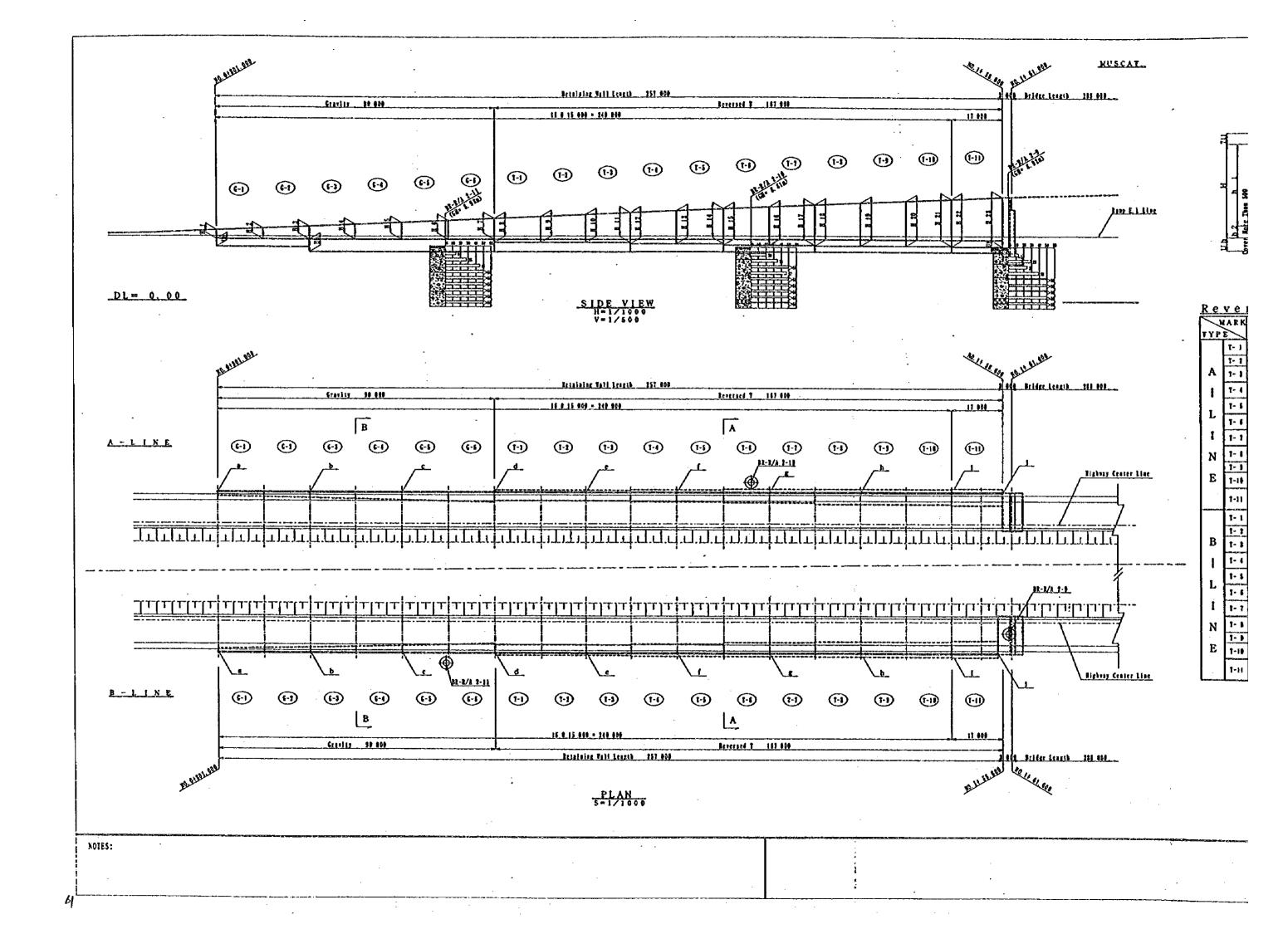
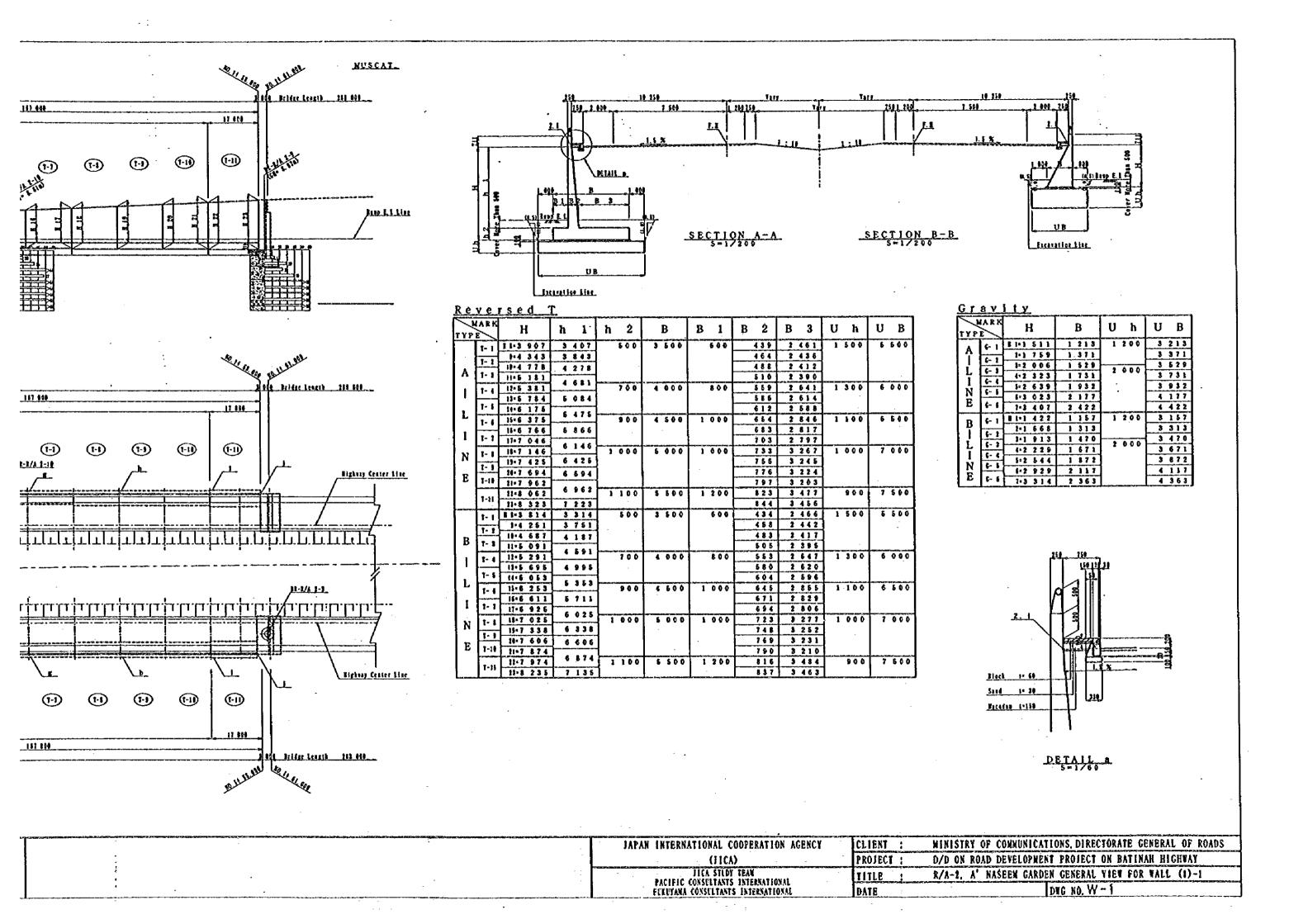
## STRUCTURE -RETAINING WALL

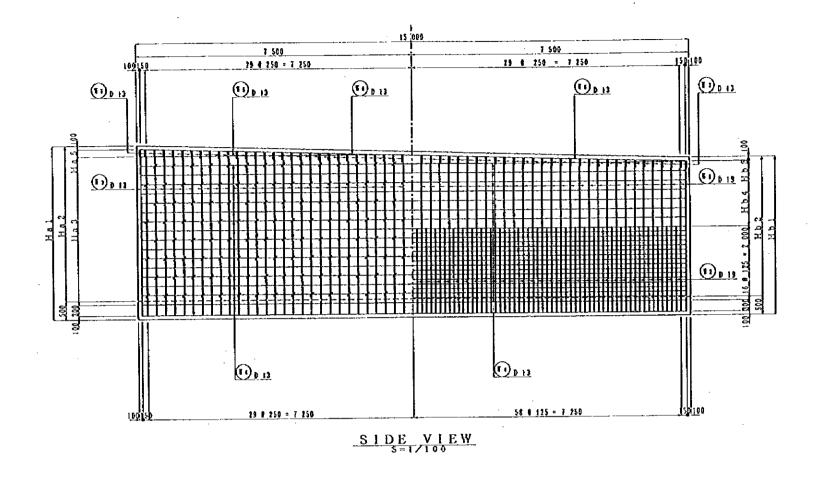


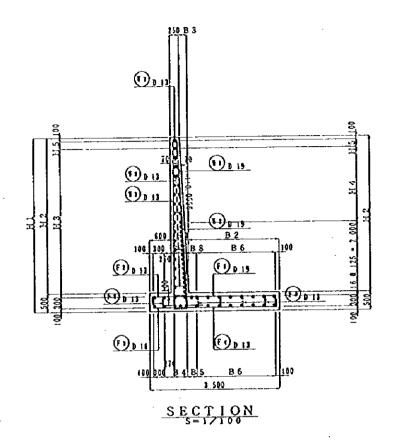


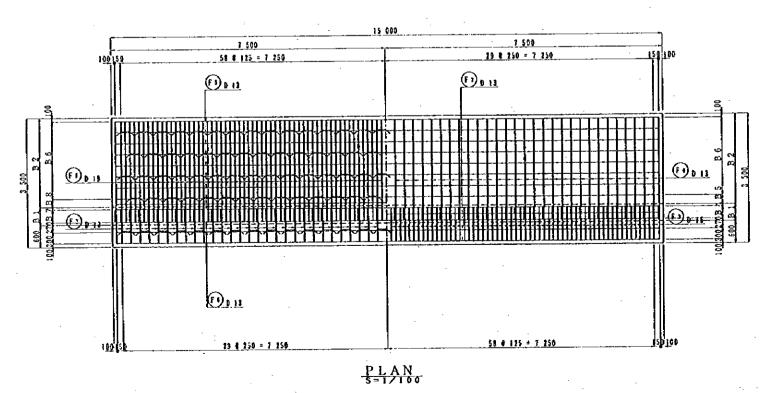
	oin	ı	а	b	с	d	e	f	. в	ħ	i	j
<u> </u>	A   ;	<del>.  </del>	+2619984.47762	+2619994.70843	+2620004.93924	+2620015.14954	+2620025.26163	+2620035.26786	+2620045. 16810	+2620054.96221	+2620064.65005	+2620071.04951
ł	į F	ε										+ 805166.05099
	N T	z	11. 215	11.710	12.343	13.111	13.982	14.788	15.570	16.129	- 16,666	16.973
H	8 :	, l	+2619950.01308	+2619959.39919	+2619968.67824	+2619977.85011	+2619986. 91466	+2619995.87177	+ 2 6 2 0 0 0 4 . 7 4 2 5 0	+2620013.68729	+ 2 6 2 0 0 2 2 . 7 3 9 2 6	+2620028.83339
	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	E										+ 805180.21965
	ķ	2	11. 214	11.705	12.336	13.106	13.979	14.787	15.503	16.130	16,666	. 16.973

IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)







JAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

DICA STUDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL
FURLYAMA COSSULTANTS INTERNATIONAL
DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

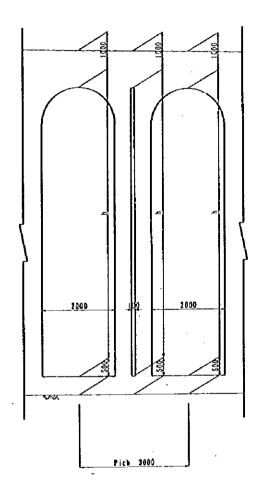
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHTAY

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (1)

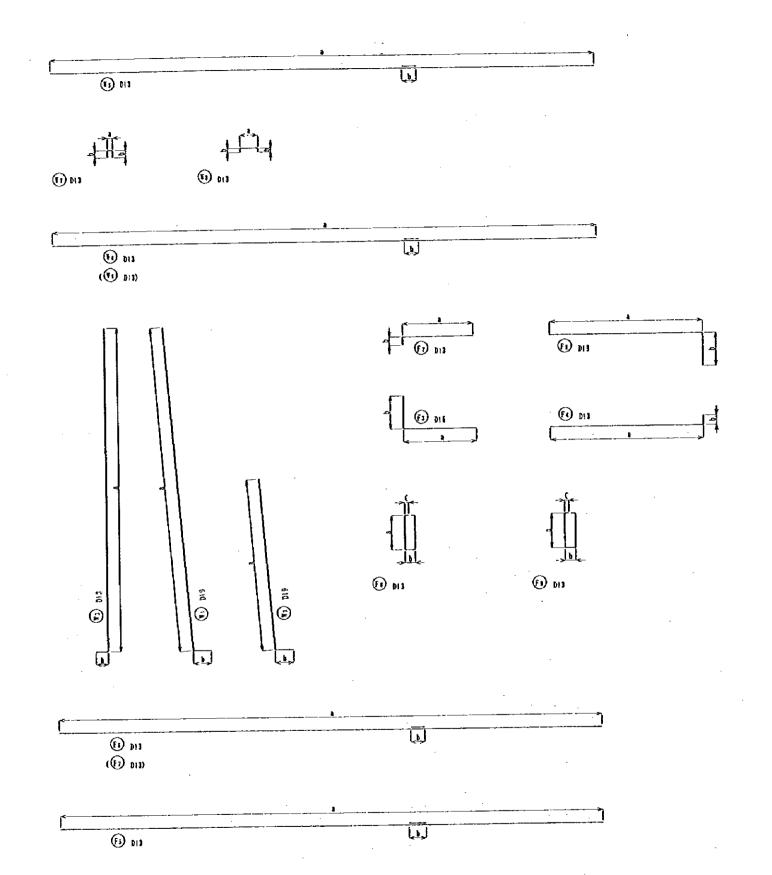
DATE

DATE

	Ι	<u>(T</u> -	1)			(T-	2)			Ţ-	3)	
		a - a		b - b		a - a		b - b		a - a		b - b
	lia l	3 9 0 7	ньі	4 3 4 3	Hal	4 3 4 3	11 b 1	4 7 7 8	lia l	4 7 7 8	Нь 1	5 1 8 1
	Ha2	3 4 0 7	H b 2	3 8 4 3	Ha 2	3 8 4 3	Hb2	4 2 7 8	Ha2	4 2 7 8	НЬ2	4 6 8 1
Α	НаЗ	130250	Нь 3	150250 = 3 750	Ha3	150250 = 3750	H b 3	179250	Ha3	170250 = 4 250	нь з	189250 = 4 500
L	H a 4	5 @ 2 5 0 = 1 2 5 0	Hb 4	7@250 = 1 750	Ha4	7 0 2 5 0 = 1 7 5 0	Н Б 4	9 @ 2 5 0 == 2 2 5 0	Ha4	9 0 2 5 0 = 2 2 5 0	ПЪ 4	100250 = $2500$
,	11 a 5	157	Нь5	9 3	Ha S	9,3	Нь5	2 8	Ha5	2 8	H b 5	181
L	Ba1	4 3 9	B b 1	4 6 3	8 a 1	4 5 3	B b 1	488	Ba)	488	B b 1	510
l	Ba2	2 4 6 1	вь 2	2 4 3 7	8 a 2	2 4 3 7	B b 2	2 4 1 2	Ba2	2 4 1 2	В b 2	2 3 9 0
N.	ВаЗ	189	B b 3	2 1 4	Ba3	214	Въз	2 3 8	B & 3	238	В b 3	260
E	B a 4	20160.5	B b 4	20172. 5 = 345	Ва4	20172.5 = 345	В Ъ 4	$\begin{array}{c} 20184.5 \\ = 369 \end{array}$	B a 4	20184.5 = 369	B b 4	20196 = 392
-	B a 5	29154.5 = 309	В Б 5	20142.5	Ва5	285	B b 5	261	B a 5	261	В Б 5	2 3 8
	B a 6	79300	B b 6	70300	Ваб	7 9 3 0 0 = 2 1 0 0	Вьб	70300 = 2100	Ba6	70300 = 2100	B b 6	76300 = 2100
	B a 7	304	867	3 2 9	Ba7	3 2 9	B b 7	3 5 3	Ва7	353	867	375
	B a 8	20163 = 326	B b 8	2 @ 1 5 0 . 5 = 3 0 1	B a 8	20150.5 $= 301$	Въ 8	2@138.5 = 277	Ba8	277	B b 8	255
		Ţ	-1)		(7-2)				(1-3)			
		a - a		b - b		a a		b b		a - a		b - p
	li a 1	3 8 1 4	Hb i	4 2 5 1	Hal	4 2 5 1	Hb1	4 6 8 7	Ha 1	4 687	H b 1	5 0 9 1
	H a 2	3 3 1 4	11 b 2	3 7 5 1	Ha 2	3 7 5 1	Hb2	4 187	Ha 2	4 187	Hb2	180250
B	Ha 3	130250	H b 3	140250 = 3500	НаЗ	140250	Hb3	160250	Ha 3	= 4 000 80250	нь з	= 4 500 100250
	11 a 4	50250 = 1250	Н Б 4	6@250 = 1500	Ha4	50250 = 1 500	H b 4	80250 = 2000	Ha4	= 2 000	H b 4	= 2 500
L	11 a 5	6.4	Нь 5	251	На5	251	Н Ъ 5	187	Ha5	187	нь 5	91
	Bal	434	вы	458	8 8 1	458	Вьі	483	8 a 1	483	Въі	505
'.	Baz	2 4 6 6	В Б 2	2 4 4 2	Ba2	2 4 4 2	B b 2	2 4 1 7	Ba2	2 4 1 7	В Ъ 2	2 3 9 5
N	B a 3	184	въз	. 208	ВаЗ	208	Вьз	233	ВаЗ	233	вьз	255
E	B a 4	20158	В Ъ 4	20170	8 a 4	20170 = 340	B b 4	= 364	Ba4	= 354	B b 4	= 387
1	B a 5	20157	B b 5	= 790	8 a 5	290 70300	8 b 5	266 79300	Ba5	2 5 6 7 Ø 3 0 0	B b 5	79300
	B a 6	70300	B b 6	7 @ 3 0 0 = 2 1 0 0	Ваб	= 2 100	B b 6	= 2 1 0 0	Ba6	= 2 100	B b 6	= 2 100
	Ba7	299	вь?	323	Ba7	20152 5	B b 7	348	Ba7	348	В Б 7	370
l l	Ba8	20165.5	Вьв	= 307	Ва8	= 307	B b 8	= 282	Ba8	282	Bb8	260



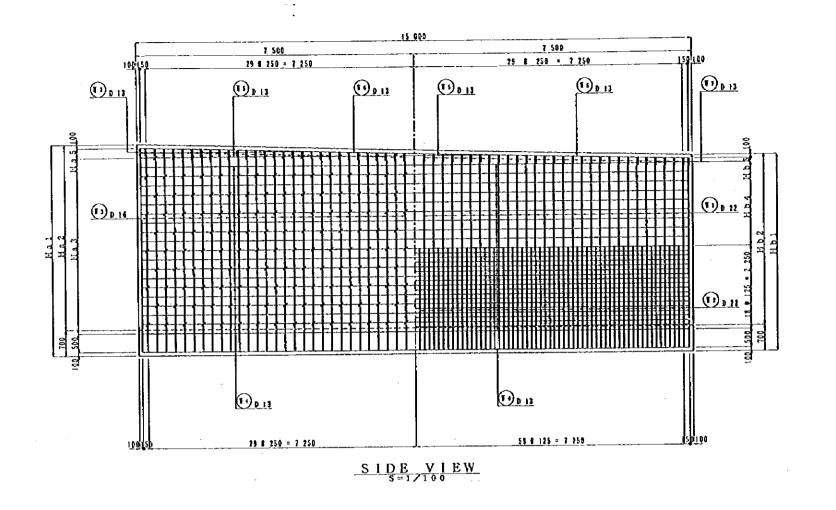
Slit Shape in Front of Pall (Thickness t=30 mm)

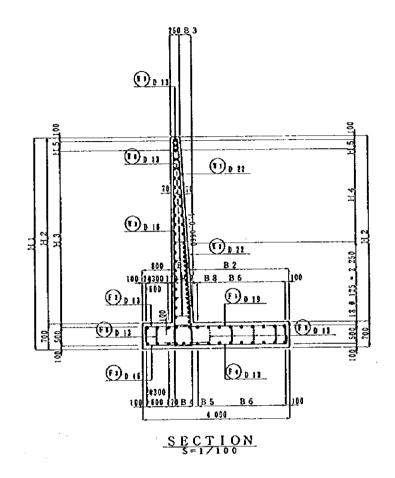


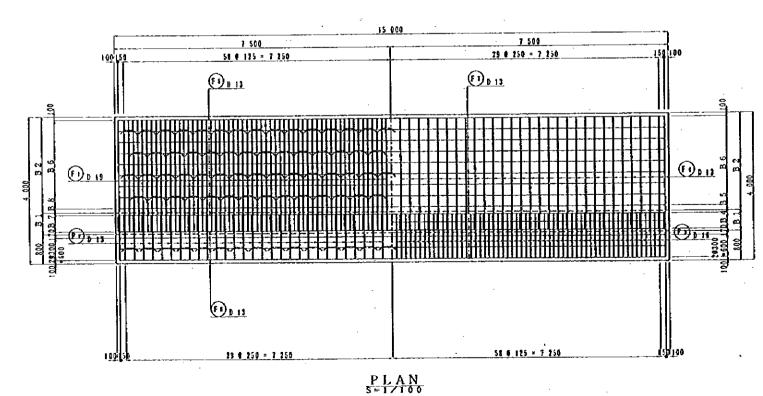
E i N	\$ (41)	LENGTH (as)	1		C C
1					
	9 15	1 220	4 150~3 713	285	
2	•	2 59à	2 304	285	
- 1	D 13	4 129	4 143~3 707	195	
7		15 190	14 BOQ	390	
\$	-,	7 500	3 200-11 BOO		L. <u> —</u>
-	•	Į\$ 200	14 806	399	
7	•	500	110	195	
	٠,	490	344~178	HI	
1	D 19	3 250	2 971	306	
	D 13	1 100	899	155	
3	D 16	1 350	1 050	300	
-	D 13	1 930	2 730	195	
5		15 190	14 800	390	
-	-	45 190	14 800	390	
7	<del></del>	15 190	14 80G	390	
8	<del>-</del>	1 160	328	275	111
	-	1 170	329	282	111
•	L. <u>-</u> -	1 110	1		
-					
1 1	1	4 //0	1	285	T
<u> </u>	D 19	4 660	4 585~4 145	285	ļ
		2 590	2 304		<del> </del>
_1	D 13	4 560	4 578~4 143	135	· · · · · · · · · · · · · · · · · · ·
_!		15 150	14 800	190	<del> </del>
_ \$	<u></u>	\$ 280	966~9 586		
		15 200	14 806	390	<del> </del> -
	-	500	110	195	
		500	371~177	111	
<u> </u>	D 13	1 250	2 947	330	
2	D 13	1 129	923	195	
3	D 16	1 350	1 050	308	
- 4	D 13	2 530	2 730	195	
5		15 190	14 800	390	
- 6		15 490	14 800	390	<u> </u>
7		F5 199	14 800	390	<del> </del>
ı	•	1 160	328	279	111
3	•	1 170	329	282	111
Ţ 3					
<b>f</b> 1	D 13	\$ 950	4 585~4 985	285	
2	1	2 590	2 304	265	
3	D 11	4 990	4 528~4 931	195	<u> </u>
-4	,	15 190	14 800	390	1
5		6 740	6 737		<u> </u>
-		15 200	14 805	390	
7		500	110	195	
8	+	520	393~196	111	T
F 1	+		7 925	300	
• ;	+		945	195	T. —
;			1 050	300	T
		+	1 730	195	
<u>-</u>		35 190	14 800	390	T
		15 190	14 800	390	<del> </del>
		15 190	14 8G0	198	<del></del>
			328	219	111
	_	1 160	328	282	111
	11.	1 170	317	J	

REIS	\$ (12)	LENGIA		Ь	
<u> 10.</u>		(41)			
11	D 15	4 130	4 051~1 620	285	
2	,	2 598	2 304	285	
	0 13	4 030	4 051~3 614	195	
3		15 150	14 800	390	
4		1 629	\$ 616		
- 5			34 806	390	
		15 200		195	
		500	110		
		500	341~200		
FI	9 13	3 280	2 377	300	
2	0 13	1 090	853	195	
1	D 16	1 350	1 050	300	
ī	D 13	2 930	1 730	195	
5	,	15 190	14 EOD	390	
-	•	15 190	14 800	390	
1	,	15 194	14 800	390	
<u> </u>	-	1 150	328	239	141
		1 170	323	282	111
	L	, F14		· · · · · · · · · · · · · · · · · · ·	
1 2			1 4 4 4 4 8 7 4	285	ı —
<u> </u>	D 15	4 578	4 494~4 057		l
2	•	1 590	2 304	185	
3	D 13	4 470	4 487~4 851	195	ļ <u> —</u>
- 4	<u>'</u>	15 194	14 804	390	
\$		10 880	6 433~14 931	390	
•		15 200	14 806	390	
- 1		500	130	195	<u> </u>
8		510	386~197	1111	
FI	B 13	3 260	2 952	300	
	D 13	1 120	518	195	
	1	1 350	1 050	300	
3	D 16		2 730	193	<del></del>
4	D 13	2 930		390	1
\$	<u>                                     </u>	15 190	14 800	390	<del> </del>
	ļ. <u>.</u>	15 190	14 800		
7	<u> </u>	15 150	14 800	390	l
1	<u> </u>	8 1 53	328	279	111
3	<u> </u>	1 170	329	282	111
13					
1 1	D 19	4 999	4 895~4 454	285	<u> </u>
7	+	2 590	2 304	285	
,		4 890	4 891~4 481	195	<u> </u>
1	+	15 190	14 800	399	
<del>-</del> '	-	1 229	3 175~17 66	1 390	]
6	<del></del> -	15 200	14 805	393	T
1	_	580	110	195	
		520	385~191	111	T
<u> </u>			1 530	300	
F -1		3 239		195	1
		1 140	510		
<u> </u>		1 350	1 059	360	<del> </del>
	D 13	1 930	2 730	195	
		15 190	14 860	396	<del></del> -
	•	15 190	14 800	390	
_	•	15 190	14 800	390	1_=_
1	1	1 150	378	179	111
1	,	1 170	329	282	111
<del>                                     </del>		<u> </u>			

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	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
-	JICA STUDY TEAN	TITLE :	R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (3)
	PACIFIC CONSULTANTS INTERNATIONAL FUNCTANA CONSULTANTS INTERNATIONAL	DATE	DNG NO. W - 5







JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAN HIGHWAY

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (4)

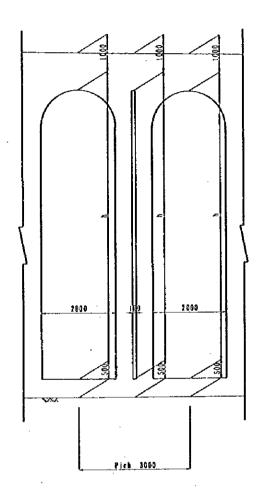
PACIFIC CONSULTANTS INTERNATIONAL

FUNCTIONAL CONSULTANTS INTERNATIONAL

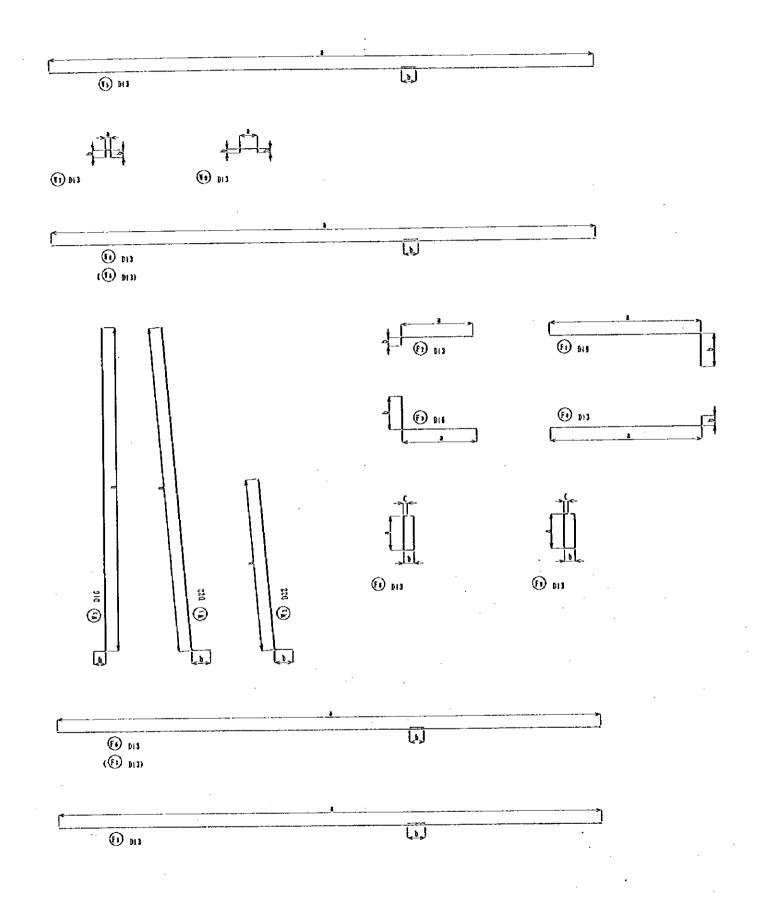
DATE

DWG NO. W-6

		(T-	1)			Ţ-	5	
		a a		b - b		a – a		b - b
	Ha 1	5 3 8 1	ньі	5 784	Hal	5 784	ньі	6 175
	Ha2	4 6 8 1	11 ъ 2	5 0 8 4	Ha?	5 0 8 4	11 Б 2	5 4 7 5
Α	Ha 3	180250 = 4500	ньз	200250	Ha3	200250	нь з	210250 = 5 250
	Ha4	1 0 0 2 5 0 = 2 5 0 0	<b>НЪ</b> 4	110250	Ha4	$   \begin{array}{r}     110250 \\     = 2750   \end{array} $	11 b 4	120250
L	Ha5	181	нь5	8 4	Ha 5	8 4	нь 5	2 2 5
	Bal	5 5 9	8 b 1	586	Bal	586	въз	612
I	Ba 2	2 6 4 1	В b 2	2 6 1 4	Ba2	2 6 1 4	B b 2	2 5 8 8
N	8 . 3	309	въз	336	Ba3	3 3 6	В Ь З	362
E	8 a 4	20229 = 458	B b 4	20242.5	B a 4	20242.5 = 485	B b 4	20255.5 = 511
	B & 5	172	В b 5	145	Ba 5	145	B b 5	119
	Ba6	89300 = 2400	В <b>b</b> 6	80300 = 2400	Ba 6	80300 = 2400	B b 6	80300 = 2400
	Ba7	4 2 5	B b 7	452	B a 7	4 5 2	В Б 7	478
l	Ba8	205	вья	178	Ba8	178	В в 8	152
		(T	-4)			<u>(T</u>	<u>- 5)</u>	
1		a - a		b - b	<u> </u>	a a		b – b
l	Ha1	5 2 9 1	H 6 1	5 6 9 5	Ha 1	5 6 9 5	13 P I	6 0 5 3
l	Ha2	4 5 9 1	Н Ъ 2	4 9 9 5	Ha2	4 9 9 5	11 b 2	5 3 5 3
В	Ha3	= 4 5 V V	ньз	$\begin{array}{r} 190250 \\ = 4750 \end{array}$	11 a 3	190250 = 4750	нь з	210250
	Ha4	90250 = 2 250	Н Ь 4	$\begin{array}{c} 100250 \\ = 2500 \end{array}$	H a 4	100250	H b 4	120250 = 3 000
L	Ha 5	9 1	H b 5	2 4 5	Ha5	2 4 5	1165	103
	Bal	5 5 3	B b 1	580	Bal	580	B b 1	604
1	B a 2	2 6 4 7	B b 2	2 6 2 0	Ва 2	2 6 2 0	В в 2	2 5 9 7
N	Ba3	ł	В Ь З	330	B a 3	330	В Ь З	354
Е	B a 4	20226 = 452	B b 4	20239.5 = 479	Ba4	20239. 5 = 479	Bb4	2 @ 2 5 1. 5 = 5 0 3
	8 8 5	I	В Ь 5	151	B a 5	151	8 b 5	127 8@300
	8 8 6	8 0 3 0 0 = 2 4 0 0	8 b 6	80300 = 2400	Ba6	8@300 = 2 400	B b 6	= 2 400
	B a 7	419	В Ь 7	446	B 4 7	446	В 6 7	470
Ŀ	Ba8	211	ВЬ8	184	Вав	184	B b 8	160



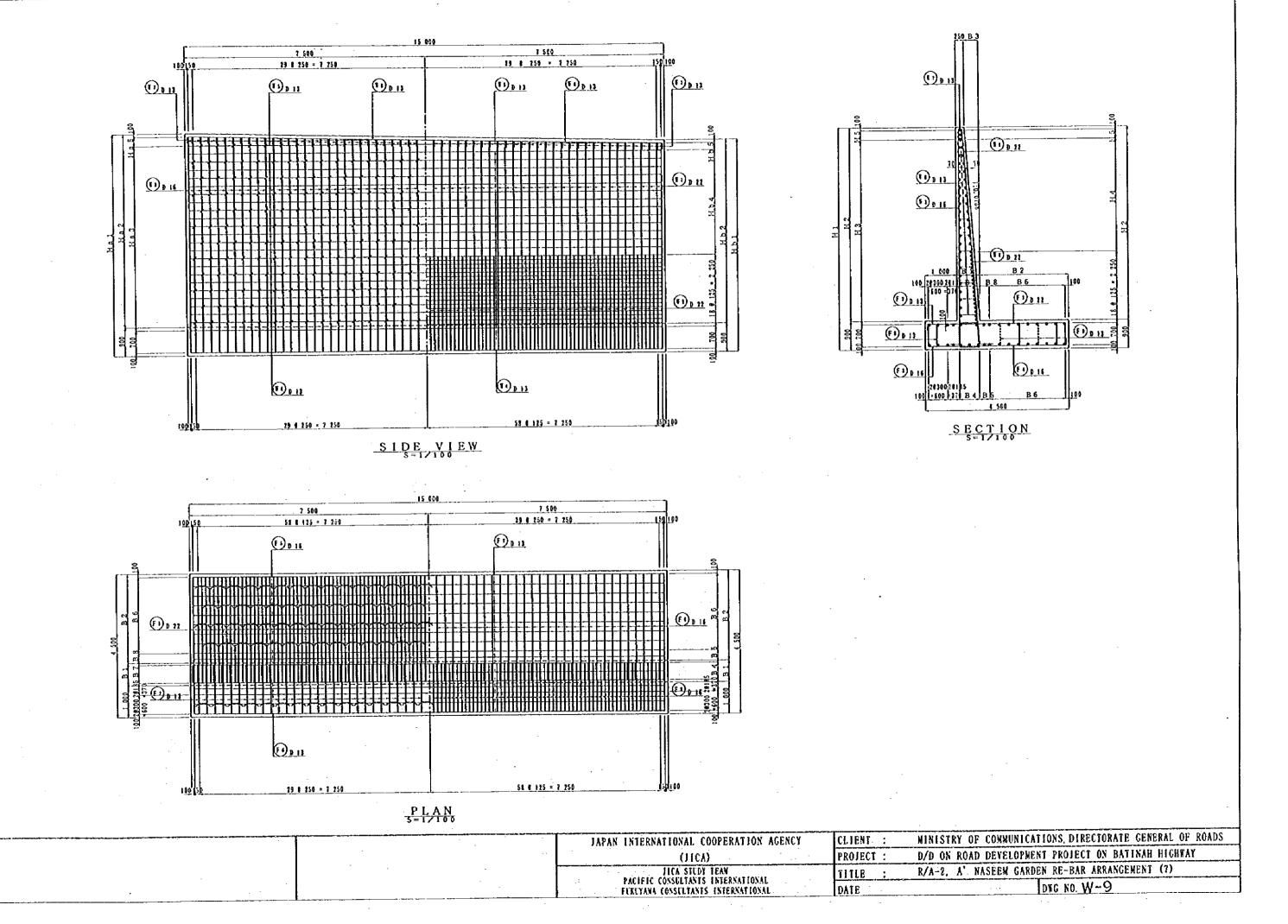
Slit Shape in Front of Tall (Thickness f=30 ma)



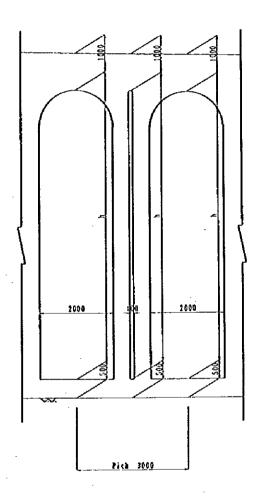
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MO		<b>♦ (±1)</b>	(56)	1	1	ε
ī						
ĭ	1	D 22	5 730	5 596~5 192	330	
	1		3 090	2 756	330	
	3	D 16	5 630	5 584~\$ IBI	240	
_	1	D 13	15 190	14 \$00	390	
	5	-	7 980	3 127~12 432	390	
	•	-,	15 200	14 805	390	
_	7	-	500	11.6	195	
-	-	,	560	461~201	101	<del></del>
F	÷	D 13	3 650	3 148	500	
<u> </u>	1	0 13	1 420	1 272	135	
_			1 759	1 250	500	
	3	0 16	3 239	1 030	195	
	4	D 13		14 800	390	<del> </del>
	\$		15 190		390	
<u>.                                    </u>	•		15 190	14 800	390	<del> </del> -
_	1	-	15 190	14 800		111
	1		1 560	528	275	111
	,	•	1 576	529	282	111
-	5			1		1
1	1_	D 22	<b>6</b> 130	5 558~5 596	330	<del>                                     </del>
	1	-	3 090	2 756	330	<u> </u>
	3	D 15	6 020	\$ 975~\$ 584	240	<u> </u>
	4	D 13	15 130	14 800	390	
	5	,	8 649	B 632		<u> </u>
L	- 6	<u> </u>	15 200	14 895	390	
	7		500	118	195	<u> </u>
	3		570	494~196	111	
7	ı	D 13	3 630	3 122	500	
	1	0 13	1 450	1 248	195	<del> </del>
Ĺ	3	D 14	1 750	1 750	500	
	4	0 11	3 230	3 030	195	
	5	•	15 190	14 800	390	
Γ	- 6	,	15 193	14 800	390	
Г	7		35 190	14 800	390	
Г	B	1	1 560	528	275	111
Г	,	7	1 570	529	282	111
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11	-:-				
- 1			\$ 507~5 102	330	
3 090		2 754	- 330		
3	D 16	5 \$40	5 495~\$ 031	240	
- 4	D 13	15 190	34 800	350	
5	-	3 100	5 097		<del></del>
6	•	15 200	14 805	393	
1	•	500	110	195	
		560	462~198	111	
F 1	D 15	3 660	3 154	500	
1	D 13	1 120	3 216	195	
3_	D 16	1 750	1 250	500	
4	0 13	3 230	3 630	195	
5		15 190	14 800	390	
6	•	15 190	14 800	198	
7		15 190	14 800	390	
8	•	1 560	528	279	111
9	,	1 570	529	282	111
15					
11	0 22	6 410	5 866~5 507	330	
ì	•	3 090	2 756	330	
3	D 16	\$ 920	5 853~5 495	2 40	
4	D 11	15 190	[4 800	390	
S	•	9 750	4 316~14 731	390	
i	•	15 290	14 804	390	
7	•	500	114	195	
1	•	\$60	486~168	111	
Fi	D 19	3 630	3 130	500	
2	D 13	1 448	1 240	195	
3	D 16	1 750	1 250	500	L
4	D 13	3 230	3 030	195	
\$	•	15 690	14 800	390	<u> </u>
8	•	15 190	14 800	390	
7	,	15 190	14 800	390	
8	•	1 560	528	279	101
9	,	1 570	519	282	131

		200
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STEDY TEAN	TITLE :	R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (6)
PACIFIC CONSULTANTS INTERNATIONAL FUNCTIONAL CONSULTANTS INTERNATIONAL	DATE	DWG NO.W-8

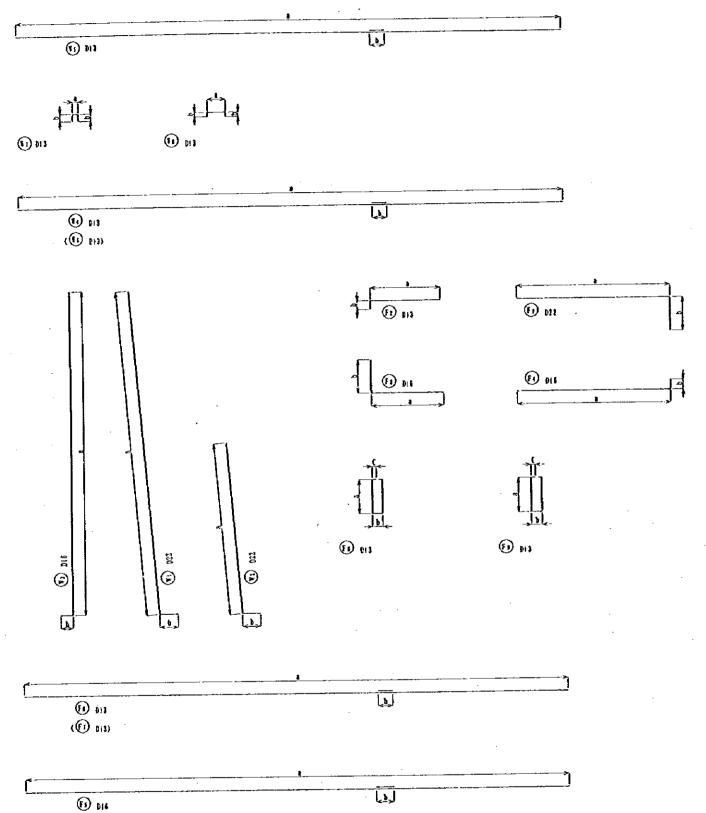


				<del></del>				
		<u>(1</u> -	<u>6</u>				1)	
		a - a		<b>b</b> – <b>b</b>		a a		b - b
	Hai	6 3 7 5	нь 1	6 7 6 6	H a 1	6 7 6 6	1161	7 0 4 6
	Ha2	5 4 7 5	НЬ2	5 8 6 6	H a 2	5 8 6 6	НЬ2	6 1 4 6
A	НаЗ	210250 = 5 250	Н Ъ З	230250	Ha3	230250 = 5750	Н Ь 3	240250 = 6 000
ı	Ha4	129250	Hb4	148250	H a 4	140250	II b 4	150250 = 3 750
ì	Ha S	2 2 5	Н Ъ 5	116	Ha5	116	Н Ъ 5	146
L	Bal	6 5 4	вы	683	Bai	683	8 b 1	703
I	882	2 8 4 6	В Ъ 2	2 8 1 7	Ba2	2 8 1 7	вь 2	2 797
N	ВэЗ	404	8 b 3	433	ВаЗ	4 3 3	В b 3	453
Е	Ba4	20286.5	B b 4	20300.5	B a 4	20300.5	8 b 4	622
	8 & 5	20178.5	вья	20164.5	8 a 5	20164.5	B b 5	20154 = 308_
	Ваб	8 9 3 0 0 = 2 4 0 0	В Б 6	8 <b>8 3 0 0</b> = 2 4 0 0	Ba6	8 0 3 0 0 = 2 4 0 0	въ 6	8 0 3 0 0 = 2 4 0 0
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l L	H a 2 H a 3 H a 4	5 3 5 3 2 1 0 2 5 0 = 5 2 5 0 1 2 0 2 5 0 = 3 0 0 0	Иь 2 Нь 3 Нь 4	6 6 1 1 5 7 1 1 2 2 2 2 5 0 = 5 5 0 0 1 3 2 5 0 = 3 2 5 0	Ha2 Ha3	6 6 1 1 5 7 1 1 2 2 9 2 5 0 = 5 5 0 0 1 3 9 2 5 0 = 3 2 5 0	Hb2 Hb3 Hb4	6 9 2 5 6 0 2 5 2 4 0 2 5 0 = 6 0 0 0 1 5 0 2 5 0 = 3 7 5 0
	На2 На3 На4	5 3 5 3 2 1 0 2 5 0 = 5 2 5 0 1 2 0 2 5 0 = 3 0 0 0 1 0 3 6 4 5	Иь 2 Нь 3 Нь 4 Нь 5	6 6 1 1 5 7 1 1 2 2 @ 2 5 0 = 5 5 0 0 1 3 @ 2 5 0 = 3 2 5 0 2 1 1 6 7 1	Ha2 Ha3 Ha4	6 6 1 1 5 7 1 1 2 2 2 5 0 = 5 5 0 0 1 3 2 2 5 0 = 3 2 5 0 2 1 1 6 7 1	Hb2 Hb3 Hb4 Hb5	6 925 6 025 240250 = 6 000 150250 = 3 750 25
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l L I	H a 2 H a 3 H a 4 H a 5 B a 1 B a 2 B a 3 B a 4 B a 5 B a 6	5 353 218250 = 5 250 128250 = 3 000 103 645 2855 395 28282 = 564 28183 = 366 88300 = 2400 512	Hb 2 Hb 3 Hb 4 Hb 5 Bb 1 Bb 2 Bb 3 Bb 4 8 b 5	6 6 1 1  5 7 1 1  2 2 2 2 5 0  = 5 5 0 0  1 3 2 5 0  2 1 1  6 7 1  2 8 2 9  4 2 1  2 2 2 9 5  = 5 9 0  2 1 7 0  = 3 4 0  8 2 3 0 0  = 2 4 0 0	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2 Ba3 Ba4 Ba5	6 6 1 1  5 7 1 1  2 2 2 2 5 0  = 5 5 0 0  1 3 2 2 5 0  2 1 1  6 7 1  2 8 2 9  4 2 1  2 2 2 9 5  = 5 9 0  2 1 1 7 0  3 4 0  8 8 3 0 0  = 2 4 0 0	Hb 2 Hb 3 Hb 4 Hb 5 Bb 1 Bb 2 Bb 3 Bb 4 Bb 5	6 9 2 5  6 0 2 5  2 4 0 2 5 0  = 6 0 0 0  1 5 0 2 5 0  = 3 7 5 0  2 5  6 9 4  2 8 0 6  4 4 4  2 0 3 0 6 . 5  = 6 1 3  2 0 1 5 8 . 5  = 3 1 7  8 0 3 0 0  = 2 4 0 0



Slif Shape in Front of Vall
(Thickness 1=30 mm)

	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT ;	MINISTRY OF COMMUNICATIONS, DIRECTORATE CENERAL OF ROADS
	(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
·	JICA STUDY TEAN	TITLE :	R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (8)
	PACIFIC CONSULTANTS INTERNATIONAL FUNCTURE CONSULTANTS INTERNATIONAL	DATE	DWG NO. W-10



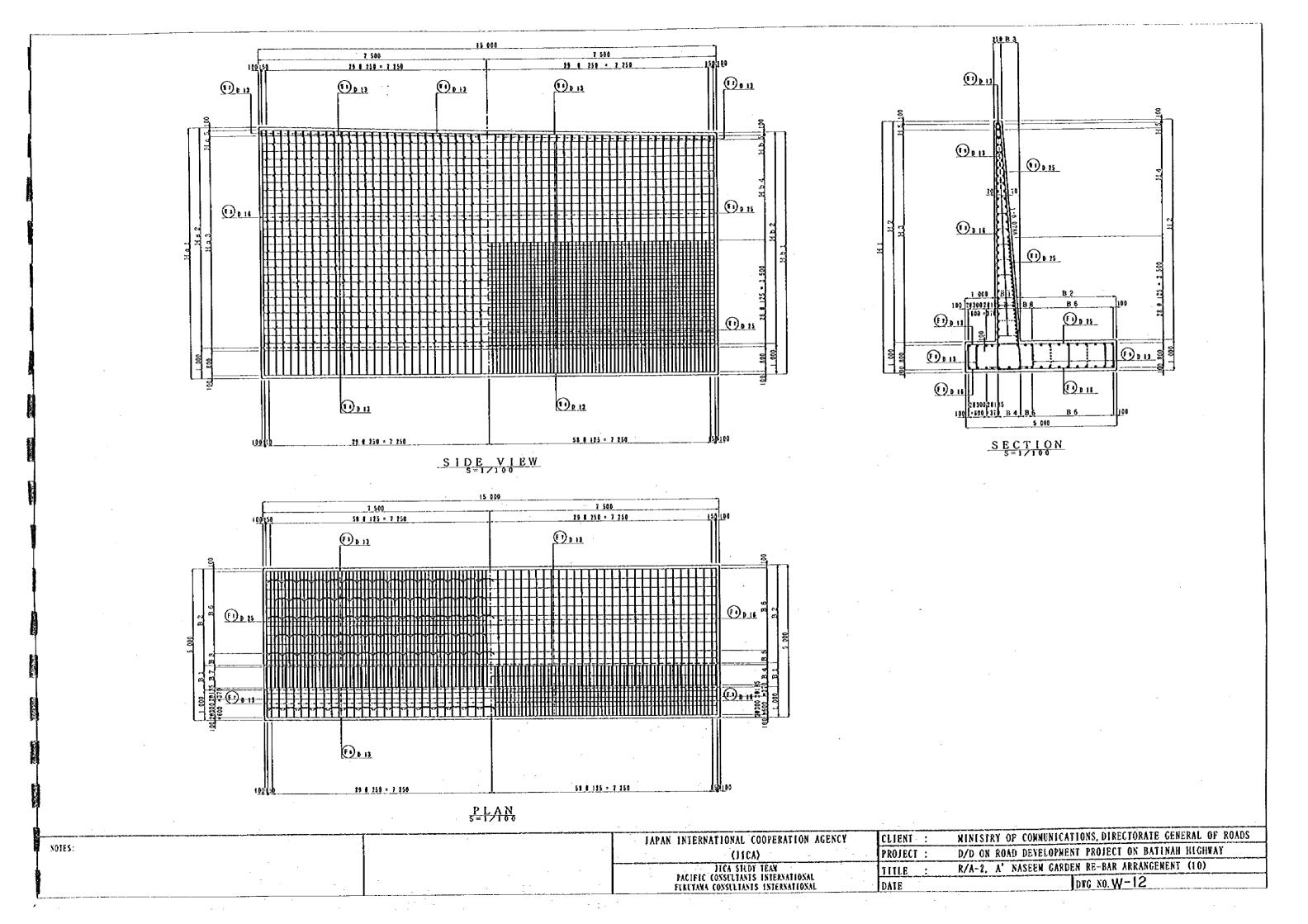
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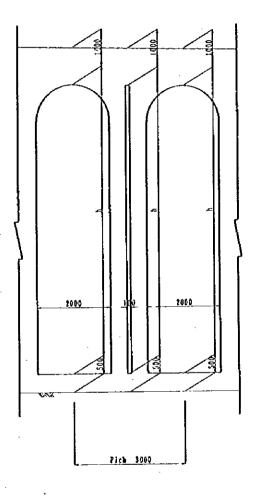
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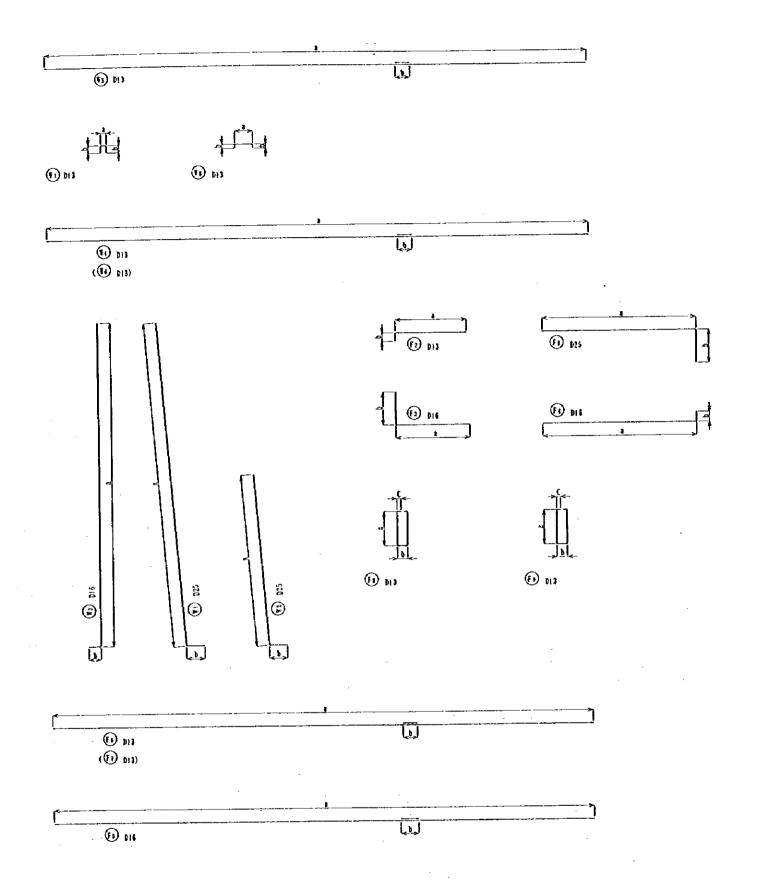
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(IICA)		D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
LICA STUDY TEAN		R/A-2. A' NASEEM GARDEN RE-BAR ARRANGEMENT (9)
PACIFIC CONSULTANTS INTERNATIONAL	DATE	DWG NO. W-11



	-	(T-	8)			T-	9		(T-10)			
		a – a		b - b		a – a		b - b		a - a		b - b
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	Ha 2	6 1 4 6	II b 2	6 4 2 5	Ha2	6 4 2 5	H b 2	6 6 9 4	Ha2	6 6 9 4	H b 2	6 9 6 2
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۱,	Ha4	150250 = 3 750	H b 4	110250 = 2750	Ha4	1 8 2 5 6	- Н b 4	120250	Ha4	120250	H b 4	130250 = 3 250
'	Ha 5	146	Hb5	175	Ha 5	175	H b 5	194	H a 5	194	H b 5	2 1 2
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E	Ba 4	664	B b 4	686	B a 4	686	B b 4	707	Ba4	707	8 b 4	7 2 8
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.	Ba6	= 466 90300 = 2700	B b 6	98300	Bab	98300	8 <b>b</b> 6	99300 = 2700	B a 6	98300	В Ь б	98300
	Ba7	601	B b 7	623	Ba7	623	8 b 7	644	Ba?	6 4 4	ВЬ7	665
	B 8 8	20264.5	В ъ 8	20253.5	Ba &	20253.5	В в 8	28243 = 486	8 a 8	20243 = 486	В ђ 8	20232.5 $= 465$
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	Ha 2	6 0 2 5	Н Ъ 2	6 3 3 8	Ha2	6 3 3 8	нь2	6 6 0 6	Ha 2	6 6 0 6	Н Ь 2	6 8 7 4
В	Ha 3	248250	ньз	250250 = 6 250	Ha3	250250	нъз	260250 = 6500	Ha 3	269250 = 6 500	Н b 3	270250 = 6750
١,	<b>-</b> -	150250	<del> </del> -									4 0 0 5 5 4
	Ha4		H 5 4	110250	Ha4	) 1 0 2 5 0 = 2 7 5 0	H b 4	126250	На4	129250	H b 4	$\begin{array}{c} 130250 \\ = 3250 \end{array}$
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L	Ha 5	= 3 1 5 0 2 5 1 2 3	H <b>b</b> 5	= 2 750 88	lla 5	= 2 750 8 8	- Н b 5	= 3 0 0 <u>0</u> 1 0 6	Ha S	= 3 000 106	H b 5	124
	Ha5 Bal	= 3 150 25 123 3 277	Н <b>b</b> 5	= 2 750 8 8 7 4 8 3 2 5 2	lls 5 Bal	= 2 750 88 748	H b 5	= 3 000 106 769	Ha5 Bal	= 3 0 0 0 1 0 6 7 6 9	Н b 5 В b 1	7 9 0 3 2 1 0 5 4 0
I N	Ha5 Bal Ba2	25 25 223 3277 473 20327	H b 5 B b 1 B b 2	= 2 750 88 748 3 252 498 20339.5	lis 5 Bal Ba2	2 7 5 0 8 8 7 4 8 3 2 5 2 4 9 8 2 0 3 3 9 5	H b 5 B b 1 B b 2	= 3 000 106 769 3 231	Ha5 Bal Ba2	= 3 0 0 0 1 0 6 7 6 9 3 2 3 1	Н b 5 В b 1 В b 2	3 250 124 790 3 210 540 20360.5 = 721
I	Ha5 Ba1 Ba2 Ba3	= 3 7 5 0 2 5 1 2 3 3 2 7 7 4 7 3 2 0 3 2 7 = 6 5 4 2 0 2 3 8	H b 5 B b 1 B b 2 B b 3	2 7 5 0 8 8 7 4 8 3 2 5 2 4 9 8 2 0 3 3 9 5 = 6 1 9 2 0 2 2 5 5	11 s 5 B a 1 B a 2 B a 3	= 2 750 88 748 3 252 498	H b 5 B b 1 B b 2 B b 3	= 3 000 106 769 3 231 519 20350	Ha5 Ba1 Ba2 Ba3	= 3 0 0 0 1 0 6 7 6 9 3 2 3 1 5 1 9 2 @ 3 5 0	H b 5 B b 1 B b 2 B b 3	3 2 5 0 1 2 4 7 9 0 3 2 1 0 5 4 0 2 0 3 6 0 . 5 = 7 2 1 2 0 2 0 4 . 5 = 4 0 9
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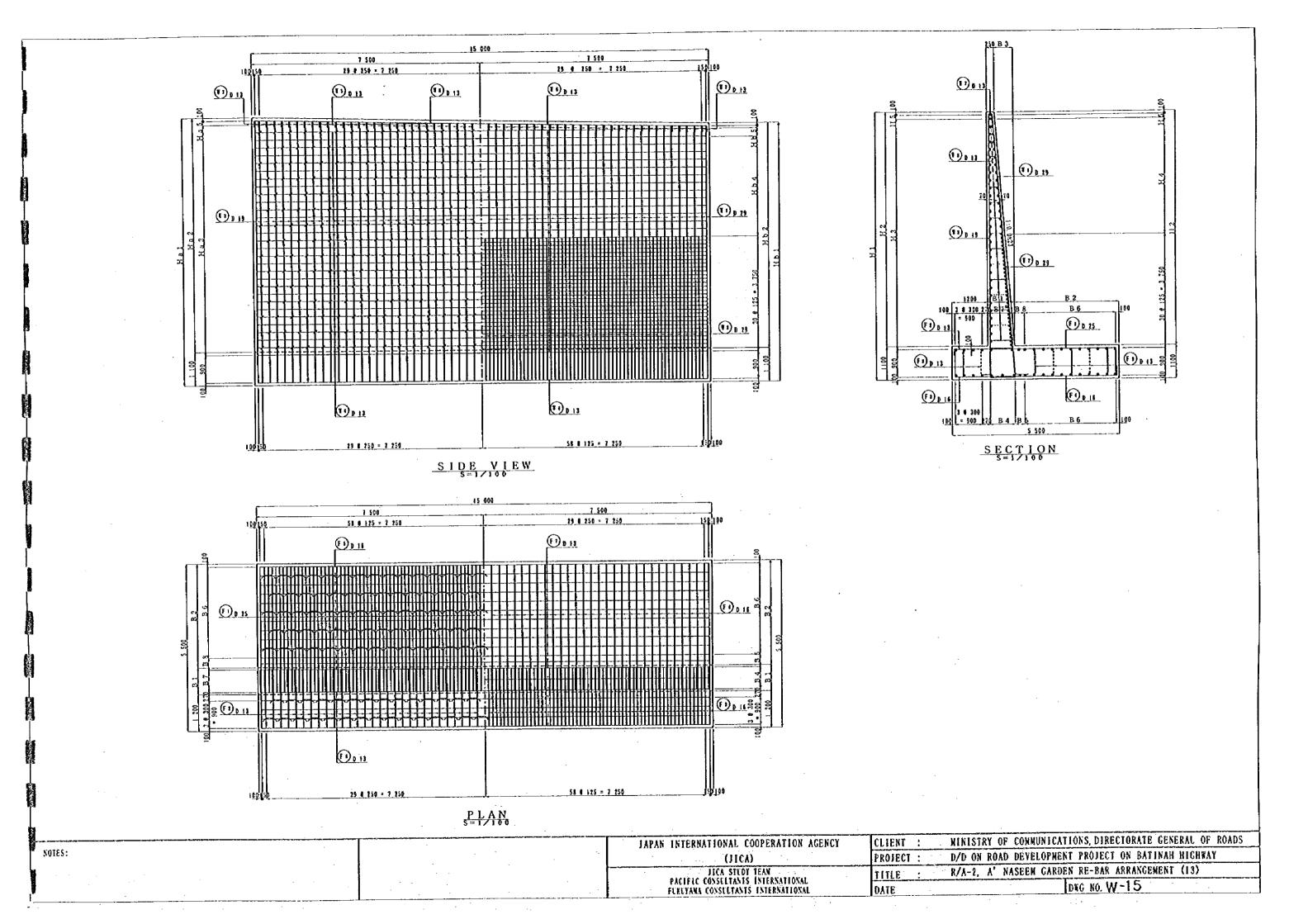
Slit Shape in Front of Vall (Thickness 1=30 mm)



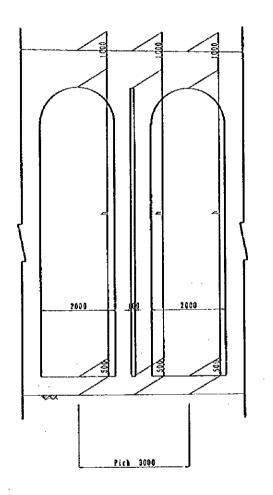
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		4 690	4 313	375	
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Ş		15 280	14 800	410	
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	-	500	110	195	
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		670	658~226	<del></del>	<del> </del>
FI	0 25	4 740	3 936	800	
2	D 13	3 8 10	1 614	i 5 S	
3	D 16	2 250	1 450	800	
- 4	,	4 070	3 830	240	<u> </u>
Ś		15 230	14 800	480	I
6	D 13	15 190	14 800	390	<u> </u>
7	,	15 190	14 800	330	T
	1-,-	1 160	818	279	111
	<b>-</b>	1 180	834	268	111
	J	1 100	]		<u> </u>
7 10	T	1	1 - 200 - 51-		1
1 1	0 25	B 630	7 786~7 517	f	<del> </del>
- 1		4 690	4 313	375	- <del></del>
3	D 16	7 870	7 761~7 494	240	<b></b>
- 4	D 13	15 190	14 800	396	<u> </u>
5	,	11 870	11 266		
6	,	15 200	14 802	390	
7	•	500	110	195	
	-	670	679~207	111	1
	4	· <del> </del>	3 515	800	1 ==
FI	D 25	4 729		195	1
2	D 13	1 830	1 635	<del> </del>	<del> </del>
3	D 16	1 250	1 450	. 800	<del></del>
	1	4 070	3 830	240	
5	•	15 280	14 800	480	
6	D 13	15 190	14 800	350	
7	_	15 190	14 800	390	
1		2 160	\$21	279	311
	-	\$ 180	834	288	111
ļ	1				
1					

Ø.	(22)	LENGIH (us)		•	
1					<del></del> -
1	D 25	7 386	7 160~6 545	375	
1	•	4 690	4 3 3	375	
- 5	D 16	7 230	7 135~6 125	240	
-1	D 12	15 190	14 196	399	
5	-,	4 220	4 217		
•	•	15 200	14 803	390	
7	•	500	110	155	
1	,	640	630~198	111	
Ť	D 25	4 770	3 564	800	
7	B 13	1 790	1 586	195	
-	D 16	2 250	1 450	800	
-;+		4 070	3 830	240	
-	-	15 250	14 800	410	
	B 13	15 190	14 850	190	
-		15 190	14 800	350	
	-	1 160	828	279	111
-!			828	288	111
	•	2 188	1 131		1
19	1		1		T
	D 25	7 670	7 429~7 160	375	<del> </del>
		4 690	4 313	375	<del></del>
3	0 16	7 520	7 406~7 138	241	<del> </del> -
- 4	B 13	15 190	14 800	399	L
5		5 340	5 933		
- 6		15 200	14 602	390	
7	•	500	160	195	
8	•		651~219	111	
F 1	D 25	4 750	3 943	800	
1	D 13	1 B10	1 607	195	
3	D-16	2 159	1 450	800	
4	•	4 079	3 630	240	
5	•	15 280	14 800	490	<del></del>
-6	D 13	15 190	14 800	390	
7	3	1S 190	14 800	390	<u> </u>
ŧ	,	2 160	828	279	111
5		2 180	834	288	1/1
	_		<u> </u>		
1 10					
T 1	D 25	7 540	7 698~7 419	375	
	-	4 690	4 313	375	
3	D 16	7 789	7 574~7 406	<del> </del>	T
- +	D 13	15 190	14 800	390	
	,	6 910	6 940	<b> </b>	
<del>-</del> ;		15 200	14 802	390	
	-	500	110	195	T
<u>_</u>	<del>                                     </del>	660	672~200	10	1
	<del>!</del> -	4 739	3 522	800	<del> </del>
fi	D 25	ŧ	1 528	195	<del>+</del>
- !	0 13	1 830	1 450	800	1
	3 16	2 250	<del></del>	-{	<del></del>
	<u> </u>	4 070	3 830	240	+=
- 5	2	15 280	14 800	480	+==
	D 13	15 190	14 600	390	<del> </del> -
. 7		15 190	14 808	390	<del> </del>
	<u>  '</u>	2 160	826	279	- 111
1		Z 180	814	288	111
- 1 - 3	1	2 100	.1	_1 <del></del>	_L

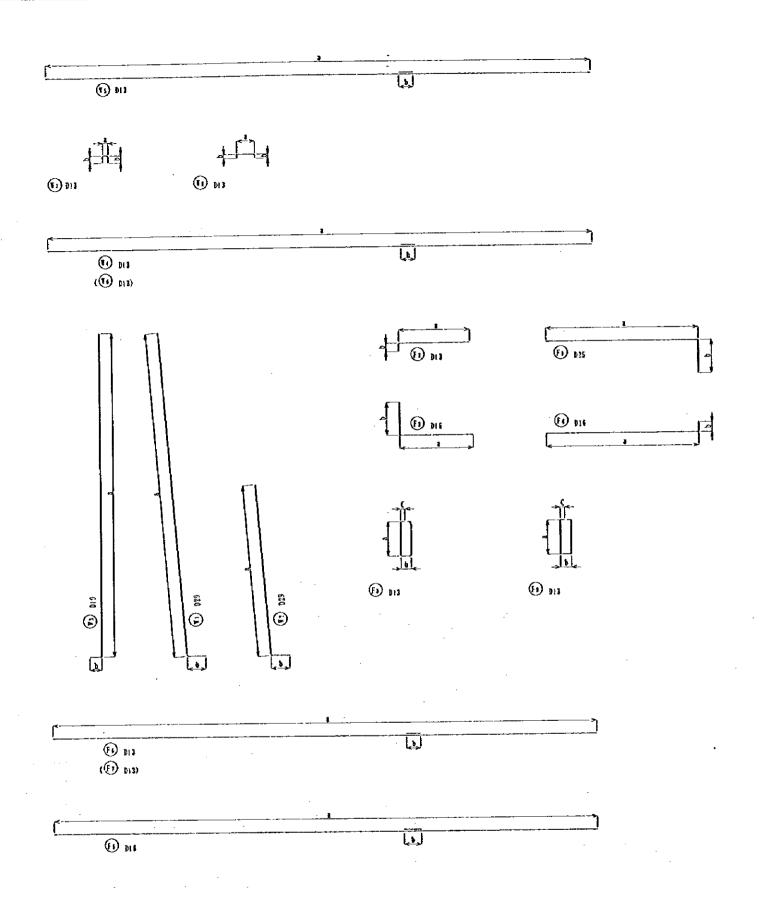
			7.00
7	JAPAN INTERNATIONAL COOPERATION AGENCY	VD I D	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
:	(LICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	JICA STEDY TEAN	TITLE :	R/A-2. A' NASEEM GARDEN RE-BAR ARRANGEMENT (12)
ı	PACIFIC CONSULTANTS INTERNATIONAL	DATE	DVC NO.W-14



		<b>(</b> -	1)	
		a - a		b - b
	Hal	8 0 6 2	Нь 1	8 3 3 0
	H a 2	6 9 6 2	НЪ2	7 230
Α	Н в 3	270250 = 6750	нь з	280250 = 7000
1	Ha 4	129250	Н Б 4	130250
L	Ha5	212	Н Ъ 5	230
	Bal	8 2 3	Bbl	8 4 5
I	B a 2	3 4 7 7	B b 2	3 4 5 5
N	Ba3	573	В b 3	595
E	B a 4	765	В б 4	787
	B a 5	20182.5 = 365	Въ5	20171.5 = 343
	8 a 6	100300 = 3000	B b 6	100300
	8 a 7	691	B b 7	713
	B a 8	20219.5 = 439	B b 8	20208.5 = 417
	<u></u>	(T-	10	
		a - a		b b
	Hal	7 9 7 4	ньі	8 2 4 2
	11 a 2	6 8 7 4	H b 2	7 1 4 2
В	Ha3	270250 = 6750	Н в 3	280250 = 7000
1	Ha4	120250 = 3 000	Н 64	130250 = 3250
L	На5	124	H b 5	1 4 2
	B a 1	816	861	838
I	B a 2	3 4 8 4	8ь2	3 4 6 2
N	Ba3	. 566	вь з	588
E	Ba4	20379 = 758	В В 4	2 0 3 9 0 = 7 8 0 2 0 1 7 5
	B a 5	2 @ 1 8 5 = 3 7 2	В Ъ \$	= 350
	Ba6	100300	В Б 6	100300
	B a 7	684	B b 7	706
L	B a 8	20223 = 446	В 6 8	20212 = 424



Stit Shape in Front of Tati (Thickness t=30 mm)



RE18 50.	φ (m)	LENGIA (ca)	3	4	c
T 11					
¶ 1	D 23	B 460	8 157~7 885	435	
1	•	5 114	4 566	435	
. 3	D 13	8 290	1 130~7 862	285	
4	D 13	15 190	14 800	390	
5	,	13 270	12 873	390	•
6	,	15 200	E4 802	390	
7	,	500	1 0	195	
8	•	710	729~236	111	
FI	D 25	5 679	4 157	500	
2	D 13	2 080	1 883	195	
3	9 14	2 550	1 650	900	
4		4 370	4 130	240	
5		15 280	14 800	480	
•	D 13	15 450	14 800	390	
7	•	15 190	14 800	390	
ı	•	2 360	328	275	111
,	•	2 380	934	288	111

RE IS	\$ (ER)	LENGTE (E)	1	ь	ć
III					
<b>1</b> 1	D 29	8 370	8 069 ~ 7 800	435	
1	•	5 110	4 465	435	
3	D 19	\$ 200	8 042~7 174	285	<u> </u>
4	D 13	15 190	14 690	390	
5		7 950	7 948		
i i	• 1	15 200	14 802	390	
7		500	110	195	
ŧ	•	200	721~229	113	
F 1	D 25	5 030	4 174	900	
3	9 13	2 030	1 876	195	
3	D 16	2 550	1 650	900	
4	•	4 370	4 130	245	
5		15 280	14 800	480	
-	D 13	15 190	14 800	390	1
1	-	15 190	14 800	390	
8	•	2 360	921	275	111
9	•	2 360	934	188	iil

· · · · · · · · · · · · · · · · · · ·		
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)		D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA SILDY TEAN	TITLE :	R/A-2. A' NASEEN GARDEN RE-BAR ARRANGEMENT (15)
PACIFIC CONSCITANTS INTERNATIONAL FUNCYAMA CONSCITANTS INTERNATIONAL	DATE	DVG NO. W-17

NO. O	IN	E					
NO.	(11)	LESCIB	5081541	NINB	T SEIGHT	REIGHT	REYARES
		{EB}	BEIGHT				
<del></del> .	Tein	4 279	2. 235	51	5, 432	\$75.4	1
	0 13	2 530	1. 224	58	5, 185	335. 1	<u> </u>
		4 120	4. 994		4. 095	149. 8	<u> </u>
	D 13	15 198	1. 331	34	15. 033	513.4	
- 4	-	7 510	<del>-</del>		7, 465	19. 5	
- ;  -		15 200		1	15, 103	30. 2	
	-	500	;	<b>\$1</b>	0.437	35. 3	4
<del></del>	-	490		207	0.417	100. L	-
	D 13	289	1, 235	119	7. 331	\$72.4	
	D 13	1 130	0.994	61	1.093	66.7	-
— <del>;</del> †	D 16	1 350	1.551	119	2.095	249.3	L_
	0 13	1 938	0.994	61	2.912	177.6	
- 3		15 190	-	10	15. 993	151.0	
		15 150	-	3	15. 099	45. \$	
7		15 190	•	14	15. 099	2)1. (	
8		1 160		29	1.153	13. t	a
,	•	1 170	,	116	1,113	134. 3	ε
						3807.6	
_							
1 1						-	<u> </u>
1 1	D 13	4 669	1, 135	£1	10.415	635.3	L
2		2 590		58	5. 789	135. 1	<u> </u>
3	D 13	4 540	0.994	<b>6</b> 1	4.533	276.5	<u> </u>
4	•	15 190		38	15.093	\$73.8	
Ş		5 280		- 4	5, 248	21 <b>6</b>	
6		15 20 <b>0</b>	•	1	15. 109	30.2	
7	•	SOD		ş i	0. 457	30.3	
8	,	500		236	0. 437	117.3	- <del></del>
Fì	D 15	3 250	2. 235	113	7. 164	1	
2	D 13	1 120	0.994	61	1.113	1	
3	D 16	1 350	1,551	113	2. 095	+	
4	D 11	2 930	9.954	61	+		<b></b>
. 5	-	15 198		18	<del></del>	·	<del> </del>
- 6		15 190		13	-	<del> </del> -	<del></del>
	-	15 150	<del>                                     </del>	- 23	<del></del>	<del></del> :	4
- 8	-	1 170	<del> </del>	116	<del></del> -	·	4 <del></del> -
-31	<u> </u>	1	<u> </u>		<u> </u>	3540.3	
<u> </u>							
7 3							
11	D 15	5 080	2.235	- 61	11.354	692.6	1 1
2	,	2 590	•	58	5. 789	335. 8	1
3	D 13	<del> </del>	0.994	51	4. 950	301.5	
		15 190	<del>}</del>	11			
5	,	6 760	+	1	6, 700	13. (	
6	,	15 200		1	15.10	30. 2	
1	•	500		81	9. 45	30. 1	
1	_	510		130	0.51	1 22. (	1 -
f I	D 19	3 230	1. 235	11!			
	0 11	1 (49		- 6	·		
2	1	1 350	<del></del>	113			
3	9 16		4.594	- 6			
	D 13				1 15.05	9 [ 135. !	
3	D 13	15 150					
3	D 13	15 150 15 190			15.05	9 45.	3
4 5	D 13	15 190 15 190 15 190		<u>'</u>	3 15.05 3 15.05	9 45.1 9 195.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.05 3 7.15	9 45. 9 198. 3 33.	3 3
3 4 5 6	D 13	15 190 15 190 15 190		<u>'</u>	3 15. 05 3 15. 05 3 7. 15 6 1. 16	9 45. 9 196. 3 33. 3 134.	3 3 4 D 9 O
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.05 3 7.15	9 45. 9 198. 3 33.	3 3 4 D 9 O
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.05 3 7.15 6 1.16	9 45. 9 196. 3 33. 3 134. 4051.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3	9 45. 9 198. 3 33. 3 134. 4051. 9 5506.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.09 3 1.15 6 1.16	9 45. 9 196. 3 33. 3 134. 4051. 9 \$\$06.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3	9 45. 9 196. 3 33. 3 134. 4051. 9 \$\$06.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.09 9 2.15 6 1.16 D 1	9 45. 1 196. 3 23. 3 134. 4041. 9 5506. 6 747. 3 5554.	3
3 4 5 6 7	D 13	15 190 15 190 15 190		1 1	3 15.05 3 15.09 3 1.15 6 1.16	9 45. 1 196. 3 23. 3 134. 4041. 9 5506. 6 747. 3 5554.	3

B – L	I N	7									
REIN	(10)	LENGIB	NONINAL	AU3	E TEIGHT	SEIGHT	LENARES				
<u> 50.   Y</u>		(88)	1 E E E E E E			1					
	D 19	4 130	2. 215	\$1	9. 231	563. 1	l				
2	•	1 590		58	\$. 763	335. 8	<u> </u>				
	D 13	4 039	0.554	61	4,064	244. 4 513. 4					
4	-	15 159		2	1. 568	17.1					
- 5		15 260	<del></del> -		15.105	30. 2					
7	•	500	,	65	0.497	30. 3	•				
1	•	500	ř	111	0, 157	88.0					
Fl	D 19	3 180	2. 235	113	7, 331	171.4	<u> </u>				
	D 13	1 030	0.994	113	1.083	249.3	<u>-</u>				
	D 16	2 930	1.552 0.994	61	1.511	177.5					
-		15 190		10	15.093	151.0					
	•	15 190	,	3	15.035	45. 3					
1		15 190		14	15.099	211.4					
	•	1 150		25	1.151	134. 9	_ <del>0</del> _				
- 1	•	1 170		116	1.161	3763. 7					
11											
11	P 19	4 \$70	2. 235	51	12.214	623. 1 535. 1	<del>}-</del> -				
2	P 43	2 550	0, 994	58 61	5, 783 6, 443	335. 1 271. 0	<u>\</u>				
-	D ()	4 470	0. 991	36	15. 899	\$13.6					
		10 880		1	19.815	43.3					
	•	15 200	•	2	15, 183	30. 1					
7	,	500		11	0.497	30.3					
		510	<del></del> -	207	0.507	184. 9 867. 0					
<del>  -  </del>	D 19	3 260 6 120	2. 135 0. 334	119	1.113	67, 3	<u> </u>				
	D 13	1 350	1, 552	113	2.095	249.3	1				
1	B 13	2 930	0. 994	61	2.912	177. 6					
5	•	15 190	•	10	15.099	151.0					
[ [		15 150		3	15.093	45. 3					
		15 190	•	13	15. 05\$ 1, 153	136.3	Ü				
3	<del></del>	1 166		116	1.163	134. 9	0				
F-1						3904. \$					
							<u> </u>				
13	• • •			1 6	11.153	680.3	Ī				
1 1 2	D 15	4 990	2. 235	58	5, 789	315.1	1				
1 1	D 13	4 890	0.994	61	4. 861	138.5	j				
		15 199		34	15, 099	+					
5	•	1 120		4	8.111	32. 2					
6		15 200		2	15.193	30. 2					
1		500		207	0.497 0.517	197. 0					
1   1	0 1)	3 230	2. 235	119	7. 215						
2	D 13	1 140	0. \$34	61	1.133	69. 1					
3	DII	1 350	1.551	113	2.035		L				
- 1	D 13		0. 994	61	2.312	1	ر <sub>بید</sub>				
5	-	15 138		10	15.099 15.099	1					
1	•	15 159 15 199		11	15.033		<b> </b>				
		1 153		29	1, 153		U				
9		1 170	<b>.</b>	116	1, 163		U				
						3972.4					
<u> </u>		5478. 4	·								
<u> </u>	·		·		0 19 • 0 14	<del></del>					
1-					0 11						
-											
				-1	OTAL VERGET	£1641. <b>♦</b>					
l			·			<del> </del>					

JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(11CA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAN	TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (16)
PACIFIC CONSELTANTS INTERNATIONAL	DVC NO. W - 18

A-LINE REIN | O (sa) | LENGTH | NONINAL SUNS | E SEIGHT | TEIGHT | BEHARTS 9, 400 545. 2 533.0 1.551 J. 711 \$79.\$ 0.554 45 15.093 7. 932 15.149 30.2 15 200 0.497 30. 8 500 148. 1 266 0.557 560 3 650 1. 235 119 978.8 F 1 D 13 16.1 1 D 13 3 D 16 1.411 1 420 0.394 61 ) 750 323. 2 1.552 113 2. TL 6 195.3 3. 211 t D 13 3 230 0. 994 15.639 151.0 • 15 190 60.4 15.033 226.5 15 150 15.093 25 1.551 116 1.561 45. Q 1 56# 10.1 0 9 - 1 570 18.647 1 117.5 W | D 22 3 099 3.400 515.1 9.343 569. 9 3 D 16 £ 420 4 D 13 15 130 0. 594 43 15.093 135. 9 1.581 17. 2 1 640 15 209 15, 109 30. 2 D. 497 500 B. 567 167. 3 8.113 365. 4 3 634 2. 235 F 1 0 19 119 2 D 13 3 D 16 17.5 1 459 9. 994 4.40 115 2.715 323 2 1 750 1.552 195. 3 3, 213 1 230 0.554 15 190 15.095 151.0 60. 4 15.099 15 190 F\$ 190 15.099 125. \$ 1.551 45. 9 U 1 560 29 1.381 181.1 Ü 1 570 D 15 1536.2 D 16 1749.3 D 13 3798. 6 107AL TEISHT 18775.2

<u>B - 1</u>	LIN	N E													
RESS KO	REIS O (se) LENGTH NONINGL SUND L'SEIGHT RELIGHT REWARKS														
7.4															
1 1	0 22	5 640	3.042	61	17, 157	1 146.6									
2	•	3 092		51	9. 400	545. 2	Ĺ								
3	D 15	5 549	1.552	61	1.598	524.5									
	D 13	15 130	4.534	45	15.053	679. \$									
\$		9 100	1	1 1	3.045	18.1									
6		15 200	<del>-</del>	1	15, 103	10. 2									
7	•	500		61	0.457	30.3									
1		560		256	0.557	148.1									
	D 19	3 660	2. 235	113	1. 180	573.4									
f 1			0.554	61	1.411	86.1	_								
1	113	1 410		113	2. 216	323.2									
1	D 16	1 750	1.551	<del></del>	3, 111	195.9									
1	4 D t3 3 230 0.994 51 3.211 195.9 5 15 190 10 15.099 151.0														
<u> </u>															
- 6			ļ <u>.                               </u>	ļ — — i	<del></del>	226.5									
1		15 150		15	15.093	45.0	0								
		1 560		13	1.551	<b></b>	0								
9	9 # 1 579 # 116 1.561 181.1														
	5145. 1														
7.5															
1 1	D 21	6 020	3.042	61	18.313	1 117.1	1								
2	<del></del>	3 639		51	5. 450	545. 2	ί.								
3	D 16	5 \$20	1.552	F1	9.183	560.5	]								
4	D 13	15 190	9, 334	47	15.059	109. 1									
5	•	9 750	,	1	3.692	38. U									
1	-	15 200	,	1 1	15. 103	30. 2									
1	<del>                                     </del>	500		1 61	0.457	30. 3									
+i	<del>                                     </del>	550	<del></del>	295	0. \$57	164.3	~								
	0 15	3 630	1. 235	113	1.113	365.4									
F 1	D 13	3 440	0.534	61	1, 431	17.3	_								
	_		1.551	133	2 715	321.1	1								
<u> </u>	D 16	1 750	0.591	111	3. 211	195. 9									
1	D 13	3 230	V 231	10		151.0									
1 .	-	15 150		- "	15. 039										
		15 190	<del>                                     </del>	15	15, 039										
1-7		15 150	<del>                                     </del>	13			0								
1-	·	1 560	<u> </u>	+	<del>-</del>	181.1	0								
!	<u> </u>	1 \$10	1	1 111	1. 341	5431. 9	<u> </u>								
<b> </b>						2391.3									
<b> </b>				·	D 22	3254. 1									
<u> </u>					D 13										
<b> </b>	<del>_</del> _														
<u> </u>	D 18 1731.4 D 13 3172.8														
L		<u> </u>			0 13	2116. 6	<del>-</del>								
				<u>1</u>	OTAL TERGET	10697.1									
1															
$\vdash$															
1															
}	-														
L															

·			
APAN INTERNATIONAL COOPERATION AGENCY	CLI	ENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)	PRO	JECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STLDY TEAN	717	F ·	R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (17)
PACIFIC CONSULTANTS INTERNATIONAL	DAT		DVG NO.W-19
FUKUYANA CONSTUTANTS INTERNATIONAL	DAL	<u>'-</u>	

<u>A – L I N E</u> BEIS O (mm) LENGTH NORTHAL NEWS CREICHT REIGHT REMARKS 20.441 1 247.4 3 290 626.7 10. 274 6 620 1.352 15 199 9. 954 15.099 710.0 ---4 B 13 37.6 5. 393 15 280 15, 199 30. 1 6. 437 30.3 1 498, 7 4 140 3. 042 12.594 7 720 0.994 184.3 1.714 1 D 11 3. 331 397.1 L\_ 2 150 1.552 3 514 23, 715 261.3 -----15 190 0.594 75.5 6 0 13 256.7 ----15.093 15 190 56.5 D 1.968 228. 2 D 116 1 380 21.477 10.001 1 319.1 7 060 3.642 580. 5 3 290 4 954 1. \$52 10.786 15. 495 \$30.4 15 190 0.994 7. 703 15.6 7 830 15 760 15. 169 30. 2 325 200.5 9. 626 4 170 3.042 1. 730 105.5 (\*\*\* 6. 994 1 749 1.552 5, 541 233. 0 3 578 250. 9 6 D 13 15 190 15.033 D. 994 256.7 ----56.5 U 15. D59 15 190 1 560 12 L.3 () D 22 6768. 2 0 16 3727.6 D 13 3618.9 FOTAL BETCHT 13603.7

<u>B - 1</u>	B-LINE														
RELN NO.	50. Otes/ (21) TELGAT SANS C TELEGIT SETERIT SETERIT														
16			·				······								
1 )	D 22	1 580	3. C42	61	20.016	1 221.0	1								
1	•	3 290	•	51	10,003	\$80. \$	l								
	D 16	6 460	1.552	61	10.057	613.5	. Î								
	D 13	45 150	0. 994	51	15,099	770.0									
<u>``</u>		1 350	*****	1	8. 797	17.6	-								
<u> </u>		15 200		2	15, 103	39. 1									
		500		61	0.497	30. 3									
	•	610	,	195	0.656	178. B									
Fi	D 21	4 160	3. 042	119	12.655	1 505, 9									
		1 710	0. 554	61	1.700	103.7									
1	D 13		1.552	139	3, 337	337. 1	1								
	DII	2 150	1, 521		·	338.0									
4		3 570	ļ	61	5.541	260.3									
5	7	15 230	2 001	11	23.715	75. \$									
6	D 13	15 190	0.994	- \$	15.099										
7		15 190	*	17	15.093	156.7	Ü								
1	<u> </u>	1 340	•	23	1.948	56.5									
		1 350	•	116	1.368	128.3	<u> </u>								
						6666.5									
<del>                                     </del>															
17		6 920	3, 042	61	21.051	1 284.1	1								
1 1	D 11		3.016	t	10.008	580.5									
2		3 190		58		511.7	<u> </u>								
3	D 16	6 810	1,551	61	10.569	800. 2									
1	D 13	15 190	0.594	53	15. 093										
- 5	•	7 379		4	7. 326	29.3									
- 6	*	15 200		1	15, 183	30.2									
	-	500		61	0. 497	30.3									
8	*	620	,	325	0. 616	260.2									
FI	D 21	4 130	3.042	119	12, 563	1 495.0	- <u>-</u> -								
1	D 13	1 730	0.994	61	1.720	184.9	<u>,                                     </u>								
1	D 16	2 150	1.551	119	3, 137	397.1	L								
1		3 570	<u>'</u>	61	5.541	338.0	<b>├</b> ──								
5		15 289		111	23, 115	260.5									
- 6	D 13	15 192	0. 594	\$	IS. 093	75.5									
J		15 150	· · · · · · · · · · · · · · · · · · ·	17	15. 895	256.7									
8	,	1 360		25	1. 548	58.5	. 0								
. 5		1 380	·	116	1.968	221.3	0								
						6812.4									
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D 21 6667. 0															
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<b> </b>			-		0 13	3559.7									
7 17 107.1															
ļ	•			30	TAL TEICHT	13476.9									
	-														
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IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

JICA SILDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL
FUNCTURE OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (18)

DATE

DWG NO. W-20

<u>A – I</u>	. 1 1	<u>l E</u>												
NEIN NO.	φ (1 <b>2</b> )	(m)	SONIDAL BELGHT	MEMB	£ 151681	THPEST	RENATES							
T 1	D 25	7 450	3. 973	it.	29. 758	1 \$15, 1								
1	•	4 690		51	18.633	1 089.7	(							
3	0 16	7 330	1.552	11	11.376	£33. 9								
	0 13	15 190 5 410	0.594	62	15.099 9,354	936. I 18. 7								
5		15 200	-	1	15.109	30. 2								
7		500	•	61	0. 497	30. 2								
8		650	•	354	0. 646	228. 1								
F	D 25	4 760	3. 373	119	1, 775	1 250.4 . 108.5								
	D 13	1 790 2 250	1, 552	115	3, 492	415. \$	L_							
	•	4 070		<b>£</b> 1	\$, \$17	385. 3								
5	,	15 280	•	18	23. T15	214. 6								
1	D 13	35 190	0. 994	18	15. 099 15. 099	75. 5 271. 8								
7 8	-	15 190 2 160	<del></del>	29	2.147	62.3	O							
9	•	2 180		115	2.167	314. 2	O							
						9001.9								
<u> </u>														
	10 10 10 10 10 10 10 10 10 10 10 10 10 1													
2	<del></del>	4 698		5.0	18, 633	1 680.3	1							
3	D 16	7 600	1.551	<b>61</b>	11.795	719.5								
4	D 11	15 150 10 820	0.994	1	15. 995 10. 755	966.3 21.5								
	-	15 200		1	15, 185	30. 2								
1	•	500		61	0.437	30. 3								
	,	678		354	0. 666	135. 8	·ŧ							
Fi	D 25	4 740	3, 973 e, 994	115 61	18.832	2 241. 0								
3	D 13	2 250	1.552	113	3. 492	415. \$	<del> </del>							
1	•	4 070		61	6.317	385, 3								
5	•	15 280		17	23.715	284.6								
1	D 13	15 199 15 190	4.994	18	15. 099 15. 099	75. 5 271. 1								
<del> </del>	<del>-</del> -	2 160	<del> </del>	29	1.147	62.3								
- 5		2 180		145	2, 167	314.2	Ü							
<u> </u>	<u> </u>					3124. 8								
1 10		<del></del>			-		···							
1 1	D 25	8 030	3. 573	61	31.903	1 346.1	1							
2		4 650	•	\$8	18. 633	· · · · · · · · · · · · · · · · · · ·	<del>-</del>							
3	D 36			66	12, 214									
- 4	D 13	15 19B	0. 994	2		1								
	•	15 200		2	<del> </del>	30. 1	!							
1	•	500	-	61	<del> </del>		- <del></del>							
8	D 25	4 720	3.573	384	·		<b>`</b>							
F 1	D 25	<del></del>	0.994	113	· · · · · ·	1								
3	D 16		1.552	113		1 (15. 5								
	-	4 070	•	61	<del></del>	<del></del>								
5	0 13	15 280 15 190	0.591	12	<del></del>									
7	013	15 150	<del></del>	1	<b></b>	<del></del> -	- <b>i</b>							
8	-	1 150	+	29		62.	) D							
5	•	2 120	,	145	2. 16									
				··		5261.	<u> </u>							
-					D 2	5 15607.	,							
	D 16 S414.7													
<b>}</b>			· · · · · · · · · · · · · · · · · · ·		- D 1	\$ 6165.5	<u> </u>							
					DIAL VEIGE	7 27356.	1							

<u>B - I</u>	11	<u> 1 E</u>												
IEIS NO.	<b>(11)</b>	teneth (sa)	SONINAL	NUNB	TERFER T	119132	RENDRES							
1 8			<u> </u>											
8 1	Ď 25	7 389	3, 913	<b>i</b> 1	25. 321	i 188. 6	1							
1		4 699	1 (()	58 61	18, 633 11, 121	1 880. T								
	D 16	7 230 15 150	1, \$51 0, 994	- 17	15. 099	936.1								
;	-	4 210	#1.441	1	4. 135	8.4								
- 1	,	15 200	•	1	15. t05	39. 2								
1	·	500	,	n	9, 497	30. 3								
	•	640		354	8.636	225.1								
F 1	D 25	4 770 1 790	3. 973 0. 554	119	18.951 3.779	111.5	r- ·							
1 3	9 16	1 250	1.552	113	3.452	415.5	L.,							
1		4 97#		f1	6.317	345.3								
5	•	15 260		12	23, 715	284, 6								
- 6	D 13	15 190	0.554	5	15.093	75.5								
7		15 190		75	25.055 2.147	\$71. \$ \$2. 3	Ü							
3	-	2 160	<del>;</del>	145	2.167	\$14.2	Ü							
<b> </b> -				1		8956. <b>3</b>								
1 3				T	90 474	1 858. 9	ri							
7 1	1 - 4 590 - 58 18. 533 1 880. 7 1													
1	D 16	7 520	1.553	1 41	11.671	711.9	<del>                                     </del>							
+	D 13	15 190	0.394	64	15, 099	956. 1								
5	•	5 540	•	1	5. 904	0.1								
[ [	,	15 200		1	15, 185	30.1								
-	-	500		354	0.497 0.656	39.3 231.2								
F 1	D 25	4 750	3. 973	119	13, 872	1 245.3	<del>  -,</del>							
1	D 13	1 810	0. 994	111	1, 155	169.7	r							
<b>—</b>	D 16	2 250	1.552	113	3, 492	415.5	L							
1	•	4 410	•	61	6.317	385.3								
5		15 260		12	23, 7t5 15, 695	284. 6 75. 5								
- 6	3 13	15 19D 15 19D	0.394	11	15.093	<del> </del> -								
1	-	2 160	•	23		- <del></del>	Ü							
,	•	2 120	•	145	2.117		U							
						9037. D								
<b>}</b>														
111	)   B 25	7 940	2.973	\$1	31.56	6 924, 3	Π							
1		1 650	•	58		1								
3	D 16	1 785	1. \$52	61										
4	Ð 13	<del></del>		66	<del></del>									
5	<del>  '</del>	6 540		<del>                                     </del>										
7		15 200 500	<del>  :</del> -	61										
	+	860	+	384										
FI	D 25			119	+		<del> </del> -							
1	<del></del>	+		51		<del></del>								
3			1. 552	115										
-4		4 979		13										
-				5										
1	+	15 190		11										
	•	2 148		29										
_ 9	1.	2 150	<u> </u>	145	1.167									
9128. 7														
<b> </b>	B 25 15551. I													
	D 16 S389. 1													
	-				0 11	6114.1	<u> </u>							
			<del> </del>	· · · · ,	10741 85450	57988	<del></del> _							
		<del></del> _			TOTAL DEEGR	27244. 1	<u> </u>							
L			<del></del>											

IAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

A-LINE NEIN O (as) LENGTH NORINAL MAS CREICHS RESCHED BENALTS 1 455.4 25. 851 5 110 1 130.2 \$ 750 2 235 18.528 1 441.8 4 D 13 65 15.059 15 150 0.554 13, 190 13 174 30. 2 15, 103 271. 1 710 5 070 3.373 29.143 113 126. 1 1 080 0.994 1.068 3.858 2 550 ). SS2 413.7 6.711 4 374 15 280 75. 5 15. 699 0.554 15.098 781.9 15 190 2. 346 136.1 2 360 343.1 2 380 D 29 4110. t D 25 2397. 0 D 15 (130. 2 D 16 1193. 0 0 13 2367.5 TOTAL TELGAT 11197.4

NOTES:

REIN	B-LINE														
NO.	NO.   Car)   SEIGHT SEAS   C PERSON   C PERS														
T II															
11	D 15	\$ 270	\$. 059	- 11	42, 344	2 583.0	l								
1		\$ 110	•	58	25 851	1 459.4	1								
3	D 19	1 200	2. 235	61	18.327	1 117. 9	J								
	D 12	15 190	0. 354	69	15.095	1 043.8									
5	,	7 950	,	1	7. 902	15.1									
- 6		15 200	30. 2												
1	*	500	90.3	5											
8	8 - 700 - 355 0.636 267.3														
FI	D 25	5 GED	3, 171	- 113	20.133	2 401.8									
2	D 13	1 030	0. 994	- 1	7.054	126. t	r								
3	0 16	2 550	1.552	119	3. 958	471.0	L.								
4	,	4 379	,	51	6. 182	413.7									
5		15 240		13	23, 715	308. 3									
•	0 13	i\$ 110	0.994	5	15.099	75. 5									
7	•	15 134		19	15. B99	186. 9									
*	•	2 360	•	58	- 1.346	136. 1	U_U								
9	•	1 380	,	145	2.366	343.1	O								
						11148. 2									
	_				D 25	4082. 4									
					D 25	240t. B									
					Dis	1117. 9									
					D 16	1153.0									
					- <b>D</b> 13	2353. 1									
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				ī	DIAL TEIGHT	11148, 2									
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IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

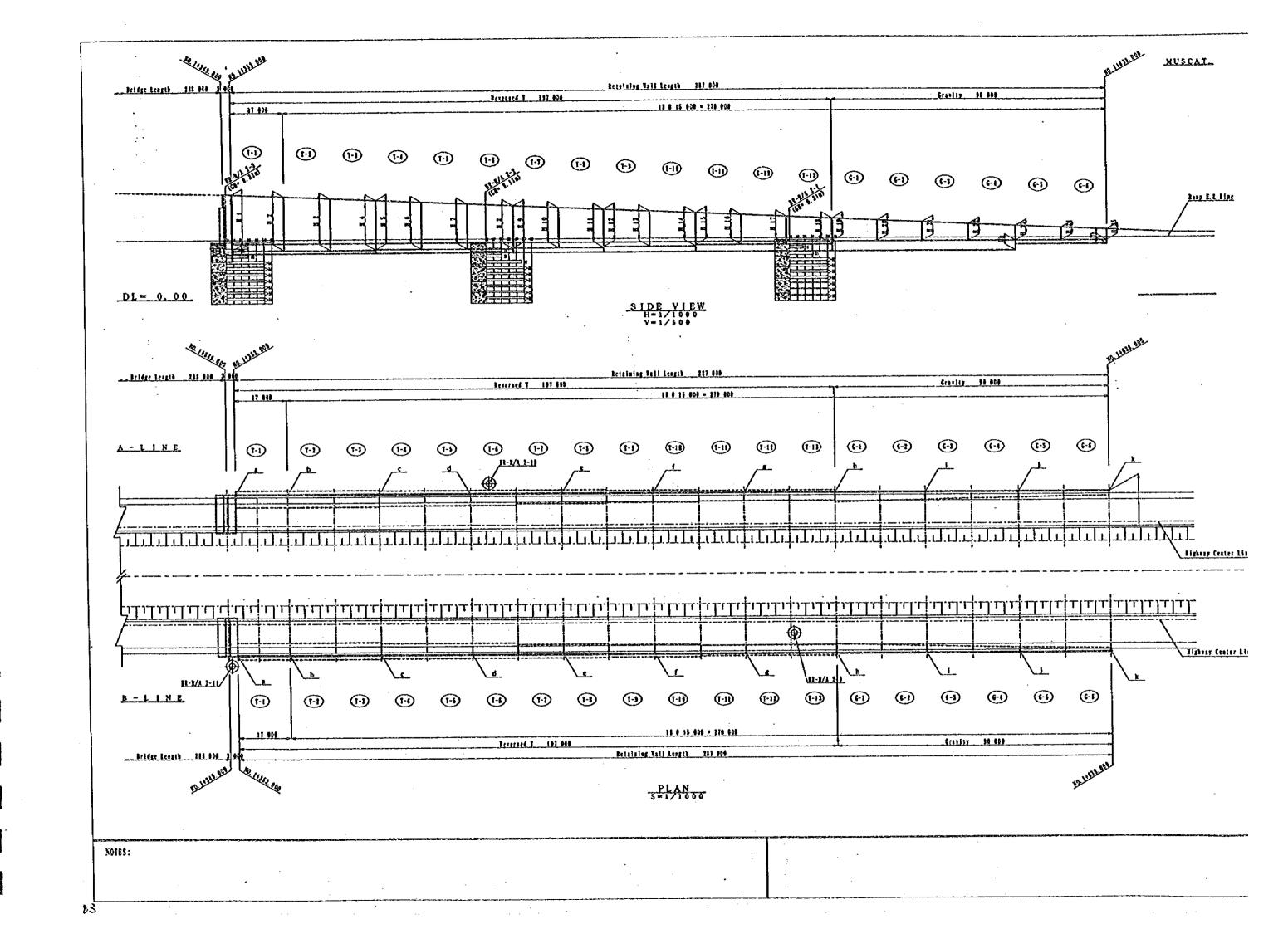
PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

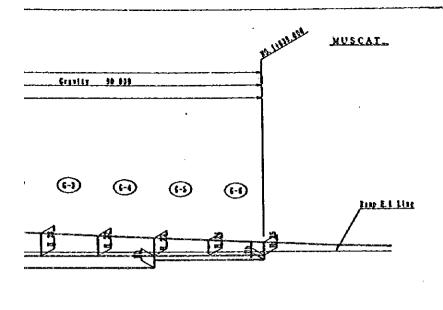
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

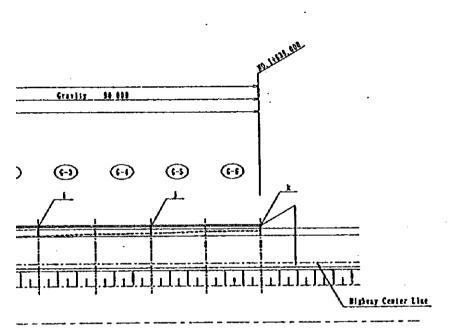
TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (20)

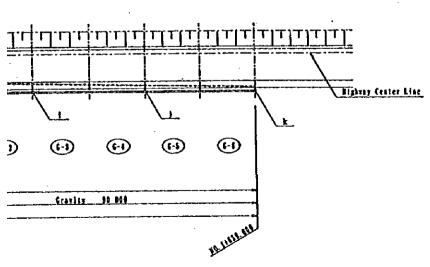
PACIFIC CONSCUTANTS INTERNATIONAL
FERLYAMA CONSULTANTS INTERNATIONAL
DATE

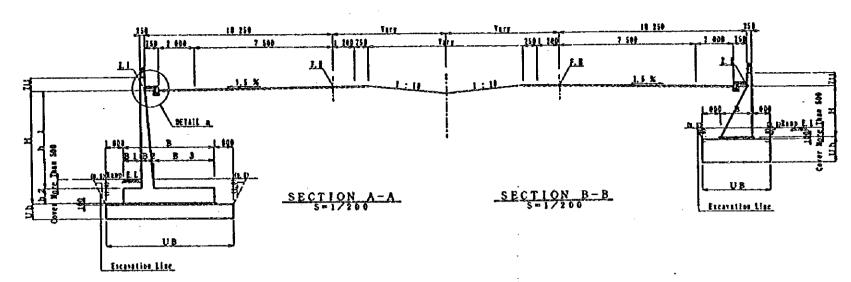
DATE





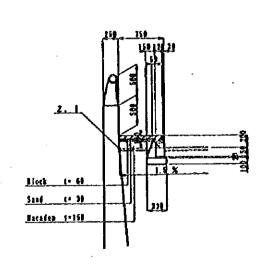






NARK	Re	v e	rsed T	<u> </u>														
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T-5	I A	7-4	628 000		000	1	000	5 000	1	000	ļ	800	3	500	Į	600	7	000
T-4	1		6-7 686	6	686					-		775			l			
L   1-1   1-6   96   1   5   04   1   90   4   50   1   00   6   7   2   8   3   7   0   6   5   0   1   1   1   1   1   1   1   1   1	' '	_	1-7 372	6	372				ŀ		<u></u>	751			Į		ĺ	
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N   1-9   11-6 183   5 483   700   4 000   800   612   2 588   900   5 000	١,		11-6 6 B 3	5	783			<b> </b>			ļ	677	2	823	1		ŀ	
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E	l N	<del>                                     </del>	11-5 8 5 7	5	157	1					<u> </u>				ļ			
T-II	10	1-10	14=5 4 2 1		721	<u> </u>			<u> </u>	<del></del>	<u> </u>							
T-12	C	7-11	15-5 221	<u> </u>		Į.	5 Q Q	3 5 0 0		600	L				1	100	5	500
T-13	1	7.17	15-4 783		283	į			•		<u> </u>		1—		į		l	
T-1   P1=8 886   7 785   1 100   5 500   1 200   881   3 409   500   7 500   1-7   1 2 3 4 4 8 8 8 6   7 2 5 6   1 2 4 8 8 8 6   7 2 5 6   1 2 4 8 8 8 6   7 2 5 6   8 2 5   3 4 7 5   8 8 7 8 8 8 6   7 2 5 6   8 2 5   3 4 7 5   8 8 7 8 8 8 6   9 8 8   1 0 0 0   5 0 0 0   1 0 0 0   7 9 9   3 2 0 1   6 0 0   7 0 0 0   1 2 2 3 2 7 8   1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			17-4 217	1.3	717	]			Ì		<u> </u>				4		l	
T		1-11	11-3 984						ļ		<u> </u>	Mark Market	_					
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I 7-8 11-6 143 5 243 700 4 000 800 596 2 604 900 6 000 1-10 11-5 540 4 840 700 3 500 596 2 604 900 6 000 1-10 11-5 540 4 840 700 3 500 596 2 604 900 6 000 1-10 11-4 903 4 403 500 3 500 600 495 2 405 1 100 5 500 1-11 11-4 466 3 966 470 2 430 448 2 452	15	1- 7	9-8 904	<u>}</u>		4	900	4 5 0 0	1	000	<u> </u>		-		4	700	•	500
N 1-9 12-5 943 5 243 700 4 000 800 596 2 604 900 6 000 570 2 630 570 2 630 511 2 659 111 11 11 11 11 11 11 11 11 11 11 11 1	1 7	<u> </u>		] 4	646	ţ		ı	ı		J		<del></del>		4		1	
N	1 4	7- 1	11-6 143	J;	243	٦_,		<u> </u>				دبضمي	4				<u></u>	
E 1-10 15-4 103 4 403 500 3 500 600 495 2 405 1 100 5 500 1-11 15-4 965 3 966 470 2 430 448 2 452	l N	1- 1	11-5 9 4 3	<u></u>		4	700	4 0 0 0	1	800	ļ		4		4	800	6	000
E 1-11 15-4 903 4 403 500 3 500 600 495 2 405 1 100 5 500 1-12 17-4 065 3 565 448 2 452	1"			] (	840	1		1 -	1		<u> </u>				Į.			
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DETAIL S-1/60

JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF CONMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAM	TITLE :	R/A-2, A' MASEEN GARDEN GENERAL VIEW FOR WALL (2)-1
PACIFIC CONSULTANTS INTERNATIONAL FURUYAMA CONSULTANTS INTERNATIONAL	DATE	DYC NO. W-23
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NOTES:

JAPAN INTERNATIONAL COOPERATION ACENCY

(J1CA)

FROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: R/A-2, A' NASEEN GARDEN GENERAL VIEW FOR WALL (2)-2

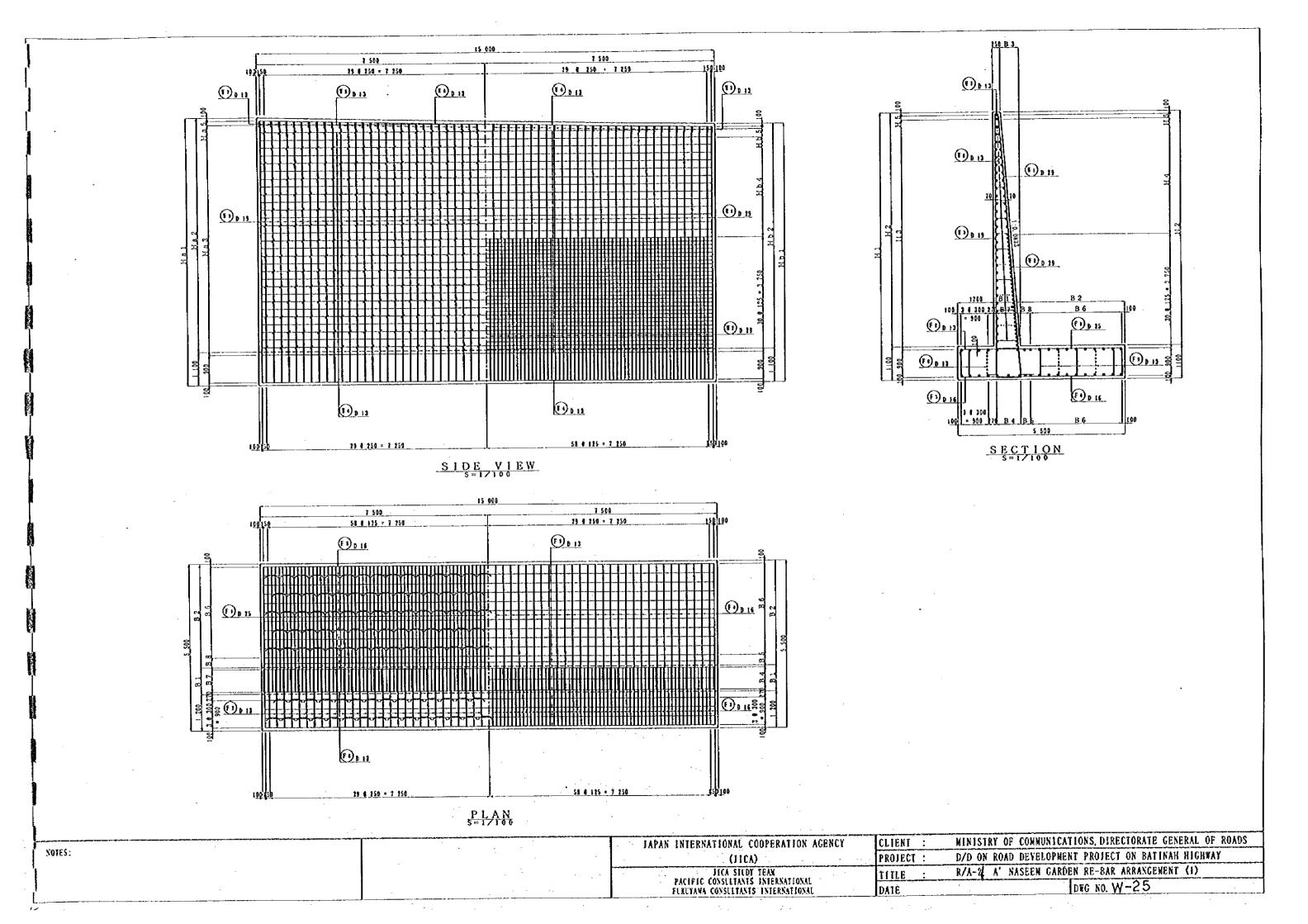
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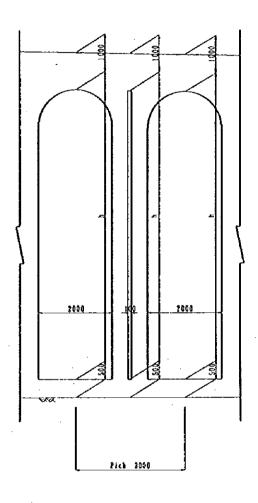
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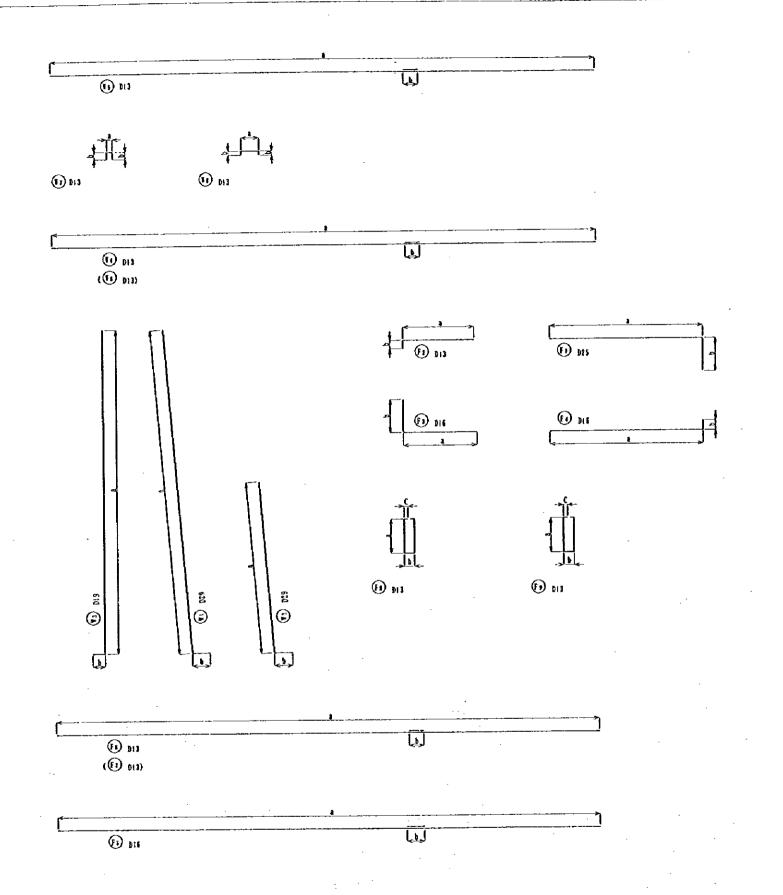


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Slil Shape in Front of Wall (Thickness 1-30 mg)

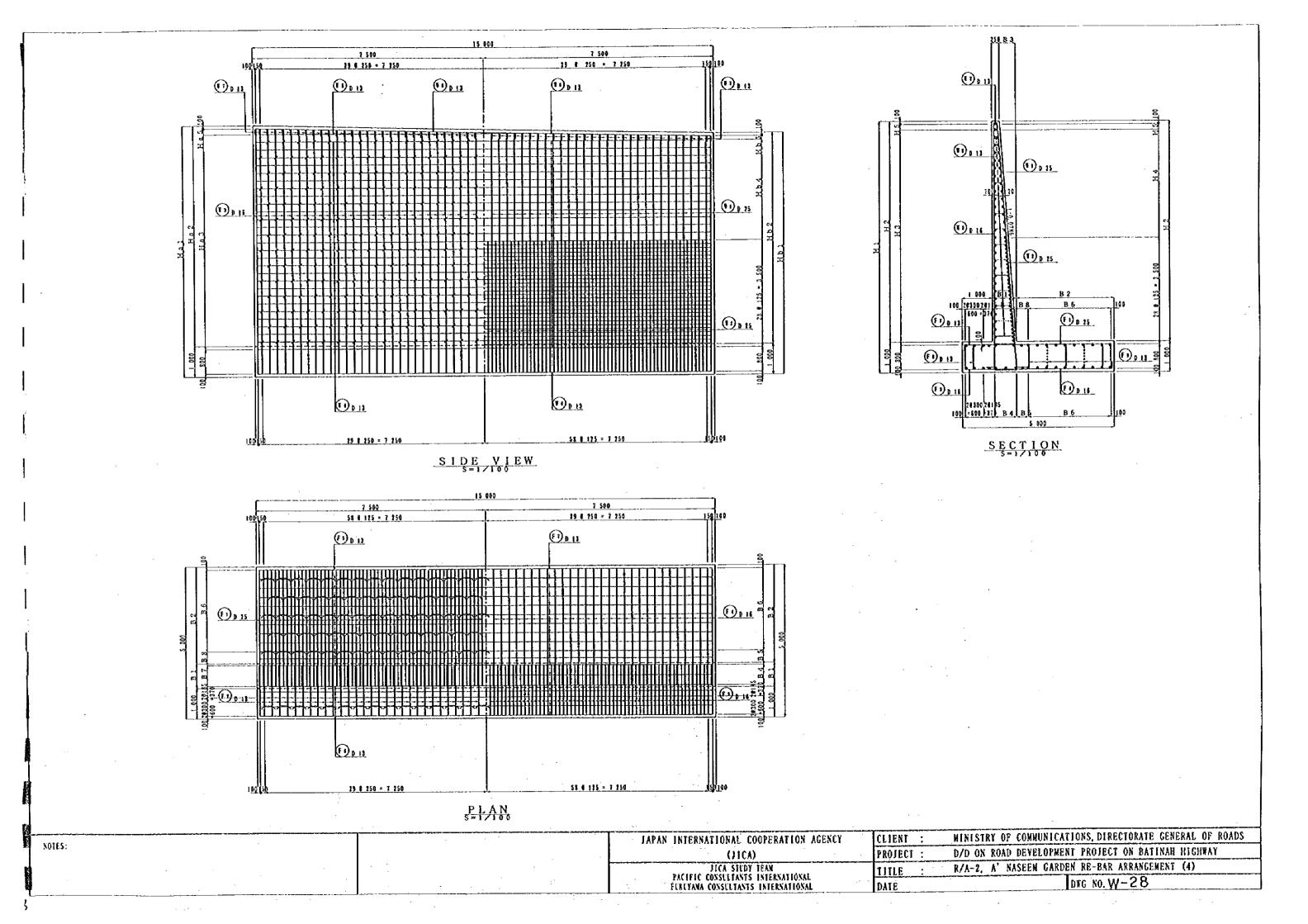
F	NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
		(TICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
ı	1	JICA SIVOY JEAN PACIFIC CONSULTANTS INTERNATIONAL	TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (2)
ļ		FUKUYAYA CONSULTANIS INTERNATIONAL	DATE DAG NO. W-26



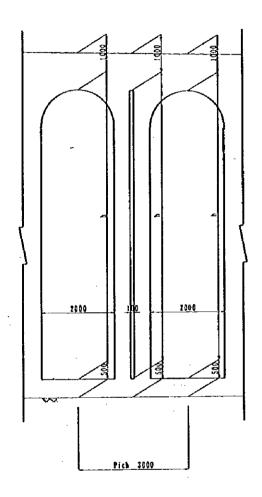
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		ALLOS OF COMMUNICATIONS DIDECTORIES OF SOLID
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
LICA STEDY TEAN	TITLE :	R/A-2, A' NASEEN GARDEN RE-BAR ARRANGEMENT (3)
PACIFIC CONSULTANTS INTERNATIONAL FUKUTAMA CONSULTANTS INTERNATIONAL	DATE	DNG NO. W-27

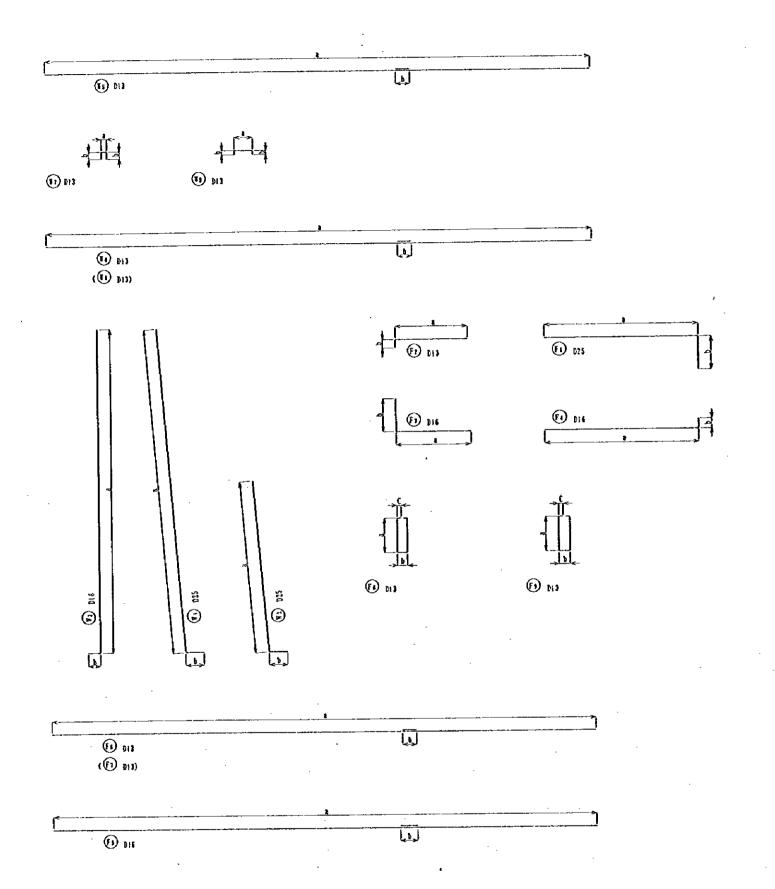


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Е	B a 4	2@365.5 = 731	B b 4	28353	Ba4	20353 = 706	8 b 4	20341 = 682	Ba 4	20341 = 682	B b 4	20326.5
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I L I N	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3 Ba 4	a - a  7 988  6 988  270250  = 6 750  130250  = 3 250  238  799  3 201  549  20365  = 730  20200  - 400  90300  = 2 700	Hb1 Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	7 6 7 5 6 6 7 5 2 6 0 2 5 0 = 6 5 0 0 1 2 0 2 5 0 = 3 0 0 0 1 7 5 7 7 4 3 2 2 6 5 2 4 2 0 3 5 2 . 5 = 7 0 5 2 0 2 1 2 . 5 9 0 3 0 0	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2 Ba3 Ba4	a - a  7 675 6 675 26@250 = 6 500 12@250 = 3 000 175 774 3 226 524 2@352.5 = 705 2@212.5 = 425 9@300	Hb1 Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4 Bb5	7 361 6 361 2 5 0 2 5 0 = 6 2 5 0 1 1 0 2 5 0 = 2 7 5 0 1 1 1 1 7 5 0 3 2 5 0 5 0 0 2 0 3 4 0 5 = 6 8 1 2 0 2 2 4 5 = 4 4 9 9 0 3 0 0	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3 Ba 4	a - a  7 361  6 361  2 5 8 2 5 0  1 1 8 2 5 0  2 7 5 0  1 1 1  7 5 0  3 2 5 0  5 0 0  2 8 3 4 0 . 5  = 6 8 1  2 8 2 2 4 . 5  = 4 4 9  9 8 3 0 0  2 7 0 0  6 1 8	Hb1 Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	7 004 6 004 240250 = 6 000 100250 = 2 500 4 722 3 278 472 20326.5 = 653 20238.5 = 477 90300 = 2 700
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Stit Shape in Front of Wall (Thickness 1-30 mm)

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*05C3		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NOTES:		(ASII)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAN	TITLE :	R/A-2, A' NASEEN GARDEN RE-BAR ARRANGEMENT (5)
	•	PACIFIC CONSULTANTS INTERNATIONAL FUNUYAWA CONSULTANTS INTERNATIONAL	DATE	DNG NO. W-29

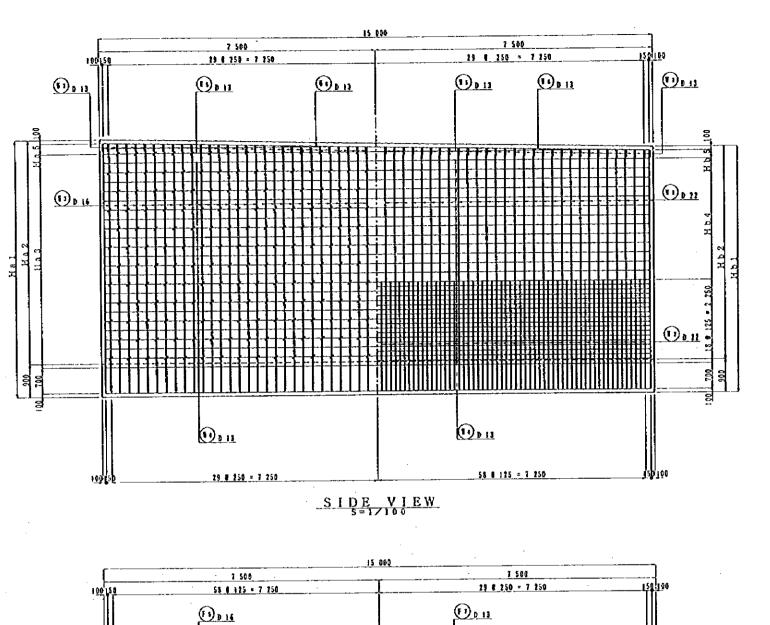


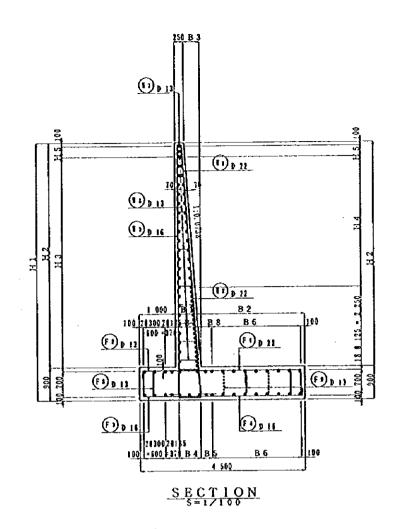
SOTES:

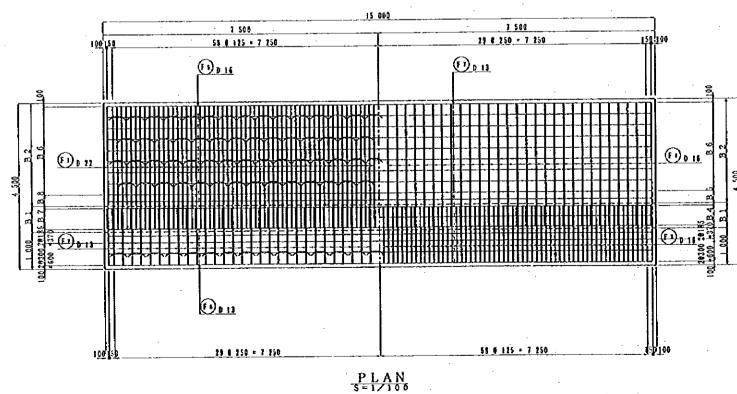
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_6	•	15 200	14 803	390	
1		500	110	195	
6	•	670	682~210	111	
	D 25	4 720	3 512	600	
1	D 13	1 640	1 638	355	
1	D 16	2 250	1 450	699	
d		4 579	3 830	240	
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-	D 13	15 190	14 800	390	
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1		4 690	4 313	375	L
3	D 16	7 570	7 485~7 172	240	
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4	•	4 9 7 9	3 830	240	
5	<b>.</b> _	15 280	14 800	450	
•	9 13	15 198	14 800	399	
7	,	15 190	14 800	395	<u>                                      </u>
ı	•	2 160	\$28	213	101
3	•	2 180	834	268	111
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7 6					
	D 25	7 390	7 194~6 834	375	
	D 23	4 690	4 313	375	<u> </u>
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3	D 15	7 249	1 173~6 113	240	
{	D 13	15 190	14 860	390	<del> </del> -
5		\$ 100	\$ 097		<del></del>
í		15 200	14 804	390	
1	•	500	110	195	<u> </u>
ı	•	640	633~200	111	
FI	D 25	4 779	3 961	800	
1	0 13	1 790	1 583	195	·
3		2 250	1 450	800	
- 4	7 19	4 070	3 130	240	
	<b>!-</b> -		14 800	480	
5	_	15 280	<del></del>	·	<del> </del> -
- 6	D 13	15 190	14 800	390	ļ <del></del>
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1	<u>.</u>	2 160	828	279	111
3		2 180	£34	268	111

D 25	(\$1)		<u> </u>	
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	8 030	7 812~1 498	175	
	<b>6 690</b>	4 313	375	
D 16	7 880	1 183~1 475	- 248	
D t3	15 190		3:0	
	31 410	11 406		
	15 200	14 803	350	
•	500	110	195	
	670	681~269	113	
9 25	4 720	3 513	600	
0 13	1 240	1 637	195	
0 15		1 450	300	
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	2 189	B34	188	111
D 25	7 724	1 458~7 183		
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D 16	7 580	7 475~7 161	240	
D 13	15 19D	84 B00	390	
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,	2 150	872	279	111
	3 180	834	288	111
	J			
	D 25 P 16 P 13 P 16 P 17 P 18	# 11 410 # 15 200 # 500 # 670 D 25 4 720 D 13 1 140 D 14 2 250 # 4 070 # 15 280 D 13 15 190 # 2 180  D 25 7 720 # 4 659 D 16 7 560 D 13 15 190 # 15 200 # 2 250 #	* 11 410 11 404  * 15 200 14 803  * 500 110  * 670 681~269  D 25 4 720 2 913  D 13 1 840 1 637  D 14 2 250 4 450  * 4 070 3 830  * 15 190 14 800  * 2 160 828  * 4 639 4 313  D 16 7 560 7 455~7 161  D 13 15 190 14 800  * 8 360 8 360  * 15 200 14 803  * 15 200 14 803  * 15 190 14 800  * 2 180 8 360  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 250 1 450  D 13 15 190 14 800  D 13 15 190 14 800  D 13 15 190 14 800  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 803  * 15 200 14 804  D 13 15 190 14 800  D 13 15 190 14 800  D 13 15 190 14 800  D 25 4 770 3 361  D 15 250 14 800  D 13 15 190 14 800	* 11 410 11 404

JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(IICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STEDY TEAN	TITLE : R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (6)
PACIFIC CONSULTANTS INTERNATIONAL FUNCTIONAL CONSULTANTS INTERNATIONAL	DATE DAG NO. W-30







JAPAN INTERNATIONAL COOPERATION AGENCY

(J1CA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

PACIFIC CONSULTANTS INTERNATIONAL
FUNCTIONAL CONSULTANTS INTERNATIONAL

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

DICA SILDY JEAN

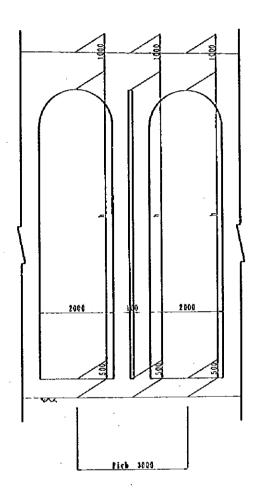
PACIFIC CONSULTANTS INTERNATIONAL

DATE

DATE

DATE

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L	H a 5	20131.5 = 263	Нь5	154	На5	154	Н Б 5	2	
l -	Bai	694	Bbi	667	Bal	667	B b 1	637	
	Ва2	2 8 0 6	B b 2	2833	Baz	2833	B b 2	2863	
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E	B a 4	2@306 ≈ 612	В ъ 4	20293 = 586	Ba4	20293 = 586	B b 4	20278 = 556	
ļ	B a 5	20159 = 318	B b 5	20172	Ba5	20172 = 344	B b 5	20187 = 374	
1	8 8 6	8@300 = 2 400	866	80300 = 2400	B a 6	80300 = 2400	8 b 6	8 Ø 3 0 0 = 2 4 0 0	
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1	H a 4	14@250 = 3 500	H b 4	130250	Ha4	13@250 ≈ 3 250	НЬ4	110250 = 2750	
L	На5	20127 = 254	нь5	146	Ha5	146	нь5	2 4 3	
l _	Ba1	693	8 b 1	6 6 7	8 a 1	667	В b 1	637	
	Ва2	2807	B b 2	2 8 3 3	Ba2	2 8 3 3	В Ъ 2	2 8 6 3	
N	2 a 3	443	ВЬЗ	417	Ba3	417	B b 3	387	
Е	B a 4	2 @ 3 0 6 = 6 1 2	В Ь 4	2 @ 2 9 2. 5 = 5 8 5	B a 4	20292.5 = 585	B & 4	20277.5	
	B a 5	2 @ 1 5 9 == 3 1 8	В Ь 5	2 @ 1 7 2. 5 = 3 4 5	Ba5	20172.5 = 345	В ъ 5	20187.5. = 375	
	B a 6	80300 = 2400	B b 6	8@300 = 2 400	Ba6	80300 = 2400	B b 6	86300 = 2400	
	8 a 7	560	B b 7	5 3 4	B a 7	t	B b 7	504	
<u></u>	B a 8	20185 = 370	Въ 8	20198 = 396	Ba8	20198 = 396	B b 8	2 @ 2 1 3 = 4 2 6	



Slit Shape in Front of Wall (Thickness 1=30 mm)

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

PACIFIC CONSULTANTS INTERNATIONAL
FIREVANA CONSULTANTS INTERNATIONAL
DATE

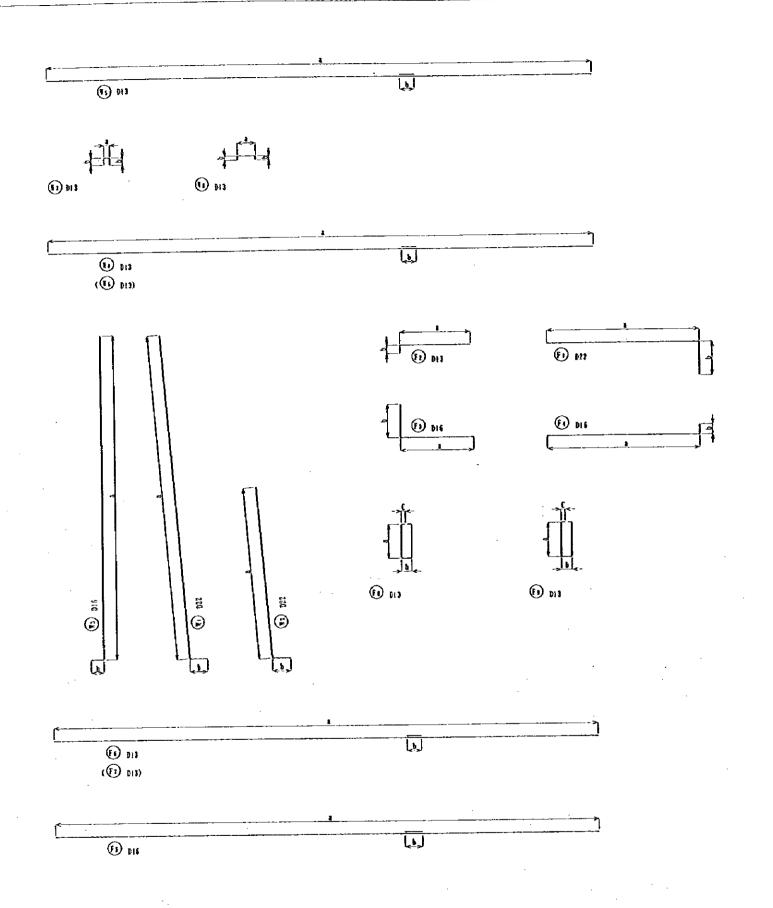
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: R/A-2, A' NASEEN GARDEN RE-BAR ARRANGEMENT (8)

DATE

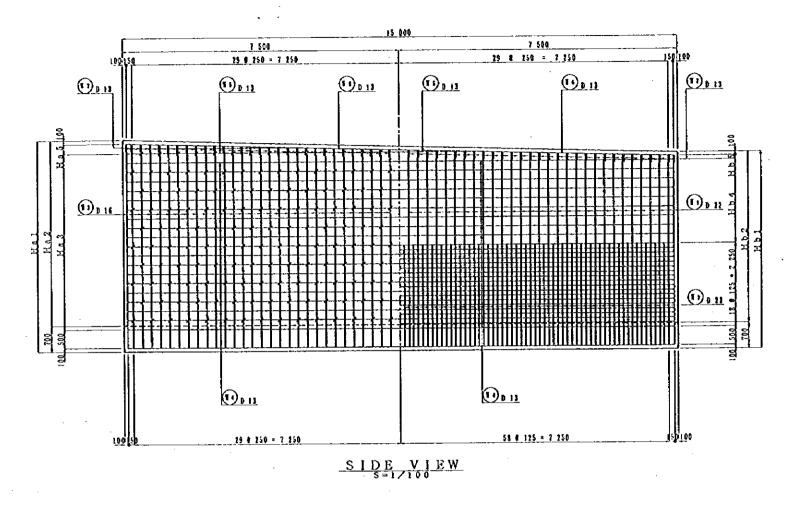
DATE

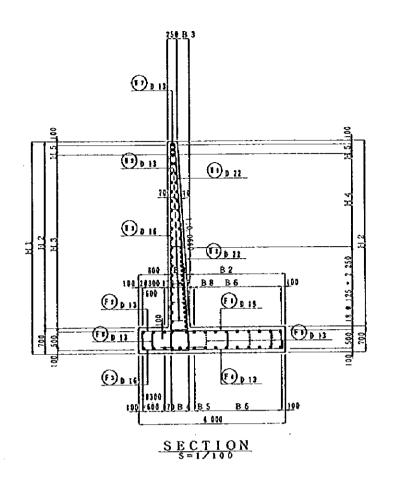


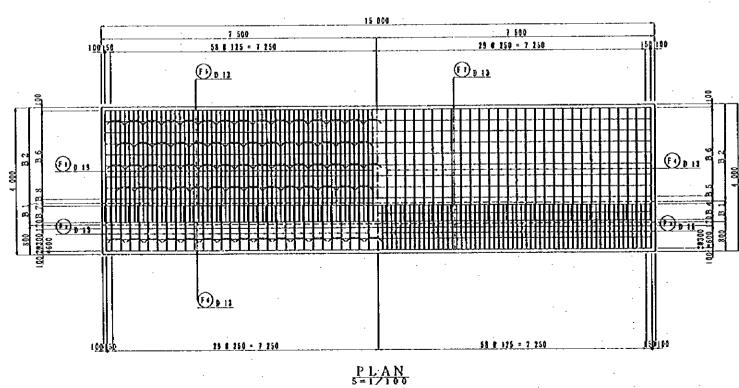
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_	1	•	3 290	2 951	334	
	7	D-16	6 780	6 713~6 354	240	
	7	D 13	15 199	14 800	390	
	5	•	8 250	5 494-10 985		
	Ť		12 500	14 804	350	
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	8		620	575~206	111	
F	ī	D 22	4 136	3 429	700	
Ė	2	D 13	1 730	1 531	195	
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ŀ	÷	-	1 290	1 558	330	
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T	D 22	6 880	6 722~6 353	330			
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3	0 16	6 770	6 704~6 346	249			
4	D 13	15 190	14 E00	390			
5	•	7 990	5 321~10 642		` <del></del>		
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7	,	560	110	195			
	-	\$20	571~265	111			
Fi	D 22	4 130	3 436	700			
1	D 13	1 730	1 530	135			
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<del>.</del>	,	3 570	3 330	243			
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	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NOTES:	(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
·	TICA STUDY TEAN	TITLE: R/A-2. A' NASEEM GARDEN RE-BAR ARRANGEMENT (9)
	PACIPIC CONSULTANTS INTERNATIONAL FEBRUARY CONSULTANTS INTERNATIONAL	DATE DAG NO. W - 33







JAPAN INTERNATIONAL COOPERATION AGENCY

(JECA)

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

PACIFIC CONSULTANTS INTERNATIONAL
FUKUYANA CONSULTANTS INTERNATIONAL
DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

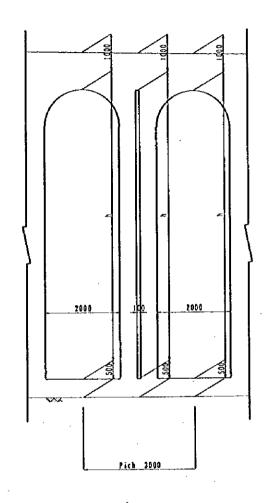
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (10)

DATE

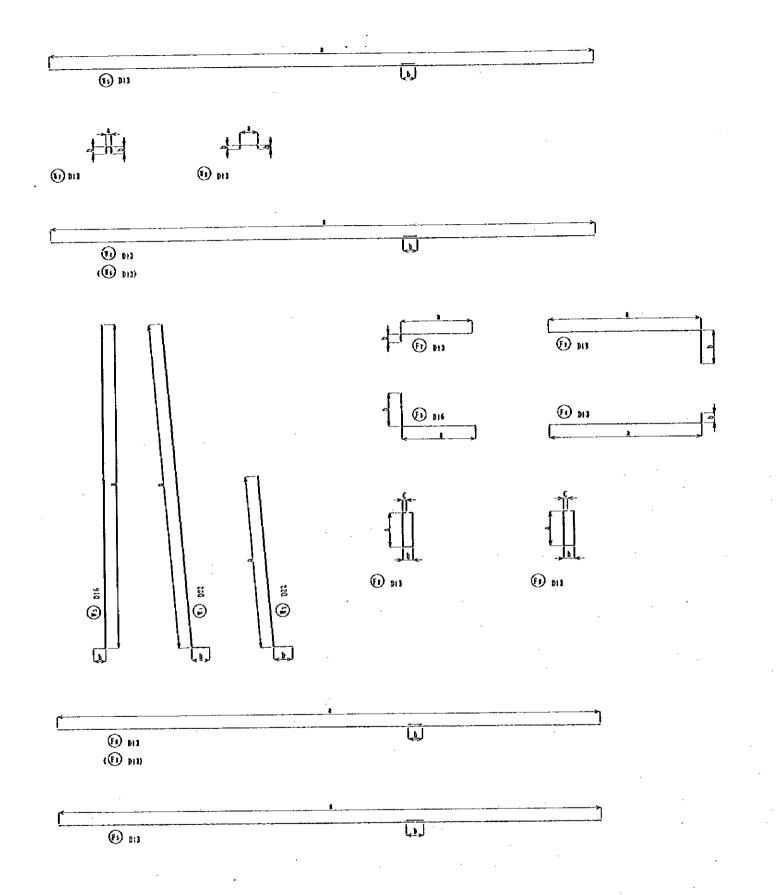
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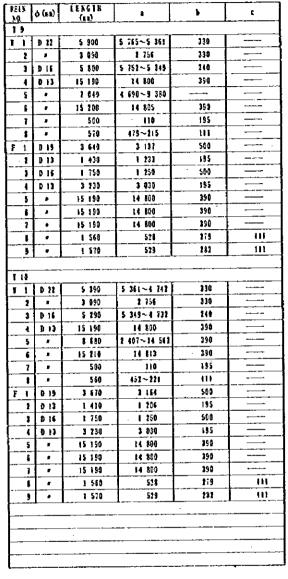
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	H a 2	5 2 5 2	НЬ2	4 8 4 9	He 2	4 8 4 9	<b>∦ъ2</b>	4 2 3 2
Α	Ha3	200250	ньз	190250	Ha 3	190250 = 4750	нь з	160250 = 4000
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E	Ba4	20248	B b 4	20234.5	Ba4	20234.5	В Ь 4	20214 = 428
-	Ba5	134	B b 5	161	Ba5	161	B b 5	202
	Ba6	80300 = 2400	BbG	8@300 == 2 400	8 a 6	80300 = 2400	B b 6	89300 = 2 400
1	Ba7	463	B b 7	4 3 6	Ba7	4 3 6	B b 7	3 9 5
	B a 8	167	В b 8	194	Ba8	194	в ъ 8	235
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В	Hz3	200250	H b 3	198250	На 3	190250	ньз	$   \begin{array}{r}     170250 \\     = 4250   \end{array} $
l	Ha 4	110250	Hb 4	100250 = 2500	Ha4	100250	нь4	8 <b>8</b> 2 5 0 = 2 0 0 0
L	Ha 5	2 4 3	Н Б 5	9 0	Ha 5	9.0	H 6 5	153
	Bal	596	8 b 1	570	Bal	570	В Б 1	541
I	Ba2	2 6 0 4	B b 2	2 6 3 0	B # 2	2 6 3 0	В Ь 2	2 6 5 9
N	Ba3	346	въз		ВаЗ	3 2 0	В <b>b 3</b>	291
E	Ba4	2@247.5 = 495	B b 4	20234.5 = 469	B a 4	2 0 2 3 4 . 5 = 4 6 9	B b 4	2 @ 2 2 0 = 4 4 0
	Ba5	135	8 b 5	161	Ba 5	161	8 b 5	190
	Ba6	8 6 3 0 0 = 2 4 0 0	В Б 6	86300 = 2400	Ba6	8 @ 3 0 0 = 2 4 0 0	В Ь 6	80300 = 2400
	Ba7	462	В Б 7		Ba7	4 3 6	В Б 7	407
	Ba8	168	B b 8	194	Вав	194	В в 8	223



Slit Shape in Front of Wall (Thickness 1=30 mm)

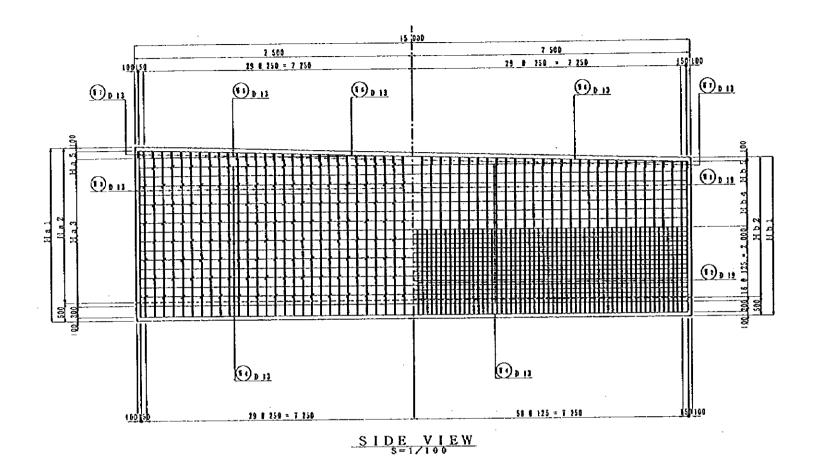
 JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT	:	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
 (IICA)	PROJECT	:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
 JICA SILDY TEAY	TITLE		R/A-2, A' NASEEN GARDEN RE-BAR ARRANGEMENT (11)
PACIFIC CONSULTANTS INTERNATIONAL FLAUVAVA CONSULTANTS INTERNATIONAL	DATE		DTC NO.W-35

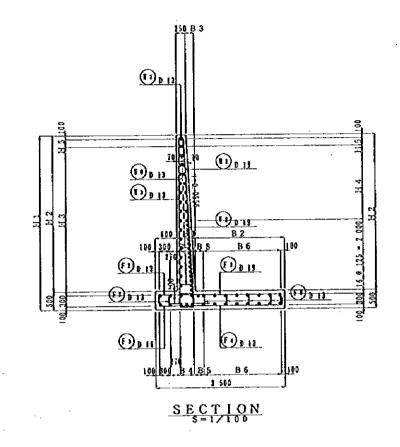


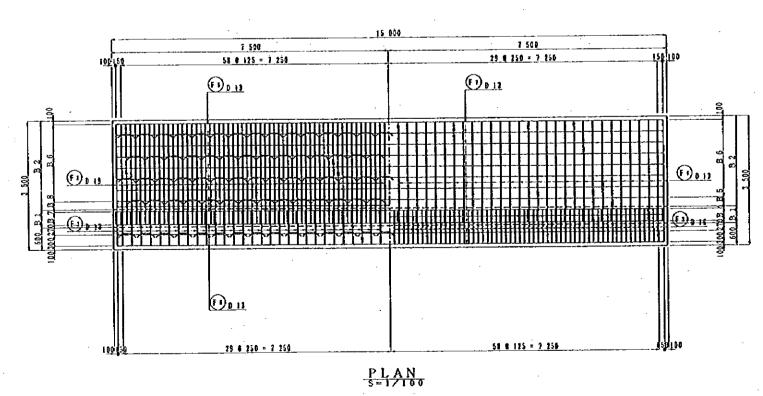


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2	,	3 090	2 756	330	
3	D 35	5 790	\$ 743~5 340	240	
4	D 13	15 490	14 803	350	
5		9 060	5 0¢5		
	-	15 200	14 805	390	
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f 1	D 15	3 640	3 138	500	
	D 13	1 430	1 222	195	
	D 16	1 750	1 250	500	
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		15 190	14 800	390	
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	+	15 700	(4 896	390	<del> </del>
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1		550	452~189	111	
	1	3 670	3 164	500	<del> </del>
F 1	D 19		1 206	195	
2	D 13	1 410	1 259	500	<del> </del>
- 1	D 16	3 230	3 030	195	{
4	D 13	15 150	14 800	390	<u> </u>
	+;	15 130	14 800	390	<del></del>
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JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(LICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
IICA STUDY TEAN	TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (12)
PACIFIC CONSULTANTS INTERNATIONAL SUVERNAL CONSULTANTS INTERNATIONAL	DATE DNG NO. W-36
FUNCTANA CONSULTANTS INTERNATIONAL	DATE DEG NO. 44 30







JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (13)

PACIFIC CONSULTANTS INTERNATIONAL

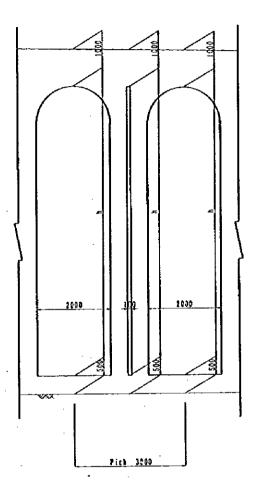
FIRMUMAN CONSULTANTS INTERNATIONAL

DATE

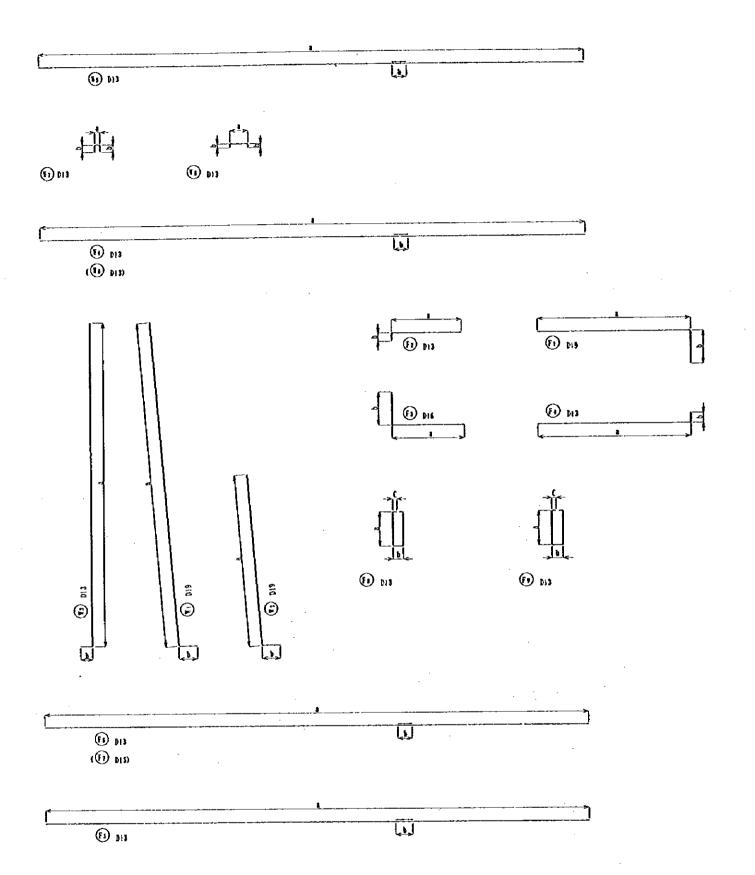
DATE

DATE

<u></u>		(ī-	1))			(f-	12)			<b>(</b> -	13)	
	<b>-</b>	a - a	= $T$	b - b		a - a		b - b		a - a		b - b
	Hal	4 7 3 2	Н Б 1	4 4 7 5	Ha1	4 4 7 5	H b l	4 0 7 6	Ha1	4 0 7 6	ньі	3 6 7 6
	11 a 2	4 2 3 2	H b 2	3 9 7 5	Ha2	3 9 7 5	H b 2	3 5 7 6	Ha 2	3 5 7 6	Нь2	3 1 7 6
A	Ha3	150250 = 4 000	ньз	150250 = 3750	Ha3	150250 = 3750	H b 3	140250	Ha3	149250 = 3500	НЬЗ	120250
1	Ha4	8 9 2 5 0 = 2 0 0 0	Н b 4	7 9 2 5 0 = 1 7 5 0	Ha4	70250 = 1750	Н Ъ 4	60250 = 1500	Ha4	60250 = 1500	Н Ъ 4	40250 = 1000
] [	He5	232	H b 5	225	Há5	2 2 5	Н b 5	7 6	Ha5	7 6	нь5	176
L	Bal	4 8 5	B b 1	471	8 a 1	471	Bbl	449	Bal	4 4 9	B b 1	426
I	B a 2	2 4 1 5	B b 2	2 4 2 9	B a 2	2 4 2 9	В Б 2	2 4 5 1	Ba2	2 4 5 1	В b 2	2 4 7 4
N	Ba3	235	Вь3	2 2 1	Ba3	2 2 1	В b 3	199	ВаЗ	199	вьз	176
E	Ba4	20183.5	B b 4	20176.5 = 353	B a 4	20176.5 = 353	B b 4	20165 = 330	Ba4	20165 = 330	8 b 4	20154 = 308
"	Ba5	263	B b 5	217	Ba5	277	B b 5	300	Ba5	20150 = 300	B b 5	20161 = 322
	B 8 6	70300 = 2 100	В ь 6	7 @ 3 0 0 = 2 1 0 0	Ba6	70300 = 2 100	B b 6	70300 = 2 100	Ba6	7 @ 3 0 0	въб	7 <b>0</b> 3 0 0 = 2 1 0 0
	8 8 7	350	В Б 7	336	B a 7	336	В Б 7	3 1 4	Ba7	314	В 6 7	291
	Ba8	280	В <b>b</b> 8	294	8 & 8	20147 = 294	Въ8	20158 = 316	B a 8	20158 = 316	във	20169.5 = 339
		€-	1))		L	Œ-	12			<u>(f-</u>	13	r
		a – a	-	b - b		a - a	İ	b - b		a a		b - b
1	Hal	4 9 0 3	1161	4 4 5 6	Ha 1	4 4 6 6	нь і	4 0 6 5	Ha 1	4 0 6 5	Нь1	3 6 6 4
-	Ha2	4 4 0 3	11 ъ 2	3 9 6 6	Ha2	3 9 6 6	НЪ2	. 3 5 6 5	Ha2	3 5 6 5	Н Ъ 2	3 164
В	НаЗ	17@250 $= 4.250$	Нь3	150250	11 a 3	150250 = 3750	нь з	120250 = 3000	Ha3	120250	H b 3	= 3 0 0 0
1	Ha4	100250	H b 4	70250	Ha4	70250 = 1750	Hb4	60250 = 1500	Ha4	60250 $= 1500$	H b 4	= 1 000
Ιι	На5	153	Н Ъ 5	216	Ha5	216	11 b 5	6.5	На5	6.5	H b 5	164
	Bal	495	Въз	470	Bal	470	Вьі	448	Bal	4 4 8	Bbi	426
I	B a 2	2 4 0 5	В ь 2	2 4 3 0	B a 2	2 4 3 0	B b 2	2 4 5 2	Ba2	2 4 5 2	B b 2	2 4 7 4
N	Ba3	I	В Ь 3	220	Ba3	2 2 0	8 b 3	198	Ba3	198	B b 3	176
E	B a 4	= 370_	В b 4	3 3 Z	Ba 4	1 = 35Z	В в 4	20165	Ba4	2@165 = 330	В в 4	= 307 20161.5
1	B a S	234	В ь 5	= 2/8	Ba5	= 218	В ъ 5	20150 = 300	Ba5	20150 = 300	B b 5	= 323 70300
	B a 6	70300 = 2100	В Ь 6	70300	B a 6	7 @ 3 0 0 = 2 1 0 0	B b 6	7030G = 2100	Ваб	70300 = 2100	8 b 6	= 2 100
	Вая		867		B a 7	1	B b 7	313	Ba7	313	B b 7	291
1	B a 8	20135 = 270	В ь 8	2 0 1 4 7. 5 = 2 9 5	B a 8	20147.5 = 295	В ь в	$\begin{array}{c} 20158.5 \\ = 317 \end{array}$	Ba8	= 317	В в 8	= 339



Slit Shape in Front of Fall (Thickness 1=30 mm)



13 ]	¢ (s s)	LENGIB		Ъ	t
<u>u j</u>	V 3-4/	(11)			L
В			4 650. 4 554	402	
_1	D 13	4 700	4 \$39~ ( 182	285	ļ <del></del> -
1		2 590	2 304	285	
3	D 13	4 600	¢ 531~4 275	195	
4	•	15 190	14 800	390	
5	•	13 540	13 541	390	L <u> </u>
1		15 200	14 892	390	
7	,	500	110	195	
-		490	365~171	111	
i	D 15	3 250	1 950	300	
_			929	195	
2	D 13	1 124		300	
3	D 16	1 350	1 050		ļ <del></del>
_1	D 13	2 930	2 730	195	
	•	25 190	14 800	390	<b>!</b>
Ŀ		15 190	14 800	390	
		15 199	14 800	390	
8	3	1 160	328	279	111
9	•	1 179	323	782	311
12					
17	P 19	4 310	4 282~3 882	285	
	7 13	2 590	1 394	285	
- 1	<del></del>			195	<del> </del> -
- 1	D 13	4 280	€ 275~3 876		l
	- * .	15 190	14 800	390	<del>  - = -</del>
5	•	8 460	1 453		$\vdash$
í		15 200	14 805	390	
1	i	500	110	195	
l.	•	430	351~185	111	
1	D 13	1 270	2 954	300	<u> </u>
2	D 13	1 130	906	195	
3	DIF	L 350	1 050	300	
4	D 13	2 930	1 730	195	T
	-	15 190	14 800	390	T
	-	15 190	14 800	390	<b> </b>
	1	1	14 800	390	<del> </del>
	•	15 190			111
- 8	•	1 169	328	279	111
9		1 170	329	281	111
13					· · · · · · · · · · · · · · · · · · ·
	B 19	3 970	1 881~3 481	285	
1	•	1 590	1 304	285	
3	0 13	3 880	3 176~3 475	195	
$\dot{}$	-	15 190	14 800	390	
5	<b> </b>	7 740	1 150~11 215	390	
<del>-</del>	<b> </b>	15 200	14 805	390	
<del>.</del>		500	110	. 195	T
	t	490	329~190	111	<del></del>
	<u>                                     </u>			t	<del> </del>
F 1	D 15	3 290	2 985	300	<del>                                     </del>
1	0 13	1 680	B84	195 -	<b></b>
3	D 16	1 350	1 050	300	<del> </del>
4	D 13	1 530	2 730	195	
5	,	15 190	14 800	390	
6	•	15 190	14 800	330	
7	•	15 190	14 890	190	
1		1 153	328	179	111
<u> </u>	•	1 179	329	182	111
	<u> </u>		1		

REIN		LEXCIA			
NO.	Ø (88)	(63)	5	<u> </u>	t
111					
1 1	D 19	4 780	4 710~4 273	285	
2		2 599	2 304	285	
3	D 13	4 680	4 783~4 266	195	
4	- 11	15 190	14 800	390	
\$	-	3 148	\$ 252~13 833	190	
6		15 200	14 886		
	•	\$60	110	155	
		500	375~181	111	
f 1	D 19	3 249	2 540	300	
1	0 13	F 130	930	195	
3	D 15	1 350	1 050	300	
4	D 13	2 930	2 730	195	
5	,	15 150	14 800	390	
	<u> </u>		14 800	390	
		15 190	<del></del>		
	- I	15 190	14 800	390	
		1 160	328	275	113
9	,	1 179	329	282	111
1 12					
<b>T</b> 1	D 19	4 360	4 273~3 871	285	
1	,	2 590	2 304	285	
<del>-</del> -	D 13	4 270	4 266~3 865	195	
	,	15 190	14 800	390	
	<del></del>		8 080		
- 5		8 080		Teh.	
- 6	<u> </u>	15 200	14 805	390	<u> </u>
7	'	500	118	19\$	<del></del>
8	•	490	350~184	111	
Fl	D 19	3 270	2 965	300	
1	D 13	1 100	90\$	195	
3	D 16	1 350	1 050	390	
	D 13	2 930	2 730	195	
<del>`</del>	-	15 194	14 600	390	
	<u> </u>	15 190	11 800	390	
- 6			14 800	330	
?	<u> </u>	25 190			
	<u>                                     </u>	1 160	328	279	111
		1 170	319	182	111
1 13		· · · · · ·			
¥ 1	0 13	3 960	3 876~3 469	285	
?	•	2 550	2 334	285	<del>-</del>
3	9 13	3 860	3 865~3 464	135	-=
<del>-</del>		15 150	14 600	390	
	-	7 150	2 431~11 783		l —
<u>`</u>	<del> </del>	<del></del>	14 805	390	
	-	15 200	<del> </del>	195	<del> </del>
7	-	500	110		<del></del>
		490	378~150	111	<del> </del>
F 1	D 19	3 290	2 987	300	ļ
. 1	0 11	1 080	883	195	ļ
3	D 16	1 350	1 050	300	
4		2 530	2 730	195	
5		15 190	14 800	390	
6	+	15 190	14 800	196	
		15 190	14 800	190	† <del></del>
7				279	
1	<b></b>	1 160	328	<del></del>	111
		1 179	329	282	1 11
3	<u> </u>		J		·

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ور و المراقع المراق	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NOTES:	(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
-	JICA STUDY TEAN	TITLE :	R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (15)
	PACIFIC CONSULTANTS INTERNATIONAL FEBRUARY CONSULTANTS INTERNATIONAL	DATE	DVG NO. W - 39

NO. 1	o (11)	E E SETE	MONITAL	NUMB	D BEICHT	TEICHT	REMARK
11	0 (117)	(83)	TEIGHT	L			
亩	D 25	3 640	5, 059	61	45. 7\$1	2 119, 1	l
2	•	\$ 110		58	25.851	1 439.4	
	D 13	8 860 15 150	2, 235 0, 554	61 75	19.891 15.695	1 287. 9	]
		1 500	V. 235		1.548	17.1	
i	•	15 260	•	1	15, 109	39. t	
7	,	500		11	0.497	38, 3	
_!		110	3 813	443	8, 766 19, 544	312. B 2 373. 3	
FI	D 15	5 070 2 130	3, 973 0, 994	119	13, 351	123.1	٠- '
-;	D 16	2 550	1.552	113	3, 358	471.0	L.,
4	•	4 370	•	61	1. 782	413.7	
5		IS 210		13	23.715	308, 1	
- 5	0 13	15 190	4.594	19	15.099 15.099	75, 5 286, 9	
7	-	15 199 2 160	<del></del>	58	2, 346	136.1	Ü
;		2 350	•	145	2, 346	343.1	Ö
						11556.1	
	N 18	1 770	5, 953	61	41, 317	2 706.4	1
7 1	D 25	5 110	3. 932	58	25.851	1 455.4	· ·
3	D 19	8 598	2. 235	fi	19.159	f (71.1	Ĭ.
4	0 13	15 190	0. 954	73	15.033	1 102.2	
5		8 610		2	7,911	16.0	
1	•	15 200 580		1 11	15.103 0.497	30. 2 30. 3	
<u>:</u> -	-	718		413	0.706	291.6	
FI	D 25	5 450	3, 973	119	20.961	2 307.6	
2	9 13	2 110	D. 994	61	2.697	127.5	
	D 16	2 550	1, 553	113	3. 951	471.6	<u> </u>
<u> </u>		4 370 15 280		111	6, 712 23, 715	413, 7 398, 3	<del> </del>
	D 13	15 190	8. 191	5	15.095	75. \$	
1	,	35 190	•	13	15.039	286. 5	
ı	•	2 160		58	1.345	136.1	0
<del></del>	•	2 189		145	1.366	11397. 3	0
		· <del></del>			<del> </del>	11077. 0	
13	D 23	# 504		61		2 523, 1	
					25.851	1 453.4	<del></del>
T 1	•	\$ 110		59			, ,
1 1	D 15	\$ 110   1328	2. 235	61	18.555	1 111.1	<del>  -</del> -
1 1 2 2 4	•	\$ 110	2. 235	11 71	18.55\$ 15.059	1 134.3 1 072.0	
1 1 2 2	D 15	\$ 110 8 325 15 190	2. 235 0. 994	61	18, 555 15, 059 7, 455	1 124.3 1 972.0 14.9	
1 1 2 2 4 5	D 15	\$ 110 # 328 #\$ 190 7 500 #\$ 200	2. 235 0. 994	\$1 71 2 2 \$1	18.555 15.099 7.455 15.109 0.497	1 134.3 1 972.0 14.9 30.1	
1 1 2 1 4 5 6 7	D 15	\$ 110 # 329 #\$ 190 # 500 #\$ 200 500	2. 235	61 71 2 2 51 413	18.555 15.093 7.455 15.103 0.497 0.676	1 134. 3 1 972. 0 14. 9 30. 1 30. 1 279. 1	
1 1 2 4 5 6 7 8	D 15 D 13	\$ 110 1 374 15 190 1 500 15 200 500 680 5 270	2. 235	61 21 2 51 413 118	18. 595 15. 099 7. 455 15. 109 0. 497 0. 676 20. 149	1 134.3 1 972.0 14.9 30.1 30.1 279.1 2 397.0	-
1 1 2 1 4 5 6 7	D 15	\$ 110 # 329 #\$ 190 # 500 #\$ 200 500	2. 235 0. 994 	61 71 2 2 51 413	18. 555 15. 099 7. 455 15. 109 0. 497 0. 676 20. 143 2. 077	1 134.3 1 972.0 14.9 30.1 30.1 279.1 2 397.0	
1 1 2 3 4 5 6 7 8 F 1	D 15 D 13	\$ 110 1 320 15 190 1 500 15 200 500 680 5 270 2 090	2. 235 0. 994 	61 71 2 2 51 413 118 61	48.555 45.053 7.455 15.103 0.497 0.676 20.143 2.077 3.558	1 134.3 1 072.0 14.9 30.1 30.2 279.2 2 397.0 126.7 471.0	
1 1 2 3 4 5 6 7 8 1 2 3 4	D 15 D 13 D 13 D 13 D 15 D 13 D 16	\$ 110 1 320 15 190 7 500 15 200 500 680 5 070 2 090 2 550 4 370 15 280	2. 235 0. 994  2. 973 0. 994 1. 552	61 71 2 2 51 413 119 61 (15	48. 555 15. 059 7. 455 15. 109 0. 497 0. 676 20. 143 2. 077 3. 558 6. 782 23. 715	1 114. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 413. 7 308. 3	
1 1 2 2 4 5 6 7 8 F 1 2 3 4 4 5 5 5	D 13 D 13 D 13 D 13 D 15 D 15 D 15 D 16 D 13	\$ 100 1 320 19 190 7 500 15 200 500 680 5 979 2 990 2 550 4 370 15 280 15 190	2. 235 0. 994 	61 71 2 2 61 413 119 61 115 61 125	48. 555 15. 053 7. 455 15. 103 0. 497 0. 676 20. 143 2. 077 3. 958 6. 782 23. 715 15. 035	1 134. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 413. 7 308. 3	•
1 1 2 2 4 5 6 7 8 F 1 2 3 4 5 5 6 7	D 15 D 13 D 13 D 15 D 15 D 13	\$ 100 1 320 19 190 7 500 15 200 500 680 5 979 2 990 2 550 4 370 15 280 15 190	2. 235 0. 594 	61 71 2 2 61 413 118 61 (15 51 12 51	48. 555 15. 093 7. 455 15. 103 9. 497 9. 676 20. 143 2. 077 3. 958 6. 782 23. 715 15. 093	1 134. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 413. 7 308. 3 75. 5	
1 1 2 2 4 5 6 7 8 F 1 2 3 4 4 5 5 5	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 100 1 320 19 190 7 500 15 200 500 680 5 979 2 990 2 550 4 370 15 280 15 190	2. 235 0. 594 	61 71 2 2 61 413 119 61 115 61 125	48. 555 15. 093 7. 455 15. 103 0. 497 0. 676 20. 143 2. 077 3. 958 6. 782 23. 715 15. 093 8. 348	1 134. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 412. 7 308. 3 75. 5 286. 5	
1 1 2 2 3 4 5 5 6 F 1 2 2 3 4 5 5 6 1 1 1 1 1	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 110 8 320 15 190 7 500 15 200 500 680 2 090 2 550 4 370 15 280 15 190 15 190 2 160	2. 235 0. 594 	61 71 2 2 61 413 119 61 113 51 123 5 19	48. 555 15. 053 7. 455 15. 103 0. 497 0. 676 20. 143 2. 077 2. 978 6. 782 23. 715 15. 059 15. 059 2. 346	1 134. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 412. 7 308. 3 75. 5 286. 5	
1 1 2 2 3 4 5 5 6 F 1 2 2 3 4 5 5 6 1 1 1 1 1	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 110 8 320 15 190 7 500 15 200 500 680 2 090 2 550 4 370 15 280 15 190 15 190 2 160	2. 235 0. 594 	61 71 2 2 61 413 119 61 113 51 123 5 19	48. 555 15. 093 7. 455 15. 103 0. 497 0. 676 20. 143 2. 077 3. 558 6. 782 23. 715 15. 099 2. 346	1 134. 3 1 972. 0 14. 9 30. 2 30. 3 2 79. 2 2 397. 0 126. 7 471. 0 412. 7 308. 3 255. 5 285. 5 135. 1	
1 1 2 2 3 4 5 5 6 F 1 2 2 3 4 5 5 6 1 1 1 1 1	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 110 8 320 15 190 7 500 15 200 500 680 2 090 2 550 4 370 15 280 15 190 15 190 2 160	2. 235 0. 594 	61 71 2 2 61 413 119 61 113 51 123 5 19	18.555 15.099 7.455 15.109 0.497 0.676 20.143 2.077 3.558 6.782 23.715 15.099 2.348 2.366	1 124. 3 1 972. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 412. 7 308. 3 75. 5 286. 5 136. 1 1241. 7	
1 1 2 2 3 4 5 5 6 F 1 2 2 3 4 5 5 6 1 1 1 1 1	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 110 8 320 15 190 7 500 15 200 500 680 2 090 2 550 4 370 15 280 15 190 15 190 2 160	2. 235 0. 594 	61 71 2 2 61 413 119 61 113 51 123 5 19	48. 555 15. 093 7. 455 15. 103 0. 497 0. 676 20. 143 2. 077 3. 558 6. 782 23. 715 15. 099 2. 346	1 124. 3 1 072. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 412. 7 308. 3 75. 5 286. 5 286. 5 136. 1 1241. 7	
1 1 2 2 3 4 5 5 6 F 1 2 2 3 4 5 5 6 1 1 1 1 1	D 15 D 13 D 13 D 13 D 15 D 13 D 14	\$ 110 8 320 15 190 7 500 15 200 500 680 2 090 2 550 4 370 15 280 15 190 15 190 2 160	2. 235 0. 594 	61 71 2 2 61 413 119 61 113 51 123 5 19	18.555 15.099 7.455 15.109 0.497 0.676 20.143 2.077 3.556 6.782 23.715 15.099 2.346 2.366	1 134. 3 1 072. 0 14. 9 30. 2 30. 3 279. 2 2 397. 0 126. 7 471. 0 413. 7 308. 3 75. 5 286. 5 136. 1 1241. 7	

D 19 D 19 D 19 D 19 D 19 D 19 D 19 D 19	\$ 020 \$ 110 \$ 140 15 190 \$ 200 15 290	NOWINAL TEIGHT S. 059 2. 235 0. 594	NV3	# 181097 45, 632 25, 851	2 783.6 1 499.4	REVARES
D 19 D 15 D 18	\$ 020 \$ 110 8 149 15 199 8 200	S. 059 # 2. 235	\$8			1
D 19 D 13	\$ 110 B E49 15 190 B 200	2, 235	\$8			<u> </u>
D 13	8 E49 15 193 8 200	1. 115		25. 431 1	1 465 4	
D 13	15 199 8 200			19. 757	1 105. 2	
•	8 200		75	15. 995	1 132.4	
•	15 290			B. 151	16.3	
•		•	1	15. 109	30_ 2	
	509		51	9. 197	30.3	
P	710 5 030	3. 973	(+3 (19	8.766 19.954	312.8 1 378.1	
D 13	1 130	0.554	81	2.117	139.1	<u></u>
D 16	2 550	1.551	111	3, 958	471.0	L.
	4 370	•	61	6. 782	413.7	
7 D 13	15 280 15 190	0.991	13	23, 115 15, 099	308. 3 75. 5	
7 13		4.331	15	15. 099	286. 9	
•	1 350		SI	2.346	136.1	Ü
•	1 380	•	145	2, 364	343.1	Ü
					11552.0	
9 23	8 760	5. 65 9	ši	44, 317	2 763.3	l
•	\$ 110	•	58	25, 851	1 459.4	
0 15	B \$80	2. 235	11 72	19, 176	1 169.7	
0 13		8. <del>7</del> 94		- 111111		
,	15 200	•	2	15. 103	30. 2	
	500	•	61	9, 437	30.3	,
,	710	•	413	9. 701	291.6	-
					471.0	
7.11	4 370		- 11	6. 792	413.7	
	15 280	,	1)	23.715	308. 3	
D 11	15 190	0.994	5	15. 093		
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,	1 150	,	145	2.366	343.1	Ü
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0 29	8 430	5.459	61	42, 951	1 620.0	
•	5 110	,	<b>-</b>		L 499. 4	i
D 19	2 3   0	2. 235	\$L	10.573	1 133.0	
			-		[	
•	590		0	9, 437	30. 1	4
	690	•	413	9. 656	183, 1	
D 25	5 810	3.973	111	20.103	2 197.0	
				·		
7,1	4 370	1. 271	61	6.782	413.7	
	15 280	,	13	23.715	308. 3	
D 13	15 190	0.994	5	15.059	75. 5	
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				0.16	3579.0	
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	9 29 7 9 13 9 25 9 13 9 13 9 15 9 10 10 10 10 10 10 10 10 10 10 10 10 10	2 28	# 1 346	1 346	# 1 346	1 346

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

(JICA)

PROJECT: D/O ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

JICA SILDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUNUTANA CONSULTANTS INTERNATIONAL
DATE

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

ROADS

TITLE: R/A-2, A' NASEEM GARDEN RE-BAR ARRANGEMENT (16)

DATE

DATE

DATE

1 - L	. I N	E								
REIN NO.	5 (2a)	LEXGTS (RE)	TERET	MAR	£ 181681	TELGIT	REVARIS			
11										
	D 25	8 050	3. 973	- 61	31, 553 18, 633	1 951. 0	<u> </u>			
3	D 15	7 890	1.552	58 61	12, 245	746.9	<u> </u>			
	D 13	15 194	0.934	66	15.099	995. \$				
5	•	11 550	•	2	11. 174	23. 6				
6	•	15 200	•	2	3\$, 103	30. 2				
7	<u>.</u>	500	•	<b>61</b>	9. 497	30. 1				
- 1		4 720	3.913	119	0. 666 11. 753	255. 7 2 231. 6	-			
F 1	D 25	1 840	9. 594	61	1. 813	111.6				
3	D 15	2 250	1.552	119	3, 492	415.5	L			
1	•	4 070	•	61	6, 317	365. 3				
5	•	15 260		11	23.715	28€. €				
- [	D 13	15 190	<u> 9. 994</u>	5	15.099	75. S 271. <b>3</b>				
7	-;-	2 160	<del>;</del> -	29	15.095 2.147	62.3	U -			
8	-	2 189	<del>- ;</del>	145	2.167	314. 2	Ü			
1						9267. 5				
15	<del></del>	2 240	3. 972	61	30, 711	1 173.4	F			
T 1 2	D 25	7 710		58	8.613	1 010.7	1			
- 1	D 16	1 570	1.551	61	11.749	716.7	† <u></u>			
	D 13	15 130	9.994	64	15. 693	956. 1				
	•	6 850		-	8, 837	17.1				
		15 200			15, [0]	39. 2	4			
	,	500 510		354	8, 437 0, 656	30. 3 235. <b>1</b>				
Fi	0 15	4 740	3, \$73	119	18, 832	1 241.0				
· ;	9 13	1 810	0. 39 4	61	1.793	109.7	-			
3	D 16	1 250	1.551	113	3, 452	415.5	<u></u>			
4	,	4 070		63	6.317	315.3	<u></u>			
\$	.,,	15 260 15 190	0. 994	12	23.715 15.659	284. 6 75. 5				
5	D 13	15 130	4. 335	18	15.053	271. 3				
		2 [60		29	2. 147	\$2.3	U			
,	•	2 110		145	2, 167	314. 2	<u>U</u>			
·	<u> </u>					51 F1. 0				
3 6			<del> </del>							
**	D 25	7 390	3. 973	61	25. 360	1 791.4	l			
1	•	4 690		58	FS. 633	1 480. T	L			
3	D 16			61	+	+	<del></del> -			
(	D 13		0.594	62						
5 6		5 100 15 200		1 2	+		<del></del>			
7	ļ. <del></del> -	500		61	<del></del>	·				
1	7	610	•	354		225. 1				
F 1	9 15	4 370	3.973	119						
2	D 13	1 750	D. 394	115	<del></del> -		<del></del>			
	D 16	1 250 4 97B	1. 552	319						
1-		15 280	,	<del>  "</del>						
-	D 13	15 190	D. 994	5		<b>+</b>				
1	•	IS 190		11						
1	-	2 150		35		~ <del> </del>				
<u> </u> '	<b>_</b>	2 180	· · ·	145	2.161	8961. I				
<b></b>			<del></del>				·			
					D 1	15585.	)			
					DII					
				•	D 13		<u> </u>			
<u> </u>	<del></del>			·	TOTAL BEIGH	27340.1	1			
-		<del></del>			141VF #51AG		·			

REIS	<u>, I N</u>	l E					
**	φ (sa)		TELEST	NER3	189131 7	TEIGHT	BEXARES
30. [		1897 1	161941				
1 1	D 25	6 039	3.911	61	31.903	1 186.0	<u> </u>
_ 1		4 650		\$8 \$1	18, 533	1 859.7 T46.0	
- 1	D 16	7 880 15 190	1, 552 0, 994	15	15.093	\$96.5	
		11 410	•	2	11.341	22. T	
6	•	15 700		1	15. 103	30. 2	
1	•	500		61	0.437	39. 3	*
. 1		670	A A 2 3	384	18, 753	255. T 2 231. G	
Fi	D 25	4 720 L 840	3. 973 0. 954	113 61	1. \$23	10.4	
3	9 11	2 250	1.551	119	3. 492	415.5	L
-	1	4 979		<b>61</b>	6, 317	385. 3	
5	•	15 260	,	_11	23, 715	214.6	
- 1	B 13	15 190	D. 994	5	15.059	75.5	
7		15 190		29	15. 055 2, 147	271. I 51. 3	Ö
3	-	2 160	_ <del></del>	145	2. 167	314.2	0
1				1		9268. E	
7 \$					******		_ <del></del>
1 3	D 25	7 729	3, 973	- 61 - 60	30, 672 18, 633	3 \$71. B	
2	P 16	7 560	1,552	58	11.733	715.7	<u> </u>
	D 13	15 190	0.994	64	15.039	366.3	
\$	•	1 360		1	8.310	15. 6	
6	•	15 200	•	2	15, 185	30. 2	
. 7	•	500		61	0. (97	30.1	
1	-	674	3 071	354	0.666	235.1	
FI	D 25	£ 740	3. 973 0. 534	6	1. 759	103, 7	
	D 16	1 250	1.552	113	3. 452	415.5	<u> </u>
4	,	4 070		51	6, 317	385. 3	
5		15 280		12	23.715	284, 6	
- 6	D 13	15 150	0.994		15.095	171.4	
1		15 19D	<del>- ;-</del>	13	15, 095 2, 147	61.3	U
- 8	<del>-</del>	1 180		145	2.167	314.2	Ū
				•		9106.5	
7 6		<del></del>			r	1	<del></del>
1 1	D 25	7 350	3,373	58	29. 321 18. 633	1 788.6	
2	D 16	4 690 7 210	1.552	\$1	11. 221	684.5	- <del>`</del>
	D (3	15 190	0. 914	62	15.033	936.1	
5	•	4 678		2	4, 647	9.3	
•	•	15 280	•	2	15. 145	30. 2	
1	ļ <u>,                                     </u>	500		51	0.437	39.3	
F 1	D 25	640	3, 573	119	0, 616 18, 951	2 255. 2	<del>                                     </del>
	D 13	1 799	8.954	60	1, 213	108. \$	<del></del>
<del>-</del>	D 15	1 250	1.551	1117	3. 432	415. \$	
	•	4 070	•	61	6.317	18S. 3	+
5	•	15 280	,	12	23, 715	284. 6	+
-	0 13	15 150	0.935	1	15.059 15.093	75. 5 211. 8	+
1 8		15 190 2 160		18	2 (47	62.3	
		2 180		165		<del>  /</del>	<del></del>
-	1					8957.7	
1-							
1							
1					0 25		
1					- 0 16	\$402.4	
1						\$402.4	
1			-	1	- 0 16	\$402.4 \$346.1	

INTERNATIONAL COOPERATION AGENCY

(11CA)

(11C

A-LINE BELK O (as) LESGTH SONISAL MENS E SEIGHT TEIGHT REMARKS 6 890 3.042 20.959 1 278.5 10.001 580.5 2 " 3 250 " 58 3 D 16 6 180 1.552 61 10. S21 £41. 9 800.2 4 D 13 15 190 D. 994 53 15.095 5 4 250 12. 1 10. 1 1. 201 15 200 500 15.109 0.457 10. 1 200.2 375 D. 616 F 1 D 22 4 130 3.042 115 12.563 1 495.0 2 D 13 1 230 4.994 61 1.726 3 D 16 2 150 1.552 115 3.337 104. 9 397. I L 338. 0 3 579 " 5.541 5 / 15 220 23.715 250.3 75. 5 S D 13 15 130 0.594 7 " 15 130 " 15.035 17 15.499 256. 7 1 1 1 560 25 1,348 ีย 56.5 3 - 1 580 1.563 228.3 6307.5 
 1
 D 22
 6 500
 3.042
 61
 15.773

 2
 \*
 3 750
 \*
 58
 10.608
 580. S 3 D 16 6 400 1.551 61 9.533 605. 9 4 D 13 15 190 9.994 5 9 5 750 # 178.9 ----11.4 ----39.2 ----51 15.099 2 5.716 15.109 30. 3 61 0.497 • 506 610 255 0.606 178. 1 1 505. 5 119 12.655 F | D 22 4 169 3.642 2 0 13 1 700 0 594 1. 690 3 0 16 2 159 1.552 119 3. 337 397. 1 3 570 5. 541 136.0 \_\_\_ 23. 715 15 284 15.095 6 D 13 15 19D 0.594 75. 5 17 15.059 29 1.348 116 1.368 15 198 . . 256. 7 8 " 1 960 9 " 1.580 56.5 C 1. 348 228. 3 C D 22 6646.6 D 16 3239. 1 D 13 3556.4 TOTAL TÉIGHT 13442.8

REIN	¢ (11)	LENGIE	NOVINAL	VP ND	E \$21091	SEIGHT	REMARKS	
10.	¢ (11)	(45)	TEICHT	NUS	[ 451031	* 1 1 7 8 1	REBARRY	
11								
<u>'                                    </u>	D 21	6 110	3, 012	<u> </u>	20. 923	1 276.7	<u> </u>	
3	,	3 290	<u> </u>	58	10.008	580. 5		
3	D 16	6 770	1.552	- 61	10,507	640. 9	J	
- 4	D 13	15 190	0.991	51	15.099	800.2		
5		7 990	•	1	7. 942	11.1		
		15 200		1	15. 109	30. 2		
7		\$00		61	4, 497	30.3		
- 1		\$20	. !	325	9. 606	197, 0		
£ 1	D 22	4 130	3. 042	(11)	12,563	1 495.0		
1	D 13	1 730	0.994	11	1.720	104. 9		
3	D 16	2 150	1.552	113	3, 337	397.1	<u> </u>	
4		3 570	•	11	5, 541	238. 0		
5	•	15 280	•	11	23, 715	260.5		
- 6	D 13	15 190	0.994	5	15, 099	75. 5		
7	•	15 190		17	15.093	256.7		
8		1 964	•	29	1, 341	56.5	0	
. 9	,	1 380		116	1.362	228.3	_ 0	
						6860. 5		
11		, <del>-</del>		,				
1 1	D 22	6 500	3.041	61	19, 771	1 206.2		
2	•	3 290		58	10,001	\$80.5	1	
. 3	D 16	6 390	1.552	- <b>6</b> 1	9, 917	604. 9		
- 4	D 13	15 190	0.994	49	15.093	735. 5		
5		10 293	•	- 4	19. 221	40.9		
	•	15 200		2	15. 163	30.1		
7	,	500	_ •	51	0.437	30.3		
		- 610	•	235	0, 606	178.1		
F 1	D 11	4 160	3.841	113	12, 655	1 505. 3		
2	0 13	1 700	0.994	1 11	1.690	103. i		
3	0 16	2 150	1.551	119	3.337	337. 1	L	
4		3 570	,	61	5.541	338.0		
5		15 280		11	23.715	260.9		
6	D 13	15 190	0. 994	\$	15.099	15. 5		
7	•	15 195	· ·	17	15.095	258. 7		
		1 950	•	33	1.548	\$6.5	0	
	•	1 980		]_116	1.968	228.3	0	
						6533.7		
	•				. ··			
_			_ <del></del> .		D 21	6614. 8		
	· · · ·	·			D 16	3337. 8		
			·		D 13	3551. 6		
					*** ****	49192 4	· · · · · · · ·	
				10	MAL VEIGHT	13434.2		
							<del>.</del>	

JAPAN	INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
٠.	JICA STUDY TEAN	TITLE :	R/A-2. A' NASEEM GARDEN RE-BAR ARRANGEMENT (18)
	PACIFIC CONSULTANTS INTERNATIONAL	DATE	DEG NO. W - 42

A-LINE BEIN O (xx) LENGTH NOWING SLAB & SEIGHT SEIGHT REMARKS T 1 D 22 5 900 3.042 545. 2 58 9.400 7 . 3 D 16 3 090 - (1 549. L 5 E00 1.552 9.002 47 15.695 703.1 4 D 13 15 190 0.934 6. 998 7 040 , 15.109 30. 2 15 200 0.497 20.3 \$00 61 150. E 246 0.567 \$70 3 640 2.215 F 1 9 13 119 1. 135 361.1 1, 431 86.7 **£1** 2 9 13 1 438 0.994 1 750 1,552 119 2. 716 323.2 3 D 16 195.9 ---2. 211 4 D 13 3 230 0.934 5 15 690 15.099 15. 099 60.4 1 . 15 190 7 7 )5, 099 1, \$\$1 226.5 15 190 45.0 O 29 1 560 181.1 D **#** 136 1.561 1 570 \$ 290 3.042 61 16.291 1 000.2 3 090 # \$8 3.403 545.2 1 D 22 1 " 50D. B 3 B 16 8. 210 \$ 290 1. 552 4 D 13 15 190 D. 994 15.039 615. 2 8.611 51. 8 \$ . \$ 650 15 210 15.119 30. 1 0.49? 30. 3 500 131.5 560 0.557 F 1 D 19 1.202 \$76.0 3 620 2.235 119 2 D 13 3 D 16 85.5 1 410 0.994 1.402 1 750 1.552 2, 716 313. 2 119 3 239 0.994 85 190 -3. 211 4 D 13 195. 9 15.099 15.093 60. 4 15 190 15 190 15.093 226. 5 25 1. 551 45. 0 O 1 560 183.1 U 1 570 1.561 5153.7 D 22 3185, 4 D 15 19(4.1 D 16 1856.3 D 13 3703.5 TOTAL WEIGHT 10528.7

NOTES:

B - 1	_ [ ]	<u> 1 E</u>					
REIX	<b>(12)</b>	LENGTR	KONENAL	AUAB	E BEIGHT	TEIGRI	REMARTS
PV	V	(11)	TEIGET				
1 3		,	2 4 4 4	· .	17.412		
1 1	D 21	5 L90	3, 042	61	17.517	1 192.9	
2		3 690		51	9.400	\$43.2	<u> </u>
3	D 16	5 750	1.552	- 61	8. 986	549. 1	J
. 4	9 13	15 199	P. 994	47	15.093	103.7	_=
5	8	9 850		2	8.996	18. 9	
6		13 200		2	15.189	30.1	
7	•	500		61	8, 457	30. 3	
1	•	\$70		266	8.567	150. B	<u> </u>
Fl	9 13	3 640	2. 235	113	8, 135	561.1	
1	D 13	1 430	0.994	61	1. 121	86.7	7
3	D 16	1 750	1.551	113	2.746	313. 2	L
4	9 13	3 230	9. 994	61	9. 241	155. 9	
5		15 19B	,	10	15.095	151.0	
-	•	15 190	•	4	15, 035	69.4	
?		15 19D	,	15	15. 099	226.5	
1	•	1 560	,	23	1.551	45.0	O
9	•	1 570	•	116	1.561	111.1	D
		L			<b>_</b>	5363.1	
1 10							
B 1	D 22	5 470	3.041	61	16, 649	1 015.0	Π
2		3 090	,	58	3, 110	\$45.2	i
3	D 16	5 170	1. \$51	61	8. 334	508.4	<u> </u>
1	D 13	15 190	0.331	13	15, 099	649.3	
5	,	7 380	7.731	4	7. 336	29.3	
	<del>-                                    </del>	15 209	,	<del>                                     </del>	15, 109	30.2	
7	-	500	<del></del>	61	4, 497	30.3	
8		559	<del>                                     </del>	266	9.547	145.5	
	D 19	3 610	1. 235	113	8. 101	376.0	
FI			0.934	1 13	1. 401	85.5	<del>-</del> -
1	D 13	1 410			2. 716	323.2	i
	D 16	1 350	1.551	113	+		
	D 13	3 230	0.591	61	3,211	195. 5	- <u></u>
- 5		15 190		10	15.099	151. 6	<u> </u>
		15 150			15.059	66.4	<u> </u>
- 7		15 190		15	15.039	226.5	
1		1 560	-	29	1.551	45.0	1 0
9	'-	1 570	<u></u>	1 116	1.561	111.3	<u> </u>
<u> </u>			. <del></del>			5197. 8	
<u> </u>						3184 -	
ļ			<del></del>		D 12	3158. 3	
<b> </b>		<u> </u>	·		D 15	1544.1	
					D 16	1702.3	
			· · · · · · · · · · · · · · · · · · ·		D 13	3715. E	
<u> </u>							
					OTAL BEIGHT	10560. 9	
ļ							
				-			
l							

SAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAN	TITLE :	R/A-2, A' NASEEN GARDEN RE-BAR ARRANGEMENT (19)
PACIFIC CONSULTANTS INTERNATIONAL SIGNATURAL CONSULTANTS INTERNATIONAL	DATE	DVC NO. W-43

	.11	E					
REIS SO.	¢ (11)	183618 (m)	RETERI	REAR	T #61687	TEIGBT	BEKARES
III	1	4 can T	1. 135	ft l	19, 504	619.7	-
7 (	B 19	4 100 2 539		53	5. 785	335, 1	<u> </u>
3	B 11	4 600	0.534	- (1	4.572	278.9	Ì
4	•	15 150	•	38	15. 959	573.8	
ş	•	13 9(\$	•	1	13. 856	27. 7	
í	-	15 200		1	15, 193	30. 2	
7	•	500	*	61	0. 497	30. 3	
. 8		450		236	0.417	H4.9	
F 1	D 13	3 250	1. 235	115	7. 264	161.4	L
	D 13	1 126	0.994	119	1.113	87. 3 249. 3	ļ.,
3	D 16	1 35B	1,551 9,994	£1	2.912	177. 6	
- 3	J (3	15 190	4. 77.	9	15.093	135. 9	
		15 190	· ·	3	15. 493	45.3	
7	-,	15 190	•	13	15.895	196.3	
- 1	•	1 160		29	1, 153	33.4	0
,	•	1 174		118	1.43	134.9	0
						3917.3	
1 12						595. 8	1
1 !	0 19	4 370 2 590	1. 235	61 58	9, 767 5, 789	335. B	1
	) )  1	4 210	0.954	61	4, 254	259.5	
		15 190		36	15. 093	543.6	
		1 460	*	1	B. 403	16.8	
6	•	15 700	•	1	15, 165	30.2	
1	,	500	•	61	0.457	30.3	
8	•	450	-	287	0, 437	100.8	
F 1	D 13	3 270	2. 235	119	7, 108	869.7	
	D 13	1 110	9. 394	61	1.103	67. 3	-
1	D 16	1 350	1.552	115	2.095	177. 6	<del></del>
<u> </u>	D 12	2 930	0.994	10	15.099	151.0	
	,	15 150		3	15.039	45. 3	
	,	15 130	,	13	15. 499	196.3	
2	•	1 164	•	29	1.153	33. 4	Ü
9		1 170	•	116	). 163	134.3	O O
		· · · · · · · · · · · · · · · · · · ·				3137. 6	
111		1	2, 235	6)	8, 073	541.3	Ι τ
1 1	8 13	3 570 2 550	1.233	58	5.785	<del></del>	├ <del>`</del>
2	9 13	3 480	0.934	61	3. 857		1
4	<del>  ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;</del>	15 157	•	111	15.059		<del></del>
\$	1	7 740		1	7. 594		
6		15 700	,	1	t		<u> </u>
7	,	500	•	61	0. 197	+	
8		459	•	177	B. 487	+	+
F !	D 19	3 198	2. 235	119	7.353		+
	D 13		0.394	69	2.495		<del></del>
- 3	D 13	1	0.994	115	2. 912	<del></del>	
		15 199	7.37	10			<del></del>
•	+	15 150	-	3	·	+	<del> </del>
5		15 190	•	13			<del></del>
\$ 1	1		·	29	1.151	33. 4	U
		1 160	<u> </u>				
1		1 160 ) 170	- :	116	1.161		
8			ļ <u>-</u>	-1	1.141	136.9 2701.4	
8	•		ļ <u>-</u>	-1		2701.4	
8	•		ļ <u>-</u>	-1	b (!	3701.4 S354.3	
8	•		ļ <u>-</u>	-1	D 11	3701.4   \$354.3   747.5	
8	•		ļ <u>-</u>	-1	b (!	3701.4   \$354.3   747.5	
8	•		ļ <u>-</u>	116	D 11	\$701.4 \$354.3 \$47.5 \$5214.1	

RETS T	LIN	ΙE					
	o (sa)	LENGTB	NOVINAL	31313	C BEIGHT	181681	RENARI
80.   1 11	V \==/1	(11)	PEIGET		,1		
1 1	D 19	4 789	1. 235	61	10.623	631.7	l
2	•	2 599	•	58	5. 185	335. \$	ι_
3	D 13	4 680	0.934	61	4, 652	183.1	<u> </u>
4	•	15 190	*	38	15.099	\$13. 1	
5		\$ 740	•	4	5, 682	38. 7	
\$	•	15 200		1	15.149	30. 2	
7		504		6 L	9. 137	10. 1	
. 8	•	500		236	0.497	117. 1	- <u></u> -
FL	D 13	3 248	7. 235	113	1. 241	161.1	
. 1	D 13	1 330	D. 994	6)	1.123	18.5	-[
. 3	D 16	1 350	1.552	113	1.095	245.3	L
- 1	0 13	2 930	8. <u>9</u> 94	- 11	2,312	177.6	
5		15 199		10	£5. D99	153.0	
•		15 130		3	15.059	45.3	
7		15 190		- 14	15.693	211. 4 33. 4	Ü
		1 160		29	1, 153	134, 5	-0
9	* 1	1 170		111	1.193	3994.7	
						9234.1	
*							
1 11	D 15	4 360	2. 235	T GI	5. 745	\$34.4	1
1 1	0 13	1 590	1. 183	58	5, 713	335. 8	
3	D 13	4 270	0.994	61	4, 244	258. 5	ì
	7,	15 150	•	32	15.495	483. 2	
		8 080		2	8. 037	16. 1	
	,	15 200	,	2	15, 109	30. 1	
7	-	500	•	61	9, 497	30. 3	•
1	,	490	,	207	9. 437	100. 1	•
FL	D 15	3 270	2. 235	113	7. 300	165. 7	
1	D 13	1 100	0.954	61	1.093	66. 7	
3	D 16	1 350	1. \$\$2	113	1. 695	249. 3	<u> </u>
4	D 13	2 936	8. 394	61	2. 512	177. 6	
5	•	15 190		. [0	15. 099	151.0	
	•	15 150		3	15, 099	15. 1	
1	•	15 190		14	15.093	111. 1	
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1 13	$\overline{}$	3 560	2. 235	6	8.851	535. 9	l
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	1 * 13			58	5, 289	335, 1 234, 1	l l
3	D 13	3 869	0.994	61	1. 837	234.1	
- 3	•	3 860 15 199	0. 954	+	1, 637 15, 693	234.1 483.2	
- <del>\$</del>	<del></del>	3 869 15 199 7 169	0.991	61 22	3, 837 15, 693 7, 067	234.1	
- 3	•	3 860 15 199	0.994	32 4	1, 637 15, 693	234. 1 483. 2 28. 3	
4 5 6	,	3 860 15 199 7 119 15 200	0.994	61 22 4 2	3, 637 15, 693 7, 667 65, 189	234.1 483.2 28.3 30.2	<u>}</u>
\$ 5 6 7		3 860 LS 199 7 119 LS 200 500	0.994	11 22 4 2	3, 837 15, 693 7, 667 15, 189 0, 497	234. 1 483. 2 28. 3 30. 2	-
\$ \$ \$ 7	,	3 860 15 199 7 169 15 200 500 450	0.994	61 22 4 2 51	3. 837 15. 693 7. 067 15. 189 0. 457 0. 487	234. 1 483. 2 28. 3 30. 2 30. 2	-
\$ \$ 6 7 8 F 1	B 19	3 860 ts 199 7 169 15 200 500 490 3 299	0. 954 	61 32 4 2 61 177 113	3.837 15.093 7.067 65.169 0.497 0.487 7.353	234.1 483.2 28.3 30.2 30.2 86.2	
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\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 19 5 12 5 16	3 560 15 199 7 110 15 200 500 490 3 290 1 080	4. 954   1. 235 6. 994 1. 553	61 22 4 2 61 177 118 61	3. 837 15. 693 7. 067 15. 189 0. 497 0. 487 7. 353 1. 874 2. 035	236.1 483.2 28.3 30.2 30.3 86.2 875.0 65.5	
5 6 7 8 F 1 1	D 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 299 1 080 1 350	0.994  2.235 9.994 1.552 0.994	61 32 4 2 61 177 118 61	3. 837 15. 693 7. 067 F5. 189 0. 497 0. 487 7. 353 1. 874 2. 935 2. 912	234.1 413.2 28.3 30.2 30.2 86.2 875.0 65.5 749.3 177.6 45.3	
\$ 5 6 7 7 2 8 F 1 1 2 3 4 5 5	B 19 B 12 B 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 2 930	0.994 	61 22 4 2 61 177 113 61 119 61 10	3.837 15.693 7.067 15.189 0.497 0.487 7.253 1.674 2.095 2.912	234.1 413.2 28.3 30.2 30.2 86.2 875.0 65.5 749.3 177.6 45.3	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 299 1 080 1 350 1 930 15 190 1 160	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.837 15.093 7.067 15.189 0.497 0.487 7.253 1.674 2.095 2.912 15.099 15.099	234.1 413.2 28.3 30.2 30.2 55.5 575.0 65.5 243.3 177.6 45.3 211.4	
5 5 6 6 1	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 2 930 15 190	0.954 , , , 1.235 0.994 1.551 0.994	61 22 4 2 61 177 113 61 119 61 10	3.837 15.093 7.067 15.189 0.497 0.487 7.253 1.874 2.095 2.912 15.099	234.1 483.2 28.3 30.2 30.2 86.2 875.0 65.5 249.3 177.6 45.3 411.4	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 299 1 080 1 350 1 930 15 190 1 160	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.837 15.093 7.067 15.189 0.497 0.487 7.253 1.674 2.095 2.912 15.099 15.099	234.1 413.2 28.3 30.2 30.2 55.5 575.0 65.5 243.3 177.6 45.3 211.4	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 1 5 150 15 150 1 15 150 1 160 1 170	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.897 15.093 7.067 15.189 0.457 0.487 7.353 1.674 2.095 2.912 15.099 15.099 1.153	234.1 413.2 28.3 30.2 30.2 55.5 243.2 177.6 45.3 411.4 23.4 114.5	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 299 1 080 1 350 1 930 15 190 1 160	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.837 15.093 7.067 85.189 0.487 7.353 1.874 2.095 2.912 15.099 15.099 1.153	234.1 483.2 28.3 30.2 30.2 85.2 875.0 65.5 249.3 177.6 45.3 211.4 23.4 134.9	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 1 5 150 15 150 1 15 150 1 160 1 170	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.897 15.093 7.067 15.189 0.487 7.353 1.874 2.095 2.912 15.099 15.099 1.153 7.163	234.1 483.2 28.3 30.2 30.2 85.2 875.0 65.5 749.3 777.6 151.0 45.3 211.4 214.9 2741.4	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 1 5 150 15 150 1 15 150 1 160 1 170	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 118 61 119 61 10 73 14	3.837 15.093 7.067 85.189 0.487 7.353 1.874 2.095 2.912 15.099 15.099 1.153	234.1 483.2 28.3 30.2 30.2 85.2 875.0 65.5 249.3 177.6 45.3 211.4 23.4 134.9	
5 5 7 8 F 1 1 3 4 5 6	6 19 D 12 D 16 D 13	3 860 15 199 7 110 15 200 500 490 3 295 1 080 1 350 1 5 150 15 150 1 15 150 1 160 1 170	0.954 , , , 1.235 9.994 1.551 0.991	61 22 4 2 61 177 113 61 119 61 10 3 14 29 116	3.897 15.093 7.067 15.189 0.487 7.353 1.874 2.095 2.912 15.099 15.099 1.153 7.163	234.1 483.2 28.3 30.2 30.2 85.2 875.0 65.5 243.3 177.6 151.0 45.3 111.4 211.4 211.4 5399.8	

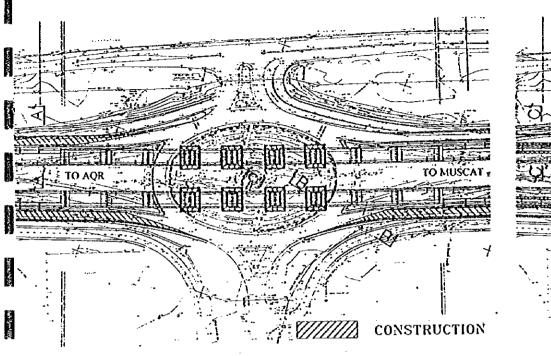
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: WINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAN	TITLE : R/A-2, A' NASEEM CARDEN RE-BAR ARRANGEMENT (20)
PACIFIC CONSULTANTS INTERNATIONAL	DEC NO W-44

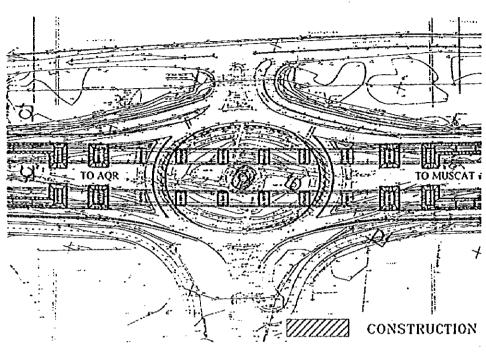
## TEMPORARY WORKS

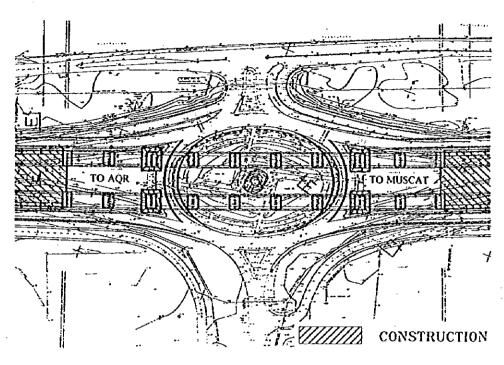
## FIRST CONSTRUCTION STAGE

## SECOND CONSTRUCTION STAGE

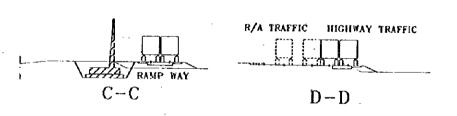
## THIRD CONSTRUCTION STAGE

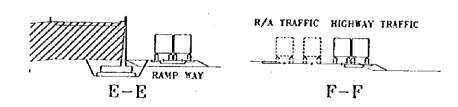












The traffic on the existing highway

Construction of ramp way (For temporary road) Construction of substructure (Internal area of existing R/A) The traffic detour to ramp way

Construction of substructure (External area of existing R/A) Construction of retaining wall

The traffic shift to internal area of existing R/A

Construction of substructure (External area of remaining section) Embankment for retaining wall section

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

JICA STUDY TEAM

PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE DATE

SEQUENCE OF A'NASEEM GARDEN F/O CONSTRUCTION DWGNO.

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