

H. LABAN WHITE MEMORIAL BRIDGE PROJECT

Alternatives Matrix

	Description	Alternative No. 1 New Bridge at Existing Location Y Intersection	Alternative No. 2 New Bridge 80' Upstream 4-Way Intersection	Alternative No. 3 New Bridge 120' Upstream T-Intersection	Alternative No. 4 New Bridge 160' Downstream T-In- tersection	Alternative No. 5 New Bridge at Existing Location Roundabout	Alternative No. 6 New Bridge 80' Upstream Roundabout
Objectives	Meets Project Needs?	Yes	Yes	Yes	Yes	Yes	Yes
	Meets ADA Requirements?	Yes	Yes	Yes	Yes	Yes	Yes
Geometric Features	Design Speed	30 MPH (US 19); 25 MPH (WV 20)	30 MPH (US 19); 25 MPH (WV 20)	30 MPH (US 19); 25 MPH (WV 20)	30 MPH (US 19); 25 MPH (WV 20)	30 MPH (US 19); 25 MPH (WV 20)	30 MPH (US 19); 25 MPH (WV 20)
Bridge Feature	Bridge Length	180' ; 100'	180' ; 100'	185' ; 100'	175' ; 100'	180' ; 100'	180' ; 100'
	Number of Spans	1 ; 1	2 ; 1	2 ; 1	1 ; 1	1 ; 1	1 ; 1
	Overall Bridge Width	50'-4" ; 77'	39'-4" ; 50'-4"	39'-4" ; 50'-4"	50'-4" ; 55'-4"	44'-4" ; 72'-6"	39'-4" ; 47'-6"
Maintenance of Traffic	H. Laban White Memorial Bridge	Temporary Detour Across West Fork River	Existing Bridge	Existing Bridge	Existing Bridge	Temporary Detour Across West Fork River	Existing Bridge
	West Pike Street Bridge	Temporary Detour Across West Fork River	Temporary Detour on Existing Roads or Across Elk Creek	Temporary Detour on Existing Roads or Across Elk Creek	Existing Bridge	Temporary Detour Across West Fork River	Temporary Detour on Existing Roads or Across Elk Creek
	Pedestrian Accommodations	Existing Bridges and Temporary Detour	Existing Bridges and Temporary Detour or Transit / Ride Hail	Existing Bridges and Temporary Detour or Transit / Ride Hail	Existing Bridges	Existing Bridges and Temporary Detour	Existing Bridges and Temporary Detour or Transit / Ride Hail
Right-Of-Way Impacts	Local Roads	3	4	4	5	4	4
	Commercial Structures	3	4	4	4	4	4
	Commercial Driveways	6	9	9	11	9	9
Utility Impacts	Utility / Light Pole Relocations	10	14	12	8	11	17
	Power Line Relocations	2413' (Aerial)	3326' (Aerial)	3086' (Aerial)	2410' (Aerial)	2924' (Aerial)	3354' (Aerial)
	Telephone Line Relocations	2129' (Aerial); 331' (Underground)	2986' (Aerial); 618' (Underground)	2859' (Aerial); 627' (Underground)	2370' (Aerial); 435' (Underground)	2660' (Aerial); 314' (Underground)	3014' (Aerial); 642' (Underground)
	Fiber Optic Line Relocations	2490' (Aerial); 153' (Underground)	3238' (Aerial); 202' (Underground)	3238' (Aerial); 301' (Underground)	2190' (Aerial); 69' (Underground)	2847' (Aerial); 208' (Underground)	3356' (Aerial); 247' (Underground)
	Water Line Relocations*	174' (8"); 280' (16")	8' (6"); 174' (8"); 280' (16")	8' (6"); 174' (8"); 280' (16")	8' (6"); 174' (8"); 280' (16")	8' (6"); 174' (8"); 280' (16")	8' (6"); 174' (8"); 280' (16")
	Gas Line Relocations*	1052'	1762'	1736'	2173'	1709'	1933'
Environmental Impacts	West Fork River	Permanent New Bridge Same Location Temporary Detour Bridge Downstream 2 Temporary Causeways	Permanent New Bridge Different Location 3 Temporary Causeways	Permanent New Bridge Different Location 3 Temporary Causeways	Permanent New Bridge Different Location 2 Temporary Causeways	Permanent New Bridge Same Location Temporary Detour Bridge Downstream 2 Temporary Causeways	Permanent New Bridge Different Location 3 Temporary Causeways
	Elk Creek	Permanent New Bridge Same Location 1 Temporary Causeway	Permanent New Bridge Same Location 1 Temporary Causeway	Permanent New Bridge Same Location Temporary Bridge Upstream 1 Temporary Causeway	Permanent New Bridge Same Location 1 Temporary Causeway	Permanent New Bridge Same Location 1 Temporary Causeway	Permanent New Bridge Same Location Temporary Bridge Upstream 1 Temporary Causeway
	Wetlands	No	No	No	No	No	No
	Listed Species	No	No	No	No	No	No
	Cultural	Yes	Yes	Yes	Yes	Yes	Yes
Traffic Impacts	Intersection Type	Unsignalized	Signalized	Signalized	Signalized	Roundabout	Roundabout
Preliminary Cost	Total Cost	\$18,058,350.00	\$18,643,630.00	\$18,249,650.00	\$17,954,310.00	\$18,909,350.00	\$18,108,630.00