## **GIRDER LAYOUT SHEET CHECKLIST**

BD-0337 (REV 10/07/2022)



Project ID:	EA:	Project Name:			Date:
Deteiler		Decimen		Charles	
Detailer:		Designer:		Checker:	
	e Design Technician applicable (NA).	T), Designer(D), a	nd Checker(C) are r	responsible for checking each	item or
T D C NA	Plan				
1.	Orient on sheet the same as the GENERAL PLAN.				
2.	The maximum scale is $\frac{1}{8}$ " = 1'-0". Use 1" = 20' for line diagram type GIRDER LAYOUT.				
3.	Show North arrow.				
<b></b> 4.	Show girders with solid lines (view is below the deck).				
5.	Show and place intermediate diaphragms parallel to transverse deck reinforcement.				
	a) Precast girde	er intermediate diap	hragms and other o	details shown on typical XS-sl	neets.
6.				sheets when possible.	
∐∐∐ 7.		heet if there is not		N sheet. Detail can also be p PICAL SECTION. For "DETA"	
<b>                                     </b>	Dimension length of supports from station line to centerline of exterior girders, but do not show intermediate girder spacing unless it differs from the TYPICAL SECTION.				
9.	Do not show stations and layout given on GENERAL PLAN and FOUNDATION PLAN.				
10.	On girder layouts for	steel girders detai	the length and bea	ring of girders.	
11.	Length of girders are girders on the GIRD	-	ast girder standard	XS-sheets but note the beari	ng of the
12.	Show vertical fillets (	not required for ske	ews less than 20-de	grees).	
13.	Show Utility Opening	g locations and call	out type with refere	nce to the appropriate <i>Standa</i>	ard Plan.
14.	Dimension girder fla	re lengths.			
	<ul><li>a) Sloped exter minimum 16-</li></ul>		flared to 18" web th	nickness at the end diaphragr	ns over a
15.	Dimension girder ste	em thickness.			
16.	Show portion of trans	sverse deck reinfor	cement layout.		
□□□□ <sub>17.</sub>	Show details of skew	ved deck corners a	t ends of bridge, bei	nt joints and hinges.	
□□□□ 18.	Show soffit and decl	caccess openings.			
19.	Show Soffit Vent Ho	les.			
20.	Do not show ducts of	r duct vents.			
	Longitudinal So	ection			
1.	Show stirrup spacing ends.	g. Stirrup spacing s	shall not exceed 12"	within 8 feet of supports and	anchor
2.	Show soffit flares ne	ar supports.			

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BD-0337 (REV 08/01/2022)



	Longitudinal Section Cont'd			
3.	Show cable path for prestressed bridges. Note control dimensions to center of gravity of prestressing force at centerline of supports and locate inflection points of cable path. Dime high points, low points, points of inflection and cable ends from bottom of soffit. The cable should be labeled as parabolic between points shown.			
4.	Add standard cell for PRESTRESSING NOTES for each frame and construction stage.			
	<ul> <li>a) Specify P<sub>jack</sub> and the number of girders for which it applies.</li> <li>b) Include all assumptions for prestress losses (assumed K and μ as well as average long term loss stress).</li> </ul>			
	c) Include the final force ratio allowed between any two girders.			
	d) Clearly identify the physical location of the point of no movement along the cable path in the LONGITUDINAL SECTION view. Indicate the force coefficient at the point of no movement in decimal form (round to nearest 0.001).			
	<ul> <li>e) Specify either one end or two end stressing. If one end stressing, specify which end is to be the stressing end.</li> </ul>			
	Camber Diagram			
1.	Draw proportionally correct, but do not add scale.			
2.	Use one diagram for all girders except unusual conditions.			
3.	Avoid negative camber values especially in conjunction with flat bridge profiles.			
4.	Camber units are shown in feet and to the nearest 0.01'.			
	<ul> <li>a) For precast girders, camber values are tabulated on precast girder standard detail sheets.</li> </ul>			
	End Diaphragm Section			
1.	The minimum scale is ½" = 1'-0".			
2.	SECTION should be taken from PLAN view on GIRDER LAYOUT sheet.			
□□□□ 3.	Show width of End Diaphragm.			
4.	Show approximate prestress blockout location. For prestressing Grillage, reference <i>Standard Plan B8-5</i> . For reinforcement, see <i>Bridge Design Memo 5.26</i> .			
<b>5</b> .	Show Joint Seal Blockout for movement ranges greater than 2".			
6.	Show all reinforcement.			
<b>7</b> .	Show limits of Transverse Reinforcement in deck and soffit.			
□□□□ 8.	Only show lines that intersect the section cut plane (do not show lines and reinforcement that beyond the section cut plane).			
9.	In some cases, multiple SECTIONS may be required. If multiple SECTIONS are required, then consider adding END DIAPHRAGM DETAILS sheet.			