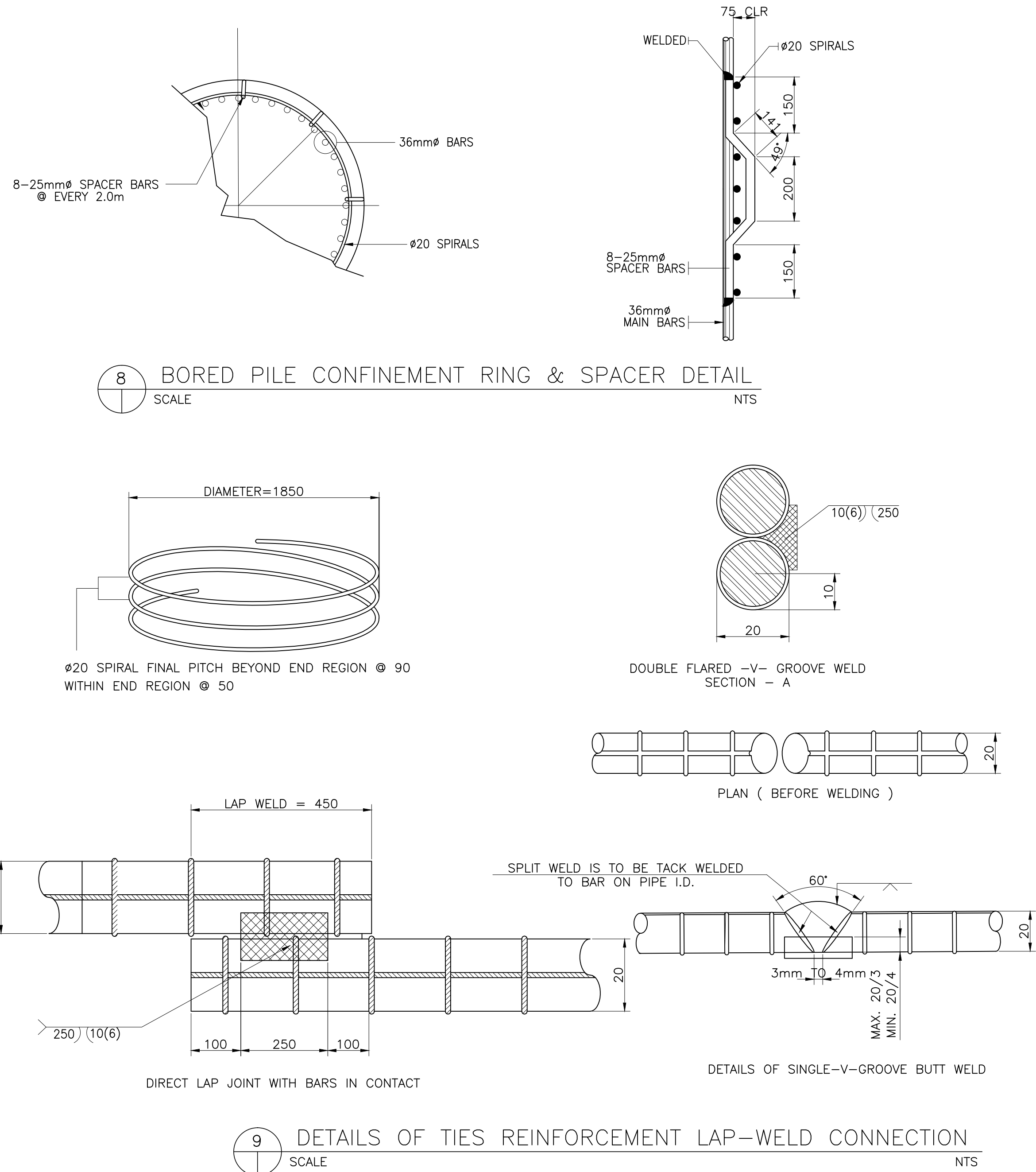
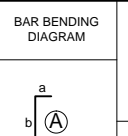
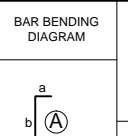


- NOTES:
- THE REINFORCEMENT ARE LAP-WELD CONNECTED (FLARED-V-GROOVE TYPE)
 - SPIRAL REINFORCEMENT ARE LAP WELD CONNECTED. WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS. D1.4-92, STRUCTURAL WELDING CODE REINFORCEMENT STEEL, USE ELECTRODE E90XX-X.
 - CARE SHOULD BE TAKEN NOT TO DAMAGE BORED PILE/COLUMN MAIN BARS DURING WELDING.
 - SPIRAL REINFORCEMENT SHOULD BE BUTT WELDED WHERE SPIRAL PITCH IS 50mm OR LESS. OTHERWISE USE LAP WELD SPLICE.
 - ADDITIONAL STIFFENERS/GUIDE BARS MAY BE PROVIDED TO STABILIZE THE PILE REINFORCEMENT DURING FABRICATION/ERECTION SUBJECT TO THE APPROVAL OF THE ENGINEER.
 - DIRTY CONCRETE (MINIMUM 600mm HEIGHT) SHOULD BE REMOVED PRIOR TO CONSTRUCTION OF BACKWALL AND COPING BEAM.
 - CONCRETE - CONCRETE SHALL CONFORM TO THE REQUIREMENT OF CLASS AA CONCRETE WITH 28MPa. CYLINDER STRENGTH AND 19mm MAXIMUM AGGREGATE SIZE.
 - REINFORCEMENT - ALL REINFORCEMENT STEEL SHALL BE DEFORMED BAR CONFORMING TO AASHTO M31 (ASTM 315) GRADE 60. SPLICES OF ADJACENT LONGITUDINAL STEEL SHALL BE STAGGERED 100 BAR DIAMETER APART, LENGTH OF SPLICES SHALL BE 2200mm.
 - THE STABILIZATION FOR BORED PILE EXCAVATION (SUCH AS USING BENTONITE SLURRY OR TEMPORARY STEEL CASING ETC.) SHALL BE CONSIDERED BY THE CONTRACTOR AND THE COST IS SUBSIDIARY IN PAY ITEM 400(17). THE CONTRACTOR SHALL SUBMIT THE CONSTRUCTION METHOD FOR ENGINEERS APPROVAL BEFORE CONSTRUCTION.



SCHEDULE OF REINFORCEMENT FOR PIER 13 BORED PILE

BAR BENDING DIAGRAM	BAR MARK	SIZE (mm)	SPACING (mm)	QTY	BAR SHAPE	BAR DIMENSION					LOCATION	BAR LENGTH (m)	TOTAL LENGTH (m)	UNIT WEIGHT (kg./m.)	TOTAL WEIGHT (kg.)	VOLUME CONCRETE (cu.m.)
						ALL DIMENSIONS ARE OUT TO OUT OF BARS										
						a	b	c	d	e						
	FOR ONE (1) BORED PILE (L=20m, Ø2000mm)															
	BP1	36	AS SHOWN	32	A	0.50	7.5	—	—	—	BORED PILE	8.0	256.00	7.991	2.48	62.83
	BP1'	36	AS SHOWN	32	B	9.36	—	—	—	—		9.36	299.52	7.991	2395	
	BP1"	36	AS SHOWN	32	B	6.5	—	—	—	—		6.5	208.00	7.991	1663	
	BP2	20	80	42	D	0.20	6.3	—	—	—		6.5	273.00	2.468	674	
	BP3	20	100	167	D	0.20	6.3	—	—	—		6.5	1085.50	2.468	2679	
	BP4	25	AS SHOWN	80	C	0.15	0.141	0.20	0.141	0.15		0.782	62.56	3.854	241	
												TOTAL		9700 Kgs		62.83 cu.m

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF RA 9184, APPROVED BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGNS UNDERTAKEN BY THE CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGNS NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITIES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANT.

ENGR. ALBERTO C. CANETE
TEAM LEADER

CONSULTANTS		SUBMITTED BY		DESIGNED BY		CHECKED BY		APPROVED BY		REVISIONS		DATE		PROJECT TITLE		SCALE		DRAWING STATUS	
										A				DETAILED ENGINEERING DESIGN OF THE PROPOSED AIRPORT-NCC ACCESS ROAD, MACARTHUR-NCC ACCESS ROAD, MACARTHUR-SCITEX ACCESS ROAD & OLYMPIC VILLAGE ACCESS ROAD		AS SHOWN		DRAFT DRAWING	
100 CORPORATE BLDG., 8 LANDS STREET, WISRA, DALAMAN, QUEZON CITY, 1128		EFREN L. DAVID PRESIDENT - UICI		ALBERTO C. CANETE, P.P., F.ASEP PROJECT MANAGER - UICI		RYAN PAUL S. GALURA PROJECT MANAGER		JOVITO M. SUNGA OIC - PMD		B				SHEET CONTENT AIRPORT TO NCC (STA.0+000 - STA.1+500) - SACOBIA		PROJECT CODE		DRAWING NO. P2SB-67	
		DATE: -		DATE: -		DATE: -		DATE: -		C				PIER 13 BORED PILE DETAILS		DATE APPROVED		DATE REVISED	
										D									
										E									
										F									