

MANUAL DE DISEÑO DE UN PUENTE CON ESTRIBOS USANDO EL PROGRAMA HEC-RAS

Coordenadas del tramo a analizar

	X	Y
Punto de inicio	438360.881	875563.43
Punto final	438489.531	875166.27

Datos de la estructura

Tipo de puente	Puente tipo losa
Material	Concreto armado
Estación en la que se ubica el puente	198
Longitud del puente	70 m
Width - Ancho del puente (2 barreras, 2 bermas, 2 carriles)	9 m
Espesor de la losa	0.5 m
Altura de estribos	6.8 m

Características para el tablero del puente

	TABLERO DEL PUENTE					
	Upstream (aguas arriba)			Downstream (aguas abajo)		
	Station	High Chord	Low Chord	Station	High Chord	Low Chord
1	45	47.3	46.8	45	47.3	46.8
2	105	47.3	46.8	105	47.3	46.8

Coordenadas para los estribos

	ESTRIBO #1 (lado izquierdo)				ESTRIBO #2 (lado derecho)			
	Upstream		Downstream		Upstream		Downstream	
	Station	Elevation	Station	Elevation	Station	Elevation	Station	Elevation
1	45	46.8	45	46.8	90	46.8	90	46.8
2	63	46.8	63	46.8	105	46.8	105	46.8
3	63	40.0	63	40.0	105	40.0	105	40.0

Datos hidráulicos

- Los Caudales por cada periodo de retorno estimado:

Periodo de Retorno (Años)	T= 5	T=10	T=50
Caudales (m³/s)	10	20	30

- Tipo de flujo:** Flujo permanente.
- Rugosidad:**
 - En el banco central, el material de cauce es llanuras de inundación con hierbas por lo que $n = 0.035$
 - En los bancos laterales, el material del cauce es tierra con vegetación por lo que $n = 0.027$
- Reach Boundary Conditions - Condiciones de borde:**

Río	Profile	Upstream	Downstream
Río Uré	All	Normal Depth	Critical Depth

Manual De Dise O Mecanico

Lingjun Ying



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