

BURGESS & NIPLE, INC. - COMPUTATION SHEETJOB NO. 61865
SUBJECT MSE Wall QuantitiesJOB NAME Cemetery Road S.U.P.SHEET 1 OF 6
PREPARED BY BWC DATE 12/11/2025
CHECKED BY SCA DATE 1/21/2026
CHECKED BY JFM DATE 6/30/2026**203 35120 GRANULAR MATERIAL, TYPE C***12" or 24" of granular material is placed in the same location as the foundation preparation*

WALL 1	WALL 2	TOTAL	UNIT
90	65	155	CY

Wall #1 Calcs

North Half Wall #1
Section A Length = 23.63 ft
Section B Length = 47.50 ft
Section A Thickness = 2.00 ft
Section B Thickness = 1.00 ft
Distance Between f/f Wall = 21.583 ft
Add'l Excavation Width = 1.77 ft
Half Width = 12.562 ft
Volume Subtotal = 1190.457 cf

South Half Wall #1
Section A Length = 25.05 ft
Section B Length = 47.50 ft
Section A Thickness = 2.00 ft
Section B Thickness = 1.00 ft
Distance Between f/f Wall = 21.583 ft
Add'l Excavation Width = 1.77 ft
Half Width = 12.562 ft
Volume Subtotal = 1226.048 cf

Wall #1 Total = **90** CY**Wall #2 Calcs**

North Half Wall #2
Section A Length = 25.05 ft
Section B Length = 45.00 ft
Section A Thickness = 1.00 ft
Section B Thickness = 1.00 ft
Distance Between f/f Wall = 21.583 ft
Add'l Excavation Width = 1.77 ft
Half Width = 12.562 ft
Volume Subtotal = 879.959 cf

South Half Wall #2
Section A Length = 23.63 ft
Section B Length = 45.00 ft
Section A Thickness = 1.00 ft
Section B Thickness = 1.00 ft
Distance Between f/f Wall = 21.583 ft
Add'l Excavation Width = 1.77 ft
Half Width = 12.562 ft
Volume Subtotal = 862.164 cf

Wall #2 Total = **65** CY**SPECIAL 203E65000 SPECIAL - SETTLEMENT PLATFORM**

WALL 1	WALL 2	TOTAL	UNIT
2	2	4	LS

503 11101 COFFERDAMS AND EXCAVATION BRACING, AS PER PLANTotal = **LS** LS

WALL 1	WALL 2	TOTAL	UNIT
LS	LS	LS	LS

BURGESS & NIPLE, INC. - COMPUTATION SHEET

JOB NO. <u>61865</u>	JOB NAME <u>Cemetery Road S.U.P.</u>	SHEET <u>2</u>	OF <u>6</u>
SUBJECT <u>MSE Wall Quantities</u>		PREPARED BY <u>BWC</u>	DATE <u>12/11/2025</u>
		CHECKED BY <u>SCA</u>	DATE <u>1/21/2026</u>
		CHECKED BY <u>JFM</u>	DATE <u>6/30/2026</u>

512 10001 SEALING OF CONCRETE SURFACES, AS PER PLAN

WALL 1	WALL 2	TOTAL	UNIT
230	216	446	SY

Wall #1 Calcs

East Face of Wall (I-270 side)

Wall Length = 21.583 ft

Top of Wall EL = 884.41

Avg Bottom of Ground EL = 869.625

Area Subtotal = 319.11 sf

Height Behind Coping = 0.5 ft

Area Subtotal = 10.79165 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 17.986 sf

North Face of Wall (WP003)

Wall Length = 69.36 ft

Proposed Slope = 3.01

Section 1 Length = 62.36 ft

Avg Top of Wall EL = 893.57

Avg Top of Prop Ground EL = 882.43

Area Subtotal = 694.72 sf

Section 2 Length = 7.00 ft

Top of Wall @ Footing EL = 884.41

Avg Top of Prop Ground EL = 870.91

Area Subtotal = 94.49 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 57.80 sf

South Face of Wall (WP001)

Wall Length = 70.78 ft

Proposed Slope = 3.07

Section 1 Length = 63.49 ft

Avg Top of Wall EL = 893.38

Avg Top of Prop Ground EL = 882.23

Area Subtotal = 707.98 sf

Section 2 Length = 7.29 ft

Top of Wall @ Footing EL = 884.41

Avg Top of Prop Ground EL = 870.69

Area Subtotal = 100.05 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 58.98 sf

Wall #1 Total = 230 SY

Wall #2 Calcs

West Face of Wall (I-270 side)

Wall Length = 21.583 ft

Top of Wall EL = 883.88

Avg Bottom of Ground EL = 869.75

Area Subtotal = 304.97 sf

Width Behind Coping = 0.5 ft

Area Subtotal = 10.79165 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 17.986 sf

North Face of Wall (WP004)

Wall Length = 68.28 ft

Proposed Slope = 3.10

Section 1 Length = 60.85 ft

Avg Top of Wall EL = 892.95

Avg Top of Prop Ground EL = 882.21

Area Subtotal = 653.91 sf

Section 2 Length = 7.29 ft

Top of Wall @ Footing EL = 883.88

Avg Top of Prop Ground EL = 871.18

Area Subtotal = 92.62 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 56.90 sf

South Face of Wall (WP006)

Wall Length = 66.86 ft

Proposed Slope = 2.99

Section 1 Length = 59.86 ft

Avg Top of Wall EL = 892.74

Avg Top of Prop Ground EL = 881.85

Area Subtotal = 651.70 sf

Section 2 Length = 7.00 ft

Top of Wall @ Footing EL = 883.88

Avg Top of Prop Ground EL = 870.67

Area Subtotal = 92.47 sf

Top of Coping Width = 0.833 ft

Area Subtotal = 55.72 sf

Wall #2 Total = 216 SY

512 10101 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

Quantity is the same as above

WALL 1	WALL 2	TOTAL	UNIT
230	216	446	SY

516 13900 2" PREFORMED EXPANSION JOINT FILLER

See Scratch 4 on elevation views

WALL 1	WALL 2	TOTAL	UNIT
29	29	58	SF

Wall #1 Calcs

North Wall Area (WP003) = 15.917 sf

South Wall Area (WP001) = 12.87 sf

Area Subtotal = 28.79 sf

Wall #1 Total = 29 SF

Wall #2 Calcs

North Wall Area (WP004) = 12.81 sf

South Wall Area (WP006) = 15.65 sf

Area Subtotal = 28.46 sf

Wall #2 Total = 29 SF

BURGESS & NIPLE, INC. - COMPUTATION SHEETJOB NO. 61865
SUBJECT MSE Wall QuantitiesJOB NAME Cemetery Road S.U.P.SHEET 3 OF 6
PREPARED BY BWC DATE 12/11/2025
CHECKED BY SCA DATE 1/21/2026
CHECKED BY JFM DATE 6/30/2026**601 21001 CONCRETE SLOPE PROTECTION, AS PER PLAN**

WALL 1	WALL 2	TOTAL	UNIT
5	5	10	SY

Wall #1 CalcsCSP Width = 2 ft
CSP Length = 20.333 ft
Area Subtotal = 40.67 sfWall #1 Total = **5** SY**Wall #2 Calcs**CSP Width = 2 ft
CSP Length = 20.333 ft
Area Subtotal = 40.67 sfWall #2 Total = **5** SY**611 99710 PRECAST REINFORCED CONCRETE OUTLET**

WALL 1	WALL 2	TOTAL	UNIT
2	2	4	EACH

840 20000 MECHANICALLY STABILIZED EARTH WALL

See Scratch 2 on elevation views

Taken from top of wall to top of leveling pad

WALL 1	WALL 2	TOTAL	UNIT
3417	3210	6627	SF

Wall #1 CalcsEast Face of Wall (I-270 side)
Wall Length = 21.583 ft
Top of Wall EL = 884.41
Bottom of Wall EL = 866
Area Subtotal = 397.35 sf**North Face of Wall (WP003)**

Section 1 Area =	126.27	sf	Measured in CAD
Section 2 Area =	422.46	sf	Measured in CAD
Section 3 Area =	253.39	sf	Measured in CAD
Section 4 Area =	225.89	sf	Measured in CAD
Section 5 Area =	181.95	sf	Measured in CAD
Section 6 Area =	156.93	sf	Measured in CAD
Section 7 Area =	131.91	sf	Measured in CAD
Area Subtotal =	1498.80	sf	

South Face of Wall (WP001)

Section 1 Area =	136.63	sf	Measured in CAD
Section 2 Area =	443.27	sf	Measured in CAD
Section 3 Area =	251.4	sf	Measured in CAD
Section 4 Area =	224.05	sf	Measured in CAD
Section 5 Area =	180.13	sf	Measured in CAD
Section 6 Area =	155.11	sf	Measured in CAD
Section 7 Area =	130.09	sf	Measured in CAD
Area Subtotal =	1520.68	sf	

Wall #1 Total = **3417** SF**Wall #2 Calcs**West Face of Wall (I-270 side)
Wall Length = 21.583 ft
Top of Wall EL = 883.88
Bottom of Wall EL = 866
Area Subtotal = 385.91 sf**North Face of Wall (WP004)**

Section 1 Area =	132.7	sf	Measured in CAD
Section 2 Area =	437.48	sf	Measured in CAD
Section 3 Area =	222.6	sf	Measured in CAD
Section 4 Area =	197.98	sf	Measured in CAD
Section 5 Area =	172.83	sf	Measured in CAD
Section 6 Area =	147.95	sf	Measured in CAD
Section 7 Area =	123.0656	sf	Measured in CAD
Area Subtotal =	1434.61	sf	

South Face of Wall (WP006)

Section 1 Area =	123.37	sf	Measured in CAD
Section 2 Area =	410.12	sf	Measured in CAD
Section 3 Area =	220.96	sf	Measured in CAD
Section 4 Area =	196.08	sf	Measured in CAD
Section 5 Area =	171.2	sf	Measured in CAD
Section 6 Area =	146.32	sf	Measured in CAD
Section 7 Area =	121.43	sf	Measured in CAD
Area Subtotal =	1389.48	sf	

Wall #2 Total = **3210** SF

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JOB NO. <u>61865</u>	JOB NAME <u>Cemetery Road S.U.P.</u>	SHEET <u>4</u>	OF <u>6</u>
SUBJECT <u>MSE Wall Quantities</u>		PREPARED BY <u>BWC</u>	DATE <u>12/11/2025</u>
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840 21000 WALL EXCAVATION

WALL 1	WALL 2	TOTAL	UNIT
457	387	844	CY

Wall #1 Calcs

North Face of Wall (WP003)
 1/2 Width Between Walls = 12.56 ft
 Avg Top of Ex Ground = 876.988

Section	Width (ft)	Elevation	Area (sf)
1	23.635	863.50	318.78
2	10	867.00	99.88
3	10	869.50	74.88
4	9.167	872.00	45.72
5	9.167	874.50	22.81
6	9.167	877.00	0.00
7	12.000	-	48.00

Area Subtotal = 610.07
 Volume Subtotal = 7663.53 cf

South Face of Wall (WP001)
 1/2 Width Between Walls = 12.56 ft
 Avg Top of Ex Ground = 873.519

Section	Width (ft)	Elevation	Area (sf)
1	25.0513	863.50	251.00
2	10	867.00	65.19
3	10	869.50	40.19
4	10	872.00	15.19
5	9.17	874.50	0.00
6	9.17	877.00	0.00

Area Subtotal = 371.58 sf
 Volume Subtotal = 4667.62 cf

Wall #1 Total = **457** CY

Wall #2 Calcs

North Face of Wall (WP004)
 1/2 Width Between Walls = 12.56 ft
 Avg Top of Ex Ground = 876.648

Section	Width (ft)	Elevation	Area (sf)
1	24.9158	864.50	302.68
2	9	867.00	86.83
3	9	869.50	64.33
4	9	872.00	41.83
5	9	874.50	19.33
6	9	877.00	0.00
7	9.000	-	27.00

Area Subtotal = 542.01
 Volume Subtotal = 6808.48 cf

South Face of Wall (WP006)
 1/2 Width Between Walls = 12.56 ft
 Avg Top of Ex Ground = 872.883

Section	Width (ft)	Elevation	Area (sf)
1	23.635	864.50	198.14
2	9	867.00	52.95
3	9	869.50	30.45
4	9	872.00	7.95
5	9	874.50	0.00
6	9	877.00	0.00

Area Subtotal = 289.49 sf
 Volume Subtotal = 3636.43 cf

Wall #2 Total = **387** CY

840 22001 FOUNDATION PREPARATION, AS PER PLAN

WALL 1	WALL 2	TOTAL	UNIT
206	199	405	SY

Wall #1 Calcs

North Wall Length = 71.13 ft
 South Wall Length = 72.55 ft
 Distance Between f/f Wall = 21.583 ft
 Add'l Excavation Width = 1.77 ft
 Area Subtotal = 1849.399 sf

Wall #1 Total = **206** SY

Wall #2 Calcs

North Wall Length = 70.05 ft
 South Wall Length = 68.63 ft
 Distance Between f/f Wall = 21.583 ft
 Add'l Excavation Width = 1.77 ft
 Area Subtotal = 1786.591 sf

Wall #2 Total = **199** SY

840 23000 SELECT GRANULAR BACKFILL

See Scratch 3 shape on CAD elevation views

WALL 1	WALL 2	TOTAL	UNIT
1116	1044	2160	CY

Wall #1 Calcs

North Wall Area (WP003) = 1378.82 sf
 South Wall Area (WP001) = 1413.21 sf
 Avg Area = 1396.02 sf
 Distance Between f/f Wall = 21.583 ft

Wall #1 Total = **1116** CY

Wall #2 Calcs

North Wall Area (WP004) = 1327.83 sf
 South Wall Area (WP006) = 1281.93 sf
 Avg Area = 1304.88 sf
 Distance Between f/f Wall = 21.583 ft

Wall #2 Total = **1044** CY

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JOB NO. <u>61865</u>	JOB NAME <u>Cemetery Road S.U.P.</u>	SHEET <u>5</u>	OF <u>6</u>
SUBJECT <u>MSE Wall Quantities</u>		PREPARED BY <u>BWC</u>	DATE <u>12/11/2025</u>
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840 23050 NATURAL SOIL

WALL 1	WALL 2	TOTAL	UNIT
3	3	6	CY

Wall #1 Calcs

Soil Width = 2.16667 ft
 Soil Thickness = 0.5 ft
 Soil Length = 62.43 ft

Wall #1 Total = 3 CY

Wall #2 Calcs

Soil Width = 2.16667 ft
 Soil Thickness = 0.5 ft
 Soil Length = 59.93 ft

Wall #2 Total = 3 CY

840 25010 6" DRAINAGE PIPE, PERFORATED

WALL 1	WALL 2	TOTAL	UNIT
218	213	431	FT

Wall #1 Calcs

Between t/f Walls
 Pipe Length = 19.625 ft
 # Pipes = 3 ea
 Length Subtotal = 58.875 ft

North Face of Wall (WP003)
 Vertical Step Length = 7.9 ft
 Pipe Plan Length = 70.1345833 ft
 Length Subtotal = 78.0345833 ft

South Face of Wall (WP001)
 Vertical Step Length = 9.04 ft
 Pipe Plan Length = 71.551 ft
 Length Subtotal = 80.59 ft

Wall #1 Total = 218 FT

Wall #2 Calcs

Between t/f Walls
 PCPP Length = 19.625 ft
 # Pipes = 3 ea
 Length Subtotal = 58.875 ft

North Face of Wall (WP004)
 Vertical Step Length = 7.9 ft
 Pipe Plan Length = 69.05 ft
 Length Subtotal = 76.95 ft

South Face of Wall (WP006)
 Vertical Step Length = 9.06 ft
 Pipe Plan Length = 67.635 ft
 Length Subtotal = 76.69 ft

Wall #2 Total = 213 FT

840 25020 6" DRAINAGE PIPE, NON-PERFORATED

WALL 1	WALL 2	TOTAL	UNIT
125	121	246	FT

Wall #1 Calcs

From Abutment Drainage
 Extension from RA PCPP = 2 ft
 Approx Pipe EL @ RA = 886.91
 Approx MSE Pipe EL = 870.46
 # Pipes = 2 ea
 Length Subtotal = 36.900 ft

North Face of Wall (WP003)
 Pipe Length = 47 ft
 Extension from PCPP = 1.708 ft
 Length Subtotal = 48.708 ft

South Face of Wall (WP001)
 Pipe Length = 37 ft
 Extension from PCPP = 1.625 ft
 Length Subtotal = 38.625 ft

Wall #1 Total = 125 FT

Wall #2 Calcs

From Abutment Drainage
 Extension from RA PCPP = 2 ft
 Approx Pipe EL @ RA = 886.38
 Approx MSE Pipe EL = 870.43
 # Pipes = 2 ea
 Length Subtotal = 35.910 ft

North Face of Wall (WP004)
 Pipe Length = 45 ft
 Extension from PCPP = 1.708 ft
 Length Subtotal = 46.708 ft

South Face of Wall (WP006)
 Pipe Length = 36 ft
 Extension from PCPP = 1.625 ft
 Length Subtotal = 37.625 ft

Wall #2 Total = 121 FT

840 26000 CONCRETE COPING

Measurements taken in CAD files along perimeter of top coping line

WALL 1	WALL 2	TOTAL	UNIT
183	178	361	FT

Wall #1 Calcs

Coping Length @ RA = 22.375 ft
 North Length (WP003) = 79.66 ft
 South Length (WP001) = 80.92 ft

Wall #1 Total = 183 FT

Wall #2 Calcs

Coping Length @ RA = 22.375 ft
 North Length (WP004) = 78.61 ft
 South Length (WP006) = 76.99 ft

Wall #2 Total = 178 FT

BURGESS & NIPLE, INC. - COMPUTATION SHEETJOB NO. 61865
SUBJECT MSE Wall QuantitiesJOB NAME Cemetery Road S.U.P.SHEET 6 OF 6
PREPARED BY BWC DATE 12/11/2025
CHECKED BY SCA DATE 1/21/2026
CHECKED BY JFM DATE 6/30/2026**840 26050 AESTHETIC SURFACE TREATMENT**

WALL 1	WALL 2	TOTAL	UNIT
0	86	86	SF

Wall #1 Total = 0 SFWall #2 Total = 86 SF**840 27000 ON-SITE ASSISTANCE**

Item 840 On-Site Assistance is listed as a number of days. For normal projects where there are less than 4 walls then the number of days should be five in the contract. For other projects that have more walls or multiple year contracts then more days should be used. Contact the District Construction Engineers for help.

WALL 1	WALL 2	TOTAL	UNIT
2.5	2.5	5	DAY

840 28000 SGB INSPECTION AND COMPACTION TESTINGTotal = LS LS

WALL 1	WALL 2	TOTAL	UNIT
LS	LS	LS	LS

867 00100 TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALLTotal = LS LS

WALL 1	WALL 2	TOTAL	UNIT
LS	LS	LS	LS