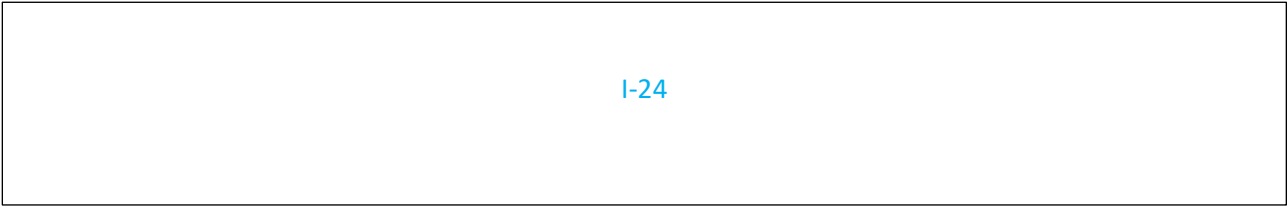


GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 1 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = 15 % SWELL = 15 %	
MAINLINE		2223	6203	1890	EMB. EXC. 5818 VS. -2037 AVAILABLE = 3781 BORROW MATERIAL = 4349 BORROW ROCK = 511	
RAMPS		173	126	148		
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		0	0			
INDEPENDENT DITCHES		0	0			
TEMPORARY CONSTRUCTION EXITS		0	0			
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)		0	0			
TOPSOIL (EMB.)		1338				
TOPSOIL (EXC.)		293				
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	511	4027	5818	4027	2396	2037



Volumes Report

Report Created: Tuesday, May 19, 2026

Time: 11:55:17 PM

Cross Section Set

Name: I-24

Alignment Name: I-24

Input Grid Factor: Note: All units in this report are in feet, square feet and cubic feet unless specified otherwise.

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 2 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ordinate

10300.000 0.000

Existing Pavement

(removed):

77.938 0.000 1.000 0.000 No

Total Existing Pavement: 77.938 0.000 1.000 0.000

10343.050 44.626

Existing Pavement

(removed):

78.127 3359.311 1.000 3359.311 No

Total Existing Pavement: 78.127 3359.311 1.000 3359.311

Volumes - Cut: 2.323 49.998 1.000 49.998 Yes

Volumes - Fill: 0.250 5.372 1.000 5.372 Yes

Milling: 1.200 25.830 1.000 25.830 No

Ditch: 1.859 40.014 1.000 40.014 No

10350.000 85.958

Existing Pavement

(removed):

78.163 543.109 1.000 543.109 No

Total Existing Pavement: 78.163 543.109 1.000 543.109

Volumes - Cut: 9.913 42.520 1.000 42.520 Yes

Volumes - Fill: 0.092 1.188 1.000 1.188 Yes

Milling: 1.200 8.340 1.000 8.340 No

Ditch: 2.667 15.727 1.000 15.727 No

10372.230 628.255

Existing Pavement

(removed):

78.366 1739.820 1.000 1739.820 No

Total Existing Pavement: 78.366 1739.820 1.000 1739.820

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 3 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Cut: 38.969 543.323 1.000 543.323 Yes

Volumes - Fill: 0.000 1.027 1.000 1.027 Yes

Milling: 0.819 22.436 1.000 22.436 No

Volumes Report Page 1 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

HMA Pavement Base 2: 0.966 10.736 1.000 10.736 No

Cut Slope: 7.180 79.802 1.000 79.802 No

HMA Pavement Surface 1: 0.316 3.509 1.000 3.509 No

Base Aggregate Shoulder: 15.036 167.126 1.000 167.126 No

HMA Pavement Base 3: 1.091 12.126 1.000 12.126 No

HMA Pavement Base 1: 0.561 6.231 1.000 6.231 No

Ditch: 0.000 29.642 1.000 29.642 No

10400.000 1233.199

Existing Pavement

(removed):

78.376 2176.364 1.000 2176.364 No

Total Existing Pavement: 78.376 2176.364 1.000 2176.364

Volumes - Cut: 13.558 729.327 1.000 729.327 Yes

Volumes - Fill: 8.958 124.383 1.000 124.383 Yes

Milling: 0.819 22.737 1.000 22.737 No

HMA Pavement Base 2: 1.248 30.742 1.000 30.742 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 4 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 10.006 238.623 1.000 238.623 No

HMA Pavement Surface 1: 0.433 10.399 1.000 10.399 No

Base Aggregate Shoulder: 16.172 433.329 1.000 433.329 No

HMA Pavement Base 3: 1.373 34.213 1.000 34.213 No

HMA Pavement Base 1: 0.749 18.181 1.000 18.181 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.730 107.328 1.000 107.328 No

10450.000 1954.629

Existing Pavement

(removed):

78.439 3920.386 1.000 3920.386 No

Total Existing Pavement: 78.439 3920.386 1.000 3920.386

Volumes - Cut: 27.769 1033.173 1.000 1033.173 Yes

Volumes - Fill: 3.512 311.743 1.000 311.743 Yes

Milling: 0.819 40.946 1.000 40.946 No

HMA Pavement Base 2: 1.756 75.113 1.000 75.113 No

Cut Slope: 14.507 612.827 1.000 612.827 No

HMA Pavement Surface 1: 0.645 26.957 1.000 26.957 No

Base Aggregate Shoulder: 17.936 852.721 1.000 852.721 No

HMA Pavement Base 3: 1.881 81.363 1.000 81.363 No

HMA Pavement Base 1: 1.088 45.909 1.000 45.909 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.074 420.098 1.000 420.098 No

10500.000 4060.767

Existing Pavement

(removed):

78.249 3917.196 1.000 3917.196 No

Volumes Report Page 2 of 40

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 5 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Total Existing Pavement: 78.249 3917.196 1.000 3917.196

Volumes - Cut: 61.748 2237.940 1.000 2237.940 Yes

Volumes - Fill: 1.760 131.802 1.000 131.802 Yes

Milling: 0.815 40.856 1.000 40.856 No

HMA Pavement Base 2: 2.265 100.525 1.000 100.525 No

Cut Slope: 28.200 1067.687 1.000 1067.687 No

HMA Pavement Surface 1: 0.857 37.545 1.000 37.545 No

Base Aggregate Shoulder: 19.547 937.091 1.000 937.091 No

HMA Pavement Base 3: 2.390 106.775 1.000 106.775 No

HMA Pavement Base 1: 1.426 62.852 1.000 62.852 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 12.361 535.868 1.000 535.868 No

10550.000 8332.617

Existing Pavement

(removed):

78.229 3911.936 1.000 3911.936 No

Total Existing Pavement: 78.229 3911.936 1.000 3911.936

Volumes - Cut: 111.586 4333.358 1.000 4333.358 Yes

Volumes - Fill: 0.700 61.508 1.000 61.508 Yes

Milling: 0.803 40.461 1.000 40.461 No

HMA Pavement Base 2: 2.773 125.938 1.000 125.938 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 6 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 36.018 1605.459 1.000 1605.459 No

HMA Pavement Surface 1: 1.069 48.134 1.000 48.134 No

Base Aggregate Shoulder: 21.235 1019.545 1.000 1019.545 No

HMA Pavement Base 3: 2.898 132.188 1.000 132.188 No

HMA Pavement Base 1: 1.765 79.794 1.000 79.794 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 14.943 682.587 1.000 682.587 No

10600.000 13571.848

Existing Pavement

(removed):

78.019 3906.186 1.000 3906.186 No

Total Existing Pavement: 78.019 3906.186 1.000 3906.186

Volumes - Cut: 99.188 5269.352 1.000 5269.352 Yes

Volumes - Fill: 0.505 30.121 1.000 30.121 Yes

Milling: 0.798 40.037 1.000 40.037 No

HMA Pavement Base 2: 3.281 151.351 1.000 151.351 No

Cut Slope: 28.441 1611.485 1.000 1611.485 No

HMA Pavement Surface 1: 1.280 58.723 1.000 58.723 No

Base Aggregate Shoulder: 22.922 1103.916 1.000 1103.916 No

HMA Pavement Base 3: 3.406 157.601 1.000 157.601 No

HMA Pavement Base 1: 2.104 96.736 1.000 96.736 No

Volumes Report Page 3 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 7 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Mass

Ordinate

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 14.222 729.110 1.000 729.110 No

10650.000 17314.673

Existing Pavement

(removed):

78.276 3907.370 1.000 3907.370 No

Total Existing Pavement: 78.276 3907.370 1.000 3907.370

Volumes - Cut: 52.643 3795.771 1.000 3795.771 Yes

Volumes - Fill: 1.613 52.947 1.000 52.947 Yes

Milling: 0.797 39.873 1.000 39.873 No

HMA Pavement Base 2: 3.713 174.862 1.000 174.862 No

Cut Slope: 13.365 1045.171 1.000 1045.171 No

HMA Pavement Surface 1: 1.460 68.519 1.000 68.519 No

Base Aggregate Shoulder: 24.357 1181.973 1.000 1181.973 No

HMA Pavement Base 3: 3.838 181.112 1.000 181.112 No

HMA Pavement Base 1: 2.392 112.410 1.000 112.410 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.165 634.671 1.000 634.671 No

10700.000 18844.502

Existing Pavement

(removed):

78.239 3912.877 1.000 3912.877 No

Total Existing Pavement: 78.239 3912.877 1.000 3912.877

Volumes - Cut: 15.655 1707.447 1.000 1707.447 Yes

Volumes - Fill: 5.492 177.618 1.000 177.618 Yes

Milling: 0.802 39.968 1.000 39.968 No

HMA Pavement Base 2: 3.691 185.119 1.000 185.119 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 8 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 5.001 459.171 1.000 459.171 No
HMA Pavement Surface 1: 1.451 72.793 1.000 72.793 No
Base Aggregate Shoulder: 24.284 1216.026 1.000 1216.026 No
HMA Pavement Base 3: 3.816 191.369 1.000 191.369 No
HMA Pavement Base 1: 2.378 119.249 1.000 119.249 No
Ditch: 0.000 0.000 1.000 0.000 No
Topsoil: 8.920 502.133 1.000 502.133 No
10750.000 19053.318
Existing Pavement
(removed):
78.349 3914.694 1.000 3914.694 No
Total Existing Pavement: 78.349 3914.694 1.000 3914.694
Volumes - Cut: 11.169 670.589 1.000 670.589 Yes
Volumes - Fill: 12.979 461.774 1.000 461.774 Yes
Milling: 0.813 40.373 1.000 40.373 No
Volumes Report Page 4 of 40

Station Type Area Volume Factor
Adjusted
Volume
Included in
Mass
Ordinate?
Mass
Ordinate

HMA Pavement Base 2: 3.669 184.019 1.000 184.019 No
Cut Slope: 0.000 125.035 1.000 125.035 No
HMA Pavement Surface 1: 1.442 72.334 1.000 72.334 No
Base Aggregate Shoulder: 24.214 1212.457 1.000 1212.457 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 9 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 3.794 190.269 1.000 190.269 No

HMA Pavement Base 1: 2.363 118.515 1.000 118.515 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.570 412.245 1.000 412.245 No

10800.000 18869.976

Existing Pavement

(removed):

78.346 3917.366 1.000 3917.366 No

Total Existing Pavement: 78.346 3917.366 1.000 3917.366

Volumes - Cut: 10.250 535.467 1.000 535.467 Yes

Volumes - Fill: 15.773 718.808 1.000 718.808 Yes

Milling: 0.825 40.943 1.000 40.943 No

HMA Pavement Base 2: 3.647 182.915 1.000 182.915 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.433 71.874 1.000 71.874 No

Base Aggregate Shoulder: 24.321 1213.371 1.000 1213.371 No

HMA Pavement Base 3: 3.772 189.165 1.000 189.165 No

HMA Pavement Base 1: 2.348 117.779 1.000 117.779 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 8.476 401.138 1.000 401.138 No

10850.000 18202.541

Existing Pavement

(removed):

78.184 3913.237 1.000 3913.237 No

Total Existing Pavement: 78.184 3913.237 1.000 3913.237

Volumes - Cut: 10.458 517.695 1.000 517.695 Yes

Volumes - Fill: 31.632 1185.130 1.000 1185.130 Yes

Milling: 0.835 41.495 1.000 41.495 No

HMA Pavement Base 2: 3.625 181.810 1.000 181.810 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **10** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.424 71.414 1.000 71.414 No

Base Aggregate Shoulder: 24.280 1215.015 1.000 1215.015 No

HMA Pavement Base 3: 3.750 188.060 1.000 188.060 No

HMA Pavement Base 1: 2.333 117.042 1.000 117.042 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.437 472.806 1.000 472.806 No

10900.000 16847.194

Volumes Report Page 5 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement

(removed):

78.083 3906.660 1.000 3906.660 No

Total Existing Pavement: 78.083 3906.660 1.000 3906.660

Volumes - Cut: 10.184 516.040 1.000 516.040 Yes

Volumes - Fill: 43.224 1871.387 1.000 1871.387 Yes

Milling: 0.846 42.021 1.000 42.021 No

HMA Pavement Base 2: 3.603 180.706 1.000 180.706 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.414 70.954 1.000 70.954 No

Base Aggregate Shoulder: 24.360 1215.988 1.000 1215.988 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 11 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 3.728 186.956 1.000 186.956 No

HMA Pavement Base 1: 2.319 116.306 1.000 116.306 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.015 536.277 1.000 536.277 No

10950.000 15167.292

Existing Pavement

(removed):

78.298 3909.532 1.000 3909.532 No

Total Existing Pavement: 78.298 3909.531 1.000 3909.531

Volumes - Cut: 9.769 498.825 1.000 498.825 Yes

Volumes - Fill: 43.926 2178.727 1.000 2178.727 Yes

Milling: 0.856 42.554 1.000 42.554 No

HMA Pavement Base 2: 3.581 179.601 1.000 179.601 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.405 70.494 1.000 70.494 No

Base Aggregate Shoulder: 23.919 1206.963 1.000 1206.963 No

HMA Pavement Base 3: 3.706 185.851 1.000 185.851 No

HMA Pavement Base 1: 2.304 115.570 1.000 115.570 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.909 548.086 1.000 548.086 No

11000.000 13478.637

Existing Pavement

(removed):

78.629 3923.190 1.000 3923.190 No

Total Existing Pavement: 78.629 3923.190 1.000 3923.190

Volumes - Cut: 10.752 513.031 1.000 513.031 Yes

Volumes - Fill: 44.142 2201.686 1.000 2201.686 Yes

Milling: 0.891 43.679 1.000 43.679 No

HMA Pavement Base 2: 3.481 176.558 1.000 176.558 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **12** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.364 69.225 1.000 69.225 No

Base Aggregate Shoulder: 23.587 1187.639 1.000 1187.639 No

HMA Pavement Base 3: 3.606 182.808 1.000 182.808 No

Volumes Report Page 6 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

HMA Pavement Base 1: 2.238 113.541 1.000 113.541 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.588 537.411 1.000 537.411 No

11050.000 11584.506

Existing Pavement

(removed):

79.574 3955.074 1.000 3955.074 No

Total Existing Pavement: 79.574 3955.074 1.000 3955.074

Volumes - Cut: 7.379 453.289 1.000 453.289 Yes

Volumes - Fill: 49.755 2347.419 1.000 2347.419 Yes

Milling: 0.958 46.232 1.000 46.232 No

HMA Pavement Base 2: 3.318 169.988 1.000 169.988 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.296 66.488 1.000 66.488 No

Base Aggregate Shoulder: 23.045 1165.791 1.000 1165.791 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **13** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 3.443 176.238 1.000 176.238 No

HMA Pavement Base 1: 2.129 109.161 1.000 109.161 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.865 536.317 1.000 536.317 No

11100.000 9120.112

Existing Pavement

(removed):

79.936 3987.753 1.000 3987.753 No

Total Existing Pavement: 79.936 3987.753 1.000 3987.753

Volumes - Cut: 9.036 410.394 1.000 410.394 Yes

Volumes - Fill: 65.237 2874.788 1.000 2874.788 Yes

Milling: 1.025 49.569 1.000 49.569 No

HMA Pavement Base 2: 3.155 161.831 1.000 161.831 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.228 63.089 1.000 63.089 No

Base Aggregate Shoulder: 22.930 1149.376 1.000 1149.376 No

HMA Pavement Base 3: 3.280 168.081 1.000 168.081 No

HMA Pavement Base 1: 2.020 103.723 1.000 103.723 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 12.028 572.338 1.000 572.338 No

11150.000 5840.986

Existing Pavement

(removed):

80.185 4003.043 1.000 4003.043 No

Total Existing Pavement: 80.185 4003.043 1.000 4003.043

Volumes - Cut: 10.274 482.764 1.000 482.764 Yes

Volumes - Fill: 85.239 3761.890 1.000 3761.890 Yes

Volumes Report Page 7 of 40

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **14** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Milling: 1.088 52.826 1.000 52.826 No

HMA Pavement Base 2: 2.992 153.674 1.000 153.674 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.160 59.691 1.000 59.691 No

Base Aggregate Shoulder: 22.370 1132.507 1.000 1132.507 No

HMA Pavement Base 3: 3.117 159.924 1.000 159.924 No

HMA Pavement Base 1: 1.911 98.285 1.000 98.285 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 13.113 628.534 1.000 628.534 No

11172.280 3946.594

Existing Pavement

(removed):

80.982 1795.402 1.000 1795.402 No

Total Existing Pavement: 80.982 1795.402 1.000 1795.402

Volumes - Cut: 17.049 304.381 1.000 304.381 Yes

Volumes - Fill: 112.137 2198.774 1.000 2198.774 Yes

Milling: 1.949 33.840 1.000 33.840 No

HMA Pavement Base 2: 3.803 75.693 1.000 75.693 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.411 28.638 1.000 28.638 No

Base Aggregate Shoulder: 37.049 661.931 1.000 661.931 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 15 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 4.053 79.870 1.000 79.870 No

HMA Pavement Base 1: 2.369 47.678 1.000 47.678 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.481 262.836 1.000 262.836 No

11200.000 308.913

Existing Pavement

(removed):

81.298 2249.199 1.000 2249.199 No

Total Existing Pavement: 81.298 2249.199 1.000 2249.199

Volumes - Cut: 15.857 456.077 1.000 456.077 Yes

Volumes - Fill: 183.227 4093.758 1.000 4093.758 Yes

Milling: 1.944 53.960 1.000 53.960 No

HMA Pavement Base 2: 3.973 107.776 1.000 107.776 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.482 40.094 1.000 40.094 No

Base Aggregate Shoulder: 37.978 1039.869 1.000 1039.869 No

HMA Pavement Base 3: 4.223 114.706 1.000 114.706 No

HMA Pavement Base 1: 2.482 67.232 1.000 67.232 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.854 309.561 1.000 309.561 No

Topsoil (Removed): 12.965 179.694 1.000 179.694 No

Volumes Report Page 8 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **16** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Mass

Ordinate

11202.129 0.000

11250.000 -6947.445

Existing Pavement

(removed):

81.663 4074.018 1.000 4074.018 No

Total Existing Pavement: 81.663 4074.018 1.000 4074.018

Volumes - Cut: 18.264 853.016 1.000 853.016 Yes

Volumes - Fill: 141.147 8109.373 1.000 8109.373 Yes

Milling: 2.029 99.334 1.000 99.334 No

HMA Pavement Base 2: 4.281 206.353 1.000 206.353 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.610 77.300 1.000 77.300 No

Base Aggregate Shoulder: 38.967 1923.614 1.000 1923.614 No

HMA Pavement Base 3: 4.531 218.853 1.000 218.853 No

HMA Pavement Base 1: 2.687 129.238 1.000 129.238 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 12.329 604.570 1.000 604.570 No

Topsoil (Removed): 13.546 662.778 1.000 662.778 No

11300.000 -12810.517

Existing Pavement

(removed):

82.355 4100.435 1.000 4100.435 No

Total Existing Pavement: 82.355 4100.435 1.000 4100.435

Volumes - Cut: 14.854 827.947 1.000 827.947 Yes

Volumes - Fill: 126.493 6691.019 1.000 6691.019 Yes

Milling: 2.085 102.872 1.000 102.872 No

HMA Pavement Base 2: 4.588 221.730 1.000 221.730 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 17 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.738 83.707 1.000 83.707 No

Base Aggregate Shoulder: 39.654 1965.515 1.000 1965.515 No

HMA Pavement Base 3: 4.838 234.230 1.000 234.230 No

HMA Pavement Base 1: 2.892 139.489 1.000 139.489 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 12.109 610.960 1.000 610.960 No

Topsoil (Removed): 11.914 636.512 1.000 636.512 No

11350.000 -17616.114

Existing Pavement

(removed):

83.482 4145.931 1.000 4145.931 No

Total Existing Pavement: 83.482 4145.931 1.000 4145.931

Volumes - Cut: 16.863 792.931 1.000 792.931 Yes

Volumes - Fill: 97.448 5598.529 1.000 5598.529 Yes

Volumes Report Page 9 of 40

Station Type Area Volume Factor

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Mass

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Mass

Ordinate

Milling: 2.168 106.326 1.000 106.326 No

HMA Pavement Base 2: 4.896 237.107 1.000 237.107 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.866 90.114 1.000 90.114 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **18** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Base Aggregate Shoulder: 40.586 2005.989 1.000 2005.989 No

HMA Pavement Base 3: 5.146 249.607 1.000 249.607 No

HMA Pavement Base 1: 3.097 149.741 1.000 149.741 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 12.208 607.947 1.000 607.947 No

Topsoil (Removed): 10.367 557.029 1.000 557.029 No

11400.000 -22196.945

Existing Pavement

(removed):

84.433 4197.873 1.000 4197.873 No

Total Existing Pavement: 84.433 4197.873 1.000 4197.873

Volumes - Cut: 16.533 834.904 1.000 834.904 Yes

Volumes - Fill: 119.182 5415.735 1.000 5415.735 Yes

Milling: 2.246 110.332 1.000 110.332 No

HMA Pavement Base 2: 5.203 252.484 1.000 252.484 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.994 96.521 1.000 96.521 No

Base Aggregate Shoulder: 41.404 2049.757 1.000 2049.757 No

HMA Pavement Base 3: 5.453 264.984 1.000 264.984 No

HMA Pavement Base 1: 3.302 159.993 1.000 159.993 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.878 577.152 1.000 577.152 No

Topsoil (Removed): 11.890 556.430 1.000 556.430 No

11450.000 -26145.117

Existing Pavement

(removed):

85.100 4238.321 1.000 4238.321 No

Total Existing Pavement: 85.100 4238.321 1.000 4238.321

Volumes - Cut: 23.269 995.053 1.000 995.053 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **19** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Fill: 78.547 4943.225 1.000 4943.225 Yes

Milling: 2.310 113.905 1.000 113.905 No

HMA Pavement Base 2: 5.511 267.862 1.000 267.862 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.123 102.928 1.000 102.928 No

Base Aggregate Shoulder: 42.354 2093.950 1.000 2093.950 No

HMA Pavement Base 3: 5.761 280.362 1.000 280.362 No

HMA Pavement Base 1: 3.507 170.244 1.000 170.244 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.176 501.346 1.000 501.346 No

Volumes Report Page 10 of 40

Station Type Area Volume Factor

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Mass

Ordinate?

Mass

Ordinate

Topsoil (Removed): 12.084 599.362 1.000 599.362 No

11500.000 -28263.089

Existing Pavement

(removed):

85.557 4266.441 1.000 4266.441 No

Total Existing Pavement: 85.557 4266.441 1.000 4266.441

Volumes - Cut: 22.011 1132.008 1.000 1132.008 Yes

Volumes - Fill: 51.452 3249.979 1.000 3249.979 Yes

Milling: 2.374 117.111 1.000 117.111 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **20** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 2: 5.493 275.095 1.000 275.095 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.115 105.942 1.000 105.942 No

Base Aggregate Shoulder: 42.293 2116.181 1.000 2116.181 No

HMA Pavement Base 3: 5.743 287.595 1.000 287.595 No

HMA Pavement Base 1: 3.495 175.068 1.000 175.068 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.291 511.689 1.000 511.689 No

Topsoil (Removed): 7.133 480.431 1.000 480.431 No

11550.000 -29541.193

Existing Pavement

(removed):

85.893 4286.264 1.000 4286.264 No

Total Existing Pavement: 85.893 4286.264 1.000 4286.264

Volumes - Cut: 23.373 1134.603 1.000 1134.603 Yes

Volumes - Fill: 45.057 2412.708 1.000 2412.708 Yes

Milling: 2.432 120.141 1.000 120.141 No

HMA Pavement Base 2: 5.326 270.482 1.000 270.482 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.046 104.020 1.000 104.020 No

Base Aggregate Shoulder: 41.741 2100.864 1.000 2100.864 No

HMA Pavement Base 3: 5.576 282.982 1.000 282.982 No

HMA Pavement Base 1: 3.384 171.992 1.000 171.992 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.017 532.708 1.000 532.708 No

Topsoil (Removed): 6.974 352.676 1.000 352.676 No

11600.000 -29626.177

Existing Pavement

(removed):

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **21** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

87.161 4326.347 1.000 4326.347 No

Total Existing Pavement: 87.161 4326.347 1.000 4326.347

Volumes - Cut: 30.064 1335.916 1.000 1335.916 Yes

Volumes - Fill: 11.779 1420.900 1.000 1420.900 Yes

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Station Type Area Volume Factor

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Ordinate

Milling: 2.485 122.918 1.000 122.918 No

HMA Pavement Base 2: 5.160 262.164 1.000 262.164 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.976 100.554 1.000 100.554 No

Base Aggregate Shoulder: 41.189 2073.246 1.000 2073.246 No

HMA Pavement Base 3: 5.410 274.664 1.000 274.664 No

HMA Pavement Base 1: 3.273 166.446 1.000 166.446 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 5.282 382.464 1.000 382.464 No

Topsoil (Removed): 8.673 391.170 1.000 391.170 No

11650.000 -30398.280

Existing Pavement

(removed):

88.080 4381.023 1.000 4381.023 No

Total Existing Pavement: 88.080 4381.023 1.000 4381.023

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **22** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Cut: 19.140 1230.097 1.000 1230.097 Yes

Volumes - Fill: 68.309 2002.199 1.000 2002.199 Yes

Milling: 2.554 125.980 1.000 125.980 No

HMA Pavement Base 2: 4.994 253.847 1.000 253.847 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.907 97.089 1.000 97.089 No

Base Aggregate Shoulder: 40.636 2045.632 1.000 2045.632 No

HMA Pavement Base 3: 5.244 266.347 1.000 266.347 No

HMA Pavement Base 1: 3.163 160.901 1.000 160.901 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.128 410.232 1.000 410.232 No

Topsoil (Removed): 14.371 576.107 1.000 576.107 No

11700.000 -33278.879

Existing Pavement

(removed):

88.132 4405.316 1.000 4405.316 No

Total Existing Pavement: 88.132 4405.316 1.000 4405.316

Volumes - Cut: 21.549 1017.230 1.000 1017.230 Yes

Volumes - Fill: 87.605 3897.830 1.000 3897.830 Yes

Milling: 2.619 129.327 1.000 129.327 No

HMA Pavement Base 2: 4.827 245.529 1.000 245.529 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.838 93.623 1.000 93.623 No

Base Aggregate Shoulder: 40.084 2018.017 1.000 2018.017 No

HMA Pavement Base 3: 5.077 258.029 1.000 258.029 No

HMA Pavement Base 1: 3.052 155.356 1.000 155.356 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.259 534.665 1.000 534.665 No

Volumes Report Page 12 of 40

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **23** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Topsoil (Removed): 14.361 718.311 1.000 718.311 No

11750.000 -36907.187

Existing Pavement

(removed):

88.577 4417.731 1.000 4417.731 No

Total Existing Pavement: 88.577 4417.731 1.000 4417.731

Volumes - Cut: 19.463 1025.311 1.000 1025.311 Yes

Volumes - Fill: 98.540 4653.620 1.000 4653.620 Yes

Milling: 2.689 132.689 1.000 132.689 No

HMA Pavement Base 2: 4.661 237.211 1.000 237.211 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.768 90.157 1.000 90.157 No

Base Aggregate Shoulder: 39.532 1990.402 1.000 1990.402 No

HMA Pavement Base 3: 4.911 249.711 1.000 249.711 No

HMA Pavement Base 1: 2.941 149.811 1.000 149.811 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.734 499.824 1.000 499.824 No

Topsoil (Removed): 10.981 633.549 1.000 633.549 No

11790.350 -39522.562

Existing Pavement

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 24 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

(removed):

89.075 3584.126 1.000 3584.126 No

Total Existing Pavement: 89.075 3584.126 1.000 3584.126

Volumes - Cut: 8.241 558.926 1.000 558.926 Yes

Volumes - Fill: 58.798 3174.300 1.000 3174.300 Yes

Milling: 2.750 109.727 1.000 109.727 No

HMA Pavement Base 2: 3.624 167.155 1.000 167.155 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.423 64.394 1.000 64.394 No

Base Aggregate Shoulder: 24.061 1282.986 1.000 1282.986 No

HMA Pavement Base 3: 3.749 174.721 1.000 174.721 No

HMA Pavement Base 1: 2.333 106.395 1.000 106.395 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 196.384 1.000 196.384 No

Topsoil (Removed): 10.565 434.693 1.000 434.693 No

11800.000 -39973.691

Existing Pavement

(removed):

89.286 860.592 1.000 860.592 No

Total Existing Pavement: 89.286 860.592 1.000 860.592

Volumes - Cut: 8.171 79.188 1.000 79.188 Yes

Volumes - Fill: 51.112 530.317 1.000 530.317 Yes

Volumes Report Page 13 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 25 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ordinate?

Mass

Ordinate

Milling: 3.043 27.952 1.000 27.952 No

HMA Pavement Base 2: 3.624 34.971 1.000 34.971 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.423 13.733 1.000 13.733 No

Base Aggregate Shoulder: 24.059 232.178 1.000 232.178 No

HMA Pavement Base 3: 3.749 36.177 1.000 36.177 No

HMA Pavement Base 1: 2.332 22.510 1.000 22.510 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 9.715 97.852 1.000 97.852 No

11850.000 -40057.199

Existing Pavement

(removed):

89.722 4475.205 1.000 4475.205 No

Total Existing Pavement: 89.722 4475.205 1.000 4475.205

Volumes - Cut: 39.600 1194.295 1.000 1194.295 Yes

Volumes - Fill: 0.000 1277.803 1.000 1277.803 Yes

Milling: 3.078 153.040 1.000 153.040 No

HMA Pavement Base 2: 3.632 181.390 1.000 181.390 No

Cut Slope: 1.680 41.990 1.000 41.990 No

HMA Pavement Surface 1: 1.427 71.239 1.000 71.239 No

Base Aggregate Shoulder: 24.087 1203.645 1.000 1203.645 No

HMA Pavement Base 3: 3.757 187.640 1.000 187.640 No

HMA Pavement Base 1: 2.338 116.762 1.000 116.762 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **26** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Topsoil (Removed): 0.250 249.130 1.000 249.130 No

11900.000 -39060.192

Existing Pavement

(removed):

90.878 4514.992 1.000 4514.992 No

Total Existing Pavement: 90.878 4514.992 1.000 4514.992

Volumes - Cut: 16.300 1397.501 1.000 1397.501 Yes

Volumes - Fill: 16.020 400.495 1.000 400.495 Yes

Milling: 3.178 156.414 1.000 156.414 No

HMA Pavement Base 2: 3.644 181.910 1.000 181.910 No

Cut Slope: 11.911 339.762 1.000 339.762 No

HMA Pavement Surface 1: 1.432 71.456 1.000 71.456 No

Base Aggregate Shoulder: 24.128 1205.372 1.000 1205.372 No

HMA Pavement Base 3: 3.769 188.160 1.000 188.160 No

HMA Pavement Base 1: 2.346 117.109 1.000 117.109 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Volumes Report Page 14 of 40

Station Type Area Volume Factor

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Mass

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Mass

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Topsoil (Removed): 10.148 259.958 1.000 259.958 No

11950.000 -38660.789

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **27** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Existing Pavement

(removed):

91.453 4558.264 1.000 4558.264 No

Total Existing Pavement: 91.453 4558.264 1.000 4558.264

Volumes - Cut: 25.302 1040.041 1.000 1040.041 Yes

Volumes - Fill: 9.606 640.638 1.000 640.638 Yes

Milling: 3.236 160.347 1.000 160.347 No

HMA Pavement Base 2: 3.657 182.528 1.000 182.528 No

Cut Slope: 23.792 892.560 1.000 892.560 No

HMA Pavement Surface 1: 1.437 71.713 1.000 71.713 No

Base Aggregate Shoulder: 24.169 1207.423 1.000 1207.423 No

HMA Pavement Base 3: 3.782 188.778 1.000 188.778 No

HMA Pavement Base 1: 2.355 117.521 1.000 117.521 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 11.823 549.279 1.000 549.279 No

12000.000 -36957.187

Existing Pavement

(removed):

91.594 4576.185 1.000 4576.185 No

Total Existing Pavement: 91.594 4576.185 1.000 4576.185

Volumes - Cut: 58.586 2097.191 1.000 2097.191 Yes

Volumes - Fill: 6.138 393.588 1.000 393.588 Yes

Milling: 3.262 162.437 1.000 162.437 No

HMA Pavement Base 2: 3.669 183.146 1.000 183.146 No

Cut Slope: 31.253 1376.121 1.000 1376.121 No

HMA Pavement Surface 1: 1.442 71.970 1.000 71.970 No

Base Aggregate Shoulder: 24.210 1209.474 1.000 1209.474 No

HMA Pavement Base 3: 3.794 189.396 1.000 189.396 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **28** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 1: 2.363 117.933 1.000 117.933 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.942 619.129 1.000 619.129 No

12050.000 -34571.855

Existing Pavement

(removed):

93.541 4628.382 1.000 4628.382 No

Total Existing Pavement: 93.541 4628.382 1.000 4628.382

Volumes - Cut: 48.885 2686.775 1.000 2686.775 Yes

Volumes - Fill: 5.920 301.443 1.000 301.443 Yes

Volumes Report Page 15 of 40

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Milling: 3.444 167.644 1.000 167.644 No

HMA Pavement Base 2: 3.506 179.379 1.000 179.379 No

Cut Slope: 34.824 1651.923 1.000 1651.923 No

HMA Pavement Surface 1: 1.374 70.401 1.000 70.401 No

Base Aggregate Shoulder: 23.669 1196.967 1.000 1196.967 No

HMA Pavement Base 3: 3.631 185.629 1.000 185.629 No

HMA Pavement Base 1: 2.254 115.421 1.000 115.421 No

Ditch: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **29** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.306 656.201 1.000 656.201 No

12100.000 -32921.419

Existing Pavement

(removed):

99.728 4831.725 1.000 4831.725 No

Total Existing Pavement: 99.728 4831.725 1.000 4831.725

Volumes - Cut: 24.314 1829.996 1.000 1829.996 Yes

Volumes - Fill: 1.262 179.560 1.000 179.560 Yes

Milling: 4.033 186.926 1.000 186.926 No

HMA Pavement Base 2: 2.518 150.595 1.000 150.595 No

Cut Slope: 7.321 1053.627 1.000 1053.627 No

HMA Pavement Surface 1: 0.962 58.407 1.000 58.407 No

Base Aggregate Shoulder: 20.387 1101.404 1.000 1101.404 No

HMA Pavement Base 3: 2.643 156.845 1.000 156.845 No

HMA Pavement Base 1: 1.595 96.232 1.000 96.232 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 9.035 558.518 1.000 558.518 No

12149.310 -32353.071

Existing Pavement

(removed):

108.172 5125.772 1.000 5125.772 No

Total Existing Pavement: 108.172 5125.772 1.000 5125.772

Volumes - Cut: 0.000 599.473 1.000 599.473 Yes

Volumes - Fill: 0.000 31.126 1.000 31.126 Yes

Milling: 4.844 218.864 1.000 218.864 No

HMA Pavement Base 2: 0.000 62.075 1.000 62.075 No

Cut Slope: 0.000 180.512 1.000 180.512 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **30** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Surface 1: 0.000 23.724 1.000 23.724 No

Base Aggregate Shoulder: 0.000 502.653 1.000 502.653 No

HMA Pavement Base 3: 0.000 65.156 1.000 65.156 No

HMA Pavement Base 1: 0.000 39.329 1.000 39.329 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Volumes Report Page 16 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Topsoil (Removed): 1.178 251.796 1.000 251.796 No

12150.000 -32353.071

Existing Pavement

(removed):

108.304 74.684 1.000 74.684 No

Total Existing Pavement: 108.304 74.684 1.000 74.684

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 5.165 3.453 1.000 3.453 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **31** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.406 1.000 0.406 No

12200.000 -32353.071

Existing Pavement

(removed):

122.206 5762.744 1.000 5762.744 No

Total Existing Pavement: 122.206 5762.744 1.000 5762.744

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 6.599 294.112 1.000 294.112 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

12250.000 -32353.071

Existing Pavement

(removed):

141.264 6586.764 1.000 6586.764 No

Total Existing Pavement: 141.264 6586.764 1.000 6586.764

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **32** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes Report Page 17 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Milling: 8.501 377.508 1.000 377.508 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

12292.900 -32353.071

Existing Pavement

(removed):

121.532 5636.977 1.000 5636.977 No

Total Existing Pavement: 121.532 5636.977 1.000 5636.977

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 9.629 388.894 1.000 388.894 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **33** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

12300.000 -32353.071

Existing Pavement

(removed):

128.025 885.925 1.000 885.925 No

Total Existing Pavement: 128.025 885.925 1.000 885.925

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 5.592 54.034 1.000 54.034 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Volumes Report Page 18 of 40

Station Type Area Volume Factor

Adjusted

Volume

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **34** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Included in

Mass

Ordinate?

Mass

Ordinate

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

12309.160 -32353.071

Existing Pavement

(removed):

147.418 1261.527 1.000 1261.527 No

Total Existing Pavement: 147.418 1261.527 1.000 1261.527

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 0.000 25.610 1.000 25.610 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13796.710 -32353.071

Existing Pavement

(removed):

83.666 171874.590 1.000 171874.590 No

Total Existing Pavement: 83.666 171874.588 1.000 171874.588

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **35** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 4.092 3043.314 1.000 3043.314 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13800.000 -32353.071

Existing Pavement

(removed):

114.746 326.388 1.000 326.388 No

Total Existing Pavement: 114.746 326.388 1.000 326.388

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Volumes Report Page 19 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Milling: 4.010 13.327 1.000 13.327 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **36** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13809.660 -32301.133

Existing Pavement

(removed):

112.318 1096.720 1.000 1096.720 No

Total Existing Pavement: 112.318 1096.720 1.000 1096.720

Volumes - Cut: 10.753 51.938 1.000 51.938 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 8.398 59.933 1.000 59.933 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 9.273 44.787 1.000 44.787 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13850.000 -32443.277

Existing Pavement

(removed):

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **37** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

129.942 4886.382 1.000 4886.382 No
Total Existing Pavement: 129.942 4886.382 1.000 4886.382
Volumes - Cut: 4.912 315.959 1.000 315.959 Yes
Volumes - Fill: 22.712 458.103 1.000 458.103 Yes
Milling: 7.398 318.612 1.000 318.612 No
HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No
Cut Slope: 0.000 0.000 1.000 0.000 No
HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No
Base Aggregate Shoulder: 11.081 410.535 1.000 410.535 No
HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No
HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No
Ditch: 0.000 0.000 1.000 0.000 No
Topsoil: 7.286 146.952 1.000 146.952 No
Volumes Report Page 20 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Topsoil (Removed): 0.000 0.000 1.000 0.000 No
13900.000 -33349.738
Existing Pavement
(removed):
118.566 6212.689 1.000 6212.689 No
Total Existing Pavement: 118.566 6212.689 1.000 6212.689

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **38** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Cut: 4.408 232.994 1.000 232.994 Yes

Volumes - Fill: 22.866 1139.454 1.000 1139.454 Yes

Milling: 6.232 340.757 1.000 340.757 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 9.591 516.806 1.000 516.806 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.104 359.737 1.000 359.737 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13933.400 -33857.059

Existing Pavement

(removed):

113.185 3870.240 1.000 3870.240 No

Total Existing Pavement: 113.185 3870.243 1.000 3870.243

Volumes - Cut: 7.318 195.825 1.000 195.825 Yes

Volumes - Fill: 19.238 703.146 1.000 703.146 Yes

Milling: 5.601 197.609 1.000 197.609 No

HMA Pavement Base 2: 0.208 3.480 1.000 3.480 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 14.376 400.251 1.000 400.251 No

HMA Pavement Base 3: 0.333 5.567 1.000 5.567 No

HMA Pavement Base 1: 0.056 0.928 1.000 0.928 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.119 237.526 1.000 237.526 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **39** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

13950.000 -34053.138

Existing Pavement

(removed):

110.869 1859.644 1.000 1859.644 No

Total Existing Pavement: 110.869 1859.646 1.000 1859.646

Volumes - Cut: 8.444 130.820 1.000 130.820 Yes

Volumes Report Page 21 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Volumes - Fill: 20.147 326.899 1.000 326.899 Yes

Milling: 5.142 89.160 1.000 89.160 No

HMA Pavement Base 2: 1.219 11.847 1.000 11.847 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.421 3.495 1.000 3.495 No

Base Aggregate Shoulder: 16.076 252.749 1.000 252.749 No

HMA Pavement Base 3: 1.344 13.922 1.000 13.922 No

HMA Pavement Base 1: 0.729 6.515 1.000 6.515 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.623 122.360 1.000 122.360 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **40** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

14000.000 -34608.316

Existing Pavement

(removed):

104.669 5388.449 1.000 5388.449 No

Total Existing Pavement: 104.669 5388.449 1.000 5388.449

Volumes - Cut: 9.790 455.853 1.000 455.853 Yes

Volumes - Fill: 20.294 1011.031 1.000 1011.031 Yes

Milling: 4.618 243.979 1.000 243.979 No

HMA Pavement Base 2: 1.701 73.003 1.000 73.003 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.622 26.077 1.000 26.077 No

Base Aggregate Shoulder: 17.676 843.799 1.000 843.799 No

HMA Pavement Base 3: 1.826 79.253 1.000 79.253 No

HMA Pavement Base 1: 1.051 44.503 1.000 44.503 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 8.699 408.058 1.000 408.058 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14050.000 -35280.591

Existing Pavement

(removed):

101.000 5141.746 1.000 5141.746 No

Total Existing Pavement: 101.000 5141.746 1.000 5141.746

Volumes - Cut: 8.075 446.639 1.000 446.639 Yes

Volumes - Fill: 24.462 1118.914 1.000 1118.914 Yes

Milling: 4.198 220.391 1.000 220.391 No

HMA Pavement Base 2: 2.171 96.797 1.000 96.797 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.818 35.992 1.000 35.992 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **41** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Base Aggregate Shoulder: 19.236 922.796 1.000 922.796 No

HMA Pavement Base 3: 2.296 103.047 1.000 103.047 No

Volumes Report Page 22 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

HMA Pavement Base 1: 1.364 60.366 1.000 60.366 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 8.482 429.547 1.000 429.547 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14100.000 -36167.292

Existing Pavement

(removed):

97.367 4959.187 1.000 4959.187 No

Total Existing Pavement: 97.367 4959.187 1.000 4959.187

Volumes - Cut: 8.211 407.152 1.000 407.152 Yes

Volumes - Fill: 27.292 1293.853 1.000 1293.853 Yes

Milling: 3.806 200.094 1.000 200.094 No

HMA Pavement Base 2: 2.783 123.844 1.000 123.844 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.073 47.261 1.000 47.261 No

Base Aggregate Shoulder: 21.268 1012.591 1.000 1012.591 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **42** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 2.908 130.094 1.000 130.094 No

HMA Pavement Base 1: 1.772 78.397 1.000 78.397 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 8.924 435.154 1.000 435.154 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14150.000 -37373.040

Existing Pavement

(removed):

93.669 4775.904 1.000 4775.904 No

Total Existing Pavement: 93.669 4775.904 1.000 4775.904

Volumes - Cut: 8.686 422.416 1.000 422.416 Yes

Volumes - Fill: 37.835 1628.164 1.000 1628.164 Yes

Milling: 3.381 179.674 1.000 179.674 No

HMA Pavement Base 2: 3.430 155.325 1.000 155.325 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.342 60.379 1.000 60.379 No

Base Aggregate Shoulder: 23.416 1117.110 1.000 1117.110 No

HMA Pavement Base 3: 3.555 161.575 1.000 161.575 No

HMA Pavement Base 1: 2.203 99.386 1.000 99.386 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.898 470.534 1.000 470.534 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14200.000 -38794.475

Volumes Report Page 23 of 40

Station Type Area Volume Factor

Adjusted

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **43** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement

(removed):

92.512 4654.528 1.000 4654.528 No

Total Existing Pavement: 92.512 4654.527 1.000 4654.527

Volumes - Cut: 8.514 429.989 1.000 429.989 Yes

Volumes - Fill: 36.222 1851.425 1.000 1851.425 Yes

Milling: 3.198 164.482 1.000 164.482 No

HMA Pavement Base 2: 3.731 179.028 1.000 179.028 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.468 70.255 1.000 70.255 No

Base Aggregate Shoulder: 24.416 1195.803 1.000 1195.803 No

HMA Pavement Base 3: 3.856 185.278 1.000 185.278 No

HMA Pavement Base 1: 2.404 115.188 1.000 115.188 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.703 490.008 1.000 490.008 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14250.000 -40371.406

Existing Pavement

(removed):

91.587 4602.469 1.000 4602.469 No

Total Existing Pavement: 91.587 4602.469 1.000 4602.469

Volumes - Cut: 8.998 437.788 1.000 437.788 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **44** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Fill: 44.367 2014.720 1.000 2014.720 Yes

Milling: 3.096 157.350 1.000 157.350 No

HMA Pavement Base 2: 3.716 186.187 1.000 186.187 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.462 73.238 1.000 73.238 No

Base Aggregate Shoulder: 24.525 1223.521 1.000 1223.521 No

HMA Pavement Base 3: 3.841 192.437 1.000 192.437 No

HMA Pavement Base 1: 2.394 119.960 1.000 119.960 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.041 468.589 1.000 468.589 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14295.230 -42008.828

Existing Pavement

(removed):

90.119 4109.274 1.000 4109.274 No

Total Existing Pavement: 90.119 4109.274 1.000 4109.274

Volumes - Cut: 9.231 412.248 1.000 412.248 Yes

Volumes - Fill: 46.267 2049.670 1.000 2049.670 Yes

Milling: 2.718 131.485 1.000 131.485 No

Volumes Report Page 24 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **45** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ordinate

HMA Pavement Base 2: 3.703 167.791 1.000 167.791 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.456 65.986 1.000 65.986 No

Base Aggregate Shoulder: 24.760 1114.572 1.000 1114.572 No

HMA Pavement Base 3: 3.828 173.444 1.000 173.444 No

HMA Pavement Base 1: 2.385 108.093 1.000 108.093 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.807 426.249 1.000 426.249 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

14300.000 -42152.346

Existing Pavement

(removed):

90.074 429.760 1.000 429.760 No

Total Existing Pavement: 90.074 429.760 1.000 429.760

Volumes - Cut: 24.161 79.640 1.000 79.640 Yes

Volumes - Fill: 47.300 223.157 1.000 223.157 Yes

Milling: 2.714 12.954 1.000 12.954 No

HMA Pavement Base 2: 4.634 19.885 1.000 19.885 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.757 7.664 1.000 7.664 No

Base Aggregate Shoulder: 39.905 154.225 1.000 154.225 No

HMA Pavement Base 3: 4.884 20.779 1.000 20.779 No

HMA Pavement Base 1: 2.923 12.660 1.000 12.660 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.696 46.515 1.000 46.515 No

Topsoil (Removed): 4.173 9.952 1.000 9.952 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 46 OF 81
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

14350.000 -43458.587

Existing Pavement

(removed):

89.375 4486.227 1.000 4486.227 No

Total Existing Pavement: 89.375 4486.227 1.000 4486.227

Volumes - Cut: 18.146 1057.665 1.000 1057.665 Yes

Volumes - Fill: 47.256 2363.906 1.000 2363.906 Yes

Milling: 2.623 133.419 1.000 133.419 No

HMA Pavement Base 2: 4.839 236.845 1.000 236.845 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.843 90.006 1.000 90.006 No

Base Aggregate Shoulder: 40.781 2017.154 1.000 2017.154 No

HMA Pavement Base 3: 5.089 249.345 1.000 249.345 No

HMA Pavement Base 1: 3.060 149.567 1.000 149.567 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Volumes Report Page 25 of 40

Station Type Area Volume Factor

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Mass

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Mass

Ordinate

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.307 475.062 1.000 475.062 No

Topsoil (Removed): 4.735 222.688 1.000 222.688 No

14400.000 -47084.268

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **47** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Existing Pavement

(removed):

88.449 4445.611 1.000 4445.611 No

Total Existing Pavement: 88.449 4445.611 1.000 4445.611

Volumes - Cut: 33.738 1297.089 1.000 1297.089 Yes

Volumes - Fill: 149.655 4922.770 1.000 4922.770 Yes

Milling: 2.548 129.290 1.000 129.290 No

HMA Pavement Base 2: 5.045 247.103 1.000 247.103 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.928 94.279 1.000 94.279 No

Base Aggregate Shoulder: 41.620 2060.024 1.000 2060.024 No

HMA Pavement Base 3: 5.295 259.603 1.000 259.603 No

HMA Pavement Base 1: 3.196 156.405 1.000 156.405 No

Rip Rap: 119.767 2994.165 1.000 2994.165 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 11.850 528.922 1.000 528.922 No

Topsoil (Removed): 15.255 499.747 1.000 499.747 No

14450.000 -50325.669

Existing Pavement

(removed):

87.794 4406.071 1.000 4406.071 No

Total Existing Pavement: 87.794 4406.071 1.000 4406.071

Volumes - Cut: 21.252 1374.743 1.000 1374.743 Yes

Volumes - Fill: 34.991 4616.144 1.000 4616.144 Yes

Milling: 2.469 125.424 1.000 125.424 No

HMA Pavement Base 2: 5.250 257.358 1.000 257.358 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.014 98.552 1.000 98.552 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **48** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Base Aggregate Shoulder: 41.924 2088.589 1.000 2088.589 No

HMA Pavement Base 3: 5.500 269.858 1.000 269.858 No

HMA Pavement Base 1: 3.333 163.242 1.000 163.242 No

Rip Rap: 0.000 2994.165 1.000 2994.165 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.119 549.245 1.000 549.245 No

Topsoil (Removed): 4.502 493.932 1.000 493.932 No

14500.000 -51214.325

Volumes Report Page 26 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement

(removed):

86.944 4368.439 1.000 4368.439 No

Total Existing Pavement: 86.944 4368.439 1.000 4368.439

Volumes - Cut: 25.105 1158.919 1.000 1158.919 Yes

Volumes - Fill: 46.912 2047.575 1.000 2047.575 Yes

Milling: 2.401 121.747 1.000 121.747 No

HMA Pavement Base 2: 5.455 267.614 1.000 267.614 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.099 102.825 1.000 102.825 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **49** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Base Aggregate Shoulder: 42.385 2107.724 1.000 2107.724 No

HMA Pavement Base 3: 5.705 280.114 1.000 280.114 No

HMA Pavement Base 1: 3.470 170.079 1.000 170.079 No

Rip Rap: 4.020 100.506 1.000 100.506 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.555 516.873 1.000 516.873 No

Topsoil (Removed): 4.741 231.088 1.000 231.088 No

14550.000 -52172.040

Existing Pavement

(removed):

86.358 4332.538 1.000 4332.538 No

Total Existing Pavement: 86.358 4332.538 1.000 4332.538

Volumes - Cut: 24.667 1244.282 1.000 1244.282 Yes

Volumes - Fill: 41.168 2201.997 1.000 2201.997 Yes

Milling: 2.309 117.747 1.000 117.747 No

HMA Pavement Base 2: 5.660 277.869 1.000 277.869 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.185 107.098 1.000 107.098 No

Base Aggregate Shoulder: 43.280 2141.632 1.000 2141.632 No

HMA Pavement Base 3: 5.910 290.369 1.000 290.369 No

HMA Pavement Base 1: 3.607 176.917 1.000 176.917 No

Rip Rap: 0.000 100.506 1.000 100.506 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.160 517.879 1.000 517.879 No

Topsoil (Removed): 4.591 233.303 1.000 233.303 No

14600.000 -52941.349

Existing Pavement

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **50** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

(removed):

85.868 4305.630 1.000 4305.630 No

Total Existing Pavement: 85.868 4305.630 1.000 4305.630

Volumes - Cut: 24.598 1231.621 1.000 1231.621 Yes

Volumes Report Page 27 of 40

Station Type Area Volume Factor

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Mass

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Mass

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Volumes - Fill: 38.869 2000.930 1.000 2000.930 Yes

Milling: 2.222 113.261 1.000 113.261 No

HMA Pavement Base 2: 5.865 288.125 1.000 288.125 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.270 111.371 1.000 111.371 No

Base Aggregate Shoulder: 44.503 2194.583 1.000 2194.583 No

HMA Pavement Base 3: 6.115 300.625 1.000 300.625 No

HMA Pavement Base 1: 3.743 183.754 1.000 183.754 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.892 501.291 1.000 501.291 No

Topsoil (Removed): 5.450 251.004 1.000 251.004 No

14650.000 -53670.224

Existing Pavement

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **51** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

(removed):

84.970 4270.947 1.000 4270.947 No

Total Existing Pavement: 84.970 4270.947 1.000 4270.947

Volumes - Cut: 25.485 1252.066 1.000 1252.066 Yes

Volumes - Fill: 40.368 1980.941 1.000 1980.941 Yes

Milling: 2.140 109.054 1.000 109.054 No

HMA Pavement Base 2: 5.657 288.040 1.000 288.040 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.183 111.336 1.000 111.336 No

Base Aggregate Shoulder: 43.602 2202.620 1.000 2202.620 No

HMA Pavement Base 3: 5.907 300.540 1.000 300.540 No

HMA Pavement Base 1: 3.604 183.697 1.000 183.697 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.744 490.908 1.000 490.908 No

Topsoil (Removed): 6.076 288.128 1.000 288.128 No

14700.000 -54517.880

Existing Pavement

(removed):

84.416 4234.667 1.000 4234.667 No

Total Existing Pavement: 84.416 4234.667 1.000 4234.667

Volumes - Cut: 20.242 1143.158 1.000 1143.158 Yes

Volumes - Fill: 39.264 1990.814 1.000 1990.814 Yes

Milling: 2.057 104.935 1.000 104.935 No

HMA Pavement Base 2: 5.322 274.472 1.000 274.472 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 2.044 105.683 1.000 105.683 No

Volumes Report Page 28 of 40

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **52** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Station Type Area Volume Factor

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Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Base Aggregate Shoulder: 42.460 2151.539 1.000 2151.539 No

HMA Pavement Base 3: 5.572 286.972 1.000 286.972 No

HMA Pavement Base 1: 3.382 174.651 1.000 174.651 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.696 486.014 1.000 486.014 No

Topsoil (Removed): 5.587 291.576 1.000 291.576 No

14750.000 -56228.740

Existing Pavement

(removed):

83.785 4205.035 1.000 4205.035 No

Total Existing Pavement: 83.785 4205.035 1.000 4205.035

Volumes - Cut: 17.460 942.556 1.000 942.556 Yes

Volumes - Fill: 66.873 2653.415 1.000 2653.415 Yes

Milling: 1.988 101.135 1.000 101.135 No

HMA Pavement Base 2: 4.973 257.383 1.000 257.383 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.898 98.562 1.000 98.562 No

Base Aggregate Shoulder: 40.834 2082.343 1.000 2082.343 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **53** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 5.223 269.883 1.000 269.883 No

HMA Pavement Base 1: 3.149 163.259 1.000 163.259 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 10.226 498.048 1.000 498.048 No

Topsoil (Removed): 10.970 413.943 1.000 413.943 No

14800.000 -58867.250

Existing Pavement

(removed):

83.024 4170.222 1.000 4170.222 No

Total Existing Pavement: 83.024 4170.222 1.000 4170.222

Volumes - Cut: 17.389 871.231 1.000 871.231 Yes

Volumes - Fill: 73.517 3509.741 1.000 3509.741 Yes

Milling: 1.930 97.952 1.000 97.952 No

HMA Pavement Base 2: 4.643 240.397 1.000 240.397 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.761 91.485 1.000 91.485 No

Base Aggregate Shoulder: 39.472 2007.637 1.000 2007.637 No

HMA Pavement Base 3: 4.893 252.897 1.000 252.897 No

HMA Pavement Base 1: 2.929 151.935 1.000 151.935 No

Rip Rap: 10.423 260.572 1.000 260.572 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Volumes Report Page 29 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **54** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

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Ordinate

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 9.012 480.935 1.000 480.935 No

Topsoil (Removed): 11.459 560.724 1.000 560.724 No

14850.000 -61512.725

Existing Pavement

(removed):

81.663 4117.174 1.000 4117.174 No

Total Existing Pavement: 81.663 4117.174 1.000 4117.174

Volumes - Cut: 19.185 914.350 1.000 914.350 Yes

Volumes - Fill: 68.876 3559.825 1.000 3559.825 Yes

Milling: 1.867 94.928 1.000 94.928 No

HMA Pavement Base 2: 4.313 223.894 1.000 223.894 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.623 84.608 1.000 84.608 No

Base Aggregate Shoulder: 38.376 1946.188 1.000 1946.188 No

HMA Pavement Base 3: 4.563 236.394 1.000 236.394 No

HMA Pavement Base 1: 2.709 140.932 1.000 140.932 No

Rip Rap: 17.961 709.587 1.000 709.587 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 8.313 433.121 1.000 433.121 No

Topsoil (Removed): 12.285 593.593 1.000 593.593 No

14865.230 -62172.349

Existing Pavement

(removed):

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **55** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

81.330 1241.193 1.000 1241.193 No

Total Existing Pavement: 81.330 1241.193 1.000 1241.193

Volumes - Cut: 18.726 288.692 1.000 288.692 Yes

Volumes - Fill: 55.657 948.315 1.000 948.315 Yes

Milling: 1.852 28.321 1.000 28.321 No

HMA Pavement Base 2: 4.212 64.919 1.000 64.919 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.582 24.405 1.000 24.405 No

Base Aggregate Shoulder: 38.042 581.922 1.000 581.922 No

HMA Pavement Base 3: 4.462 68.726 1.000 68.726 No

HMA Pavement Base 1: 2.642 40.742 1.000 40.742 No

Rip Rap: 18.811 280.017 1.000 280.017 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 7.867 123.214 1.000 123.214 No

Topsoil (Removed): 12.659 189.947 1.000 189.947 No

14900.000 -63392.942

Volumes Report Page 30 of 40

Station Type Area Volume Factor

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Mass

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Existing Pavement

(removed):

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **56** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

81.353 2828.242 1.000 2828.242 No

Total Existing Pavement: 81.353 2828.242 1.000 2828.242

Volumes - Cut: 10.778 512.917 1.000 512.917 Yes

Volumes - Fill: 44.056 1733.511 1.000 1733.511 Yes

Milling: 2.114 68.938 1.000 68.938 No

HMA Pavement Base 2: 3.402 132.376 1.000 132.376 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.331 50.629 1.000 50.629 No

Base Aggregate Shoulder: 23.323 1066.840 1.000 1066.840 No

HMA Pavement Base 3: 3.527 138.895 1.000 138.895 No

HMA Pavement Base 1: 2.185 83.906 1.000 83.906 No

Rip Rap: 16.213 608.891 1.000 608.891 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 136.774 1.000 136.774 No

Topsoil (Removed): 13.223 449.957 1.000 449.957 No

14950.000 -65207.833

Existing Pavement

(removed):

80.442 4044.862 1.000 4044.862 No

Total Existing Pavement: 80.442 4044.862 1.000 4044.862

Volumes - Cut: 10.055 520.817 1.000 520.817 Yes

Volumes - Fill: 49.372 2335.708 1.000 2335.708 Yes

Milling: 0.844 73.927 1.000 73.927 No

HMA Pavement Base 2: 3.594 174.904 1.000 174.904 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.411 68.537 1.000 68.537 No

Base Aggregate Shoulder: 23.961 1182.113 1.000 1182.113 No

HMA Pavement Base 3: 3.719 181.154 1.000 181.154 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET 57 OF 81
STATE NO.: 311024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 1: 2.313 112.439 1.000 112.439 No

Rip Rap: 3.599 495.297 1.000 495.297 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.368 664.779 1.000 664.779 No

15000.000 -67102.706

Existing Pavement

(removed):

78.996 3985.934 1.000 3985.934 No

Total Existing Pavement: 78.996 3985.934 1.000 3985.934

Volumes - Cut: 11.227 532.059 1.000 532.059 Yes

Volumes Report Page 31 of 40

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Mass

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Mass

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Volumes - Fill: 47.705 2426.931 1.000 2426.931 Yes

Milling: 0.815 41.466 1.000 41.466 No

HMA Pavement Base 2: 3.671 181.627 1.000 181.627 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.443 71.337 1.000 71.337 No

Base Aggregate Shoulder: 24.216 1204.430 1.000 1204.430 No

HMA Pavement Base 3: 3.796 187.877 1.000 187.877 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **58** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 1: 2.364 116.920 1.000 116.920 No

Rip Rap: 0.000 89.976 1.000 89.976 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.515 672.065 1.000 672.065 No

15050.000 -69105.993

Existing Pavement

(removed):

78.299 3932.360 1.000 3932.360 No

Total Existing Pavement: 78.299 3932.360 1.000 3932.360

Volumes - Cut: 9.723 523.769 1.000 523.769 Yes

Volumes - Fill: 53.377 2527.055 1.000 2527.055 Yes

Milling: 0.843 41.460 1.000 41.460 No

HMA Pavement Base 2: 3.600 181.783 1.000 181.783 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.413 71.403 1.000 71.403 No

Base Aggregate Shoulder: 24.280 1212.399 1.000 1212.399 No

HMA Pavement Base 3: 3.725 188.033 1.000 188.033 No

HMA Pavement Base 1: 2.317 117.024 1.000 117.024 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.549 676.579 1.000 676.579 No

15100.000 -71370.247

Existing Pavement

(removed):

78.614 3922.824 1.000 3922.824 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **59** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Total Existing Pavement: 78.614 3922.824 1.000 3922.824

Volumes - Cut: 9.297 475.512 1.000 475.512 Yes

Volumes - Fill: 56.214 2739.767 1.000 2739.767 Yes

Milling: 0.871 42.863 1.000 42.863 No

HMA Pavement Base 2: 3.531 178.274 1.000 178.274 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.384 69.941 1.000 69.941 No

Volumes Report Page 32 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Base Aggregate Shoulder: 23.750 1200.751 1.000 1200.751 No

HMA Pavement Base 3: 3.656 184.524 1.000 184.524 No

HMA Pavement Base 1: 2.270 114.685 1.000 114.685 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.751 682.487 1.000 682.487 No

15150.000 -74018.718

Existing Pavement

(removed):

78.562 3929.416 1.000 3929.416 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **60** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Total Existing Pavement: 78.562 3929.416 1.000 3929.416

Volumes - Cut: 8.714 450.275 1.000 450.275 Yes

Volumes - Fill: 67.736 3098.746 1.000 3098.746 Yes

Milling: 0.860 43.278 1.000 43.278 No

HMA Pavement Base 2: 3.607 178.447 1.000 178.447 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.416 70.012 1.000 70.012 No

Base Aggregate Shoulder: 24.005 1193.873 1.000 1193.873 No

HMA Pavement Base 3: 3.732 184.697 1.000 184.697 No

HMA Pavement Base 1: 2.322 114.800 1.000 114.800 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.401 678.787 1.000 678.787 No

15200.000 -77152.005

Existing Pavement

(removed):

78.243 3920.126 1.000 3920.126 No

Total Existing Pavement: 78.243 3920.126 1.000 3920.126

Volumes - Cut: 7.529 406.074 1.000 406.074 Yes

Volumes - Fill: 73.838 3539.361 1.000 3539.361 Yes

Milling: 0.833 42.329 1.000 42.329 No

HMA Pavement Base 2: 3.640 181.178 1.000 181.178 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.430 71.151 1.000 71.151 No

Base Aggregate Shoulder: 24.605 1215.235 1.000 1215.235 No

HMA Pavement Base 3: 3.765 187.428 1.000 187.428 No

HMA Pavement Base 1: 2.343 116.621 1.000 116.621 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **61** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Rip Rap: 0.517 12.928 1.000 12.928 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Volumes Report Page 33 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.058 661.461 1.000 661.461 No

15250.000 -80488.786

Existing Pavement

(removed):

78.242 3912.127 1.000 3912.127 No

Total Existing Pavement: 78.242 3912.127 1.000 3912.127

Volumes - Cut: 8.227 393.913 1.000 393.913 Yes

Volumes - Fill: 75.389 3730.693 1.000 3730.693 Yes

Milling: 0.826 41.489 1.000 41.489 No

HMA Pavement Base 2: 3.662 182.541 1.000 182.541 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.439 71.719 1.000 71.719 No

Base Aggregate Shoulder: 24.775 1234.503 1.000 1234.503 No

HMA Pavement Base 3: 3.787 188.791 1.000 188.791 No

HMA Pavement Base 1: 2.358 117.530 1.000 117.530 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **62** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Rip Rap: 5.966 162.082 1.000 162.082 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.881 648.465 1.000 648.465 No

15300.000 -84215.958

Existing Pavement

(removed):

78.045 3907.191 1.000 3907.191 No

Total Existing Pavement: 78.045 3907.191 1.000 3907.191

Volumes - Cut: 8.902 428.247 1.000 428.247 Yes

Volumes - Fill: 90.827 4155.419 1.000 4155.419 Yes

Milling: 0.832 41.453 1.000 41.453 No

HMA Pavement Base 2: 3.691 183.827 1.000 183.827 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.451 72.254 1.000 72.254 No

Base Aggregate Shoulder: 24.481 1231.404 1.000 1231.404 No

HMA Pavement Base 3: 3.816 190.077 1.000 190.077 No

HMA Pavement Base 1: 2.378 118.387 1.000 118.387 No

Rip Rap: 11.749 442.884 1.000 442.884 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.655 638.382 1.000 638.382 No

15350.000 -87680.393

Volumes Report Page 34 of 40

Station Type Area Volume Factor

Adjusted

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **63** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement

(removed):

77.930 3899.394 1.000 3899.394 No

Total Existing Pavement: 77.930 3899.394 1.000 3899.394

Volumes - Cut: 8.100 425.057 1.000 425.057 Yes

Volumes - Fill: 64.752 3889.492 1.000 3889.492 Yes

Milling: 0.834 41.644 1.000 41.644 No

HMA Pavement Base 2: 3.695 184.660 1.000 184.660 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.453 72.601 1.000 72.601 No

Base Aggregate Shoulder: 24.296 1219.424 1.000 1219.424 No

HMA Pavement Base 3: 3.820 190.910 1.000 190.910 No

HMA Pavement Base 1: 2.380 118.942 1.000 118.942 No

Rip Rap: 30.320 1051.718 1.000 1051.718 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.943 639.943 1.000 639.943 No

15400.000 -90075.059

Existing Pavement

(removed):

78.072 3900.066 1.000 3900.066 No

Total Existing Pavement: 78.072 3900.066 1.000 3900.066

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **64** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Cut: 7.933 400.818 1.000 400.818 Yes

Volumes - Fill: 47.067 2795.484 1.000 2795.484 Yes

Milling: 0.819 41.323 1.000 41.323 No

HMA Pavement Base 2: 3.701 184.907 1.000 184.907 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.455 72.704 1.000 72.704 No

Base Aggregate Shoulder: 24.317 1215.320 1.000 1215.320 No

HMA Pavement Base 3: 3.826 191.157 1.000 191.157 No

HMA Pavement Base 1: 2.384 119.107 1.000 119.107 No

Rip Rap: 37.322 1691.038 1.000 1691.038 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 13.405 658.708 1.000 658.708 No

15450.000 -90524.762

Existing Pavement

(removed):

78.146 3905.460 1.000 3905.460 No

Total Existing Pavement: 78.146 3905.460 1.000 3905.460

Volumes - Cut: 29.173 927.656 1.000 927.656 Yes

Volumes Report Page 35 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **65** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ordinate

Volumes - Fill: 8.027 1377.358 1.000 1377.358 Yes

Milling: 0.784 40.067 1.000 40.067 No

HMA Pavement Base 2: 3.614 182.874 1.000 182.874 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.419 71.857 1.000 71.857 No

Base Aggregate Shoulder: 24.276 1214.813 1.000 1214.813 No

HMA Pavement Base 3: 3.739 189.124 1.000 189.124 No

HMA Pavement Base 1: 2.326 117.752 1.000 117.752 No

Rip Rap: 3.793 1027.864 1.000 1027.864 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.001 335.155 1.000 335.155 No

15500.000 -90222.442

Existing Pavement

(removed):

78.504 3916.258 1.000 3916.258 No

Total Existing Pavement: 78.504 3916.258 1.000 3916.258

Volumes - Cut: 7.943 927.912 1.000 927.912 Yes

Volumes - Fill: 16.996 625.592 1.000 625.592 Yes

Milling: 0.751 38.358 1.000 38.358 No

HMA Pavement Base 2: 3.317 173.271 1.000 173.271 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.295 67.856 1.000 67.856 No

Base Aggregate Shoulder: 23.281 1188.934 1.000 1188.934 No

HMA Pavement Base 3: 3.442 179.521 1.000 179.521 No

HMA Pavement Base 1: 2.128 111.350 1.000 111.350 No

Rip Rap: 0.000 94.815 1.000 94.815 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **66** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 8.702 217.568 1.000 217.568 No

15550.000 -91363.197

Existing Pavement

(removed):

78.218 3918.054 1.000 3918.054 No

Total Existing Pavement: 78.218 3918.054 1.000 3918.054

Volumes - Cut: 8.220 404.081 1.000 404.081 Yes

Volumes - Fill: 44.797 1544.836 1.000 1544.836 Yes

Milling: 0.731 37.042 1.000 37.042 No

HMA Pavement Base 2: 2.913 155.746 1.000 155.746 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 1.127 60.554 1.000 60.554 No

Volumes Report Page 36 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Base Aggregate Shoulder: 21.843 1128.112 1.000 1128.112 No

HMA Pavement Base 3: 3.038 161.996 1.000 161.996 No

HMA Pavement Base 1: 1.859 99.666 1.000 99.666 No

Rip Rap: 19.242 481.038 1.000 481.038 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **67** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.674 534.404 1.000 534.404 No

15600.000 -92814.645

Existing Pavement

(removed):

78.239 3911.427 1.000 3911.427 No

Total Existing Pavement: 78.239 3911.427 1.000 3911.427

Volumes - Cut: 8.608 420.713 1.000 420.713 Yes

Volumes - Fill: 30.089 1872.161 1.000 1872.161 Yes

Milling: 0.737 36.713 1.000 36.713 No

HMA Pavement Base 2: 2.400 132.831 1.000 132.831 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.913 51.006 1.000 51.006 No

Base Aggregate Shoulder: 20.244 1052.168 1.000 1052.168 No

HMA Pavement Base 3: 2.525 139.081 1.000 139.081 No

HMA Pavement Base 1: 1.517 84.388 1.000 84.388 No

Rip Rap: 0.000 481.038 1.000 481.038 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 9.655 558.241 1.000 558.241 No

15650.000 -93198.844

Existing Pavement

(removed):

78.721 3924.001 1.000 3924.001 No

Total Existing Pavement: 78.721 3924.001 1.000 3924.001

Volumes - Cut: 9.926 463.350 1.000 463.350 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **68** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Fill: 3.813 847.549 1.000 847.549 Yes
Milling: 0.758 37.396 1.000 37.396 No
HMA Pavement Base 2: 1.780 104.517 1.000 104.517 No
Cut Slope: 0.000 0.000 1.000 0.000 No
HMA Pavement Surface 1: 0.655 39.209 1.000 39.209 No
Base Aggregate Shoulder: 18.379 965.561 1.000 965.561 No
HMA Pavement Base 3: 1.905 110.767 1.000 110.767 No
HMA Pavement Base 1: 1.103 65.513 1.000 65.513 No
Rip Rap: 0.000 0.000 1.000 0.000 No
Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No
Volumes Report Page 37 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 5.395 376.259 1.000 376.259 No

15698.560 -93050.419

Existing Pavement

(removed):

78.328 3813.159 1.000 3813.159 No

Total Existing Pavement: 78.328 3813.159 1.000 3813.159

Volumes - Cut: 0.000 240.992 1.000 240.992 Yes

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **69** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Fill: 0.000 92.568 1.000 92.568 Yes

Milling: 0.763 36.944 1.000 36.944 No

HMA Pavement Base 2: 0.000 43.223 1.000 43.223 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 15.902 1.000 15.902 No

Base Aggregate Shoulder: 0.000 446.235 1.000 446.235 No

HMA Pavement Base 3: 0.000 46.258 1.000 46.258 No

HMA Pavement Base 1: 0.000 26.793 1.000 26.793 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 4.744 246.175 1.000 246.175 No

15700.000 -93050.419

Existing Pavement

(removed):

78.322 112.788 1.000 112.788 No

Total Existing Pavement: 78.322 112.788 1.000 112.788

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 1.200 1.413 1.000 1.413 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **70** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 1.694 4.636 1.000 4.636 No

15728.250 -93050.419

Volumes Report Page 38 of 40

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement

(removed):

78.158 2210.276 1.000 2210.276 No

Total Existing Pavement: 78.158 2210.276 1.000 2210.276

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 1.200 33.900 1.000 33.900 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **71** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 23.934 1.000 23.934 No

15750.000 -93050.419

Existing Pavement

(removed):

77.927 1697.424 1.000 1697.424 No

Total Existing Pavement: 77.927 1697.424 1.000 1697.424

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Milling: 0.000 13.050 1.000 13.050 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

Rip Rap: 0.000 0.000 1.000 0.000 No

Finished Grade - Top Mesh: 0.000 0.000 1.000 0.000 No

Ditch: 0.000 0.000 1.000 0.000 No

Topsoil: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

Totals:

Existing Pavement

(removed):

517336.375 517336.375 No

0.000 0.000 No

Volumes Report Page 39 of 40

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **72** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass

Ordinate?

Mass

Ordinate

Existing Pavement (removed

and replaced):

Existing Pavement: 517336.379 517336.379 No

Total Existing Pavement: 517336.379 517336.379

Volumes - Cut: 73012.957 73012.957 Yes

Total Volumes - Cut: 73012.957 73012.957

Volumes - Fill: 166063.376 166063.376 Yes

Total Volumes - Fill: 166063.376 166063.376

Milling: 12022.264 12022.264 No

Total Milling: 12022.264 12022.264

Total Fill Slope: 0.000 0.000

HMA Pavement Base 2: 13340.162 13340.162 No

Total HMA Pavement Base 2: 13340.162 13340.162

Cut Slope: 12381.755 12381.755 No

Total Cut Slope: 12381.755 12381.755

HMA Pavement Surface 1: 5149.097 5149.097 No

Total HMA Pavement Surface

1:

5149.097 5149.097

Base Aggregate Shoulder: 102801.515 102801.515 No

Total Base Aggregate

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **73** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Shoulder:

102801.515 102801.515

HMA Pavement Base 3: 13929.557 13929.557 No

Total HMA Pavement Base 3: 13929.557 13929.557

HMA Pavement Base 1: 8500.683 8500.683 No

Total HMA Pavement Base 1: 8500.683 8500.683

Rip Rap: 14079.085 14079.085 No

Total Rip Rap: 14079.085 14079.085

Finished Grade - Top Mesh: 0.000 0.000 No

Total Finished Grade - Top

Mesh:

0.000 0.000

Ditch: 85.382 85.382 No

Total Ditch: 85.382 85.382

Topsoil: 24578.800 24578.800 No

Total Topsoil: 24578.800 24578.800

Topsoil (Removed): 23668.622 23668.622 No

Total Topsoil (Removed): 23668.622 23668.622

Volumes Report Page 40 of 40



Volumes Report

Report Created: Friday, April 10, 2026

Time: 1:08:42 PM

Cross Section Set

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **74** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Name:

RAMP D

Alignment Name: RAMP D

Input Grid Factor:

Note: All units in this report are in feet, square feet and cubic feet unless specified otherwise.

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass Ordinate?

Mass

Ordinate

50018.549 0.000

Milling: 18.500 0.000 1.000 0.000 No

50041.186 623.556

Existing Pavement (removed): 35.456 401.309 1.000 401.309 No

Total Existing Pavement: 35.456 401.309 1.000 401.309

Volumes - Cut: 55.224 625.056 1.000 625.056 Yes

Volumes - Fill: 0.133 1.500 1.000 1.500 Yes

Base Aggregate Shoulder: 18.287 206.986 1.000 206.986 No

Cut Slope: 27.753 314.124 1.000 314.124 No

HMA Pavement Base 2: 2.641 29.896 1.000 29.896 No

HMA Pavement Base 3: 2.766 31.311 1.000 31.311 No

HMA Pavement Base 1: 1.678 18.988 1.000 18.988 No

HMA Pavement Surface 1: 1.014 11.474 1.000 11.474 No

Milling: 4.306 258.129 1.000 258.129 No

Topsoil (Removed): 10.539 119.291 1.000 119.291 No

50050.000 1011.405

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **75** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Existing Pavement (removed): 84.462 528.489 1.000 528.489 No

Total Existing Pavement: 84.462 528.489 1.000 528.489

Volumes - Cut: 33.006 388.840 1.000 388.840 Yes

Volumes - Fill: 0.092 0.991 1.000 0.991 Yes

Base Aggregate Shoulder: 18.081 160.278 1.000 160.278 No

Cut Slope: 16.709 195.949 1.000 195.949 No

HMA Pavement Base 2: 2.526 22.775 1.000 22.775 No

HMA Pavement Base 3: 2.651 23.877 1.000 23.877 No

HMA Pavement Base 1: 1.601 14.449 1.000 14.449 No

HMA Pavement Surface 1: 0.966 8.725 1.000 8.725 No

Milling: 3.620 34.929 1.000 34.929 No

Topsoil (Removed): 11.542 97.314 1.000 97.314 No

50100.000 2068.620

Volumes Report Page 1 of 5

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass Ordinate?

Mass

Ordinate

Existing Pavement (removed): 47.126 3289.684 1.000 3289.684 No

Total Existing Pavement: 47.126 3289.684 1.000 3289.684

Volumes - Cut: 12.517 1138.085 1.000 1138.085 Yes

Volumes - Fill: 3.142 80.870 1.000 80.870 Yes

Base Aggregate Shoulder: 21.301 984.559 1.000 984.559 No

Cut Slope: 1.111 445.491 1.000 445.491 No

HMA Pavement Base 2: 3.348 146.866 1.000 146.866 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **76** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 3: 3.473 153.116 1.000 153.116 No

HMA Pavement Base 1: 2.149 93.746 1.000 93.746 No

HMA Pavement Surface 1: 1.308 56.854 1.000 56.854 No

Milling: 2.944 164.093 1.000 164.093 No

Topsoil (Removed): 12.060 590.047 1.000 590.047 No

50145.790 2215.147

Existing Pavement (removed): 36.761 1920.596 1.000 1920.596 No

Total Existing Pavement: 36.761 1920.596 1.000 1920.596

Volumes - Cut: 13.331 591.785 1.000 591.785 Yes

Volumes - Fill: 16.305 445.258 1.000 445.258 Yes

Base Aggregate Shoulder: 19.521 934.639 1.000 934.639 No

Cut Slope: 0.000 25.430 1.000 25.430 No

HMA Pavement Base 2: 0.000 76.656 1.000 76.656 No

HMA Pavement Base 3: 0.000 79.518 1.000 79.518 No

HMA Pavement Base 1: 0.000 49.197 1.000 49.197 No

HMA Pavement Surface 1: 0.000 29.952 1.000 29.952 No

Concrete Shoulder: 9.874 226.072 1.000 226.072 No

Permeable Base: 4.283 98.060 1.000 98.060 No

Milling: 0.000 67.402 1.000 67.402 No

Topsoil (Removed): 12.065 552.344 1.000 552.344 No

50150.000 2200.102

Existing Pavement (removed): 36.095 153.362 1.000 153.362 No

Total Existing Pavement: 36.095 153.362 1.000 153.362

Volumes - Cut: 13.255 55.963 1.000 55.963 Yes

Volumes - Fill: 17.428 71.008 1.000 71.008 Yes

Base Aggregate Shoulder: 19.428 81.989 1.000 81.989 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **77** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 9.727 41.261 1.000 41.261 No

Permeable Base: 4.224 17.908 1.000 17.908 No

Milling: 0.000 0.000 1.000 0.000 No

Volumes Report Page 2 of 5

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass Ordinate?

Mass

Ordinate

Topsoil (Removed): 12.068 50.800 1.000 50.800 No

50200.000 1960.434

Existing Pavement (removed): 31.729 1695.583 1.000 1695.583 No

Total Existing Pavement: 31.729 1695.583 1.000 1695.583

Volumes - Cut: 12.078 633.334 1.000 633.334 Yes

Volumes - Fill: 17.493 873.002 1.000 873.002 Yes

Base Aggregate Shoulder: 18.962 959.746 1.000 959.746 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 7.955 442.060 1.000 442.060 No

Permeable Base: 3.515 193.490 1.000 193.490 No

Milling: 0.000 0.000 1.000 0.000 No

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **78** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Topsoil (Removed): 12.066 603.356 1.000 603.356 No

50250.000 1537.203

Existing Pavement (removed): 31.279 1575.188 1.000 1575.188 No

Total Existing Pavement: 31.279 1575.188 1.000 1575.188

Volumes - Cut: 9.330 535.194 1.000 535.194 Yes

Volumes - Fill: 20.844 958.426 1.000 958.426 Yes

Base Aggregate Shoulder: 18.085 926.167 1.000 926.167 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 6.337 357.319 1.000 357.319 No

Permeable Base: 2.868 159.594 1.000 159.594 No

Milling: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.062 603.201 1.000 603.201 No

50300.000 1262.230

Existing Pavement (removed): 30.988 1556.675 1.000 1556.675 No

Total Existing Pavement: 30.988 1556.675 1.000 1556.675

Volumes - Cut: 12.971 557.519 1.000 557.519 Yes

Volumes - Fill: 12.455 832.491 1.000 832.491 Yes

Base Aggregate Shoulder: 19.895 949.487 1.000 949.487 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

Volumes Report Page 3 of 5

Station Type Area Volume Factor

Adjusted

Volume

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **79** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Included in

Mass Ordinate?

Mass

Ordinate

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 4.830 279.187 1.000 279.187 No

Permeable Base: 2.265 128.342 1.000 128.342 No

Milling: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 12.058 602.990 1.000 602.990 No

50322.100 1267.932

Existing Pavement (removed): 30.798 682.734 1.000 682.734 No

Total Existing Pavement: 30.798 682.734 1.000 682.734

Volumes - Cut: 0.000 143.331 1.000 143.331 Yes

Volumes - Fill: 0.000 137.629 1.000 137.629 Yes

Base Aggregate Shoulder: 0.000 219.835 1.000 219.835 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 0.000 53.373 1.000 53.373 No

Permeable Base: 0.000 25.033 1.000 25.033 No

Milling: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 133.239 1.000 133.239 No

50350.000 1267.932

Existing Pavement (removed): 30.674 857.524 1.000 857.524 No

Total Existing Pavement: 30.674 857.524 1.000 857.524

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **80** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Volumes - Cut: 0.000 0.000 1.000 0.000 Yes

Volumes - Fill: 0.000 0.000 1.000 0.000 Yes

Base Aggregate Shoulder: 0.000 0.000 1.000 0.000 No

Cut Slope: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 2: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 3: 0.000 0.000 1.000 0.000 No

HMA Pavement Base 1: 0.000 0.000 1.000 0.000 No

HMA Pavement Surface 1: 0.000 0.000 1.000 0.000 No

Concrete Shoulder: 0.000 0.000 1.000 0.000 No

Permeable Base: 0.000 0.000 1.000 0.000 No

Milling: 0.000 0.000 1.000 0.000 No

Topsoil (Removed): 0.000 0.000 1.000 0.000 No

Totals:

Existing Pavement (removed): 12661.145 12661.145 No

Volumes Report Page 4 of 5

Station Type Area Volume Factor

Adjusted

Volume

Included in

Mass Ordinate?

Mass

Ordinate

Existing Pavement: 12661.145 12661.145 No

Total Existing Pavement: 12661.145 12661.145

Volumes - Cut: 4669.109 4669.109 Yes

Total Volumes - Cut: 4669.109 4669.109

Volumes - Fill: 3401.177 3401.177 Yes

Total Volumes - Fill: 3401.177 3401.177

GRADING REPORT

COMPUTED BY: Caleb Jeavons
CHECKED BY: Megan Wildes
FEDERAL PROJECT NO: n/a
ROUTE NO. OR STREET: I-24

SHEET **81** OF **81**
STATE NO.: 31I024-S3-002
PIN: 132953.00
COUNTY: Grundy

Total Fill Slope: 0.000 0.000

Base Aggregate Shoulder: 5423.686 5423.686 No

Total Base Aggregate Shoulder: 5423.686 5423.686

Cut Slope: 980.994 980.994 No

Total Cut Slope: 980.994 980.994

HMA Pavement Base 2: 276.193 276.193 No

Total HMA Pavement Base 2: 276.193 276.193

HMA Pavement Base 3: 287.821 287.821 No

Total HMA Pavement Base 3: 287.821 287.821

HMA Pavement Base 1: 176.380 176.380 No

Total HMA Pavement Base 1: 176.380 176.380

HMA Pavement Surface 1: 107.005 107.005 No

Total HMA Pavement Surface 1: 107.005 107.005

Concrete Shoulder: 1399.271 1399.271 No

Total Concrete Shoulder: 1399.271 1399.271

Permeable Base: 622.427 622.427 No

Total Permeable Base: 622.427 622.427

Milling: 524.552 524.552 No

Total Milling: 524.552 524.552

Total Topsoil: 0.000 0.000

Topsoil (Removed): 3352.582 3352.582 No

Total Topsoil (Removed): 3352.582 3352.582

Volumes Report Page 5 of 5