

## Table ENG-4. - Building Site Development

Louisa County, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>AbB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Abell                    | 85              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Depth to saturated zone            | 0.99  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Colfax                   | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Worsham                  | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>AcB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Abell                    | 85              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Depth to saturated zone            | 0.99  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Lignum                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Roanoke                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Worsham                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>AeB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Abell                    | 85              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Depth to saturated zone            | 0.83  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Lignum                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Roanoke                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Worsham                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>AIB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Altavista                | 85              | Not limited                        |       | Very limited                       |       | Not limited                        |       |
|                          |                 |                                    |       | Depth to saturated zone            | 1.00  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Wickham                  | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fork                     | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>AnB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Appling                  | 95              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| AnB2:                    |                 |                                    |       |                                    |       |                                    |       |
| Colfax                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| AnC2:                    |                 |                                    |       |                                    |       |                                    |       |
| Appling                  | 85              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Colfax                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Iredell                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| ApB3:                    |                 |                                    |       |                                    |       |                                    |       |
| Appling                  | 85              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Cecil                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Wedowee                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| ArC3:                    |                 |                                    |       |                                    |       |                                    |       |
| Appling                  | 40              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Wedowee                  | 35              | Somewhat limited                   |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Slope                              | 0.37  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Ashlar                   | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Cecil                    | 6               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Durham                   | 6               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Sekil                    | 6               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| AsB:                     |                 |                                    |       |                                    |       |                                    |       |
| Ashlar                   | 85              | Somewhat limited                   |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Depth to hard bedrock              | 0.16  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 0.16  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  | Droughty                           | 0.07  |
| Appling                  | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |

## Table ENG-4. - Building Site Development - Continued

Louisa County, Virginia

| Map Symbol<br>and Soil Name | Pct<br>of<br>Map<br>Unit | Local Roads<br>and Streets            |       | Shallow<br>Excavations                |       | Lawns and<br>Landscaping              |       |
|-----------------------------|--------------------------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|
|                             |                          | Rating Class and<br>Limiting Features | Value | Rating Class and<br>Limiting Features | Value | Rating Class and<br>Limiting Features | Value |
| <b>AsB:</b>                 |                          |                                       |       |                                       |       |                                       |       |
| Grover                      | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Wedowee                     | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Abell                       | 3                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>AsC:</b>                 |                          |                                       |       |                                       |       |                                       |       |
| Ashlar                      | 85                       | Somewhat limited                      |       | Very limited                          |       | Somewhat limited                      |       |
|                             |                          | Slope                                 | 0.37  | Depth to hard bedrock                 | 1.00  | Slope                                 | 0.37  |
|                             |                          | Depth to hard bedrock                 | 0.16  | Slope                                 | 0.37  | Depth to bedrock                      | 0.16  |
|                             |                          |                                       |       | Cutbanks cave                         | 0.10  | Droughty                              | 0.07  |
| Appling                     | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Grover                      | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Wedowee                     | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Abell                       | 3                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>AsC3:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Ashlar                      | 85                       | Somewhat limited                      |       | Very limited                          |       | Somewhat limited                      |       |
|                             |                          | Slope                                 | 0.37  | Depth to hard bedrock                 | 1.00  | Slope                                 | 0.37  |
|                             |                          | Depth to hard bedrock                 | 0.16  | Slope                                 | 0.37  | Depth to bedrock                      | 0.16  |
|                             |                          |                                       |       | Cutbanks cave                         | 0.10  | Droughty                              | 0.07  |
| Appling                     | 6                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Grover                      | 6                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Rock outcrop                | 3                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>AsD:</b>                 |                          |                                       |       |                                       |       |                                       |       |
| Ashlar                      | 85                       | Very limited                          |       | Very limited                          |       | Very limited                          |       |
|                             |                          | Slope                                 | 1.00  | Depth to hard bedrock                 | 1.00  | Slope                                 | 1.00  |
|                             |                          | Depth to hard bedrock                 | 0.16  | Slope                                 | 1.00  | Depth to bedrock                      | 0.16  |
|                             |                          |                                       |       | Cutbanks cave                         | 0.10  | Droughty                              | 0.07  |
| Appling                     | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Grover                      | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Wedowee                     | 4                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Rock outcrop                | 3                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>AsD3:</b>                |                          |                                       |       |                                       |       |                                       |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>AsD3:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Ashlar                   | 95              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Depth to hard bedrock              | 1.00  | Slope                              | 1.00  |
|                          |                 | Depth to hard bedrock              | 0.16  | Slope                              | 1.00  | Depth to bedrock                   | 0.16  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  | Droughty                           | 0.07  |
| Rock outcrop             | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>AV:</b>               |                 |                                    |       |                                    |       |                                    |       |
| Ashlar                   | 35              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Depth to hard bedrock              | 1.00  | Slope                              | 1.00  |
|                          |                 | Depth to hard bedrock              | 0.16  | Cutbanks cave                      | 1.00  | Depth to bedrock                   | 0.16  |
|                          |                 |                                    |       | Slope                              | 1.00  | Droughty                           | 0.07  |
| Manteo                   | 30              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Droughty                           | 1.00  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  | Slope                              | 1.00  |
| Rock outcrop             | 25              | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Appling                  | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Grover                   | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Nason                    | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>CcB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Cecil                    | 90              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
| Cullen                   | 6               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Abell                    | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>CcC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Cecil                    | 95              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Slope                              | 0.37  | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>CeB3:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Cecil                    | 90              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.72  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Pacolet                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>CfC3:</b>             |                 |                                    |       |                                    |       |                                    |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets  |                      | Shallow Excavations   |                      | Lawns and Landscaping  |                      |
|--------------------------|-----------------|--|----------------------|---|----------------------|--|----------------------|
|                          |                 | Rating Class and Limiting Features                                     | Value                | Rating Class and Limiting Features  | Value                | Rating Class and Limiting Features   | Value                |
| <b>CfC3:</b>             |                 |  |                      |   |                      |  |                      |
| Cecil                    | 45              | Very limited<br>Low strength<br>Slope                                  | 1.00<br>0.37         | Somewhat limited<br>Too clayey<br>Slope<br>Cutbanks cave                                | 0.72<br>0.37<br>0.10 | Somewhat limited<br>Slope  | 0.37                 |
| Pacolet                  | 35              | Very limited<br>Low strength<br>Slope                                  | 1.00<br>0.37         | Somewhat limited<br>Too clayey<br>Slope<br>Cutbanks cave                                | 0.50<br>0.37<br>0.10 | Somewhat limited<br>Slope  | 0.37                 |
| Cullen                   | 7               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| Madison                  | 7               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| Abell                    | 6               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| <b>CfL:</b>              |                 |  |                      |   |                      |  |                      |
| Cut and fill land        | 100             | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| <b>Ch:</b>               |                 |  |                      |   |                      |  |                      |
| Chewacla                 | 85              | Very limited<br>Flooding<br>Low strength<br>Depth to saturated zone    | 1.00<br>1.00<br>0.78 | Very limited<br>Depth to saturated zone<br>Flooding<br>Cutbanks cave                    | 1.00<br>0.80<br>0.10 | Very limited<br>Flooding<br>Depth to saturated zone                          | 1.00<br>0.78         |
| Congaree                 | 8               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| Wehadkee                 | 7               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| <b>CIB:</b>              |                 |  |                      |   |                      |  |                      |
| Colfax                   | 85              | Very limited<br>Depth to saturated zone<br>Depth to thick cemented pan | 0.99<br>0.65         | Very limited<br>Depth to thick cemented pan<br>Depth to saturated zone<br>Cutbanks cave | 1.00<br>1.00<br>0.10 | Very limited<br>Depth to saturated zone<br>Depth to cemented pan<br>Droughty | 0.99<br>0.64<br>0.17 |
| Durham                   | 8               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| Worsham                  | 7               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |
| <b>Cn:</b>               |                 |  |                      |   |                      |  |                      |
| Congaree                 | 85              | Very limited<br>Flooding<br>Low strength                               | 1.00<br>1.00         | Somewhat limited<br>Flooding<br>Depth to saturated zone<br>Cutbanks cave                | 0.60<br>0.18<br>0.10 | Somewhat limited<br>Flooding   | 0.60                 |
| Chewacla                 | 8               | Not Rated  |                      | Not Rated   |                      | Not Rated  |                      |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets   |                      | Shallow Excavations  |                      | Lawns and Landscaping                               |              |
|--------------------------|-----------------|---|----------------------|--|----------------------|---|--------------|
|                          |                 | Rating Class and Limiting Features                                  | Value                | Rating Class and Limiting Features                                       | Value                | Rating Class and Limiting Features                  | Value        |
| Cn:                      |                 |   |                      |  |                      |   |              |
| Toccoa                   | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| CO:                      |                 |   |                      |  |                      |   |              |
| Congaree                 | 45              | Very limited<br>Flooding<br>Low strength                            | 1.00<br>1.00         | Somewhat limited<br>Flooding<br>Depth to saturated zone<br>Cutbanks cave | 0.60<br>0.18<br>0.10 | Somewhat limited<br>Flooding                        | 0.60         |
| Chewacla                 | 40              | Very limited<br>Flooding<br>Low strength<br>Depth to saturated zone | 1.00<br>1.00<br>0.78 | Very limited<br>Depth to saturated zone<br>Flooding<br>Cutbanks cave     | 1.00<br>0.80<br>0.10 | Very limited<br>Flooding<br>Depth to saturated zone | 1.00<br>0.78 |
| Toccoa                   | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Wehadkee                 | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| CuB2:                    |                 |   |                      |  |                      |   |              |
| Cullen                   | 85              | Very limited<br>Low strength<br>Shrink-swell                        | 1.00<br>0.50         | Somewhat limited<br>Cutbanks cave  | 0.10                 | Not limited   |              |
| Abell                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Enon                     | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Mecklenburg              | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| CuC2:                    |                 |   |                      |  |                      |   |              |
| Cullen                   | 85              | Very limited<br>Low strength<br>Shrink-swell<br>Slope               | 1.00<br>0.50<br>0.37 | Somewhat limited<br>Slope<br>Cutbanks cave                               | 0.37<br>0.10         | Somewhat limited<br>Slope                           | 0.37         |
| Abell                    | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Poindexter               | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| CwB3:                    |                 |   |                      |  |                      |   |              |
| Cullen                   | 85              | Very limited<br>Low strength<br>Shrink-swell                        | 1.00<br>0.50         | Somewhat limited<br>Cutbanks cave  | 0.10                 | Not limited   |              |
| Cecil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Tatum                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Turbeville               | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets   |                      | Shallow Excavations                                      |                      | Lawns and Landscaping                   |       |
|--------------------------|-----------------|---|----------------------|--|----------------------|---|-------|
|                          |                 | Rating Class and Limiting Features                                      | Value                | Rating Class and Limiting Features                       | Value                | Rating Class and Limiting Features      | Value |
| <b>CwC3:</b>             |                 |   |                      |  |                      |   |       |
| Cullen                   | 85              | Very limited<br>Low strength<br>Shrink-swell<br>Slope                   | 1.00<br>0.50<br>0.37 | Somewhat limited<br>Slope<br>Cutbanks cave               | 0.37<br>0.10         | Somewhat limited<br>Slope               | 0.37  |
| Fluvanna                 | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| Poindexter               | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| <b>DuB:</b>              |                 |   |                      |  |                      |   |       |
| Durham                   | 85              | Not limited   |                      | Somewhat limited<br>Cutbanks cave                        | 0.10                 | Not limited                             |       |
| Appling                  | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| Colfax                   | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| <b>Eb:</b>               |                 |   |                      |  |                      |   |       |
| Elbert                   | 85              | Very limited<br>Depth to saturated zone<br>Shrink-swell<br>Low strength | 1.00<br>1.00<br>1.00 | Very limited<br>Depth to saturated zone<br>Cutbanks cave | 1.00<br>1.00         | Very limited<br>Depth to saturated zone | 1.00  |
| Iredell                  | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| Zion                     | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| <b>FIB2:</b>             |                 |   |                      |  |                      |   |       |
| Fluvanna                 | 85              | Very limited<br>Low strength<br>Shrink-swell                            | 1.00<br>0.50         | Somewhat limited<br>Too clayey<br>Cutbanks cave          | 0.50<br>0.10         | Not limited                             |       |
| Cullen                   | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| Orange                   | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| <b>FIC2:</b>             |                 |   |                      |  |                      |   |       |
| Fluvanna                 | 85              | Very limited<br>Low strength<br>Shrink-swell<br>Slope                   | 1.00<br>0.50<br>0.37 | Somewhat limited<br>Too clayey<br>Slope<br>Cutbanks cave | 0.50<br>0.37<br>0.10 | Somewhat limited<br>Slope               | 0.37  |
| Nason                    | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| Sekil                    | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated                               |       |
| <b>FN:</b>               |                 |   |                      |  |                      |   |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| FN:                      |                 |                                    |       |                                    |       |                                    |       |
| Fluvaquents              | 90              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Flooding                           | 1.00  | Depth to saturated zone            | 1.00  | Flooding                           | 1.00  |
|                          |                 | Depth to saturated zone            | 1.00  | Cutbanks cave                      | 1.00  | Depth to saturated zone            | 1.00  |
|                          |                 |                                    |       | Flooding                           | 0.80  |                                    |       |
| Shallow water            | 10              | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fo:                      |                 |                                    |       |                                    |       |                                    |       |
| Forestdale               | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 1.00  |
|                          |                 | Flooding                           | 1.00  | Flooding                           | 0.60  | Flooding                           | 0.60  |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.28  |                                    |       |
| Fork                     | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Wehadkee                 | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| FrB:                     |                 |                                    |       |                                    |       |                                    |       |
| Fork                     | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Flooding                           | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.78  |
|                          |                 | Low strength                       | 1.00  | Flooding                           | 0.60  | Flooding                           | 0.60  |
|                          |                 | Depth to saturated zone            | 0.78  | Cutbanks cave                      | 0.10  |                                    |       |
| Altavista                | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Forestdale               | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| GrB2:                    |                 |                                    |       |                                    |       |                                    |       |
| Grover                   | 85              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Appling                  | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Madison                  | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| GrC2:                    |                 |                                    |       |                                    |       |                                    |       |
| Grover                   | 85              | Somewhat limited                   |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Slope                              | 0.37  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Appling                  | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Ashlar                   | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| GvB3:                    |                 |                                    |       |                                    |       |                                    |       |
| Grover                   | 85              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets   |                      | Shallow Excavations  |                      | Lawns and Landscaping                                |              |
|--------------------------|-----------------|---|----------------------|--|----------------------|--|--------------|
|                          |                 | Rating Class and Limiting Features                                      | Value                | Rating Class and Limiting Features                                     | Value                | Rating Class and Limiting Features                   | Value        |
| <b>GvB3:</b>             |                 |   |                      |  |                      |  |              |
| Abell                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Appling                  | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Madison                  | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| <b>GvC3:</b>             |                 |   |                      |  |                      |  |              |
| Grover                   | 85              | Somewhat limited<br>Slope   | 0.37                 | Somewhat limited<br>Slope<br>Cutbanks cave                             | 0.37<br>0.10         | Somewhat limited<br>Slope                            | 0.37         |
| Ashlar                   | 8               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Madison                  | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| <b>IdB:</b>              |                 |   |                      |  |                      |  |              |
| Iredell                  | 85              | Very limited<br>Shrink-swell<br>Low strength<br>Depth to saturated zone | 1.00<br>1.00<br>0.90 | Very limited<br>Depth to saturated zone<br>Too clayey<br>Cutbanks cave | 1.00<br>0.50<br>0.10 | Somewhat limited<br>Depth to saturated zone          | 0.90         |
| Colfax                   | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Sekil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Worsham                  | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| <b>IdB2:</b>             |                 |   |                      |  |                      |  |              |
| Iredell                  | 85              | Very limited<br>Shrink-swell<br>Low strength<br>Depth to saturated zone | 1.00<br>1.00<br>0.90 | Very limited<br>Depth to saturated zone<br>Too clayey<br>Cutbanks cave | 1.00<br>0.50<br>0.10 | Somewhat limited<br>Depth to saturated zone          | 0.90         |
| Cecil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Cullen                   | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| Sekil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |
| <b>IdC2:</b>             |                 |   |                      |  |                      |  |              |
| Iredell                  | 85              | Very limited<br>Shrink-swell<br>Low strength<br>Depth to saturated zone | 1.00<br>1.00<br>0.90 | Very limited<br>Depth to saturated zone<br>Too clayey<br>Slope         | 1.00<br>0.50<br>0.37 | Somewhat limited<br>Depth to saturated zone<br>Slope | 0.90<br>0.37 |
| Cecil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated  |              |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>IdC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Cullen                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Sekil                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>IrA:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Iredell                  | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Shrink-swell                       | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.90  |
|                          |                 | Low strength                       | 1.00  |                                    |       |                                    |       |
|                          |                 | Depth to saturated zone            | 0.90  | Too clayey                         | 0.50  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Elbert                   | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Zion                     | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>IrB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Iredell                  | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Shrink-swell                       | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.90  |
|                          |                 | Low strength                       | 1.00  |                                    |       |                                    |       |
|                          |                 | Depth to saturated zone            | 0.90  | Too clayey                         | 0.50  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Poindexter               | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Zion                     | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>Iv:</b>               |                 |                                    |       |                                    |       |                                    |       |
| Iredell                  | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.90  |
|                          |                 | Shrink-swell                       | 1.00  |                                    |       |                                    |       |
|                          |                 | Depth to saturated zone            | 0.90  | Too clayey                         | 0.50  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Elbert                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Zion                     | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>LgB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Lignum                   | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.90  |
|                          |                 | Depth to saturated zone            | 0.90  | Too clayey                         | 0.13  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Cutbanks cave                      | 0.10  |                                    |       |
| Abell                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Worsham                  | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MaB2:</b>             |                 |                                    |       |                                    |       |                                    |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets  |               | Shallow Excavations   |                       | Lawns and Landscaping   |                      |
|--------------------------|-----------------|--|---------------|---|-----------------------|---|----------------------|
|                          |                 | Rating Class and Limiting Features                               | Value         | Rating Class and Limiting Features  | Value                 | Rating Class and Limiting Features                                      | Value                |
| <b>MaB2:</b>             |                 |  |               |   |                       |   |                      |
| Madison                  | 85              | Not limited  |               | Somewhat limited<br>Cutbanks cave   | 0.10                  | Not limited   |                      |
| Cecil                    | 7               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Grover                   | 7               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Rock outcrop             | 1               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| <b>MaC2:</b>             |                 |  |               |   |                       |   |                      |
| Madison                  | 85              | Somewhat limited<br>Slope  | 0.37          | Somewhat limited<br>Slope<br>Cutbanks cave  | 0.37<br>0.10          | Somewhat limited<br>Slope   | 0.37                 |
| Abell                    | 5               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Ashlar                   | 5               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Grover                   | 4               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Rock outcrop             | 1               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| <b>Md:</b>               |                 |  |               |   |                       |   |                      |
| Mine dump                | 100             | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| <b>MdB3:</b>             |                 |  |               |   |                       |   |                      |
| Madison                  | 95              | Not limited  |               | Somewhat limited<br>Cutbanks cave   | 0.10                  | Not limited   |                      |
| Grover                   | 5               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| <b>MdC3:</b>             |                 |  |               |   |                       |   |                      |
| Madison                  | 85              | Somewhat limited<br>Slope  | 0.37          | Somewhat limited<br>Slope<br>Cutbanks cave  | 0.37<br>0.10          | Somewhat limited<br>Slope   | 0.37                 |
| Ashlar                   | 7               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Grover                   | 7               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| Rock outcrop             | 1               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |
| <b>MnB:</b>              |                 |  |               |   |                       |   |                      |
| Manteo                   | 85              | Very limited<br>Depth to hard bedrock<br>Content of large stones | 1.00<br><0.01 | Very limited<br>Depth to hard bedrock<br>Cutbanks cave<br>Content of large stones | 1.00<br>0.10<br><0.01 | Very limited<br>Depth to bedrock<br>Droughty<br>Content of large stones | 1.00<br>1.00<br>0.92 |
| Abell                    | 8               | Not Rated  |               | Not Rated   |                       | Not Rated   |                      |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>MnB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MnC:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Manteo                   | 95              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Slope                              | 0.37  | Slope                              | 0.37  | Droughty                           | 1.00  |
|                          |                 | Content of large stones            | <0.01 | Cutbanks cave                      | 0.10  | Content of large stones            | 0.92  |
| Nason                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MnD:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Manteo                   | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Slope                              | 1.00  |
|                          |                 | Content of large stones            | <0.01 | Cutbanks cave                      | 0.10  | Droughty                           | 1.00  |
| Nason                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Tatum                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 1               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MnE:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Manteo                   | 95              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Slope                              | 1.00  |
|                          |                 | Content of large stones            | <0.01 | Cutbanks cave                      | 0.10  | Droughty                           | 1.00  |
| Rock outcrop             | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MoC:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Manteo                   | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Content of large stones            | 0.68  | Content of large stones            | 0.68  | Content of large stones            | 1.00  |
|                          |                 | Slope                              | 0.37  | Slope                              | 0.37  | Droughty                           | 1.00  |
| Abell                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Nason                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MoD:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Manteo                   | 90              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to hard bedrock              | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 1.00  |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Slope                              | 1.00  |
|                          |                 | Content of large stones            | 0.68  | Content of large stones            | 0.68  | Content of large stones            | 1.00  |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>MoD:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MsB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Masada                   | 85              | Very limited                       |       | Very limited                       |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 1.00  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.50  |                                    |       |
| Altavista                | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Turbeville               | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MsC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Masada                   | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 1.00  | Slope                              | 0.37  |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.50  |                                    |       |
|                          |                 | Slope                              | 0.37  | Slope                              | 0.37  |                                    |       |
| Appling                  | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Ashlar                   | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MuB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Mecklenburg              | 45              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.50  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Cutbanks cave                      | 0.10  |                                    |       |
| Enon                     | 40              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Cullen                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Iredell                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Zion                     | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MuC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Mecklenburg              | 40              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.50  | Slope                              | 0.37  |
|                          |                 | Shrink-swell                       | 0.50  | Slope                              | 0.37  |                                    |       |
|                          |                 | Slope                              | 0.37  | Cutbanks cave                      | 0.10  |                                    |       |
| Enon                     | 35              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Poindexter               | 9               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>MuC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Zion                     | 9               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>MvC3:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Mecklenburg              | 40              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.50  | Slope                              | 0.37  |
|                          |                 | Shrink-swell                       | 0.50  | Slope                              | 0.37  |                                    |       |
|                          |                 | Slope                              | 0.37  | Cutbanks cave                      | 0.10  |                                    |       |
| Enon                     | 35              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.13  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Poindexter               | 9               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Zion                     | 9               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>NaD2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Slope                              | 1.00  |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.03  |                                    |       |
| Abell                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Manteo                   | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 1               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>NoB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 85              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.03  |                                    |       |
| Abell                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Tatum                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>NoC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 85              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Shrink-swell                       | 0.50  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.03  |                                    |       |
| Manteo                   | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| NoC2:                    |                 |                                    |       |                                    |       |                                    |       |
| Tatum                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| NsB3:                    |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 95              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.03  |                                    |       |
| Tatum                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| NsC3:                    |                 |                                    |       |                                    |       |                                    |       |
| Nason                    | 95              | Very limited                       |       | Somewhat limited                   |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Shrink-swell                       | 0.50  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Slope                              | 0.37  | Too clayey                         | 0.03  |                                    |       |
| Manteo                   | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| OrB:                     |                 |                                    |       |                                    |       |                                    |       |
| Orange                   | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 1.00  | Depth to saturated zone            | 0.60  |
|                          |                 | Shrink-swell                       | 1.00  | Depth to saturated zone            | 1.00  |                                    |       |
|                          |                 | Depth to saturated zone            | 0.60  | Too clayey                         | 0.28  |                                    |       |
| Abell                    | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fluvanna                 | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Poindexter               | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| OxB:                     |                 |                                    |       |                                    |       |                                    |       |
| Orange                   | 55              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 1.00  | Depth to saturated zone            | 0.60  |
|                          |                 | Shrink-swell                       | 1.00  | Depth to saturated zone            | 1.00  |                                    |       |
|                          |                 | Depth to saturated zone            | 0.60  | Too clayey                         | 0.28  |                                    |       |
| Poindexter               | 35              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Elbert                   | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Abell                    | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fluvanna                 | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| PaB2:                    |                 |                                    |       |                                    |       |                                    |       |
| Pacolet                  | 45              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.50  |                                    |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets               |              | Shallow Excavations                                      |                      | Lawns and Landscaping              |       |
|--------------------------|-----------------|---------------------------------------|--------------|--|----------------------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features    | Value        | Rating Class and Limiting Features                       | Value                | Rating Class and Limiting Features | Value |
| <b>PaB2:</b>             |                 |                                       |              |  |                      |                                    |       |
| Cecil                    | 40              | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Cutbanks cave                        | 0.10                 | Not limited                        |       |
| Appling                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Iredell                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Wedowee                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PaC2:</b>             |                 |                                       |              |  |                      |                                    |       |
| Pacolet                  | 45              | Very limited<br>Low strength<br>Slope | 1.00<br>0.37 | Somewhat limited<br>Too clayey<br>Slope<br>Cutbanks cave | 0.50<br>0.37<br>0.10 | Somewhat limited<br>Slope          | 0.37  |
| Cecil                    | 35              | Very limited<br>Low strength<br>Slope | 1.00<br>0.37 | Somewhat limited<br>Slope<br>Cutbanks cave               | 0.37<br>0.10         | Somewhat limited<br>Slope          | 0.37  |
| Appling                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Ashlar                   | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Sekil                    | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Wedowee                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PaD2:</b>             |                 |                                       |              |  |                      |                                    |       |
| Pacolet                  | 45              | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Too clayey<br>Cutbanks cave     | 1.00<br>0.50<br>0.10 | Very limited<br>Slope              | 1.00  |
| Cecil                    | 30              | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Cutbanks cave                   | 1.00<br>0.10         | Very limited<br>Slope              | 1.00  |
| Appling                  | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Madison                  | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Sekil                    | 6               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PcD3:</b>             |                 |                                       |              |  |                      |                                    |       |
| Pacolet                  | 45              | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Too clayey<br>Cutbanks cave     | 1.00<br>0.50<br>0.10 | Very limited<br>Slope              | 1.00  |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets               |              | Shallow Excavations                                  |                      | Lawns and Landscaping              |       |
|--------------------------|-----------------|---------------------------------------|--------------|--|----------------------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features    | Value        | Rating Class and Limiting Features                   | Value                | Rating Class and Limiting Features | Value |
| <b>PcD3:</b>             |                 |                                       |              |  |                      |                                    |       |
| Cecil                    | 30              | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Too clayey<br>Cutbanks cave | 1.00<br>0.72<br>0.10 | Very limited<br>Slope              | 1.00  |
| Appling                  | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Ashlar                   | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Sekil                    | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Rock outcrop             | 1               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PxB:</b>              |                 |                                       |              |  |                      |                                    |       |
| Poindexter               | 85              | Not limited                           |              | Somewhat limited<br>Cutbanks cave                    | 0.10                 | Not limited                        |       |
| Iredell                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Orange                   | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Zion                     | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PxC:</b>              |                 |                                       |              |  |                      |                                    |       |
| Poindexter               | 85              | Somewhat limited<br>Slope             | 0.37         | Somewhat limited<br>Slope<br>Cutbanks cave           | 0.37<br>0.10         | Somewhat limited<br>Slope          | 0.37  |
| Mecklenburg              | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Zion                     | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PxC3:</b>             |                 |                                       |              |  |                      |                                    |       |
| Poindexter               | 85              | Somewhat limited<br>Slope             | 0.37         | Somewhat limited<br>Slope<br>Cutbanks cave           | 0.37<br>0.10         | Somewhat limited<br>Slope          | 0.37  |
| Cullen                   | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Mecklenburg              | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| Zion                     | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |
| <b>PxD:</b>              |                 |                                       |              |  |                      |                                    |       |
| Poindexter               | 85              | Very limited<br>Slope                 | 1.00         | Very limited<br>Slope<br>Cutbanks cave               | 1.00<br>0.10         | Very limited<br>Slope              | 1.00  |
| Cullen                   | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                          |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets                   |       | Shallow Excavations                     |       | Lawns and Landscaping                   |       |
|--------------------------|-----------------|---|-------|---|-------|---|-------|
|                          |                 | Rating Class and Limiting Features        | Value | Rating Class and Limiting Features      | Value | Rating Class and Limiting Features      | Value |
| <b>PxD:</b>              |                 |   |       |   |       |   |       |
| Sekil                    | 7               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Rock outcrop             | 1               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| <b>QU:</b>               |                 |   |       |   |       |   |       |
| Quarry                   | 100             | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| <b>RoB:</b>              |                 |   |       |   |       |   |       |
| Roanoke                  | 85              | Very limited<br>Depth to saturated zone   | 1.00  | Very limited<br>Depth to saturated zone | 1.00  | Very limited<br>Depth to saturated zone | 1.00  |
|                          |                 | Low strength                              | 1.00  | Cutbanks cave                           | 0.10  |   |       |
|                          |                 | Shrink-swell                              | 0.50  |   |       |   |       |
| Abell                    | 8               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Lignum                   | 7               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| <b>SeB:</b>              |                 |   |       |   |       |   |       |
| Sekil                    | 85              | Somewhat limited<br>Depth to hard bedrock | 0.46  | Very limited<br>Depth to hard bedrock   | 1.00  | Somewhat limited<br>Depth to bedrock    | 0.46  |
|                          |                 |   |       | Cutbanks cave                           | 1.00  | Droughty                                | 0.38  |
| Cullen                   | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Fluvanna                 | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Poindexter               | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| <b>SeC:</b>              |                 |   |       |   |       |   |       |
| Sekil                    | 95              | Somewhat limited<br>Depth to hard bedrock | 0.46  | Very limited<br>Depth to hard bedrock   | 1.00  | Somewhat limited<br>Depth to bedrock    | 0.46  |
|                          |                 | Slope                                     | 0.37  | Cutbanks cave                           | 1.00  | Droughty                                | 0.38  |
|                          |                 |   |       | Slope                                   | 0.37  | Slope                                   | 0.37  |
| Poindexter               | 4               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Rock outcrop             | 1               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| <b>SeC3:</b>             |                 |   |       |   |       |   |       |
| Sekil                    | 85              | Somewhat limited<br>Depth to hard bedrock | 0.46  | Very limited<br>Depth to hard bedrock   | 1.00  | Somewhat limited<br>Depth to bedrock    | 0.46  |
|                          |                 | Slope                                     | 0.37  | Cutbanks cave                           | 1.00  | Droughty                                | 0.38  |
|                          |                 |   |       | Slope                                   | 0.37  | Slope                                   | 0.37  |
| Cecil                    | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Cullen                   | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |
| Fluvanna                 | 5               | Not Rated                                 |       | Not Rated                               |       | Not Rated                               |       |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>SeD:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Sekil                    | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Depth to hard bedrock              | 1.00  | Slope                              | 1.00  |
|                          |                 | Depth to hard bedrock              | 0.46  | Slope                              | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 |                                    |       | Cutbanks cave                      | 1.00  | Droughty                           | 0.38  |
| Pacolet                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Wedowee                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Cullen                   | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Rock outcrop             | 1               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>SeE:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Sekil                    | 95              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Depth to hard bedrock              | 1.00  | Slope                              | 1.00  |
|                          |                 | Depth to hard bedrock              | 0.46  | Slope                              | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 |                                    |       | Cutbanks cave                      | 1.00  | Droughty                           | 0.38  |
| Rock outcrop             | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>SP:</b>               |                 |                                    |       |                                    |       |                                    |       |
| Sekil                    | 35              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Depth to hard bedrock              | 1.00  | Slope                              | 1.00  |
|                          |                 | Depth to hard bedrock              | 0.46  | Cutbanks cave                      | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 |                                    |       | Slope                              | 1.00  | Droughty                           | 0.38  |
| Poindexter               | 30              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Slope                              | 1.00  | Slope                              | 1.00  | Slope                              | 1.00  |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Rock outcrop             | 25              | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Appling                  | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Cecil                    | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Cullen                   | 2               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fluvanna                 | 2               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>TaB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Tatum                    | 85              | Very limited                       |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.72  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Cutbanks cave                      | 0.10  |                                    |       |
| Nason                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fluvanna                 | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |

TaC2:

## Table ENG-4. - Building Site Development - Continued

Louisa County, Virginia

| Map Symbol<br>and Soil Name | Pct<br>of<br>Map<br>Unit | Local Roads<br>and Streets            |       | Shallow<br>Excavations                |       | Lawns and<br>Landscaping              |       |
|-----------------------------|--------------------------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|
|                             |                          | Rating Class and<br>Limiting Features | Value | Rating Class and<br>Limiting Features | Value | Rating Class and<br>Limiting Features | Value |
| <b>TaC2:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Tatum                       | 85                       | Very limited                          |       | Somewhat limited                      |       | Somewhat limited                      |       |
|                             |                          | Low strength                          | 1.00  | Too clayey                            | 0.72  | Slope                                 | 0.37  |
|                             |                          | Shrink-swell                          | 0.50  | Slope                                 | 0.37  |                                       |       |
|                             |                          | Slope                                 | 0.37  | Cutbanks cave                         | 0.10  |                                       |       |
| Abell                       | 5                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Manteo                      | 5                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Nason                       | 5                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>TaD2:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Tatum                       | 85                       | Very limited                          |       | Very limited                          |       | Very limited                          |       |
|                             |                          | Slope                                 | 1.00  | Slope                                 | 1.00  | Slope                                 | 1.00  |
|                             |                          | Low strength                          | 1.00  | Too clayey                            | 0.72  |                                       |       |
|                             |                          | Shrink-swell                          | 0.50  | Cutbanks cave                         | 0.10  |                                       |       |
| Manteo                      | 8                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Nason                       | 7                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>TmB3:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Tatum                       | 85                       | Very limited                          |       | Somewhat limited                      |       | Not limited                           |       |
|                             |                          | Low strength                          | 1.00  | Too clayey                            | 0.72  |                                       |       |
|                             |                          | Shrink-swell                          | 0.50  | Cutbanks cave                         | 0.10  |                                       |       |
| Cullen                      | 8                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Nason                       | 7                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>TmC3:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Tatum                       | 85                       | Very limited                          |       | Somewhat limited                      |       | Somewhat limited                      |       |
|                             |                          | Low strength                          | 1.00  | Too clayey                            | 0.72  | Slope                                 | 0.37  |
|                             |                          | Shrink-swell                          | 0.50  | Slope                                 | 0.37  |                                       |       |
|                             |                          | Slope                                 | 0.37  | Cutbanks cave                         | 0.10  |                                       |       |
| Cullen                      | 8                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Nason                       | 7                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| <b>TmD3:</b>                |                          |                                       |       |                                       |       |                                       |       |
| Tatum                       | 90                       | Very limited                          |       | Very limited                          |       | Very limited                          |       |
|                             |                          | Slope                                 | 1.00  | Slope                                 | 1.00  | Slope                                 | 1.00  |
|                             |                          | Low strength                          | 1.00  | Too clayey                            | 0.72  |                                       |       |
|                             |                          | Shrink-swell                          | 0.50  | Cutbanks cave                         | 0.10  |                                       |       |
| Manteo                      | 8                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |
| Rock outcrop                | 2                        | Not Rated                             |       | Not Rated                             |       | Not Rated                             |       |

To:

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets               |              | Shallow Excavations  |                      | Lawns and Landscaping                    |              |
|--------------------------|-----------------|---------------------------------------|--------------|--|----------------------|--|--------------|
|                          |                 | Rating Class and Limiting Features    | Value        | Rating Class and Limiting Features                                       | Value                | Rating Class and Limiting Features       | Value        |
| To:                      |                 |                                       |              |  |                      |  |              |
| Toccoa                   | 85              | Very limited<br>Flooding              | 1.00         | Very limited<br>Cutbanks cave<br>Flooding<br>Depth to saturated zone     | 1.00<br>0.60<br>0.35 | Somewhat limited<br>Flooding<br>Droughty | 0.60<br>0.34 |
| Chewacla                 | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| Congaree                 | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| Ts:                      |                 |                                       |              |  |                      |  |              |
| Toccoa                   | 85              | Very limited<br>Flooding              | 1.00         | Somewhat limited<br>Flooding<br>Depth to saturated zone<br>Cutbanks cave | 0.60<br>0.35<br>0.10 | Somewhat limited<br>Flooding<br>Droughty | 0.60<br>0.34 |
| Chewacla                 | 8               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| Congaree                 | 7               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| TuB:                     |                 |                                       |              |  |                      |  |              |
| Turbeville               | 95              | Very limited<br>Low strength          | 1.00         | Very limited<br>Cutbanks cave<br>Too clayey                              | 1.00<br>0.13         | Not limited                              |              |
| Masada                   | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| W:                       |                 |                                       |              |  |                      |  |              |
| Water                    | 100             | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| WaB2:                    |                 |                                       |              |  |                      |  |              |
| Wedowee                  | 50              | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Cutbanks cave  | 0.10                 | Not limited                              |              |
| Appling                  | 40              | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Too clayey<br>Cutbanks cave                          | 0.13<br>0.10         | Not limited                              |              |
| Iredell                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| Pacolet                  | 5               | Not Rated                             |              | Not Rated  |                      | Not Rated                                |              |
| WaC2:                    |                 |                                       |              |  |                      |  |              |
| Wedowee                  | 45              | Very limited<br>Low strength<br>Slope | 1.00<br>0.37 | Somewhat limited<br>Slope<br>Cutbanks cave                               | 0.37<br>0.10         | Somewhat limited<br>Slope                | 0.37         |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets   |                      | Shallow Excavations  |                      | Lawns and Landscaping                               |              |
|--------------------------|-----------------|---|----------------------|--|----------------------|---|--------------|
|                          |                 | Rating Class and Limiting Features                                  | Value                | Rating Class and Limiting Features                                   | Value                | Rating Class and Limiting Features                  | Value        |
| <b>WaC2:</b>             |                 |   |                      |  |                      |   |              |
| Appling                  | 40              | Very limited<br>Low strength<br>Slope                               | 1.00<br>0.37         | Somewhat limited<br>Slope<br>Too clayey<br>Cutbanks cave             | 0.37<br>0.13<br>0.10 | Somewhat limited<br>Slope                           | 0.37         |
| Ashlar                   | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Pacolet                  | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Sekil                    | 5               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| <b>WaD2:</b>             |                 |   |                      |  |                      |   |              |
| Wedowee                  | 45              | Very limited<br>Slope<br>Low strength                               | 1.00<br>1.00         | Very limited<br>Slope<br>Cutbanks cave                               | 1.00<br>0.10         | Very limited<br>Slope                               | 1.00         |
| Appling                  | 35              | Very limited<br>Slope<br>Low strength                               | 1.00<br>1.00         | Very limited<br>Slope<br>Too clayey<br>Cutbanks cave                 | 1.00<br>0.13<br>0.10 | Very limited<br>Slope                               | 1.00         |
| Ashlar                   | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Poindexter               | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Sekil                    | 6               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| <b>WdD3:</b>             |                 |   |                      |  |                      |   |              |
| Wedowee                  | 45              | Very limited<br>Slope   | 1.00                 | Very limited<br>Slope<br>Cutbanks cave                               | 1.00<br>0.10         | Very limited<br>Slope                               | 1.00         |
| Appling                  | 35              | Very limited<br>Slope<br>Low strength                               | 1.00<br>1.00         | Very limited<br>Slope<br>Too clayey<br>Cutbanks cave                 | 1.00<br>0.13<br>0.10 | Very limited<br>Slope                               | 1.00         |
| Ashlar                   | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Poindexter               | 7               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| Sekil                    | 6               | Not Rated   |                      | Not Rated  |                      | Not Rated   |              |
| <b>We:</b>               |                 |   |                      |  |                      |   |              |
| Wehadkee                 | 85              | Very limited<br>Depth to saturated zone<br>Flooding<br>Low strength | 1.00<br>1.00<br>1.00 | Very limited<br>Depth to saturated zone<br>Flooding<br>Cutbanks cave | 1.00<br>0.80<br>0.10 | Very limited<br>Flooding<br>Depth to saturated zone | 1.00<br>1.00 |

**Table ENG-4. - Building Site Development - Continued**

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>We:</b>               |                 |                                    |       |                                    |       |                                    |       |
| Chewacla                 | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Forestdale               | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>WH:</b>               |                 |                                    |       |                                    |       |                                    |       |
| Wehadkee                 | 45              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 1.00  | Flooding                           | 1.00  |
|                          |                 | Flooding                           | 1.00  | Flooding                           | 0.80  | Depth to saturated zone            | 1.00  |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
| Chewacla                 | 35              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Flooding                           | 1.00  | Depth to saturated zone            | 1.00  | Flooding                           | 1.00  |
|                          |                 | Low strength                       | 1.00  | Flooding                           | 0.80  | Depth to saturated zone            | 0.78  |
|                          |                 | Depth to saturated zone            | 0.78  | Cutbanks cave                      | 0.10  |                                    |       |
| Congaree                 | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Forestdale               | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Fork                     | 6               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>WkB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Wickham                  | 95              | Not limited                        |       | Somewhat limited                   |       | Not limited                        |       |
|                          |                 |                                    |       | Cutbanks cave                      | 0.10  |                                    |       |
| Altavista                | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>WoB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Worsham                  | 85              | Very limited                       |       | Very limited                       |       | Very limited                       |       |
|                          |                 | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 1.00  |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 0.10  |                                    |       |
|                          |                 | Shrink-swell                       | 0.50  | Too clayey                         | 0.03  |                                    |       |
| Abell                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Colfax                   | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>YoB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| York                     | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Low strength                       | 1.00  | Cutbanks cave                      | 1.00  | Depth to cemented pan              | 0.79  |
|                          |                 | Depth to saturated zone            | 0.60  | Depth to saturated zone            | 1.00  | Depth to saturated zone            | 0.60  |
| Lignum                   | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Nason                    | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |

## Table ENG-4. - Building Site Development - Continued

Louisa County, Virginia

| Map Symbol and Soil Name | Pct of Map Unit | Local Roads and Streets            |       | Shallow Excavations                |       | Lawns and Landscaping              |       |
|--------------------------|-----------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
|                          |                 | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value | Rating Class and Limiting Features | Value |
| <b>ZoB:</b>              |                 |                                    |       |                                    |       |                                    |       |
| Zion                     | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Shrink-swell                       | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.28  |                                    |       |
|                          |                 | Depth to hard bedrock              | 0.46  | Cutbanks cave                      | 0.10  |                                    |       |
| Forestdale               | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Iredell                  | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Poindexter               | 5               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>ZoB2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Zion                     | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Shrink-swell                       | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 | Low strength                       | 1.00  | Too clayey                         | 0.28  |                                    |       |
|                          |                 | Depth to hard bedrock              | 0.46  | Cutbanks cave                      | 0.10  |                                    |       |
| Enon                     | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Mecklenburg              | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Poindexter               | 4               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Elbert                   | 3               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| <b>ZoC2:</b>             |                 |                                    |       |                                    |       |                                    |       |
| Zion                     | 85              | Very limited                       |       | Very limited                       |       | Somewhat limited                   |       |
|                          |                 | Shrink-swell                       | 1.00  | Depth to hard bedrock              | 1.00  | Depth to bedrock                   | 0.46  |
|                          |                 | Low strength                       | 1.00  | Slope                              | 0.37  | Slope                              | 0.37  |
|                          |                 | Depth to hard bedrock              | 0.46  | Too clayey                         | 0.28  |                                    |       |
| Sekil                    | 8               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |
| Poindexter               | 7               | Not Rated                          |       | Not Rated                          |       | Not Rated                          |       |