BRIDGE DESIGN PRELIMINARY PLAN CHECKLIST



PROJECT INFORMATION • Project Name:	• Designer:
• Project No:	• Checker:
Bridge No.:	Drafter:
Location:	• Reviewer:

Preliminary Plan Tasks	Y	N	N/A	Designer			
				Checker		DATE	
Preliminary Data Collection				Reviewer			
Wetland and Shoreland Permit Plans				Comments:)
Final Line and Grade						$\overline{}$	
ROW Purchase Plans				/	Checklist is	to be used a	us a
Draft POW and TCP					general quid		
Preliminary Geotechnical Report						<u>e</u> . Addition	
					information		
				(plans.	
					て 、	, /	
Front Sheet Plan						DATE	
Project Titles				Comments:			
Location Map							
Approval Signature Box							
Traffic Data							
Project Layout with bridge number							
Preliminary General Plan and Elevation						DATE	
Design Loads, Materials and Specifications				Comments:			
Hydraulic Data							
Summary of Prelim. Bridge Quantities Table							
Bridge General Plan							
 Oriented with over-road upstation to the 							
right and centerline at horizontal, if							
possible	<u> </u>						
Proposed Alignment and Stations	<u> </u>						
Alignment Data	<u> </u>						
Intersection Stations and Angles	<u> </u>						
Begin and End Bridge Stations & FG Elev	<u> </u>						
Expansion and Fixed Joints	<u> </u>						
○ Traffic Arrows	<u> </u>						
 Span Lengths and Numbers 							
 Angles between Bents and Centerline 							
 Proposed Utilities 							

Preliminary Plan Tasks Cont.	Y	N	N/A	Designer Checker	DATE	
Prelim. General Plan and Elevation Cont.				Reviewer	DATE	
○ Right-of-way Lines				Comments:		
North Arrow						
 Proposed Slopes and Limits of Toe of Slopes 						
Proposed Channel Protection						
Stream Name and Flow Arrow						
Proposed Drainage						
Label Point of Min. Vertical Clearance						
 Outline of Bridge, Approach Slab, Piers, and Wingwalls 						
Working Line/ Construction Line				=		
Proposed Bridge and Approach Rail				=		
Label Roadways				=		
 Dimension Out to Out of Bridge Width 						
 Dimension Rail to Rail and Coping Width 						
Length of approach slab						
Bridge Elevation						
Proposed Bridge Projected from Plan						
Proposed Channel Protection						
○ OHW and 100 yr Flood Call-out w/ Elev						
Proposed Bridge and Approach Rail						
, , , , , , , , , , , , , , , , , , ,						
Preliminary Site Plan and Profile					DATE	
Profiles of upper and lower roadways or railroad				Comments:		
Typical approach cross sections for upper				-		
and/or lower roadways and channel						
Excavation and Fill Limits						
Item numbers						
Elevations						
Bridge Site Plan						
 Oriented with over road upstation to the 						
right and centerline at horizontal, if possible						
 Deck not shown. Show channel or roadway below deck 						
 Outline of Proposed Substructures, Footings, Approach Slab, Wingwalls 						
Outline of Existing Bridge						
Proposed Alignment and Stations	1			1		
Alignment Data						
 Intersection Stations and Angles 						
 Begin and End Bridge Stations & FG Elev 						
 Expansion and Fixed Joints 						
Traffic Arrows						
Angles between Bents and Centerline						
Proposed Utilities						
○ Right-of-way Lines/ Easements	1					
North Arrow						
Proposed Slopes						
 Proposed Channel Protection 						
 Stream Name and Flow Arrow 						

Preliminary Plan Tasks Cont.	Y	N	N/A	Designer Checker	DATE	
Prelim. Site Plan and Profile Cont.				Reviewer		
O.H.W., T.O.B., Shoreland, and 500 yr. Scour Line				Comments:		
Proposed Drainage						
Existing Detail						
Existing Contours						
Detour bridge/ Temporary Diversion						
Proposed Approach Rail						
Limits of all toe of slopes						
'						
Bridge Profile						
 Grade/ Vertical Curvature/ Profile Grade 						
 Profile of Bridge, Substructures and 						
Approach Slabs						
 Approximate Existing Ground Line 						
 Approximate Existing Bottom of Channel 						
Datum Elevation Line						
 Slopes of embankments, type and thickness of slope protection 						
Berm location. elevation and width						
Finished and Existing Grade Elevations						
Railroad/ Cross Road						
High Water, O.H.W., Scour Elevations						
Minimum Vertical Clearances						
 Bottom of Footing, Piles, and/or Drilled 						
 Shafts Elevations 						
Foundation Types						
 Vertical Curve Data 						
 Track dimensions, centerline and ditches if railroad is involved 						
 Length of each span measured along profile grade line 						
Expansion and Fixed Bearing Locations						
Begin, End and Pier Bridge Stations & FG						
Elevations						
Preliminary Boring Log					DATE	
Boring Logs				Comments:		
 Label Bottom of Footing and Water Level 						
Boring Notes						
Boring Layout Plan and Locations		-	-			
Proposed Alignment and Stations		-				
Alignment Data Allerth American		-	-			
North Arrow Outline of Fulction Bridge	-	-	-			
Outline of Existing Bridge						
Existing DetailOutline of Proposed Bridge Substructures,		-	-			
Footings and Wingwalls						
Boring Location Symbols and Label		1	-			
Doming Education Cymbols and Eaber						
Abutment and Pier Developed View					 DATE	
Developed abutment, wingwalls, and					 	
pier elevations and sections						

				Designer		
Preliminary Plan Tasks - Cont.	Y	N	N/A	Checker	DATE	
Abut. and Pier Developed View Cont.				Reviewer	21112	
Proposed Ground				Comments:		
Existing Ground						
Outline of new and existing substructures						
Excavation and Backfill Limits						
Elevations						
Structural Fill						
Wingwall Lengths						
Weepers						
Section of each substructure						
Footing dimensions						
Phase Construction Location						
Working Line/ Construction Line Location			_			
Piles/ Drilled Shafts		 	-			
Existing and Proposed Utilities		-	-			
S Existing and I roposed officies						
Deck Section (Looking Up station)					DATE	
Bridge, lane, shoulder, and curb width				Comments:		
Cross Slope in Percent				Commonto.		
Superelevation Rate						
Centerline of Construction/ Working Line						
Proposed Bridge Rail						
Limits of Sealer						
Conduits/ Utilities on Bridges						
Girder Type, Number and Spacing						
Closure Pour						
Phase Construction						
Temporary Barrier Locations						
Overlay Type and Depth						
Overlay Type and Depth Deck Depth		-	-			
Curb Reveal						
Outside Curb Depth		-	-			
Outside Curb Depth Item Numbers		-	-			
- item numbers		-	-			
		-	-			
Preliminary Estimate					DATE	
Title Block w/ project name, number,				Comments:		
location, bridge number, & date						
Based on preliminary quantities						
and construction costs						
Include contingencies						
			-			
			-			