***** English Hydraulic Preliminary Layout Data ***** *****************************							
Date Submitted to Cadd: Initials:	Initials: Target Date for Complet		ion: Date Returned from Cadd:				
Project Title:	over_						
		Cour					
Project #:							
P.E. #:		Superviso					
Bridge I. D. #: ft		Roadway	Width:		ft		
Bridge Length: ft		Superstru	cture Depth:	Finish Grade El Lov	ow Cord El.		
Begin Bridge Sta.:		Subgrade	Slope: <u>2:1</u>				
End Bridge Sta.:	<u>(±)</u>		:h:				
Berm @ Abut. #1			yr.)				
Berm @ Abut. #2				mpl	h		
Rip Rap to [] El ft [] ed	dge of shoulder						
Sub Structure Skew Angle: or To equal beam lengths or spar [] See attached sketch for span arran [] Scale of Drawing [] Ordinary High Water El [] 100 year Bridge Backwater El [] year Bridge Backwater El [] Estimated design (yr.) scour [] Gravel filter blanket if required (p [] Insert Haul Road cross-section. Existing Groundline provided by: Hydraulic D	n lengths from Begin gement. ft ft ft (if less than less	Bridge Sta. n overtoppir . MOST DESI	ng). IRABLE**),				
Drainage Area		m	.; ²				
Design Discharge (yr)							
	 Discharge						
Water area provided below El.		,					
yr Velocity							
yr Bridge Backwater				ft			
Roadway Overtopping Elevation		It ft		11			
[] 100 year Discharge cfs [] year Discharge cfs				Din Dan Ita			
	@ El1			Rip- Rap Ite			
[] For overflow data see attached.		[] A-1		709-05.06			
53 M. Hand Die Donahall be al	1 " "! o o o o u d o	[] B		709-05.08			
[] Machined Rip-Rap shall be cl			cu qu	709-05.09			
with Section 709 of the Stand	-		o 6" Stone	709-05.04	8" tk.		
shall be paid for under item #	:>>	,	ee RD-SA-1)	5 00 0 7	C. A		
		1	d Placed ble-Stone	709-07	ft tk.		

[] []	Use STD-1-1 Bridgerail. (See STD-1-2 for Deck Drains) Use STD-7-1 (open) Bridgerail.						
	Use STD-1-1 (open) Bridgeran. Use STD-11-1 Bridgerail with structural tubing. (See STD-1-2 for Deck Drains)						
[]	Use prestressed beams. [] Type of beam is designers choice. Use inch deep steel girders.						
[] [] []	Use solid shaft piers. Use post piers. Use Hammerhead piers. [] Existing piers to [] Use concrete pill [] Type of pier is of [] Type of []	ncrete pile bents.					
[]	See Drawing # for similar bri	idge design.					
[] [] []	Maintain traffic by stage construction. Maintain traffic on existing structure. Maintain traffic by temporary runaround. Close road during construction. Existing bridge # and approximately a structure and approximately a structure.	aches to be remove	ed to natural ground l	petween			
LJ	stations and		<u>Drain Stations</u>				
[]	Bridge deck drains are not required. Bridge deck drains are required.	Left of CL	Right of CL	<u>Both</u>			
	[] Parapet Type Curb Opening (STD-1-2)						
	[] Grate Type Opening (STD-1-2) Type: (1 or 2)						
	[] See Attached for Stationing.						
[]	End of bridge drains are not required. End of bridge drains are required as shown in plan view.						
	[] 2' x 8'-7" with end of bridge pavement (see STD-1-6, 7, and 8). [] 4' x 8'-7" with end of bridge pavement (see STD-1-6, 7, and 9).						
	[] 2' x 8'-7" without end of bridge pavement (se [] 4' x 8'-7" without end of bridge pavement (se Note: End of Bridge Drains only to be used with STD-1-1 or S	e STD-1-10, 11, ai					
[]	The structural designer shall discuss footing placement with the hydraulic designer when foundation data becomes available.						
[]	See SMO #27 and foundation report recommendations for footing placement. Any excavation of the stream channel area (e.g. for rip-rap or pier placement) shall be separated from flowing water during low-flow conditions. This shall be accomplished by the use of flumes, lined diversion channel with sand bag berm, diversion pipe with sand bag dam at pipe inlet or in some cases cofferdams.						