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PYWALL Version 2025.8.7

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A Program for the Analysis of
Flexible Retaining Walls
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Cincinnati, OH, USA

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This model was prepared by:
Burgess and Niple

Path to file locations : P:\PR61865\120103\400-Engineering\Structures\Bridge\Stage 2\Temporary
Sheeting\Rear Abutment\PYWall\
Name of input data file : Rear Abut Max Height - B-010-0-23.py8d
Name of output file : Rear Abut Max Height - B-010-0-23.py8o
Name of plot output file : Rear Abut Max Height - B-010-0-23.py8p

Time and Date of Analysis

Date: July 29, 2026 Time: 12:02:15

Hiiliard Cemetery Rear Abutment, Boring B-010-0-23

* PROGRAM CONTROL PARAMETERS *

NO OF POINTS FOR SPECIFIED DEFLECTIONS AND SLOPES = 0
NO OF WALL SECTIONS = 1
NO OF CROSS SECTIONS = 1
GENERATE EARTH PRESSURE INTERNALLY = 1
GENERATE SOIL RESISTANCE (P-Y) CURVES INTERNALLY = 1
NO OF P-Y MODIFICATION FACTORS FOR GEN. P-Y CURVES = 0
NO OF USER-SPECIFIED SOIL RESISTANCE (P-Y) CURVES = 0
NO OF TIE BACKS = 0
NO OF STRUTS/RAKERS = 0

TOTAL WALL LENGTH = 35.000 FT
NUMBER OF INCREMENTS = 100
INCREMENT LENGTH = 4.200 IN
MAXIMUM ALLOWABLE DEFLECTION = 100.000 IN
DEFLECTION CLOSURE TOLERANCE = 1.000E-05 IN
MAXIMUM NUMBER OF ITERATIONS = 100

* SECTION PROPERTIES *

* WALL SECTIONS *

SECT	TOP FT	BOTTOM FT	SECTION
1	0.00000	35.0000	1

* CROSS SECTIONS *

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CROSS SECTION      :      1
SECTION NAME       : PZ
TYPE               : ELASTIC
CROSS SECTION TYPE : SHEET PILING
SOURCE             : USS
SECTION NAME       : 1
WIDTH              :      18.0000 IN
DEPTH              :      12.0000 IN
WEB THICKNESS      :      0.37500 IN
YOUNG MODULUS      :  2.90000E+07 LBS/IN**2
  
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* CROSS SECTIONS PROPERTIES *

ELASTIC SECTIONS

SECT	DIAM, IN	I, IN**4
1	18.0000	276.300

 * STIFFNESS AND LOAD DATA *

EI - FLEXURAL RIGIDITY, Q - TRANSVERSE LOAD,
 S - STIFFNESS OF TRANSVERSE RESISTANCE,
 T - TORQUE, P - AXIAL LOAD,

R - STIFFNESS OF TORSIONAL RESISTANCE.

FROM	TO	CONTD	EI	Q	S	T	R	P
			LBS-IN**2	LBS	LBS/IN	IN-LBS	IN-LBS	LBS
0	1		8.013E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	0		8.013E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* WALL INFORMATION *

FREE HEIGHT OF WALL = 1.400E+01 FT
WIDTH FOR EARTH PRESSURE, WA = 1.800E+01 IN
WIDTH FOR SOIL RESISTANCE, WP = 1.800E+01 IN
DEPTH TO THE WATER TABLE AT BACKFILL = 1.400E+01 FT
DEPTH TO THE WATER TABLE AT EXCAVATION = 1.400E+01 FT
UNIT WEIGHT OF WATER = 3.600E-02 LBS/IN**3
SLOPE OF THE BACKFILL (deg.) = 5.700E+00
SLOPE OF THE EXCAVATION GROUND (deg.) = 0.000E+00
MODIFICATION FOR ACTIVE EARTH PRESSURE = 1.500E+00

CONTINUOUS WALL MODEL, WA/WP = 1.00

* SURCHARGE INFORMATION *

UNIFORM SURFACE PRESSURE = 0.000E+00 LBS/IN**2
EQUIVALENT SURFACE PRESSURE = 7.170E-01 LBS/IN**2

DUE TO SLOPE OF BACKFILL
STARTS AT EXCAVATION LINE

* SOIL INFORMATION *

LAYER NO.	TOTAL THICKNESS FT	COHESION/ STRENGTH PSI	PHI DEG	TOTAL UNIT WEIGHT PCI	DRAINED T OR F	ZTOP FT
1	14.0	0.0	30.0	0.069	T	0.00
2	2.9	10.4	0.0	0.033	F	14.00
3	7.5	17.4	0.0	0.036	F	16.90
4	2.5	0.0	39.0	0.036	T	24.40
5	2.5	0.0	40.0	0.039	T	26.90
6	5.6	20.1	0.0	0.036	F	29.40

* EFFECTIVE OVERBURDEN STRESS *

DEPTH FT	STRESS LBS/IN**2
0.000E+00	0.000E+00
1.400E+01	1.238E+01
1.690E+01	1.229E+01
2.440E+01	1.231E+01
2.690E+01	1.232E+01
2.940E+01	1.241E+01

* ACTIVE AND PASSIVE EARTH PRESSURE COEFFICIENT *

LAYER NO.	ACTIVE EARTH COEFFICIENT	PASSIVE EARTH(*) COEFFICIENT	OPTIONAL EARTH(**) COEFFICIENT
1	3.384E-01	3.000E+00	0.000E+00
2	1.000E+00	1.000E+00	0.000E+00
3	1.000E+00	1.000E+00	0.000E+00
4	2.300E-01	4.395E+00	0.000E+00
5	2.197E-01	4.599E+00	0.000E+00
6	1.000E+00	1.000E+00	0.000E+00

NOTES:

(*) PASSIVE EARTH COEFFICIENT IS PRINTED ONLY FOR REFERENCE,
IT IS NOT USED FOR ANALYSIS

(**) OPTIONAL EARTH COEFFICIENT IS USED TO ESTIMATE ACTIVE PRESSURE
IF IT IS DIFFERENT THAN ZERO

* ACTIVE EARTH PRESSURE OF EACH LAYER *

LAYER NO	PA1 LBS/IN	Z1 FT	PA2 LBS/IN	Z2 FT	PA3 LBS/IN	Z3 FT	PA4 LBS/IN
1	0.00	7.00	497.42	9.33	0.00	-0.00	0.00

* GENERATED ACTIVE EARTH PRESSURE *

* GENERATED TRIANGULAR-DISTRIBUTION EARTH PRESSURE

* WARNING *

This model uses a reduction of active loads for the cohesive strength of clay. Please check carefully these results. Please evaluate if other alternatives are more applicable to your model (e.g., other/reduced cohesive strength, equivalent fluid pressure, and/or other type of retained soil to simulate drained and/or long-term conditions).

DEPTH FT -----	ACTIVE EARTH PRESSURE LBS/IN -----
0.00000E+00	0.00000E+00
5.00000E-01	3.80682E+00
1.00000E+00	7.61346E+00
1.50000E+00	1.14203E+01
2.00000E+00	1.52271E+01
2.50000E+00	1.90332E+01
3.00000E+00	2.28402E+01
3.50000E+00	2.66472E+01
4.00000E+00	3.04542E+01
4.50000E+00	3.42612E+01
5.00000E+00	3.80682E+01
5.50000E+00	4.18734E+01
6.00000E+00	4.56804E+01
6.50000E+00	4.94874E+01
7.00000E+00	5.32944E+01
7.50000E+00	5.71014E+01
8.00000E+00	6.09084E+01
8.50000E+00	6.47154E+01
9.00000E+00	6.85224E+01
9.50000E+00	7.23276E+01
1.00000E+01	7.61346E+01
1.05000E+01	7.99416E+01
1.10000E+01	8.37486E+01
1.15000E+01	8.75556E+01
1.20000E+01	9.13626E+01
1.25000E+01	9.51696E+01
1.30000E+01	9.89748E+01

1.35000E+01	1.02782E+02
1.40000E+01	1.06589E+02
1.44975E+01	3.15000E-09
1.49942E+01	3.25800E-09
1.54917E+01	3.36600E-09
1.59883E+01	3.47400E-09
1.64858E+01	3.58200E-09
1.69833E+01	3.69000E-09
1.74833E+01	3.79800E-09
1.79833E+01	3.90600E-09
1.84833E+01	4.01400E-09
1.89833E+01	4.12200E-09
1.94833E+01	4.23000E-09
1.99833E+01	4.33800E-09
2.04833E+01	4.44600E-09
2.09833E+01	4.55400E-09
2.14833E+01	4.66200E-09
2.19833E+01	4.77000E-09
2.24833E+01	4.87800E-09
2.29833E+01	4.98600E-09
2.34833E+01	5.09400E-09
2.39833E+01	5.20200E-09
2.44833E+01	7.68996E+01
2.49833E+01	7.68996E+01
2.54833E+01	7.68996E+01
2.59833E+01	7.68996E+01
2.64833E+01	7.68996E+01
2.69833E+01	7.34724E+01
2.74833E+01	7.34724E+01
2.79833E+01	7.34724E+01
2.84833E+01	7.34724E+01
2.89833E+01	7.34724E+01
2.94833E+01	6.39000E-09
2.99850E+01	6.49800E-09
3.04867E+01	6.60600E-09
3.09883E+01	6.71400E-09

3.14892E+01	6.82200E-09
3.19908E+01	6.93000E-09
3.24925E+01	7.03800E-09
3.29942E+01	7.14600E-09
3.34958E+01	7.25400E-09
3.39967E+01	7.36200E-09
3.44983E+01	7.47000E-09
3.50000E+01	7.57800E-09

* SOIL LAYERS AND STRENGTH DATA *

X AT THE SURFACE OF EXCAVATION SIDE = 14.00 FT

5 LAYER(S) OF SOIL

LAYER 1
THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

LAYER 2
THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

LAYER 3
THE SOIL IS A SAND

LAYER 4
THE SOIL IS A SAND

LAYER 5
THE SOIL IS A STIFF CLAY WITHOUT FREE WATER

DISTRIBUTION OF EFFECTIVE UNIT WEIGHT WITH DEPTH

10 POINTS

X, FT	WEIGHT, LBS/IN**3
14.0000	-2.6667E-03
16.9000	-2.6667E-03
16.9000	2.2685E-04
24.4000	2.2685E-04
24.4000	2.2685E-04
26.9000	2.2685E-04
26.9000	3.1204E-03
29.4000	3.1204E-03
29.4000	2.2685E-04
35.0000	2.2685E-04

DISTRIBUTION OF STRENGTH PARAMETERS WITH DEPTH 10 POINTS

X, FT	C, LBS/IN**2	PHI, DEGREE	E50	KPY, LBS/IN**3
14.00	1.0417E+01	0.000	0.0000E+00	0.0000E+00
16.90	1.0417E+01	0.000	0.0000E+00	0.0000E+00
16.90	1.7361E+01	0.000	0.0000E+00	0.0000E+00
24.40	1.7361E+01	0.000	0.0000E+00	0.0000E+00
24.40	0.0000E+00	39.000	0.0000E+00	0.0000E+00
26.90	0.0000E+00	39.000	0.0000E+00	0.0000E+00
26.90	0.0000E+00	40.000	0.0000E+00	0.0000E+00
29.40	0.0000E+00	40.000	0.0000E+00	0.0000E+00
29.40	2.0139E+01	0.000	0.0000E+00	0.0000E+00
35.00	2.0139E+01	0.000	0.0000E+00	0.0000E+00

P-Y CURVES DATA

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
0.01	18.000	12.00	1.04E+01	1.04E+01	-2.67E-03	7.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00003	21.08753
0.00017	31.53321
0.00034	37.49952
0.00168	56.07486
0.00336	66.68463
0.01680	99.71677
0.03360	118.58390
0.08400	149.11136
0.16800	177.32429
0.25200	196.24158
0.33600	210.87531
0.84000	265.16166
1.68000	315.33213
3.36000	374.99521
3.78000	374.99521
4.20000	374.99521

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	

14.01 18.000 12.00 1.04E+01 1.04E+01 6.94E-02 7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00003	32.89670
0.00017	49.19204
0.00034	58.49952
0.00168	87.47719
0.00336	104.02850
0.01680	155.55888
0.03360	184.99173
0.08400	232.61478
0.16800	276.62716
0.25200	306.13827
0.33600	328.96698
0.84000	413.65408
1.68000	491.92038
3.36000	584.99521
3.78000	584.99521
4.20000	584.99521

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
0.72	18.000	12.00	1.04E+01	1.04E+01	-2.67E-03	7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000

0.00003	21.06432
0.00017	31.49850
0.00034	37.45824
0.00168	56.01314
0.00336	66.61122
0.01680	99.60700
0.03360	118.45336
0.08400	148.94721
0.16800	177.12909
0.25200	196.02556
0.33600	210.64317
0.84000	264.86976
1.68000	314.98501
3.36000	374.58241
3.78000	374.58241
4.20000	374.58241

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
14.72	18.000	12.00	1.04E+01	1.04E+01	6.59E-02	7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00003	32.87348
0.00017	49.15733
0.00034	58.45824
0.00168	87.41546
0.00336	103.95509

0.01680	155.44911
0.03360	184.86119
0.08400	232.45064
0.16800	276.43196
0.25200	305.92225
0.33600	328.73485
0.84000	413.36219
1.68000	491.57325
3.36000	584.58241
3.78000	584.58241
4.20000	584.58241

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
1.45	18.000	12.00	1.04E+01	1.04E+01	-2.67E-03	7.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00003	21.04083
0.00017	31.46338
0.00034	37.41648
0.00168	55.95069
0.00336	66.53696
0.01680	99.49596
0.03360	118.32130
0.08400	148.78116
0.16800	176.93162
0.25200	195.80702

0.33600	210.40834
0.84000	264.57448
1.68000	314.63385
3.36000	374.16481
3.78000	374.16481
4.20000	374.16481

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
15.45	18.000	12.00	1.04E+01	1.04E+01	6.27E-02	7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00003	32.85000
0.00017	49.12221
0.00034	58.41648
0.00168	87.35301
0.00336	103.88083
0.01680	155.33807
0.03360	184.72913
0.08400	232.28459
0.16800	276.23449
0.25200	305.70371
0.33600	328.50002
0.84000	413.06690
1.68000	491.22210
3.36000	584.16481
3.78000	584.16481

4.20000 584.16481

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
2.18	18.000	12.00	1.04E+01	1.04E+01	-2.67E-03	7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00003	21.01735
0.00017	31.42827
0.00034	37.37472
0.00168	55.88824
0.00336	66.46270
0.01680	99.38491
0.03360	118.18925
0.08400	148.61511
0.16800	176.73415
0.25200	195.58848
0.33600	210.17350
0.84000	264.27919
1.68000	314.28269
3.36000	373.74721
3.78000	373.74721
4.20000	373.74721

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
16.18	18.000	12.00	1.04E+01	1.04E+01	5.97E-02	7.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00003	32.82652
0.00017	49.08709
0.00034	58.37472
0.00168	87.29057
0.00336	103.80657
0.01680	155.22702
0.03360	184.59708
0.08400	232.11854
0.16800	276.03701
0.25200	305.48517
0.33600	328.26518
0.84000	412.77161
1.68000	490.87094
3.36000	583.74721
3.78000	583.74721
4.20000	583.74721

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
----------------	------	-------	---	------	-----------	-----

FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
2.89	18.000	12.00	1.04E+01	1.04E+01	-2.67E-03	7.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00003	20.99414
0.00017	31.39356
0.00034	37.33344
0.00168	55.82652
0.00336	66.38929
0.01680	99.27514
0.03360	118.05871
0.08400	148.45097
0.16800	176.53894
0.25200	195.37246
0.33600	209.94137
0.84000	263.98729
1.68000	313.93557
3.36000	373.33441
3.78000	373.33441
4.20000	373.33441

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
16.89	18.000	12.00	1.04E+01	1.04E+01	5.71E-02	7.0000E-03

Y	P
IN	LBS/IN

0.00000	0.00000
0.00003	32.80330
0.00017	49.05238
0.00034	58.33344
0.00168	87.22884
0.00336	103.73316
0.01680	155.11725
0.03360	184.46654
0.08400	231.95439
0.16800	275.84181
0.25200	305.26915
0.33600	328.03305
0.84000	412.47972
1.68000	490.52382
3.36000	583.33441
3.78000	583.33441
4.20000	583.33441

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
2.91	18.000	12.00	1.74E+01	1.74E+01	-2.66E-03	5.0000E-03

	Y	P
	IN	LBS/IN
0.00000	0.00000	
0.00002	35.05242	
0.00012	52.41560	
0.00024	62.33300	
0.00120	93.20958	

0.00240	110.84549
0.01200	165.75267
0.02400	197.11425
0.06000	247.85805
0.12000	294.75456
0.18000	326.19955
0.24000	350.52422
0.60000	440.76087
1.20000	524.15597
2.40000	623.33001
2.70000	623.33001
3.00000	623.33001

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
16.91	18.000	12.00	1.74E+01	1.74E+01	5.70E-02	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	46.86159
0.00012	70.07442
0.00024	83.33300
0.00120	124.61190
0.00240	148.18936
0.01200	221.59478
0.02400	263.52208
0.06000	331.36148
0.12000	394.05743

0.18000	436.09624
0.24000	468.61590
0.60000	589.25330
1.20000	700.74421
2.40000	833.33000
2.70000	833.33000
3.00000	833.33000

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
4.78	18.000	12.00	1.74E+01	1.74E+01	-1.53E-03	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	35.05757
0.00012	52.42329
0.00024	62.34215
0.00120	93.22326
0.00240	110.86176
0.01200	165.77699
0.02400	197.14318
0.06000	247.89443
0.12000	294.79781
0.18000	326.24741
0.24000	350.57566
0.60000	440.82555
1.20000	524.23288
2.40000	623.42147

2.70000	623.42147
3.00000	623.42147

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
18.78	18.000	12.00	1.74E+01	1.74E+01	5.14E-02	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	46.86673
0.00012	70.08211
0.00024	83.34215
0.00120	124.62558
0.00240	148.20563
0.01200	221.61910
0.02400	263.55101
0.06000	331.39785
0.12000	394.10068
0.18000	436.14410
0.24000	468.66734
0.60000	589.31797
1.20000	700.82113
2.40000	833.42147
2.70000	833.42147
3.00000	833.42147

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
6.65	18.000	12.00	1.74E+01	1.74E+01	-1.03E-03	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	35.06273
0.00012	52.43101
0.00024	62.35133
0.00120	93.23699
0.00240	110.87810
0.01200	165.80142
0.02400	197.17223
0.06000	247.93096
0.12000	294.84126
0.18000	326.29549
0.24000	350.62732
0.60000	440.89052
1.20000	524.31014
2.40000	623.51335
2.70000	623.51335
3.00000	623.51335

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
20.65	18.000	12.00	1.74E+01	1.74E+01	4.67E-02	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	46.87190
0.00012	70.08984
0.00024	83.35133
0.00120	124.63932
0.00240	148.22196
0.01200	221.64353
0.02400	263.58006
0.06000	331.43438
0.12000	394.14413
0.18000	436.19218
0.24000	468.71900
0.60000	589.38294
1.20000	700.89839
2.40000	833.51335
2.70000	833.51335
3.00000	833.51335

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
8.53	18.000	12.00	1.74E+01	1.74E+01	-7.57E-04	5.0000E-03

Y	P
---	---

IN	LBS/IN
0.00000	0.00000
0.00002	35.06790
0.00012	52.43874
0.00024	62.36052
0.00120	93.25073
0.00240	110.89443
0.01200	165.82585
0.02400	197.20129
0.06000	247.96749
0.12000	294.88470
0.18000	326.34357
0.24000	350.67899
0.60000	440.95548
1.20000	524.38740
2.40000	623.60522
2.70000	623.60522
3.00000	623.60522

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
22.53	18.000	12.00	1.74E+01	1.74E+01	4.29E-02	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	46.87707
0.00012	70.09756
0.00024	83.36052

0.00120	124.65306
0.00240	148.23830
0.01200	221.66796
0.02400	263.60912
0.06000	331.47092
0.12000	394.18757
0.18000	436.24026
0.24000	468.77067
0.60000	589.44791
1.20000	700.97564
2.40000	833.60522
2.70000	833.60522
3.00000	833.60522

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
10.39	18.000	12.00	1.74E+01	1.74E+01	-5.81E-04	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	35.07304
0.00012	52.44643
0.00024	62.36967
0.00120	93.26441
0.00240	110.91070
0.01200	165.85018
0.02400	197.23021
0.06000	248.00386

0.12000	294.92796
0.18000	326.39144
0.24000	350.73043
0.60000	441.02016
1.20000	524.46431
2.40000	623.69669
2.70000	623.69669
3.00000	623.69669

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
24.39	18.000	12.00	1.74E+01	1.74E+01	3.96E-02	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	46.88221
0.00012	70.10526
0.00024	83.36967
0.00120	124.66673
0.00240	148.25457
0.01200	221.69228
0.02400	263.63804
0.06000	331.50729
0.12000	394.23083
0.18000	436.28813
0.24000	468.82210
0.60000	589.51258
1.20000	701.05256

2.40000	833.69669
2.70000	833.69669
3.00000	833.69669

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
10.41	18.00	12.00	39.00	-5.79E-04	1.33E+02	0.88	0.50	-1.38E+01

Y IN	P LBS/IN
0.000	0.000
0.000	-0.308
0.000	-0.615
0.000	-1.169
0.000	-1.723
0.000	-2.277
0.000	-2.830
0.000	-3.384
0.000	-3.938
0.000	-4.491
0.000	-5.045
0.000	-5.599
0.000	-7.866
0.000	-8.716
0.000	-11.280
0.000	-13.844
0.000	-16.612

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
24.41	18.00	12.00	39.00	3.96E-02	1.33E+02	0.88	0.50	2.22E+03

Y	P
IN	LBS/IN
0.000	0.000
-0.000	49.292
-0.001	98.585
-0.002	187.311
-0.003	276.037
-0.004	364.764
-0.005	453.490
-0.005	542.216
-0.006	630.943
-0.007	719.669
-0.008	808.395
-0.009	897.122
-0.010	985.848
-0.014	1396.618
-0.018	1807.388
-0.022	2218.158
-0.027	2661.790

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
11.03	18.00	12.00	39.00	-5.34E-04	1.33E+02	0.88	0.50	-1.35E+01

Y	P
IN	LBS/IN
0.000	0.000
0.000	-0.300
0.000	-0.601
0.000	-1.142
0.000	-1.683
0.000	-2.224
0.000	-2.765
0.000	-3.305
0.000	-3.846
0.000	-4.387
0.000	-4.928
0.000	-5.469
0.000	-7.683
0.000	-8.514
0.000	-11.018
0.000	-13.522
0.000	-16.227

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
25.03	18.00	12.00	39.00	3.86E-02	1.33E+02	0.88	0.50	2.22E+03

Y	P
IN	LBS/IN
0.000	0.000
-0.001	49.300
-0.001	98.599
-0.002	187.338
-0.003	276.077
-0.004	364.817
-0.005	453.556
-0.006	542.295
-0.006	631.034
-0.007	719.773
-0.008	808.512
-0.009	897.252
-0.010	985.991
-0.014	1396.820
-0.018	1807.650
-0.023	2218.479
-0.027	2662.175

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
11.65	18.00	12.00	39.00	-4.93E-04	1.33E+02	0.88	0.50	-1.32E+01

Y	P
IN	LBS/IN
0.000	0.000
0.000	-0.293
0.000	-0.587

0.000	-1.114
0.000	-1.642
0.000	-2.170
0.000	-2.698
0.000	-3.226
0.000	-3.754
0.000	-4.282
0.000	-4.810
0.000	-5.337
0.000	-7.498
0.000	-8.309
0.000	-10.753
0.000	-13.197
0.000	-15.836

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
25.65	18.00	12.00	39.00	3.77E-02	1.33E+02	0.88	0.50	2.22E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	49.307
-0.001	98.614
-0.002	187.366
-0.003	276.118
-0.004	364.870
-0.005	453.622
-0.006	542.374

-0.007	631.127
-0.007	719.879
-0.008	808.631
-0.009	897.383
-0.010	986.135
-0.014	1397.025
-0.019	1807.915
-0.023	2218.805
-0.027	2662.566

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
12.28	18.00	12.00	39.00	-4.57E-04	1.33E+02	0.88	0.50	-1.29E+01

Y IN	P LBS/IN
0.000	0.000
0.000	-0.286
0.000	-0.572
0.000	-1.087
0.000	-1.602
0.000	-2.117
0.000	-2.631
0.000	-3.146
0.000	-3.661
0.000	-4.176
0.000	-4.691
0.000	-5.206
0.000	-7.313

0.000	-8.104
0.000	-10.488
0.000	-12.871
0.000	-15.446

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIA IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
26.28	18.00	12.00	39.00	3.68E-02	1.33E+02	0.88	0.50	2.22E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	49.314
-0.001	98.628
-0.002	187.393
-0.003	276.158
-0.004	364.924
-0.005	453.689
-0.006	542.454
-0.007	631.219
-0.008	719.984
-0.008	808.750
-0.009	897.515
-0.010	986.280
-0.015	1397.230
-0.019	1808.180
-0.023	2219.130
-0.028	2662.956

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
12.89	18.00	12.00	39.00	-4.24E-04	1.33E+02	0.88	0.50	-1.26E+01

Y	P
IN	LBS/IN
0.000	0.000
0.000	-0.279
0.000	-0.558
0.000	-1.060
0.000	-1.562
0.000	-2.064
0.000	-2.566
0.000	-3.068
0.000	-3.570
0.000	-4.072
0.000	-4.574
0.000	-5.076
0.000	-7.131
0.000	-7.902
0.000	-10.226
0.000	-12.550
0.000	-15.060

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
26.89	18.00	12.00	39.00	3.60E-02	1.33E+02	0.88	0.50	2.22E+03

Y	P
IN	LBS/IN
0.000	0.000
-0.001	49.321
-0.001	98.642
-0.002	187.420
-0.003	276.198
-0.004	364.976
-0.005	453.754
-0.006	542.533
-0.007	631.311
-0.008	720.089
-0.009	808.867
-0.010	897.645
-0.010	986.423
-0.015	1397.432
-0.019	1808.442
-0.024	2219.451
-0.028	2663.342

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
12.91	18.00	12.00	40.00	-4.21E-04	1.46E+02	0.88	0.50	-1.38E+01

Y	P
IN	LBS/IN
0.000	0.000
0.000	-0.307
0.000	-0.615
0.000	-1.168
0.000	-1.721
0.000	-2.274
0.000	-2.827
0.000	-3.380
0.000	-3.934
0.000	-4.487
0.000	-5.040
0.000	-5.593
0.000	-7.857
0.000	-8.707
0.000	-11.268
0.000	-13.829
0.000	-16.595

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
26.91	18.00	12.00	40.00	3.59E-02	1.46E+02	0.88	0.50	2.46E+03

Y	P
IN	LBS/IN
0.000	0.000
-0.001	54.627

-0.001	109.254
-0.002	207.582
-0.003	305.911
-0.004	404.239
-0.005	502.567
-0.007	600.896
-0.008	699.224
-0.009	797.552
-0.010	895.881
-0.011	994.209
-0.012	1092.538
-0.017	1547.762
-0.022	2002.986
-0.027	2458.210
-0.032	2949.852

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
13.53	18.00	12.00	40.00	-2.60E-04	1.46E+02	0.88	0.50	-8.94E+00

Y IN	P LBS/IN
0.000	0.000
0.000	-0.199
0.000	-0.397
0.000	-0.755
0.000	-1.112
0.000	-1.470
0.000	-1.827

0.000	-2.184
0.000	-2.542
0.000	-2.899
0.000	-3.257
0.000	-3.614
0.000	-5.077
0.000	-5.627
0.000	-7.281
0.000	-8.936
0.000	-10.724

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
27.53	18.00	12.00	40.00	3.52E-02	1.46E+02	0.88	0.50	2.46E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	54.736
-0.001	109.471
-0.002	207.995
-0.003	306.519
-0.005	405.043
-0.006	503.568
-0.007	602.092
-0.008	700.616
-0.009	799.140
-0.010	897.664
-0.011	996.188

-0.012	1094.712
-0.017	1550.842
-0.022	2006.972
-0.027	2463.102
-0.033	2955.723

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
14.15	18.00	12.00	40.00	-1.11E-04	1.46E+02	0.88	0.50	-3.98E+00

Y IN	P LBS/IN
0.000	0.000
0.000	-0.088
0.000	-0.177
0.000	-0.336
0.000	-0.495
0.000	-0.654
0.000	-0.813
0.000	-0.972
0.000	-1.131
0.000	-1.291
0.000	-1.450
0.000	-1.609
0.000	-2.260
0.000	-2.504
0.000	-3.241
0.000	-3.978
0.000	-4.773

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
28.15	18.00	12.00	40.00	3.45E-02	1.46E+02	0.88	0.50	2.47E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	54.846
-0.001	109.692
-0.002	208.414
-0.003	307.136
-0.005	405.859
-0.006	504.581
-0.007	603.304
-0.008	702.026
-0.009	800.749
-0.010	899.471
-0.011	998.194
-0.012	1096.916
-0.018	1553.964
-0.023	2011.013
-0.028	2468.061
-0.034	2961.673

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN
14.78	18.00	12.00	40.00	2.61E-05	1.46E+02	0.88	0.50	9.81E-01

Y	P
IN	LBS/IN
0.000	0.000
-0.000	0.022
-0.000	0.044
-0.000	0.083
-0.000	0.122
-0.000	0.161
-0.000	0.201
-0.000	0.240
-0.000	0.279
-0.000	0.318
-0.000	0.358
-0.000	0.397
-0.000	0.436
-0.000	0.618
-0.000	0.800
-0.000	0.981
-0.000	1.177

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	PHI	GAMMA AVG	KPY	A	B	PC
FT	IN	IN		LBS/IN**3	LBS/IN**3			LB /IN

28.78 18.00 12.00 40.00 3.38E-02 1.46E+02 0.88 0.50 2.47E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	54.956
-0.001	109.912
-0.002	208.833
-0.004	307.754
-0.005	406.674
-0.006	505.595
-0.007	604.516
-0.008	703.437
-0.009	802.358
-0.010	901.278
-0.012	1000.199
-0.013	1099.120
-0.018	1557.087
-0.023	2015.053
-0.029	2473.020
-0.034	2967.624

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
15.39	18.00	12.00	40.00	1.50E-04	1.46E+02	0.88	0.50	5.87E+00

Y IN	P LBS/IN
0.000	0.000

-0.000	0.131
-0.000	0.261
-0.000	0.496
-0.000	0.731
-0.000	0.966
-0.000	1.201
-0.000	1.436
-0.000	1.671
-0.000	1.906
-0.000	2.141
-0.000	2.376
-0.000	2.611
-0.000	3.698
-0.000	4.786
-0.000	5.874
-0.000	7.049

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	PHI	GAMMA AVG LBS/IN**3	KPY LBS/IN**3	A	B	PC LB /IN
29.39	18.00	12.00	40.00	3.32E-02	1.46E+02	0.88	0.50	2.48E+03

Y IN	P LBS/IN
0.000	0.000
-0.001	55.065
-0.001	110.129
-0.002	209.246
-0.004	308.362
-0.005	407.479

-0.006	506.595
-0.007	605.712
-0.008	704.828
-0.009	803.945
-0.011	903.061
-0.012	1002.178
-0.013	1101.294
-0.018	1560.167
-0.024	2019.040
-0.029	2477.913
-0.035	2973.495

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
15.41	18.000	12.00	2.01E+01	2.01E+01	1.52E-04	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	40.79815
0.00012	61.00746
0.00024	72.55050
0.00120	108.48831
0.00240	129.01506
0.01200	192.92252
0.02400	229.42483
0.06000	288.48645
0.12000	343.07014
0.18000	379.66953

0.24000	407.98145
0.60000	513.00952
1.20000	610.07457
2.40000	725.50502
2.70000	725.50502
3.00000	725.50502

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
29.41	18.000	12.00	2.01E+01	2.01E+01	3.31E-02	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	52.60731
0.00012	78.66628
0.00024	93.55050
0.00120	139.89063
0.00240	166.35893
0.01200	248.76462
0.02400	295.83266
0.06000	371.98988
0.12000	442.37301
0.18000	489.56622
0.24000	526.07313
0.60000	661.50194
1.20000	786.66281
2.40000	935.50502
2.70000	935.50502

3.00000 935.50502

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
16.80	18.000	12.00	2.01E+01	2.01E+01	1.58E-04	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	40.80198
0.00012	61.01319
0.00024	72.55732
0.00120	108.49850
0.00240	129.02719
0.01200	192.94065
0.02400	229.44639
0.06000	288.51357
0.12000	343.10239
0.18000	379.70521
0.24000	408.01980
0.60000	513.05774
1.20000	610.13191
2.40000	725.57321
2.70000	725.57321
3.00000	725.57321

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
30.80	18.000	12.00	2.01E+01	2.01E+01	3.17E-02	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	52.61115
0.00012	78.67202
0.00024	93.55732
0.00120	139.90083
0.00240	166.37106
0.01200	248.78276
0.02400	295.85422
0.06000	372.01699
0.12000	442.40526
0.18000	489.60190
0.24000	526.11148
0.60000	661.55016
1.20000	786.72016
2.40000	935.57321
2.70000	935.57321
3.00000	935.57321

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
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FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
18.20	18.000	12.00	2.01E+01	2.01E+01	1.63E-04	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	40.80584
0.00012	61.01896
0.00024	72.56418
0.00120	108.50876
0.00240	129.03939
0.01200	192.95889
0.02400	229.46809
0.06000	288.54085
0.12000	343.13483
0.18000	379.74111
0.24000	408.05838
0.60000	513.10624
1.20000	610.18960
2.40000	725.64181
2.70000	725.64181
3.00000	725.64181

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
32.20	18.000	12.00	2.01E+01	2.01E+01	3.03E-02	5.0000E-03

Y	P
IN	LBS/IN

0.00000	0.00000
0.00002	52.61501
0.00012	78.67778
0.00024	93.56418
0.00120	139.91109
0.00240	166.38326
0.01200	248.80100
0.02400	295.87592
0.06000	372.04427
0.12000	442.43770
0.18000	489.63780
0.24000	526.15006
0.60000	661.59867
1.20000	786.77784
2.40000	935.64181
2.70000	935.64181
3.00000	935.64181

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
19.60	18.000	12.00	2.01E+01	2.01E+01	1.68E-04	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	40.80970
0.00012	61.02473
0.00024	72.57104
0.00120	108.51902

0.00240	129.05159
0.01200	192.97713
0.02400	229.48978
0.06000	288.56812
0.12000	343.16727
0.18000	379.77701
0.24000	408.09696
0.60000	513.15475
1.20000	610.24728
2.40000	725.71041
2.70000	725.71041
3.00000	725.71041

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
33.60	18.000	12.00	2.01E+01	2.01E+01	2.90E-02	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	52.61886
0.00012	78.68355
0.00024	93.57104
0.00120	139.92134
0.00240	166.39546
0.01200	248.81924
0.02400	295.89761
0.06000	372.07155
0.12000	442.47014

0.18000	489.67370
0.24000	526.18863
0.60000	661.64718
1.20000	786.83553
2.40000	935.71041
2.70000	935.71041
3.00000	935.71041

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE EXCAVATION SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS FT	DIAM IN	RDIAM IN	C LBS/IN**2	CAVG LBS/IN**2	GAMMA AVG LBS/IN**3	E50
20.99	18.000	12.00	2.01E+01	2.01E+01	1.72E-04	5.0000E-03

Y IN	P LBS/IN
0.00000	0.00000
0.00002	40.81353
0.00012	61.03046
0.00024	72.57786
0.00120	108.52922
0.00240	129.06372
0.01200	192.99527
0.02400	229.51134
0.06000	288.59524
0.12000	343.19951
0.18000	379.81270
0.24000	408.13530
0.60000	513.20297
1.20000	610.30463
2.40000	725.77860

2.70000	725.77860
3.00000	725.77860

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

AT THE BACKFILL SIDE

CONTINUOUS WALL MODEL, WA/WP = 1.00

DEPTH BELOW GS	DIAM	RDIAM	C	CAVG	GAMMA AVG	E50
FT	IN	IN	LBS/IN**2	LBS/IN**2	LBS/IN**3	
34.99	18.000	12.00	2.01E+01	2.01E+01	2.79E-02	5.0000E-03

Y	P
IN	LBS/IN
0.00000	0.00000
0.00002	52.62270
0.00012	78.68929
0.00024	93.57786
0.00120	139.93154
0.00240	166.40758
0.01200	248.83737
0.02400	295.91917
0.06000	372.09867
0.12000	442.50238
0.18000	489.70939
0.24000	526.22698
0.60000	661.69539
1.20000	786.89287
2.40000	935.77860
2.70000	935.77860
3.00000	935.77860

P-Multiplier = 1.000E+00 Y-Multiplier = 1.000E+00

Hiiliard Cemetery Rear Abutment, Boring B-010-0-23

RESULTS

NUMBER OF ITERATIONS : 48

***** ANALYSIS COMPLETED *****

STA I	X FT	DEFL. IN	SLOPE RAD	MOMENT LBS-IN	SHEAR LBS	SOIL_REACT LBS/IN	NET_FORCE/STA LBS	EI LBS-IN**2
-----	-----	-----	-----	-----	-----	-----	-----	-----
0	0.000E+00	2.137E+00	-1.065E-02	-2.017E-07	0.000E+00	0.000E+00	4.803E-08	8.013E+09
1	3.500E-01	2.092E+00	-1.065E-02	-2.017E-07	5.596E+00	0.000E+00	1.119E+01	8.013E+09
2	7.000E-01	2.048E+00	-1.065E-02	4.701E+01	2.238E+01	0.000E+00	2.238E+01	8.013E+09
3	1.050E+00	2.003E+00	-1.065E-02	1.880E+02	5.036E+01	0.000E+00	3.358E+01	8.013E+09
4	1.400E+00	1.958E+00	-1.065E-02	4.701E+02	8.953E+01	0.000E+00	4.477E+01	8.013E+09
5	1.750E+00	1.913E+00	-1.065E-02	9.401E+02	1.399E+02	0.000E+00	5.596E+01	8.013E+09
6	2.100E+00	1.869E+00	-1.065E-02	1.645E+03	2.015E+02	0.000E+00	6.715E+01	8.013E+09
7	2.450E+00	1.824E+00	-1.065E-02	2.632E+03	2.742E+02	0.000E+00	7.834E+01	8.013E+09
8	2.800E+00	1.779E+00	-1.065E-02	3.948E+03	3.581E+02	0.000E+00	8.953E+01	8.013E+09
9	3.150E+00	1.734E+00	-1.065E-02	5.641E+03	4.533E+02	0.000E+00	1.007E+02	8.013E+09
10	3.500E+00	1.690E+00	-1.064E-02	7.756E+03	5.596E+02	0.000E+00	1.119E+02	8.013E+09
11	3.850E+00	1.645E+00	-1.064E-02	1.034E+04	6.771E+02	0.000E+00	1.231E+02	8.013E+09
12	4.200E+00	1.600E+00	-1.063E-02	1.344E+04	8.058E+02	0.000E+00	1.343E+02	8.013E+09
13	4.550E+00	1.556E+00	-1.062E-02	1.711E+04	9.457E+02	0.000E+00	1.455E+02	8.013E+09
14	4.900E+00	1.511E+00	-1.061E-02	2.139E+04	1.097E+03	0.000E+00	1.567E+02	8.013E+09
15	5.250E+00	1.467E+00	-1.060E-02	2.632E+04	1.259E+03	0.000E+00	1.679E+02	8.013E+09
16	5.600E+00	1.422E+00	-1.059E-02	3.196E+04	1.433E+03	0.000E+00	1.791E+02	8.013E+09
17	5.950E+00	1.378E+00	-1.057E-02	3.836E+04	1.617E+03	0.000E+00	1.903E+02	8.013E+09
18	6.300E+00	1.333E+00	-1.055E-02	4.555E+04	1.813E+03	0.000E+00	2.015E+02	8.013E+09
19	6.650E+00	1.289E+00	-1.052E-02	5.359E+04	2.020E+03	0.000E+00	2.126E+02	8.013E+09
20	7.000E+00	1.245E+00	-1.049E-02	6.252E+04	2.238E+03	0.000E+00	2.238E+02	8.013E+09
21	7.350E+00	1.201E+00	-1.045E-02	7.239E+04	2.468E+03	0.000E+00	2.350E+02	8.013E+09
22	7.700E+00	1.157E+00	-1.041E-02	8.325E+04	2.708E+03	0.000E+00	2.462E+02	8.013E+09
23	8.050E+00	1.113E+00	-1.037E-02	9.514E+04	2.960E+03	0.000E+00	2.574E+02	8.013E+09

24	8.400E+00	1.070E+00	-1.031E-02	1.081E+05	3.223E+03	0.000E+00	2.686E+02	8.013E+09
25	8.750E+00	1.027E+00	-1.025E-02	1.222E+05	3.497E+03	0.000E+00	2.798E+02	8.013E+09
26	9.100E+00	9.839E-01	-1.018E-02	1.375E+05	3.783E+03	0.000E+00	2.910E+02	8.013E+09
27	9.450E+00	9.413E-01	-1.011E-02	1.540E+05	4.079E+03	0.000E+00	3.022E+02	8.013E+09
28	9.800E+00	8.990E-01	-1.002E-02	1.718E+05	4.387E+03	0.000E+00	3.134E+02	8.013E+09
29	1.015E+01	8.571E-01	-9.927E-03	1.908E+05	4.706E+03	0.000E+00	3.246E+02	8.013E+09
30	1.050E+01	8.156E-01	-9.822E-03	2.113E+05	5.036E+03	0.000E+00	3.358E+02	8.013E+09
31	1.085E+01	7.746E-01	-9.705E-03	2.331E+05	5.378E+03	0.000E+00	3.469E+02	8.013E+09
32	1.120E+01	7.341E-01	-9.577E-03	2.565E+05	5.730E+03	0.000E+00	3.581E+02	8.013E+09
33	1.155E+01	6.941E-01	-9.436E-03	2.813E+05	6.094E+03	0.000E+00	3.693E+02	8.013E+09
34	1.190E+01	6.548E-01	-9.282E-03	3.077E+05	6.469E+03	0.000E+00	3.805E+02	8.013E+09
35	1.225E+01	6.162E-01	-9.113E-03	3.356E+05	6.855E+03	0.000E+00	3.917E+02	8.013E+09
36	1.260E+01	5.783E-01	-8.930E-03	3.652E+05	7.252E+03	0.000E+00	4.029E+02	8.013E+09
37	1.295E+01	5.412E-01	-8.730E-03	3.965E+05	7.661E+03	0.000E+00	4.141E+02	8.013E+09
38	1.330E+01	5.049E-01	-8.513E-03	4.296E+05	8.080E+03	0.000E+00	4.253E+02	8.013E+09
39	1.365E+01	4.696E-01	-8.279E-03	4.644E+05	8.511E+03	0.000E+00	4.365E+02	8.013E+09
40	1.400E+01	4.354E-01	-8.026E-03	5.011E+05	8.721E+03	-2.216E+02	-1.770E+01	8.013E+09
41	1.435E+01	4.022E-01	-7.754E-03	5.377E+05	8.254E+03	-2.179E+02	-9.151E+02	8.013E+09
42	1.470E+01	3.703E-01	-7.463E-03	5.704E+05	7.347E+03	-2.143E+02	-9.000E+02	8.013E+09
43	1.505E+01	3.395E-01	-7.157E-03	5.994E+05	6.454E+03	-2.109E+02	-8.857E+02	8.013E+09
44	1.540E+01	3.101E-01	-6.836E-03	6.246E+05	5.579E+03	-2.059E+02	-8.648E+02	8.013E+09
45	1.575E+01	2.821E-01	-6.503E-03	6.462E+05	4.724E+03	-2.009E+02	-8.439E+02	8.013E+09
46	1.610E+01	2.555E-01	-6.159E-03	6.643E+05	3.890E+03	-1.962E+02	-8.241E+02	8.013E+09
47	1.645E+01	2.304E-01	-5.807E-03	6.789E+05	3.078E+03	-1.906E+02	-8.007E+02	8.013E+09
48	1.680E+01	2.067E-01	-5.449E-03	6.902E+05	2.289E+03	-1.852E+02	-7.779E+02	8.013E+09
49	1.715E+01	1.846E-01	-5.085E-03	6.981E+05	1.469E+03	-2.049E+02	-8.605E+02	8.013E+09
50	1.750E+01	1.640E-01	-4.718E-03	7.025E+05	5.715E+02	-2.227E+02	-9.354E+02	8.013E+09
51	1.785E+01	1.450E-01	-4.349E-03	7.029E+05	-3.967E+02	-2.383E+02	-1.001E+03	8.013E+09
52	1.820E+01	1.275E-01	-3.982E-03	6.992E+05	-1.430E+03	-2.535E+02	-1.065E+03	8.013E+09
53	1.855E+01	1.115E-01	-3.618E-03	6.909E+05	-2.521E+03	-2.664E+02	-1.119E+03	8.013E+09
54	1.890E+01	9.709E-02	-3.259E-03	6.780E+05	-3.662E+03	-2.769E+02	-1.163E+03	8.013E+09
55	1.925E+01	8.415E-02	-2.908E-03	6.602E+05	-4.804E+03	-2.668E+02	-1.120E+03	8.013E+09
56	1.960E+01	7.267E-02	-2.568E-03	6.376E+05	-5.906E+03	-2.578E+02	-1.083E+03	8.013E+09
57	1.995E+01	6.258E-02	-2.241E-03	6.106E+05	-6.972E+03	-2.499E+02	-1.050E+03	8.013E+09
58	2.030E+01	5.384E-02	-1.929E-03	5.791E+05	-7.999E+03	-2.392E+02	-1.005E+03	8.013E+09
59	2.065E+01	4.638E-02	-1.635E-03	5.434E+05	-8.982E+03	-2.287E+02	-9.606E+02	8.013E+09

Max moment = 702,900 lb-in
 Factored stress = $(702,900 \text{ lb-in})(12"/2)/(276.3 \text{ in}^4) = 15,300 \text{ psi}$
 Allowable = $(0.9)(50,000 \text{ psi}) = 45,000 \text{ psi}$
 OK

60	2.100E+01	4.011E-02	-1.360E-03	5.036E+05	-9.924E+03	-2.199E+02	-9.236E+02	8.013E+09
61	2.135E+01	3.495E-02	-1.108E-03	4.600E+05	-1.083E+04	-2.126E+02	-8.931E+02	8.013E+09
62	2.170E+01	3.081E-02	-8.791E-04	4.126E+05	-1.171E+04	-2.068E+02	-8.685E+02	8.013E+09
63	2.205E+01	2.757E-02	-6.762E-04	3.616E+05	-1.257E+04	-2.022E+02	-8.494E+02	8.013E+09
64	2.240E+01	2.513E-02	-5.009E-04	3.070E+05	-1.341E+04	-1.988E+02	-8.349E+02	8.013E+09
65	2.275E+01	2.336E-02	-3.552E-04	2.489E+05	-1.424E+04	-1.955E+02	-8.212E+02	8.013E+09
66	2.310E+01	2.214E-02	-2.409E-04	1.874E+05	-1.506E+04	-1.923E+02	-8.079E+02	8.013E+09
67	2.345E+01	2.134E-02	-1.596E-04	1.225E+05	-1.586E+04	-1.902E+02	-7.990E+02	8.013E+09
68	2.380E+01	2.080E-02	-1.133E-04	5.418E+04	-1.666E+04	-1.888E+02	-7.932E+02	8.013E+09
69	2.415E+01	2.039E-02	-1.037E-04	-1.744E+04	-1.745E+04	-1.878E+02	-7.886E+02	8.013E+09
70	2.450E+01	1.993E-02	-1.325E-04	-9.237E+04	-1.807E+04	-1.866E+02	-4.607E+02	8.013E+09
71	2.485E+01	1.927E-02	-2.011E-04	-1.692E+05	-1.634E+04	8.567E+02	3.921E+03	8.013E+09
72	2.520E+01	1.824E-02	-3.056E-04	-2.296E+05	-1.045E+04	1.797E+03	7.870E+03	8.013E+09
73	2.555E+01	1.671E-02	-4.331E-04	-2.570E+05	-2.945E+03	1.621E+03	7.133E+03	8.013E+09
74	2.590E+01	1.460E-02	-5.672E-04	-2.544E+05	3.736E+03	1.406E+03	6.230E+03	8.013E+09
75	2.625E+01	1.194E-02	-6.930E-04	-2.256E+05	9.409E+03	1.141E+03	5.116E+03	8.013E+09
76	2.660E+01	8.782E-03	-7.980E-04	-1.753E+05	1.388E+04	8.323E+02	3.819E+03	8.013E+09
77	2.695E+01	5.238E-03	-8.726E-04	-1.090E+05	1.698E+04	4.917E+02	2.379E+03	8.013E+09
78	2.730E+01	1.453E-03	-9.097E-04	-3.275E+04	1.859E+04	1.304E+02	8.562E+02	8.013E+09
79	2.765E+01	-2.404E-03	-9.060E-04	4.714E+04	1.871E+04	-2.219E+02	-6.233E+02	8.013E+09
80	2.800E+01	-6.157E-03	-8.610E-04	1.244E+05	1.741E+04	-5.460E+02	-1.985E+03	8.013E+09
81	2.835E+01	-9.637E-03	-7.777E-04	1.933E+05	1.479E+04	-8.473E+02	-3.250E+03	8.013E+09
82	2.870E+01	-1.269E-02	-6.619E-04	2.486E+05	1.099E+04	-1.106E+03	-4.339E+03	8.013E+09
83	2.905E+01	-1.520E-02	-5.219E-04	2.857E+05	6.239E+03	-1.304E+03	-5.170E+03	8.013E+09
84	2.940E+01	-1.707E-02	-3.681E-04	3.010E+05	7.761E+02	-1.444E+03	-5.757E+03	8.013E+09
85	2.975E+01	-1.829E-02	-2.126E-04	2.922E+05	-4.396E+03	-1.092E+03	-4.586E+03	8.013E+09
86	3.010E+01	-1.886E-02	-6.679E-05	2.641E+05	-8.075E+03	-6.599E+02	-2.772E+03	8.013E+09
87	3.045E+01	-1.885E-02	6.124E-05	2.244E+05	-9.863E+03	-1.919E+02	-8.060E+02	8.013E+09
88	3.080E+01	-1.835E-02	1.676E-04	1.813E+05	-9.692E+03	2.737E+02	1.150E+03	8.013E+09
89	3.115E+01	-1.744E-02	2.525E-04	1.430E+05	-8.549E+03	2.702E+02	1.135E+03	8.013E+09
90	3.150E+01	-1.622E-02	3.187E-04	1.095E+05	-7.425E+03	2.654E+02	1.115E+03	8.013E+09
91	3.185E+01	-1.477E-02	3.685E-04	8.061E+04	-6.322E+03	2.597E+02	1.091E+03	8.013E+09
92	3.220E+01	-1.313E-02	4.044E-04	5.634E+04	-5.245E+03	2.532E+02	1.064E+03	8.013E+09
93	3.255E+01	-1.137E-02	4.287E-04	3.655E+04	-4.202E+03	2.434E+02	1.022E+03	8.013E+09
94	3.290E+01	-9.527E-03	4.438E-04	2.104E+04	-3.213E+03	2.276E+02	9.558E+02	8.013E+09
95	3.325E+01	-7.640E-03	4.519E-04	9.556E+03	-2.292E+03	2.114E+02	8.878E+02	8.013E+09

96	3.360E+01	-5.732E-03	4.548E-04	1.796E+03	-1.438E+03	1.950E+02	8.190E+02	8.013E+09
97	3.395E+01	-3.819E-03	4.546E-04	-2.525E+03	-6.537E+02	1.786E+02	7.500E+02	8.013E+09
98	3.430E+01	-1.913E-03	4.530E-04	-3.695E+03	4.820E+01	1.557E+02	6.537E+02	8.013E+09
99	3.465E+01	-1.408E-05	4.515E-04	-2.120E+03	4.399E+02	3.944E+01	1.297E+02	8.013E+09
100	3.500E+01	1.880E-03	4.509E-04	-1.970E-10	2.524E+02	-1.201E+02	-5.047E+02	8.013E+09

END OF ANALYSIS