NOTE: MAX. SKEW ANGLE IS 30°.

- 25’ (7.5 m) MIN. FOR PRIVATE OR FIELD APP.
- 25.0’ (7.5 m) R TYP.
- 24’ (7.2 m) TYP.
- SEE PLANS FOR WIDTH

LANDING GRADE (-3% DESIRABLE,
+3% ALLOWABLE).

MANLINE DITCH GRADE

≥10:1 OR FLATTER

SEE PLANS FOR SURFACING

MANLINE DITCH GRADE

≥10:1 OR FLATTER

TYPICAL SECTION WITHIN CLEAR ZONE

USE A PIPE AS NECESSARY FOR DRAINAGE.
INSTALL CULVERTS OUTSIDE THE CLEAR ZONE OR PROVIDE END TREATMENT.

TYPICAL SECTION BEYOND CLEAR ZONE

BACK SLOPES **

<table>
<thead>
<tr>
<th>Grade</th>
<th>Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>0’ - 5’ (0.0 m - 1.5 m)</td>
<td>4:1</td>
</tr>
<tr>
<td>5’ - 10’ (1.5 m - 3.0 m)</td>
<td>2:1</td>
</tr>
<tr>
<td>OVER 10’ (3.0 m)</td>
<td>1:5:1</td>
</tr>
</tbody>
</table>

FILL SLOPES **

<table>
<thead>
<tr>
<th>Grade</th>
<th>Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>0’ - 10’ (0.0 m - 3.0 m)</td>
<td>4:1</td>
</tr>
<tr>
<td>10’ - 20’ (3.0 m - 6.0 m)</td>
<td>2:1</td>
</tr>
<tr>
<td>OVER 20’ (6.0 m)</td>
<td>1:5:1</td>
</tr>
</tbody>
</table>

NOTES:

1. APPROACH GRADE BEYOND LANDING IS NOT TO EXCEED 10% UNLESS TRAFFIC VOLUMES AND COST INDICATE SUCH TO BE JUSTIFIABLE.

2. CONSTRUCT APPROACHES TO FIT LOCAL CONDITIONS.

3. SECURE WRITTEN PERMISSION FROM LANDOWNER FOR WORK BEYOND THE RIGHT-OF-WAY.

** CRITERIA SHOWN ARE FOR PRIVATE AND FARMLAND APPROACHES. FOR COUNTY AND MAIN ROADS USE ESTABLISHED STANDARDS FOR APPLICABLE FUNCTIONAL CLASS.

UNITS SHOWN IN BRACKETS () ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING

REFERENCE

STANDARD SPEC.

SECTION

DWG. NO.

203-05

APPROACHES

EFFECTIVE: SEPTEMBER 2014

MTA MONTANA DEPARTMENT OF TRANSPORTATION
NOTES:

1. CONSTRUCT DITCH BLOCKS TO FIT LOCAL CONDITIONS. WHEN CONDITIONS DO NOT ALLOW 10:1 SLOPES, USE 6:1 SLOPES.

2. HEIGHTS SHOWN ARE MINIMUMS. SET HEIGHT OF DITCH BLOCKS BASED ON THE CULVERT DIAMETER OR ON THE ELEVATION SHOWN IN THE PLANS.

UNITS SHOWN IN BRACKETS ( ) ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.