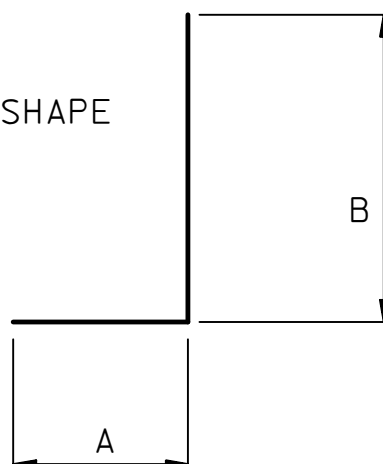
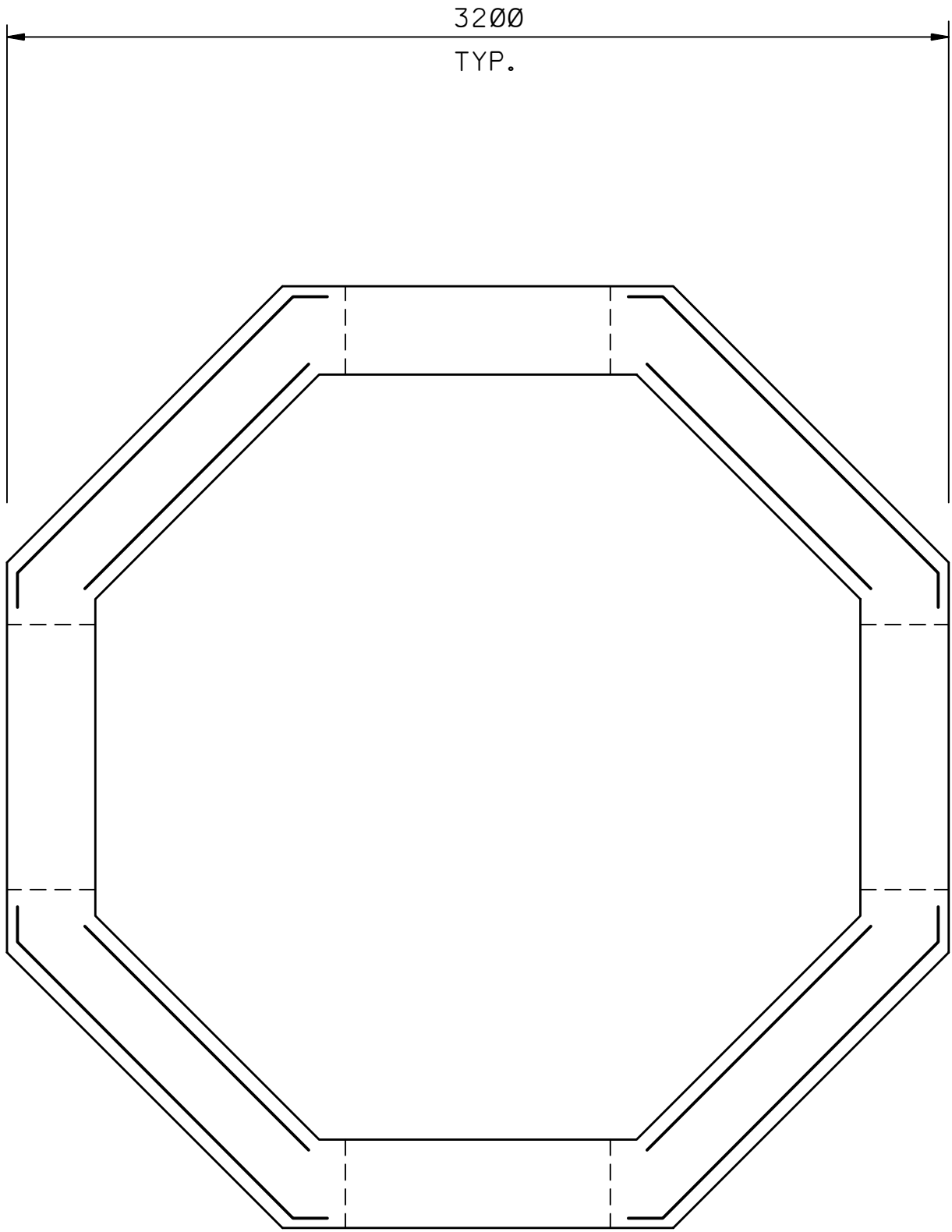


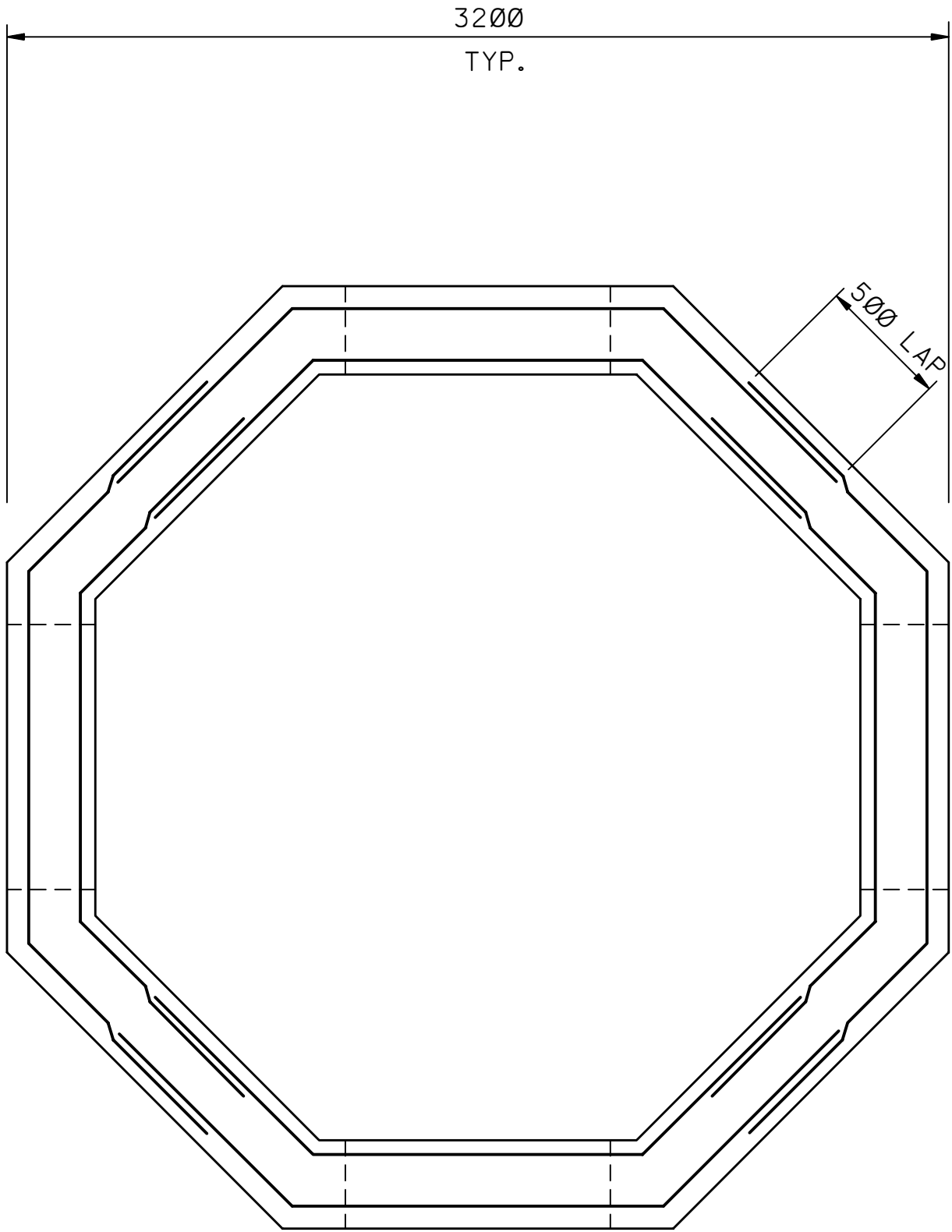
10	002	0025	AA-036025	P	990
REV. NO.	SHT. NO.	DRAWING NUMBER	INDEX	PLANT NO.	INDEX

REINFORCEMENT BAR LIST							CONCRETE QUANTITIES																																	
FOUR WAY		MARK NO.	LOCATION	SIZE MM	SHAPE	LENGTH MM	MANHOLE	LOCATION	CONCRETE CU. M.	SLUMP TEST MM	CEMENT BBL	SAND CU. M.	AGGREGATE CU. M.																											
QTY.	WT.(KG)																																							
4	10.9	1	FLOOR	12	STR	3200																																		
4	10.9	2	FLOOR	12	STR	3200																																		
4	10.1	3	FLOOR	12	STR	2950																																		
4	8.4	4	FLOOR	12	STR	2450																																		
4	6.7	5	FLOOR	12	STR	1950																																		
4	4.6	6	FLOOR	12	STR	1350																																		
8	23.4	7	WALL	16	TYPE A	A= 725 B= 1200	MISCELLANEOUS MATERIALS																																	
16	50.5	8	WALL	16	TYPE A	A= 875 B= 1200																																		
16	46.8	9	WALL	16	TYPE A	A= 725 B= 1200	QUANTITY	ITEM	DESCRIPTION			MTL. INDEX ITEM NO.																												
16	50.5	10	WALL	16	TYPE A	A= 875 B= 1200	1	41	COVER: MANHOLE; HEAVY DUTY 806MM DIAMETER			M3-2																												
8	23.4	11	WALL	16	TYPE A	A= 725 B= 1200	1	42	FRAME: MANHOLE COVER; HEAVY DUTY 762MM IA.			M3-1																												
16	27.8	12	FLR. & ROOF	12	TYPE B1	2040	175	43	BRICK: CLAY; HARD BURNED																															
16	32.5	13	FLR. & ROOF	12	TYPE B2	2380	8	44	EYE: PULLING; GALVANIZED			N1-1																												
16	36.8	14	FLR. & ROOF	12	TYPE B3	2700	1	45	COVER: SUMP; CAST IRON; FOR 254MM CROCK; 318MM HOLES; NORMAN; BOOSEY NO. 240.			N2-1																												
8	30.8	15	WALL	16	TYPE A	A=725 B=1810	1	46	PIPE: TILE; STD. 254MM SEWER B AND 3																															
16	65.3	16	WALL	16	TYPE A	A=875 B=1610	4	47	PLATE: GROUND			G1-4																												
16	61.7	17	WALL	16	TYPE A	A=725 B=1810	17M	48	CABLE: NO. 1/0; 7 STRAND COPPER BARE			W2-5																												
16	65.3	18	WALL	16	TYPE A	A=875 B=1810	4	49	ROD: GROUND; COPPERWELD 16MMx2440MM			G1-1																												
8	61.7	19	WALL	16	TYPE A	A=725 B=1810	4	50	COUPLER: 16MM GROUND ROD			G1-2																												
8	4.9	20	FLOOR	12	STR	720	10 M	51	150 WIDE DUMBELL TYPE RUBBER WATERSTOP																															
4	28.9	21	ROOF	20	STR	3050	BARS SHALL CONFORM TO SAES-Q-001 AND 09-SAMSS-106 FOR CONCRETE REINFORCEMENT. EACH BAR SHALL BE OF THE FULL LENGTH SPECIFIED WITH NO SPLICE.																																	
4	26.6	22	ROOF	20	STR	2810																																		
4	24.4	23	ROOF	20	STR	2570																																		
4	22.1	24	ROOF	20	STR	2330																																		
4	19.8	25	ROOF	20	STR	2090																																		
4	17.5	26	ROOF	20	STR	1850																																		
4	15.3	27	ROOF	20	STR	1610																																		
8	7.0	28	ROOF	12	STR	1020																																		
8	8.5	29	ROOF	12	STR	1245																																		
8	7.4	30	ROOF	12	STR	1080																																		
8	21.7	31	ROOF	20	STR	1145																																		
44	106.8	32	WALL	12	TYPE A	A=500 B=2350																																		
80	188.1	33	WALL	12	TYPE B5	2760	TYPE A BENT BAR SHAPE																																	
80	210.3	34	WALL	12	TYPE B6	3085																																		
16	41.5	35	FLR. & ROOF	12	TYPE B4	3040																																		
1378.9		TOTAL WEIGHT																																						
							TYPE B																																	
																																								
							<table><tr><th>TYPE</th><th>A</th><th>B</th><th>C</th></tr><tr><td>B1</td><td>635</td><td>770</td><td>635</td></tr><tr><td>B2</td><td>720</td><td>940</td><td>720</td></tr><tr><td>B3</td><td>800</td><td>1100</td><td>800</td></tr><tr><td>B4</td><td>885</td><td>1270</td><td>885</td></tr><tr><td>B5</td><td>820</td><td>1120</td><td>820</td></tr><tr><td>B6</td><td>900</td><td>1285</td><td>900</td></tr></table>						TYPE	A	B	C	B1	635	770	635	B2	720	940	720	B3	800	1100	800	B4	885	1270	885	B5	820	1120	820	B6	900	1285	900
TYPE	A	B	C																																					
B1	635	770	635																																					
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TYPICAL HORIZONTAL REINFORCING
(BETWEEN DUCT OPENINGS)

SCALE 1:20



TYPICAL HORIZONTAL REINFORCING
(ABOVE & BELOW DUCT OPENINGS)

SCALE 1:20

NOTES:
I. FOR NOTES SEE SHEET 001.

DRAWING RESPONSIBILITY :
ELECTRICAL STANDARDS COMMITTEE

Ø1 DEC96 RCR REVISED & REDRAWN ON TWO "A"-SIZE SHEETS.

REV. NO. DATE BY JO/EWO DESCRIPTION CHKD. CERT. APPD.

SAUDI ARABIAN OIL COMPANY

DRAWN BY RIC CHECKED BY BGH SCALE: AS SHOWN

DATE STARTED 8/10/96 DATE COMPLETED 10-12-96

OPR'G. DEPT. ENG. DEPT. R. GOELAH, AL-HAMADAN

APP'D. FOR CONST.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED BY CERTIFIED C. BOATENG, SR. PROJ. ENGINEER

FOUR-WAY MANHOLE (ELECTRICAL)
REINFORCEMENT BAR LIST

STD. DWG. METRIC

PLANT NO. INDEX DRAWING NUMBER SHT. NO. REV. NO.

990 P AA-036025 002 01