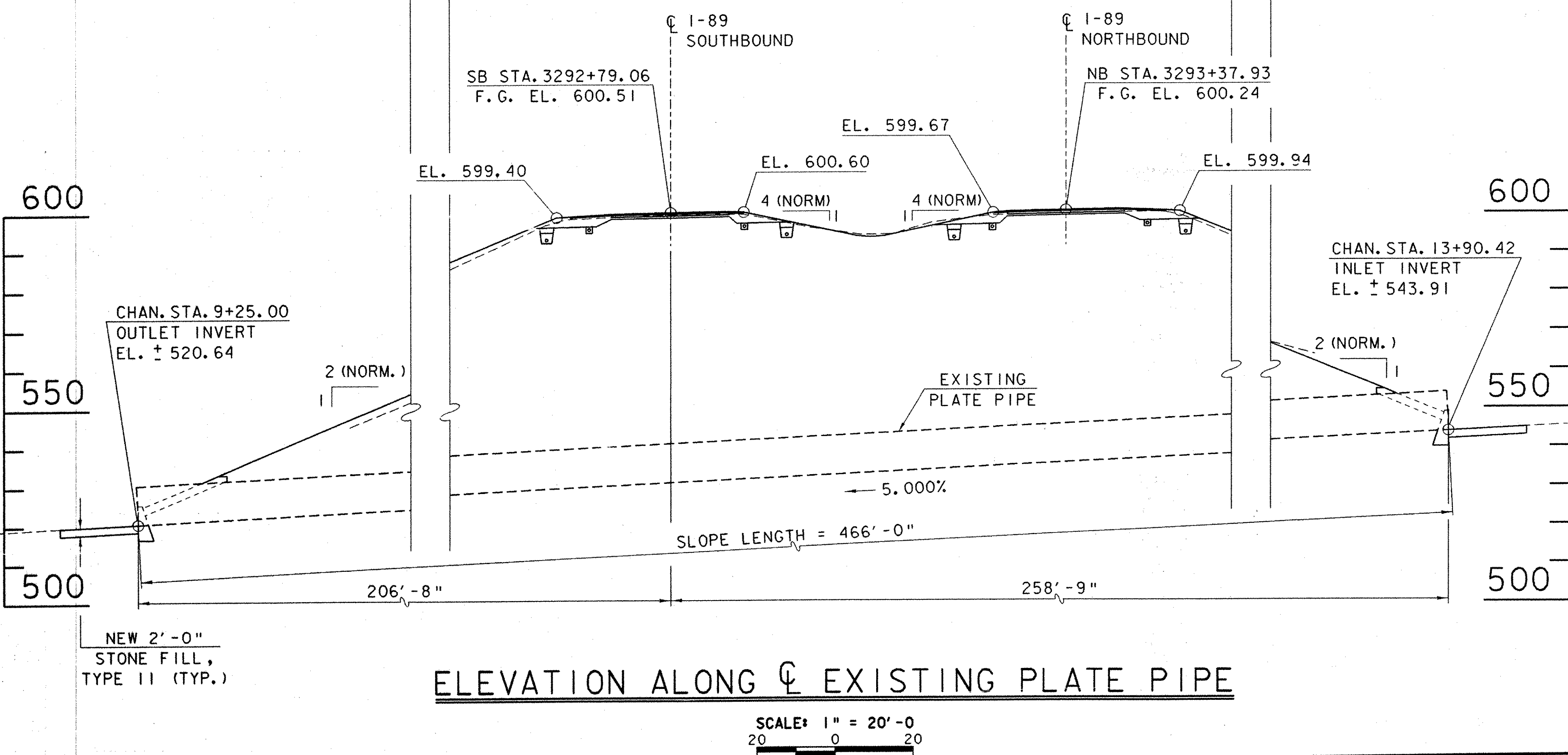
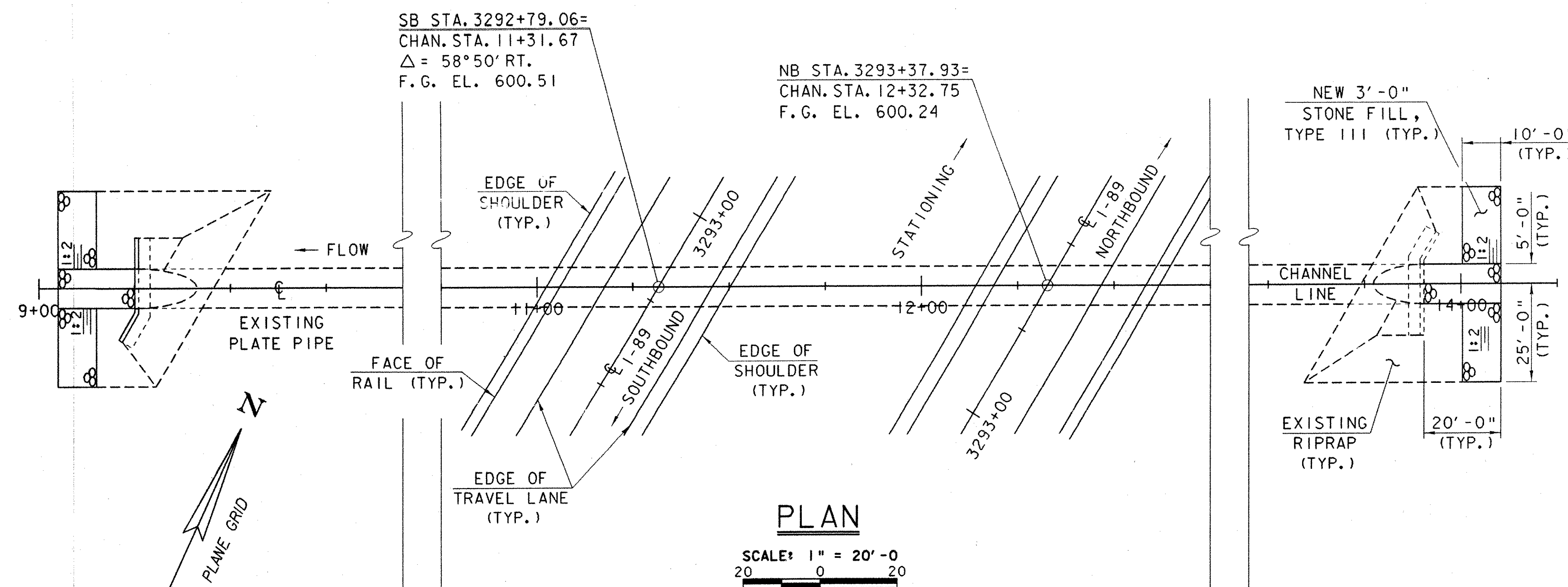
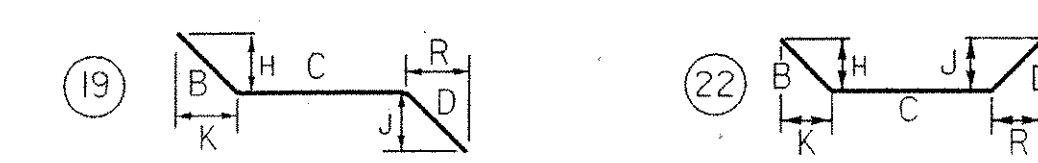




IMPORTANT NOTE: BRIDGE FINISHED GRADES ARE CENTERLINE GRADES.

## NOTES

1. **SCOPE OF WORK:** REPAIR INLET AND OUTLET OF EXISTING PIPE CULVERT AND PROVIDE ADDITIONAL STONE FILL AT BOTH INLET AND OUTLET ENDS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER.
2. AT INLET END, RE-ANCHOR PIPE TO HEADWALL AND GROUT VOID BETWEEN PIPE AND WALL. SEE SHEET BR101 FOR ADDITIONAL DETAILS.
3. AT OUTLET END, REMOVE HEADWALL TO 1'-0" BELOW FLOW LINE. DRILL AND GROUT VERTICAL REINFORCING STEEL INTO REMAINING CONCRETE. REPAIR HEADWALL WITH ANCHORS INTO EXISTING PIPE AT EXISTING HOLE LOCATIONS. SEE SHEET BR101 FOR ADDITIONAL DETAILS.
4. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1996, AND ITS LATEST REVISIONS.

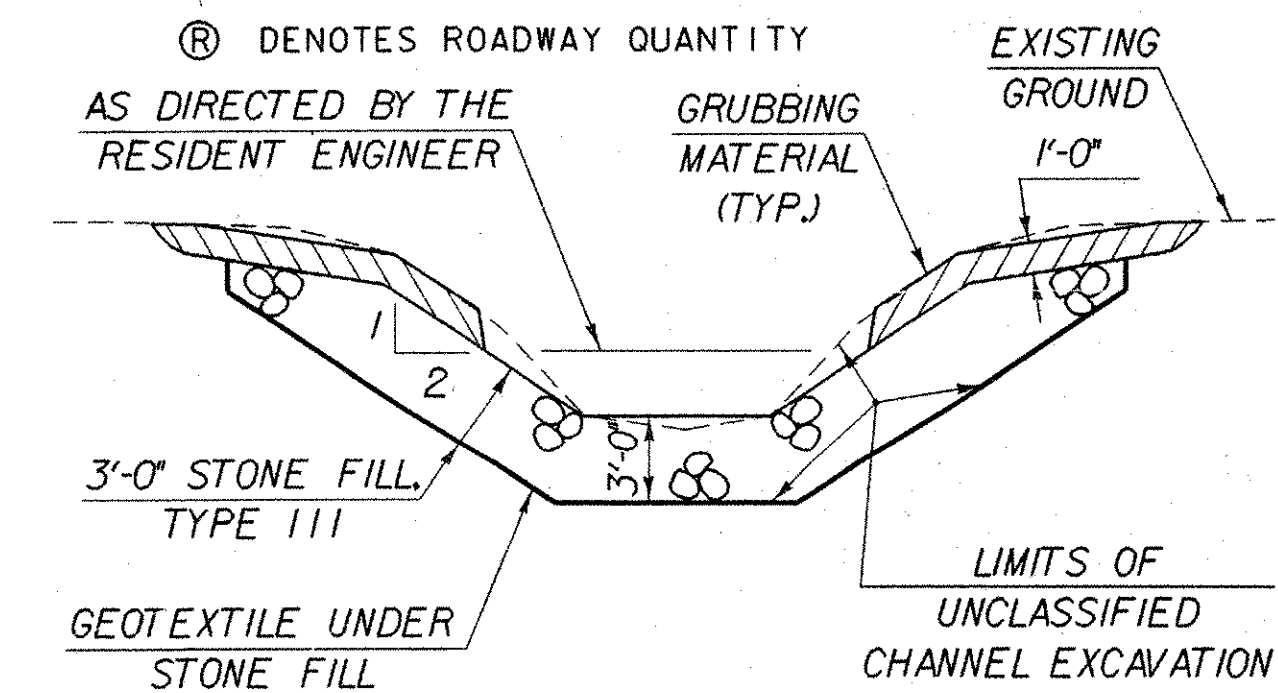


## REINFORCING STEEL SCHEDULE

| NO. PIECES      | SIZE | LENGTH | MARK | TYPE | B   | C    | D   | H   | J   | K    | R   |
|-----------------|------|--------|------|------|-----|------|-----|-----|-----|------|-----|
| OUTLET HEADWALL |      |        |      |      |     |      |     |     |     |      |     |
| * 29            | 5    | 7-6    | H501 | STR  | ▲   |      |     |     |     |      |     |
| * 9             | 5    | 5-4    | H503 | STR  |     |      |     |     |     |      |     |
| 8               | 5    | 5-11   | H502 | 19   | 3-6 | 0-5  | 2-0 | 2-6 | 1-5 | 2-6  | 1-5 |
| 2               | 5    | 15-6   | H504 | 19   | 2-0 | 13-6 | /   | 1-0 |     | 1-9  |     |
| 4               | 5    | 7-11   | H505 | 22   | 2-0 | 3-11 | 2-0 | 1-5 | 1-5 | 1-5  | 1-5 |
| 8               | 8    | 4-0    | H801 | STR  |     |      |     |     |     |      |     |
| 8               | 8    | 4-9    | H802 | 19   | 2-0 | 2-9  | /   | 0-8 |     | 1-11 |     |

## BRIDGE 86-5 PIPE QUANTITIES

| ITEM NO. | ITEM                                                  | UNIT | INLET HEADWALL | OUTLET HEADWALL | TOTAL | FINAL |
|----------|-------------------------------------------------------|------|----------------|-----------------|-------|-------|
| 203.27   | UNCLASSIFIED CHANNEL EXCAVATION                       | CY   | 75             | 75              | 150   |       |
| 204.25   | STRUCTURE EXCAVATION                                  | CY   |                | 20              | 20    |       |
| 204.30   | GRANULAR BACKFILL FOR STRUCTURES                      | CY   |                | 10              | 10    |       |
| 501.25   | CONCRETE, CLASS B                                     | CY   |                | 10              | 10    |       |
| 501.58   | MORTAR, TYPE IV (MOD.)                                | LS   |                | 1               | 1     |       |
| 507.16   | DRILLING AND GROUTING DOWELS                          | LF   |                | 32              | 32    |       |
| 507.17   | EPOXY COATED REINFORCING STEEL                        | LB   |                | 580             | 580   |       |
| 514.10   | WATER REPELLENT                                       | GAL  | 1              | 1               | 2     |       |
| 529.25   | REMOVAL OF CONCRETE OR MASONRY                        | CY   |                | 10              | 10    |       |
| 613.12   | STONE FILL, TYPE III                                  | CY   | 75             | 85              | 160   |       |
| 614.10   | TEMPORARY RELOCATION OF STREAM (CHANNEL STA. 13+90.5) | LS   | 1              |                 | 1     |       |
| 649.31   | GEOTEXTILE UNDER STONE FILL                           | SY   | 70             | 70              | 140   |       |
| 651.40   | GRUBBING MATERIAL                                     | SY   | 45             | 45              | 90    |       |



## TYPICAL CHANNEL SECTION AT HEADWALLS

|                                                      |                                        |
|------------------------------------------------------|----------------------------------------|
| <b>STATE OF VERMONT<br/>AGENCY OF TRANSPORTATION</b> |                                        |
| Town of<br><b>FAIRFAX-FAIRFIELD-ST. ALBANS</b>       | Bridge No. 86-5                        |
| Highway No. 1-89                                     | Log Sta. MM 111.28                     |
| Surv. Sta.                                           |                                        |
| 1-89 OVER THE MILL RIVER                             |                                        |
| 86-5 PRELIMINARY INFORMATION SHEET                   |                                        |
| Designed By M. LOZIER                                | Drawn By G. ROY                        |
| Checked By M. LOZIER                                 | Bridge Design Supervisor R.R. WHITCOMB |
| Date 10/99                                           | Date 10/99                             |
| PROJECT<br>FAIRFAX-FAIRFIELD-ST. ALBANS              | PROJECT NO.<br>1 M 089 - 3 (27)        |
| I.G.C. Info. 96a056Structures\sa056p11.dgn           | sa056p11                               |
| Bridge Sheet No. BR100                               | Sheet 74 of 370                        |