

Storm North (SN)

| Link ID  | Length (m) | Slope (1:X) | Dia (mm) | Link Type | US CL (m) | US IL (m) | US Depth (m) | DS CL (m) | DS IL (m) | DS Depth (m) | US Node ID | Dia (mm) | Width (mm) | Node Type | MH Type   | DS Node ID | Dia (mm) | Width (mm) | Node Type | MH Type   |
|----------|------------|-------------|----------|-----------|-----------|-----------|--------------|-----------|-----------|--------------|------------|----------|------------|-----------|-----------|------------|----------|------------|-----------|-----------|
| PN1.000  | 9.694      | 161.6       | 225      | PH1       | 16.394    | 13.950    | 2.219        | 16.136    | 13.890    | 2.021        | 1          | 1200     |            | Manhole   | Adoptable | 2          | 1200     |            | Manhole   | Adoptable |
| PN1.001  | 16.762     | 166.0       | 225      | PH1       | 16.136    | 13.890    | 2.021        | 16.143    | 13.789    | 2.129        | 2          | 1200     |            | Manhole   | Adoptable | 4          | 1200     |            | Manhole   | Adoptable |
| PN2.000  | 7.036      | 4.1         | 150      | PH1       | 16.554    | 15.600    | 0.804        | 16.143    | 13.864    | 2.129        | 3          | 600      |            | Manhole   | Adoptable | 4          | 1200     |            | Manhole   | Adoptable |
| PN1.002  | 6.243      | 164.3       | 225      | PH1       | 16.143    | 13.789    | 2.129        | 16.154    | 13.751    | 2.178        | 4          | 1200     |            | Manhole   | Adoptable | 7          | 1200     |            | Manhole   | Adoptable |
| PN3.000  | 11.646     | 35.9        | 150      | PH1       | 16.106    | 14.150    | 1.806        | 16.154    | 13.826    | 2.178        | 5          | 600      |            | Manhole   | Adoptable | 7          | 1200     |            | Manhole   | Adoptable |
| PN4.000  | 11.303     | 166.2       | 225      | PH1       | 15.674    | 13.819    | 1.630        | 16.154    | 13.751    | 2.178        | 6          | 1200     |            | Manhole   | Adoptable | 7          | 1200     |            | Manhole   | Adoptable |
| PN1.003  | 8.453      | 234.8       | 300      | PH1       | 16.154    | 13.676    | 2.178        | 16.476    | 13.640    | 2.536        | 7          | 1200     |            | Manhole   | Adoptable | 9          | ??       |            | Junction  | Adoptable |
| PN5.000  | 5.802      | 4.3         | 150      | PH1       | 16.597    | 15.150    | 1.297        | 16.476    | 13.790    | 2.536        | 8          | 600      |            | Manhole   | Adoptable | 9          | ??       |            | Junction  | Adoptable |
| PN1.004  | 27.643     | 236.3       | 300      | PH1       | 16.476    | 13.640    | 2.536        | 17.371    | 13.523    | 3.448        | 9          | ??       |            | Junction  | Adoptable | 12         | 1200     |            | Manhole   | Adoptable |
| PN6.000  | 7.878      | 3.6         | 150      | PH1       | 17.463    | 15.850    | 1.463        | 17.271    | 13.673    | 3.448        | 10         | 600      |            | Manhole   | Adoptable | 12         | 1200     |            | Manhole   | Adoptable |
| PN7.000  | 5.277      | 2.8         | 150      | PH1       | 17.322    | 15.550    | 1.622        | 17.271    | 13.673    | 3.448        | 11         | 600      |            | Manhole   | Adoptable | 12         | 1200     |            | Manhole   | Adoptable |
| PN1.005  | 7.148      | 238.3       | 300      | PH1       | 17.271    | 13.523    | 3.448        | 17.439    | 13.493    | 3.646        | 12         | 1200     |            | Manhole   | Adoptable | 13         | 1200     |            | Manhole   | Adoptable |
| PN1.006  | 12.477     | 244.6       | 300      | PH1       | 17.439    | 13.523    | 3.616        | 17.716    | 13.472    | 3.944        | 13         | 1200     |            | Manhole   | Adoptable | 21         | 1200     |            | Manhole   | Adoptable |
| PN8.000  | 6.049      | 62.4        | 150      | PH1       | 18.778    | 17.200    | 1.428        | 18.706    | 17.303    | 1.453        | 14         | 600      |            | Manhole   | Adoptable | 15         | 1200     |            | Manhole   | Adoptable |
| PN8.001  | 30.594     | 25.8        | 225      | PH1       | 18.706    | 17.006    | 1.475        | 18.295    | 15.822    | 2.248        | 15         | 1200     |            | Manhole   | Adoptable | 17         | 1200     |            | Manhole   | Adoptable |
| PN9.000  | 8.744      | 17.0        | 150      | PH1       | 18.442    | 16.410    | 1.882        | 18.295    | 15.897    | 2.248        | 16         | 600      |            | Manhole   | Adoptable | 17         | 1200     |            | Manhole   | Adoptable |
| PN8.002  | 7.317      | 10.0        | 225      | PH1       | 18.295    | 15.822    | 2.248        | 18.138    | 15.090    | 2.823        | 17         | 1200     |            | Manhole   | Adoptable | 18         | 1200     |            | Manhole   | Adoptable |
| PN8.003  | 8.415      | 10.0        | 225      | PH1       | 18.138    | 15.090    | 2.823        | 17.926    | 14.249    | 3.452        | 18         | 1200     |            | Manhole   | Adoptable | 20         | 1200     |            | Manhole   | Adoptable |
| PN10.000 | 5.271      | 2.1         | 150      | PH1       | 18.152    | 16.850    | 1.152        | 17.926    | 14.334    | 3.452        | 19         | 600      |            | Manhole   | Adoptable | 20         | 1200     |            | Manhole   | Adoptable |
| PN8.004  | 7.317      | 10.0        | 225      | PH1       | 17.926    | 14.249    | 3.452        | 17.716    | 13.517    | 3.974        | 20         | 1200     |            | Manhole   | Adoptable | 21         | 1200     |            | Manhole   | Adoptable |
| PN1.007  | 10.283     | 244.8       | 300      | PH1       | 17.716    | 13.442    | 3.974        | 17.376    | 13.400    | 3.676        | 21         | 1200     |            | Manhole   | Adoptable | 24         | 1200     |            | Manhole   | Adoptable |
| PN11.000 | 5.800      | 2.9         | 150      | PH1       | 17.489    | 15.550    | 1.789        | 17.376    | 13.550    | 3.676        | 22         | 600      |            | Manhole   | Adoptable | 24         | 1200     |            | Manhole   | Adoptable |
| PN12.000 | 4.640      | 1.7         | 150      | PH1       | 17.540    | 16.250    | 1.140        | 17.376    | 13.550    | 3.676        | 23         | 600      |            | Manhole   | Adoptable | 24         | 1200     |            | Manhole   | Adoptable |
| PN1.008  | 24.854     | 241.3       | 300      | PH1       | 17.376    | 13.400    | 3.676        | 16.393    | 13.297    | 2.796        | 24         | 1200     |            | Manhole   | Adoptable | 36         | 1350     |            | Manhole   | Adoptable |
| PN13.000 | 4.333      | 13.9        | 150      | PH1       | 17.420    | 16.250    | 1.020        | 17.258    | 15.938    | 1.170        | 25         | 600      |            | Manhole   | Adoptable | 26         | 1200     |            | Manhole   | Adoptable |
| PN13.001 | 9.260      | 54.5        | 225      | PH1       | 17.258    | 15.863    | 1.170        | 17.085    | 15.693    | 1.167        | 26         | 1200     |            | Manhole   | Adoptable | 29         | 1200     |            | Manhole   | Adoptable |
| PN14.000 | 6.198      | 19.9        | 150      | PH1       | 17.242    | 16.080    | 1.012        | 17.085    | 15.768    | 1.167        | 27         | 600      |            | Manhole   | Adoptable | 29         | 1200     |            | Manhole   | Adoptable |
| PN15.000 | 5.948      | 7.1         | 150      | PH1       | 17.334    | 16.600    | 0.584        | 17.085    | 15.768    | 1.167        | 28         | 600      |            | Manhole   | Adoptable | 29         | 1200     |            | Manhole   | Adoptable |
| PN13.002 | 15.937     | 31.9        | 225      | PH1       | 17.085    | 15.693    | 1.167        | 16.765    | 15.194    | 1.346        | 29         | 1200     |            | Manhole   | Adoptable | 32         | 1200     |            | Manhole   | Adoptable |
| PN16.000 | 11.090     | 19.1        | 150      | PH1       | 17.120    | 15.850    | 1.120        | 16.765    | 15.269    | 1.346        | 30         | 600      |            | Manhole   | Adoptable | 32         | 1200     |            | Manhole   | Adoptable |
| PN17.000 | 5.449      | 7.5         | 150      | PH1       | 17.018    | 16.000    | 0.868        | 16.765    | 15.269    | 1.346        | 31         | 600      |            | Manhole   | Adoptable | 32         | 1200     |            | Manhole   | Adoptable |
| PN13.003 | 21.388     | 18.1        | 225      | PH1       | 16.765    | 15.194    | 1.346        | 16.359    | 14.030    | 2.124        | 32         | 1200     |            | Manhole   | Adoptable | 35         | 1200     |            | Manhole   | Adoptable |
| PN18.000 | 6.889      | 5.9         | 150      | PH1       | 16.443    | 15.250    | 1.043        | 16.359    | 14.085    | 2.124        | 33         | 600      |            | Manhole   | Adoptable | 35         | 1200     |            | Manhole   | Adoptable |
| PN19.000 | 4.680      | 2.7         | 150      | PH1       | 16.582    | 15.850    | 0.582        | 16.359    | 14.085    | 2.124        | 34         | 600      |            | Manhole   | Adoptable | 35         | 1200     |            | Manhole   | Adoptable |
| PN13.004 | 6.374      | 10.0        | 225      | PH1       | 16.359    | 14.030    | 2.124        | 16.393    | 13.373    | 2.795        | 35         | 1200     |            | Manhole   | Adoptable | 36         | 1350     |            | Manhole   | Adoptable |
| PN1.009  | 14.355     | 319.0       | 375      | PH1       | 16.393    | 13.223    | 2.795        | 15.824    | 13.178    | 2.271        | 36         | 1350     |            | Manhole   | Adoptable | 38         | 1350     |            | Manhole   | Adoptable |
| PN20.000 | 4.944      | 3.4         | 150      | PH1       | 15.943    | 14.850    | 0.943        | 15.824    | 13.493    | 2.271        | 37         | 600      |            | Manhole   | Adoptable | 38         | 1350     |            | Manhole   | Adoptable |
| PN1.010  | 13.102     | 319.6       | 375      | PH1       | 15.824    | 13.178    | 2.271        | 15.399    | 13.137    | 1.787        | 38         | 1350     |            | Manhole   | Adoptable | 39         | 1350     |            | Manhole   | Adoptable |
| PN1.011  | 14.885     | 323.6       | 375      | PH1       | 15.399    | 13.137    | 1.787        | 14.698    | 13.091    | 1.232        | 39         | 1350     |            | Manhole   | Adoptable | 41         | 1350     |            | Manhole   | Adoptable |
| PN21.000 | 6.316      | 14.6        | 150      | PH1       | 14.877    | 13.750    | 0.977        | 14.698    | 13.316    | 1.232        | 40         | 600      |            | Manhole   | Adoptable | 41         | 1350     |            | Manhole   | Adoptable |
| PN1.012  | 11.007     | 29.8        | 375      | PH1       | 14.698    | 13.091    | 1.232        | 14.296    | 12.722    | 1.199        | 41         | 1350     |            | Manhole   | Adoptable | 43         | 1350     |            | Manhole   | Adoptable |
| PN22.000 | 6.515      | 12.9        | 150      | PH1       | 14.512    | 13.450    | 0.912        | 14.296    | 12.946    | 1.200        | 42         | 600      |            | Manhole   | Adoptable | 43         | 1350     |            | Manhole   | Adoptable |
| PN116    | 20.135     | 33.3        | 375      | PH1       | 14.296    | 12.721    | 1.200        | 13.500    | 12.116    | 1.009        | 43         | 1350     |            | Manhole   | Adoptable | 44         | 1350     |            | Manhole   | Adoptable |
| PN23.000 | 14.590     | 20.3        | 150      | PH1       | 18.463    | 17.400    | 0.913        | 18.032    | 16.682    | 1.200        | 47A        | 600      |            | Manhole   | Adoptable | 47         | 1200     |            | Manhole   | Adoptable |
| PN24.000 | 6.979      | 14.9        | 150      | PH1       | 18.261    | 17.150    | 0.961        | 18.032    | 16.682    | 1.200        | 45         | 600      |            | Manhole   | Adoptable | 47         | 1200     |            | Manhole   | Adoptable |
| PN25.000 | 4.731      | 169.0       | 150      | PH1       | 18.172    | 16.710    | 1.312        | 18.032    | 16.682    | 1.200        | 46         | 600      |            | Manhole   | Adoptable | 47         | 1200     |            | Manhole   | Adoptable |
| PN23.001 | 30.444     | 63.6        | 225      | PH1       | 18.032    | 16.682    | 1.200        | 17.521    | 16.128    | 1.168        | 47         | 1200     |            | Manhole   | Adoptable | 51         | 1200     |            | Manhole   | Adoptable |
| PN26.000 | 14.369     | 28.9        | 150      | PH1       | 17.917    | 16.700    | 1.067        | 17.521    | 16.203    | 1.168        | 48         | 600      |            | Manhole   | Adoptable | 51         | 1200     |            | Manhole   | Adoptable |
| PN27.000 | 5.907      | 30.0        | 150      | PH1       | 17.630    | 16.400    | 1.080        | 17.521    | 16.203    | 1.168        | 49         | 600      |            | Manhole   | Adoptable | 51         | 1200     |            | Manhole   | Adoptable |
| PN28.000 | 4.684      | 15.8        | 150      | PH1       | 17.718    | 16.500    | 1.068        | 17.521    | 16.203    | 1.168        | 50         | 600      |            | Manhole   | Adoptable | 51         | 1200     |            | Manhole   | Adoptable |
| PN23.002 | 14.687     | 52.3        | 225      | PH1       | 17.521    | 16.128    | 1.168        | 17.272    | 15.847    | 1.200        | 51         | 1200     |            | Manhole   | Adoptable | 54         | 1200     |            | Manhole   | Adoptable |
| PN29.000 | 6.264      | 27.5        | 150      | PH1       | 17.418    | 16.150    | 1.118        | 17.272    | 15.922    | 1.200        | 52         | 600      |            | Manhole   | Adoptable | 54         | 1200     |            | Manhole   | Adoptable |
| PN30.000 | 4.100      | 10.8        | 150      | PH1       | 17.449    | 16.300    | 0.999        | 17.272    | 15.922    | 1.200        | 53         | 600      |            | Manhole   | Adoptable | 54         | 1200     |            | Manhole   | Adoptable |
| PN23.003 | 26.134     | 99.4        | 300      | PH1       | 17.272    | 15.772    | 1.200        | 16.839    | 15.332    | 1.207        | 54         | 1200     |            | Manhole   | Adoptable | 56         | 1200     |            | Manhole   | Adoptable |
| PN31.000 | 5.583      | 7.8         | 150      | PH1       | 17.244    | 16.200    | 0.894        | 16.839    | 15.482    | 1.207        | 55         | 600      |            | Manhole   | Adoptable | 56         | 1200     |            | Manhole   | Adoptable |
| PN23.004 | 9.925      | 109.1       | 300      | PH1       | 16.839    | 15.332    | 1.207        | 16.868    | 15.241    | 1.327        | 56         | 1200     |            | Manhole   | Adoptable | 61         | 1200     |            | Manhole   | Adoptable |
| PN32.000 | 10.027     | 18.2        | 150      | PH1       | 17.643    | 16.500    | 0.993        | 17.432    | 15.950    | 1.332        | 57         | 600      |            | Manhole   | Adoptable | 59         | 1200     |            | Manhole   | Adoptable |
| PN33.000 | 4.420      | 17.7        | 150      | PH1       | 17.536    | 16.200    | 1.186        | 17.432    | 15.950    | 1.332        | 58         | 600      |            | Manhole   | Adoptable | 59         | 1200     |            | Manhole   | Adoptable |
| PN32.001 | 27.487     | 49.2        | 225      | PH1       | 17.432    | 15.875    | 1.332        | 16.868    | 15.316    | 1.327        | 59         | 1200     |            | Manhole   | Adoptable | 61         | 1200     |            | Manhole   | Adoptable |
| PN34.000 | 10.000     | 14.1        | 150      | PH1       | 17.251    | 16.100    | 1.001        | 16.868    | 15.391    | 1.327        | 60         | 600      |            | Manhole   | Adoptable | 61         | 1200     |            | Manhole   | Adoptable |
| PN23.005 | 9.348      | 24.5        | 300      | PH1       | 16.868    | 15.241    | 1.327        | 16.498    | 14.860    | 1.338        | 61         | 1200     |            | Manhole   | Adoptable | 64         | 1200     |            | Manhole   | Adoptable |
| PN35.000 | 10.109     | 84.2        | 150      | PH1       | 16.867    | 15.130    | 1.587        | 16.498    | 15.030    | 1.338        | 62         | 600      |            | Manhole   | Adoptable | 64         | 1200     |            | Manhole   | Adoptable |
| PN36.000 | 4.402      | 13.1        | 150      | PH1       | 16.701    | 15.350    | 1.201        | 16.498    | 15.030    | 1.338        | 63         | 600      |            | Manhole   | Adoptable | 64         | 1200     |            | Manhole   | Adoptable |
| PN23.006 | 24.863     | 29.5        | 300      | PH1       | 16.498    | 14.860    | 1.338        | 15.518    | 14.018    | 1.200        | 64         | 1200     |            | Manhole   | Adoptable | 67         | 1350     |            | Manhole   | Adoptable |
| PN37.000 | 10.787     | 25.0        | 150      | PH1       | 15.762    | 14.600    | 1.012        | 15.518    | 14.168    | 1.200        | 65         | 600      |            | Manhole   | Adoptable | 67         | 1350     |            | Manhole   | Adoptable |
| PN38.000 | 5.300      | 9.4         | 150      | PH1       | 15.647    | 14.730    | 0.767        | 15.518    | 14.168    | 1.200        | 66         | 600      |            | Manhole   | Adoptable | 67         | 1350     |            | Manhole   | Adoptable |
| PN23.007 | 17.561     | 24.5        | 375      | PH1       | 15.518    | 13.943</  |              |           |           |              |            |          |            |           |           |            |          |            |           |           |