|  |  |  |  |  |  |  |  |  |
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| **RIPRAP BASIN CHECKLIST** | | | | | | | | |
| Route       Project No.  Designer       Date  Reviewer       Date | | | | | | | | |
| DESIGN VALUES  (*IDM* Figure 203-2M) | TRIAL 1 | FINAL TRIAL |  | BASIN DIMENSIONS | | FEET | | |
| Equivalent Depth, *dE* |  |  |  | Pool length is the  larger of: | 10*hS* |  | |  |
| *D50*/*dE* |  |  |  | 3*Wo* |  | |
| *D50* |  |  |  | Basin length is the  larger of: | 15*hS* |  | |  |
| Froude No., *Fr* |  |  |  | 4*Wo* |  | |
| *hS*/*dE* |  |  |  | Approach Thickness | 3*D50* |  | | |
| *hS* |  |  |  | Basin Thickness | 2*D50* |  | | |
| *hS*/*D50* |  |  |  |  |  |  |  | |
| 2 < *hS*/*D50* < 4 |  |  |  |  |  |  |  | |

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| TAILWATER CHECK | |  | DOWNSTREAM RIPRAP (*IDM* Figure 203-2N) | | | | |
| Tailwater, *TW* |  |  | *L/DE* | *L* | *VL/Vo* | *VL* | *D50* |
| Equivalent depth, *dE* |  |  |  |  |  |  |  |
| *TW/dE* |  |  |  |  |  |  |  |
| IF *TW/dE* > 0.75, calculate riprap  downstream using *IDM* Figure 203-2N | |  |  |  |  |  |  |
|  |  |  |  |  |  |
| *DE* = (4*Ac*/π)0.5 |  |  |  |  |  |  |  |