



**HDR Engineering, Inc.**  
**Earthwork Stage IV**  
**F0362 Airport Road**

**Shrink 15%**  
**Ground Compaction 6 in**

ROADWAY EARTHWORK	CUBIC YARDS	
	Excavation	Embankment
I-17 Median	707 CY	6 CY
JW Powell & Exst JWP Powell	1,734 CY	554 CY
Remove Roundabout Center Island Grading	259 CY	0 CY
Construct Detour	169 CY	16 CY
Deletions from Excavation	484 CY	
Additions to Embankment		68 CY

**Roadway Subtotal:** 2,385 CY      644 CY

Ground Compaction		891 CY
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**Roadway Totals:** 2,385 CY      1,535 CY

FOR INFORMATION ONLY

STRUCTURAL EARTHWORK	CUBIC YARDS	
	Excavation	Embankment
Structure Excavation	245 CY	
Structure Backfill		125 CY

**Structural Sub Totals:** 245 CY      125 CY

**Shrink:** 37 CY

**Structural Totals:** 208 CY      125 CY

FOR INFORMATION ONLY

MISCELLANEOUS EARTHWORK	CUBIC YARDS	
	Excavation	Embankment
Remove Detour	16 CY	169 CY
Final Roundabout Center Island Grading	0 CY	275 CY

**Miscellaneous Sub Totals:** 16 CY      444 CY

**Shrink:** 3 CY

**Miscellaneous Totals:** 13 CY      444 CY

*Lee T. Busenbark*





	Initial	
	Excavation	Embankment
<b>SubTotal (Roadway + Miscellaneous):</b>	<b>2,385 CY</b>	<b>1,979 CY</b>
<b>Initial Total (Str Total + Misc Total):</b>	<b>221 CY</b>	
<b>Initial Net Quantity (Initial Emb - Initial Ex):</b>		<b>1,758 CY</b>
<b>Calculation Factor (1 plus (-0.15) (15% shrink)):</b>	<b>0.85</b>	
<b>Required Ex for Emb (Initial Net Qty / Calc Factor (0.85)):</b>	<b>2,069 CY</b>	
<b>Roadway Ex Shrink (Required Ex for Emb x 0.15):</b>	<b>311 CY</b>	
<b>Waste (Sub Total - Shrink):</b>	<b>316 CY</b>	

Final for Design Data Sheet		
	CUBIC YARDS	
	Excavation	Embankment
<b>Roadway</b>	2,385 CY	
<b>Roadway Ex Shrink (Required Ex for Emb x 0.15):</b>		311 CY
<b>Structural Sub Totals:</b>	245 CY	
<b>Shrink:</b>		37 CY
<b>Miscellaneous Totals:</b>	16 CY	
<b>Shrink:</b>		3 CY
<b>Embankment (Incl Gnd Comp):</b>		1,535 CY
<b>Embankment (Miscellaneous)</b>		444 CY
<b>Waste:</b>		316 CY
<b>Sub Total:</b>	<b>2,646 CY</b>	<b>2,646 CY</b>
<b>Final Net Quantity (Sub Total Ex-Emb):</b>		<b>0 CY</b>



Project: F0362 Airport Road

Computed by: LB 10.23.2023

Subject: Earthwork Report

Checked by: TS Date: 7.29.2023

Task: PSnE

Workbook: F0362\_RD\_Rpt\_PSnE\_Qty\_Earthwork-V0.xlsx

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**Deletions from Excavation**

**TOTAL = 484 CY**

Assumptions:

**Removal of Pavement**

	Area	Depth	Depth	Volume	Qty
Asphalt Concrete	2,910 yd <sup>2</sup>	4.0 in	0.12 yd	350 yd <sup>3</sup>	350 yd <sup>3</sup>
Concrete Truck Apron	140 yd <sup>2</sup>	10.0 in	0.28 yd	40 yd <sup>3</sup>	40 yd <sup>3</sup>
				<b>ITEM TOTAL</b>	<b>390 yd<sup>3</sup></b>

**Removal of Curb & Gutter & Concrete Curb**

	Length	Area	Volume	Qty
Concrete Single Curb	250.0 ft	1.50 ft <sup>2</sup>	375.00 ft <sup>3</sup>	14 yd <sup>3</sup>
Concrete Curb & Gutter	496.0 ft	1.93 ft <sup>2</sup>	957.28 ft <sup>3</sup>	36 yd <sup>3</sup>
			<b>ITEM TOTAL</b>	<b>50 yd<sup>3</sup></b>

**Removal of Concrete Sideways & Slabs**

	Area	Depth	Volume	Qty
Sidewalk	2,626 ft <sup>2</sup>	4.0 in	875.34 ft <sup>3</sup>	33 yd <sup>3</sup>
Median Paving	890 ft <sup>2</sup>	4.0 in	296.67 ft <sup>3</sup>	11 yd <sup>3</sup>
			<b>ITEM TOTAL</b>	<b>44 yd<sup>3</sup></b>

**TOTAL 484 yd<sup>3</sup>**  
**USE 484 yd<sup>3</sup>**



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**Additions to Embankment**

**TOTAL = 68 CY**

Assumptions:

**Removal of Pavement**

Asphalt Concrete

Area	Depth	Depth	Volume	Qty
608 yd <sup>2</sup>	4.0 in	0.11 yd	68 yd <sup>3</sup>	68 yd <sup>3</sup>

**ITEM TOTAL 68 yd<sup>3</sup>**

**TOTAL 68 yd<sup>3</sup>**

**USE 68 yd<sup>3</sup>**



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**Roundabout Center Island Regrading**

**TOTAL = 259 CY**

**Assumptions:**

This is the removal of the roundabout center island from the back of exst single curb to create new a "level" surface for detour construction and ultimately final center island grading.

Volume is from the back of the single A-1 curb.

Volumes evaluated using surface to surface measurement

All volumes are rounded to nearest Cubic Yard

<b>Remove Roundabout Center Island Grading</b>					
	<b>Cut</b>	<b>Fill</b>	<b>Cut</b>	<b>Fill</b>	<b>Excavation</b>
<b>Remove Center Island</b>	6,974.0 ft <sup>3</sup>	0.0 ft <sup>3</sup>	259.0 yd <sup>3</sup>	0.0 yd <sup>3</sup>	259 yd <sup>3</sup>
					<b>ITEM TOTAL 259 yd<sup>3</sup></b>
					<b>TOTAL 259 yd<sup>3</sup></b>
					<b>USE 259 yd<sup>3</sup></b>



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**Roundabout Center Island Regrading**

<b>TOTAL =</b>	<b>275</b>	<b>CY</b>
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**Assumptions:**

The detour has been removed and the volume shown is the delta between the original and the new grading.  
 The entire center of the island is regraded due to detour and geometry changes.  
 Volume is from the back of the single A-1 curb.  
 Volumes evaluated using surface to surface measurement  
 All volumes are rounded to nearest Cubic Yard

	<b>Center Island Grading Surface</b>				
	<b>Cut</b>	<b>Fill</b>	<b>Cut</b>	<b>Fill</b>	<b>Borrow</b>
<b>Remove Detour Surface</b>	0.0 ft <sup>3</sup>	7,417.6 ft <sup>3</sup>	0.0 yd <sup>3</sup>	275.0 yd <sup>3</sup>	275 yd <sup>3</sup>
				<b>ITEM TOTAL</b>	<b>275 yd<sup>3</sup></b>
				<b>TOTAL</b>	<b>275 yd<sup>3</sup></b>
				<b>USE</b>	<b>275 yd<sup>3</sup></b>



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**Detour Removal**

Pay Item No.

<b>TOTAL EX=</b>	<b>16</b>	<b>CY</b>
<b>TOTAL EMB=</b>	<b>169</b>	<b>CY</b>

**Assumptions:**

Remove detour shall involve restoring original finished grade along Ramp C and D.

Remove detour in roundabout center shall restore the grade to the same elevation as the back of single curb.

Excavation limits in the roundabout center the detour Cut limits are not included

Volumes based on detour construction

All volumes are rounded to nearest Cubic Yard

**Remove Detour**

<b>Ex</b>	<b>Emb</b>
16.0 yd <sup>3</sup>	169.0 yd <sup>3</sup>

<b>EXCAVATION TOTAL</b>	<b>16 yd<sup>3</sup></b>	
<b>EMBANKMENT TOTAL</b>		<b>169 yd<sup>3</sup></b>



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**Ground Compaction**

**TOTAL = 891 CY**

Assumptions: Ground Compaction .5 ft 6.0 in

	Sta	Sta	Area	Depth	Volume	Qty
JWP	17+00	18+81	2,983 ft <sup>2</sup>	6.0 in	1,492 ft <sup>3</sup>	56 yd <sup>3</sup>
JWP	17+00	18+81	8,670 ft <sup>2</sup>	6.0 in	4,335 ft <sup>3</sup>	161 yd <sup>3</sup>
JWP	21+26	24+45	6,792 ft <sup>2</sup>	6.0 in	3,396 ft <sup>3</sup>	126 yd <sup>3</sup>
JWP	21+28	24+38	18,652 ft <sup>2</sup>	6.0 in	9,326 ft <sup>3</sup>	346 yd <sup>3</sup>
JWP	24+65	27+01	4,918 ft <sup>2</sup>	6.0 in	2,459 ft <sup>3</sup>	92 yd <sup>3</sup>
JWP	24+78	27+05	5,935 ft <sup>2</sup>	6.0 in	2,968 ft <sup>3</sup>	110 yd <sup>3</sup>
DETOUR	x	x	2,795 ft <sup>2</sup>	6.0 in	1,398 ft <sup>3</sup>	52 yd <sup>3</sup>

**ITEM TOTAL 891 yd<sup>3</sup>**

**TOTAL 891 yd<sup>3</sup>**

**USE 891 yd<sup>3</sup>**





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Station	Distance	AREA (Sq Ft)		VOLUME (Cu Yd)	
		Excavation	Embankment	Excavation	Embankment
7233+10.00	0.00 ft	23.54 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				13 yd <sup>3</sup>	0 yd <sup>3</sup>
7233+25.00	15.00 ft	23.06 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7233+50.00	25.00 ft	21.45 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				19 yd <sup>3</sup>	0 yd <sup>3</sup>
7233+75.00	25.00 ft	19.51 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				17 yd <sup>3</sup>	0 yd <sup>3</sup>
7234+00.00	25.00 ft	15.54 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				13 yd <sup>3</sup>	1 yd <sup>3</sup>
7234+25.00	25.00 ft	12.29 ft <sup>2</sup>	0.16 ft <sup>2</sup>		
				13 yd <sup>3</sup>	1 yd <sup>3</sup>
7234+50.00	25.00 ft	15.51 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				16 yd <sup>3</sup>	0 yd <sup>3</sup>
7234+75.00	25.00 ft	18.34 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				17 yd <sup>3</sup>	0 yd <sup>3</sup>
7235+00.00	25.00 ft	16.37 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				16 yd <sup>3</sup>	0 yd <sup>3</sup>
7235+25.00	25.00 ft	17.24 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				17 yd <sup>3</sup>	0 yd <sup>3</sup>
7235+50.00	25.00 ft	17.62 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				19 yd <sup>3</sup>	0 yd <sup>3</sup>
7235+75.00	25.00 ft	21.38 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7236+00.00	25.00 ft	21.88 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7236+25.00	25.00 ft	21.85 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7236+50.00	25.00 ft	21.36 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				29 yd <sup>3</sup>	0 yd <sup>3</sup>
7236+75.00	25.00 ft	39.88 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				36 yd <sup>3</sup>	0 yd <sup>3</sup>
7237+00.00	25.00 ft	37.54 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				34 yd <sup>3</sup>	1 yd <sup>3</sup>
7237+25.00	25.00 ft	35.18 ft <sup>2</sup>	0.13 ft <sup>2</sup>		
				18 yd <sup>3</sup>	1 yd <sup>3</sup>
7237+50.00	25.00 ft	3.69 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				20 yd <sup>3</sup>	0 yd <sup>3</sup>
7237+75.00	25.00 ft	37.68 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				38 yd <sup>3</sup>	1 yd <sup>3</sup>
7238+00.00	25.00 ft	44.07 ft <sup>2</sup>	0.23 ft <sup>2</sup>		
				32 yd <sup>3</sup>	1 yd <sup>3</sup>
7238+25.00	25.00 ft	24.32 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7238+50.00	25.00 ft	20.24 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				19 yd <sup>3</sup>	0 yd <sup>3</sup>



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Station	Distance	AREA (Sq Ft)		VOLUME (Cu Yd)	
		Excavation	Embankment	Excavation	Embankment
7238+75.00	25.00 ft	18.96 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				18 yd <sup>3</sup>	0 yd <sup>3</sup>
7239+00.00	25.00 ft	18.80 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				17 yd <sup>3</sup>	0 yd <sup>3</sup>
7239+25.00	25.00 ft	17.88 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				17 yd <sup>3</sup>	0 yd <sup>3</sup>
7239+50.00	25.00 ft	18.40 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				19 yd <sup>3</sup>	0 yd <sup>3</sup>
7239+75.00	25.00 ft	21.42 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	0 yd <sup>3</sup>
7240+00.00	25.00 ft	23.91 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				24 yd <sup>3</sup>	0 yd <sup>3</sup>
7240+25.00	25.00 ft	26.77 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				24 yd <sup>3</sup>	0 yd <sup>3</sup>
7240+50.00	25.00 ft	24.62 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				24 yd <sup>3</sup>	0 yd <sup>3</sup>
7240+75.00	25.00 ft	25.42 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				22 yd <sup>3</sup>	0 yd <sup>3</sup>
7241+00.00	25.00 ft	21.79 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				20 yd <sup>3</sup>	0 yd <sup>3</sup>
7241+25.00	25.00 ft	20.15 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				10 yd <sup>3</sup>	0 yd <sup>3</sup>
7241+50.00	25.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
7241+64.18	14.18 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		

<b>TOTAL</b>	<b>707 yd<sup>3</sup></b>	<b>6 yd<sup>3</sup></b>
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**JW Powell**

Station	Distance	AREA (Sq Ft)		VOLUME (Cu Yd)	
		Excavation	Embankment	Excavation	Embankment
16+25.00	0.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				95 yd <sup>3</sup>	1 yd <sup>3</sup>
17+25.00	100.00 ft	51.13 ft <sup>2</sup>	0.06 ft <sup>2</sup>		
				35 yd <sup>3</sup>	10 yd <sup>3</sup>
17+50.00	25.00 ft	22.66 ft <sup>2</sup>	19.49 ft <sup>2</sup>		
				51 yd <sup>3</sup>	17 yd <sup>3</sup>
17+75.00	25.00 ft	85.66 ft <sup>2</sup>	15.12 ft <sup>2</sup>		
				69 yd <sup>3</sup>	20 yd <sup>3</sup>
18+00.00	25.00 ft	62.91 ft <sup>2</sup>	26.35 ft <sup>2</sup>		
				39 yd <sup>3</sup>	43 yd <sup>3</sup>
18+25.00	25.00 ft	20.43 ft <sup>2</sup>	66.50 ft <sup>2</sup>		
				10 yd <sup>3</sup>	96 yd <sup>3</sup>
18+50.00	25.00 ft	0.00 ft <sup>2</sup>	139.84 ft <sup>2</sup>		
				1 yd <sup>3</sup>	48 yd <sup>3</sup>
18+59.26	9.26 ft	3.01 ft <sup>2</sup>	138.47 ft <sup>2</sup>		
				4 yd <sup>3</sup>	81 yd <sup>3</sup>
18+75.00	15.74 ft	8.13 ft <sup>2</sup>	136.14 ft <sup>2</sup>		
				4 yd <sup>3</sup>	64 yd <sup>3</sup>
19+00.00	25.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
19+50.00	50.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
20+00.00	50.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
20+50.00	50.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
21+00.00	50.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				0 yd <sup>3</sup>	0 yd <sup>3</sup>
21+25.00	25.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				48 yd <sup>3</sup>	22 yd <sup>3</sup>
21+50.00	25.00 ft	103.05 ft <sup>2</sup>	45.96 ft <sup>2</sup>		
				98 yd <sup>3</sup>	35 yd <sup>3</sup>
21+75.00	25.00 ft	106.91 ft <sup>2</sup>	29.10 ft <sup>2</sup>		
				60 yd <sup>3</sup>	14 yd <sup>3</sup>
21+90.17	15.17 ft	106.48 ft <sup>2</sup>	18.41 ft <sup>2</sup>		
				39 yd <sup>3</sup>	6 yd <sup>3</sup>
22+00.00	9.83 ft	106.20 ft <sup>2</sup>	11.47 ft <sup>2</sup>		
				110 yd <sup>3</sup>	7 yd <sup>3</sup>
22+25.00	25.00 ft	130.25 ft <sup>2</sup>	3.19 ft <sup>2</sup>		
				129 yd <sup>3</sup>	2 yd <sup>3</sup>
22+50.00	25.00 ft	147.61 ft <sup>2</sup>	0.41 ft <sup>2</sup>		
				142 yd <sup>3</sup>	1 yd <sup>3</sup>
22+75.00	25.00 ft	157.95 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				141 yd <sup>3</sup>	1 yd <sup>3</sup>
23+00.00	25.00 ft	146.34 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				123 yd <sup>3</sup>	1 yd <sup>3</sup>
23+25.00	25.00 ft	118.47 ft <sup>2</sup>	1.24 ft <sup>2</sup>		
				85 yd <sup>3</sup>	4 yd <sup>3</sup>
23+50.00	25.00 ft	63.02 ft <sup>2</sup>	6.19 ft <sup>2</sup>		
				49 yd <sup>3</sup>	8 yd <sup>3</sup>
23+75.00	25.00 ft	41.50 ft <sup>2</sup>	11.07 ft <sup>2</sup>		
				35 yd <sup>3</sup>	22 yd <sup>3</sup>
24+00.00	25.00 ft	32.91 ft <sup>2</sup>	34.84 ft <sup>2</sup>		
				44 yd <sup>3</sup>	22 yd <sup>3</sup>
24+25.00	25.00 ft	61.77 ft <sup>2</sup>	10.87 ft <sup>2</sup>		
				40 yd <sup>3</sup>	6 yd <sup>3</sup>
24+50.00	25.00 ft	24.40 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				21 yd <sup>3</sup>	1 yd <sup>3</sup>
24+75.00	25.00 ft	20.30 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				38 yd <sup>3</sup>	1 yd <sup>3</sup>



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**JW Powell**

Station	Distance	AREA (Sq Ft)		VOLUME (Cu Yd)	
		Excavation	Embankment	Excavation	Embankment
25+00.00	25.00 ft	60.94 ft <sup>2</sup>	0.88 ft <sup>2</sup>		
				40 yd <sup>3</sup>	4 yd <sup>3</sup>
25+25.00	25.00 ft	24.81 ft <sup>2</sup>	6.64 ft <sup>2</sup>		
Exst Jwp				21 yd <sup>3</sup>	4 yd <sup>3</sup>
25+50.00	25.00 ft	20.00 ft <sup>2</sup>	1.96 ft <sup>2</sup>		
				20 yd <sup>3</sup>	2 yd <sup>3</sup>
25+75.00	25.00 ft	23.13 ft <sup>2</sup>	1.03 ft <sup>2</sup>		
				24 yd <sup>3</sup>	2 yd <sup>3</sup>
26+00.00	25.00 ft	26.95 ft <sup>2</sup>	1.25 ft <sup>2</sup>		
				24 yd <sup>3</sup>	2 yd <sup>3</sup>
26+25.00	25.00 ft	23.80 ft <sup>2</sup>	2.66 ft <sup>2</sup>		
				23 yd <sup>3</sup>	3 yd <sup>3</sup>
26+50.00	25.00 ft	25.44 ft <sup>2</sup>	1.88 ft <sup>2</sup>		
				28 yd <sup>3</sup>	2 yd <sup>3</sup>
26+75.00	25.00 ft	34.71 ft <sup>2</sup>	0.84 ft <sup>2</sup>		
				39 yd <sup>3</sup>	1 yd <sup>3</sup>
27+00.00	25.00 ft	48.29 ft <sup>2</sup>	0.18 ft <sup>2</sup>		
				5 yd <sup>3</sup>	1 yd <sup>3</sup>
27+04.46	4.46 ft	1.58 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				<b>TOTAL</b>	<b>1,734 yd<sup>3</sup></b>
					<b>554 yd<sup>3</sup></b>



Project: F0362 Airport Road  
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**Detour**

Station	Distance	AREA (Sq Ft)		VOLUME (Cu Yd)	
		Excavation	Embankment	Excavation	Embankment
8+00.00	0.00 ft	0.00 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				1 yd <sup>3</sup>	1 yd <sup>3</sup>
8+25.00	25.00 ft	1.56 ft <sup>2</sup>	0.64 ft <sup>2</sup>		
				1 yd <sup>3</sup>	1 yd <sup>3</sup>
8+29.17	4.17 ft	1.57 ft <sup>2</sup>	1.88 ft <sup>2</sup>		
				2 yd <sup>3</sup>	4 yd <sup>3</sup>
8+50.00	20.83 ft	1.61 ft <sup>2</sup>	8.09 ft <sup>2</sup>		
				2 yd <sup>3</sup>	6 yd <sup>3</sup>
8+75.00	25.00 ft	1.97 ft <sup>2</sup>	3.04 ft <sup>2</sup>		
				7 yd <sup>3</sup>	2 yd <sup>3</sup>
8+99.54	24.54 ft	13.37 ft <sup>2</sup>	0.18 ft <sup>2</sup>		
				1 yd <sup>3</sup>	1 yd <sup>3</sup>
9+00.00	0.46 ft	13.59 ft <sup>2</sup>	0.12 ft <sup>2</sup>		
				14 yd <sup>3</sup>	1 yd <sup>3</sup>
9+25.00	25.00 ft	16.11 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				12 yd <sup>3</sup>	0 yd <sup>3</sup>
9+50.00	25.00 ft	8.63 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				18 yd <sup>3</sup>	0 yd <sup>3</sup>
9+75.00	25.00 ft	29.06 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				27 yd <sup>3</sup>	0 yd <sup>3</sup>
10+00.00	25.00 ft	27.24 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				26 yd <sup>3</sup>	0 yd <sup>3</sup>
10+25.00	25.00 ft	26.84 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				18 yd <sup>3</sup>	0 yd <sup>3</sup>
10+50.00	25.00 ft	10.27 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				15 yd <sup>3</sup>	0 yd <sup>3</sup>
10+75.00	25.00 ft	20.93 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				15 yd <sup>3</sup>	0 yd <sup>3</sup>
11+00.00	25.00 ft	10.86 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				7 yd <sup>3</sup>	0 yd <sup>3</sup>
11+25.00	25.00 ft	2.94 ft <sup>2</sup>	0.00 ft <sup>2</sup>		
				3 yd <sup>3</sup>	0 yd <sup>3</sup>
11+45.00	20.00 ft	3.23 ft <sup>2</sup>	0.00 ft <sup>2</sup>		

<b>TOTAL</b>	<b>169 yd<sup>3</sup></b>	<b>16 yd<sup>3</sup></b>
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**Structure Excavation**

**TOTAL = 245 CY**

Assumptions:

**Structure Excavation (Tyler Weninger 8.2.2023)**

Number	Diameter	Area	Length	Volume
				245 yd <sup>3</sup>

**ITEM TOTAL 245 yd<sup>3</sup>**

**TOTAL 245 yd<sup>3</sup>**  
**USE **245 yd<sup>3</sup>****



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**Structure Backfill**

**TOTAL = 125 CY**

Assumptions:

**Structure Excavation (Tyler Weninger 8.2.2023)**

125 yd<sup>3</sup>

**ITEM TOTAL 125 yd<sup>3</sup>**

**TOTAL 125 yd<sup>3</sup>**  
**USE 125 yd<sup>3</sup>**