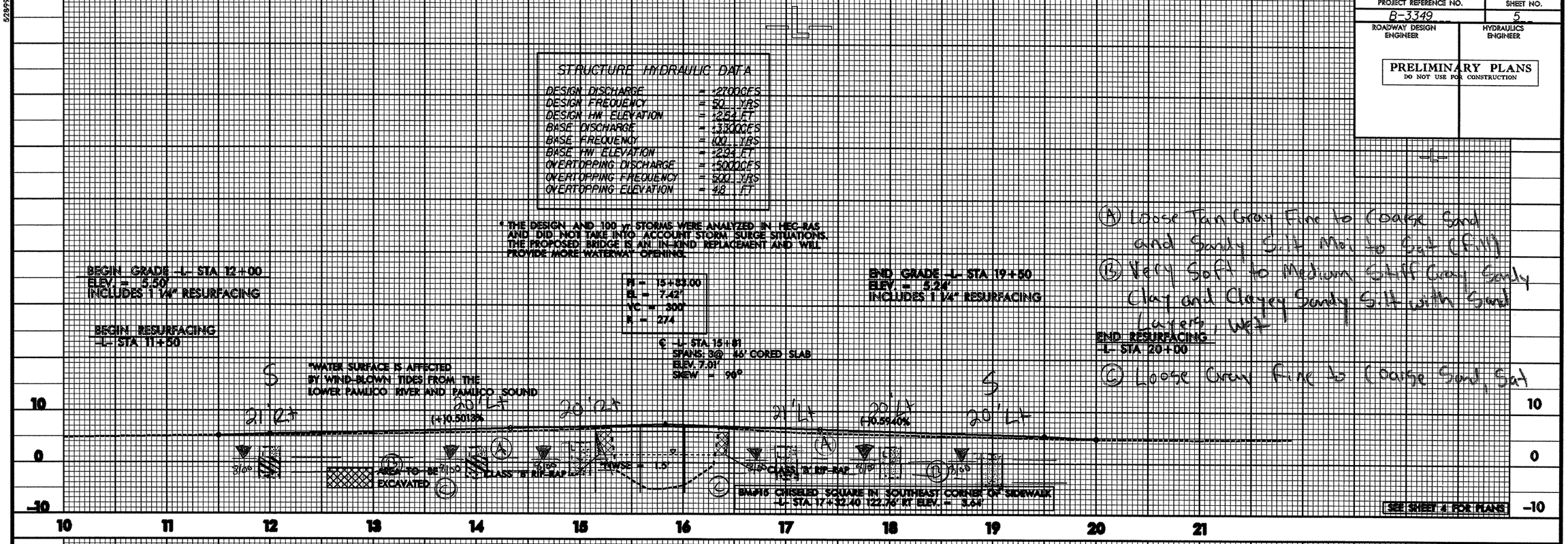
PROJECT REFERENCE NO.	SHEET NO.
B-3349	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= +2700CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= +2.54 FT
BASE DISCHARGE	= +3300CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= +2.94 FT
OVERTOPPING DISCHARGE	= +5000CFS
OVERTOPPING FREQUENCY	= 500 YRS
OVERTOPPING ELEVATION	= 4.8 FT

* THE DESIGN AND 100 yr. STORMS WERE ANALYZED IN HEC-RAS AND DID NOT TAKE INTO ACCOUNT STORM SURGE SITUATIONS. THE PROPOSED BRIDGE IS AN IN-KIND REPLACEMENT AND WILL PROVIDE MORE WATERWAY OPENING.



(A) Loose Tan Gray Fine to Coarse Sand and Sandy Silt Moi to Sat (Fill)
(B) Very Soft to Medium Stiff Gray Sandy Clay and Clayey Sandy Silt with Sand Layers, Wet
(C) Loose Gray Fine to Coarse Sand, Sat

Soil Sample Test Results

SAMPLE NO.	STATION	OFFSET	DEPTH INTERVAL	AASHTO CLASS	L.L.	P.I.	% BY WEIGHT C.SAND	F.SAND	SILT	CLAY	% PASSING (SIEVES) #10	#40	#200	% MOISTURE	% ORGANIC
S-6	12+00	20' RT	1.00-2.00	A-4(0)	18	NP	17.7	52.7	19.5	10.1	100	96	37		
S-7	12+00	20' RT	2.00-5.20	A-6(7)	29	11	2.6	31.6	33.6	32.2	98	98	78	16.4	
S-8	12+00	20' RT	5.20-6.00	A-2-4(0)	19	NP	1.2	77.7	3.0	18.1	100	100	24		
S-3	19+00	20' LT	1.00-3.80	A-4(0)	20	6	8.0	46.9	20.9	24.1	100	99	59	19.0	
S-4	19+00	20' LT	4.00-4.50	A-4(2)	27	8	5.0	41.2	35.6	18.1	100	98	51	63.8	
S-5	19+00	20' LT	4.50-5.60	A-4(1)	21	8	2.8	50.3	16.7	30.2	100	100	51		

VANE SHEAR TESTS

STATION	OFFSET	DEPTH (ft)	S(psf)	SR(psf)
15+00	70' LT	1.0	213	
15+00	70' LT	3.0	710	
17+00	70' LT	1.0	167	
17+00	70' LT	2.0	167	
17+00	70' LT	3.0	251	
17+00	70' LT	4.0	292	
17+00	70' LT	5.0	209	
17+00	70' LT	6.0	376	
17+00	70' LT	7.0	752	
17+00	70' LT	8.0	919	