

Appendix 104-1: Hydraulic Field Assessment Checklist

Project Data

| | | | |
|---------------------------|--|-------------------------|--|
| Contract Number and Title | | Maintenance Road Number | |
| County | | P6 ID | |
| Stream Name | | Datum | |
| Project Manager | | Field Personnel | |

Structure / Roadway Data

| | | | | | |
|-----------------------------------|--|---|--|---------------------------------|--|
| 1. Bridge or Culvert | | 2. Type/Material | | 3. Number of Spans/Piers | |
| 4. Pier Width | | 5. Pier Skew | | 6. Pier Nose Shape | |
| 7. Abutment Type | | 8. Abutment Skew | | 9. Material | |
| 11. Clear Span Width on Skew | | 10. Span (Normal) or Dia. | | 12. Height (Left/Min/Max/Right) | |
| 13. Cover / Super-structure Depth | | 14. Bottom Material | | 15. Apron (Y or N) | |
| 16. Wingwalls (Y or N) | | 17. Curb or Sidewalk | | 18. Guide Rail / Parapet Height | |
| 19. Superelevation? US or DS | | 20. Embankment / Out-to-Out Width (Direction of Flow) | | 21. Pavement Width | |

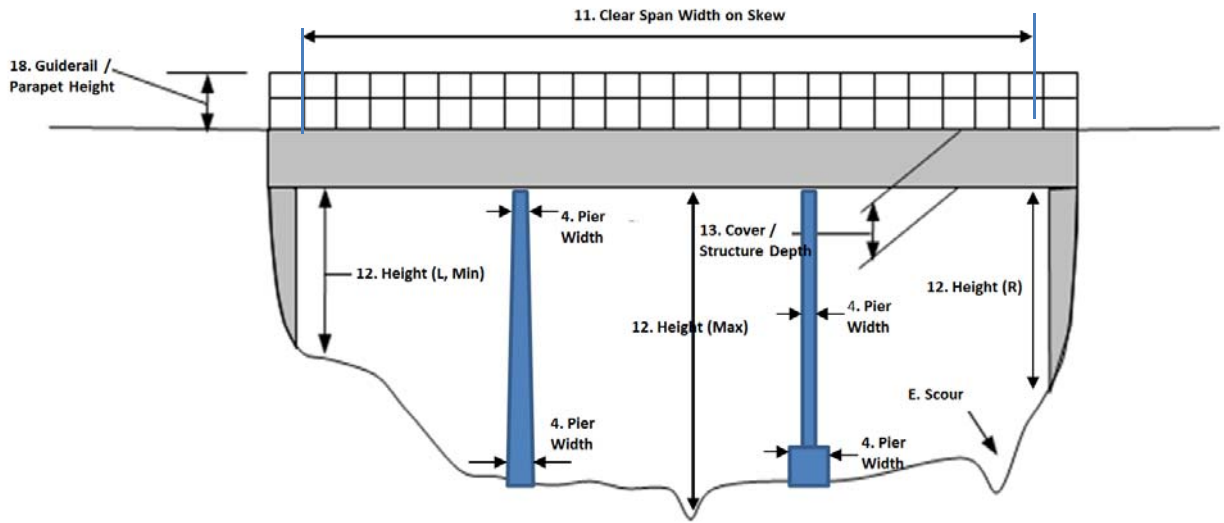
Site Data

| | | | | | |
|--------------------------|--|--------------------------|--|----------------------------------|--|
| A. Historical HWM | | B. Observed HWM | | C. Debris | |
| D. Erosion | | E. Scour | | F. D50 | |
| G. Sediment Accumulation | | H. Normal Flow Depth | | I. Manning n (Left/Center/Right) | |
| J. Watershed Land Use | | K. Upstream Dams? | | L. History of Flooding | |
| M. Upstream Structures | | N. First Floor Elevation | | O. Known Flooding Event? | |

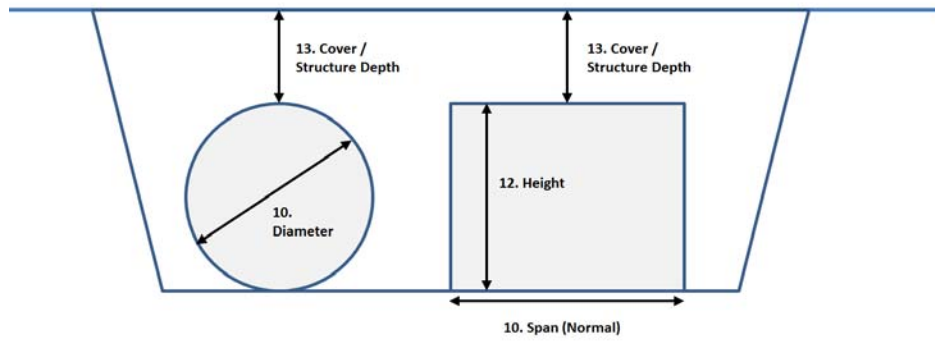
Photo Index No. (Reference is looking downstream)

| | | | | | |
|--|----------------|--|---------------------------|--|--------------|
| | Left Approach | | Looking US from Structure | | US Elevation |
| | Right Approach | | Looking DS from Structure | | DS Elevation |
| | Interior | | Erosion/Scour | | Bed Material |

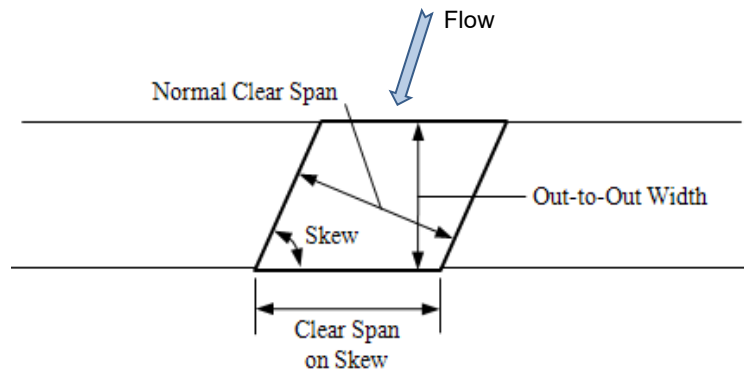
Bridge Dimension Guide



Culvert Dimension Guide



Horizontal Dimension Guide



Manning n and Channel Material Guide

| Channels | |
|---|-------|
| Description | n |
| Clean, straight, no rifts or deep pools | 0.030 |
| Same as above, but more stones and weeds | 0.035 |
| Clean, winding, some pools and shoals | 0.040 |
| Same as above, but some weeds and stones | 0.045 |
| Same as above, but more stones | 0.050 |
| Sluggish reaches, weedy, deep pools | 0.070 |
| Floodways with heavy stands of timber/brush | 0.100 |

| Bed Material | Particle Diameter |
|---------------|-------------------|
| Clay and silt | < 0.002 in |
| Sand | 0.002 - 0.08 in |
| Gravel | 0.08 - 2.5 in |
| Cobbles | 2.5 - 10 in |

| Floodplains | | | |
|----------------------|-------------|--------------------|-------------|
| Description | n | Description | n |
| Grass field | 0.030-0.035 | Light brush/trees | 0.050-0.060 |
| Cultivated – no crop | 0.030 | Medium/dense brush | 0.070-0.100 |
| Cultivated – crops | 0.035-0.040 | Heavy trees | 0.100-0.120 |

Local Testimony

Obtained During Site Investigation: [] No [] Yes

Name:

Phone #:

Address:

Notes:

Name:

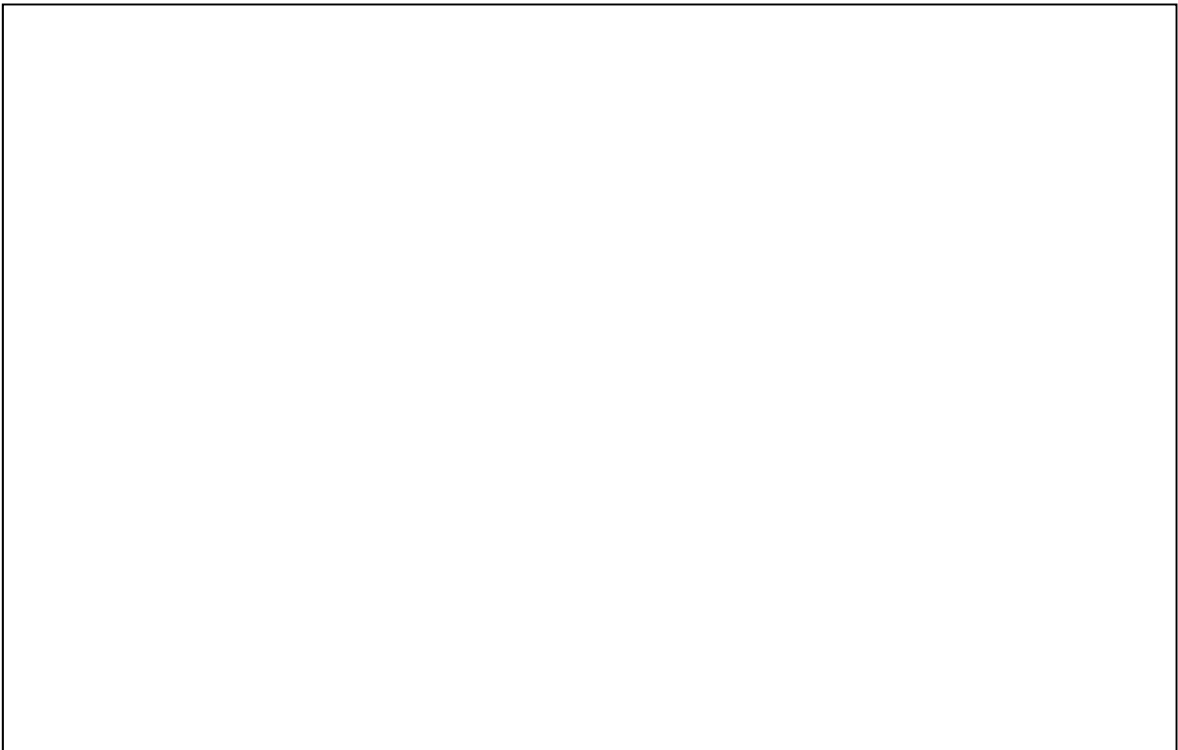
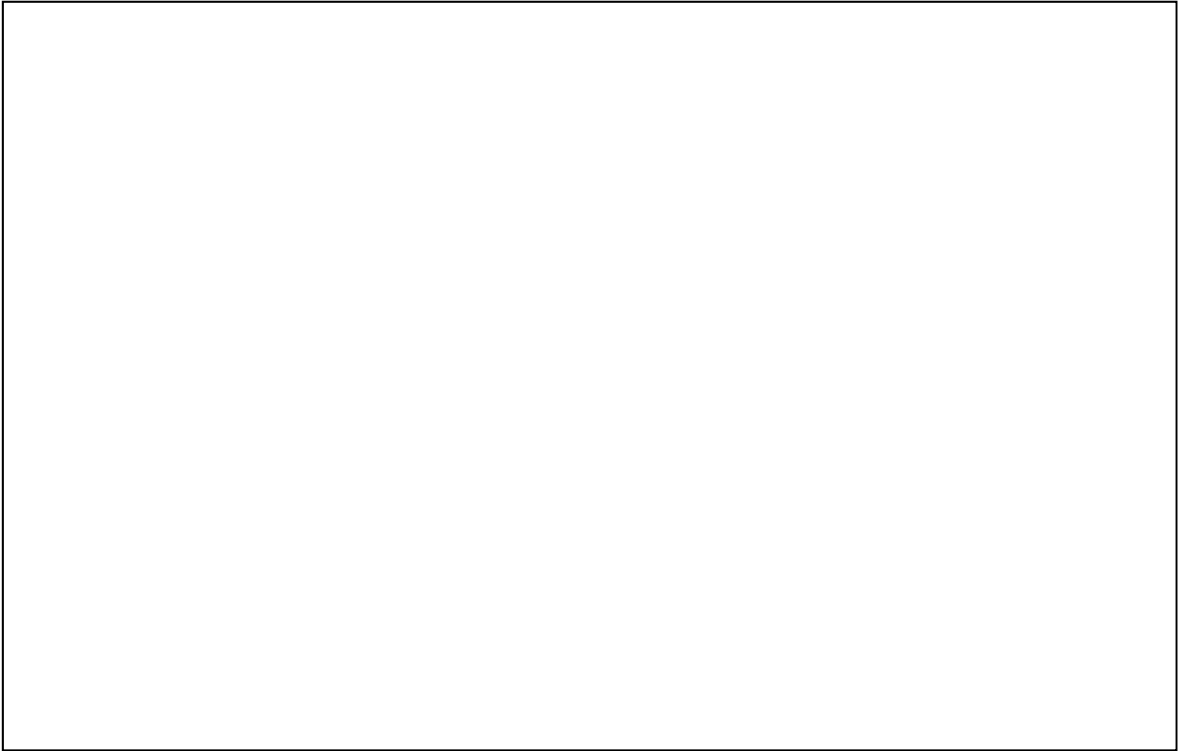
Phone #:

Address:

Notes:

Additional Notes

Sketches



Sketches

