STATE OF VERMONT
AGENCY OF TRANSPORTATION

# DRAINAGE DETAIL SHEET

| STATION | STATION | POS. | PIPE # | INLET/OUTLET TYPE | | DITCH | | PIPE ARCH | | | PIPE | | ALLOWABLE OPTIONS | | | | | | PIPE ELBOW | ES | CB | DEPTH DI | CONC CLASS B | REINF STEEL | DI GRATE | CHAN ELEV | CRM | TRENCH EXCAVATION | | COMM EXC | UNC CHAN EXC | STRUCT EXCAV | GRAN BKFILL STRUCT | GRAN BORR | EROS MATT | STONE FILL | | MARKER POSTS | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| km + m | km + m | | | INLET | OUTLET | IN | OUT | SPAN mm | RISE mm | L m | D mm | L m | PCCSP mm | CAAP mm | RCP CL | CSP mm | CPEP SL mm | PCCSP PI mm | no. deg. | ea | ea | mm | $m^3$ | kg | type | ea | $m^3$ | EARTH $m^3$ | ROCK $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^3$ | $m^2$ | $m^3$ | type | LT ea | RT ea | | | |
| 20+091.689 | 10+018.140 | LT-RT | 1 | CB-1 | CB-13 | | | | | | 450 | 21.5 | | | | | X | | | 1 | | | | D | | | 31.9 | | | | | 32.56 | | | | | | | | |
| 20+091.309 | 20+112.400 | RT | 2 | CB-2 | CB-3 | | | | | | 450 | 20.4 | | | | | X | | | 1 | | | | D | | | 29.1 | | | | | 30.55 | | | | | | | | |
| 20+112.400 | 9+984.526 | RT-LT | 3 | CB-3 | CB-4 | | | | | | 450 | 15.8 | | | | | X | | | 1 | | | | D | | | 29.5 | | | | | 25.28 | | | | | | | | |
| 9+984.526 | 9+981.999 | LT-RT | 4 | CB-4 | CB-5 | | | | | | 450 | 16.7 | | | | | X | | | 1 | | | | D | | | 33.6 | | | | | 28.12 | | | | | | | | |
| 9+981.999 | 20+147.920 | RT | 5 | CB-5 | CB-6 | | | | | | 450 | 5.4 | | | | | X | | | 1 | | | | D | | | 20.2 | | | | | 12.44 | | | | | | | | |
| 20+147.920 | 20+147.380 | RT-LT | 6 | CB-6 | CB-7 | | | | | | 600 | 18.9 | | | | | X | | | 1 | | | | D | | | 45.3 | | | | | 33.42 | | | | | | | | |
| 20+147.380 | 20+143.193 | LT | 7 | CB-7 | DITCH | | | | | | 600 | 10.8 | | | | | X | | 1 | 1 | | | | D | | | 16.8 | | | | | 22.66 | | | | | 1 | | | |
| 9+971.689 | 9+984.526 | LT | 8 | CB-8 | CB-4 | | | | | | 450 | 12.3 | | | | | X | | | 1 | | | | D | | | 22.1 | | | | | 20.43 | | | | | | | | |
| 9+957.241 | 9+971.689 | LT | 9 | CB-9 | CB-8 | | | | | | 450 | 13.4 | | | | | X | | | 1 | | | | D | | | 16.9 | | | | | 21.42 | | | | | | | | |
| 10+034.955 | 10+018.140 | LT | 11 | CB-11 | CB-13 | | | | | | 450 | 17.0 | | | | | X | | | 1 | | | | D | | | 26.3 | | | | | 26.09 | | | | | | | | |
| 10+020.496 | 10+018.140 | LT | 12 | CB-12 | CB-13 | | | | | | 450 | 1.6 | | | | | X | | | 1 | | | | D | | | 11.9 | | | | | 6.87 | | | | | | | | |
| 10+018.140 | 10+019.795 | LT-RT | 13 | CB-13 | CB-16 | | | | | | 450 | 20.2 | | | | | X | | | 1 | | | | D | | | 44.4 | | | | | 32.84 | | | | | | | | |
| 10+054.393 | 10+034.398 | RT | 14 | CB-14 | CB-15 | | | | | | 450 | 18.7 | | | | | X | | | 1 | | | | D | | | 18.8 | | | | | 27.49 | | | | | | | | |
| 10+034.398 | 10+019.795 | RT | 15 | CB15 | CB-16 | | | | | | 450 | 14.2 | | | | | X | | | 1 | | | | D | | | 26.7 | | | | | 22.64 | | | | | | | | |
| 10+019.795 | 10+017.606 | RT | 16 | CB-16 | DITCH | | | | | | 600 | 9.1 | | | | | X | | 1 | 1 | | | | D | | | 12.9 | | | | | 20.25 | | | | | 1 | | | |
| 20+155.000 | 20+147.920 | RT | 17 | DITCH | CB-6 | | | | | | 450 | 7.3 | | | | | X | | | 1 | | | | | | | 15.2 | | | | | 8.3 | | | | | 1 | | | |
| 20+196.650 | 20+160.161 | LT | 18 | CB-18 | DITCH | | | | | | 375 | 36.3 | | | | | X | | 1 | 1 | | | | A | | | 56.5 | | | | | 45.91 | | | | | 1 | | | |
| 9+957.101 | 9+957.241 | LT | 19 | DITCH | CB-9 | | | | | | 450 | 3.3 | | | | | X | | | 1 | | | | | | | 4.1 | | | | | 3.2 | | | | | 1 | | | |
| 9+957.795 | 9+958.165 | LT-RT | EX 1 | | | | | | | | 380 | 10.6 | | | | | | | | | | | | | | | 43.3 | | | | | | | | | | | | | REMOVE EXISTING CULVERT |
| 9+958.031 | 9+978.201 | RT | EX 2 | | | | | | | | 460 | 20.2 | | | X | | | | | | | | | | | | 121.0 | | | | | | | | | | | | | REMOVE EXISTING CULVERT |
| 9+979.540 | 20+151.897 | RT-LT | EX 3 | | | | | | | | 460 | 26.1 | | | X | | | | | | | | | | | | 117.7 | | | | | | | | | | | | | REMOVE EXISTING CULVERT |
| 9+926.160 | 9+944.514 | LT-RT | EX 4 | | | | | | | | 460 | 29.9 | | | X | | | | | | | | | | | | 134.8 | | | | | | | | | | | | | REMOVE EXISTING CULVERT |
| TOTALS | | | | | | | | | | | | | | | 3 | | 18 | | 5 | 16 | | | | | | | 879 | | | | | 420.81 | | | | | 5 | | | |

PROJECT NAME: CAMBRIDGE
PROJECT NUMBER: STP 030-2(27)

FILE NAME: t78f163frm.dgn
PROJECT LEADER: JLS
DESIGNED BY: MBL
DRAINAGE DETAIL SHEET

PLOT DATE: 05-JUN-2012
DRAWN BY: MBL
CHECKED BY: JAD
SHEET 41 OF 214

SEE REVISION SHEET