



Riverbend Apartments

| Storm Water Pollution Protection | | |
|----------------------------------|------------|-------------|
| Structure | Count (EA) | Length (LF) |
| Inlet Protection | 24 | |
| | | |
| Silt Fence | | 3,835 |
| | | |
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| Demolition | | | |
|--------------------------------|------------|----------------|--------------|
| Structures - | Depth (FT) | Area (SF) | Cut (CY) |
| Clear & Grub Topsoil Strip | 0.50 | 239,008 | 4,426 |
| | | | |
| Topsoil Strip (No Clearing) | 0.5 | 53,387 | 989 |
| | | | |
| Path Removal | 0.7 | 1,477 | 41 |
| | | | |
| | | | |
| Totals | | 293,872 | 5,456 |

| | |
|---------------------|----------|
| Total Topsoil Strip | 5,415 CY |
|---------------------|----------|

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Riverbend Apartments

| Earthwork | | | | | | | | | | | | | |
|------------------|---------------------|-----------|----------|-----------|--------------------|--------------------|-------------------|---------------------|-------------------|------------------|---------------|---------------|--------------|
| Structures - | Subgrade Depth (FT) | Area (SF) | Cut (CY) | Fill (CY) | Import/Export (CY) | 9.5mm Asphalt (TN) | 19mm Asphalt (TN) | Porous Asphalt (TN) | No. 57 Stone (CY) | No. 2 Stone (CY) | Sub Base (CY) | Concrete (CY) | Topsoil (CY) |
| Building Pads | 1.00 | 52,092 | 30 | 3,809 | -3,779 | | | | | | | | |
| Curb | 1.50 | 4,176 | 15 | 202 | -187 | | | | | | | | |
| Paving - Asphalt | 0.92 | 58,735 | 115 | 4,971 | -4,856 | 1,204 | 2,177 | | | | 2,155 | | |
| Pervious Paving | 2.61 | 60,289 | 1,239 | 688 | 551 | | | 1,117 | 123 | 4,165 | | | |
| Sidewalk | 0.67 | 24,301 | 23 | 1,998 | -1,975 | | | | | | 325 | 325 | |
| Topsoil Respread | 0.50 | 151,920 | 567 | 4,793 | -4,226 | | | | | | | | 2,299 |
| | | | | | | | | | | | | | |
| Totals | | 351,513 | 1,989 | 16,461 | -14,472 | 1,204 | 2,177 | 1,117 | 123 | 4,165 | 2,480 | 325 | 2,299 |

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*Asphalt Tonnages use a multiplier of 0.075
Example = 1,000 SF X 0.25 FT X 0.075 = 19 TN



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| Storm Pipe | | | | | | | | | Depth (FT) | | | | | | | |
|--------------|------------|--------------------|-------------|-----------------|---------------|--------------|------------|-------------|------------|---------|-------|-------|-------|-------|-------|-------|
| Structure | Count (EA) | Average Depth (FT) | Length (FT) | Excavation (CY) | Backfill (CY) | Bedding (CY) | Cover (CY) | Export (CY) | 0-4 | 4-6 | 6-8 | 8-10 | 10-12 | 12-14 | 14+ | Above |
| 6" HDPE | | 3.2 | 115.7 | 73.2 | 55.1 | 10.7 | 3.9 | 16.0 | 98.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8" Cleanout | 9 | | | | | | | | | | | | | | | |
| 8" HDPE | | 3.3 | 875.0 | 660.4 | 478.7 | 98.5 | 37.4 | 148.3 | 688.9 | 207.7 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10" Cleanout | 1 | | | | | | | | | | | | | | | |
| 10" HDPE | | 3.7 | 142.9 | 130.8 | 111.2 | 15.0 | 4.5 | 27.2 | 101.5 | 8.2 | 47.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12" HDPE | | 4.4 | 55.8 | 175.5 | 160.3 | 8.0 | 3.5 | 15.3 | 0.0 | 0.0 | 62.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18" RCP | | 5.7 | 2,324.8 | 2,987.4 | 1,858.0 | 323.6 | 176.4 | 679.4 | 988.8 | 1,398.2 | 345.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24" HDPE | | 11.8 | 550.0 | 2,656.9 | 2,198.1 | 96.7 | 25.0 | 217.8 | 0.0 | 47.6 | 0.0 | 485.0 | 9.4 | 0.0 | 0.0 | 0.0 |
| 30" Cleanout | 3 | | | | | | | | | | | | | | | |
| 30" RCP | | 15.3 | 923.3 | 7,942.5 | 7,071.7 | 188.9 | 65.3 | 488.9 | 42.6 | 15.4 | 44.8 | 120.4 | 325.4 | 233.4 | 163.5 | 0.0 |
| 48" Manhole | 15 | 3.3 | | | | | | | 2.0 | 77.2 | 9.0 | 2.4 | 1.1 | 1.4 | 0.0 | 0.0 |
| 60" Manhole | 8 | 9.8 | | | | | | | 0.0 | 2.4 | 1.1 | 2.7 | 0.0 | 1.9 | 1.9 | 0.0 |
| Headwall | 6 | | | | | | | | | | | | | | | |
| Type A Inlet | 9 | 3.1 | | | | | | | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Type B Inlet | 12 | 3.1 | | | | | | | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Type E Inlet | 5 | 6.6 | | | | | | | 1.1 | 0.0 | 2.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yard Drain | 3 | 4.0 | | | | | | | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Totals | | | 4,987.5 | 14,626.6 | 11,933.1 | 741.4 | 315.9 | 1,592.9 | 1,942.6 | 1,772.6 | 514.4 | 613.2 | 335.9 | 236.7 | 165.4 | 0.0 |

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| Sewer Pipe | | | | | | | | | Depth (FT) | | | | | | | |
|-------------------|------------|--------------------|-------------|-----------------|---------------|--------------|------------|-------------|------------|---------|-------|-------|-------|-------|-----|-------|
| Structure | Count (EA) | Average Depth (FT) | Length (FT) | Excavation (CY) | Backfill (CY) | Bedding (CY) | Cover (FT) | Export (CY) | 0-4 | 4-6 | 6-8 | 8-10 | 10-12 | 12-14 | 14+ | Above |
| 4" PVC | | 4.4 | 287.1 | 353.2 | 241.4 | 12.3 | 22.1 | 33.3 | 0.0 | 157.8 | 30.9 | 55.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8" SDR 35 | | 7.0 | 1,497.6 | 2,868.5 | 0.0 | 83.2 | 2,757.4 | 2,868.5 | 26.3 | 434.0 | 583.9 | 442.5 | 10.9 | 0.0 | 0.0 | 0.0 |
| 6" SDR 35 | | 3.3 | 659.5 | 534.8 | 0.0 | 30.9 | 503.8 | 534.7 | 55.8 | 415.2 | 99.0 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6" Cleanout | 12 | | | | | | | | | | | | | | | |
| 48" Manhole | 11 | 4.4 | | | | | | | 1.3 | 4.9 | 5.2 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4" 45 Degree Bend | 2 | | | | | | | | | | | | | | | |
| 6" 45 Degree Bend | 2 | | | | | | | | | | | | | | | |
| 8" to 6" Tee | 10 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Totals | | | 2,444.2 | 3,756.5 | 241.4 | 126.4 | 3,283.3 | 3,436.5 | 83.4 | 1,011.9 | 719.0 | 512.4 | 10.9 | 0.0 | 0.0 | 0.0 |

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| Water Pipe | | | | | | | | | Depth | | | | | | | |
|------------------------|------------|--------------------|-------------|-----------------|---------------|--------------|------------|-------------|---------|-------|-----|------|-------|-------|-----|-------|
| Structure | Count (EA) | Average Depth (FT) | Length (FT) | Excavation (CY) | Backfill (CY) | Bedding (CY) | Cover (FT) | Export (CY) | 0-4 | 4-6 | 6-8 | 8-10 | 10-12 | 12-14 | 14+ | Above |
| 8" Water Main | | 3.4 | 1,775.0 | 915.9 | 0.0 | 97.7 | 790.9 | 915.7 | 1,176.0 | 744.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6" Lateral | | 3.1 | 911.2 | 350.5 | 0.0 | 42.2 | 315.9 | 371.1 | 796.3 | 97.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6" 45 Degree Bend | 1 | | | | | | | | | | | | | | | |
| 6" x 8" Tee | 15 | | | | | | | | | | | | | | | |
| 8" 11.25 Degree Bend | 4 | | | | | | | | | | | | | | | |
| 8" 22.5 Degree Bend | 13 | | | | | | | | | | | | | | | |
| 8" 45 Degree Bend | 6 | | | | | | | | | | | | | | | |
| 8" Gate Valve | 3 | | | | | | | | | | | | | | | |
| Connection to Existing | 1 | | | | | | | | | | | | | | | |
| Hydrant | 1 | | | | | | | | | | | | | | | |
| Meter Pit | 17 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Totals | | | 2,686.3 | 1,266.4 | 0.0 | 139.9 | 1,106.8 | 1,286.8 | 1,972.3 | 841.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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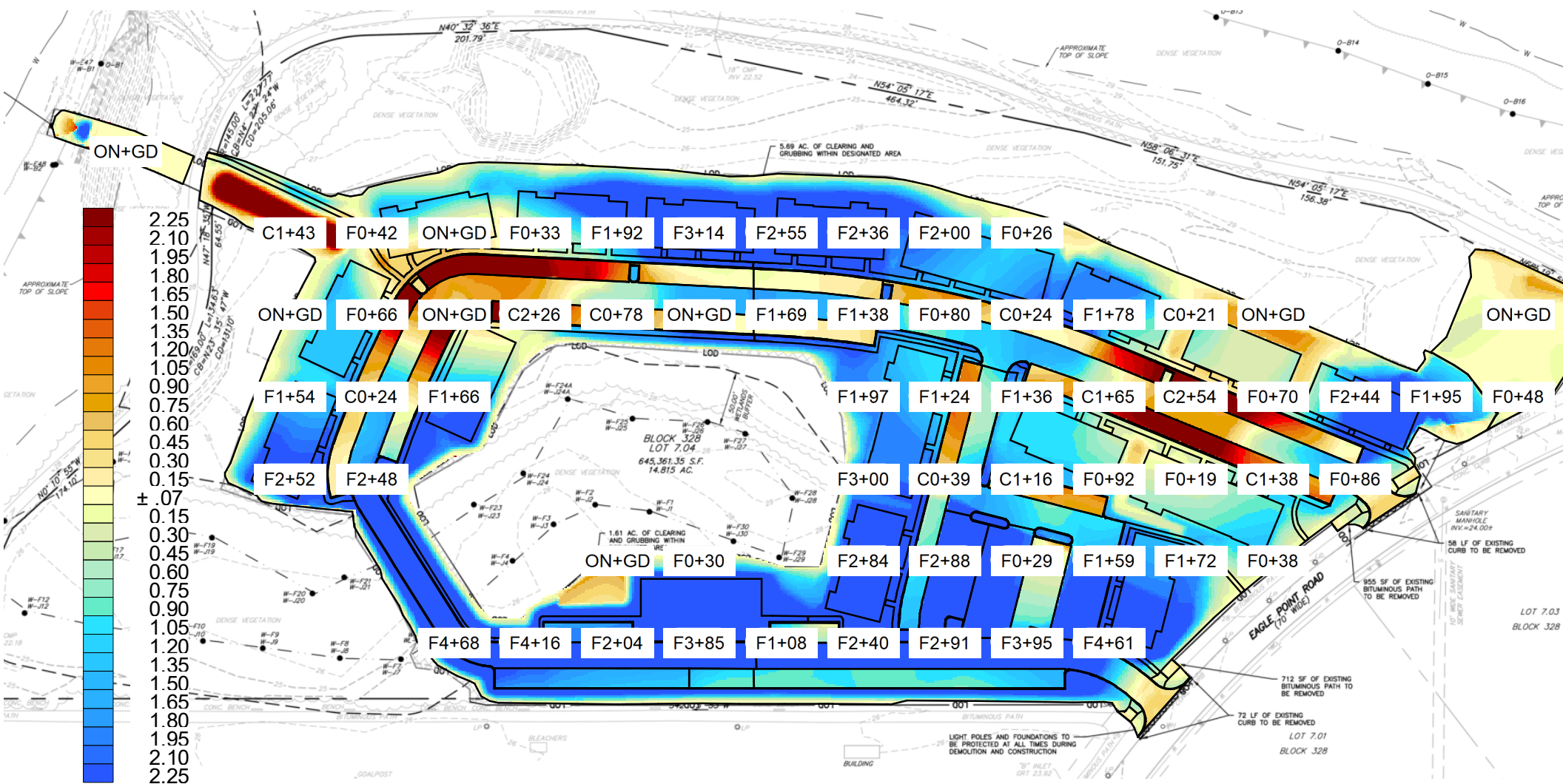
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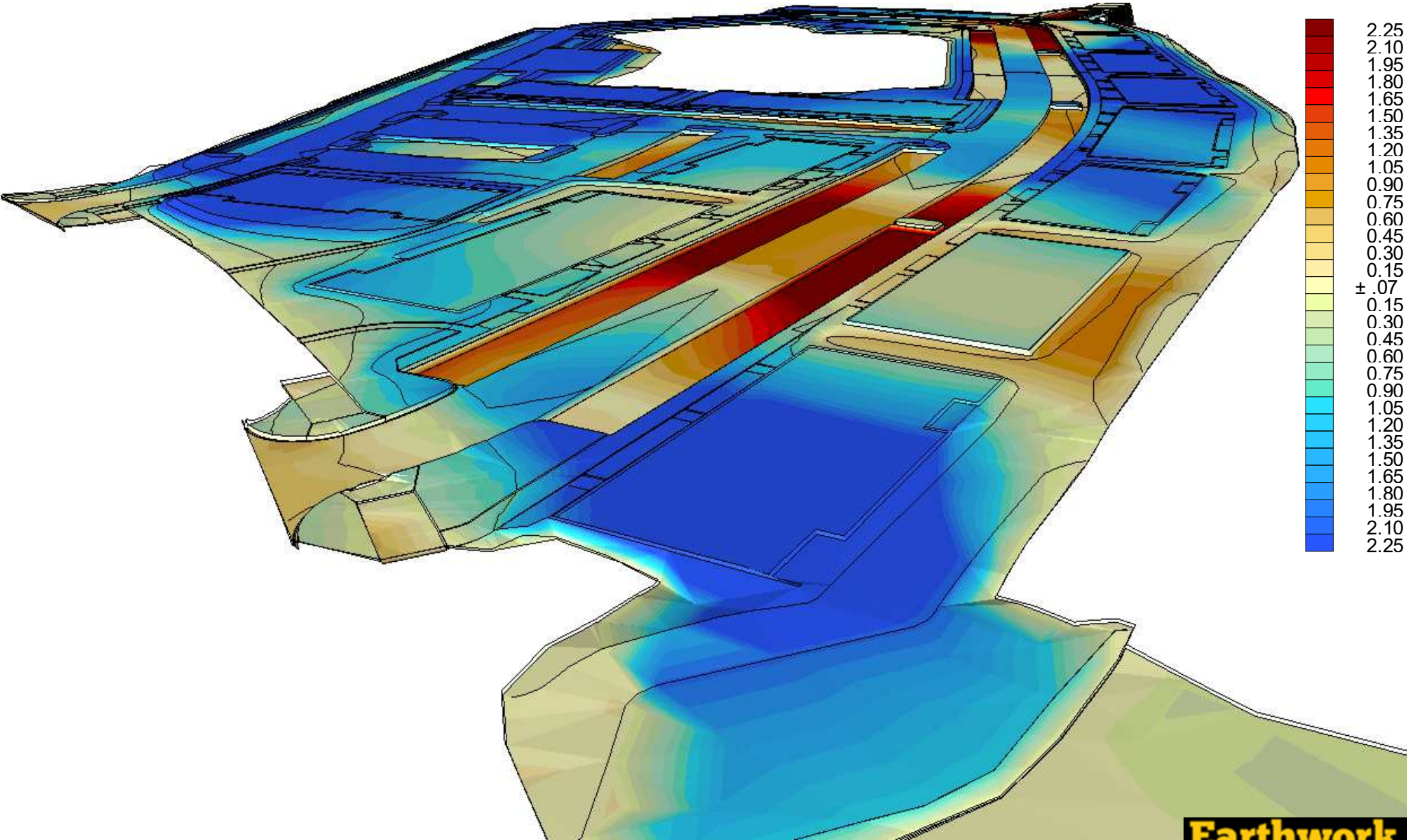
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Alterra Riverwinds



Alterra Riverwinds



Alterra Riverwinds

