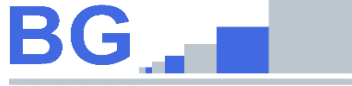


Project: BRO-763-1.51



Date: 9/22/21
 By: RG
 Checked: CCJ
 Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY URETHANE)

ITEM NO. 512E10100
 QUANTITY 340
 UNIT SY

Sealing

Retaining wall 3

Behind HW

	(ft)	Top (ft)	Front (ft)	Total Ht (ft)	Len (ft)	#	Total (SY)
8' Wall	0.5	0.5	8	9.0	7.833	4	31.33
							31.33
							say= 32.00

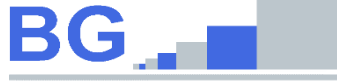
Existing Retaining wall 2 and Wall 4

	0.5	0.5	6	7.0	3.833	41	122.23
	0.5	0.5	8	9.0	4.833	4	19.33

Total for Retaing wall 1= 142
say= 142.00

Retaining wall 5

D	4' Wall	0.5	0.5	4	5.0	7.833	1	4.35
C	5' Wall	0.5	0.5	5	6.0	7.833	6	31.33
B	6' Wall	0.5	0.5	6	7.0	7.833	4	24.37
A	7' Wall	0.5	0.5	7	8.0	7.833	14	97.48
E	8' Wall	0.5	0.5	8	9.0	7.833	1	7.83
								165.36
								say= 166.00



Project: BRO-763-1.51

Date: 9/22/21
 By: RG
 Checked: CCJ
 Date: 9/30/21

QUANTITY COMPUTATIONS

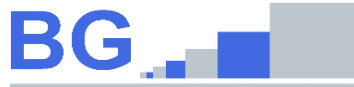
DESCRIPTION: POROUS BACKFILL WITH FILTER FABRIC

ITEM NO. 518E21200
 QUANTITY 142
 UNIT CY

	Height (Ft)	Width (ft)	Length (ft)	#	Vol (CY)	
Existing Retaining Wall 2 & 4	2	2	180	1	26.7	
	3	0.833	180	1	16.7	
				Total=	43.3	CY
				Say =	43	CY

	Height (Ft)	Width (ft)	Length (ft)	#	Vol (CY)	
Retaining Wall 3	7	2	32	1	16.6	
				Total=	16.6	CY
				Say =	17	CY

	Height (Ft)	Width (ft)	Length (ft)	#	Vol (CY)	
Retaining Wall 5	3	2	8	1	1.8	
	4	2	8	6	14.2	
	5	2	8	4	11.9	
	6	2	8	14	49.8	
	7	2	8	1	4.1	
				Total=	81.8	CY
				Say =	82	CY



Project: BRO-763-1.51

Date: 9/22/21
By: RG
Checked: CCJ
Date: 9/30/21

QUANTITY COMPUTATIONS

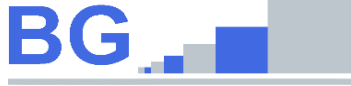
DESCRIPTION: LOW STRENGTH MORTAR BACKFILL

ITEM NO. 613E41200
QUANTITY 18
UNIT CY

Existing Retaining wall 2 and Wall 4

	Height (Ft)	Width (ft)	Length (ft)	#	Vol (CY)
A	3	0.8	4	40	14.81
B	5	0.8	4	4	2.47
C	3	0.8	4	1	0.37

Total = 17.65
say= 18.00



Project: BRO-763-1.51

Date:	9/29/21
By:	CCJ
Checked:	RG
Date:	9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: STEEL PILE, MISC.: W16X31 STEEL BEAM, FURNISHED

ITEM NO.	507E0400
QUANTITY	141
UNIT	FT

Existing Retaining wall 2 and Wall 4

Height (Ft)	#	Total (FT)
3	47	141

Total = 141



Project: BRO-763-1.51

Date: 9/29/21

By: CCJ

Checked: RG

Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: STEEL PILE, MISC.: W18X76 STEEL BEAM, FURNISHED

ITEM NO. 507E0400
QUANTITY 706
UNIT FT

Retaining Wall 5

Retaining Wall 5 total from Retaining Wall Summary Spreadsheet =
Retaining Wall 3 total from Retaining Wall Summary Spreadsheet =

Total (FT)

596

110

Total = 706



Project: BRO-763-1.51



Date: 9/29/21
By: CCJ
Checked: RG
Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: UNCLASSIFIED EXCAVATION

ITEM NO. 503E21300
QUANTITY 1
UNIT LUMP

	Area (SF)	Width	Length	Ave. Height	#	Vol (CY)	
Existing Retaining Wall	2.4167		182		1	16.3	
					Total =	16	CY
Retaining Wall 3		2	32	7	1	16.6	
					Total =	17	CY
Retaining Wall 5		6	210	7.2800	1	339.7	CY
					Total =	372.6	



Project: BRO-763-1.51

Date: 9/29/21
By: CCJ
Checked: RG
Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: ROCK EXCAVATION

ITEM NO. 503E31100
QUANTITY 109
UNIT CY

	Area (SF)	Width	Length	Ave. Height	#	Vol (CY)
Assume 2 ft of rock above drilled shaft						
Retaining Wall 3		6	32	2	1	15.0
Retaining Wall 5		6	210	2	1	94.0
					Total =	109.0



Project: BRO-763-1.51

Date: 9/22/21
By: RG
Checked: CCJ
Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: CLASS QC1 CONCRETE, MISC.: LEVELING PAD

ITEM NO. 511E53010
QUANTITY 87
UNIT CY

	Width	Length	Ave. Height	#	Vol (CY)	
Existing Retaining Wall	2.417	180	1	1	16.1	
				Total =	16	CY
Retaining Wall 3	4	32	2	1	9.5	
				Total =	9	CY
Retaining Wall 5	4	208	2	1	61.6	
				Total =	62	CY
				Grand Total =	87	



Project: BRO-763-1.51

Date: 9/22/21
 By: RG
 Checked: CCJ
 Date: 9/30/21

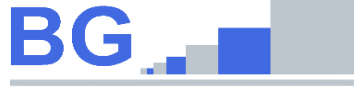
QUANTITY COMPUTATIONS

DESCRIPTION: CONCRETE, MISC.: PRECAST REINFORCED CONCRETE LAGGING PANEL

ITEM NO. 511E71200
 QUANTITY 2601
 UNIT SF

		Length	Height	#	Area (SF)	
Existing Retaining Wall		3.8333	6	41	943.0	
		3.8333	8	4	122.7	
				Total =	1066	SF
Retaining Wall 3		7.8333	8	4	250.7	
				Total =	251	SF
Retaining Wall 5	A	7.8333	7	14	767.7	
	B	7.8333	6	4	188.0	
	C	7.8333	5	6	235.0	
	D	7.8333	4	1	31.3	
	E	7.8333	8	1	62.7	
				Total =	1285	SF
				Grand Total =	2601	

Project: BRO-763-1.51



QUANTITY COMPUTATIONS

Date: 9/29/21

By: CCJ

Checked: RG

Date: 9/30/21

DESCRIPTION: DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK

ITEM NO. 524E94602

QUANTITY 54

UNIT FT

Retaining Wall 5

Total (FT)

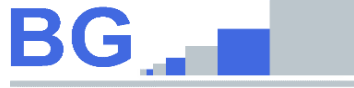
Retaining Wall 5 total from Retaining Wall Summary Spreadsheet = 54

Retaining Wall 3 total from Retaining Wall Summary Spreadsheet = 0

Total = 54



Project: BRO-763-1.51



Date: 9/29/21

By: CCJ

Checked: RG

Date: 9/30/21

QUANTITY COMPUTATIONS

DESCRIPTION: DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK

ITEM NO. 524E94605

QUANTITY 384

UNIT FT

Retaining Wall 5

Retaining Wall 5 total from Retaining Wall Summary Spreadsheet =

324

Retaining Wall 3 total from Retaining Wall Summary Spreadsheet =

60

Total = 384