

Cross Section for Section A - 100 yr - Michelli Crest (Developed)

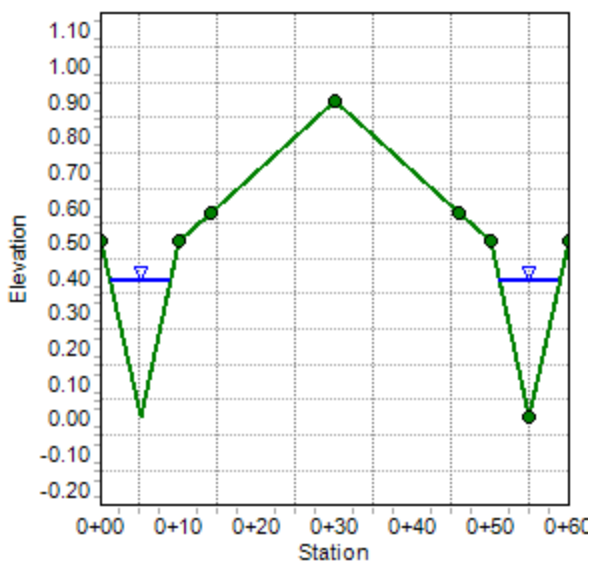
Project Description

| | |
|-----------------|-----------------|
| Friction Method | Manning Formula |
| Solve For | Normal Depth |

Input Data

| | | |
|---------------|------|--------------------|
| Channel Slope | 1.40 | % |
| Normal Depth | 0.39 | ft |
| Discharge | 6.00 | ft ³ /s |

Cross Section Image



Project Description

Input Data

| Station (ft) | Elevation (ft) |
|--------------|----------------|
| 0+00.0 | 0.60 |
| 0+05.0 | 0.50 |
| 0+05.5 | 0.50 |
| 0+05.5 | 0.00 |
| 0+07.0 | 0.17 |
| 0+30.0 | 0.63 |
| 0+53.0 | 0.17 |
| 0+54.5 | 0.00 |
| 0+54.5 | 0.50 |
| 0+55.0 | 0.50 |
| 0+60.0 | 0.60 |

| Road Segment Data | | |
|---------------------------|-------------------------|-----------------------|
| Start Station & Elevation | End Station & Elevation | Roughness Coefficient |
| (0+00.0, 0.60) | (0+07.0, 0.17) | 0.013 |
| (0+07.0, 0.17) | (0+53.0, 0.17) | 0.016 |
| (0+53.0, 0.17) | (0+60.0, 0.60) | 0.013 |

Options

4/25/2025 4:42:29 PM Bentley Systems, Inc. Haestad Methods Soild Engineering Master V8i (SELECTseries 1) [08.11.01.03] 27 Siemens Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666 Page 1 of 2

Worksheet for Section B - 100 yr - Michelli Crest STD. 60' R/W -

Results

| | | | |
|------------------|-----------------|---------|-----------------|
| Normal Depth | | 0.56 | ft |
| Elevation Range | 0.00 to 0.63 ft | | |
| Flow Area | | 9.41 | ft ² |
| Wetted Perimeter | | 50.60 | ft |
| Hydraulic Radius | | 0.19 | ft |
| Top Width | | 49.57 | ft |
| Normal Depth | | 0.56 | ft |
| Critical Depth | | 0.63 | ft |
| Critical Slope | | 0.00585 | ft/ft |
| Velocity | | 3.72 | ft/s |
| Velocity Head | | 0.21 | ft |
| Specific Energy | | 0.78 | ft |
| Froude Number | | 1.50 | |
| Flow Type | Supercritical | | |

GVF Input Data

| | | |
|------------------|------|----|
| Downstream Depth | 0.00 | ft |
| Length | 0.00 | ft |
| Number Of Steps | 0 | |

GVF Output Data

| | | |
|---------------------|----------|-------|
| Upstream Depth | 0.00 | ft |
| Profile Description | | |
| Profile Headloss | 0.00 | ft |
| Downstream Velocity | Infinity | ft/s |
| Upstream Velocity | Infinity | ft/s |
| Normal Depth | 0.56 | ft |
| Critical Depth | 0.63 | ft |
| Channel Slope | 1.40 | % |
| Critical Slope | 0.00585 | ft/ft |