

APPENDIX C
DESIGN TABLE FOR LATENT
STORAGE OPTION



Design Table for Latent Storage Option

Table C-1. Design Table for Latent Storage Option

| Description | | Calculations | Notes |
|--|-----|--------------|---|
| SRS Dimensions | | | |
| SRS Horizontal ID | d1 | | To Be Entered During Preliminary Design |
| SRS Horizontal OD | d2 | | To Be Entered During Preliminary Design |
| SRS Vertical ID | v1 | | To Be Entered During Preliminary Design |
| SRS Vertical OD | v2 | | To Be Entered During Preliminary Design |
| SRS Maximum Storage | | | To Be Entered During Preliminary Design |
| Invert Elevation at Diversion Weir | Inv | | To Be Entered During Preliminary Design |
| River Normal Summer Elevation | NWL | | To Be Entered During Preliminary Design |
| Gate Chamber Design Information | | | |
| Chamber Height | | | To Be Entered During Preliminary Design |
| Chamber Length | | | To Be Entered During Preliminary Design |
| Chamber Width | | | To Be Entered During Preliminary Design |
| Off-Take to Pump Well ID | | | To Be Entered During Preliminary Design |
| Gate Design Information | | | |
| Flap Gate Height | | | ACU-GATE available in 2 sizes: 41 cm high by 51 cm wide 41 cm high by 508 cm wide |
| Flap Gate Width | | | Calculated, usually matching chamber width. |
| Sluice Gate Height | | | Calculated |
| Sluice Gate Width | | | Calculated |
| Pump Design Information | | | |
| Dewatering Rate | | | From storm water modelling |
| Wet Well Depth | | | To Be Entered During Preliminary Design |
| ON Level | | | Calculated, based upon sump capacity and dimensions |
| OFF Level | | | Calculated, based upon sump capacity and dimensions |
| No. Pumps | | | Minimum design capacity with one pump out of service |
| Force Main Design Information | | | |
| Force Main ID | | | To Be Entered During Preliminary Design |
| Force Main Length | | | To Be Entered During Preliminary Design |

Notes:

ID = inside diameter

Inv = Invert

NWL = Normal Water Level

OD = outside diameter