SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

BAR SIZE	SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPET, AND BARRIER RAIL		APPROACH SLABS		PARAPET AND BARRIER RAIL
	EPOXY COATED	UNCOATED	EPOXY COATED	UNCOATED	
#13	610	540	610	540	840
#16	770	660	770	660	1050
#19	920	790	1190	790	1330
#22	1580	1060			
#25	2080	1390			

GROOVING BRIDGE FLOORS

APPROACH SLABS	152.3	SQ.METER
BRIDGE DECK	749.9	SQ.METER
TOTAL	902.2	SQ.METER

REINFORCING BAR SCHEDULE

UNIT 1 OR 2 (2 REQ'D)

REINFORCING STEEL

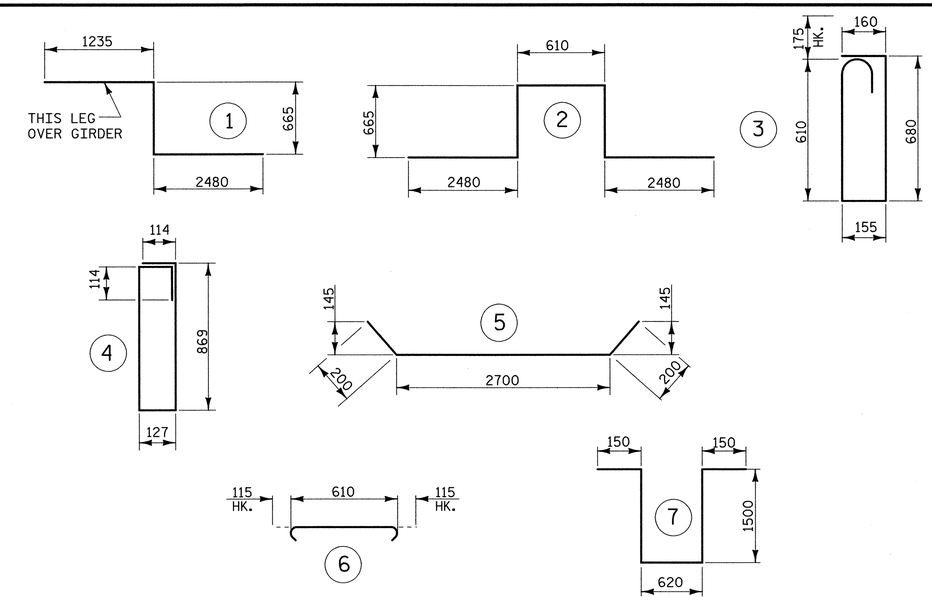
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	480	#16	STR	12280	9149
B1	250	#16	STR	14900	5782
K1	18	#16	5	3100	87
K2	18	#16	STR	2900	81
K3	24	#13	STR	5480	131
K4	60	#13	STR	2780	166
K7	12	#13	STR	2300	27
S1	81	#13	4	2220	179
S2	270	#13	6	840	225
U1	54	#13	7	3920	210
TOTAL REINFORCING STEEL Kg					16037

EPOXY COATED REINF. STEEL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A2 ✱	478	#16	STR	12280	9111
B2 ✱	112	#13	STR	8240	917
B3 ✱	56	#19	STR	17400	2178
B4 ✱	28	#13	STR	7820	218
B5 ✱	108	#19	STR	7800	1883
K5 ✱	8	#25	2	6900	219
K6 ✱	8	#25	1	4380	139
S3 ✱	54	#16	3	1780	149
TOTAL EPOXY COATED REINFORCING STEEL Kg					14814

✱ EPOXY COATED REINFORCING STEEL

BAR TYPES



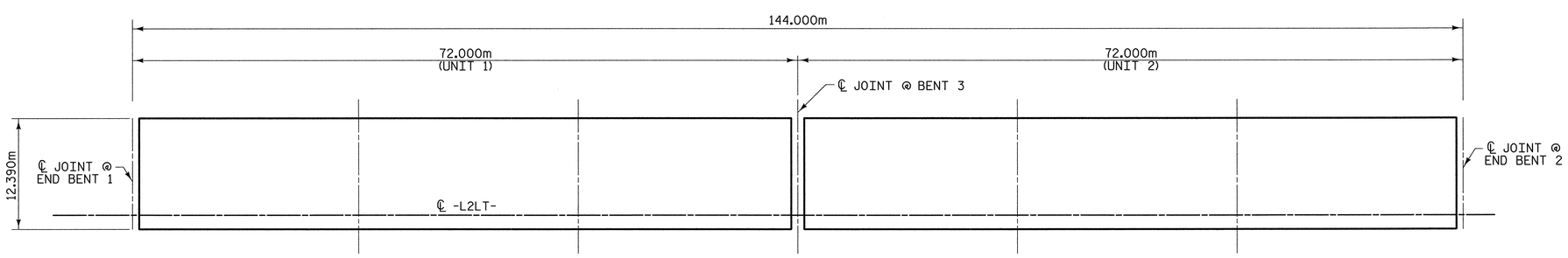
ALL BAR DIMENSIONS ARE OUT TO OUT

SUPERSTRUCTURE BILL OF MATERIAL

UNIT 1 OR 2

	CLASS A-A CONCRETE	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL	
	(CU. METER)	(kg)	(kg)	
POUR 1	73.7			
POUR 2	92.7			
POUR 3	103.9			
TOTAL (EA. UNIT)	270.3	16037	14814	
TOTAL (2 UNITS)✱✱	540.6	32074	29628	

✱✱ QUANTITIES FOR BARRIER RAIL ARE NOT INCLUDED



LAYOUT FOR COMPUTING AREA
OF REINFORCED CONCRETE DECK SLAB
(SQ. METERS = 1784.2)

METRIC

PROJECT NO. R-2552C

JOHNSTON COUNTY

STATION: 109+56.000 -L2LT- POT

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE BILL OF MATERIAL (LEFT LANE)

PLANS PREPARED BY:
MULKEY ENGINEERS & CONSULTANTS
PO Box 33127
RALEIGH, N.C. 27636
(919) 851-1912
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM

NORTH CAROLINA PROFESSIONAL SEAL 14104 ENGINEER ROBERT C. LARSON
2/25/05

REFERENCE NO. BL-20

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-203
1			3			TOTAL SHEETS
2			4			431

DRAWN BY : W. B. ALLEN DATE : 9/04
CHECKED BY : R. C. LARSON DATE : 10/04

02/25/2005 02:19:27 PM G:\project\2004\23\DIR-2552\Structures\Site 1\Left Lane\R2552C_SD_BM_01.dgn