. Rt. Swale

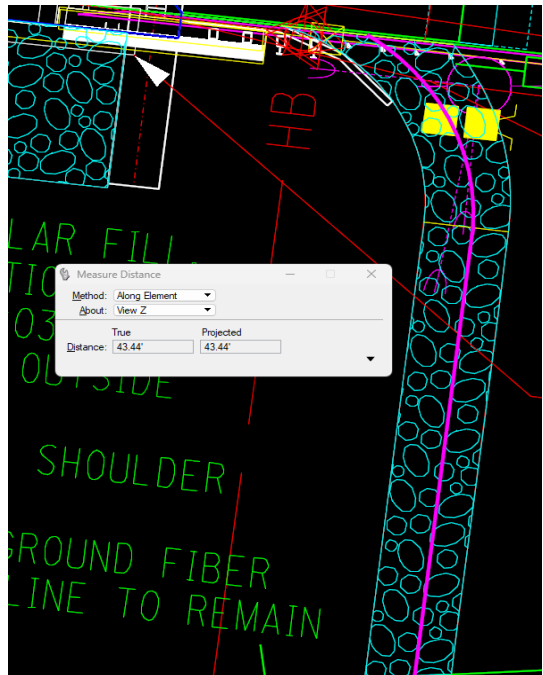



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.:	203.02	Unit:	CY
Desc.:	Unclassified Excavation and Disposal		

End Lt. Swale

End Rt. Swale



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.02

Unit: CY

Desc.: Unclassified Excavation and Disposal

\*Volumes from Item #203.03240017


\*Width is 10 ft for each cut section

Cut Vol. (ft <sup>3</sup> )		
Begin	M 28+05.00	453
	M 28+15.00	212
Left	M 28+25.00	64
	M 28+35.00	21
	M 28+45.00	0
Total		749

Begin	M 28+05.00	392
	M 28+15.00	143
Right	M 28+25.00	32
	M 28+35.00	11
	M 28+45.00	0
Total		577

End	M 29+95.00	0
	M 30+05.00	13
Left	M 30+15.00	58
	M 30+25.00	138
	M 30+35.00	339
Total		548

End	M 29+95.00	0
	M 30+05.00	29
Right	M 30+15.00	85
	M 30+25.00	259
	M 30+35.00	588
Total		961

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.03

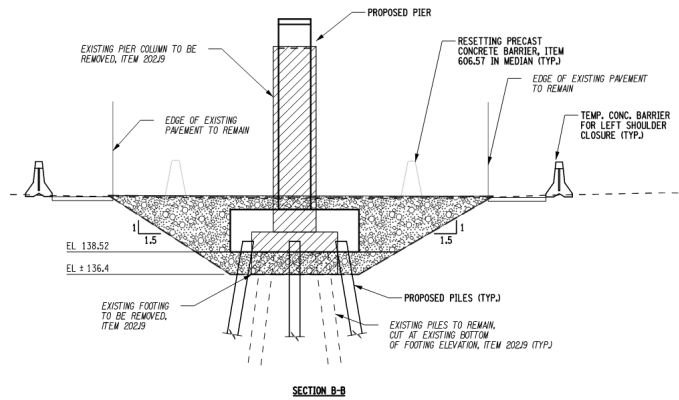
Unit: CY


Desc.: Embankment in Place

CALCULATED QUANTITY: 95.12 CY

ESTIMATED QUANTITY: 100 CY

Pier	Width (ft)	Height (ft)	Length (ft)	Qty	Volume (CF)	Volume (CY)
3ft Outside	3	4.98	41.45	2	1238.53	45.87
Sloped Section	7.47	4.98	41.45	2	1541.96	57.11
Above Footing	12	0.98	20	1	235.20	8.71
Total						111.69
Footing Volume						59
Pier Stem						3.5
Net Volume						49.19



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.03

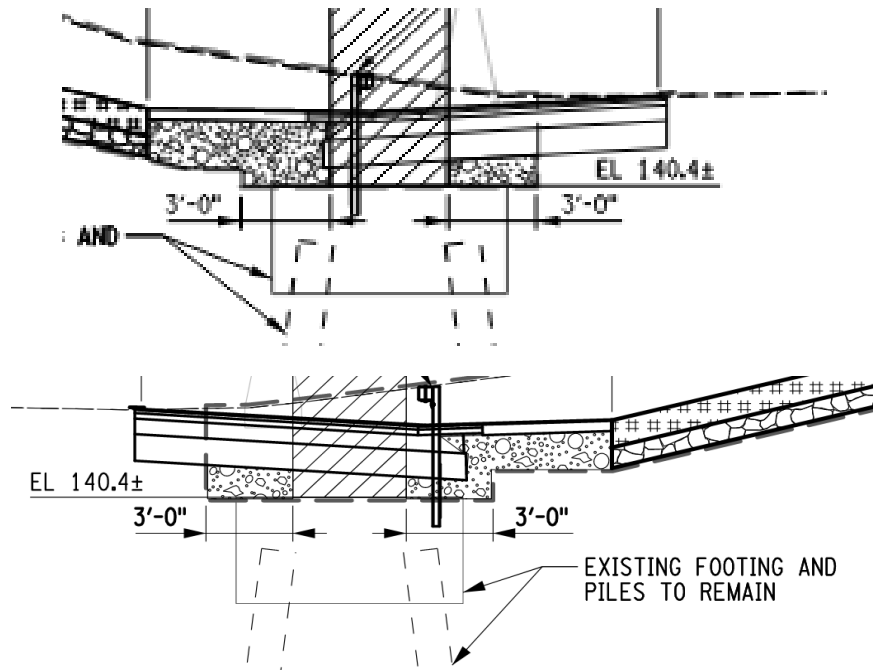
Unit: CY


Desc.: Embankment in Place

Abutment Toe of Slopes

Location	Area (SF)	Length (ft)	Volume (CF)	Volume (CY)
Begin	9.5	75	712.5	26.39
End	8.65	61	527.65	19.54
Total				45.93

\*Areas and lengths measure in MicroStation



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.03240017

Unit: CY

Desc.: Lightweight Embankment In Place (45 PCF) Loose Density

CALCULATED QUANTITY: 558.86 CY


ESTIMATED QUANTITY: 600 CY

Abutments

	Area (SF)	Length (ft)	Volume (CF)	Volume (CY)
Begin	48	35	1680	62.22
End	42.19	35	1476.56	54.69
Total				116.91

Wingwalls

	Area (SF)	Length (ft)	Volume (CF)	Volume (CY)
Begin	23.80	34.5	1642.2	60.82
End	22.69	33	1497.375	55.46
Total				116.28

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 203.03240017

Unit: CY

Desc.: Lightweight Embankment In Place (45 PCF) Loose Density

Embankment

$\gamma_{\text{soil}}$	0.13	kcf
glwf	0.045	kcf

\*Width is 10 ft for each cut section


		Area (ft <sup>2</sup> )	Ave Area (ft <sup>2</sup> )	Vol. (ft <sup>3</sup> )	Weight (kip)	Cut Vol. (ft <sup>3</sup> )	Length (ft)	Depth (ft)	Add. Cut (ft <sup>3</sup> )
Begin Left	M 28+05.00	107	85.5	855	38.5	453	44.75	1.50	55.94
	M 28+15.00	64	40	400	18.0	212	36.03	1.50	45.04
	M 28+25.00	16	12	120	5.4	64	26.88	1.50	33.60
	M 28+35.00	8	4	40	1.8	21	12.85	1.50	16.06
	M 28+45.00	0	0	0	0.0	0	-	-	

Begin Right	M 28+05.00	102	74	740	33.3	392	44.96	1.50	56.20
	M 28+15.00	46	27	270	12.2	143	33.77	1.50	42.21
	M 28+25.00	8	6	60	2.7	32	23.14	1.50	28.93
	M 28+35.00	4	2	20	0.9	11	6.10	1.50	7.63
	M 28+45.00	0	0	0	0.0	0	-	-	

End Left	M 29+95.00	0	0	0	0.0	0	-	-	
	M 30+05.00	5	2.5	25	1.1	13	8.02	1.50	10.03
	M 30+15.00	17	11	110	5.0	58	26.49	1.50	33.11
	M 30+25.00	35	26	260	11.7	138	37.88	1.50	47.35
	M 30+35.00	93	64	640	28.8	339	40.51	1.50	50.64

End Right	M 29+95.00	0	0	0	0.0	0	-	-	
	M 30+05.00	11	5.5	55	2.5	29	17.24	1.50	21.55
	M 30+15.00	21	16	160	7.2	85	33.32	1.50	41.65
	M 30+25.00	77	49	490	22.1	259	40.89	1.50	51.11
	M 30+35.00	145	111	1110	50.0	588	49.63	1.50	62.04

	Vol (ft <sup>3</sup> )	Vol (CY)
New LWF Embankment	5355	198
Total Excavation	3438	127
Total LWF w/ excavation	8793	326

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT 9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB 9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT 9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH 9/18/2025

Item No.: 203.0801

Unit: CY

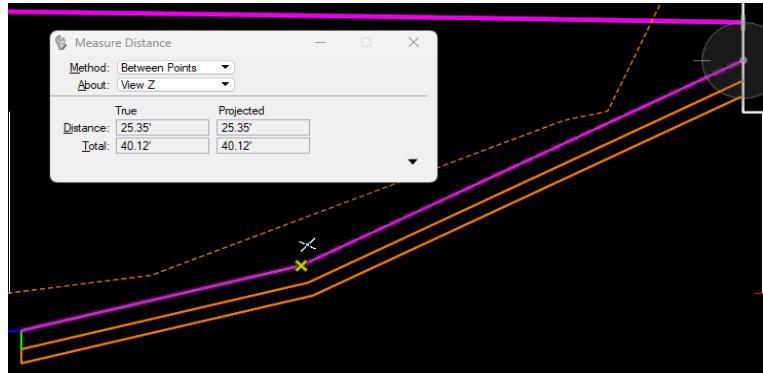
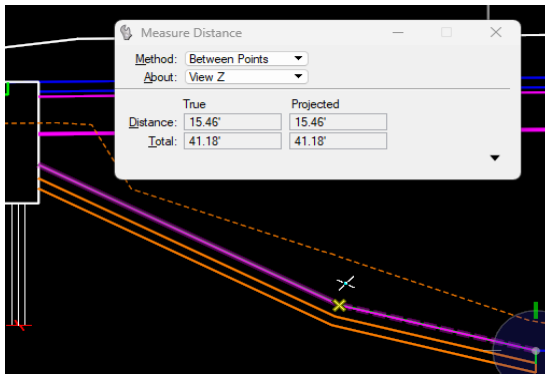
Desc.: Select Granular Fill, Slope Protection - Type A

CALCULATED QUANTITY: 165.00 CY

ESTIMATED QUANTITY: 165 CY

	Slope Protection	
	Begin	End
Width	55	55
Depth	1	1
Length	41	40
Total	83.5	81.5

Length measured in MicroStation





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Item No.: 203.21

Unit: CY

Desc.: Select Structural Fill

CALCULATED QUANTITY: 324.74 CY

ESTIMATED QUANTITY: 325 CY

#### Abutments

Location	Width (ft)	Length (ft)	Depth (ft)	Volume (CY)
Begin	3	35	8.88	34.53
End	3	35	8.15	31.69
				66.23

#### Wingwalls

Location	Width (ft)	Length (ft)	Depth (ft)	Volume (CY)
Begin	3	21.5	7.18	17.16
End	3	19.5	6.77	7.34
				24.50

Heights are the average of the tip and top of wingwall height minus 8"

#### Area Past Wingwalls

Location	Width (ft)	Length (ft)	Depth (ft)	Volume (CY)
Begin	3	6	8.75	11.67
End	3	6	8.66	5.77
				17.44

Heights are measured to the tip of the wingwall minus 8"

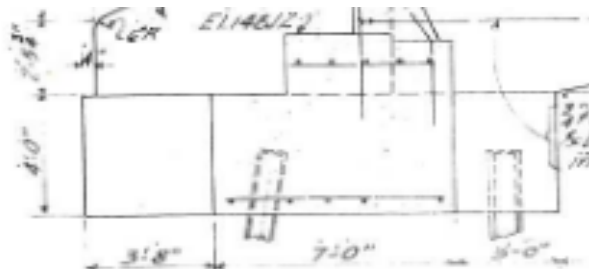
#### Area Below Abutments


Location	Width (ft)	Length (ft)	Depth (ft)	Volume (CY)
Begin (rec)	3.00	56.5	3.83	24.04
Begin (tri)	5.75	56.5	3.83	23.04
End (rec)	3.00	54.5	3.83	23.19
End (tri)	5.75	54.5	3.83	22.23
				92.51

#### Area In front Abutments

Location	Width (ft)	Length (ft)	Depth (ft)	Volume (CY)
Begin	10.00	56.5	4	83.70
End	10.00	54.5	4	40.37
				124.07

Widths are the lengths of the existing abutment footing plus 3' and the 1.5:1 slope behind



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Item No.: 206.01

Unit: CY

Desc.: Structure Excavation

CALCULATED QUANTITY: 1115.77 CY


ESTIMATED QUANTITY: 1120 CY

Begin Abutment  
Contour/Elevation

	Area	Deduct	$\Delta_{\text{area}}$	$\Delta_{\text{elev}}$	Vol. (CF)	Vol. (CY)
	151.5	862	295			
	152.0	958	295			
	153.0	1164	295			
	154.0	1146	295			
	155.0	1125	295			
	156.0	1064	277			
	157.0	790	0			
	158.0	764	0			
	159.0	695	0			
	160.0	712	0			
	161.0	729	0			
			567			
			663	0.5	308	11.4
			869	1.0	766	28.4
			851	1.0	860	31.9
			830	1.0	841	31.1
			787	1.0	809	29.9
			790	1.0	789	29.2
			764	1.0	777	28.8
			695	1.0	730	27.0
			712	1.0	704	26.1
			729	1.0	721	26.7
						270.4

Begin Abutment Slope  
Contour/Elevation

	Area	Deduct	$\Delta_{\text{area}}$	$\Delta_{\text{elev}}$	Vol. (CF)	Vol. (CY)
	144.0	961	0			
	145.0	628	0			
	146.0	576	0			
	147.0	666	0			
	148.0	609	0			
	149.0	555	0			
	150.0	502	0			
	151.0	453	0			
	152.0	415	0			
	153.0	374	0			
	154.0	329	0			
	155.0	281	0			
			961			
			628	1.0	795	29.4
			576	1.0	602	22.3
			666	1.0	621	23.0
			609	1.0	638	23.6
			555.0000	1.0	582	21.6
			502	1.0	529	19.6
			453	1.0	478	17.7
			415	1.0	434	16.1
			374	1.0	395	14.6
			329	1.0	352	13.0
			281	1.0	305	11.3
						212.1

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Item No.: 206.01

Unit: CY

Desc.: Structure Excavation

End Abutment

Contour/Elevation

	Area	Deduct	$\Delta_{\text{area}}$	$\Delta_{\text{elev}}$	Vol. (CF)	Vol. (CY)
151.5	862.0716	295.0622	567.0094			
152.0	945.8701	295.0622	650.8079	0.5	304	11.3
153.0	982.0801	295.0622	687.0179	1.0	669	24.8
154.0	990.7589	295.0622	695.6967	1.0	691	25.6
155.0	676.6269	0	676.6269	1.0	686	25.4
156.0	679.7890	0	679.7890	1.0	678	25.1
157.0	656.4688	0	656.4688	1.0	668	24.7
158.0	631.7947	0	631.7947	1.0	644	23.9
159.0	631.0621	0	631.0621	1.0	631	23.4
160.0	624.7459	0	624.7459	1.0	628	23.3
161.0	0	0	0	1.0	312	11.6
						219.0

End Abutment Slope

Contour/Elevation

	Area	Deduct	$\Delta_{\text{area}}$	$\Delta_{\text{elev}}$	Vol. (CF)	Vol. (CY)
144.0	864	0	864			
145.0	583	0	583	1.0	724	26.8
146.0	402	0	402	1.0	493	18.2
147.0	388	0	388	1.0	395	14.6
148.0	339	0	339	1.0	364	13.5
149.0	309	0	309	1.0	324	12.0
150.0	281	0	281	1.0	295	10.9
151.0	254	0	254	1.0	268	9.9
152.0	228	0	228	1.0	241	8.9
153.0	203	0	203	1.0	216	8.0
154.0	178	0	178	1.0	191	7.1
155.0	137	0	137	1.0	158	5.8
						135.8



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Item No.:	206.01	Unit:	CY
Desc.:	Structure Excavation		

Pier 2

Contour/Elevation

	Area	Deduct	$\Delta_{\text{area}}$	$\Delta_{\text{elev}}$	Vol. (CF)	Vol. (CY)
136.40	456		456.00			
137.0	547.31	128	419.31	0.60	263	9.7
138.0	711.31	128	583.31	1.00	501	18.6
139.0	889.46	128	761.46	1.00	672	24.9
140.0	1081.74	128	953.74	1.00	858	31.8
141.0	1288.15	51.2	1236.95	1.00	1095	40.6
142.0	1508.71		1508.71	1.00	1373	50.8
143.0	1743.40		1743.40	1.00	1626	60.2
						236.6

Pier 1/3

4.5	ft, diameter concrete pier column
3	ft, excavation offset
10.5	ft, diameter of excavation

86.6 ft<sup>2</sup>, area of excavation without column deduction


15.9 ft<sup>2</sup>, area of pier column

70.7 ft<sup>2</sup>, area of excavation with column deduction

140.38	bottom of column, top of footing, bottom of excavation
--------	--

	Top of Exc.*	Depth, ft	Vol. (ft <sup>3</sup> )	Vol. (CY)		
Pier 1 N	144.5	4.12	291	10.8	357	13.213015
Pier 1 S	144.5	4.12	291	10.8	357	13.213015
Pier 3 N	144.25	3.87	274	10.1	335	12.411254
Pier 3 S	144.25	3.87	274	10.1	335	12.411254
				41.8		

\*approx. ave. based on contours

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Item No.: 207.27

Unit: SY

Desc.: Prefabricated Composite Integral Abutment Drain

CALCULATED QUANTITY: 90.49 SY

ESTIMATED QUANTITY: 95 SY


Abutments

Location	Length (ft)	Depth (ft)	Area (SY)
Begin	35	8.88	34.53
End	35	8.15	31.69
			66.23

Wingwalls

Location	Length (ft)	Depth (ft)	Area (SY)
Begin	21.5	5.52	13.19
End	19.5	5.11	11.07
			24.26

Heights are the average of the tip and top of wingwall height minus 1'-8" as per BD-EE2 2021-R0E0

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Item No.: 210.480201

Unit: SF

Desc.: Removal and Disposal of Miscellaneous ACM

CALCULATED QUANTITY: 8550.44 SF

ESTIMATED QUANTITY: 8978 SF

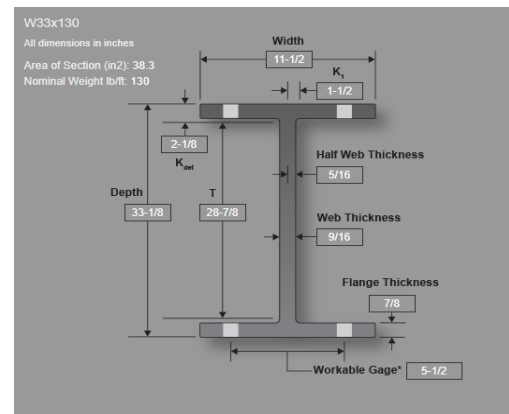
CONTINGENCY: 5%

- From the 1948 record plans the primary girders (FB1, FB2, & FB 3) are W33x130 with bottom cover plates.  
From notes on ST-16 of 48' plans, the top flanges of the 66ft spans are not painted (Spans 2 & 3)
- The pier steel cap beams (FB4 & FB5) are W33x200 with bottom cover plates.
- Diaphragms at C15x33.9 connect to girders with angles with 7" outstanding legs 3/8" thick
- Sidewalk at overhang supported by beams constructed of angles & steel plates, same location as diaphragms
- The fascia of the deck is covered by a steel plate running the entire length on both sides of the bridge.

## 1. Primary Girders

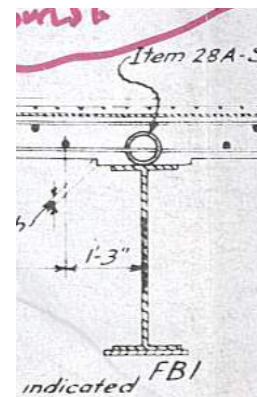
Spans 1 & 4:


33.125	in, depth of girder
1.0	in, additional cover plate thickness (average)
11.5	in, flange width
4	number of flanges painted
114.25	in <sup>2</sup> /in, painted area of cross-section
9.52	ft <sup>2</sup> /ft, painted area of cross-section
5	number of girders
2	number of spans
40.5	ft, length of girder in each span
3855.9	ft <sup>2</sup> , total painted area for girders in spans 1 & 4



Spans 2 & 3:

33.125	in, depth of girder
1.0	in, additional cover plate thickness (average)
11.5	in, flange width
3	number of flanges painted
102.75	in <sup>2</sup> /in, painted area of cross-section
0.92	ft <sup>2</sup> /ft, painted area of cross-section
5	number of girders
2	number of spans
66.25	ft, length of girder in each span
607.8	ft <sup>2</sup> , total painted area for girders in spans 2 & 3



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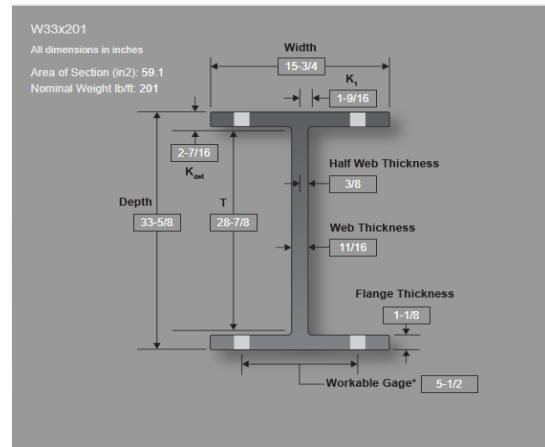
Item No.: 210.480201

Unit: SF

Desc.: Removal and Disposal of Miscellaneous ACM

## 2. Pier Steel Cap Beam

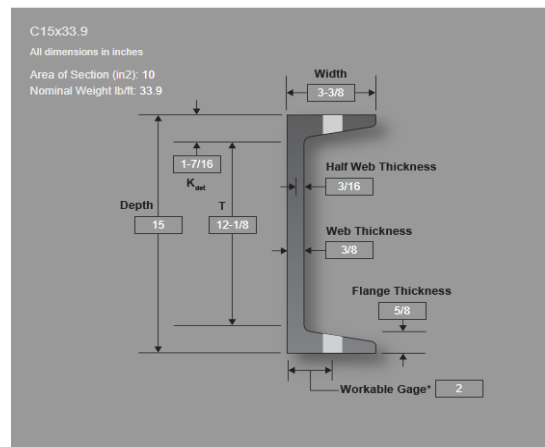
33.125	in, depth of girder
1.5	in, additional cover plate thickness (average)
15.75	in, flange width
4	number of flanges painted
132.25	in <sup>2</sup> /in, painted area of cross-section
11.02	ft <sup>2</sup> /ft, painted area of cross-section
3	number of capbeams
34.83	ft, length of cap beam
1151.7	ft <sup>2</sup> , total painted area cap beams



## 3. Diaphragms & Connection Plates


### Diaphragms

15	in, depth of diaphragm
3.375	in, flange width
4	number of flanges painted
43.5	in <sup>2</sup> /in, painted area of cross-section
3.63	ft <sup>2</sup> /ft, painted area of cross-section
4	number of diaphragms in transverse section
14	number of diaphragms rows longitudinally
7.5	ft, length of diaphragm
1522.5	ft <sup>2</sup> , total painted area for diaphragms



### Connection Plates

25	in, depth of connection plate (approximate with cuts)
7	in, width of outstanding leg
350	in <sup>2</sup> , painted area of connection plate
2.43	ft <sup>2</sup> , painted area of connection plate
6	number of connection plates in transverse section
14	number of connection plate rows longitudinally
204.2	ft <sup>2</sup> , total painted area for connection plates

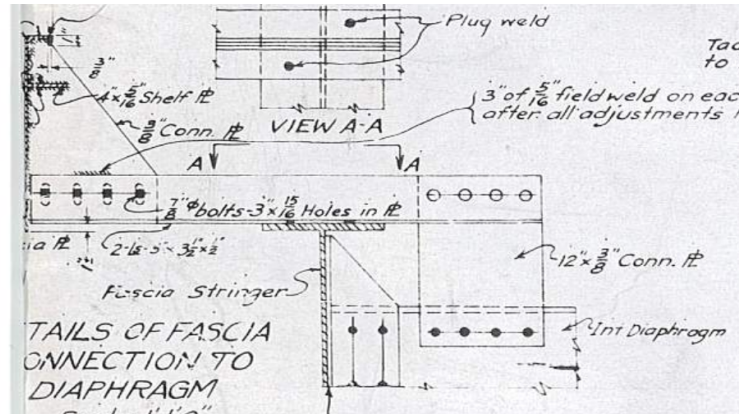
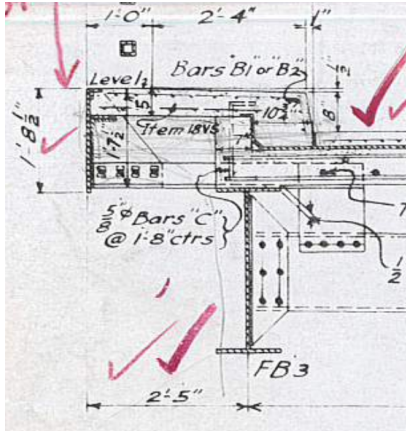
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Unit: SF

Desc.: Removal and Disposal of Miscellaneous ACM

#### 4. Sidewalk Support at Overhang




20.5	in, depth of plate at fascia
12	in, width of plate at fascia
15	in, depth of connection plate attached to diaphragm (approximate)
12	in, width of connection plate attached to diaphragm
606	in <sup>2</sup> , painted area of fascia & connection plate
4.21	ft <sup>2</sup> , painted area of fascia & connection plate

5	in, width of vertical angle leg
3.5	in, width of horizontal angle leg
4	number each of vertical & horizontal angle legs
4.25	ft, length of angles
12.04	ft <sup>2</sup> , painted area of angles

2	number of overhangs in transverse section
14	number of overhangs plate rows longitudinally
455.0	ft <sup>2</sup> , total painted area for overhangs

#### 5. Steel Plate at Fascia

20.5	in, depth of plate at fascia
220.5	ft, length of bridge
2	number of sides
753.4	ft <sup>2</sup> , total painted area for fascia plate

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Item No.: 551.014117

Unit: LF

Desc.: Steel H-Piles (HP 14x117)

CALCULATED QUANTITY: 2773.0 LF


ESTIMATED QUANTITY: 2775 LF

From KC

QTY
1165

	Length (ft)	Qty	Total (ft)
Begin Abut	72	8	576
End Abut	129	8	1032
			1608

	ELEV <sub>boring</sub>	Bot. of Abut.	Difference	Extension	Boring	Total
Begin Abut	142	155.33	13.33	2	57	72.33
End Abut	159	155.33	3.67	2	130	128.33

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Item No.: 551.03950017


Unit: LF

Desc.: Predrilling Holes For Piles

CALCULATED QUANTITY: 320.0 LF

ESTIMATED QUANTITY: 320 LF

	Pile QTY	Predrill (ft)	Total (ft <sup>2</sup> )
Begin	8	20	160
End	8	20	160
			320

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Item No.: 551.12

Unit: EA

Desc.: Splices for Steel H-Piles


CALCULATED QUANTITY: 23.0 EA

ESTIMATED QUANTITY: 23 EA

	Splices
Begin Abut	4
End Abut	4
Pier	15
Total	23

From NYSDOT BM Section 11.1.4.4 Pile Splices

When the estimated length of a CIP pile, micropile, or steel H-pile exceeds 40'-0", the designer's estimate shall allow for at least ½ the total number of piles to be spliced.

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Item No.: 551.13


Unit: LS

Desc.: Furnishing Equipment for Driving Piles

CALCULATED QUANTITY: 1.0 LS

ESTIMATED QUANTITY: 1 LS

QTY
1

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Item No.: 551.14

Unit: EA


Desc.: Dynamic Pile Load Testing

CALCULATED QUANTITY: 6.0 EA

ESTIMATED QUANTITY: 6 EA

QTY
6

Assume two tests for each substructure unit

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Item No.: 555.0011

Unit: CY


Desc.: Footing Concrete, Performance

CALCULATED QUANTITY: 59.00 CY

ESTIMATED QUANTITY: 59 CY

From KC

QTY
59

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Item No.: 555.0021

Unit: CY

Desc.: Concrete for Structures, Performance

CALCULATED QUANTITY: 168.14 CY

ESTIMATED QUANTITY: 169 CY

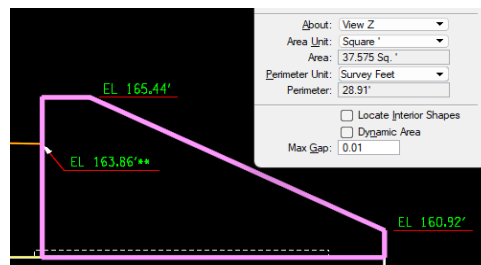
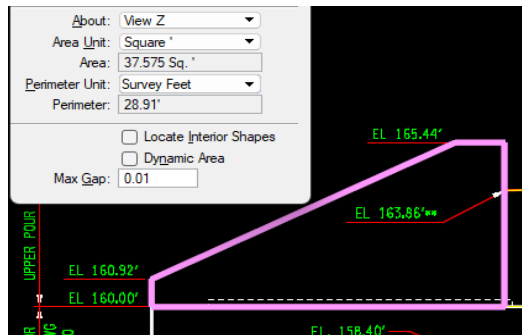
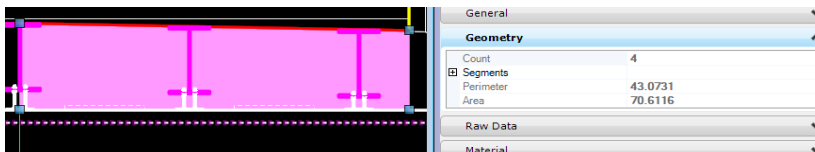
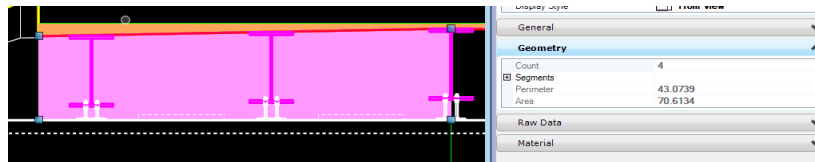
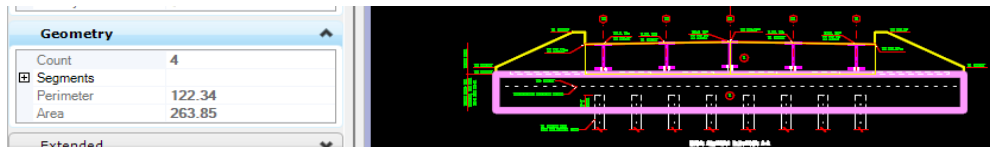
Pier From KC

Total (CY)
67

Areas has taken from MicroStation Feature Abutment File

Begin Abutment

	Area (ft)	Width (ft)	Volume (CF)	Volume (CY)
Pour 1	263.86	3	792	29.32
Pour 2 Left	70.61	3	212	7.85
Pour 2 Right	70.61	3	212	7.85
Left WW	37.58	3	113	4.18
Right WW	37.58	3	113	4.18
<b>Total</b>				<b>53.36</b>





PROJECT:	Assignment No. 2
LOC.:	Town of Saugerties, Ulster County, New York
CLIENT:	NYS Thruway Authority
CLIENT ID:	

JMT ID:	21-03935-002	
Done By:	NJT	9/15/2025
Check By:	TRB	9/15/2025
Correct By:	NJT	9/18/2025
Verify By:	RDH	9/18/2025

SUBJECT: ENGINEER'S ESTIMATE - ITEM QUANTITY

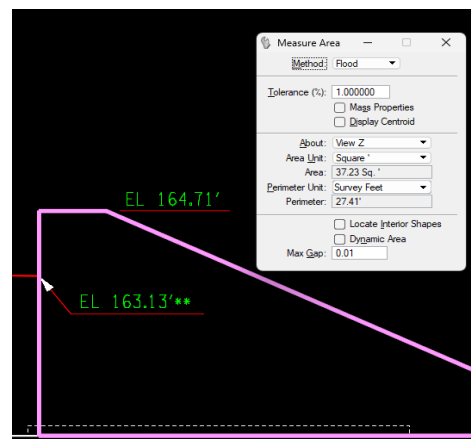
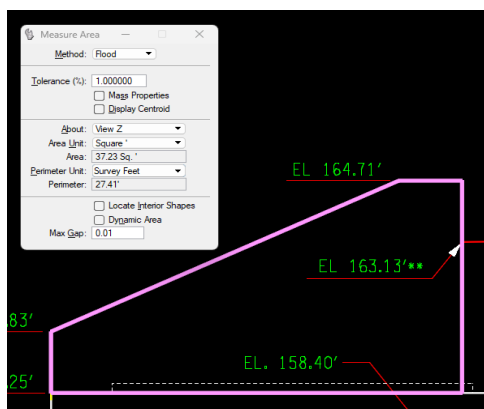
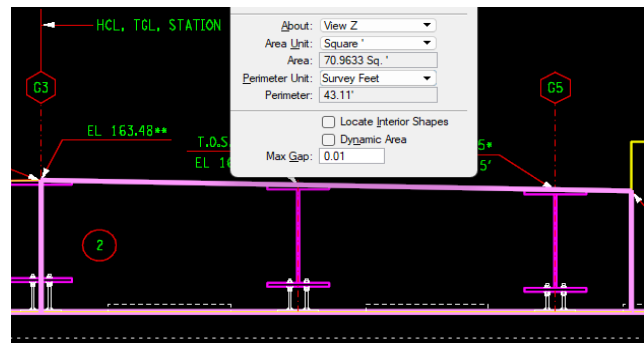
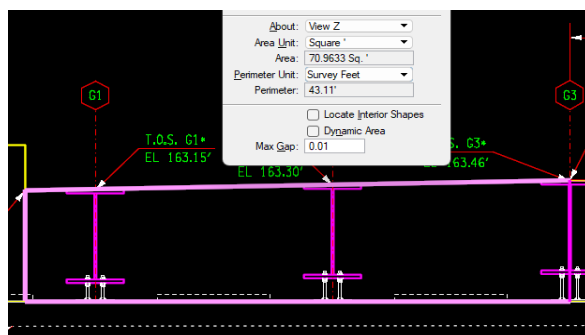
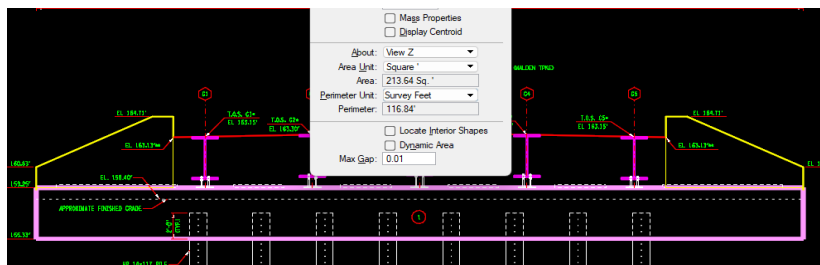
Item No.: 555.0021


Unit: CY

Desc.: Concrete for Structures, Performance

### End Abutment

	Area (ft)	Width (ft)	Volume (CF)	Volume (CY)
Pour 1	213.64	3	641	23.74
Pour 2 Left	70.96	3	213	7.88
Pour 2 Right	70.96	3	213	7.88
Left WW	37.23	3	112	4.14
Right WW	37.23	3	112	4.14
Total				47.78



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 555.9901


Unit: QU

Desc.: Performance Concrete Quality Adjustment - Footing Concrete

CALCULATED QUANTITY: 1.00 QU

ESTIMATED QUANTITY: 1 QU

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 555.9902


Unit: QU

Desc.: Performance Concrete Quality Adjustment - Concrete for Structures

CALCULATED QUANTITY: 1.00 QU

ESTIMATED QUANTITY: 1 QU

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 556.0203

Unit: LB


Desc.: Galvanized Bar Reinforcement For Structures

CALCULATED QUANTITY: 35588.00 LB

ESTIMATED QUANTITY: 35600 LB

From KC

	QTY
Begin	9254
End	9071
Pier	17263
Total	35588

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 556.03


Unit: EA

Desc.: Stud Shear Connectors for Bridges

CALCULATED QUANTITY: 3435 EA

ESTIMATED QUANTITY: 3435 EA

No. Per Location	Spacing (in)	Girder Length (ft)	No. Girders	Total
3	12	227.5	5	3435
Total				3435

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT 9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB 9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT 9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH 9/18/2025

Item No.: 557.1019

Unit: SY

Desc.: Structural Approach Slab with Integral Wearing Surface - Type 9 Friction

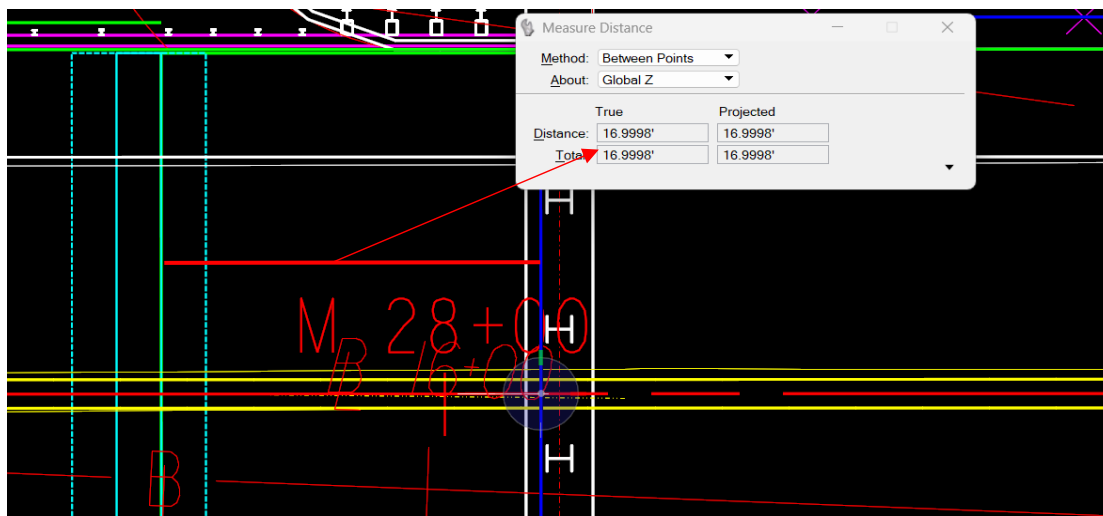
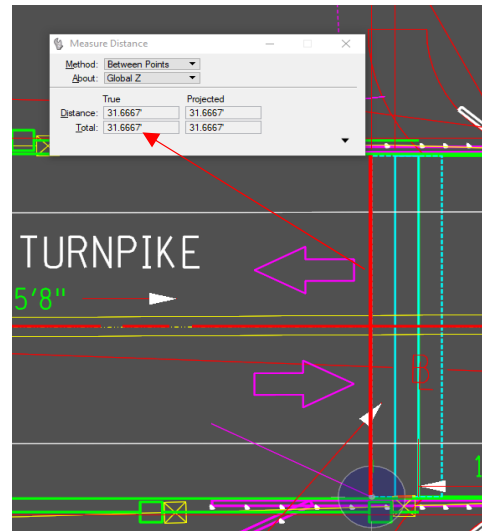
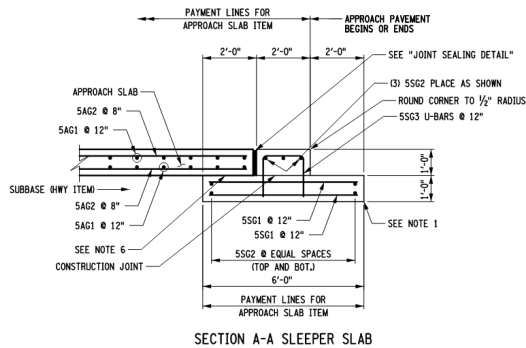
CALCULATED QUANTITY: 177.78 SY


ESTIMATED QUANTITY: 178 SY

Lengths are measured in MicroStation and taken from BD Sheets

	Length	Width	Area (SF)	Area (SY)
Begin Approach Slab	17.00	32.00	544.00	60.44
Begin Bottom Sleeper	6.00	32.00	192.00	21.33
Begin Top Sleeper	2.00	32.00	64.00	7.11
End Approach Slab	17.00	32.00	544.00	60.44
End Bottom Sleeper	6.00	32.00	192.00	21.33
End Top Sleeper	2.00	32.00	64.00	7.11

Total Area 177.78



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 557.1119

Unit: SY

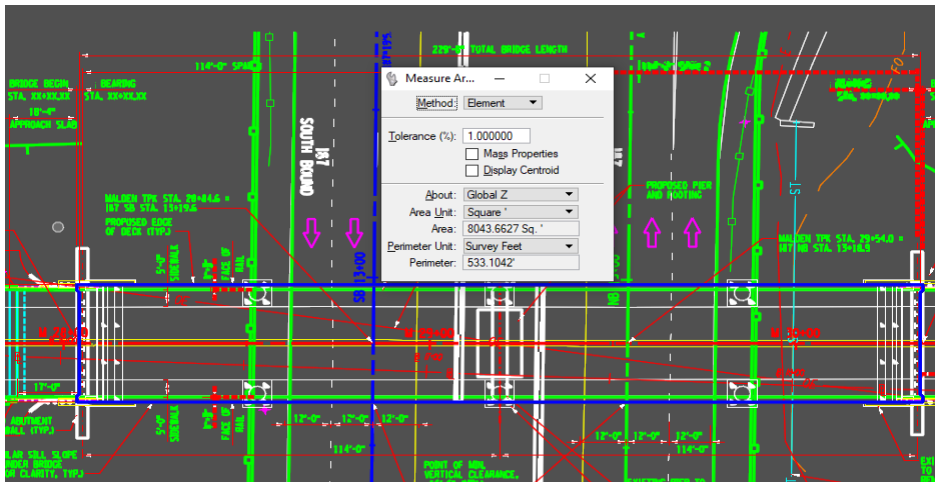
Desc.: Superstructure Slab with Integral Wearing Surface Bottom Formwork Required - Type 9 Friction


CALCULATED QUANTITY: 893.74 SY

ESTIMATED QUANTITY: 894 SY

Area Measured in MicroStation

	Area (SF)	Area (SY)
Deck Area	8043.70	893.74



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 557.9901


Unit: QU

Desc.: Performance Concrete Quality Adjustment - Superstructure and Approach Slab

CALCULATED QUANTITY: 1.00 QU

ESTIMATED QUANTITY: 1 QU

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 558.02

Unit: SY

Desc.: Longitudinal Sawcut Grooving of Structural Slab Surface

CALCULATED QUANTITY: 938.67 SY

ESTIMATED QUANTITY: 939 SY


Areas are taken from the Item Numbers 557.1019 and ST-33

Deck

	Width (ft)	Length (ft)	Area (SF)	Area (SY)
Deck	32.00	230.00	7360	817.78

Approaches

	Length	Width	Area (SF)	Area (SY)
Begin Approach Slab	17.00	32.00	544.00	60.44
End Approach Slab	17.00	32.00	544.00	60.44
Total Area			120.89	

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 559.01

Unit: SF

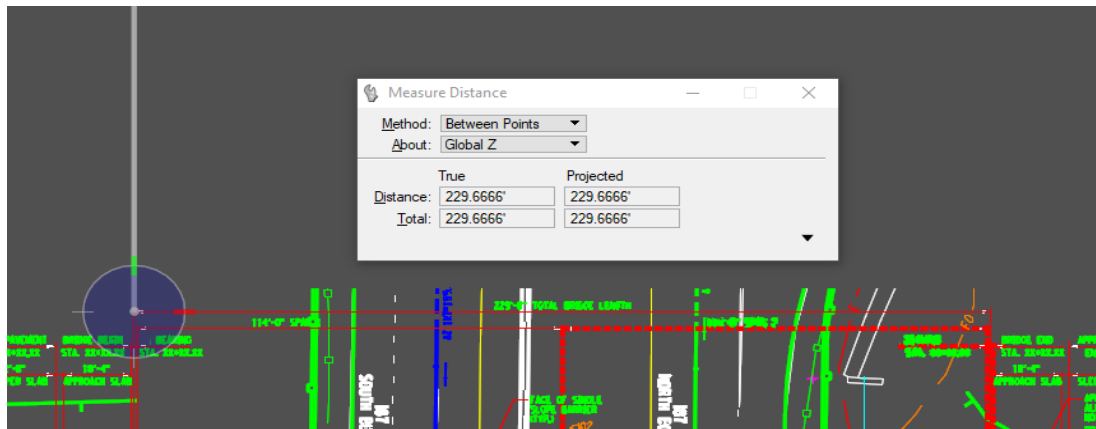
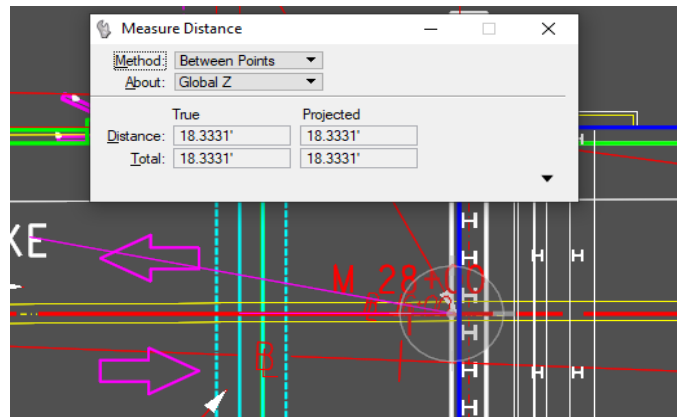
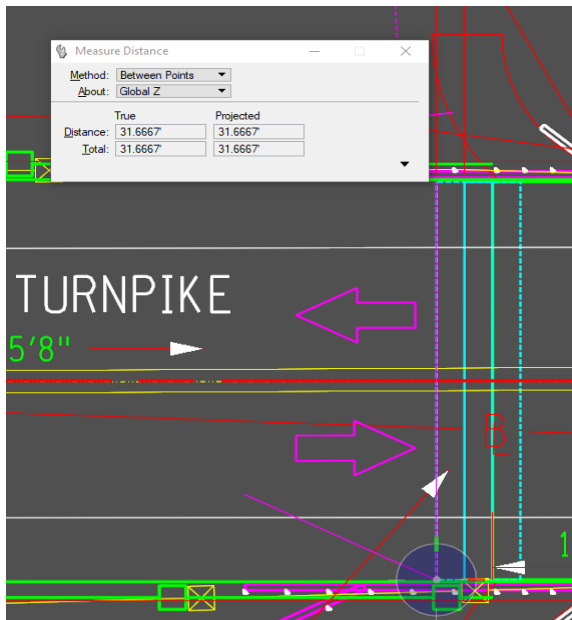
Desc.: Protective Sealing of Structural Concrete on New Bridge Decks and Bridge Deck Overlays


CALCULATED QUANTITY: 8576.00 SF

ESTIMATED QUANTITY: 8576 SF

Measures are taken from MicroStation

	Width (ft)	Length (ft)	Area (SF)
Deck	32.00	230.00	7360.00
Beg Approach	32.00	17.00	544.00
Beg Top Sleeper	32.00	2.00	64.00
End Approach	32.00	17.00	544.00
End Top Sleeper	32.00	2.00	64.00
Total			8576.00



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB 9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT 9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH 9/18/2025

Item No.: 559.02

Unit: SF

Desc.: Protective Sealing of New Structural Concrete

CALCULATED QUANTITY: 7280.59 SF

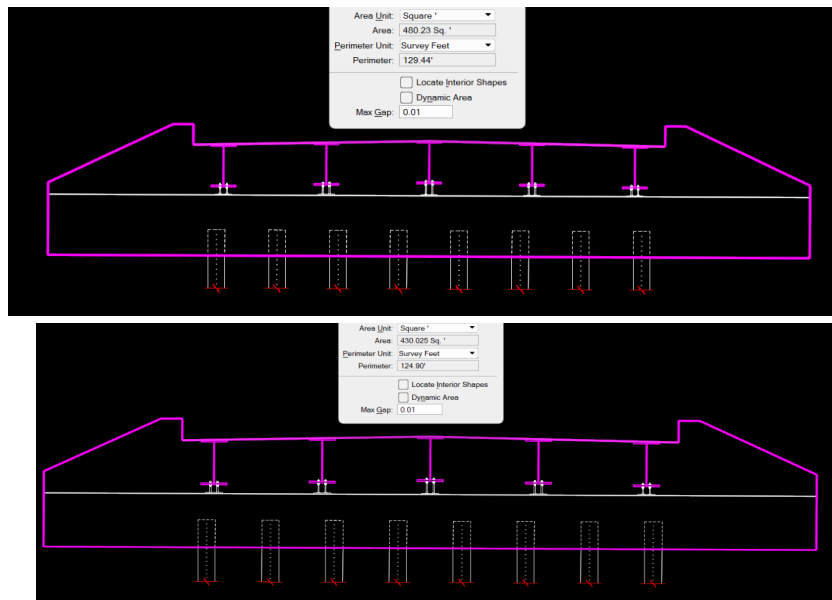
ESTIMATED QUANTITY: 7285 SF

From KC

Total (SF)
1440

Area measured in MicroStation by using A72190\_fea\_abt.dgn & KC PS&E  
Some details are taken from BD-ID\_SET\_11-23 and BD-EE\_SET\_USC\_03-22


	Area (SF)
Beg Abutmet	480.23
End Abutment	430.03
<b>Total</b>	<b>910.26</b>



Top of Wingwalls

	Area (SF)
Beg Abutmet	35.40
End Abutment	31.86
<b>Total</b>	<b>67.26</b>

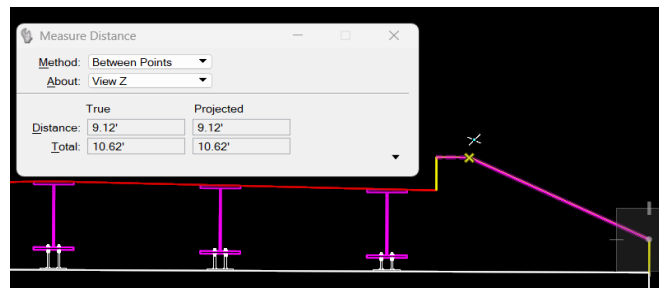
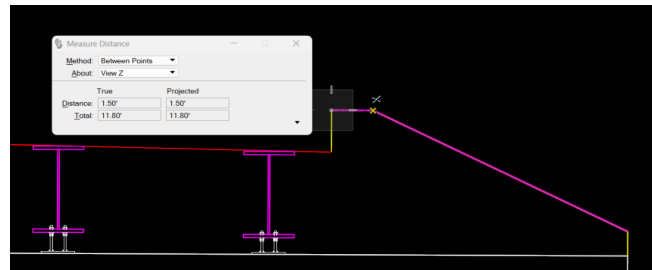
Areas calculated by length of wingwall top times 3'

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 559.02

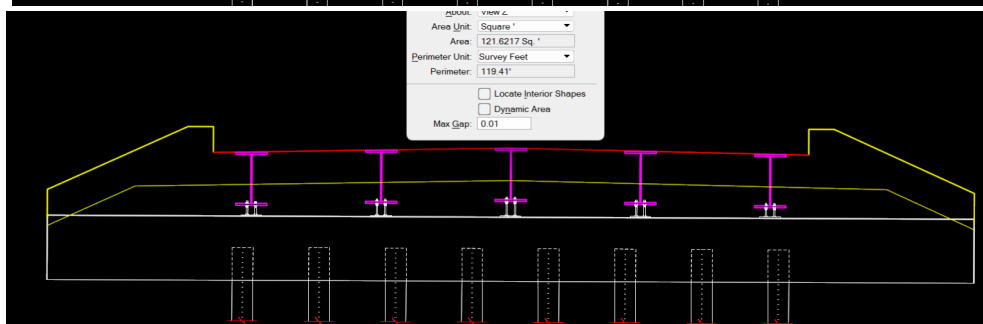
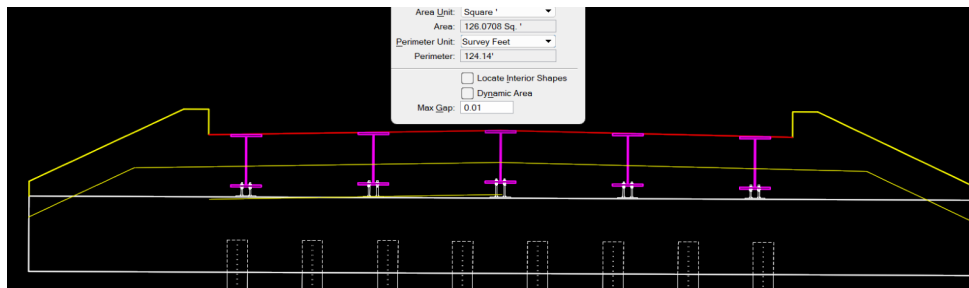
Unit: SF


Desc.: Protective Sealing of New Structural Concrete



Top 2' of Back Face

	Area (SF)
Beg Abutmet	126.07
End Abutment	121.62
<b>Total</b>	<b>247.69</b>



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

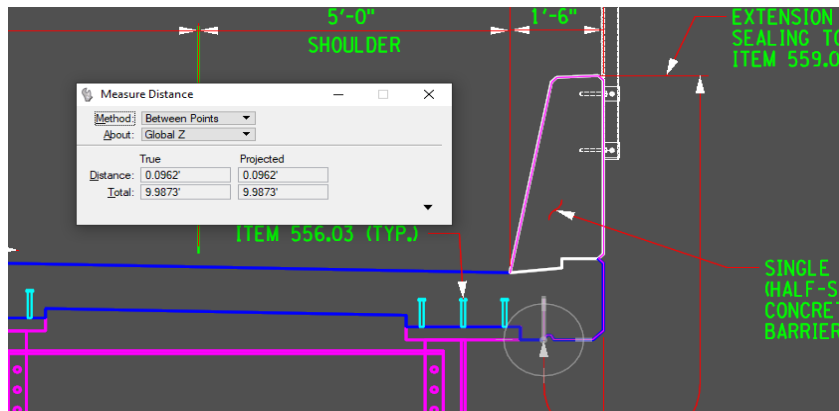
Item No.: 559.02


Unit: SF

Desc.: Protective Sealing of New Structural Concrete

Barrier

Length (ft)	Width (ft)	Qty	Area (SF)
231	9.99	2	4615.38



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 564.0501


Unit: LS

Desc.: Structural Steel, Type 1

CALCULATED QUANTITY: 1 LS

ESTIMATED QUANTITY: 1 LS

LS
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 565.2035


Unit: EA

Desc.: Type E.B. Expansion Bearings (Over 225 Kips)

CALCULATED QUANTITY: 5.0 EA

ESTIMATED QUANTITY: 5 EA

QTY
5

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 567.60

Unit: LF


Desc.: Armorless Bridge Joint

CALCULATED QUANTITY: 64.00 LF

ESTIMATED QUANTITY: 64 LF

Lengths are measured in MicroStation

	Transverse (FT)	Quantity	Total (FT)
Joint	32.00	2	64.00

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 567.63


Unit: LF

Desc.: Bridge Joint Seal

CALCULATED QUANTITY: 64.00 LF

ESTIMATED QUANTITY: 64 LF

Deck Width (ft)	Qty.	Total (ft)
32	2	64

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	<b>Done By:</b>	NJT 9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	<b>Check By:</b>	TRB 9/15/2025
	<b>CLIENT ID:</b>		<b>Correct By:</b>	NJT 9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			<b>Verify By:</b>	RDH 9/18/2025

Item No.: 568.70

Unit: LF

Desc.: Transition Bridge Railing

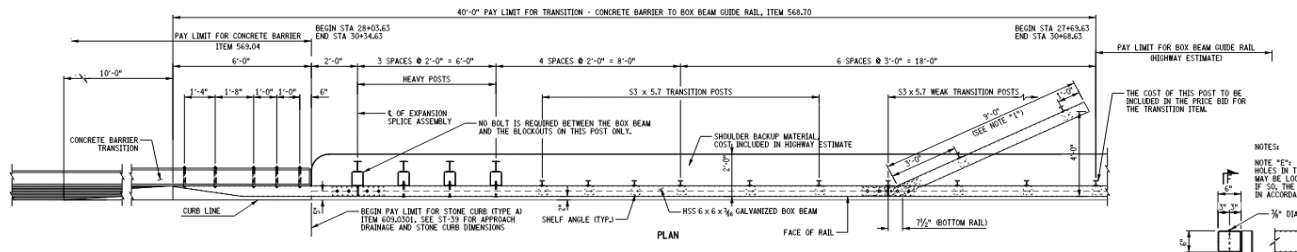
CALCULATED QUANTITY: 160.00 LF


ESTIMATED QUANTITY: 160 LF

Transition rail length per BD drawing BD-RS5 2022-R0E0

Locations	Length (ft)
1	40
2	40
3	40
4	40

Total 160



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 569.04

Unit: LF

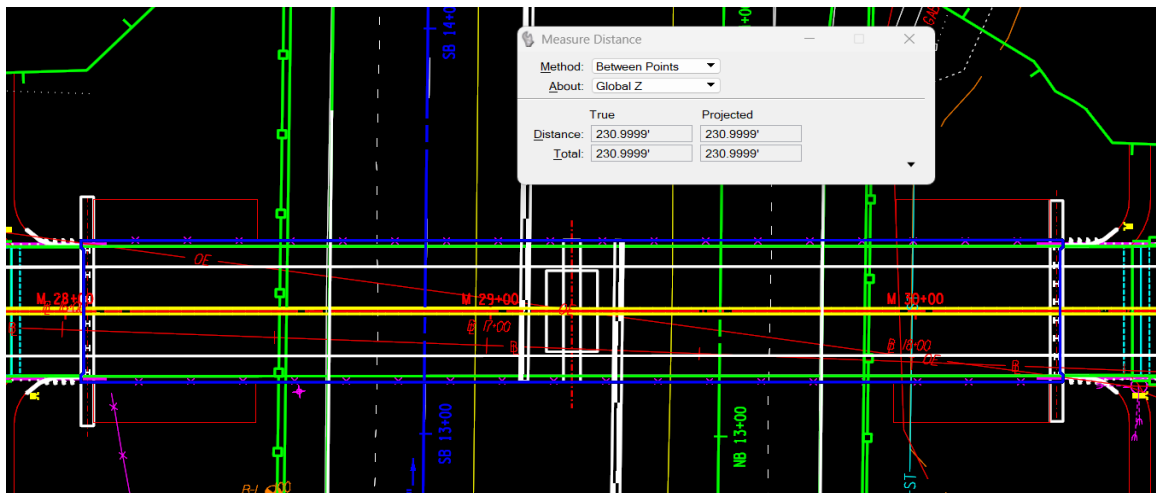
Desc.: Single Slope (Half Section) Concrete Bridge Barrier


CALCULATED QUANTITY: 462.00 LF

ESTIMATED QUANTITY: 462 LF

Lengths are measured in MicroStation

	Length (ft)
Right	231.00
Left	231.00
Total	462.00



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 569.99


Unit: QU

Desc.: Performance Concrete Quality Adjustment - Cast In Place Concrete Barrier

CALCULATED QUANTITY: 1.00 QU

ESTIMATED QUANTITY: 1 QU

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 570.01


Unit: LS

Desc.: Lead Exposure Control Plan

CALCULATED QUANTITY: 1.00 LS

ESTIMATED QUANTITY: 1 LS

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 570.02


Unit: DC

Desc.: Medical Testing

CALCULATED QUANTITY: 6500.00 DC

ESTIMATED QUANTITY: 6500 DC

QTY
6500

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 570.03


Unit: DC

Desc.: Personal Exposure Monitoring Sample Analysis

CALCULATED QUANTITY: 3000.00 DC

ESTIMATED QUANTITY: 3000 DC

QTY
3000

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 570.04


Unit: CW

Desc.: Decontamination Facilities

CALCULATED QUANTITY: 4.00 CW

ESTIMATED QUANTITY: 4 CW

QTY
4

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 571.03

Unit: LB

Desc.: Disposal of Hazardous Paint Waste Containing Lead

CALCULATED QUANTITY: 1800.00 LB


ESTIMATED QUANTITY: 1800 LB

3
600
1800

number of 55 gallon drums for waste

lbs per 55 gallon drum

total lbs

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 572.0020125


Unit: LS

Desc.: Metalizing

CALCULATED QUANTITY: 1.00 LS

ESTIMATED QUANTITY: 1 LS

QTY
1

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
	<b>LOC.:</b>	Town of Saugerties, Ulster County, New York	Done By:	NJT	9/15/2025
	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 607.06120025

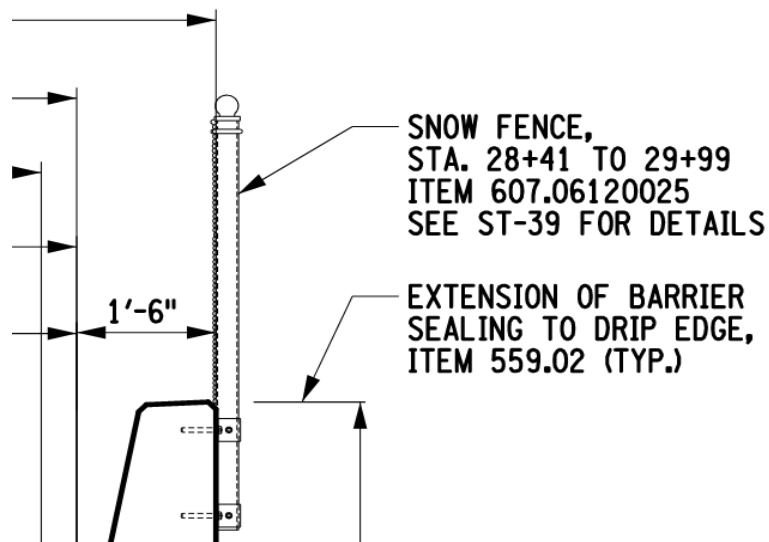
Unit: LF


Desc.: Protective Screening (Snow Fence)

CALCULATED QUANTITY: 316.00 LF

ESTIMATED QUANTITY: 316 LF

	Length (ft)
Right	158
Left	158
Total	316



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB	9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 609.0301

Unit: LF

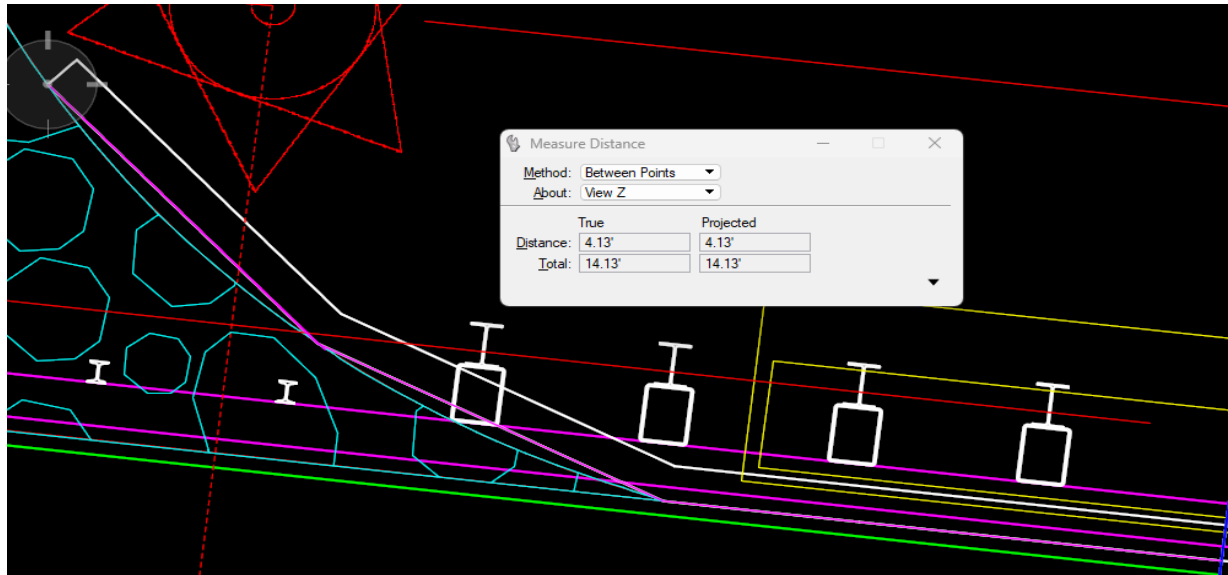
Desc.: Stone Curb - Bridge (Type A)


CALCULATED QUANTITY: 56.52 LF

ESTIMATED QUANTITY: 57 LF

Lengths (ft)	
Begin Left	14.13
Begin Right	14.13
End Left	14.13
End Right	14.13

57



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 620.03

Unit: CY

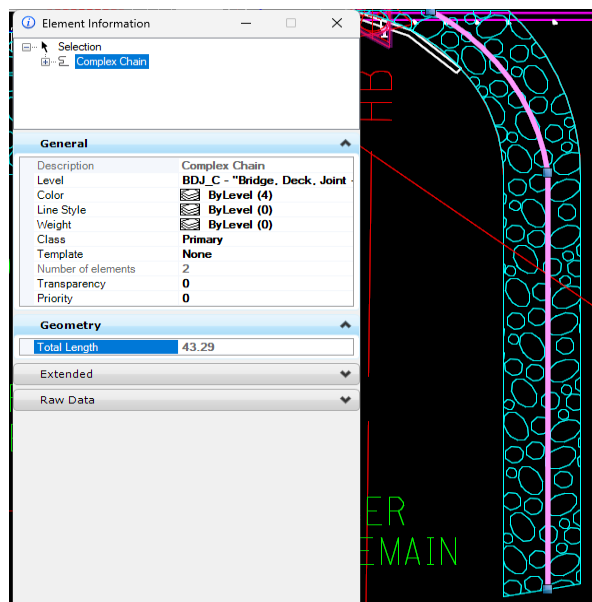
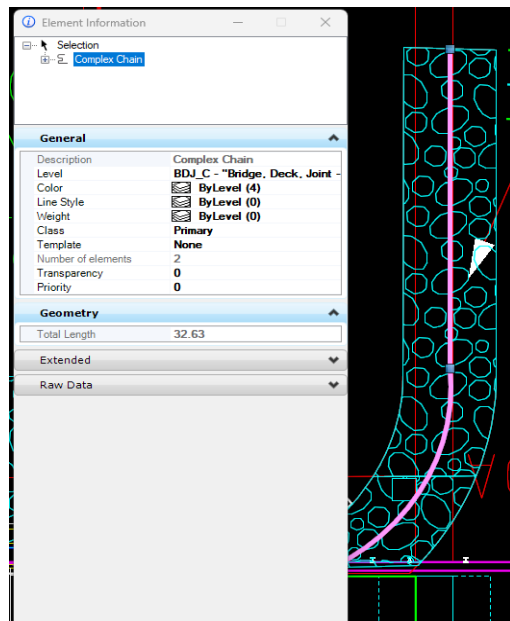
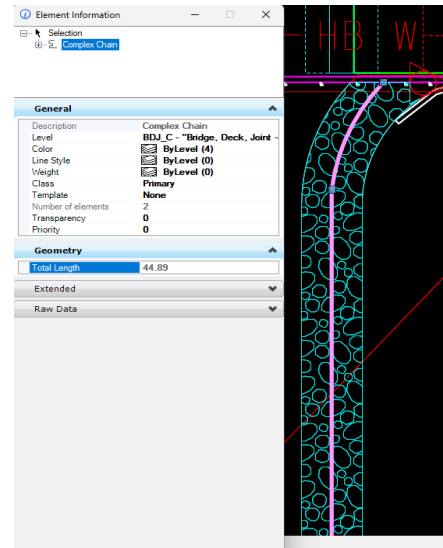
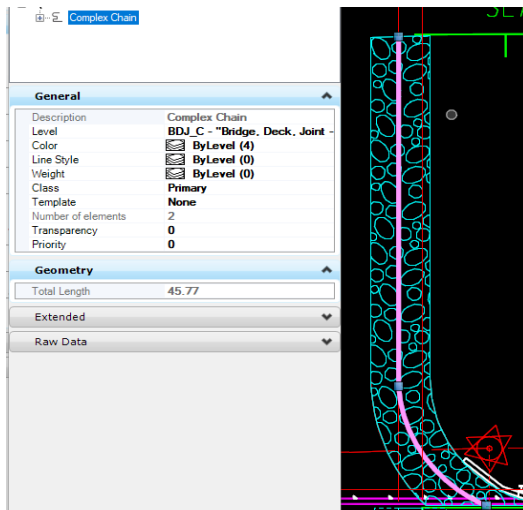
Desc.: Stone Fill (Light)


CALCULATED QUANTITY: 46.09 CY

ESTIMATED QUANTITY: 47 CY

Location	Area (sf)	Length (ft)	Volume (cf)	Volume (cy)
Begin Left	7.32	46	336.72	12.47
Begin Right	7.32	48	351.36	13.01
End Left	7.32	33	241.56	8.95
End Right	7.32	43	314.76	11.66

Note that Area & Length is measured in Microstation

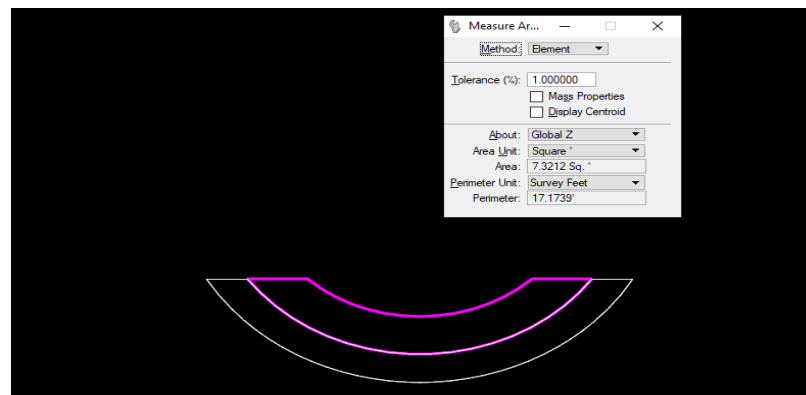
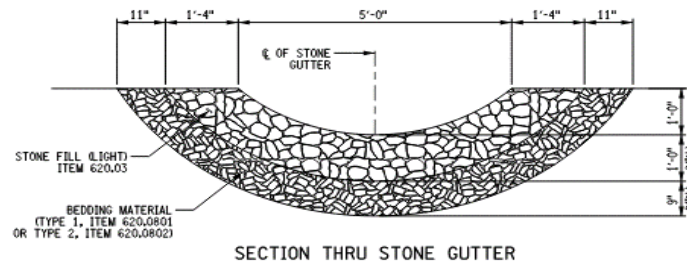



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002
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	<b>CLIENT:</b>	NYS Thruway Authority	Check By:	TRB 9/15/2025
	<b>CLIENT ID:</b>		Correct By:	NJT 9/18/2025
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Item No.: 620.03

Unit: CY

Desc.: Stone Fill (Light)



	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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	<b>CLIENT ID:</b>		Correct By:	NJT	9/18/2025
<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 620.0802

Unit: CY

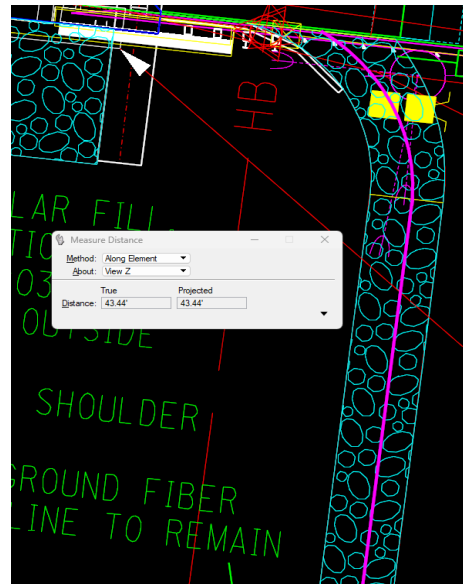
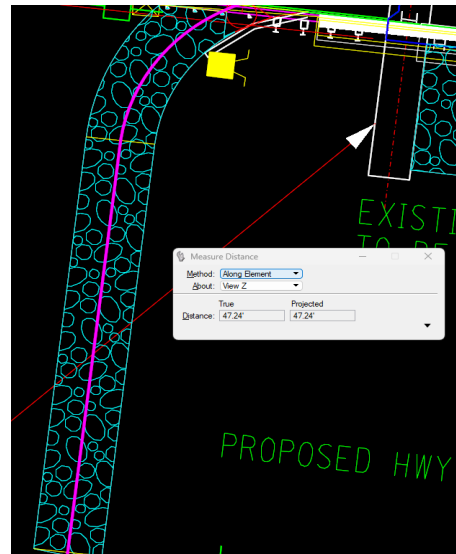
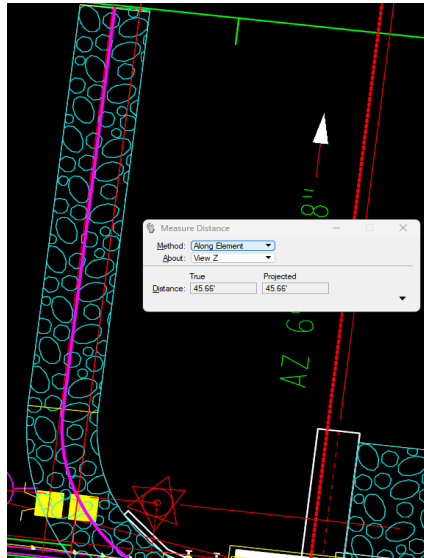
Desc.: Bedding Material, Type 2


CALCULATED QUANTITY: 171.45 CY

ESTIMATED QUANTITY: 175 CY

Location	Area (sf)	Length (ft)	Volume (cf)	Volume (cy)
Begin Left	7.77	46	354.08	13.11
Begin Right	7.77	47	367.05	13.59
End Left	7.77	30	229.22	8.49
End Right	7.77	43	337.61	12.50

Note that Area & Length is measured in Mircostation

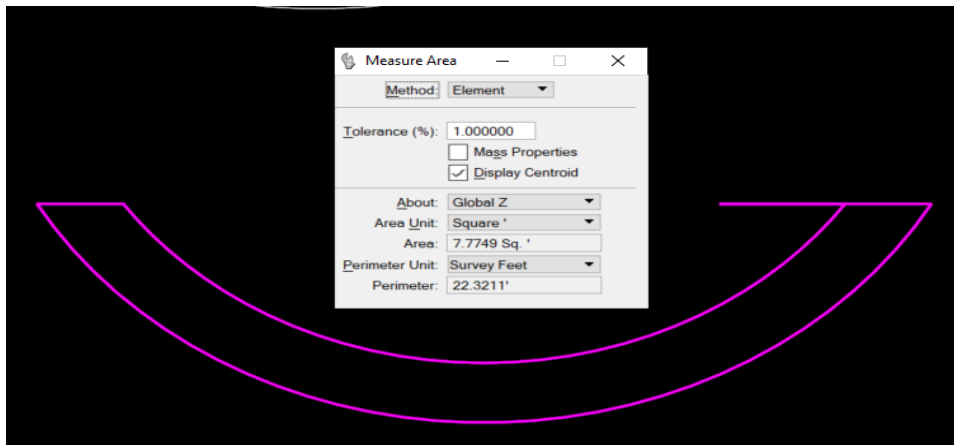
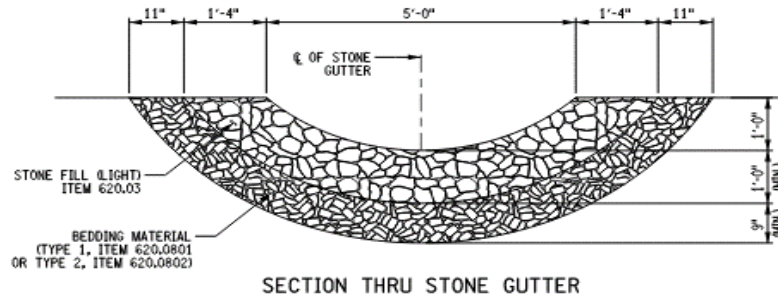


	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025


Item No.: 620.0802

Unit: CY

Desc.: Bedding Material, Type 2



Slope Protection			
	Begin	End	
Width	55	55	ft
Depth	0.75	0.75	ft
Length	41	40	ft
Total	62.6	61.1	CY

	<b>PROJECT:</b>	Assignment No. 2	<b>JMT ID:</b>	21-03935-002	
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<b>SUBJECT:</b> ENGINEER'S ESTIMATE - ITEM QUANTITY			Verify By:	RDH	9/18/2025

Item No.: 645.61000125

Unit: EA

Desc.: Install Overhead Sign Panels (Authority Supplied)

CALCULATED QUANTITY: 2 EA

ESTIMATED QUANTITY: 2 EA

QTY
2