

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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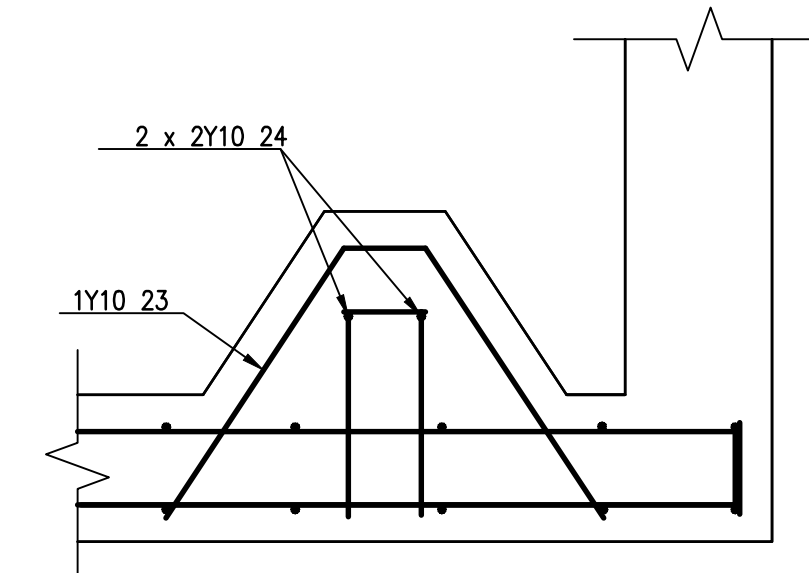
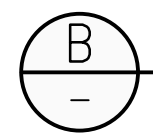
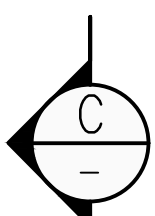
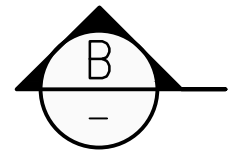
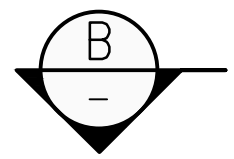
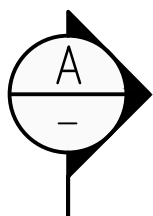
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N

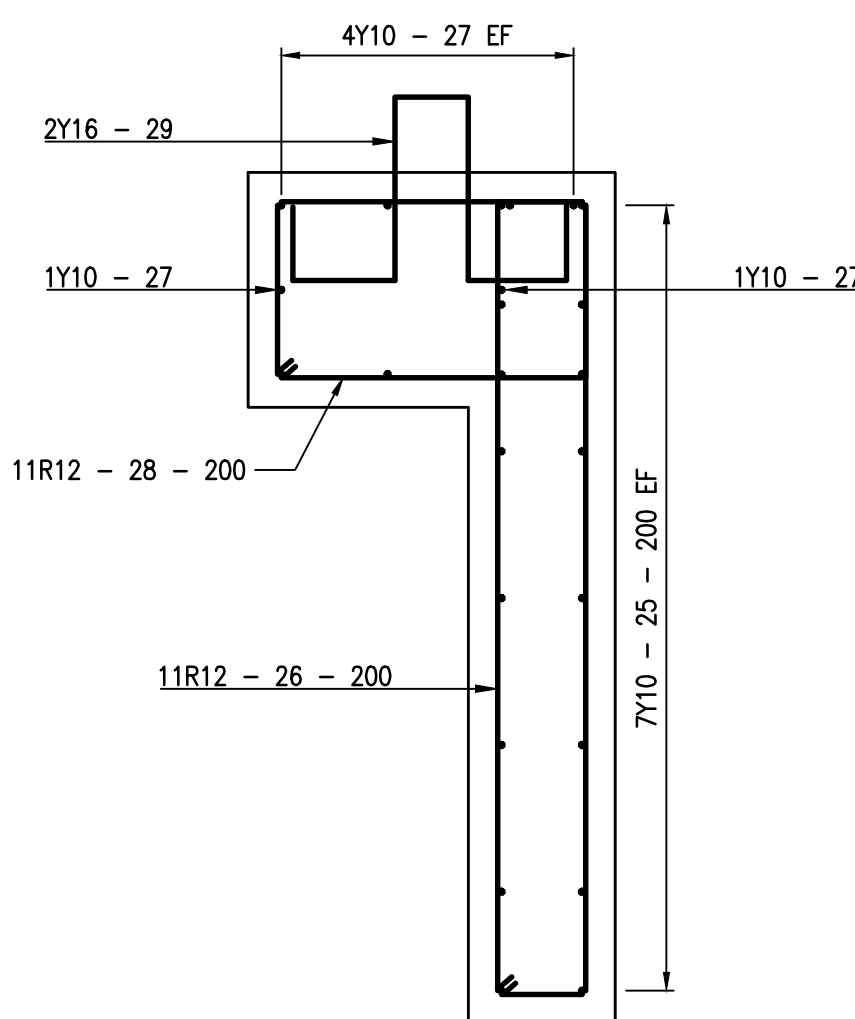
P

Q

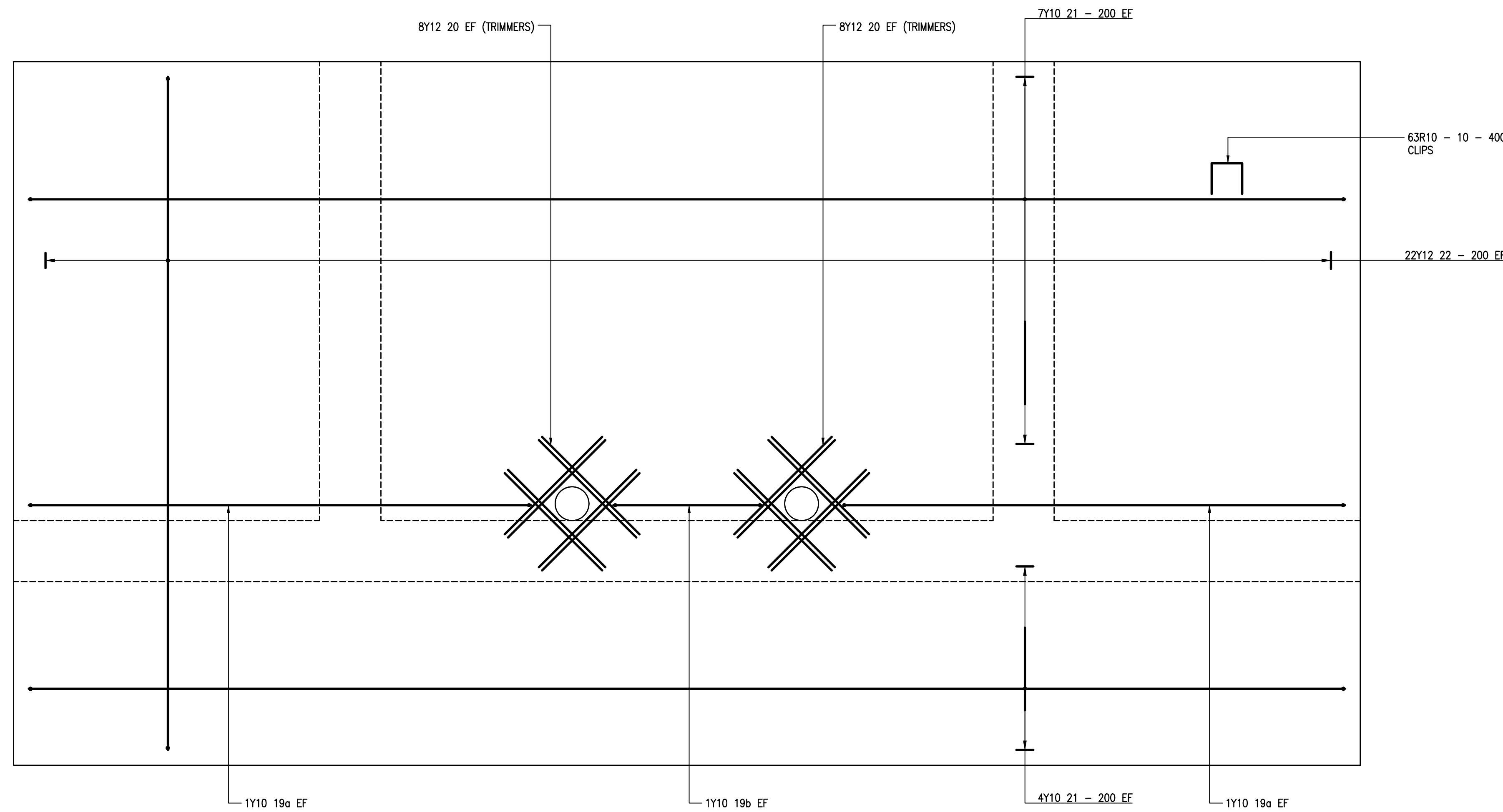
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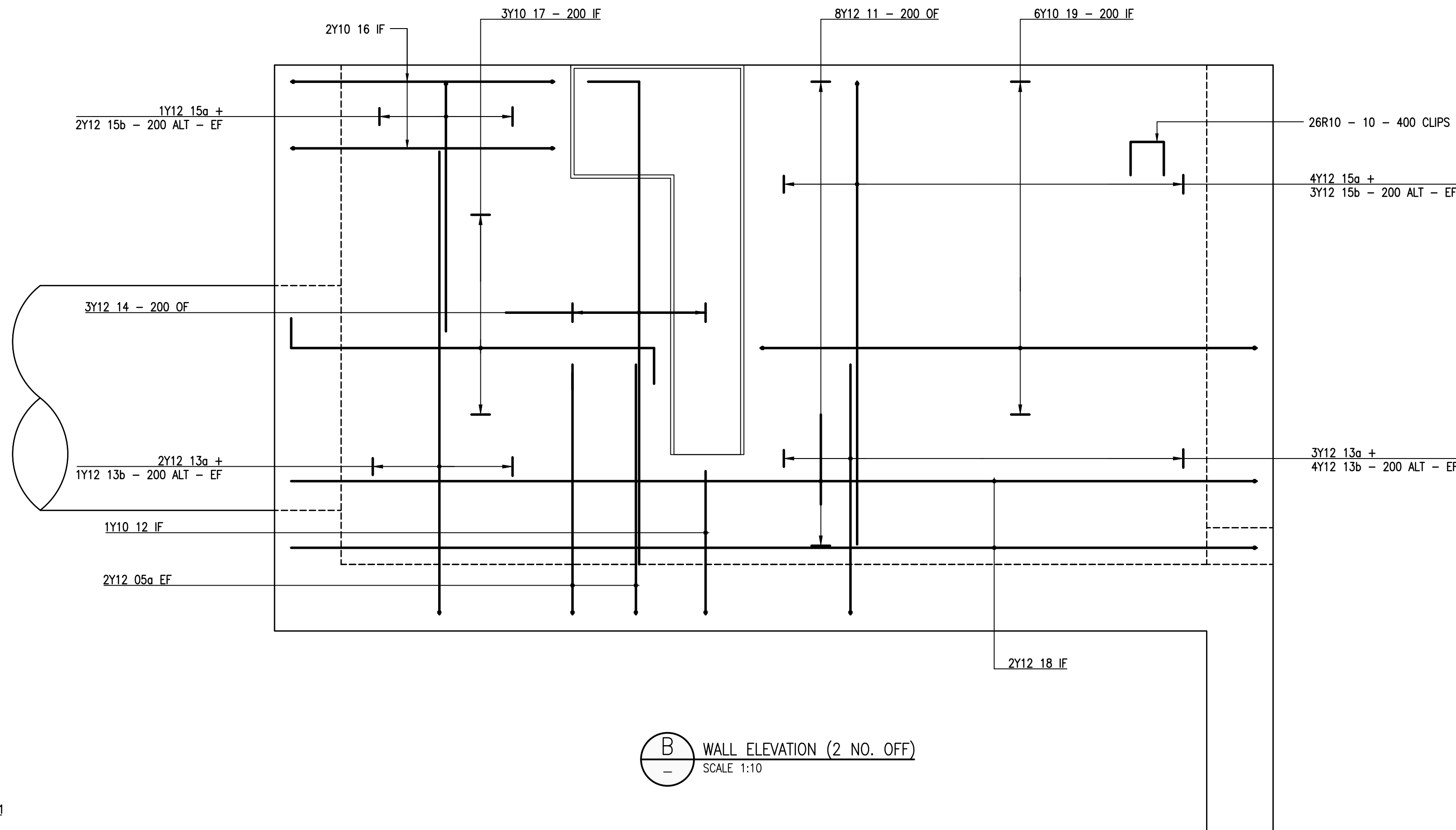
STEP DETAIL (2 NO. OFF)
SCALE 1: 10



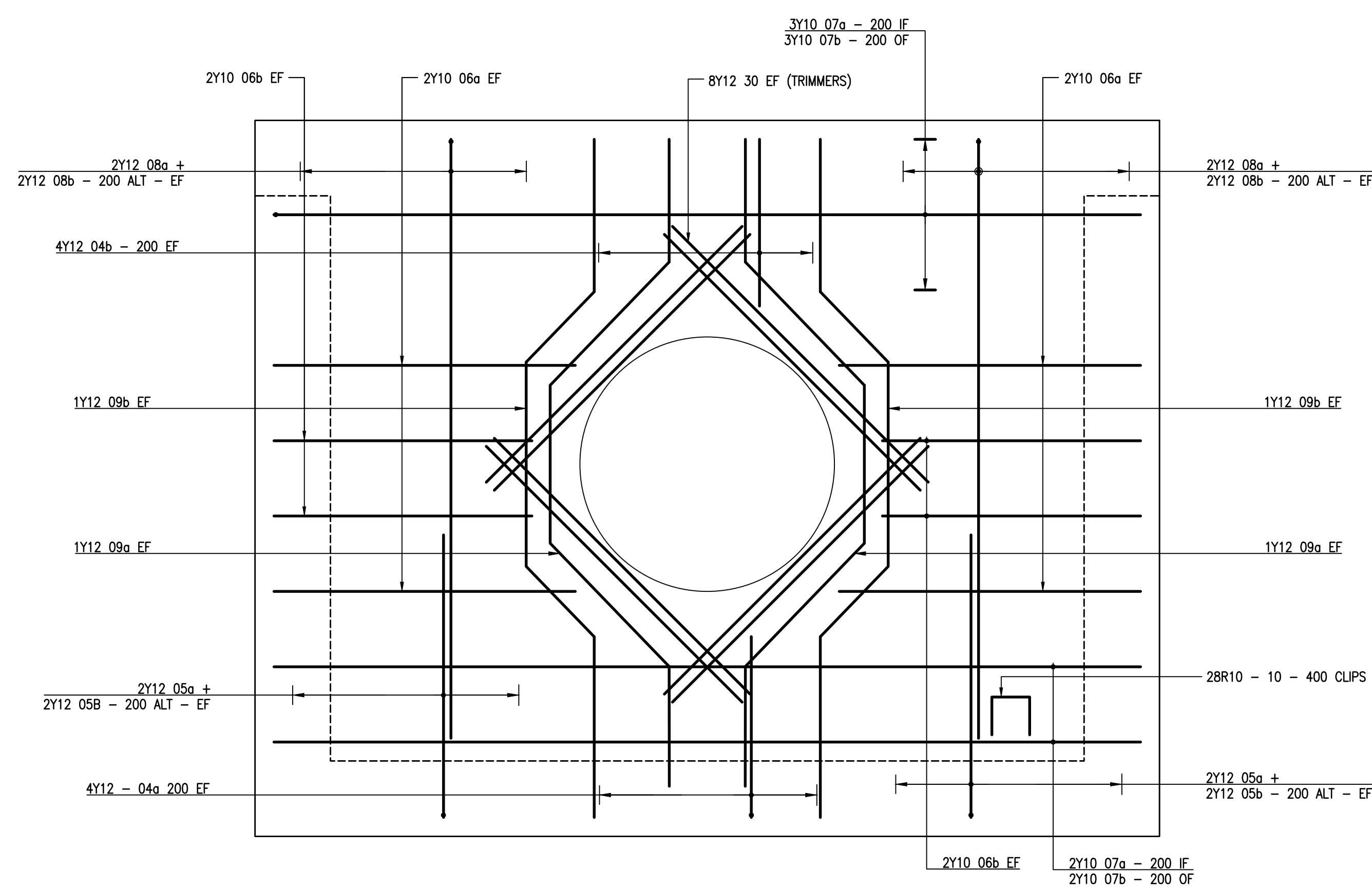
PRE-CAST BEAM DETAIL (40MPa CONCRETE COVER = 40MM)
SCALE 1: 10



PLAN ON DECANT ENERGY DISSIPATOR
SCALE 1:10



WALL ELEVATION (2 NO. OFF)
SCALE 1:10



WALL ELEVATION
SCALE 1:10

MEMBER	MARK	TYPE AND SIZE	NO. OF MEMBERS	NO. REPT. PER MEMBER	TOTAL	LENGTH (MM)	NO. W. JOINTS	A	B	C	D	E/R
WALL A	01	Y12	1	26	26	2450	38	125	2265	(120)	-	-
	02	Y12	1	30	30	3100	38	135	2890	(135)	-	-
	03	R10	1	20	20	900	83	310	125	210	(210)	-
	04a	Y12	1	8	8	850	37	(400)	480	-	-	-
	04b	Y12	1	8	8	500	37	(100)	430	-	-	-
	05a	Y12	1	8	8	1200	37	480	(750)	-	-	-
	05b	Y12	1	8	8	2000	37	(450)	1580	-	-	-
	06a	Y10	1	8	8	1500	38	650	800	(100)	-	-
	06b	Y10	1	8	8	1400	38	650	680	(120)	-	-
	07a	Y10	1	10	10	3000	38	500	2060	490	-	-
WALL B	07b	Y10	1	10	10	3200	38	480	2270	(500)	-	-
	08a	Y12	1	8	8	850	37	100	(780)	-	-	-
	08b	Y12	1	8	8	1650	37	(100)	1580	-	-	-
	09a	Y12	1	4	4	1950	43	320	455	420	315	(300)
	09b	Y12	1	4	4	1950	43	405	260	540	180	(485)
	10	R10	1	54	54	250	38	100	90	(100)	-	-
	11	Y12	2	8	20	3150	37	(300)	2880	-	-	-
	12	Y10	2	1	2	800	37	400	(425)	-	-	-
	13a	Y12	2	10	20	1150	37	400	(780)	-	-	-
	13b	Y12	2	10	20	1750	37	(400)	1380	-	-	-
WALL C	14	Y12	2	3	6	1550	37	(150)	1430	-	-	-
	15a	Y12	2	10	20	850	37	100	(780)	-	-	-
	15b	Y12	2	10	20	1450	37	(100)	1380	-	-	-
	16	Y10	2	2	4	1350	36	370	100	780	130	(480)
	17	Y10	2	3	6	1300	38	135	1080	(135)	-	-
	18	Y10	2	6	12	2050	52	100	1480	100	(415)	-
	05a	Y12	2	4	8	1200	37	480	(750)	-	-	-
	19a	Y10	1	4	4	1780	38	100	1630	(100)	-	-
	19b	Y10	1	2	2	650	38	110	480	(110)	-	-
	20	Y12	1	32	32	450	20	450	-	-	-	-
STEP	21	Y10	1	8	22	4450	38	100	4290	(110)	-	-
	22	Y12	1	44	44	2350	38	110	2190	(110)	-	-
	23	Y10	2	1	2	1400	43	205	440	110	380	(205)
	24	Y10	2	4	8	750	38	350	80	(360)	-	-
	25	Y10	1	14	14	2400	38	200	2050	(200)	-	-
	26	R12	1	11	11	2488	60	110	1070	-	-	-
	27	Y10	1	10	10	2300	38	150	2050	(150)	-	-
	28	R12	1	11	11	1408	60	230	410	-	-	-
	29	Y16	1	2	2	950	53	255	250	100	250	(255)
	30	Y12	1	16	16	950	20	950	-	-	-	-

HIGH TENSILE STEEL							
DIAMETER	8mm	10mm	12mm	16mm	20mm	25mm	32mm
TOTAL LENGTH FOR SHEET	m	-	279.92	535.00	1.90	-	-
MASS FOR SHEET	kg	-	172.71	475.08	3.00	-	-
TOTAL MASS FOR SHEET	kg	-	-	-	650.8	-	-

MILD STEEL							
DIAMETER	8mm	10mm	12mm	16mm	20mm	25mm	32mm
TOTAL LENGTH FOR SHEET	m	-	31.50	42.86	-	-	-
MASS FOR SHEET	kg	-	19.44	38.06	-	-	-
TOTAL MASS FOR SHEET	kg	-	-	-	57.5	-	-

NOTES:

- MINIMUM LAP LENGTH TO BE : 45 x SMALLER BAR DIAMETER UNLESS OTHERWISE NOTED.
- DETAILING AND ABBREVIATIONS IN ACCORDANCE WITH SANS 10144
- REINFORCEMENT TO SABS 920 (1985 AND SABS 1024 (1991)
 - HOT ROLLED HIGH YIELD STRESS STEEL DEFORMED (Y BARS)
 - WITH 450 MPa YIELD STRESS
- FOR STEEL SPECIFICATIONS AND BENDING DETAILS REFER TO BENDING SCHEDULE.
- ABBREVIATIONS:
 - B1 = LOWER BOTTOM STEEL
 - B2 = UPPER BOTTOM STEEL
 - T1 = UPPER TOP STEEL
 - T2 = LOWER TOP STEEL
 - ABR = ALTERNATING BAR REVERSED
 - ALT = ALTERNATING
 - OF = OUTSIDE FACE
 - F = INSIDE FACE
 - EF = EACH FACE

DISCLAIMER

This drawing was prepared by Knight Piesold Consulting (Pty) Ltd based on the best information available at the time of preparation. During construction site conditions, or site conditions, or site development, may possibly dictate that amendments or adaptations be made to certain details on the drawing. Strict compliance with the project specifications is also essential. Knight Piesold Consulting (Pty) Ltd will therefore not accept liability for any losses, damages or consequential losses, suffered by any party resulting from the use or implementation of the contents of this drawing, if executed or amended without fulltime supervision by Knight Piesold Consulting (Pty) Ltd.

1. 20.04.2019 ISSUED FOR CONSTRUCTION										MMK1	TM	JRM								
D.O.	REV	DATE	REVISION			REV	CHKD	APP	AUTH	KKS	REFERENCE DRAWINGS									
AUTHORISED FOR ESKOM BY:										CLASSIFICATION			PERS PATH							
COORDINATION BY:										PERS PATH			MATIMBA POWER STATION							
APPROVED BY:										PERS PATH			MATIMBA ASH DUMP							
APPROVED BY:										PERS PATH			PHASE 1 (4 YEARS LINED AREA)							
APPROVED BY:										PERS PATH			DECANT OUTLET STRUCTURE							
APPROVED BY:										PERS PATH			REINFORCEMENT DETAILS							
CHECKED BY:										PERS PATH			ESKOM 704262							
CREATED BY:										PERS PATH			301-00825/01-168							
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