



Headwater = 2.70 Ft.  
Outlet Velocity = 7.4 FPS.

Area = 7 Acres  
 $Q_{50} = 23$  C.F.S.

Area = 15 Acres  
 $Q_{50} = 40$  C.F.S.

Headwater = 3.75 Ft.  
Outlet Velocity = 9.5 FPS.

**CULVERT DATA**  
Type S-27 Sec. M-6.6(b) or Sec. M-6.8(b)  
with Std. Type "A" Headwalls  
Size: 27" x 138'  
30" x 154'

Work Required: Build two pipe culverts with Std. Type "A" Headwalls. Place sodding and excavate channels as shown.

**ESTIMATED QUANTITIES**

- \* E-2 Excavation for structures 180 C.Y.
- E-3 Channel Excavation 23 C.Y.
- L-10 Sodding 14 S.Y.
- S-1 Concrete for Structures, Class "C" 29.1 C.Y.
- S-4 Reinforcing Steel 1144 LBS.
- S-27 27" Pipe for Roadway Culverts 138 L.F.
- S-27 30" Pipe for Roadway Culverts 154 L.F.
- Sec. M-6.6(b) or Sec. M-6.8(b)
- Sec. M-6.6(b) or Sec. M-6.8(b)
- \* Includes excavation for headwalls.

Sta.	Area	Vol.
104+50	64	3038
104+50	66	2828
104+50	74	2310
104+50	259	9515