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Michigan Department  
of Transportation  
4200 (04/2026)

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### BRIDGE AND CULVERT DATA FORM

CONTROL SECTION	JOB NUMBER	STATION NUMBER	DESIGN UNIT	STRUCTURE ID NUMBER

LOCATION COORDINATES	
Latitude:	
Longitude:	

PROJECT LOCATION ADDRESS				
Address Line 1:				
Address Line 2:				
City:		State/Area:		Postal Code:

NAME OF STREAM / RIVER / CHANNEL

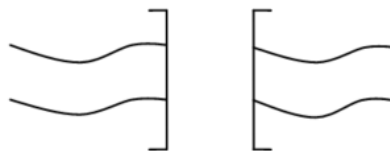
A. WETLAND PROJECT INFORMATION AND IMPACTS (Part 303 – Wetlands Protection)					
1. Total acres of wetland affected by this project			Area (acre)		
Permanent:					
Temporary:					
2. Fill Activity	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
General Fill:					
Road:					
Riprap:					
Temporary Access:					
Culvert:					
Culvert Headwall and Wingwalls:					
Outfall Structure:					
3. Other	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Excavation/Dredge in Wetland:					

B. STREAM PROJECT INFORMATION AND IMPACTS (Part 301 – Inland Lakes and Streams) - Below OHWM					
1. Reference datum used (show on plans with description):					
NAVD 88		NGVD 29		IGLD 85 (Great Lakes coastal areas)	
Other					
Reference point where measurement was taken:					
2. Ordinary High-Water Mark (OHWM) (ft)					
3. Observed/measured water elevation (ft), and date (mm/dd/yyyy)					
4. Linear feet of stream affected by this project				Length (feet)	
Permanent:					
Temporary:					
5. Fill Activity below the OHWM	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Backfill:					
General Fill:					
Road:					
Riprap (inside culvert or under bridge):					
Riprap (outside culvert or bridge):					
Culvert Bedding:					
Other:					
6. Excavation Activity below the OHWM	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Earth Excavation:					
Temporary Channel:					
7. Proposed Structures below the OHWM	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Bridge:					
Culvert:					
Culvert Headwall and Wingwalls:					
Outfall Structure:					
8. Other	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Culvert/Bridge Removal:					
Temporary Access:					

C. BRIDGES AND CULVERTS			
	Upstream (feet)	Downstream (feet)	Cross sectional area of primary channel (square feet)
1. Width of the stream			
2. The width of the stream where the water begins to overflow its banks. Bank full width (feet)			
3. Existing and Proposed Bridge and/or Culvert Information			
	Existing	Proposed	
Number of Culvert Barrels or Bridge Spans:			
Structure Length (parallel to stream) (feet):			
Structure Span (Hydraulic Opening Perpendicular to Stream) (feet):			
Culvert Height (feet) (if bridge enter 0):			
Depth Culvert Recessed (feet) (if bridge enter 0):			
Culvert Invert Elevation Upstream (feet) (if bridge enter 0):			
Culvert Invert Elevation Downstream (feet) (if bridge enter 0):			
Bottom of Bridge Beam Elevation Upstream (feet) (if culvert enter 0):			
Bottom of Bridge Beam Elevation Downstream (feet) (if culvert enter 0):			
Stream Invert Elevation at Bridge Upstream (feet) (if culvert enter 0):			
Stream Invert Elevation at Bridge Downstream (feet) (if culvert enter 0):			
Bridge Rise from Streambed to Bottom of Beam Upstream (feet):			
Total Waterway Opening above Streambed (square feet):			
Total Waterway Opening below the 100-year Flood Elevation (square feet):			
Elevation of Road Grade at Structure (feet):			
Elevation of Low Point in Road (feet):			
Distance from Structure to Low Point in Road (feet):			
Length of Approach Fill from Structure to Existing Grade (feet):			
	Existing	Proposed	
4. Structure Type			
	Specify if other	Specify if other	
5. Culvert Type			
	Specify if other	Specify if other	
6. Culvert Material			
	Specify if other	Specify if other	
7. Structure Entrance Design Type			
	Specify if other	Specify if other	

D. FLOODPLAIN INFORMATION AND IMPACTS (Part 31 – Floodplain Regulatory Authority) – From OHWM to 100-Year Floodplain					
* Only applies if the drainage area of river, stream, or drain is greater than two square miles upstream of the structure or within the 100-year floodplain.					
1. 100-Year Floodplain Elevation					(ft)
2. Excavation/Cut volume below the 100-year floodplain elevation					(cyd)
3. Fill volume below the 100-year floodplain elevation					(cyd)
4. Fill Activity between OHWM and 100-year floodplain elevation	Volume (cu yd)	Volume (cu ft)	Length (feet)	Width (feet)	Depth (feet)
Temporary Activity:					
Other:					

E. RIPARIAN OWNERS
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Riparian Owners are needed for work requiring public notice such as culvert extension that total more than 24 feet or a new or replacement culvert with a 25 square foot (or greater) waterway area.

**MICHIGAN BRIDGE AND CULVERT  
DESIGN GUIDELINES****BRIDGE AND CULVERT DATA FORM GUIDANCE**

- Control Section – Should be provided by the department.
- Job Number - Should be provided by the department.
- Station Number – Include Station Number at the intersection of the roadway alignment and centerline of culvert to indicate approximate location of the proposed culvert.
- Design Unit – Should be provided by the department.
- Structure ID Num – Should be provided by the department.
- Location Coordinates – Provide the coordinates associated with your site. For projects with multiple locations, provide the central point.
- Project Location Address – Enter the information for the project location.
- Name of Stream/River/Channel – Provide the name of the stream, river, or channel you are referencing with this section.

**A. Wetland Project Information and Impacts (Part 303 – Wetlands Protection)**

A1. If there are multiple wetland impact areas, calculate the total impact by summing all areas. Enter the combined total separately for temporary and permanent impacts. An example of temporary impacts is a temporary access road.

A2. – A3. Enter each FILL activity and associated dimensions.

Volume - Indicate the estimated volume of solid material involved in the activity, expressed in cubic feet and cubic yards. Volume input in cubic feet will auto generate once the corresponding Length, Width and Depth are entered.

Length - Indicate the proposed activity average length in linear feet.

Width - Indicate the proposed activity average width in linear feet.

Depth - Indicate the proposed activity average depth in feet.

Use average length, width, and depth in the table in order to accurately depict the area and volume.

**B. Stream Project Information and Impacts (Part 301 – Inland Lakes and Streams) – Below OHWM**

B1. Stream water levels can be referenced using the National Geodetic Vertical Datum of 1929 (NGVD 29), the North American Vertical Datum of 1988 (NAVD 88) or IGLD 85 (Great Lakes coastal areas). A relative elevation can be referenced using a relative elevation conversion from a reference point or benchmark, or conversion from still water elevation. Visit the National Geodetic Survey site here <https://www.ngs.noaa.gov/datums/vertical/>. Select Other if unknown and using a relative elevation.

B2. List the elevation of the OHWM according to the elevation reference selected B1. If using a relative elevation, list the elevation in relation to the reference description B1. For example, OHWM is 1.25 feet below the top elevation of the property boundary marker.

B3. If the OHWM elevation listed was converted from still water, provide the observation date. If using a datum, use today's date.

## BRIDGE AND CULVERT DATA FORM GUIDANCE

- B4. Enter totals of temporary and permanent impacts for these resource types.
- B5. – B8. Enter each FILL or EXCAVATION activity and associated dimensions.  
Volume - Indicate the estimated volume of solid material involved in the proposed activity, expressed in cubic feet and in cubic yards. This should represent only the volume of the physical structure or fill—excluding any voids or openings. Volume input in cubic feet will auto generate once the corresponding Length, Width and Depth are entered.  
Length - Indicate the proposed activity average length in linear feet.  
Width - Indicate the proposed activity average width in linear feet.  
Depth - Indicate the proposed activity average depth in feet.  
Use average length, width, and depth in the table in order to accurately depict the area and volume. See Figure 1-4 for guidance.

### C. Bridges and Culverts

- C1. Enter values for the stream width (feet) upstream and downstream. This measurement is to be taken at the OHWM where the culvert is proposed and outside the influence of any ponding or scour holes around existing structures.
- C2. Enter value for the width of the stream where the water begins to overflow its banks. Bank full width in feet.
- C3. Enter values for existing and proposed bridge and/or culvert information. If there is no existing structure, enter 0.

Number of Culvert Barrels or Bridge Spans: Enter the number of culvert barrels or bridge spans.

Structure Length: Enter the total hydraulic length of culvert or bridge parallel to stream in feet. See Figure 3 and 5 for guidance.

Structure Span: Enter the hydraulic opening span length perpendicular to stream (for culverts this would be the culvert width for one barrel) See Figure 3 and 5 for guidance.

Culvert Height: The height of the culvert without any recess or bury depth.

Depth Culvert Buried: Enter total feet the culvert bottom will be buried. Does not apply to bridges so enter "0".

Culvert Invert Elevation Upstream: The elevation of the culvert invert on the upstream end (bottom of the culvert, as it sits below the recess, not including any fill in the culvert bottom).

Culvert Invert Elevation Downstream: The elevation of the culvert invert on the downstream end (bottom of the culvert, as it sits below the recess, not including any fill in the culvert bottom).

Bottom of Bridge Beam Elevation (Upstream) (feet): For culverts enter "0".

## BRIDGE AND CULVERT DATA FORM GUIDANCE

Bottom of Bridge Beam Elevation (Downstream) (feet): For culverts enter "0".

Stream Invert Elevation at Bridge Upstream (feet): The stream bottom elevation on the upstream end of bridge.

Stream Invert Elevation at Bridge Downstream (feet): The stream bottom elevation on the downstream end of bridge.

Bridge Rise from Streambed to Bottom of Beam Upstream (feet): The height between stream bottom and bottom of beam.

Total Waterway Opening above Streambed (square feet): The total square foot area that would allow passage of water through the structure opening.

Total Waterway Opening below the 100-year Flood Elevation (square feet): This is the total square foot area that would allow passage of water that is below the 100-year flood elevation.

Elevation of Road Grade at Structure (feet): The elevation of the road grade above the structure. See Figure 6 for guidance.

Elevation of Low Point in Road (feet): Enter the elevation of the lowest point in the road nearest the structure. See Figure 6 for guidance.

Distance from Structure to Low Point in Road (feet): How far (in feet) from the mid-point of the structure to the low point in the road. See Figure 6 for guidance.

Length of Approach Fill from Structure to Existing Grade (feet): How far (in feet) from the edge of the roadway does any fill used for the structure extend before it reaches the existing grade. See Figure 3 for guidance.

- C4. Identify the type of structure.
- C5. Identify the type of culvert.
- C6. Identify the existing and proposed culvert material.
- C7. Identify the entrance design type for the existing and the proposed structure.

### D. Floodplain Information and Impacts (Part 31 – Floodplain Regulatory Authority) – From OHWM to 100-Year Floodplain

- D1. If the 100-year floodplain elevation is unknown, please enter "unknown".
- D2. Provide excavation/cut volume between OHWM and 100-year floodplain elevation.
- D3. Provide fill volume between OHWM and 100-year floodplain elevation.

## BRIDGE AND CULVERT DATA FORM GUIDANCE

- D4. Provide fill activity between OHWM and 100-year floodplain elevation.  
Volume - Indicate the estimated volume of solid material involved in the activity, expressed in cubic feet. Volume input will auto generate once the corresponding Length, Width and Depth are entered.  
Length - Indicate the proposed activity average length in linear feet.  
Width - Indicate the proposed activity average width in linear feet.  
Depth - Indicate the proposed activity average depth in feet.  
Use average length, width, and depth in the table in order to accurately depict the area and volume.

### E. Riparian Owners

- Include Riparian Owners' name
- Include Riparian Owners' address (street, city, state, zip code)
- Include Assessor's Parcel Number (APN)
- Select orientation of North arrow
- Select direction of stream flow
- Indicate name of roadway over culvert

# BRIDGE AND CULVERT DATA FORM GUIDANCE

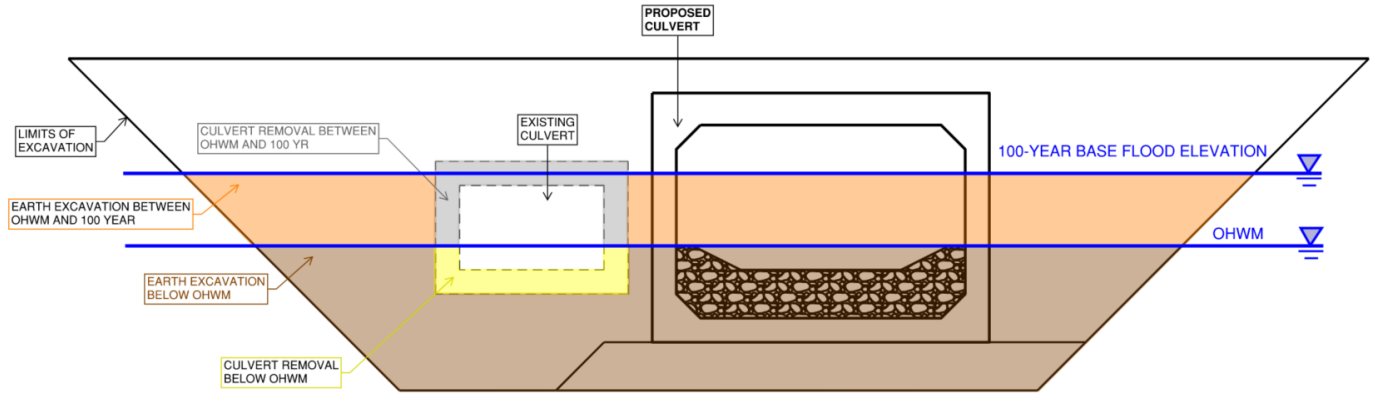


Figure 1. EXCAVATION (Removal) Cross Section Area

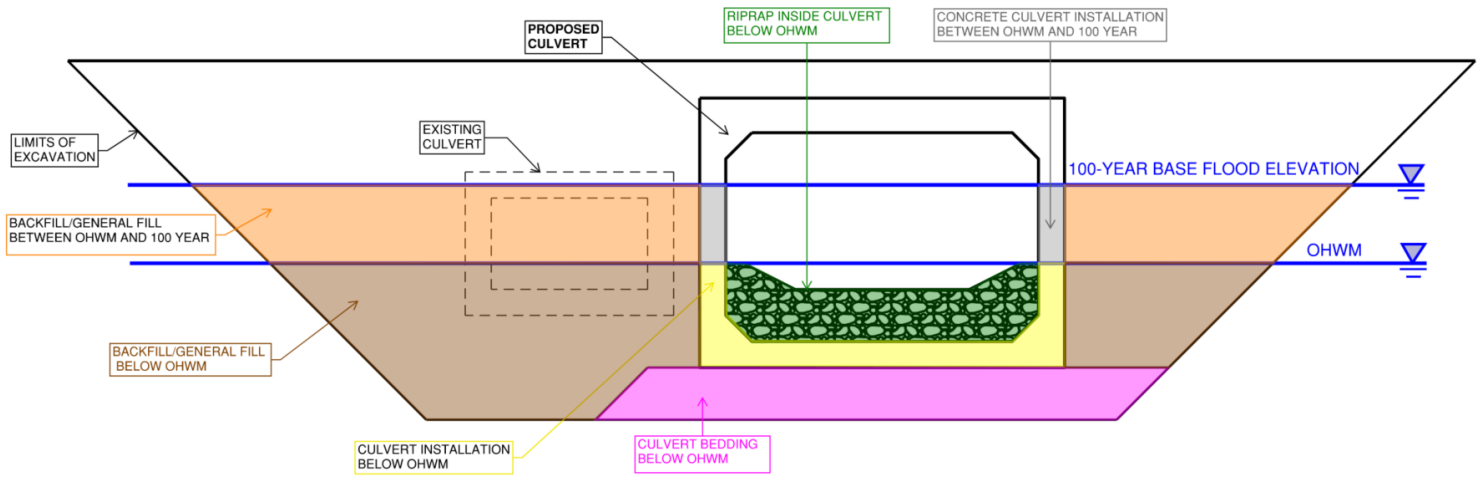


Figure 2. FILL (Proposed Improvements) Cross Section Area

## BRIDGE AND CULVERT DATA FORM GUIDANCE

- a. Length of culvert
- b. Width of fill (distance parallel to stream)
- c. Length of fill (distance perpendicular to stream)
- d. The horizontal distance from the edge of the roadway to the bottom of the culvert
- e. The horizontal distance from the edge of the roadway to the bottom of the culvert

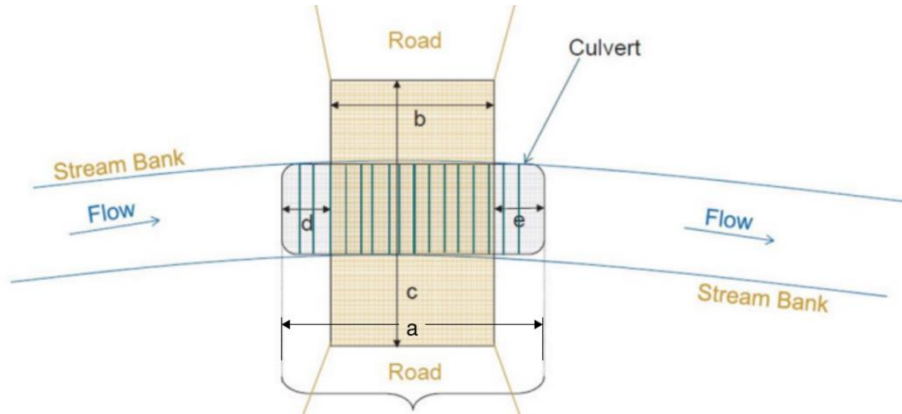


Figure 3. Culvert Plan View Quantities

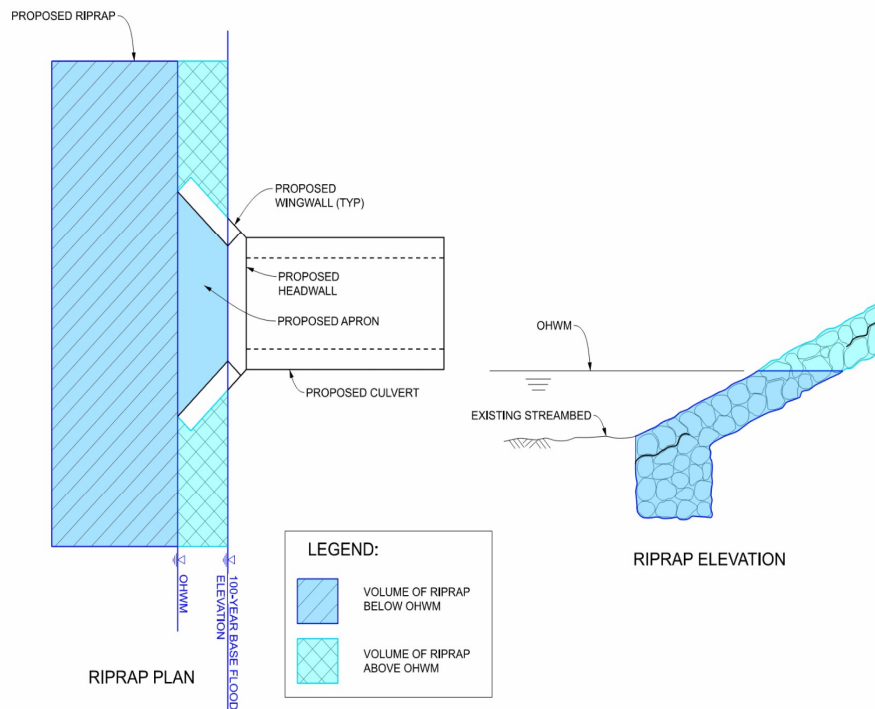


Figure 4. Riprap Quantities Outside of Culvert

# BRIDGE AND CULVERT DATA FORM GUIDANCE

- a. \_\_\_\_\_ Bridge span
- b. \_\_\_\_\_ Bridge width

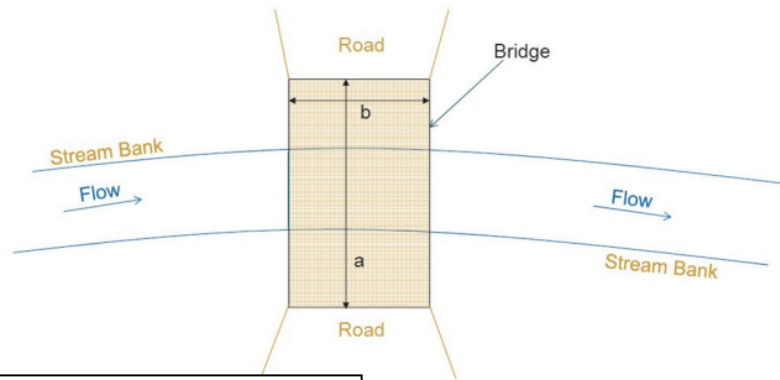


Figure 5. Bridge Plan View Quantities

## Distance from Low Point in Road

- a. \_\_\_\_\_ Elevation at low point in road –OR- difference in height from road surface at that location, and above culvert
- b. \_\_\_\_\_ Elevation at road grade –OR- height
- c. \_\_\_\_\_ Distance from low point in road to center of crossing

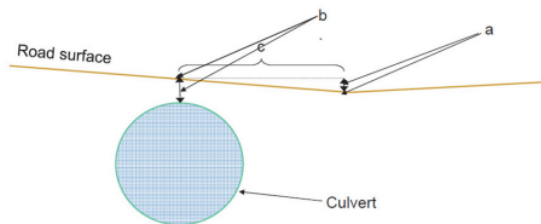


Figure 6. Road Profile View