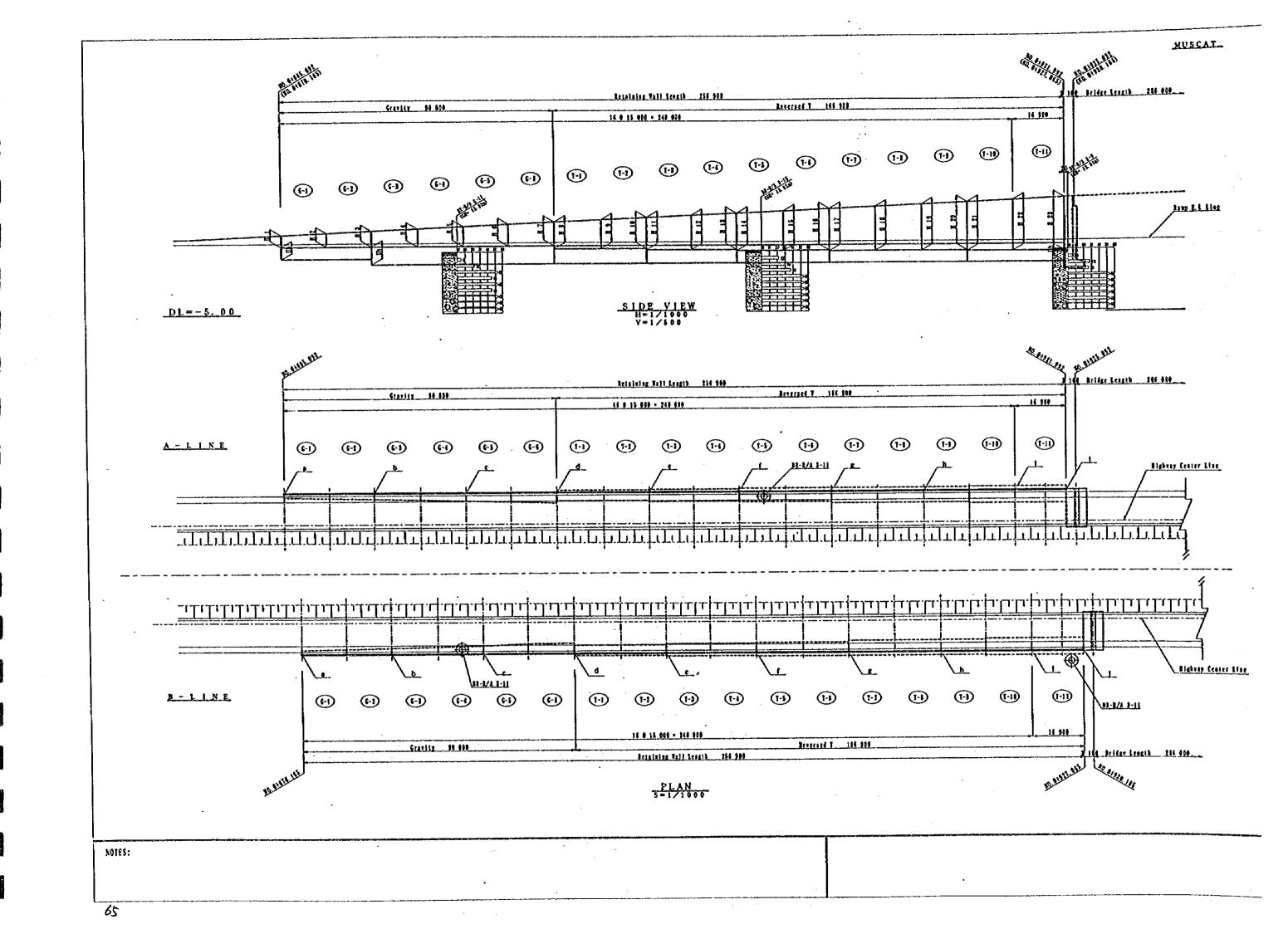
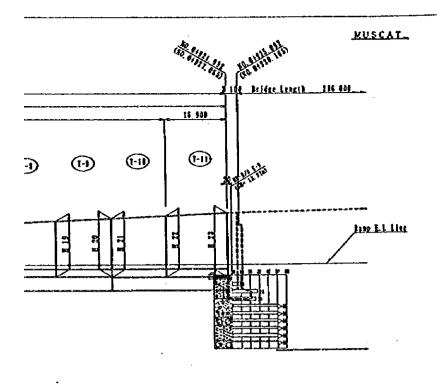
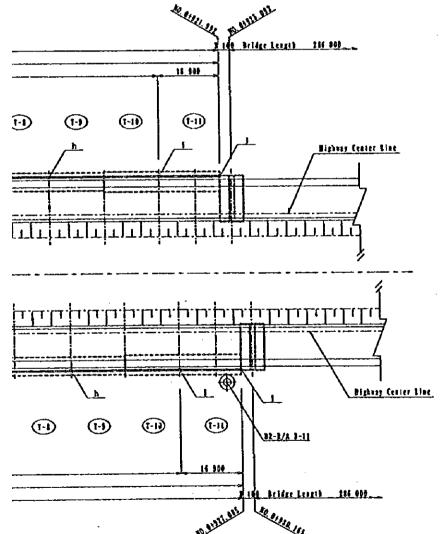
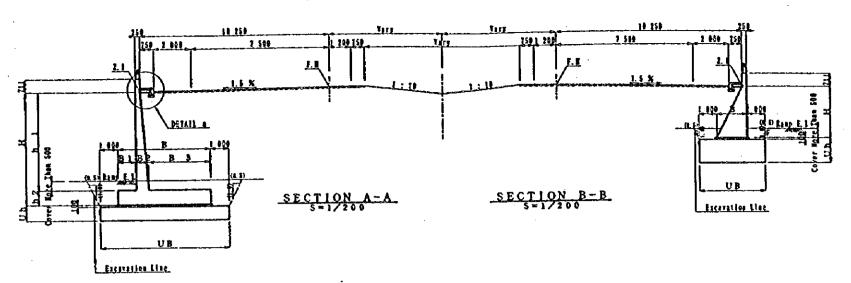
## STRUCTURE -RETAINING WALL



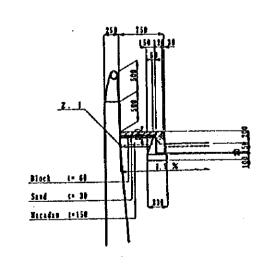






Re	<u>v e</u>	rsed_1	<u> </u>									·		· · · · · ·			
TYP	ARK	Н	h	1	h	2	В	В	1	В	2	В	3	U	h	บ	В
	<b>I</b> - 1	I 4-4 069		569		500	3 500	,	600		448		452	2	400	\$	500
	1- 1	3-4 5 0 7	4	007	İ						197		403				,
Α		10=4 9 4 4	4	444		700	4 0 0 0		800		543		657	2	200	6	000
	1- 1	11:6 5 4 6	4	846							570		630	ĺ			
1 1	1- 4	12-5 9 4 8									5 9 7	2	603	ĺ			
l . i	1- \$	14=6 1 4 8	\$	248	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	900	4 500	1	000		637	2	863	2	000	6	500
L	1	15-6 505	5	605							663	2	837	}			
١. ا	7- £	16=6 862			i						690	Ž	810	<u> </u>			
1	1- 2	11-6 962		962	1	000	5 0 0 0	1	0 0 D	<u> </u>	718		282	ļi	900	7	000
1		11-7 2 7 4	6	274	ļ					L	743		257	Į			
אן	1- 8	19-7 586	6	586			1			··	767		233	Į			
E	7- 9	24=7 853		853						<u> </u>	788		212	<b> </b>		<u> </u>	
-	1-14	21=7 9 5 3			1	100	5 500	)	200		814		486	י וּ	800	7	500
i	_	17-8 2 2 0	1	120			Ì		•	<u> </u>	836		464	ł			
<u></u>	1-11	13=8 4 7 9	<del></del>	379			<u> </u>	ļ	<u> </u>	<u> </u>	857		443	╄		<del> </del>	
1	<b>1</b> - 1	1 1-4 0 7 2	3	572	1	500	3 5 6 9	ţ	600	ļ	448	<del></del>	452	Į ₹	400	١,	500
	<del> </del>	9.4 5 1 0	4	010	1			1		<b> </b>	473	ļ	427	┨		1	
В	1- 1		4	447	}		<u> </u>			├	497		656	<del>                                     </del>	200		000
1	7- 1		<del> </del> -		{	700	4 000		800	<u> </u>	544 570	<del></del>	630	<b>1</b>	200	ľ	***
1 1	1- 1	11-5 549		849	1		l	1			597		603	1		1	
Ι,	<u> </u>	11-5 9 5 1	5	2 5 1		900	4 5 0 0	┥	000	╂	637		863		000		500
ΙL	t- s	14-6 1 5 1	<del>                                     </del>	608	1	,,,,	1 ****	Ι.		1	664		836	<b>₹</b> `		-	•••
-	7- 6		<b>├</b>	808			<b>l</b>	j			690		810	1		1	
1		12-6 0 6 6	<b>4</b> 5	965		000	5 0 0 0	+-	000		719		281	1	900	7	000
	1- 1	11-7 277	1 6	217	1 .	•••	1	[			743	4	267	1			
N	7- 8	15-7 5 8 9	+	589	1		l .	i		-	7 6 B	4	232	1		l	
1	T- 1				-		ţ	1			789	+	211	1		1	
E	1	#1.2 A E &	Ĺ_6	8 5 6	<u> </u>	100	5 5 0 0	1	200	1	814	1 3	486	1	800	7	500
1	3-11	12-8 2 2 3	1 1	123	] [			`			8 3 6	1 3	464	1		<b>I</b> .	
1	1-11		17	382	1			1			8 5 7	3	443	1			
<u> </u>		1 14-0 4 9 5	<u> </u>	201	ــــــــــــــــــــــــــــــــــــــ	<del></del>	1	·		J		4				<del></del>	

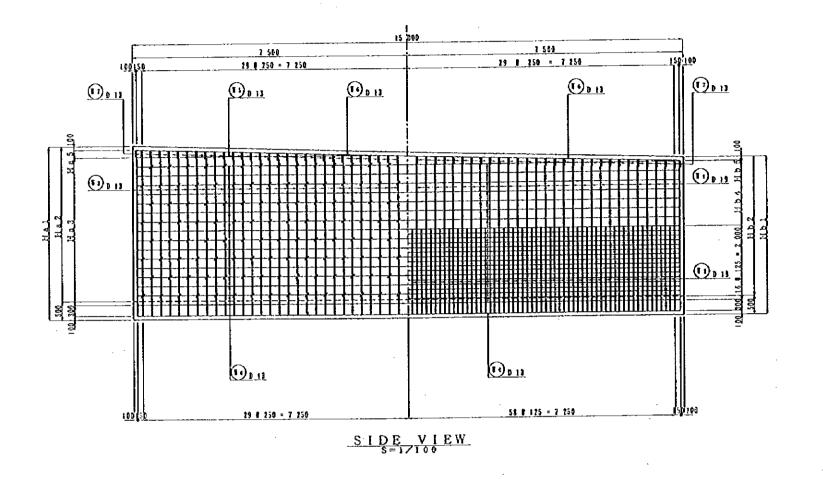
<u>Gr</u>	<u>a v</u>	l t y			
TYP	ARK	Н	В	Uh	U B
Α	6- 1	F1-1 546	1 2 3 6	2 0 0 0	3 2 3 6
	G- 1	3-2 104	1 4 1 3		3 4 1 3
L	6-1	1:2 141	1 806	2 900	3 8 0 6
N E	6-1	5-2 7 7 8 6-2 1 7 4	2 0 2 1		4 0 2 3
E	¢- 6	7=3 5 6 9	2 5 2 5		4 5 2 5
В	G- 1	2-1 828	1 2 3 7	2 000	3 2 3 7
l	6- 1	3=2 1 0 7	1 5 9 3	2 900	3 5 9 3
L	6-1	4-2 4 4 4	1808	2 900	3 8 0 8
N E	6- 5	6-3 177	2 0 2 3		4 0 2 3
E	f- £	1=3 572	2 5 2 1	<u> </u>	4 5 2 7

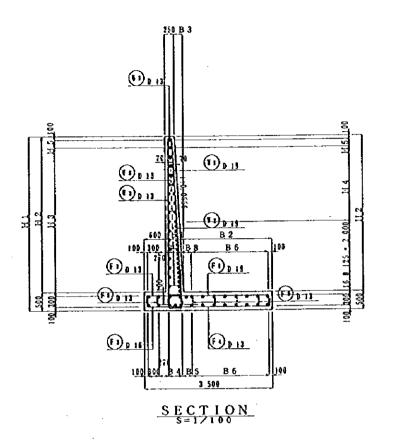


DETAIL a

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-S, AL MULADDAH GENERAL VIEW FOR WALL (1)-1
PACIFIC CONSULTANTS INTERNATIONAL FUNCTIONAL CONSULTANTS INTERNATIONAL	DATE	DYG NO. W - 1

Po	int	a	b	С	d	e	f	g	h .	i	5
Ā	l x	+2627123, 6490	9 + 2 6 2 7 1 2 8 . 5 6 4 6 2	+2627133.48015	+2627138.39568	+2627143.31120	+2627148. 22673	+2627153.14226	+2627158.05778	+2627162.97331	+2627166.2503
Ļ	E		9 + 558382.50634								
N E	z	7. 690	8.248	8. 922	9.713	10.588	11.392	12.106	12.730	13.264	13.570
B	N	+2627095.1391	7 + 2 6 2 7 1 0 0 . 0 5 4 7 0	+ 2 6 2 7 1 0 4 . 9 7 0 2 2	+ 2627109. 88575	+ 2 6 2 7 1 1 4 . 8 0 1 2 8	+2627119.71681	+2627124.63234	+2627129.54786	+2627134.46339	+ 2627137.7404
Ļ	Ε	+ 558357.6441	4 + 558387.23869	+ 558416.83325	+ 558446.42780	+ 558476.02235	4 558505.61691	+ 558535.21146	+ 558564.80601	+ 558594.40057	+ 558614.1302
Ž.	1	7, 690	8. 248	8.922	9.713	10.588	11.392	12.106	12.730	13.264	13.570





MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

DEG NO. W -3

D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

R/A-S, AL MULADDAH RE-BAR ARRANGEMENT (1)

CLIENT :

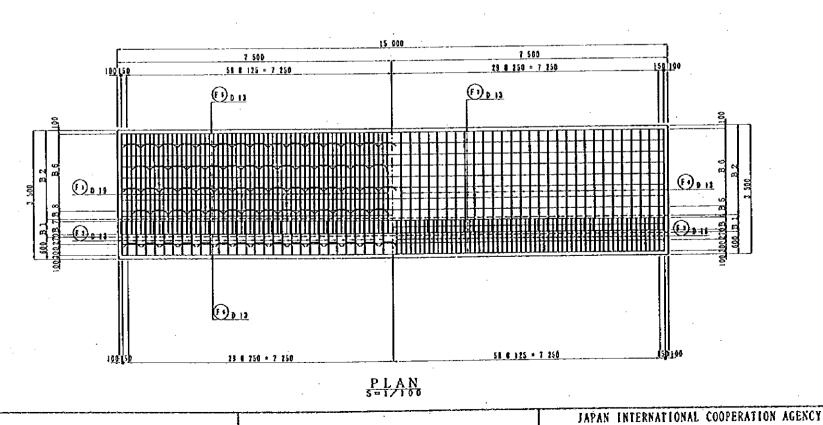
PROJECT :

TITLE

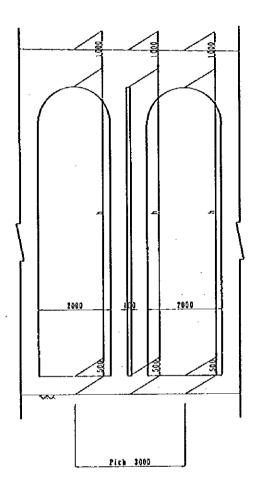
DATE

(IICA)

FUNCTION TO STATE THE PACIFIC CONSULTANTS INTERNATIONAL FUNCTION CONSULTANTS INTERNATIONAL

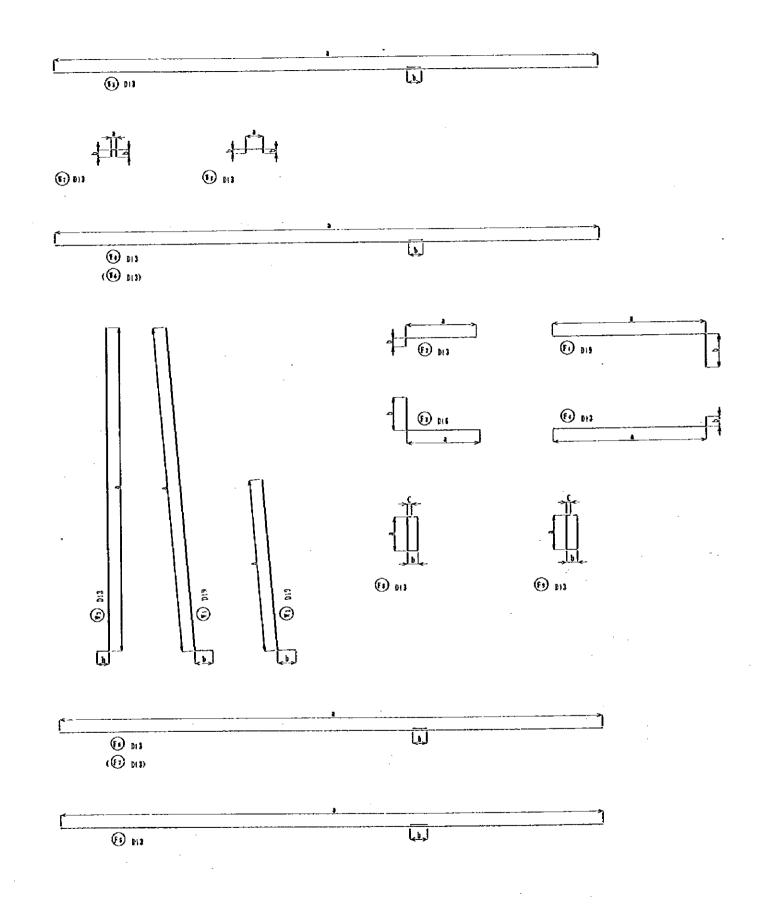


		(T-	<u> </u>			1-	2)	
		a - a		b - b		a - a		b – b
	Hal	4 0 6 9	Hb 1	4 5 0 7	Hal	4 5 0 7	ньі	4 9 4 4
	Ha2	3 5 6 9	НЪ2	4 0 0 7	H a 2	4 0 0 7	H b 2	4 4 4 4
Α	Ha 3	140250	Нь3	150250	H a 3	160250	H & 3	178250 = 4250
ı	Ha4	60250 = 1500	Н Ъ 4	70250 = 1750	Ha4	80250 = 2000	H b 4	9 0 2 5 0 = 2 2 5 0
	Ha5	6 9	Н Ь 5	20128. 5 = 257	Ha 5	7	Нъ5	194
L	Bal	448	B b 1	472	Bal	472	вьі	497
I	8 a 2	2 452	В b 2	2 4 2 8	B a 2	2 4 2 8	B b 2	2 4 0 3
N	ВаЗ	198	B b 3	2 2 2	В а 3	2 2 2	8 b 3	2 4 7
Е	B a 4	2 0 1 6 5 = 3 3 0	B b 4	20177. 5 = 355	B a 4	20177.5 = 355	8 b 4	20189.5 = 379
_	Ваб	300	B b 5	276	8 a 5	276	B b 5	2 5 1
	Ваб	76300 = 2 100	866	70300 = 2100	8 # 6	70300 = 2 100	В b 6	70300
	B a 7	313	B b 7	338	Ba7	3 3 8	B b 7	362
Į	B a 8	20158.5	Въ8	20146.5 = 293	ВаЗ	293	В <b>в 8</b>	2 5 8
		Ţ	<u> </u>			(T	- 2)	
İ		a – a		b - b		a a		b - b
	Hal	4 0 7 2	H b 1	4 5 1 0	il a 1	4 5 1 0	H b 1	4 9 4 7
	На2	3 5 7 2	H b 2	4 0 1 0	Ha 2	4 0 1 0	Нь2	4 4 4 7
В	На3	140250	НЬЗ	150250	НаЗ	16@250 = 4 000	11 b 3	179250 = 4 250
	H a 4	50250 = 1 500	Н Ъ 4	70250 = 1750	Ha4	80250 = 2000	нь 4	9 9 2 5 0 = 2 2 5 0
L	Ha5	7 2	нь 5	20130 = 260	H a 5	1 0	Нъ5	197
	Bai	4 4 8	ВЬ1	473	Bal	473	Въ 1	497
I	B 8 2	2 4 5 2	Вь2	2 4 2 7	B a 2	2 4 2 7	B b 2	2 4 0 3
N	B a 3	198	Вьз	2 2 3	B a 3	223	B b 3	2 4 7
E	Ba4	20165 = 330_	В Ъ 4	20177 = 354	B a 4	20177 = 354	B b 4	20189.5 = 379
	Ba5	300	B b 5	. 276	В а 5	276	В Ъ 5	251
	Ba6	70300	Вь€	78300	Ba6	70300 = 2 100	B b 6	70300 = 2100
	8 a 7	313	В Б 7	3 3 8	B a 7	338	В Б 7	362
	B a 8	20158.5 = 317	B b 8	20146 = 292	Ba8	292	B b 8	268



Slit Shape in Front of Tall (Thickness 1=30 pm)

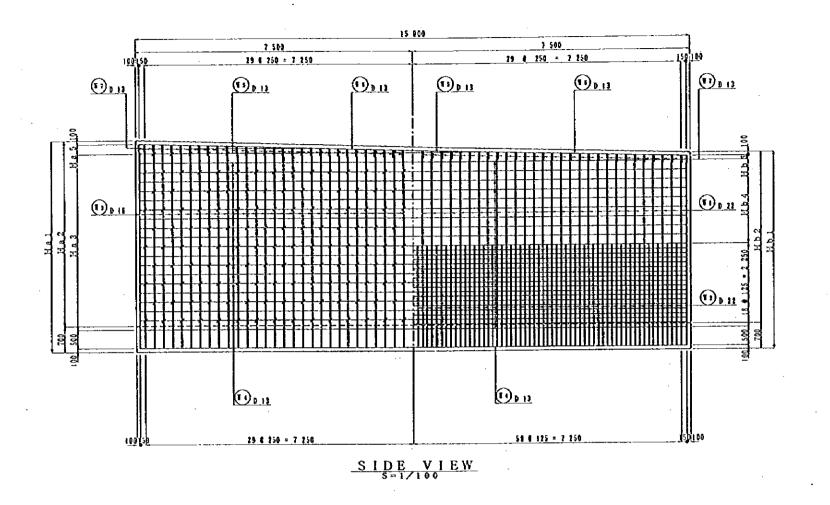
_		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT	:	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
		(JICA)	PROJECT	:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
.		JICA STUDY TEAN	TITLE	:	R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (2)
	-	PACIFIC CONSULTANTS INTERNATIONAL FUNUANA CONSULTANTS INTERNATIONAL	DATE		- DNG NO. W - 4

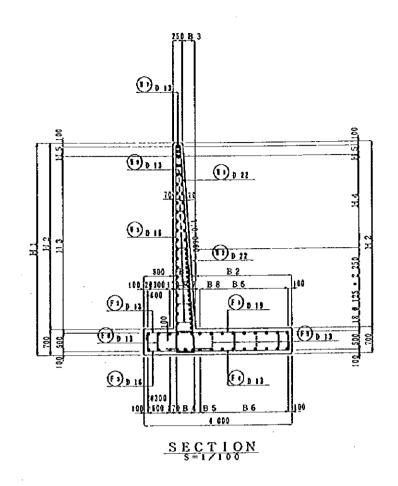


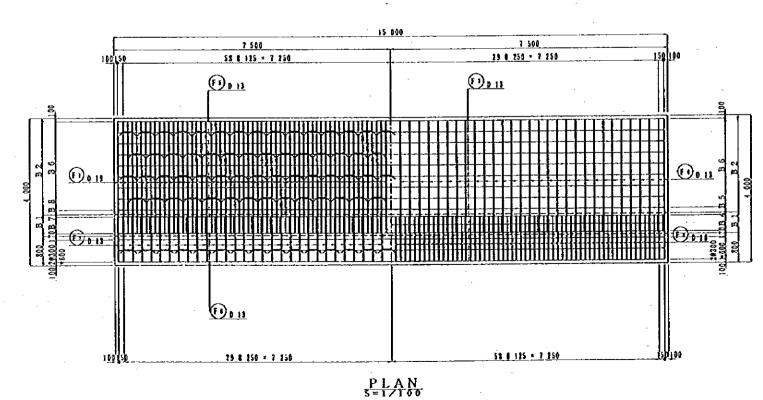
REIN	\$ (co)	(ESCIII	ı	)	c
<u>50. 1</u>		(84)	I		
1	D 19	4 390	4 314~3 175	285	
- ;	0 13	2 590	2 304	285	
3	D 13	4 290	4 307~3 165	195	
		1\$ 190	14 800	390	
		6 610	4 401~8 801		
		15 200	14 806	390	
-		590	119	195	
	-	500	353~187	111	
	Dis	3 370	2 963	300	
F 1	D 13	1 110	908	195	
			1 050	300	
3	D 16	1 355	2 730	135	
	9 13	1 930	14 800	390	
\$		15 190	·	390	<del></del>
- 6	•	15 190	14 890	390	
7	-	15 190	14 800		
8		1 160	328	279	
		1 179	329	261	111
		<del></del>			
11			14 200- 4 300	285	
11	D 13	4 129	4 751~4 314 2 304	285	
- 1		1 590	<del></del>	195	
3	D 13	4 730	4 714~4 307	398	
4	-	15 (90	14 899		
- 5		6 668	F 553	390	
	-	15 200	16 806		
	-	. 500	118	135	
1	•	\$10	377~183	111	
F 1	0 19	3 240	1 938	350	<del></del>
	D 13	1 130	932	300	<del></del>
1	D 16	1 350	L 050		<del> </del> _
<u> </u>	D 11	2 930	7 730	- 195	<del> </del>
- 5		15 190	14 800	398	
		1\$ 150	14 800	390	
7		1\$ 150	14 800	390	<del></del>
1		1 160	328	275	111
3		1 178	329	212	111
ļ					
<b></b> _	_				
<b>!</b>					
1					

REIN	φ (23)	LESGIE		b	(
<u>M  </u>		(23)	<u> </u>		<u> </u>
		4.938	4 317~3 373	285	
-	D 19	4 390	·	285	
		2 590	1 304		
	D 13	4 796	4 310~3 872	195	<u> </u>
4		15 190	14 805	390	
S	•	6 680 ·	4 452~1 904		
6	,	15 200	14 806	390	
7	•	500	110	195	
1		500	353~187	111	
F 1	0 15	3 270	1 962	300	
1	D 13	1 110	538	195	
3	D 16	1 350	1 050	300	
ŧ	P 13	2 530	2 730	195	
5	•	15 194	14 800	290	
í	,	15 190	14 800	390	l
7	•	15 150	14 600	396	
	*	1 160	328	279	101
3	,	1 170	375	262	101
			1		
11					
1 )	D 15	4 \$30	4 754~4 317	285	
<del>-                                    </del>	***	2 593	2 304	285	
3	D 13	4 138	4 747~4 310	195	
	,	15 150	14 800	390	
5		\$ 770	6 762		
		15 200	14 866	390	
- 6		\$00	110	195	<b></b>
7			· <del></del>	111	<del></del>
_ :	, ,	\$10	377~183	300	<del> </del>
Fi	D 19	\$ 240	2 938	195	
- 1	D 13	1 139	932	300	<del> </del> -
	D 15	1 350	1 050		<del> </del>
	D 13	2 930	2 730	195	<del> </del> _
5	,	15 190	14 800	390	<u> </u>
- 6	•	15 190	14 830	390	ļ <del></del>
7	•	15 190	14 800	890	<del> </del>
3	,	1 160	328	179	111
5		1 170	129	282	101

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 TEAY	TITLE :	R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (3)
 PACIFIC CONSULTANTS INTERNATIONAL FUKUYANA CONSULTANTS INTERNATIONAL	DATE	DRG NO. W-5







IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

FICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FICKLYAMA CONSULTANTS INTERNATIONAL
DATE

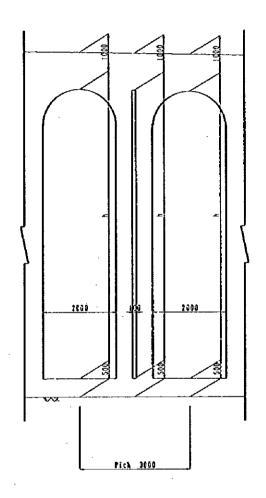
DATE

DATE

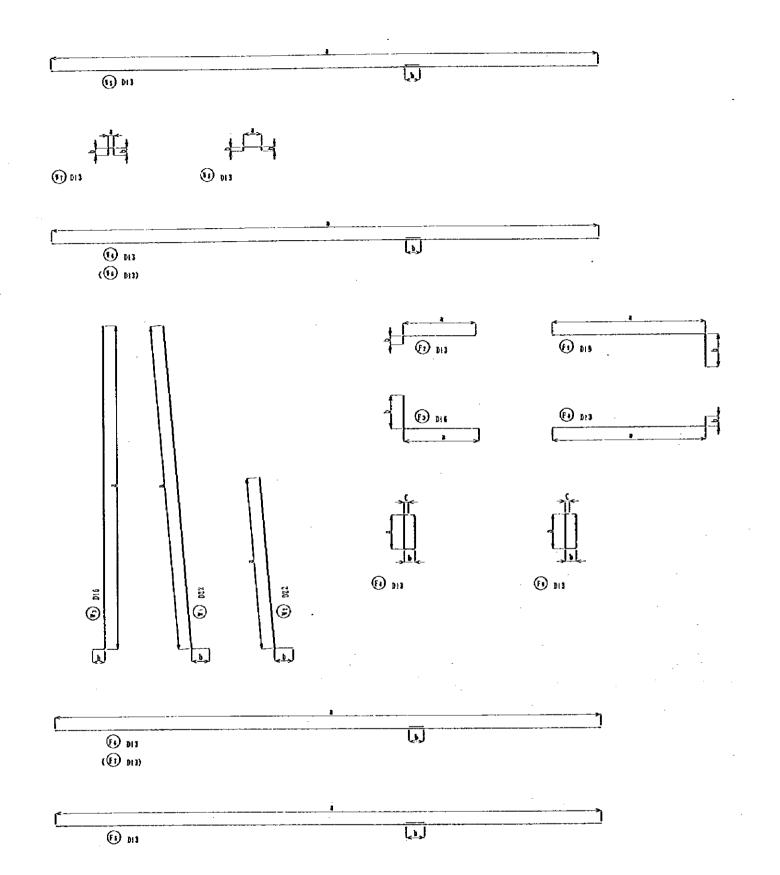
DATE

DIVING NO. W - 6

	[	(T-	3)			(T-	1)	
		a - a		b - b		a a		b – b
	Ha1	5 1 4 4	H b 1	5 5 4 6	Ha1	5 5 4 6	ньі	5 9 4 8
	H a 2	4 4 4 4	Нъ2	4 8 4 6	Ha2	4 8 4 6	НЪ2	5 2 4 8
Α	Ha3	170250 = 4 250	ньз	190250	На 3	190250 = 4750	Н Б З	20@250 = 5 000
	Ha4	90250	НЪ4	100250 = 2500	ila 4	100250	Н Б 4	1 1 @ 2 5 0 = 2 7 5 0
โ	11 a 5	194	нъ5	9 6	H a 5	9 6	Н Ь 5	2 4 8
	Ba1	5 4 3	Въі	5 7 0	Bal	5 7 0	B b 1	597
I	Ba2	2 6 5 7	В в 2	2 6 3 0	B a 2	2 6 3 0	В Ъ 2	2 6 0 3
Ń	ВаЗ	293	B b 3	3 2 0	Ва 3	320	Въз	3 4 7
Е	B a 4	20221 = 442	B b 4	20234.5 = 469	Ba4	20234.5 = 469	B b 4	20248 = 496
l	Ba5	188	B b 5	161	Ba5	161	Въ5	134
	Ba6	8@300 = 2 400	B b 6	80300 = 2400	Ba6	8@300 = 2400	B & 6	80300 = 2400
	B a 7	409	B b 7	4 3 6	Ba7	436	B b 7	463
	8 a 8	2 2 1	В Ь 8	194	Ba8	194	B b 8	167
		Ţ	-3)			(T	-4)	
ŀ		a a		b - b		a - a		b - b
	Hai	5 1 4 7	H b 1	5 5 4 9	Ha1	5 5 4 9	H b 1	5 9 5 1
ĺ	Ha2	4 4 4 7	H b 2	4 8 4 9	Ha2	4 8 4 9	H b 2	5 2 5 1
В	Ha 3	17@250 $= 4250$	Н Ъ З	190250 = 4750	Ha 3	190250 = 4750	ньз	200250 = 5000
1	Ha4	9 @ 2 5 0 = 2 2 5 0	H b 4	100250	11 8 4	100250	H b 4	110250 = 2750
L	Ha5	197	Н Ъ 5	9 9	11 8 5	9 9	II b 5	20125.5 $= 251$
	Ba 1	5 4 4	вы	570	Bal	570	Выг	597
!	B a 2	2 6 5 6	8 b 2	2 6 3 0	B a 2	2 6 3 0	В b 2	2 6 0 3
N	ВаЗ	294	B b 3	320	ВаЗ	320	В в 3	3 4 7
E	Ba4	20221.5 = 443	B b 4	20234.5 = 459	B a 4	20234.5	B b 4	2 6 2 4 8 = 4 9 6
	Ba 5	187	В Б 5	- 161	Ba 5	161	ВЬ5	. 134
	B a 6	80300 = 2400	В Б 6	8 @ 3 0 0 = 2 4 0 0	B & 6	8 @ 3 0 0 = 2 4 0 0	В Ъ б	80300 = 2400
	Ba7	410	B b 7	436	Ba7	436	8 b 7	463
1	Ba8	220	8 6 8	194	Ba8	194	B b 8	167



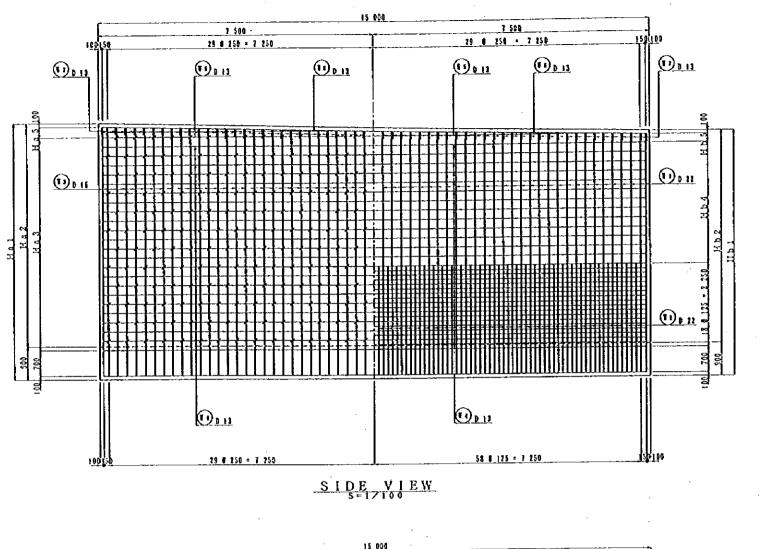
Slif Shape in Front of Tall
(Thickness f=30 ma)

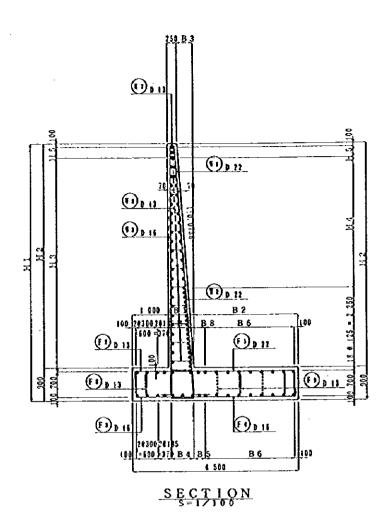


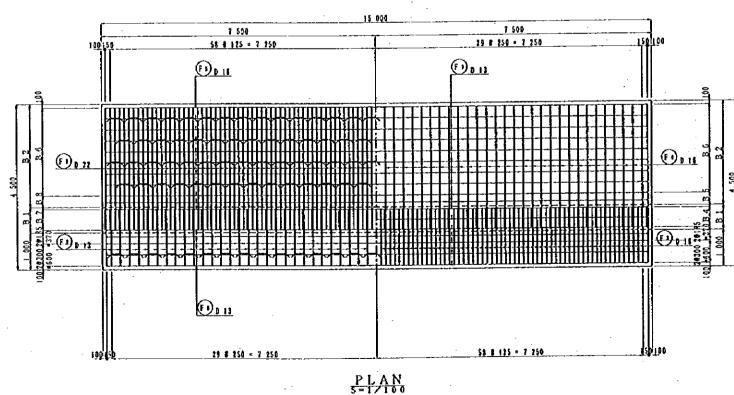
REIS	φ (a s)	LENGTB (pr)	à	ь	c c
<u> </u>		798,	L	<u> </u>	t
11	D 22	\$ 490	5 358~4 955	330	
	,	3 690	1 756	130	<del></del>
	D 16	5 390	5 315~4 341	240	~~-
-	D 13	15 190	11 500	390	
5	,	8 450	3 582~12 310	390	
6	<del></del>	15 200	14 805	390	
	,	500	110	135	
	-	550	452~188	111	
FI	D 13	3 670	3 164	500	<del></del>
1	D 11	1 414	1 206	195	
	D 16	1 750	1 250	500	
	D 13	3 230	1 010	135	
	,	15 190	14 800	390	<del></del>
		15 190	14 800	390	
•	- <u>-</u> -	15 190	14 800	390	
	-	1 560	528	279	111
-		1 570	529	282	111
<del>                                     </del>	l	, , ,,,			<del>``</del>
T 4					
1	D 22	\$ 890	5 761~5 358	330	
<del>                                     </del>	<del>                                     </del>	3 090	2 756	330	
3	0 16	5 790	5 748~5 346	740	
4	D 13	15 190	14 800	390	
<del> </del>	<del>                                     </del>	9 160	9 254		
1		15 200	14 805	390	<del> </del>
7		500	119	195	
-	<b></b> -	570	479~214	111	
F	0 19	3 640	3 137	500	
1	0 13	1 436	1 233	195	
1	B 16	1 750	1 250	500	
1	D 13	3 230	3 030	135	
5		15 190	14 800	390	1
1 1	•	15 190	14 690	390	
7	-	15 190	14 850	390	T —
8	-	1 560	528	273	111
,	·	1 570	529	282	111
l			· · · · ·		
		· ·		<u>.                                    </u>	
l					

RE IX	Ġ (E2)	LENGTE (ru)	ı	b	e
11	اا				
5 1	D 22	5 43D	5 361-4 558	330	
1		3 090	7 756	330	
3	D 16	5 390	5 349~4 947	240	
	D 13	15 190	14 800	390	
		B 560	3 694~13 622	390	
	,	15 200	14 805	399	
7		500	)19	195	
		550	452~188	111	
FI	D 19	3 670	3 164	500	
1	D 11	1 410	1 204	195	
3	D 16	1 750	1 250	500	
4	D 13	3 230	3 030	135	
5	•	15 199	14 800	390	
6	,	t\$ 190	14 800	390	
7	-,	15 190	t4 800	390	
8		1 550	521	273	3(1
9	<b>3</b> .	1 570	529	182	111
14					
<b>T</b> 1	D 22	5 500	5 764~5 361	130	
2		2 090	2 756	330	
3	D 16	5 790	\$ 751~5 349	240	
1	D 12	£\$ 190	14 800	190	
\$	•	7 030	4 683~9 366		<u> </u>
- 6	•	15 200	14 805	390	
3	•	500	110	195	
ł	•	\$74	475~215	- 111	ļ
Fl	D 19	3 649	3 137	500	
2	D 13	1 439	1 233	195	
3	D 38	1 750	1 250	500	
4	0 13	3 230	3 030	195	ļ ——
. 5		15 190	14 8û0	390	
6		35 190	14 800	350	
1		15 190	14 800	350	
1	•	1 560	528	273	111
3	<u>.</u>	1 574	\$25	282	111
					<del></del>
	··· —				<u> </u>

	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT	:	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JICA)	PROJECT	:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
- 1	JICA SILDY TEAN	TITLE		R/A-5. AL MULADDAH RE-BAR ARRANGEMENT (6)
	PACIFIC CONSULTANTS INTERNATIONAL FUTURANA CONSULTANTS INTERNATIONAL	DATE		DEC NO. W-8







IAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

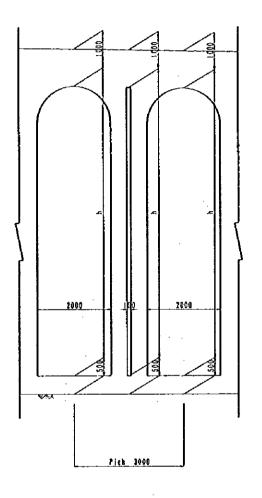
TITLE: R/A-S, AL MULADDAH RE-BAR ARRANGEMENT (7)

PACIFIC CONSULTANTS INTERNATIONAL
FURUYANA CONSULTANTS INTERNATIONAL
DATE

DATE

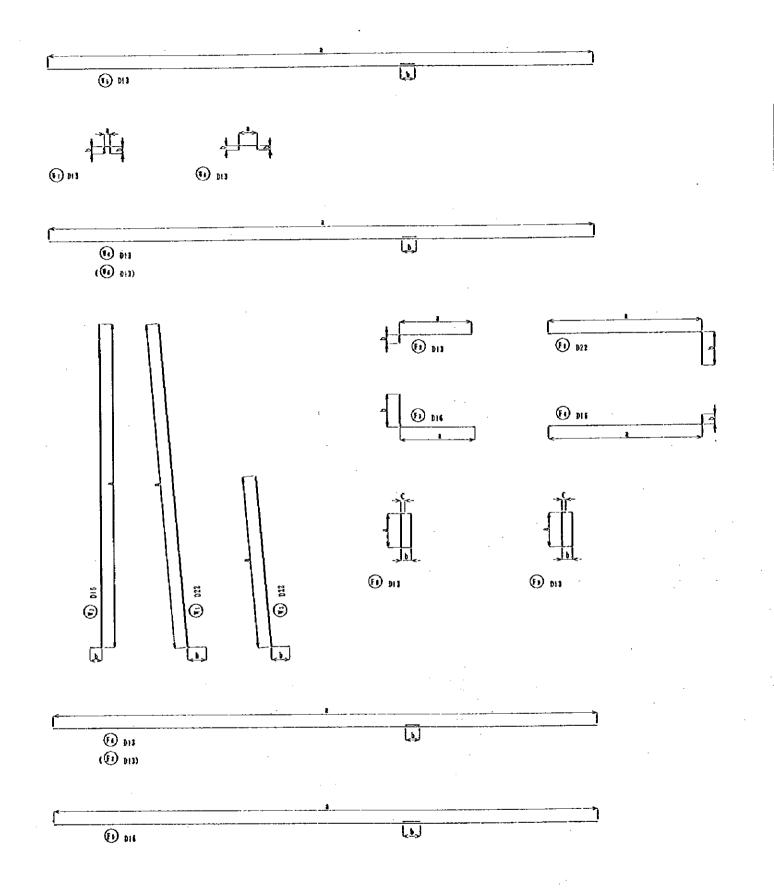
DATE

		(T-	5)			(T-	6)	
	]	a - a		b - b		a – a		b - b
	Ha 1	6 1 4 8	11 b 1	6 5 0 5	Hal	6 5 0 5	1161	6 8 6 2
	На2	5 2 4 8	Н b 2	5 6 0 5	Ha 2	5 6 0 5	Нь2	5 9 6 2
A	На 3	200250	ньз	2 2 0 2 5 0 = 5 5 0 0	НаЗ	22 <b>0</b> 250 = 5 500	H b 3	230250 = 5750
	Ha 4	1 1 9 2 5 0 = 2 7 5 0	Н Ъ 4	130250 = 3250	lia 4	130250 = 3 250	H b 4	140250
	H a 5	2 4 8	H b 5	105	Ha5	105	нь5	212
1.	Bal	637	8 b 1	663	S a l	663	B b 1	690
1	B a 2	2 8 6 3	В b 2	2837	8 a 2	2837	В в 2	2 5 1 0
N	Ba3	387	В b 3	413	B a 3	413	В <b>b</b> 3	440
E	Ba4	20278	B b 4	20291 = 582	Ba4	2 @ 2 9 1 = 5 8 2	B b 4	20304 = 608
-	Ва 5	20187	В <b>b</b> 5	20174 = 348	Баб	20174 = 348	8 <b>b</b> 5	2 @ 1 6 1 = 3 2 2
	Ba6	80300 = 2400	В <b>ъ</b> 6	8 9 3 0 0 == 2 4 0 0	Ваб	8 <b>9 3 0 0</b> = 2 4 0 0	8 b 6	8 @ 3 0 0 = 2 4 0 0
1	8 a 7	504	В в 7	5 3 0	B a 7	530	8 b 7	5 5 7
	8 8 8	20213 = 426	B b 8	20200 = 400	8 a 8	2 @ 2 D O = 4 D O	В b 8	20186.5 = 373
		Ţ	-5)			(T	-6)	
		a – a		b - b		a – a		b - b
	lia i	6 1 5 1	нъі	6 5 0 8	Ha1	6 5 0 8	нь 1	6 8 5 5
	lia 2	5 2 5 1	Ηр5	5 6 0 8	Ha2	5 6 0 8	Н Ь 2	5 9 5 5
В	Ha3	210250 = 5 250	ньз	220250 = 5 500	Ha 3	220250	11 b 3	23@250 = 5 750
1	Ha4	120250	нъ4	130250	Ha 4	130250	11 b 4	140250 = 3 500
l i.	Ha5	1	нь5	108	Ha5	108	H b 5	215
1	Bal	6 3 7	B b 1	669	Bal	669	Въз	690
1	8 a 2	2 8 6 3	В Б 2	2 8 3 6	Ba2	2836	B b 2	2 8 1 0
N	ВаЗ	387	В в 3	414	Ba3	414	Вьз	440
E	Ba4	20278 = 556	B b 4	2 @ 2 9 1 == 5 8 2	Ba4	20291 = 582	B b 4	20304.5 = 609
	Ba5	20187 = 374	В Ь 5	2 @ 1 7 4 = 3 4 8	Ba5	20174 = 348	B b 5	2@160.5 = 321
1	8 a 6	80300 = 2400	B b 6	80300 = 2400	B a 6	80300 = 2400	B b 6	80300 = 2400
	Ba7	504	B b 7	531	Ba7	5 3 1	В Ь 7	557
	Ba8	2 @ 2 1 3 = 4 2 6	въ8	20199. 5 = 399	Вав	20199.5 = 399	В b 8	20186.5 = 373



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

ш			
ŀ	NATOR	JAPAN INTERNATIONAL COOPERATION ACENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	NOIES:	(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
ı	·	JICA STUDY TEAN	TITLE : R/A-5. AL MULADDAH RE-BAR ARRANGEMENT (8)
		PACIFIC CONSULTANTS INTERNATIONAL FUNCIANA CONSULTANTS INTERNATIONAL	DATE DEG NO.W-!O

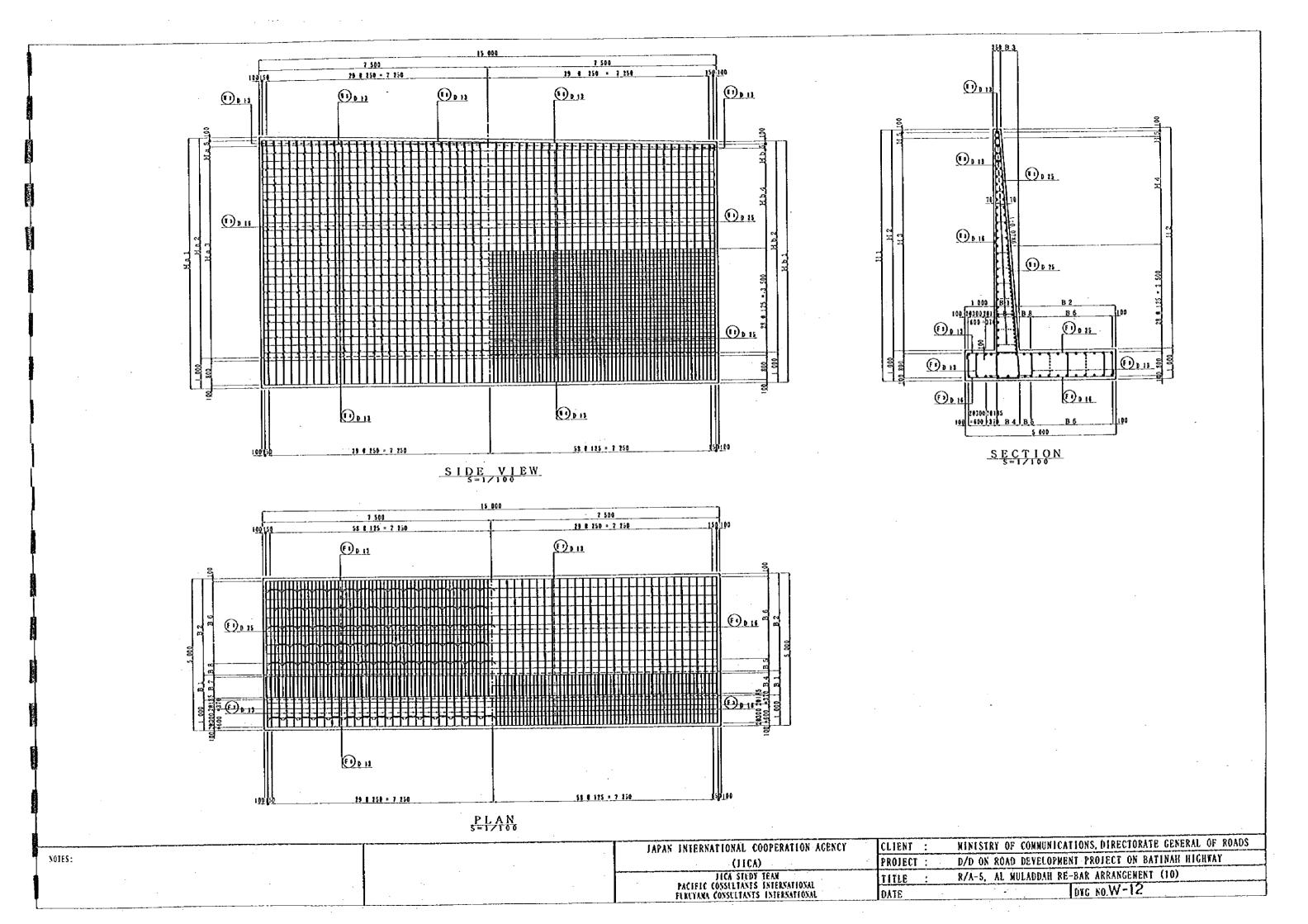


Motes:

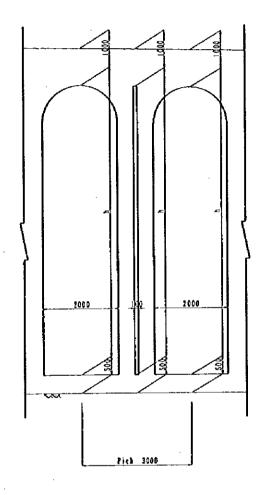
NO.	¢ (22)	, .	1	b	C			
		(11)	ll		L			
7 1	D 22	€ 480	6 322~5 964	330				
* 1	B 44	3 190	2 358	330				
3	D 16	6 370	1 305~5 948	240				
		15 190	14 800	330	- ==			
_!	D 13	3 100	4 411-14 750	390				
- 5			14 804	390				
		15 200		195				
	-	500	110	111				
- 1	* 1	600	5(1~21)	780				
Fl	D 22	4 160	3 450	195				
1	D 13	1 200	1 500	193	<del></del>			
3	DIE	1 150	1 450		<u> </u>			
		3 570	3 330	240	<del></del>			
5		15 180	14 800	450	ļ			
	D 13	15 190	14 800	394				
. 7		15 190	14 800	394				
- 1		1 360	728	273	111			
3		1 980	732	285	* H1			
7.6								
1 1	D 22	6 840	6 650~ 6 322	330	ļ <del>.</del>			
2	•	3 250	2 958	330				
3	D 16	E 730	6 661~6 305	249	ļ <u> </u>			
- 4	0 13	15 190	14 800	390				
5		E 310	8 908		<u> </u>			
6	•	15 200	14 604	330				
1		500	110	195	<u> </u>			
1		610	\$11~202	111				
Fi	D 22	4 140	3 433	700				
. 1	D 13	1 730	1 527	195				
3	D 16	2 156	1 450	700				
- 4		3 570	3 330	249				
\$		15 280	14 800	489				
6	D 11	15 150	14 800	130				
7	4	15 190	14 800	339	<u> </u>			
1		1 560	728	175	111			
,	•	1 580	732	285	111			
[								

REIN		LENGIE										
<b>SO.</b>	\$ (xx)	(EX)	ž	b								
15												
¥ 1	D 22	\$ 480	6 325~5 967	330								
1	,	3 290	2 958	330								
3	D 16	6 370	6 303~5 950	240								
- 4	D 13	15 139	14 800	390								
\$	,	4 548	4 538									
-		15 200	14 804	390								
7		500	110	195								
8	•	610	545~213	111								
ξį	B 22	4 (50	3 453	700								
1	D 13	1 700	1 501	195								
3	D 18	2 158	1 450	100								
		3 578	3 330	240	<del></del>							
5	,	15 280	14 800	180								
	D 13	15 130	14 800	390								
. 7	,	15 190	14 800	390								
ŀ	•	1 950	728	175	111							
3	,	1 980	732	285	111							
	·		L	·								
16												
11	0 11	6 249	6 683~6 325	330	<u> </u>							
1	•	3 290	2 958	330								
3	B 16	6 730	£ 665~6 308	240								
4	D 13	15 190	14 800	290								
5	,	9 040	9 034									
		15 200	14 804	390								
1	•	500	118	195								
<u>_</u>	,	618	571~202	111								
Fì	0 22	4 140	3 433	700	ļ							
1	D 13	1 730	1 527	155								
3	D 16	2 150	1 450	700	—							
4	-	3 570	3 330	240	[ ]							
5	٠,	15 280	14 800	489								
	D 13	15 190	14 800	390								
	<del>                                     </del>	15 190	14 800	390								
-	<b>-</b> ,-	1 960	723	273	111							
	,	1 980	732	285	116							
	L	1	L									
-												

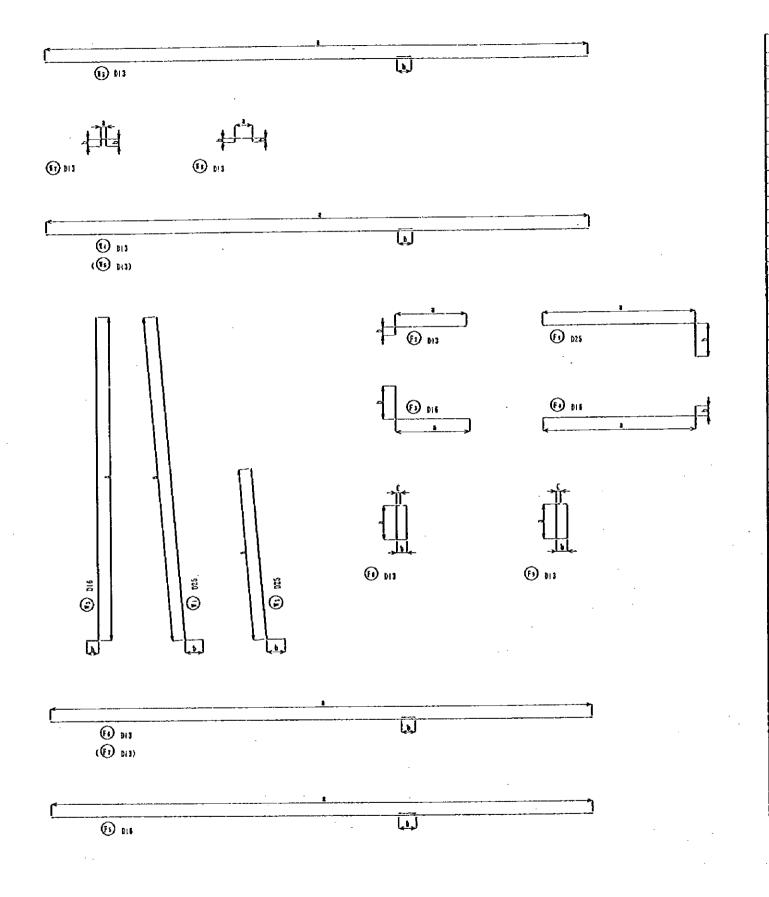
	and the second of the second o	
	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
:	(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	SICA STUDY TEAN	TITLE: R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (9)
	PACIFIC CÓNSULTANTS INTERNATIONAL FUKUYANA CONSULTANTS INTERNATIONAL	DATE DWG NO. W -1 1



[		<u>(T-</u>	1)		<del></del>	(T-	8)			(T-	9)	
İ		a - a		b - b	1	a - a		b - b		a – a		b - b
	Hal	6 9 6 2	11 b 1	7 274	Ha 1	7 2 7 4	ньі	7 5 8 6	H a 1	7 586	ньі	7 8 5 3
	H a 2	5 9 6 2	нь2	6 2 7 4	Ha2	6 2 7 4	H b 2	5 5 8 6	Ha2	6 5 8 6	II b 2	6 8 5 3
Α	Ha3	230250	Hb3	240250 = 6 000	H a 3	240250	нь з	250250	Ha3	250250 = 6 250	ньз	260250 = 6500
	H a 4	90250 = 2250	Н Ъ 4	109250	Ha4	100250	Н Ь 4	110350	II a 4	110250 = 2750	Н Ъ 4	120250
	Ha5	212	Нъ5	20137	Ha 5	2 @ 1 3 7 = 2 7 4	н ъ 5	20168	11 a 5	20168 = 336	нь 5	20176.5 = 353
L	8 a 1	718	B b 1	7 4 3	Bal	7 4 3	Въз	767	Bal	767	8 <b>b</b> 1	788
I	Ba2	3 2 8 2	B b 2	3 2 5 7	8 a 2	3 2 5 7	B b 2	3 2 3 3	Ba2	3 2 3 3	895	3 2 1 2
N	ВаЗ	468	B b 3	493	B a 3	493	В Ь 3	517	ВаЗ	517	вьз	5 3 8
E	Ba4	20324.5	B b 4	2 @ 3 3 ? = 6 7 4	B a 4	2 @ 3 3 7 = 6 7 4	В Б 4	2 Ø 3 4 9 = 6 9 8	8 a 4	2 @ 3 4 9 = 6 9 8	B b 4	20359.5 = 719
	Ba5	20240.5	B b 5	20228 = 456	B = 5	2 6 2 2 8 = 4 5 6	В b 5	20216 = 432	B a 5	2 @ 2 1 6 = 4 3 2	В в 5	20237 = 474
	Ba6	98300	B b 6	99300	8 a 6	98300	B b 6	99300	Ваб	90300	В Б 6	90300
	B a 7	586	B b 7	611	Ba7	611	В Б 7	6 3 5	Ba7	635	8 b 7	6 5 6
	Ba8	20272	в в 8	20259.5 = 519	Ba8	20259.5 = 519	B b 8	20247.5 = 495	Ba8	20247.5	Във	2 @ 2 3 7 = 4 7 4
		(T	7)		<u></u>	T	-8)			(T)	9)	
		a – a		b - b		a - a		b - b		a - a	<b> </b>	b - b
	Hal	6 9 6 5	ньі	7 2 7 7	Ha 1	7 277	H b 1	7 5 8 9	H s i	7 589	Hb1	7 8 5 6
	II a 2	5 9 6 5	H b 2	6 2 7 7	H a 2	6 2 7 7	H b 2	6 5 8 9	Ha2	6 5 8 9 2 5 @ 2 5 0	нь2	6 8 5 6 2 6 <del>0</del> 2 5 0
В	Ha3	230250 = 5750	H b 3	240250 = 6000	Ha3	24@250 = 6 000	H b 3	250250 = 6250	Ha3	= 6250 $= 110250$	нь 3	= 6 5 0 0 1 2 @ 2 5 0
	Ha4	\$ @ 2 5 0 = 2 2 5 0	H b 4	100250	Ha4	100250	НЬ4	110250	Ha4	= 2 7 5 0 2 0 1 6 9 . 5	НЬ4	= 3 0 0 0 2 0 1 7 8
L	Ha5	215	нь 5	20138.5 $= 277$	Ha5	20138.5 = 277	Нь5	20169.5 = 339	Ha5	= 339	11 b 5	= 356
	Bal	719	B b 1	7 4 3	Bal	7 4 3	ВЬІ	768	Bal	768	861	789
1	8 a 2	3 2 8 1	B b 2	3 2 5 7	B a 2	3 2 5 7	Б Ъ З	3 2 3 2	Ba2	3 2 3 2	ВЬ2	3 2 1 1
N N	Ba 3		Вьз	493	Ba3	493	Вьз	518 20349.5	ВаЗ	518 2@349.5	B b 3	539 20360
Е	Ba4	20325	B b 4	2 @ 3 3 7	Ba4	= 674	B b 4	= 699 20215.5	Ba4	= 699 20215. S	B b 4	= 720 20205
	8 a 5	26240	ВЬ5	20228 = 456	Ва5	20228 = 456 90300	В Ь 5	= 431 90300	Ba5	= 431 9@300	B b 5	= 410 90300
	B a 6	90300	В b 6	99300	Ba6	= 2 700	8 b 6	= 2 700	Bab	= 2 700	B b 6	= 2 700
	B a 7		В в 7	611	Ba7	611	В в 7	636	Ba7	636	B b 7	657
L	Ba8	20271.5 = 543	В Ь 8	2 <b>9</b> 2 5 9 . 5 = 5 1 9	B a 8	= 519	B b 8	= 494	Вав	= 494	1868	= 473



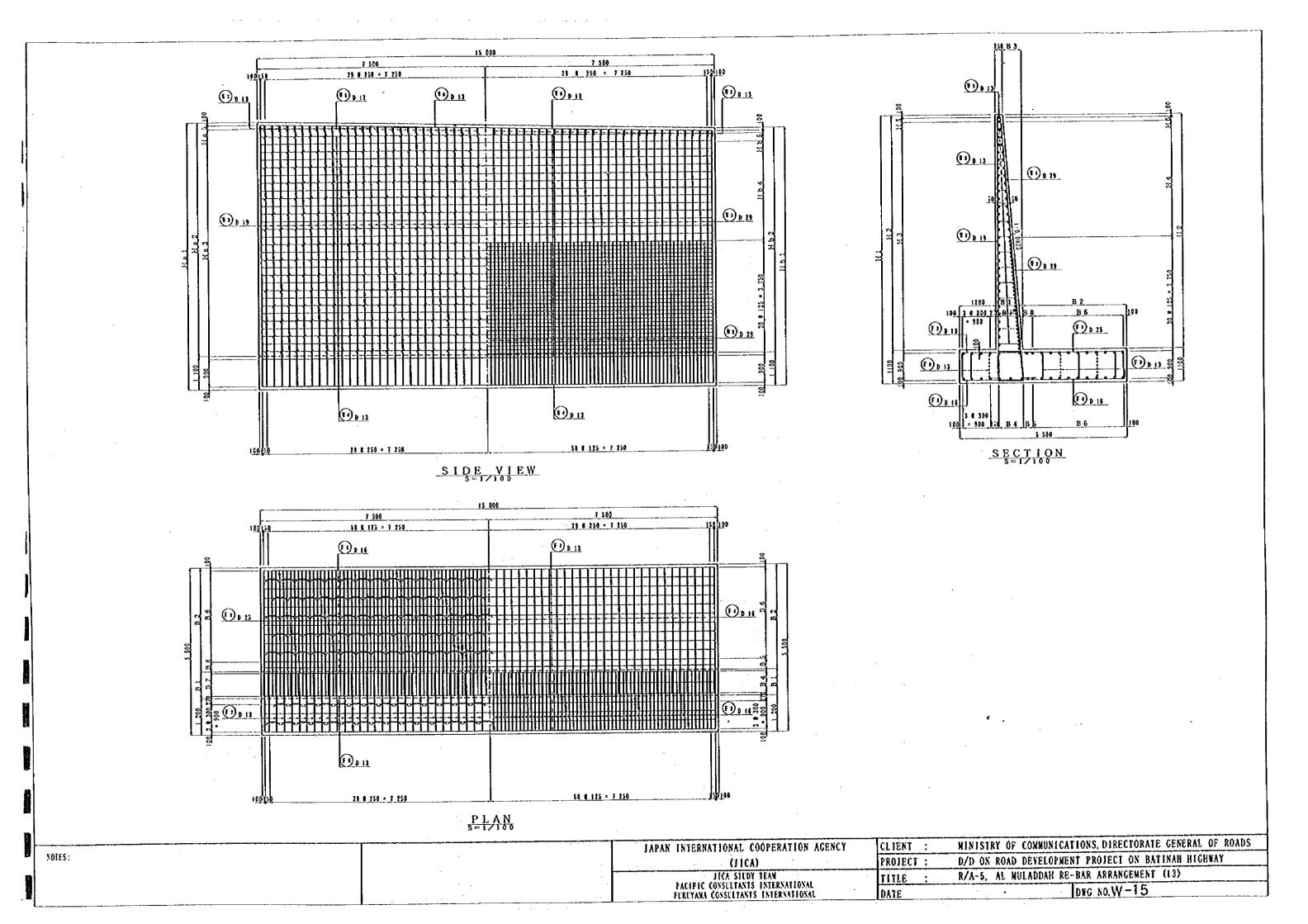
Stil Shape in Front of Fall (Thickness t=30 mm)



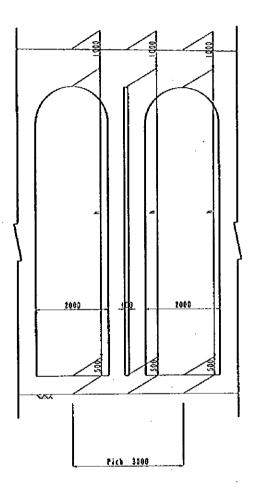
					<del></del>
REEN No.	<b>♦ (ca)</b>	LENGIK (sa)		b .	. 1
37					
1 1	D 25	1 320	1 096~6 783	375	
<del></del>	1	4 690	4 313	375	
-;	0 16	7 160	7 074~6 761	240	
	-	15 190	14 800	390	
- 4	1 13		6 587~13 173	399	
<u> </u>		10 080			
		15 200	14 103	335	
	<u>'</u>	500	110	155	
		610	625~193	111	
<u> </u>	D 25	4 770	3 969	800	
7	D 13	1 780	1 551	195	<del></del>
3	D 16	1 250	L 459	600	
- 4	] <u> </u>	4 670	3 830	148	
5	•	15 280	14 890	450	
6	D 13	15 190	14 800	390	
7	•	15 190	14 800	390	
1	,	2 160	\$29	279	111
- ;	<del></del>	2 180	834	268	111
	ــــــــــــــــــــــــــــــــــــــ		J		· · · · · · · · · · · · · · · · · · ·
11	h 90	7 629	7 408 - 7 BEE	175	
1 1	D 25	f	7 405~7 058		
_ 2		4 690	4 313	375	ļ <u></u>
;	D 16	7 174	1 386~1 074	240	
. 4	D 13	15 190	14 800	390	
5		8 080	\$ 977		
		15 200	14 803	390	
7	•	500	)11	135	
ı	,	660	645~217	111	
F 1	D 25	- 4 750	3 945	869	
7	D 13	1 800	1 605	195	
3	D 16	1 250	1 450	600	
4	•	4 070	3 830	240	T
5		15 290	14 200	480	
	D 13	15 190	14 800	390	
7	1	15 190	14 80G	390	<del> </del>
<del>`</del>	+	2 165	828	279	- 111
	-	2 180	834	281	1 111
	1	1 2 100		1	
19	3 4 40	7 114	7 417- 7 ann	375	T
<u> </u>	D 25	7 324	7 677~7 409		<del> </del>
2	1.	4 630	4 313	375	<del>                                     </del>
		1 760	7 653~7 386	248	ļ <u>-</u>
		15 195	14 800	390	<del> </del>
Ş	<b></b>	9 920	3 516	<del></del>	<del> </del> -
<u> </u>	+	15 200	14 802	390	<del> </del>
7	1.	500	5 i Ø	195	<del> </del>
	<u>                                     </u>	. 660	670~159	111	<u> </u>
F 1	D 25	6 730	3 924	800	ļ <del></del>
1	D 13	1 830	1 626	195	
3	0 16	1 250	1 450	800	
4	•	4 675	3 830	240	<u> </u>
5	1	15 280	1 € 80G	450	1 —
		15 190	14 800	390	I
<u>-</u>		15 190	14 800	290	T
i		2 150	\$25	273	111
	-}	2 180	934	285	111
	J	1	1	· · · · · · · · · · · · · · · · · · ·	.1
		<del></del>			

REIN NO.	ф (sa)	(en) (ex)		ъ	(
<u> </u>	1				
	n 95	7 290	7 099-6 786	375	
	D 25	7 320 4 650	4 313	375	
- 2				210	
3	D 16	7 170	7 077~6 765		
	D 11	IS 190	14 800	390	<u>-</u> -
	*	10 190	6 655~13 317	390	- <u></u>
_ 6	•	15 200	14 803	390	ļ <del></del>
1	•	500	110	195	
8	,	640	\$25~1 <b>93</b>	H1	
F 1	D 25	4 779	1 969	800	
1	D 13	1 780	1 581	195	
3	D 16	2 750	1 450	800	
4		4 070	3 830	240	
5		15 280	14 800	160	
-	D 13	15 190	14 800	390	
7	V 13	15 190	14 800	390	
			878	279	111
		1 160	ļ		111
3	•	1 160	834	288	L
	-				<del></del>
11			1 : - · · · · · · · · · · · · · · · · · ·		·
Ŧ	D 25	1 640	1 412~7 099	375	
2	<u> </u>	4 650	4 313	175	
•	0 16	7 480	7 389~1 077	140	
4	B 13	15 190	14 809	330	
5	<b>-</b> -	\$ 150	\$ 143		
6		15 200	14 803	390	
7		580	110	195	<del></del>
<u>-</u>		650	650~217	111	
	D 25	4 758	3 944	800	
F 1			1 606	195	
<u> </u>	3 13	1 810	L	800	
<del></del>	B 16	2 250	1 450		<del> </del> _
4	-	4 870	3 830	240	<del> </del>
5		15 280	14 850	480	<del> </del> _
- 6	D 13	15 190	14 800	390	
1		15 190	14 800	390	
1		1 150	828	279	111
9	•	2 (80	834	288	111
15				·	
F 1	D 25	7 930	7 680~7 411	375	
2	-	4 690	4 313	375	
	D 16	7 770	7 656~7 389	240	
<u> </u>	D 13	15 150	(4 800	390	
	<del>  ` ;</del>	10 003	10 000		
	Η÷		14 802	390	
- 1		15 200		195	<del> </del>
		500	110	<del>{</del>	<del> </del>
!		660	676~199	111	<del> </del>
F 1	D 25	4 730	3 923	800	<del> </del> -
2	D 17	1 830	1 627	195	<del> </del>
	D 16	1 250	1 459	800	
- (		4 070	3 830	240	
5	, , , , , , , , , , , , , , , , , , ,	15 280	14 800	480	<u> </u>
	D 13	15 190	14 800	390	·
<u> </u>	1	15 190	14 890	290	
<u>-</u>	<del> </del>	2 160	824	179	111
	+ -	2 180	131	258	111
		, # 100		1	
	<u> </u>	-L	1,		

1	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JECA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAK HIGHWAY
Ì	IICA STEDY TEAN PACIFIC CONSULTANTS INTERNATIONAL	TITLE :	R/A-S, AL MULADDAH RE-BAR ARRANGEMENT (12)
١	PIKLYANA CONSULTANTS INTERNATIONAL	DATE	DNG NO. W -14

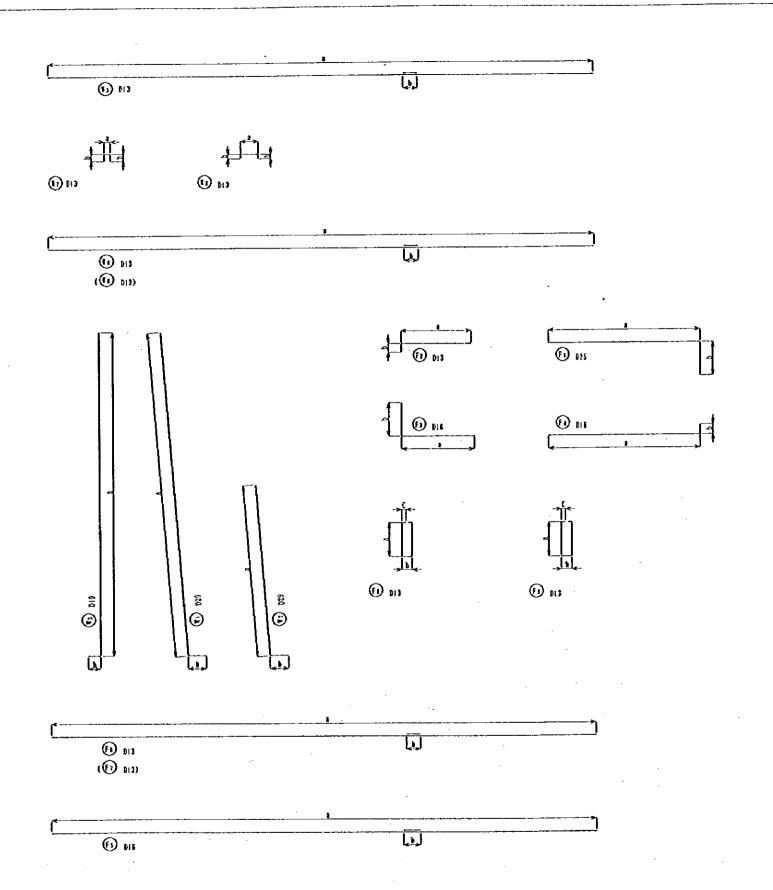


		<b>(</b> -	10			(-	11)	
]		a – a	Ĩ-T	b b		a – a		ь – b
	Hal	7 9 5 3	ньі	8 2 2 0	Hal	8 2 2 0	ньі	8 4 7 8
	Ha2	6 8 5 3	1i b 2	7 1 2 0	II a 2	7 120	Hb2	7 3 7 8
A	НаЗ	270250 = 6750	11 b 3	280250	Ha3	289250	H b 3	298250 = 7 250
11	lia 4	120250	Н Ь 4	1 3 0 2 5 0 = 3 2 5 0	Ha4	130250 = 3 250	Hb4	140250 = 3500
	Ha5	103	нь 5	1 2 0	H a 5	120	нь\$	1 2 8
	Ba1	814	8 b 1	836	Bal	8 3 6	Въі	8 5 7
] }	Ba2	3 486	B b 2	3 4 6 4	Ba2	3 4 6 4	В в 2	3 4 4 3
א	ВаЗ	564	въз	586	Ba3	586	863	607
E	B a 4	2 9 3 7 8 = 7 5 6	B b 4	20389 = 778	Ba4	20389 = 778_	В Ъ 4	20399.5 = 799
	Ba5	29187 = 374	B b 5	20176 = 352	Ba5	20176 = 352	въ 5	2@165.5 = 331
:	Ba6	100300	B b 6	100300	Ваб	100300	В в б	100300
	Bai	682	Въ7	7 0 4	B a 7	704	B b 7	7 2 5
1	Ba8	20224	В ъ 8	20213 = 426	B a 8	2 0 2 1 3 = 4 2 6	вьѕ	20202.5 = 405
		(T-	10			€-	11)	
		a – a		b - b		a – a	<u> </u>	b b
	Hal	7 9 5 6	Hb 1	8 2 2 3	Hai	8 2 2 3	1151	8 4 8 1
ļ	Ha2	6 8 5 6	Hb2	7 1 2 3	Ha 2	7 1 2 3	Н Ъ 2	5I
В	Н в З	27@250 = 6750	нь 3	28@250 = 1 000	ila 3	280250 = 7000	нь з	290250 = 7250
11	На4	120250	Н Б 4	130250	Ha4	130250 = 3250	НЪ4	140250 = 3 500
L	H & 5	106	нь 5	123	На5	123	1165	131
1	Bal	814	ВЪТ	836	Bal	836	B b 1	8 5 7
1	В а 2	3 486	ВЬ2	3 4 6 4	Ba2	3 4 6 4	В b 2	3 4 4 3
N	8 a 3	564	Въ3	5 8 6	ВаЗ	586	В Ъ 3	<u> </u>
E	Ba4	20378 = 756	B b 4	20389 = 778	Ba4	20389 = 778	B b 4	20399. 5 = 799
	Bas	20187 = 374	В Б 5	20176 = 352	Ba5	2 0 1 7 6 = 3 5 2	В Ь 5	= 3 3
	Ва 6	100300	В 6	100300	B a 6	100300	B b 6	108300
1	B a 7	682	ВЪ 7	7 0 4	B a 7	704	B b 7	
	B a 8	2 <b>9</b> 2 2 4 = 4 4 8	B b 8	20213 = 426	B a 8	20213 = 426	В в 8	20202.5 = 405



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

7	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
Ì	JICA STUDY TEAN	TITLE :	R/A-5, AL MULADDAH RE-BAR ARRANCEMENT (14)
	PACIFIC CONSULTANTS INTERNATIONAL FUNCTIONAL CONSULTANTS INTERNATIONAL	DATE	DEC NO.W -16



RE13		183618			
NQ.	φ (εn)	(gg)	1	b	(
1 10					
T i	0 29	L 350	1 047~7 779	435	
5	•	5 110	4 \$65	435	
3	B 19	8 150	8 020~7 753	285	
4	D 13	15 150	14 800	390	
S	,	\$ 750	E 742		
6	•	15 Z00	14 882	390	
7	,	500	110	135	
1	•	630	720~186	111	
F 1	D 25	5 080	4 176	900	
1	D 13	2 070	1 174	195	
3	D 36	1 550	1 650	900	—
4	•	4 170	4 130	240	
5		IS 280	14 800	480	
	D 13	15 190	14 800	390	
1	,	15 190	14 800	390	
8	,	2 360	928	279	411
3	<b>-</b> ,-	2 380	934	288	111
	<u> </u>				
1 11					
1 1	D 29	8 620	8 305~8 047	435	
1	,	5 110	4 666	435	
1	D 19	1 (10	8 276~8 029	285	
<del>                                     </del>	D 13	15 190	14 800	390	
5	,	7 450	7 442		
<del>-</del> -		15 200	14 892	390	
<del></del>		500	110	195	
8	<b>-</b>	700	741~297	111	
Fi	D 25	\$ D60	4 155	900	
1	D 13	2 090	1 895	155	
1	D 16	2 550	1 650	900	
	,	4 370	4 130	240	
	·	15 280	14 600	480	
1	D 13	15 199	14 800	390	
7	•	15 19 <b>0</b>	14 809	350	<u> </u>
<u> </u>	<del>                                     </del>	- 2 350	928	279	111
<del>-</del>	,	7 380	934	288	. 111
Ť		· ,		A_ · · · -	
<del>                                     </del>					
<del> </del>		···	<del></del>		
		<del></del>			
<b></b>					
			<del></del>		

RE IN	φ (en)	LENGIB (se)	,	•	ť
7 10		(82)	L		
TI	D 23	2 360	1 050~7 782	435	
7	-;-	\$ 110	4 565	435	
	D 13	B 180	8 023~7 756	285	
-	D 13	15 190	14 800	390	
<del>`</del>	,	6 910	6 510		
<del>-</del> i		15 200	[4 892	350	
<del></del>		500	110	195	
		E 50	720~186	111	
F 1	D 25	5 020	4 136	300	
	D 13	2 070	1 374	195	
- 3	D 16	2 550	1 650	300	
	,	4 379	4 130	140	
	,	15 280	14 800	180	
- 5		15 190	14 800	390	
	D 13		14 860	190	
7	<del></del>	15 190	928	173	111
		1 360	324	288	111
9	•	2 380	531	F 400	I
1 11		·	A 200 - 5 050	135	
1 1	D 19	1 629	8 309~8 050	435	
2	*	\$ 110	4 666	285	
3	0 19	8 440	1 261~3 423	390	
4	D 13	15 130	14 800	399	
S		7 620	7 (16	360	
		15 200	14 802	390	
7		500	110	195	
8	•	700	741~207	111	
FI	D 25	5 060	4 135	900	
1	D 13	2 090	1 195	195	l
3	0 16	2 550	1 650	900	<del> </del>
. 1	•	4 370	4 130	240	
ş	*	15 285	14 600	480	ļ
i	D 13	15 130	14 800	350	
7		15 190	14,800	350	
ı		2 360	578	273	311
	<u></u>	2 330	534	288	111
ļ					
L	·				

IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

PROJECT: NINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

TITLE: R/A-5, AL MULADDAH RE-BAR ARRANCEMENT (15)

PACIFIC CONSULTANTS INTERNATIONAL

PURLYANA CONSULTANTS INTERNATIONAL

DATE

DATE

DATE

A-LINE REIS O (mm) LENGTH NOWING BLUS U SEIGHT TEIGHT BEWARES 4 380 2.235 2 590 \* 135. 8 1.261 240.1 0\_994 2 0 13 4 290 543. 1 15 199 15.099 26. 3 1.514 6 610 IS 200 15. 199 19. 2 30. 3 0.497 500 102. 9 500 0.487 7. 368 3 274 2.235 F 1 D 13 61. 3 0.994 2 D 13 1 110 2. 035 243.3 115 1.552 1 350 2.513 177.6 2 930 9. 994 4 0 13 LÜ 15. 099 151.0 15 190 15. 099 45. 3 15 190 13 15.039 195.3 15 190 33. 4 1 160 23 1.153 134.9 **657. 2** 4 820 2. 235 5.789 335. 8 1 590 58 2 4 730 0.994 4. 70 ž 186. \$ 3 D 13 614. Q 15.099 40 15 199 13. 1 15. 109 15 200 30.3 0.457 SLO 869.7 3 240 2.235 7. 241 2 D 13 1 130 0.554 68.5 243. 3 2.095 1 350 1.552 2 930 0.994 135.9 15.099 15 190 45. 3 15 190 15. 099 13 15.035 196.3 15 330 33.4 U -1.153 23 1 160 1 170 116 134.5 3980. 1 D 15 3657.3 498. 6 9 16 0 13 3675.3 TOTAL TEIGHT 7831.2

Tender	<u>B ~ I</u>	B-LINE												
T   T   D   15   4   150   2   235   61   5   112   591.5   1   2   2   590   7   515   5   160   235.8   1   1   1   1   1   1   1   1   1		φ (z I)			STOR	E TEIGHT	TEIGHT	BEXARES						
1				<u> </u>										
1		D 19	4 199	2. 235	61	9, 112	598. \$	ĺ						
1	}			,	51	5, 785	₹35. €	i						
4	<b>⊢</b>	D 13		\$. 33 t	61	4, 264	260. 1	1						
5	1	_			36	15, 093	\$13.6							
6	<b>—</b> —	-		,	ī	6. 640	26. 6							
7	1				1	15. 149	30. 2							
B	1			,	61	0.497	30.3							
F I D 19 3 270 2.235 119 7.301 219.7 7  2 D 13	_				207	0.497	192. 9							
2   D   13							215.7							
2 0 16  2 358  1.552  113  2.635  249.3						1,103	17.3							
4 D 13	·				1-		249.3	L						
S	1			<del></del>	1		177, 6							
\$					·									
T	<b> </b>					1								
The state of the				<del>                                     </del>	— <u> </u>	<del></del>								
Total   Tota	<b>—</b> —	<u> </u>		<b></b>		<del></del>		O						
T   T   T   T   T   T   T   T   T   T				<u> </u>	-		<del></del>	<del></del>						
T   D   19	<b>—</b> ,	L <u>-</u>	1 110	L.:	L									
T   D   15    4   230    2   235    61    10   795    658.5	<b> </b>													
T   D   15    4   230    2   235    61    10   795    658.5														
2  "				T 111	1 6	10.745	652.5	1						
3 D 13 4 730 B 984 61 4 762 286.8 ] 4 " 15 150 " 40 15 699 664.0 5 " 6 776 " 2 6.729 13.5 6 " 15 20D " 2 15 109 3B 2 7 " 50D " 61 D 437 3D 3 "  E " 51D " 235 D 507 119.7 F 1 D 19 3 240 2 235 119 7 241 151.7 2 D 13 1 130 D 994 61 1 123 59.5 3 D 16 1 359 1 552 118 2 055 249.3 2 4 D 13 2 93D 6 994 61 2 913 177.6 5 " 15 130 " 9 15 095 135.9 6 " 15 150 " 9 15 095 135.9 7 " 15 190 " 12 15 099 15. 2  8 " 15 190 " 12 15 099 15. 3  9 " 1 170 " 13 150 9	<b>—</b> —			<del></del>		<del></del>								
4  " 15 150  " 40 15.099 664.0   5  " 6 770  " 2 6.729 13.5   6  " 15 200  " 2 15.109 30.2   7  " 500  " 61 0.497 30.3		⊢–		<del> </del>			<del></del>	<del></del>						
\$ - 6 770	1	D 13					<del></del>							
\$	1-	<b>-</b>			<del></del>			<u> </u>						
T				<b>_</b>										
## S1D			<del></del>		<del></del>									
F 1 D 19 3 240 2.235 149 7.241 151.7 7  2 D 13 1 130 D.594 61 1.123 59.5 —  3 D 16 1 259 1.552 119 2.055 249.3 2  4 D 13 2 930 9.594 61 2.942 177.6  5 " 15 130 " 9 15.095 125.9  6 " 15 150 " 3 15.095 135.9  7 " 15 150 " 3 15.093 156.3  8 " 1 160 " 23 1.152 33.6 C  9 " 1 174 " 116 3.163 134.9 C  3 391.7	<u> </u>	<u> </u>		<del></del>										
2 D 13 1 130 D 994 61 1.123 59.5 —  3 D 16 1 359 1.552 118 2.955 248.3 2  4 D 13 2 939 6.994 61 2.913 177.6  5 " 15 130 " 9 15.095 125.9  6 " 15 130 " 3 15.095 45.3  7 " 15 190 " 12 15.099 196.3  8 " 1 160 " 28 1.152 32.4 C1  9 " 1 178 " 116 5.163 114.9 C)  391.7  D 19 3660.6  D 16 438.6	5	ļ	f	<u> </u>			·	<b>↓</b>						
3 D 16 1 359 1.552 118 2.055 249.3 2  4 D 13	_				+			<del> </del>						
4 D 13 Z 919 0.994 51 Z.912 177.6 — 3 5 r 15 150 r 9 15.095 135.9 — 6 r 15 150 r 3 15.093 155.9 — 7 7 r 15 190 r 12 15.093 196.3 — 7 8 r 166 r 23 1.152 32.6 C 9 r 1 178 r 116 5.163 134.9 C) 391.7  D 19 3660.6 D 16 498.6	-				<del></del>	<del></del>	<del>!</del> -							
5					<del></del> -		<del> </del>	<del>`= ,</del>						
6	<b></b>			ļ		+		- <u></u>						
7	1			<del> </del>				1						
\$ " \$ 155 " 28 1.152 33.6 C 9 " 1 176 " 116 5.163 114.9 C 3911.7  D 19 3669.6  D 16 498.6  D 19 3675.9				<del>                                     </del>	+		<del></del> -							
9 1 1178 1 116 5.163 114.9 O 3911.7  D 19 3669.6  D 16 498.6  D 19 3675.9					4			<u> </u>						
D 19 3669.6 D 16 438.6 D 13 3675.9		<u> </u>		<del></del>	+	4		·						
D 19 3660.6 D 16 498.6 D 13 3675.9	ļ <del>,</del>	L <u>.</u>	1 111	L	<u>j 116</u>	1 3.113	<del></del>	J <del>U</del>						
D 15 438.6 D 13 3675.9	<u> </u>				<del></del>		4311. (							
D 15 438.6 D 13 3675.9	1						3/18 =							
D 13 3675.9	ļ													
	<u> </u>			<del></del>										
TOTAL BEIGHT 7834.5	ļ						36 ( 3. 7							
TOTAL BETCH! 1934. 5	ļ			<del></del>		N441 ##1CP#	7,111							
	<b> </b>		·	<del>-</del>		ATT AFTER!	1934. \$	<del></del>						
	<u> </u>							·						
	ļ													
	<u> </u>	_												
	<b>L</b>													

A-LINE BEIN (au) LESCHE SONISCE SUNB ETEIGHT BETGHT BEWARES B 1 0 22 3 490 9.400 545. T 3 D16 4 D13 5 # \$18.3 5 350 1. \$52 1.365 645.3 43 15.039 15 190 4. 534 33. \$ -----E 450 15. 103 30. Z 15 200 500 550 30. 3 0.547 145.5 F 1 D 19 3 670 7.235 1.202 976. 0 85. \$ r= 1.402 1 410 0.994 1 750 3 D 16 1.552 323.1 L. 3. 211 195. 9 3 210 0.594 4 D 13 15 190 15.033 68.4 15 159 276.5 15 190 15.033 Ü 1 560 1, \$51 45. 8 Ü 110.1 5 899 3. Q42 61 3 098 - 58 17. 517 1 051. 5 545. 2 8. 586 \$48. L \$ 290 1.552 15 190 0.994 9, 294 36. 8 9 260 15 200 30. 2 9. 437 30.3 150. \$ 570 4.567 3 64b 2. 235 1, 135 368. 1 F 1 0 19 1.421 86. 7 1 436 D. 394 1 750 1.552 323. 2 3. 111 195. 3 3 230 0.334 15 190 151. 0 15, 093 60. 4 15 190 224. 5 1 540 29 45. 0 1.555 181.1 1.561 5181.3 D 22 3202.1 D 19 1344.1 D 16 1704. 8 D 13 3738.7 TOTAL SEIGHT 10589. 7

<u>B</u> - 1	<u> </u>	<u> </u>										
REIX NO.	Ø (cs)	81 2 X 3 3 (e <sub>3</sub> )	NONINAL TEIGHT	NUNB	O BEIGHT	TEIGHT	TEMARES					
13	·	744.				' <u>-</u>						
¥ 1	D 22	5 490	3, 042	61	[6, 701	1 411.1						
1		3 099		58	5. 100	545. 2	1					
-	D 16	5 13D	1. 552	<b>6</b> 1	8, 365	514.3	i					
	D 13	15 15D	0.331	41	15. 035	[43, 3						
5	3 (3	8 560	4.771	1	\$, 509	34. 0						
- 1	-	15 200		7	15, 109	30.1						
	-	500		61	9.497	30. 3						
7 8		550	-	266	8.547	145. \$						
		3 610	2. 235	119	8, 202	375.0						
F 1	D 13	<del></del> -		63	7. 492	85. \$	<b>,</b> -					
1												
4	D 13	3 110	4.331	10	15.039	151. B						
	-	15 190		- ;	15.099	60.4						
		15 150 IS 150		15	15.033	226.5						
7	•					45.0	O					
	-	1 580		25	1. \$55		0					
9	3	1 570	<u> </u>	116	1,56)	5208. 2						
						9540- \$						
<b>—</b>		<u>.</u>										
T I	D 22	5 900	3.042	61	17, 548	1 094.8	-t					
3	,	3 090		51	9,400	545.2	i					
3	D 16	5 750	1.552	61	8. 586	548.1	<u> </u>					
		15 190	0.394	47	15.099	705.7						
- 4	D 11	7 030	****	177	6, 981	28. 0						
		15 200	- <del>-</del> -	1 2	15. 103	30. 2						
7	-	500	<del>                                     </del>	61	0.497	30. 3						
	<del>                                     </del>	519		266	0.567	150. B						
8	D 19	3 649	2. 235	113	B. 135	368.1	3					
F 1		1 438	0.991	61	1, 421	86.7						
	D 13	1 750	1.552	119	2, 716	123. 2	<del> </del>					
3	D 15	3 230	0.934	\$1	3. 211	195. 9						
	7 13	15 150	V. 33*	10	15.059	151.0						
5	<del>                                     </del>	15 150	<del>                                     </del>		15.053	50.4						
1	-	15 190	<del></del>	15	15. 993	226.5						
1-1	<del>                                     </del>	1 540	<del>                                     </del>	25	1.551	45, 9	U					
	<del>                                     </del>	1 510	<del>                                     </del>	116	1. 561	110.1	Ü					
3	ι.	1 114	<del></del> _	1	1. 4. 44.	\$375.0						
			<del>-:</del> -									
					D 22	3204.0						
}					D 13	1544.1						
-					D 16	1704. 8						
1-			****		D 13	3130.3						
					OTAL MERCENT	10583 2						
<b>J</b>					<del></del>							
ļ												
<u> </u>		<del></del> -										
Ι.												

IAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

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

PACIFIC CONSULTANTS INTERNATIONAL
FUKUYANA CONSULTANTS INTERNATIONAL
DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHTAY

TITLE: R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (17)

DATE

DATE

DATE

BEIN O (an) LENGTH NOMINAL DLVS U BEIGHT BEIGHT REMARKS 9 1 D 21 6 480 3.641 61 19.762 2 - 3 290 - 58 10.601 3 D 16 6 270 3.551 61 9.885 693.0 4 D 13 15 199 0.894 5 - 3 809 -**49** 15.093 739. 9 9.741 33. 0 -----15 200 # §1 0.497 10. 3 • 500 . 8 - 600 - 295 8.596 F 2 D 22 4 169 3.842 119 12.555 175. 8 1 545.9 2 D 13 1 700 0.594 61 1.690 103.1 6-3 D 16 2 159 7.552 119 3.337 4 4 3 570 x 61 5.541 5 x 15 280 x 11 23.715 197.1 335. 9 260.5 6 D 13 15 190 0.994 75, 5 17 15.099 Ü 254, 7 1.543 58, 5 5 - 1 580 · 116 1.968 228.3 Ü \$80.5 637. 1 100.1 39. 2 39. 3 197. 0 F 1 D 22 4 340 3.042 119 12.594 1 D 13 3 D 16 1 730 4.991 184. 3 1.720 2 150 1.552 3. 337 357. 1 1 . 3 510 . 5, 543 338. Q 15 280 23, 715 160. 9 8 D 13 15 150 0.954 15.099 15. 5 • 15 190 258. T 15. 499 1 960 \$6. 5 1 580 2 2 8. 3 D 22 6637, 2 D 16 3232, 1 D 13 3532. 6 TOTAL PEIGHT 13401.5

<u>B -</u>	<u>B-LINE</u>												
RE I	0 (az	RISKEI	30X1331	31713	T PEIGET	TEICRI	REMARES						
1		1 (1)	TELGHI.	1	L		L						
	3 	6 480	3. 642	11	19.711	1 111.4	ī						
		3 290	7. 111	58	10.008	589. 5							
_	D 16	<del>-</del>	1. \$\$2	61	9. 816	613.0	<u> </u>						
	D 13	<del></del>	0.394	19	15. 059	733. 3							
		4 540	0.331	1,7	4.513	9.1	<u> </u>						
1-	•	15 200	,	2	15.189	30, 1							
	-	500		61	0.497	39. 3	•						
_	-	518	<del></del>	195	4. 606	178. 1							
J	D 21	+	3. 042	113	12.655	1 585. 3							
1-	0 11	1 709	0.994	113 51	1.693	193. 1							
1	D 16		1.551	119	3, 337	197. 1	1						
<b></b> -		+	1. 276			331. 1							
		3 574		61	5. \$41								
		15 280	0, 99 8	li E	23, 715 35, 039	250. 9 15. 5							
-			0.391	5		· <del>-</del>							
_		15 198	<b>!</b>	17	15,039	25E. 7	Ü						
		1 350		25	1.918	\$6. \$	0						
<u>                                     </u>		1 550		116	1.968	128. 3	<u> </u>						
						6596. 1							
<u> </u>					<del></del>	<del></del>							
1.1			4 4 4 4	61	40 502	1 254 2							
1.3	-}		3.042 j	58	29.897 19.668	1 269. 2 580. 5							
	- <u>}</u>	3 290											
		+	1.552	61 53	19.445	637, 1 800, 2							
-		15 330 5 040	0.994	,	15, 933 8, 936	11.0							
-	+	15 200		1	15, 105	30, 2							
-		500		11	0.457	10.3							
	+	510		\$25	8, 606	(37. 0							
	+	<del> </del>											
F	<del>-</del>		3.642	119	12.554	1 498, 7	<u>'</u>						
1			0.354 1.552	<u> </u>	1. 710 3. 337	104. 5 397. 1	Ī						
1 3		2 150	1.332	(1) (L		333.0							
<u> </u>	<del> </del> -	3 570 15 240		<u></u>	. 5.541 23.715	160.5							
1-3		+		5	15.099	75.5							
	~	15 150	D. 994	11	15. 093	256.7							
1	<del></del>	15 190		29	1.945	\$6.5							
	1	1 560		116	1, 961	228.7							
<del>-</del>	<u>'</u>	1 980	<u> </u>		7. 781	67 i 5. 1							
$\vdash$						V. 17. 1							
$\vdash$													
$\vdash$					0 11	6617. 1	-						
<b> </b>	<del></del>				D 16	3232. 1							
					- D 13	3505. 5							
1-													
				101	IL TEIGHT	13375. 1							
$\vdash$		· · · · · · · · · · · · · · · · · · ·											
<b> </b>													
1				-									
<u> </u>													

JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(IICA)	PROJECT:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
FACIFIC CONSULTANTS INTERNATIONAL	TITLE :	R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (18)
	DATE	DWC VOW-20

A-LINE															
REIS NO.	\$ (EE)	119K33	REIGHT	NENB	E TEIGRE	TEIGHT	RENIRE:								
11															
1 1	0 15	7 310	1.573	<u> </u>	23. 432	1 174.0	_ 1								
1		4 695	F	58	18, 133	1 830.7	1								
- 3	0 16	7 168 15 130	1.552 0.594	60 60	11, 112 15, 039	677, 8 305, 9									
<u> </u>	9 (3	19 989	9. 514	- ''	19. 628	18.1									
	-	15 200		1 3	15. 149	3B. 2									
1	•	500		- 61	9, 457	39. 3	•								
1	•	640		358	9, 516	125.1									
FI	9 15	4 310	1, 573	119	21. \$51	2 255, 2									
	111	1 748	0.594	- 11	1.769	107, 9	<u></u>								
3	D 15	2 250	1.552	115	3, 432	415.5	<u> </u>								
4		15 288	,	12	6.317 23,715	385, 3 284, \$									
5	D 13	15 190	0.551	<del>- 16</del>	15. 033	75. 5									
1		15 190		18	IS. #33	211. 8									
8		2 160	•	29	1.147	62. 3	0								
3	,	7 140	•	145	1, 167	314. 2	Ü								
						1936. 4									
L <u>.</u>															
T 2 W 1 0 25 7 530 3 273   51 30 314 1 245 2 1 1															
2	W 1 D 25 7 638 3.573 61 30.314 3 845.2 \														
3	DIE	7 470	1.551	61	11,593	107. 2	j								
4	D 13	15 190	0. 594	Şõ	15. 693	905. 9									
5		<b>9 039</b>		2	1. 531	16. 1									
-		15 200	•	2	15, 103	39. 2									
		508 668	•	354	0, 497 0, 656	30. 3 232. 2	•								
FI	D 15	4 756	3. 373	11)	18, 372	2 245.8	-								
1 2	D 13	1 808	0. 994	61	1, 789	195. 1	٠.								
1	D 16	2 250	1.552	119	3, 492	415. 5	L								
4	,	4 076		13	6. 317	385. 3									
		15 210		12	23, 715	284. 6									
-	D 13	15 190	0.994	5	15.099	75. 5									
	-	1\$ 19¢		18	15. 099 2. (47	371, 8 62, 3	<u> </u>								
		2 180		115	2.167	314. 2	<u> </u>								
						5915. 9									
13	N 85	7 410	9 979		1 4										
7 1	D 15	7 926	3, 973	58 58	35, 456 18, 633	1 915.4 1 980.7	1								
	D 16	7 760	1.552	63	12.044	114.7	1								
4	D 13	15 190	0. 354	66	15.699	996, 5									
5	•	5 120	•	1	9. 460	19. 1									
	•	15 200	•	1	15.109	10. 1									
1	•	500	•	11	0.497	36. 3									
8 1	0 25	669 4 116	1.973	113	0.656 18.792	251. 9 1 116. 1	-7								
+	D 13	1 136	0.994	113	1. \$19	111.0	· ·								
1	3 16	2 159	1.551	113	3, 451	415. \$									
1		4 979		B	6.317	195, 1									
S	•	15 210		11	23, 715	284, 6									
	D 13	15 130	6. 994	\$	15.699	15. 5									
- 7		15 130	<del>:</del>	18	15.039	871.4	<u></u>								
	-	2 150 2 110	<del>,</del>	145	1.167	52. 1 314. 1	Ü								
<b>-</b> -				L.:://		9219. B									
L															
					D 25	15511. 3									
ļ		-			0 15	\$175. 1									
ļ			<del></del>		D 13	6174.3									
<del> </del>				1.0	TAL TEIGHT	27173.3									
l					***************************************	*18*8. \$									
<b></b>															

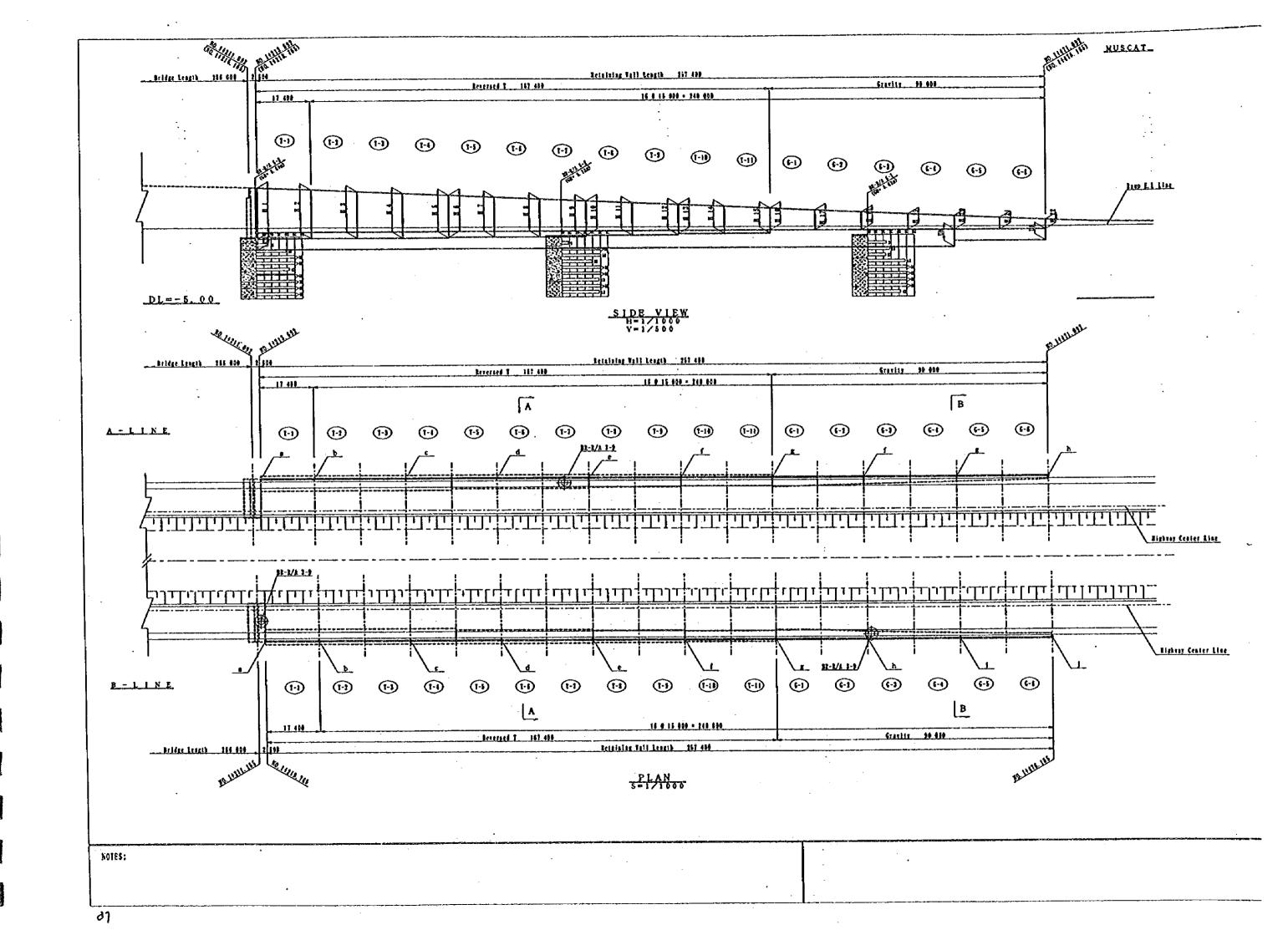
REIN I		LENGIH	FORENAL		T	· · · · · · · · · · · · · · · · · · ·	r
30.	φ (ss)	(61)	DETERT	25.13	E TEIGRE	181681	REMARKS
11	D 25	7 310	3, 973	\$1	29, 032	1 774.0	Г
- ;	<del></del>	4 650	* ***	51	13, 631	1 019. T	
3	0 16	7 170	1.551	- <del></del>	11.123	678. 8	ì
- 4	D 11	15 190	9. 954	60	15.099	985. 9	
S	•	10 150	,		19.123	40. \$	
		15 290	•	2	15, 189	30. 1	
_1		500	•	81	9, 497	30. \$	
		140	*	354	9, (16	225. 1	
2	0 15 8 13	4 778 1 788	3.973 0.594	119	18, 551 1, 769	2 255. 1 107. 9	
-;	0 15	2 250	1.551	113	3. (32	415, 5	<u> </u>
-	•	4 678		11	6.117	\$85. 3	
- <b>5</b>		15 280	,	12	23, 715	284. 6	
- 6	9 13	15 199	0.594	\$	15.09\$	75. 5	
7	•	15 190		18	15.099	171. 8	
- 8	•	2 160	,	23	2.147	62. 3	Ü
,	•	2 180		145	2. 167	314.2	<u> </u>
			<del></del> .	<del></del>		1937. 1	
1 8							
• 1	D 15	7 640	3 973	61	10, 354	1 851. 4	
2	-,-	4 690		58	18, 633	1 050.7	l
3	D 16	7 489	1.551	61	11. 695	708. 1	J
- 4	D 13	15 190	4.554	\$4	15. 035	568. 3	
5		8 150		2	8.101	(6. 2	
		15 140			15, 109	30. 2	
- 7	-	500	,	61 354	9. 497 9. 656	30. 3 232. 2	
- 1	D 25	4 759	3, 973	115	18, 171	2 245. 8	
- ;	D 13	1 110	0.534	61	1. 753	109.7	_
3	D 16	2 259	1.552	115	3.491	415.5	<u> </u>
4	•	4 470	,	£1	§. 117	315.3	1
5	•	15 280	,	12	23, 715	214.6	-
_[]	D 13	15 190	0.994	- 5	15. 059	75.5	
		IS 190		18	15.099	271.8	
3		2 160	<u>'</u>	29 145	2. [47 - 2. 167	61. 3 314. 2	0
		1 100 1		114	2.111	9080.3	
			· · · · · · · · · · · · · · · · · · ·				
13							
1 1	D 25	7 930	3. 973	6 L	31.586	1 521.5	<u> </u>
		4 690	•	58	(8, 633	1 089.7	L
-3	D 16	7 770	1.552	61	12.053	735. 6	
- <u>1</u>	D 13	15 190	0.934	- 65	15.099 5.540	996, 5 19, 9	
-	-	15 200		;	15. 109	30. 2	
-	•	506	<del>,</del>	61	0.497	30. 3	
J	,	660		384	0.656	251.5	-C
F 1	D 15	4 730	3. 971	115	18, 751	2 236. 2	
	D 13	1 830	0.914	<b>f</b> 1	- 1.819	111.0	٦
3	D 15	2 250	1.552	113	3. 492	415.5	<u> </u>
- 1	-	\$ 070	- :	61	1.317	385. 2	
- 5	-	15 280	4 117	-11	23.715	284.6	
- 1	D 13	15 190 15 190	0, 534	- <u>\$</u>	15.099 15.099	271.8	
-;		2 160	-;-	29	17, 027	£1.3	0
-;		2 130	-	115	1.117	314. 2	Ü
						5223. ¢	
					9 15	15526. B	
					8 16	\$318.1	
					9 13	6336.0	
				†a1		<del></del>	

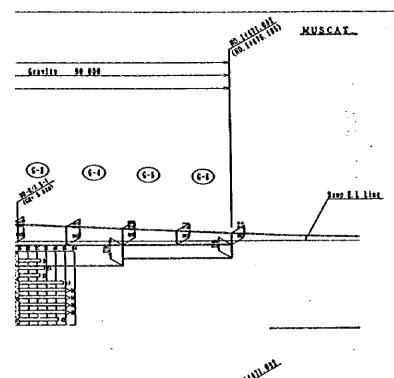
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(11CV)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
IICA STUDY TEAN PACIFIC CONSULANTS INTERNATIONAL	TITLE :	R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (19)
CULTAIN CONCULTANCE INTERNATIONAL	DITE	DEC NO W -21

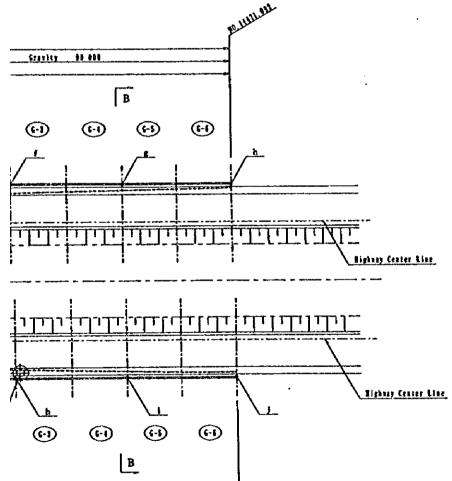
A = I, I N E

<u>A – </u>	A - LINE												
REIN NO.	φ (es)	LENGTH (se)	TELLER	NEVB	A LEICHI	TEIGET	REVARES						
I 10													
	9 19	8 350	5. 959	61	42, 243	1 578. 8	<u> </u>						
2	•	5 410	7	58	25. 851	1 459.4	ι						
3	9 19	8 (80	2. 235	61	i8, 287	1 115.2	j						
4	9 13	15 190	9. 994	19	15.099	1 641.8							
\$	•	6 750		1	6.710	13.4							
1	-	£5 200		1	15.103	30, 2							
	<u> </u>	500	2	- 61	0.437	30, 3	•						
					D, 676		<u>-</u>						
		480		413		279.2							
E 1	0 25	5 989	3. 973	111	20. 133	1 401.8							
1	0 13	2 670	0.994	- 61	2. 058	125.5							
<b>├</b> .,	3 16	2 550	1.552	113	3, 954	471, D	<u> </u>						
_ +	\$ # \$ 370 # \$1 6.782 418.7												
5	\$ 4 15 280 4 13 23.715 308.3												
5	D 13	15 190	0. 954		15. 033	75. \$							
7	,	15 190	•	19	15.093	286. 3							
8	,	2 363	•	29	2. 146	63. 0	O						
,	,	2 380	,	145	2.366	343.1	U						
	•					11080. t							
· · · · ·													
111													
	D 19	8 629	5, 059	61	43, 605	1 668.1	1						
1		5 110	,	58	25. 451	1 499. 4							
3	Dis	8 440	2. 235	61	18, \$63	1 150, 6	1						
1	D 13	15 190	0.994		15.099	1 071.0							
				71									
<u>\$</u>		1 450	•	2	7, (0)	14.3							
<b>8</b>		15 200	•	7	15, [03	30. 2							
7		500		F1	0. 497	30.3							
	,	790		\$13	0. 698	217. 4							
Ft	0 25	5 060	3. 973	119	20. 103	2 311.3							
1	D 13	2 090	0. 994	61	2.077	126. 7	ר						
3	0 16	1 559	1. \$\$ 2	111	3. 958	471. #	<u> </u>						
4		4 370		61	6, 752	411.7							
5	,	15 280	,	13	23, 715	398. 3							
8	0 11	15 190	0. 396	5	15.093	75. \$							
7		15 190	,	13	15.099	286. 5							
3	,	1 369	,	29	2, 146	68.4	Ü						
,		2 380		145	2. 356	341.1	0						
· · · · ·	<b>'</b>		L			11230, 3	· -						
<u> </u>					D 23	1235. 2							
$\vdash$			· .		D 25	4794.1							
1					D 19	1265. J							
					D 16	2386.6	<del></del>						
<b>}</b>					D 13	4628. 6							
				-		1760. 8	<del></del>						
<b> </b>				10	TAL DEIGHT	22310.4							
<b>—</b>			<del></del> -										
<del></del>					<del></del>		•						
•													

<u>B – </u>	$L \Pi$	<u> </u>					
REIX NO.	<b>\$ (11)</b>	(es)	NONINAL TEIGHT	NUNB	E TEIGHT	181611	REMARKS
1 10							
¥ 1	D 23	8 360	\$. 059	<b>§</b> 1	42, 193	2 579. 9	l l
3	,	\$ 110	,	58	15. 851	L 459. 4	. t.
3	D 19	8 110	2. 235	61	18. 282	1 115. 2	J
4	D 13	15 190	0.934	59	15. 095	1 041. 8	
\$	,	6 31 6	,	2	6, 863	13. 7	
í	•	15 100	,	2	15, 103	30. 2	-
3	•	500	,	<b>61</b>	8, 497	30. 3	
1		650		413	9. 676	275. 2	7
ŧ 1	3 25	5 080	3.971	113	20.181	2 491. \$	
2	3 13	2 078	8.994	\$1	2. 053	1 <b>2</b> 5. S	<u></u>
1	9 16	2 550	1.551	113	3, 351	471. 0	L.,
4	•	\$ 370			6,782	413.7	
\$	,	15 280		13	23.715	398. 3	
6	0 13	15 190	0.534		15.099	75. 5	
7	, ,	15 130	V. 23%	19	15.053	215. 9	
8	-;-	2 360	<del>;</del> -	13	2.346	65.0	0
			•	145	2.366	343. 1	Ü
9		1 390		142	2. 311	L	<u>u.</u>
		·			<del></del>	11013.5	
111							
1 1	D 29	1 629	5. 059	61	43, 685	2 660.1	[
1		\$ 114	,	51	25. 851	1 459. 4	
1	D 19	1 (13	2, 135	f]	11.113	1 150.6	i
4	D 13	15 150	0.994	71	15.099	1 072.0	
		7 620		<del>-                                    </del>	7.574	15.1	
-	,	15 200		1	15. 103	29. 2	
<u>-</u> -		500	•	61	0.497	30. 3	•
		799	•	413	0.655	217. 4	
E 1	D 25	5 060	3. 973	113	20. 103	2 192.3	
1	D 13	2 430	0.354	61	2. 977	126.7	
		2 559	1.551	113	3. 558	17).0	<u> </u>
- 1	D 16		1.321		5. 778 5. 182	413.7	<del></del>
- (		4 110		- 63			
5		15 189		11	23, 115	393. 3	
	D 13	15 199	0.934	5	15.093	25. 5	
1		15 190		19	15. 093	216. 9	
		2 369	•.	29	1, 346	61.0	<u> </u>
!	•	2 380		145	2. 355	313.1	
						11230.6	
					P 25	1235. 1	
-					D 25	4794. 1	
	•	·	- :		D 13	1265. 1	
					Ď 1 F	2386. 0	
					D 13	4525. 4	
	<del></del>	· · · · ·	<del></del>	T C I	IAL TEIGHT	22314. 1	<del></del>
			-		·	<del></del>	

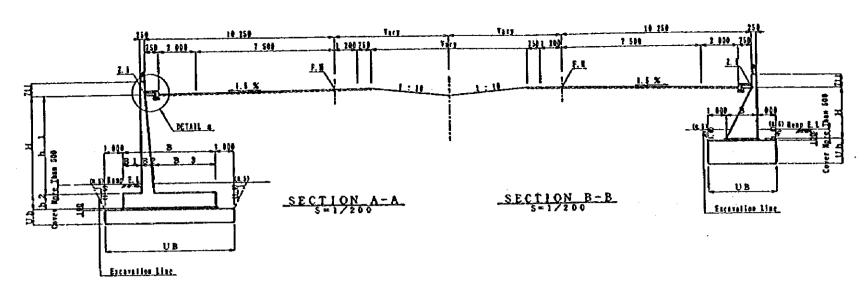




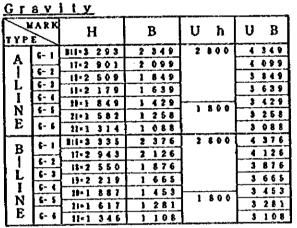


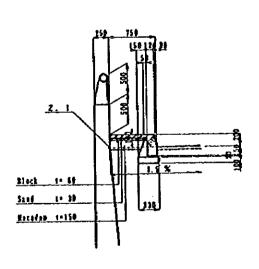
W. HARLIE

Graelty \$0 454



Rе	v e	rsed 1	<u>r</u>														
TYP	IARK E	н	h	1	h	2	В	В	1	В	2	В	3	U	h	U	В
1	3- 1	B 1-8 1 0 9	7	109	1	000	6 0 0 0	1	000		809		191	1	800	. 1	000
1		1-7 8 4 3	6	843							788		212			1	,
I A	1- 1	1-7 5 7 6	6	576							767		233				
1		1.7 3 0 9	- 6	309							746		254				
11	1- 4	5-6 9 9 7	8	997	<u>.</u>					_	721		279			<u> </u>	500
1	<b>3- 5</b>	1-6 8 9 7				800	4 600	1	000		692	<del></del>	808		9 6 0	١ ،	200
L	7- 6	1-6 5 8 5	Б	665							669		831	l			·
1		1-6 2 2 8	5	3 2 8				Ì		<u> </u>	643		8 5 7	₹			
ı	1- 1	9=5 8 7 1	4	971						<del> </del>	617		883	┝╌	100		000
1	1-1	19-5 673	<u> </u>		1	700	4 0 0 0		800	ļ	578		622	<b>∤</b>	100	"	000
N	-	11-5 269	4	569	1			,		<b>├</b> ─	552		618	ł		l	
	1- 1	11-4 8 6 7	4	167	<u>}</u>			<b>_</b>	444	<del> </del> -	525		418	٠.	300		500
E	Ť-18		<u> </u>		ł	500	3 5 0 0	i	6 0 D	-	482	<del></del>	443	┨ *	300	1 1	•••
1	<b></b>	14-4 230		730	Į.			l			433		467	{			
ļ	7-31			293	<u> </u>	<del></del>		<del>-</del>	000	┼	812		188	+	800	- ,	000
1	1- 1		<u> </u>	152	Į 1	000	5 0 0 0	ļ '	000	ļ	791		209	1 '		1 '	
	7- 1	1-7 886		886	4		ŀ				770		230	ł			
В	7- 1	1:7 6 1 9		619	1		1	1			749		2 5 1	ł		i	
Ι.	1- 4	1:1 3 2 3	6	352	1				•	<b>}</b> —	725	4	275	1		1	
11	F		6	040	<u> </u>	900	4 500	┝╌	000	╅──	696		804	1	900	6	500
١.	1- 5		1	728	1	***	1 ****	١ .	000	-	673	<del></del> -	8 2 7	1 ፣		•	
L	1- 6	7-6 6 2 8			┨		L	ŀ		<b> </b>	646	-	854	1		1	
١.	1- 1	8-6 271		371	Į		<b>§</b>	•			620	+	880	1			
1	}	<del>                                     </del>	5	014	<b>-</b>	700	4 0 0 0		800	╁╌╾	581		619	1 2	100	1-6	000
١.,	1- 1		╂┰	612	1		1 7 7 7 7	1		-	555	<b>+</b>	645	1 [		1	
N	1-1	11-5 3 1 2	4	011	4		1	1		-	528	<del> </del>	672	1		•	
1.75	1-	1104 7 7 7	4	210	-	500	3 8 0 0	+-	600	<del>                                     </del>	484		416	_	300	1	500
E	1-16	11:4 273	3	773	1		1			1	460	-	440	-1			
	7-11			3 3 5	┨ `				-		435		465	7		1	
L		10-9 000			٠												





DETAIL a.

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 TEAM	TITLE : R/A-S, AL MULADDAH GENERAL VIEW FOR WALL (2)-1	
PACIFIC CONSULTANTS INTERNATIONAL	DATE DEG NO. W-23	
FLIUVANA CONSULTANTS INTERNATIONAL	Invie for the first to the firs	

Po	int	a	b	c	ď	e	ſ	g	ħ	i	j
A	N	+2627213. 11169	+2627216. 38871	+2627221.30424	+2627226.21976	+ 2 6 2 7 2 3 1. 1 3 5 2 9	+2627236.05082	12627240. 96635	+2627245.88188	+2527250. 79740	+2627255.71293
	ε	+ 558891.53266	+ 558911.26236	+ 558940.85692	+ 558970.45147	+ 559000.04602	+ 559029.64058	+ 559059. 23513	+ 559088.82968	+ 559118.42424	+ 559148.01879
I N	Z	13.570	13.264	. 12.730	12.106	11.392	10.588	9.714	8. 930	8. 270	7. 735
В	N	+2627184. 60177	+2627187.87879	+2627192.79432	+2627197.70984	+ 2 6 2 7 2 0 2 . 6 2 5 3 7	+2627207.54090	+2627212.45642	+2627217.37195	+2627222. 28148	+2627227. 20301
;	E	+ 558896.26501	+ 558915.99471	+ 558945.58927	+ 558975.18382	+ 559004.77837	+ 559034.37293	+ 559063.96748	+ 559093.56203	+ 559123.15659	+ 559152.75114
Ň	2	13.570	13.264	12.730	12.106	11.392	10.588	9.713	8. 928	8. 265	7.724

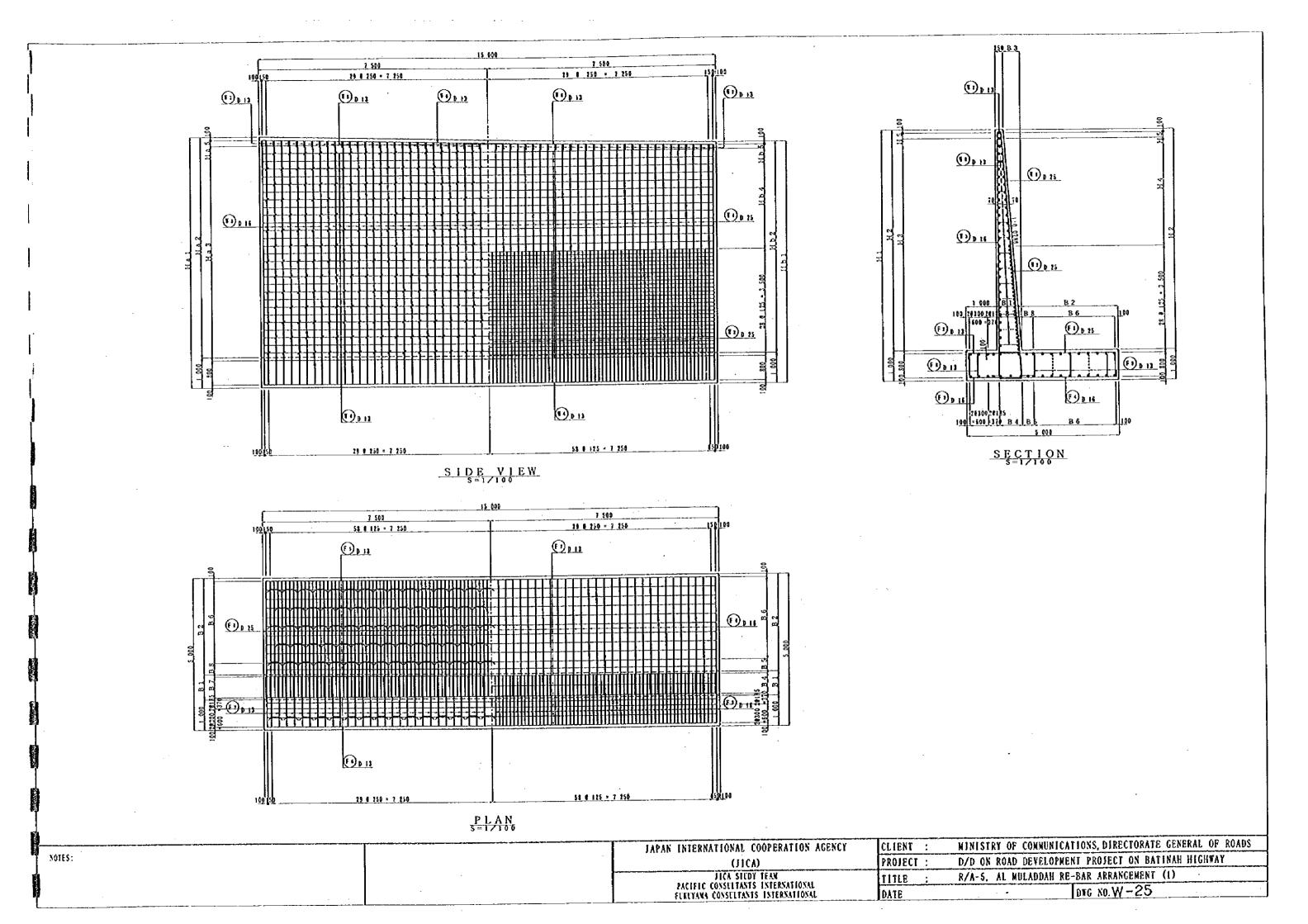
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIE
(HCA)	PRO
JICA STEDY TEAN PACIFIC CONSELTANTS INTERNATIONAL	1111

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

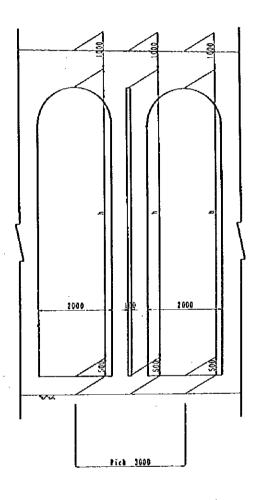
R/A-S. AL MULADDAH GENERAL VIEW FOR WALL (2)-2

DWG NO. W -24

LIENT :
PROJECT :
TITLE :
DATE FUNUYAYA CONSULTANTS INTERNATIONAL



ſ	Τ	(1-1)				Ţ-	2)			Ţ-	3			Ţ	<u> </u>	
	-	a - a	$\overline{}$	b - b		a - a		b - b		a - a		b - b		a - a		b b
	Hai	8 1 0 9	ньэ	7 8 4 3	Hal	7 8 4 3	НЬЗ	7 5 7 6	Hal	7 5 7 6	нь 1	7 3 0 9	Hal	7 3 0 9	ньі	6 9 9 7
	Ha2	7 1 0 9	Н b 2	6 8 4 3	lia 2	6 8 4 3	II b 2	6 5 7 6	Ha2	6 5 7 6	нь2	6 3 0 9	lia 2	6 3 0 9	H b 2	5 9 9 7
Α	Ha3	289250 = 7 000	нь з	270250	Ha3	278250 = 6750	НЬЗ	26@250 = 6 500	НаЗ	26@250 ≈ 6 500	li b 3	250250 = 6 250	Ha3	250250 $= 6250$	ньз	230250
	H 8 4	149250	Н Б 4	130250	Ha 4	136250	нь4	120250	Ha4	120250	H b 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ha4	110250 = 2750	H b 4	90250 = 2250
1.'	HaS		Нь5	9 3	Ha Ś	9 3	Нbs	7 6	Ha5	7 6	нь5	5 9	Ha5	5 9	Н Ъ 5	247
L	Bal	809	ВЬ1	788	8 a 1	788	Въі	767	Bal	767	B b 1	746	Bal	7 4 6	Въі	7 2 1
I	B a ?	3 191	В b 2	3 2 1 2	Ва 2	3 2 1 2	B b 2	3 2 3 3	Ba2	3 2 3 3	Въ2	- 3 2 5 4	Ba2	3 2 5 4	B b 2	3 2 7 9
N	Ba3	\$ 5 9	въз	5 3 8	ВаЗ	538	вьз	517	Ba3	517	B b 3	496	Ba3	496	Вьз	471
E	Ba 4	20369.5 = 739	B b 4	20359.5 = 719	Ba4	20359.5 = 719	B b 4	20349 = 698	Ba 4	20349 = 698	B b 4	20338.5 = 677	B a 4	20338.5 = 677	В в 4	2 @ 3 2 6 = 6 5 2
"	B a 5	20195.5 = 391	B b 5	20205.5	Ba 5	2 @ 2 0 5. 5	В в 5	2 0 2 1 6 = 4 3 2	Ba 5	20216 = 432	B b 5	20226.5 = 453	Ba5	20226.5 = 453	В Ь 5	2 @ 2 3 9 = 4 7 8
1	Ba 6	90300	В 6	96300	Ba 6	99300	В Ь 6	90300	Ba6	90300	B b 6	98300 = 2700	Ba 6	98300	8 b 6	90300 = 2700
	Ba7	677	B b 7	656	Ba7	656	B b 7	635	B a 7	635	Въ7	614	Ba7	614	8 b 7	589
	B a 8	2@226.5 = 453	B b 8	20237 = 474	Вав	20237	Въ8	20247.5 = 495	B a 8	20247.5 = 495	въ8	20258 = 516	Ba8	20258 = 516	В в 8	20270.5 $= 541$
	1	Ţ	<u></u>			(T-2)			1-3			(T-4)				
ł		a a		<b>b</b> – <b>b</b>		a – a		b — b		a – a		b - b		a a		b b
	Ha1	8 1 5 2	нъз	7 886	Hal	7 8 8 6	ньі	7 6 1 9	Hal	7 6 1 9	ньэ	7 3 5 2	Ha1	7 3 5 2	11 b 1	7 0 4 0
	Ha 2	7 152	НЬ2	6 8 8 6	На2	6 8 8 6	Hb2	6 6 1 9	Ha2	6 6 1 9	нь2	6 3 5 2	Ha2	6 3 5 2	11 ъ 2	6 0 4 0
В	1{ a 3	280250 = 7000	ньз	270250 $= 6750$	Ha 3	270250 = 6750	нь3	260250 = 6 500	H a 3	260250 = 6500	ньз	25@250 = 6 250	Ha3	250250 = 6250	11 b 3	= 6 000 100250
l i	Ha4	140250 = 3500	H b 4	13@250 = 3 250	На4	130250 = 3 250	H b 4	120250	Ha 4	120250	нь4	$ \begin{array}{r} 110250 \\ = 2750 \end{array} $	II a 4	1 1 0 2 5 0 = 2 7 5 0	Н в 4	= 2 500
L	Ha 5	152	Н b 5	136	Ha 5	136	н ь 5	119	Ha 5	119	H b 5	102	Ha 5	102	НЪ5	4 0
[	8 a 1	8 1 2	8 b 1	791	Bal	791	B b 1	770	Bal	770	B b 1	749	Bal	149	Bbl	7 2 5
'	8 8 2	3 188	8 b 2	3 2 0 9	Ba 2	3 2 0 9	B b 2	3 2 3 0	B a 2	3 2 3 0	B b 2	3 2 5 1	B = 2	3 2 5 1	В Б 2	3 2 7 5
N	ВаЗ	562	в в 3	5 4 1	ВаЗ	5 4 1	вьз	520	Ba3	5 2 0	В Ь З	499	ВаЗ	499	B b 3	475
E	B a 4	20371.5 = 743	B b 4	2 Ø 3 6 1 = 7 2 2	B a 4	2 @ 3 6 1 = 7 2 2	В 6 4	20350.5 = 701	Ba4	20350.5	8 b 4	20340	Ba4	20340 = 680	8 ъ 4	= 655 20237.5
	Ва5	2 @ 1 9 3 . 5 = 3 8 7	В Б 5	2 @ 2 0 4 = 4 0 8	Ba 5	- 4V0	8 b 5	20214.5	Ba 5	20214.5 = 701	В в 5	20225	8 8 5	20225 = 450 90300	B b 5	= 475 90300
1	Ba6	90300	B b 6	90300	B & 6	90300	B b 6	90300	8 a 6	90300	B b 6	90300	Ba6	= 2 700	B b 6	= 2 700
	Baī	680	B b 7	6 5 9	Ba7	F	В В 7	638	Ba7	638	ВЬЛ	617	B a 7	617	B b 7	593
	Ba8	20225 = 450	В b 8	20235.5 = 471	Вав	$ \begin{array}{r} 20235.5 \\ = 471 \end{array} $	В в 8	2 6 2 4 6 = 4 9 2	Ba8	20246 = 492	868	20256.5 = 513	B & 8	= 513	B b 8	= 537



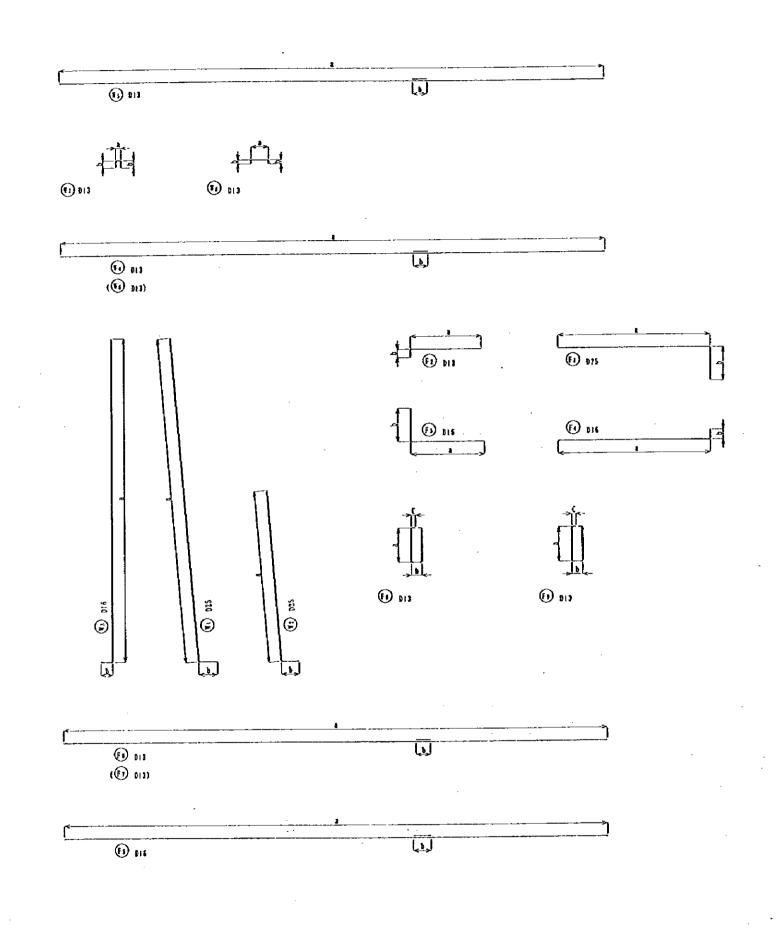
Slit Shape in Front of Wall (Thickness t=30 mm)

RE 13 30.	<b>\$ (11)</b>	(cs)	a l	b	č
11		\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	·		
T 1	D 25	1 180	1 513~7 667	375	
2	•	4 690	4 313	375	
· ;	D 16	¥ 020	7 909~7 643	249	<del></del>
	D 13	i\$ 190	14 800	390	
\$		6 150	6 137		
•		15 200	14 102	390	
1	,	500	110	195	
8	•	680	691~213	111	
FI	D 25	4 710	3 903	- 800	
1	D 13	1 850	I 617	195	
3	Ď 16	1 250	1 450	100	
- 1	•	4 470	1 830	140	
\$	•	15 280	E4 800	459	
•	D 13	15 190	(4 800	190	
7	•	15 190	14 800	390	
		1 (60	828	279	HL
,		8 180	834	288	HE
1 2		-			
Τι	D 25	7 910	1 661~7 399	315	
\$	•	4 690	4 313	37\$	
3	D 16	7 750	7 643~7 176	140	
4	D 13	15 190	14 800	190	
5	•	\$ 230	5 225		
6	•	15 200	14 802	390	<u> </u>
7	[ <u>*</u> _	500	110	195	<u> </u>
1		660	478~158	111	
F I	0 25	4 730	3 924	800	
1	D 11	1 838	1 626	195	
3	D 16	2 250	1 450	\$00	1
- 1	·	4 670	3 830	249	
\$		15 230	t4 800	4 50	
6	D 13	15 190	14 500	390	
1	,	15 190	[4 800	390	
1	,	2 169	878	279	111
3	,	\$ 680	834	288	111
			· <b>_</b>		<del></del>

NELY NO.	o (aa)	LENGTH (10)	2	5	•
13	LI	110/			
1 1	D 25	7 640	2 399~7 131	375	
2		4 650	4 313	975	
3	D 16	7 430	7 376~7 109	240	
4	D 12	15 190	14 100	390	
	•	4 270	4 170		
-	,	15 260	14 802	390	
1	,	500	119	195	
		663	545~216	111	
FI	D 25	1 750	3 545	800	
2	D 13	1 800	1 105	195	
3	D 16	1 250	1 450	800	
4		4 670	3 130	210	
5		15 280	14 800	430	
-	D 13	15 190	14 100	390	
1	-	15 190	14 100	390	
- 1	•	1 160	128	279	111
9	•	2 150	834	238	111
T 4	D 25	7 350	7 131~6 818	375	
* ;	B 5.0	4 690	4 313	175	
	D 15	1 200	7 109~6 797	248	
<u> </u>	D 13	15 190	14 800	390	
. 4					
- 1	,		2 137~14 712	390	
5	3	8 970	2 837~14 712 44 803		
_			2 837~14 712 14 803	390	
5	,	8 970 15 200	14 803	390 390	
5 6 7	,	- 8 978 15 200 500	14 803	390 398 495	
5 6 7	,	- 8 978 15 200 500 640	14 803 110 625~195	390 390 695	
5 1 1 1	, D 25	- 8 978 15 200 500 640 4 770	14 803 110 625~195 3 966	390 398 495 111 800	
5 1 1 1 1 1 2	D 25	8 970 15 200 500 640 4 770 1 750	14 803 110 628~195 3 566 1 554	390 390 695 114 800	
5 4 7 4 F (	D 25 D 13 D 16	8 970 15 200 500 640 4 770 1 750 2 250	14 803 110 628 ~ 195 3 966 1 594 1 450	390 390 695 111 800 695	
\$ # # # # # # # # # # # # # # # # # # #	D 25 D 13 D 16	15 200 500 610 4 770 1 750 2 250 4 070	14 803 110 628 ~ 195 3 966 1 534 1 450 2 839	398 398 495 111 800 495 900 240 430	
5 4 7 8 F 1 2 3 4	D 25 D 13 D 16	15 200 15 200 500 640 4 770 1 750 2 250 4 070 15 280	14 803 110 625 ~ 195 3 964 1 594 1 450 3 839 14 800	398 398 495 111 800 495 900 240 430	
5 4 7 8 F ( 2 3 4 S	D 25 D 13 D 16	15 200 500 640 4 770 1 750 2 250 4 070 15 280 15 190	14 803 110 625 ~ 195 3 964 1 594 1 450 3 829 14 800 16 800	398 398 495 111 800 495 900 240 430	
5 6 7 8 F ( 2 3 4 S	D 25 D 13 D 16  P 13	15 200 500 640 4 770 1 750 2 250 4 070 15 280 15 190	14 803 110 625 ~ 195 3 964 1 594 1 450 2 829 14 800 16 800	390 398 495 111 800 495 900 240 430 390	
5 6 7 8 7 3 4 5 6 7	D 25 D 13 D 16 F	15 200 500 640 4 770 1 750 2 250 4 070 15 280 15 190 15 190 2 160	14 803 110 625 ~ 195 3 966 1 534 1 450 2 839 14 800 14 830 14 800 828	390 398 495 111 800 495 900 240 430 390 390	
5 6 7 8 7 3 4 5 6 7	D 25 D 13 D 16 F	15 200 500 640 4 770 1 750 2 250 4 070 15 280 15 190 15 190 2 160	14 803 110 625 ~ 195 3 966 1 534 1 450 2 839 14 800 14 830 14 800 828	390 398 495 111 800 495 900 240 430 390 390	

RELY	Ø (81)	LENGTE		b	·
SQ.	تتنا	(11)	1	L	·
1	N 45 1	\$ 220	7 977~7 118	375	
1 !	D 25	6 850	4 1(3	375	<del> </del>
2			1	240	<u> </u>
3	11	8 060	7 957~7 686		
	D 13	15 150	14 300	390	
5		8 550	8 \$71		
	-	15 200	14 102	393	
1		500	110	195	
	'	610	694~183	111	
Ft	D 25	4 700	3 900	800	
2	911	1 850	1 650	195	
3	916	2 250	1 450	800	
. 4	,	4 919	3 130	240	
5		15 280	14 869	480	
6	0 13	t5 150	14 800	390	<u> </u>
1	,	15 190	14 190	390	L
8	,	2 160	121	219	181
9	•	2 189	834	289	111
11					
<b>T</b> :	D 25	7 360	7 710~7 441	375	
1	•	4 690	4 313	375	
1	9 18	7 809	7 686~7 415	240	
- 6	D 13	15 190	14 490	390	
5		7 649	7 640		
6		15 200	14 802	390	
7	,	500	110	155	
8	,	660	673~201	311	
F !	D 25	4 730	3 921	800	
1	0 13	1 839	1 623	155	
3	D 16	2 250	1 450	865	
-	,	4 0:0	3 830	240	
5	,	15 280	14 800	450	
	0 (1	15 190	t4 800	330	
7	•	15 190	14 809	390	
<u> </u>	,	2 160	328	279	[]]
-	,	2 189	324	283	111
<b>⊢</b> -	L	L			
<u> </u>					
<b></b>					
<b>!</b>					

E [ 3 50_	<b>♦ (19)</b>	LESGEH	1	ь	٠
7 3					<del> </del>
1	0 25	2 694	7 442~7 174	175	
1	•	4 590	4 313	375	
3	916	7 530	7 415~7 152	246	
4	D 13	15 190	14 900	390	
5	•	6 694	6 685		
6	•	15 200	14 991	190	
1		\$04	110	195	
:	•	610	652~189	- 111	
1	D 25	( 150	3 942	800	
ŧ	D 13	E \$18	L \$08	195	
3	D 16	2 250	1 450	896	
4	•	1 010	3 830	240	
ş	•	15 289	14 800	480	
í	D 13	15 190	t4 800	399	
1	•	15 150	£4 83Q	150	
Ī	•	1 160	821	175	111
1		2 130	634	288	111
1	D 25	1 409	7 176~1 861	375	
			1		
1		4 699 7 219	4 313 T 151~5 840	175 140	
+	1 16			390	
	0 13	15 190	14 800	330	
- 6		4 510	14 803	390	
•		500	11 803	195	
8		£10	631~199	133	<u></u> -
i	9 25	4 779	3 563	800	
2	9 13	1 199	1 587	195	
	2 16	2 250	450	8.00	
-	•	1 070	3 830	140	
5		15 230	I4 800	490	
	0 13	15 190	14 800	398	
7		15 150	008 01	390	
-		1 160	\$28	275	111
-		1 130	814	298	111
	· · - · · · ·		<b></b>		



IAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

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

JICA STUDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL
FUNDAM CONSULTANTS INTERNATIONAL
DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

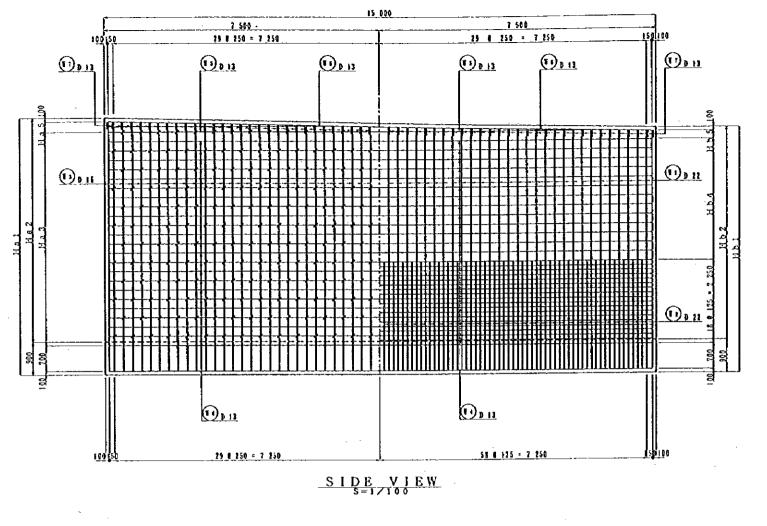
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

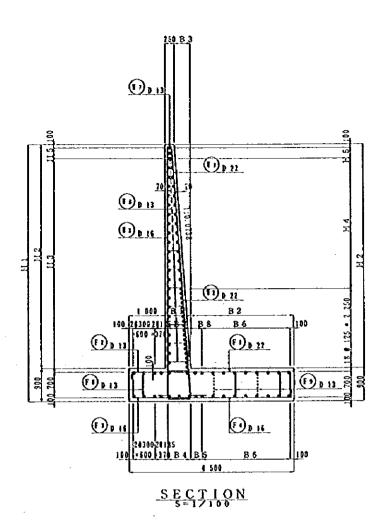
DITCH : R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (4)

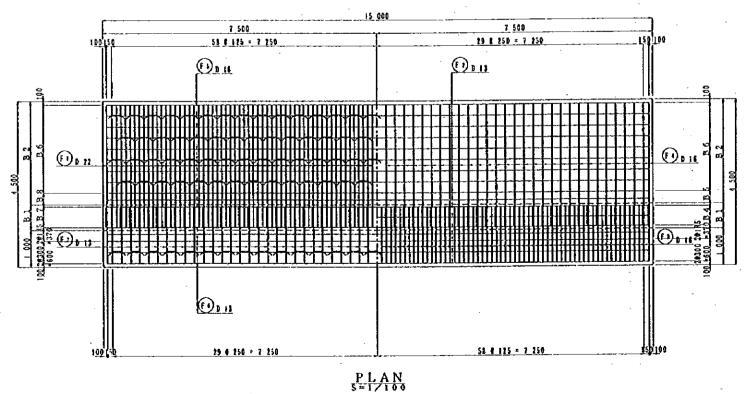
DATE

DYG NO. W - 28

SQTES:



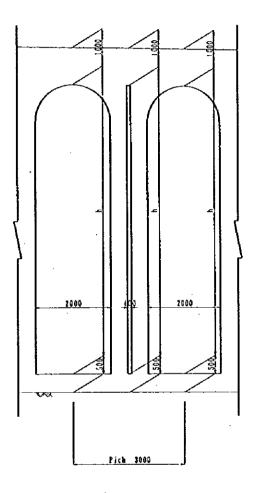




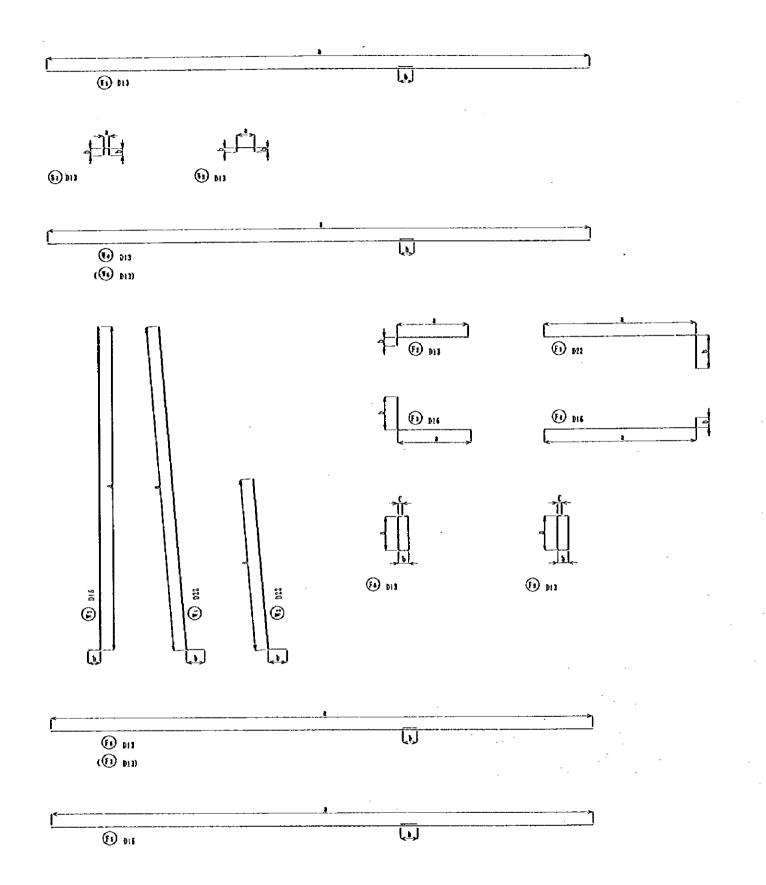
MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS JAPAN INTERNATIONAL COOPERATION AGENCY CLIENT : D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY PROJECT : TICA STEDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL
FUNLYANA CONSULTANTS INTERNATIONAL R/A-5, AL NULADDAH RE-BAR ARRANGEMENT (5) TITLE DEG NO. W-29 DATE

(IICA)

	<u> </u>	(T-	<u> </u>			(T-	<b>6</b>			(T-	<b>D</b>	
		a - a	Ī ]	b b		a – a		b b		a – a		b - b
	Hal	6 8 9 7	ньі	6 5 8 5	ii a 1	6 5 8 5	116.1	6 2 2 8	Hai	6 2 2 8	11 b 1	5 8 7 1
	Ha2	. 5 9 9 7	1 <b>i b</b> 2	5 6 8 5	li a 2	5 6 8 5	нь 2	5 3 2 8	II a 2	5 3 2 8	Hb2	4 9 7 1
Α	li a 3	238250 = 5750	Hb3	220250	li a 3	226250 = 5 500	ньз	219250 $= 5250$	Ha3	216250 = 5 250	Н Ь З	$   \begin{array}{r}     199250 \\     = 4750   \end{array} $
11	lia 4	140250 = 3500	Hb 4	130250	B a 4	130250 = 3250	H b 4	$\begin{array}{c} 1 & 2 & 0 & 2 & 5 & 0 \\ = & 3 & 0 & 0 & 0 \end{array}$	Ha4	120250	нь 4	$ \begin{array}{r} 100250 \\ = 2500 \end{array} $
;	Ha5	2 4 7	НЪ5	185	Н в 5	185	ньз	7 8	Ha5	7 8	I <b>I b</b> 5	223
L	Bal	692	B b I	6 5 9	8 8 1	6 6 9	въі	6 4 3	Ba1	643	B b 1	617
I	Ba2	2 808	B b 2	2 8 3 1	8 a 2	2 8 3 1	B b 2	2 8 5 7	B a 2	2 8 5 7	В Ь 2	2 8 8 3
N	Ba3	442	B b 3	419	8 a 3	419	въз	393	Ba3	393	вьз	367
E	Ba4	20305.5	Въ4	2 @ 2 9 4 = 5 8 8	Ba4	20294 = 588	B b 4	20281 = 562	Ba4	2 @ 2 8 1 = 5 6 2	В в 4	2 <b>6</b> 2 6 7. 5 = 5 3 5
	B a 5	20159.5 = 319	B b 5	2@171 = 342	B a 5	2 0 1 7 1 = 3 4 2	В b 5	20184 = 368	8 a 5	20184 = 368	B b 5	20197.5 = 395
1	Ba6	8 2 3 0 0 = 2 4 0 0	B b 6	80300 = 2400	Ва 6	8@300 = 2400	B b 6	80300 = 2400	Ba6	80300 = 2400	ВЬ 6	80300 = 2400
	B a 7	5 5 9	B b 7	5 3 6	ВаЗ	536	B b 7	510	Ba7	510	ВЬ 7	484
	Ва 8	20185.5 = 371	Въ8	20197 = 394	Ba8	2 @ 1 9 7 = 3 9 4	в ъ в	26210 = 420	Ba8	2 @ 2 1 0 = 4 2 0	B b 8	20223 = 446
		Ţ	-3)			<u>(1-6)</u>			<b> </b>	<u>(1</u>	2)	
		a - a _		b - b		a – a		b - b		a a		b - b
	Ha 1	6 9 4 0	H b 1	6 6 2 8	Ha 1	5 6 2 8	H b 1	6 2 7 1	Hai 	6 2 7 1	НЪ1	5 9 1 4
	Ha2	6 0 4 0	H b 2	5 7 2 8	Ha 2	5 7 2 8	НЬ 2	5 3 7 1	Ha 2	5 3 7 1	Н в 2	5 0 1 4
B	Ha3	240250 = 6000	нь з	2 2 @ 2 5 0 = 5 5 0 0	ila 3	220250	НЬ 3	216250 = 5250	Ha3	= 5 250 $= 250$ $= 250$	нь 3	= 5 0 0 C 1 1 0 2 5 0
1	ll a 4	108250	НЬ4	130250 = 3 250	II a 4	$\begin{array}{r} 130250 \\ = 3250 \end{array}$	Hb 4	120250	Ha4	= 3 0 0 Q	Hb 4	= 2 750
L	Ha5	4 0	H b 5	2 2 8	Ha5	228	НЪ5	121	lla 5	121	H b 5	14
	Bal	696	ВЬ1	6 7 3	Bal	. 673	ВЬІ	6 4 6	Bal	646	Bbl	620
'	Ba2	2 8 0 4	В в 2	2 8 2 7	Ba2	2 8 2 7	Bb2	2 8 5 4	Ba2	2 8 5 4	Bb2	2880
N	ВаЗ	446	B b 3	4 2 3	Ва3	423	B b 3	396	Ba3	396	вьз	370
E	Ba4	26307	B b 4	2 8 2 9 5. 5 = 5 9 1	Ba4	20295.5 = 591	B b 4	= 565 20182.5	Ba4	= 565 20182.5	ВЬ4	= 539 20195.5
	Ba5	2 @ 1 5 8 = 3 1 6	B b 5	20169. 5 = 339	Ba5	20169.5 = 339 80300	B b 5	= 365 80300	Ba5	= 365 80300	B b 5	= 391 80300
	Ba6	8 @ 3 0 0 = 2 4 0 0	B b 6	86300 = 2400	Bab	= 2 400	B b 6	= 2 4 0 0	Ваб	= 2 400	866	= 2 400
	Ba7	563 20183.5	B b 1	5 4 0 2 <b>Q</b> 1 9 5	B a 7	540 20195	Bb7	5 ) 3	Ba?	513 20208.5	В Б 7	487
L.	Ba8	= 367	В Ъ 8	= 390	8 a 8	= 390	Във	= 417	Bas	= 417	ВЬ8	= 443



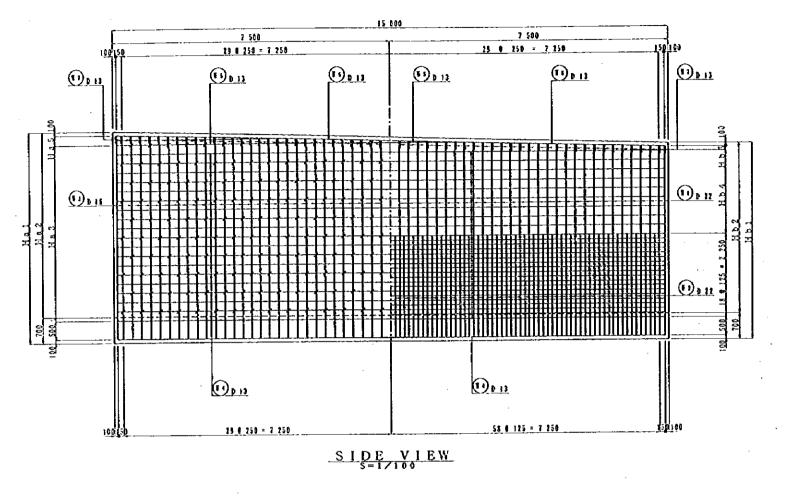
Slit Shape in Front of Tall (Thickness 1=30 nm)

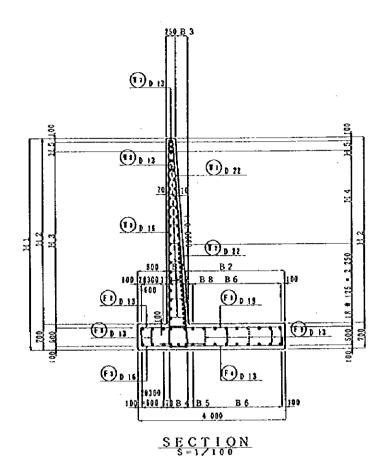


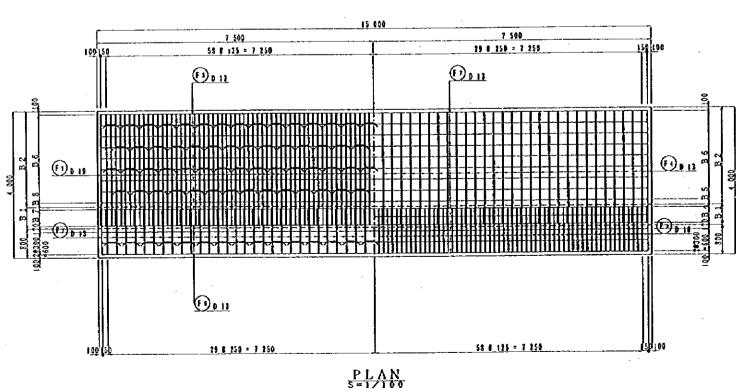
RESS SO.	¢ (ex)	\$ £ 3 G 7 H	Ł	3	4
T 5					
7 1	D 22	6 899	6 715~6 401	230	
	•	3 290	2 958	338	
3	9 16	6 790	6 697-8 385	240	
- 1	0 13	ES 190	14 800	390	
5	,	11 \$80	11 875		
		15 700	14 BO3	390	
7	•	\$00	310	195	
- 1	•	620	573~205	HI	
Fl	D 12	4 140	3 431	700	
1	D 13	L 730	1 529	- 195	
3	D 16	2 150	) 450	700	
1	,	3 570	3 330	248	
5		IS 280	14 500	450	
	D 13	15 190	14 890	390	
<del>-</del> -		15 130	14 100	390	
	,	1 950	728	273	itt
•	,	1 980	732	285	111
		1 330			y
7.					
16	D 21	4 560	6 403~6 044	330	T
1 3			2 958	338	<del> </del>
	*	3 190		240	<u> </u>
3	D 16	6 450	6 385~6 028	390	<del></del>
	D 13	1\$ 190	14 806	·	<del>                                     </del>
		1 780	7 773		
		15 200	14 194	390	
		500	119	195	
		61 <b>0</b>	550~211	- 111	
FI	B 22	€ 160	3 454	700	
	D 13	1 710	1 504	135	ļ. <del></del>
	911	2 150	1 450	700	
•	<u>'</u>	3 570	3 330	249	
5		15 280	14 800	410	
6	D 13	15 190	14 800	390	
7		15 198	14 800	199	
I.	•	1 960	728	273	!!)
3	'	1 980	732	285	111
	· ·				<del></del> .
17					
T I	D 22	6 200	6 044-5 686	339	
2		1 290	2 558	330	
3	DII	6 093	4 028~5 671	240	
4	0 13	15 190	14 800	394	
5		1 730	3 177~11 781		
. 6		F\$ 200	14 804	393	
3	•	500	110	135	
	•	\$80	524~132	111	
Fi	D 22	4 180	3 480	104	
2	D 13	1 680	1 480	195	<del></del>
3	9 16	2 150	1 450	î00	
4	•	3 574	3 330	240	
5	-	15 280	14 800	480	
6	9 13	15 190	14 800	390	
7		15 190	14 800	390	
1		1 960	721	279	111
1	•	1 980	731	285	111
		•			
L					

REIN NO.	\$ (ez)	LENGIB (ea)	2		، ا
1.5			L		
1	D 22	6 940	6 758~f 445	330	
1		3 290	2 951	330	
	D 15	£ 130	6 740-6 428	243	
	D 13	15 190	14 800	320	
		\$ 120	1 523-13 542	390	
				390	
- (		15 200	14 803	195	<u> </u>
_!		500	110 (33 - 100		<u></u> -
		639	\$71~108	111	
£ )	D 22	4 130	3 427	760	ļ
	D 13	1 730	£ 533	195	<u> </u>
3	D 16	1 158	1 450	100	ļ <u></u>
. 1	•	3 570	3 330	240	
5	•	15 280	14 899	460	
- 6	D 13	15 190	14 800	350	<u> </u>
7	•	15 190	14 809	390	
1	•	1 560	728	275	111
9		1 550	732	185	111
16					
T 1	D 22	6 600	6 445~6 088	330	
1		3 259	2 951	330	
3	D 16	6 490	\$ 428~6 471	240	
4	9 (3	15 190	14 200	390	
5	•	9 588	9 589	-	
	-	15 200	14 804	390	
7	-,-	500	TID	195	
-	-	800	\$54~185	111	
FI	9 22	4 150	3 450	700	<u> </u>
2	0 13	1 714	L 510	195	<del></del>
3	0 16	2 158	1 450	700	<u></u>
4		3 570	3 330	240	
5		15 289	14 800	480	
		15 190	14 100	390	
	0 13	15 150	14 800	390	
7	<u>-</u>	1 960	728	279	101
	<del></del>	1 380	732	285	101
,	<u></u>	1 700	1412	203	L
• • •					
17	F		1	226	Τ
<u> </u>	B 22	6 240	6 053~5 730	330	+-=-
		3 290	2 958	330	<del> </del>
	D 16	6 140	6 071~5 713	249	<del> </del>
	D 13	15 150	14 809	350	<u> </u>
	•	5 090	\$ 081		<del> </del>
	-	ES 200	14 804	353	ļ- <u></u>
. 1	•	500	110	195	<del>  ==</del> -
	,	590	527~195		<b>↓</b> = -
F 1	D 27	4 180	3 477	160	<del></del> -
2	D 13	1 660	1 483	195	
3	D 16	1 150	1 450	100	<b>↓</b> _=
- 4	•	3 570	3 333	240	<u> </u>
5	•	15 280	14 800	480	<u> </u>
6	D 13	15 150	14 805	390	
	•	15 190	14 860	390	
1	-	1 560	728	279	111
7					1 141
	,	6 980	732	285	111
1	_	1 980	732	185	1

	<del></del>	
JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
(IICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
JICA STUDY TEAN	TITLE	R/A-S. AL WULADDAH RE-BAR ARRANGEMENT (7)
PACIFIC CONSULTANTS INTERNATIONAL FUNCHANA CONSULTANTS INTERNATIONAL	DATE	DEG NO.W-31







IAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

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

JICA STICDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUNCTURAL CONSULTANTS INTERNATIONAL
DATE

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

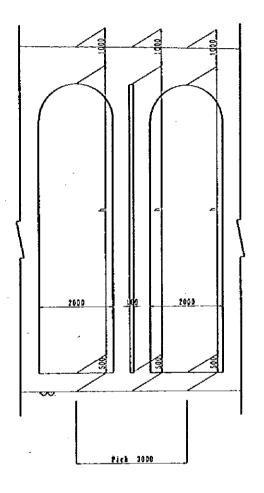
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE: R/A-S, AL MURADDAH RE-BAR ARRANGEMENT (8)

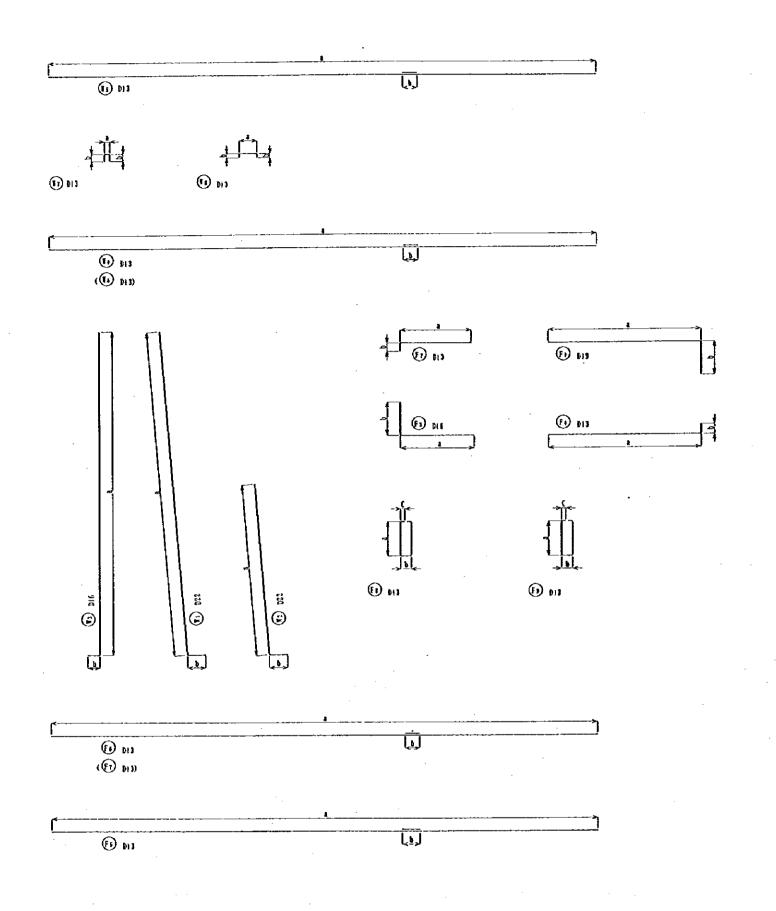
DATE

DWG NO. W ~ 32

	(T-8)				T-9			
		a - a		b - b		a – a		b - b
A I L I	II a 1	5 6 7 1	H b 1	5 2 6 9	Ha 1	5 2 6 9	ньі	4 8 6 7
	Ha2	4 9 7 1	H b 2	4 5 6 9	lla 2	4 5 6 9	II b 2	4 167
	Ha3	190250	ньз	180250	Ha 3	180250 = 4500	ньз	16@250
	Ha4	100250	H b 4	9 9 2 5 0	Ha4	9 9 2 5 0	H b 4	70250
	lia 5	2 2 1	Н Ь 5	6 9	Ha5	6 9	H b 5	1 6 7
	Bal	578	ВЬ1	5 5 2	Bal	5 5 2	ВЬ1	5 2 5
	В в 2	2 6 2 2	B b 2	2 6 4 8	B a 2	2 6 4 8	вь2	2 6 7 5
N	Ba3	3 2 8	вьз	302	Ba3	302	863	275
E	Ba 4	20238.5	B b 4	20225.5	Ba4	20225.5	B b 4	20212 = 424
	8 a 5	153	B b 5	179	Ba S	179	B b 5	206
	Ba6	80300 = 2400	8 b 6	80300 = 2400	Ваб	8 @ 3 0 0 = 2 4 0 0	B b 6	80300
	Ba7	444	8 b 7	418	Ba7	418	B b 7	391
	Ba8	186	B b 8	2 1 2	Ba8	2 1 2	В ъ 8	2 3 9
	T-8				7-9			
В		a – a		b - b		a - a		b - b
	Hal	5 714	H b 1	5 3 1 2	Ha1	5 3 1 2	ньі	4 9 1 0
	H a 2	5 014	Н 6 2	4 6 1 2	Ha2	4 5 1 2	нь2	4.210
	Н в 3	200250 = 5000	Нь3	18@250 = 4500	Ha3	18@250 = 4500	H b 3	160250 = 4 000
lι	Ha4	110250	НЪ4	90250	Ha4	90250 = 2250	H b 4	76250 = 1750
L I	Ha5	3.4	ньь	112	Ha 5	. 112	H b 5	210
	Bal	561	Въ 1	5 5 5	Bal	5 5 5	B b 1	5 2 8
	Ba2	2 6 1 9	В Ь 2	2 6 4 5	Ва2	2 6 4 5	B b 2	2 6 7 2
N	Ba3	3 3 1	вьз	305	B a 3	305	вьз	278
Е	B a 4	20240	B b 4	20227 = 454	Ba4	20227	B b 4	20213.5 = 427
	Ba 5	150	В Ъ 5	176	B a 5	176	вьѕ	203
	B a 6	80300 = 2400	B b 6	80300 = 2400	B a 6	8 0 3 0 0 = 2 4 0 0	Вьб	80300 = 2400
	8 1 7		8 b 7	4 2 1	B a 7	421	В Ъ 7	3 9 4
	B a 8	183	В ъ 8	209	8 a 8	209	В Ь 8	236



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

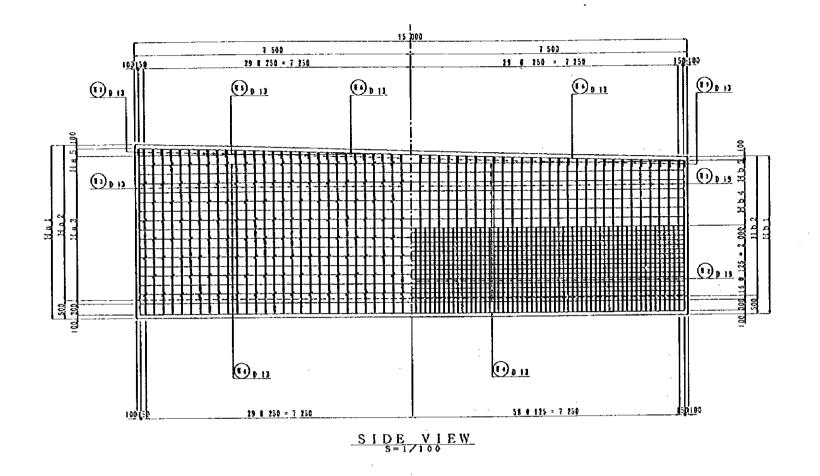


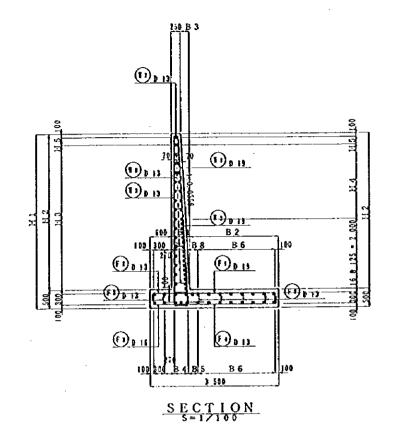
NOTES:

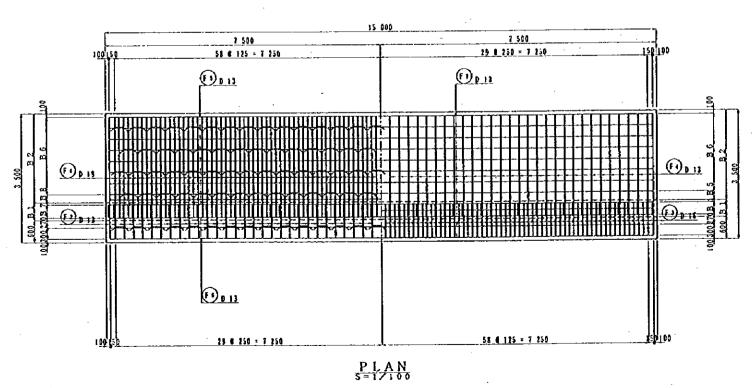
RELN SQ	o (en)	LENGIR (es)	1	b	ę
11			·		<del></del> -
1 1	D 21	5 629	5 483~5 690	330	
2	* **	3 690	2 756	339	
,	D 16	5 510	5 471~5 069	246	
4	D 13	15 190	14 800	390	
5	-	1 150	8 246		
6	<b></b> ,	15 200	14 805	150	
÷	,	500	110	185	
<u> </u>	-,	550	460~196	111	
FI	D 19	3 660	3 156	500	
1 2	D 13	1 419	1 214	195	
3	D 16	1 750	1 250	500	i
1	D 13	3 230	3 630	195	
\$	-	15 190	14 800	190	
<u> </u>		15 190	14 890	390	
7		12 190	14 800	350	<u> </u>
1	•	1 550	528	179	111
3	,	1 578	519	282	111
	·				·
19		-	· · · · · · · · · · · · · · · · · ·		
1 1	D 12	5 220	5 080-4 687	130	
}	,	3 030	1 756	330	
3	D 16	5 110	5 063~4 667	24D	
•	9 13	15 190	14 BOG	396	
5		7 240	2 575~11 903		
	,	15 200	14 805	390	
7	,	506	110	195	
8	•	550	434~203	111	
FI	D 13	3 699	3 182	500	
2	B 13	1 198	L 188	198	
3	0 15	1 750	I 250	500	
- 5	D 13	3 230	3 030	135	
5	,	(5 190	14 800	390	
5		ES 190	14 800	390	
7	•	15 190	14 800	330	
8	•	1 560	528	275	111
,		1 579	529	282	111
l		·			
				· · · · · · · · · · · · · · · · · · ·	
Ŀ					

REIN NO.	Q (5P)	LENGIR (rm)	[ a	<b>3</b>	٠ (
18		(TB)			·
111	D 22	5 660	5 516~5 123	330	
	•	3 690	2 756	330	
-	D 16	5 560	5 514~5 117	247	
	D 13	15 190	14 800	390	
	• •	\$ 190	522~9 851		
	<del>-</del>	15 200	14 805	290	<del></del>
	,	500	110	195	
÷	•	560	463~193	<u> </u>	
+	D 13	3 660	3 153	\$00	
• •	0 13	1 420	1 217	135	
3	D 16	1 750	1 250	500	
	D 13	3 230	1 030	135	
5	9 13	15 190	14 800	390	<del></del>
		15 190 15 190	14 800	390	
	•		14 800	350	<del></del>
7		15 190 1 560	521	279	111
3			523	202	111
3		1 570	727		L
7 5		<del>-</del>			
	D 12	5 260	5 123~4 720	330	I
	9 11	3 090	2 756	330	
2	B 16	\$ 160	5 112~4 710	240	· · · · · · · · · · · · · · · · · · ·
			14 800	390	
- \$	D 13	15 190 9 040	4 179~13 507	390	<del></del>
	•			390	
- 1	•	15 200 500	£4 895	195	
			137~205	111	<del></del>
B B		550 3 680	3 179	500	<del> </del>
FI	D 13	3 650 6 390	1 191	195	
2	D 13		1 250	500	<del> </del>
3	0 16	1 750 3 230	3 030	135	
- {	D 13	15 190	16 800	130	
5		-	<b>!</b>	350	
6	•	15 190	14 800 14 800	390	
3		15 190	528	279	111
8	-	1 560	529	282	111
	<u> </u>	1 570	329		
					<del></del> -
			<u>.</u>		<del>-</del>
				· ———	
			<del></del>		

$\cdot$			
	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(11CA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH KIGHWAY
	FACIFIC CONSULTANTS INTERNATIONAL	TITLE	R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (10)
	FERLYANA CONSULTANTS INTERNATIONAL	DATE	DTG NO. W-34







JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

JICA STUDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL
FIREYANA CONSULTANTS INTERNATIONAL
DATE

DATE

DATE

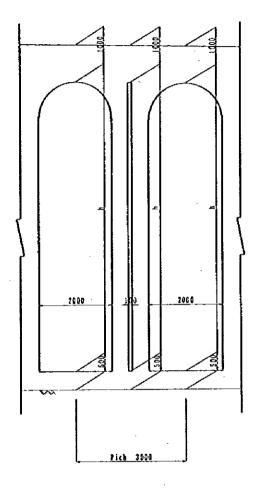
DATE

TITLE: R/A-5, AL WULADDAH RE-BAR ARRANGEMENT (11)

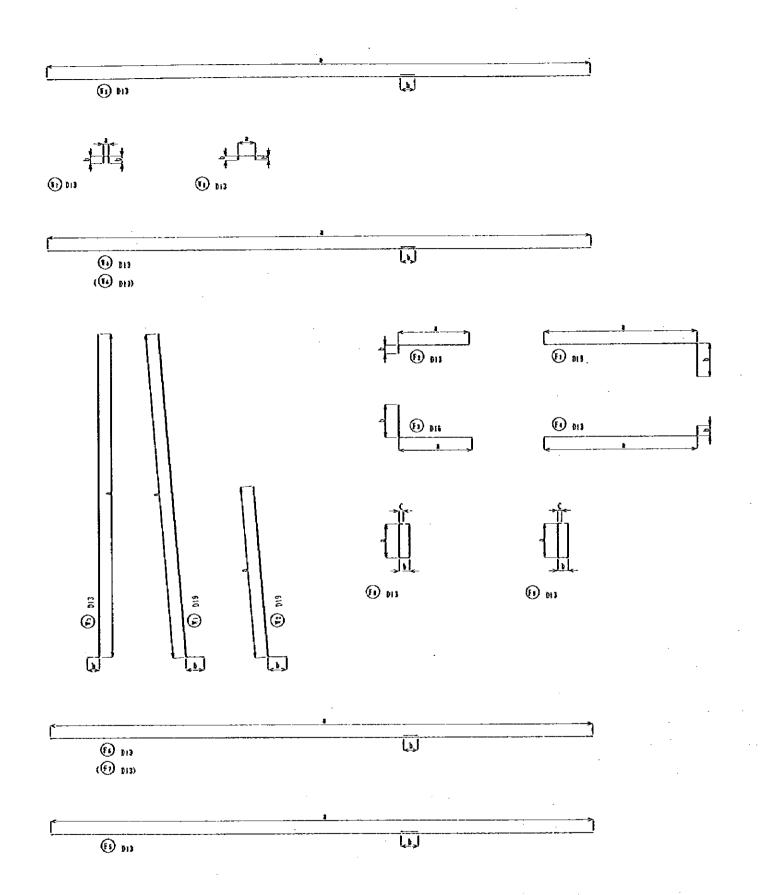
DATE

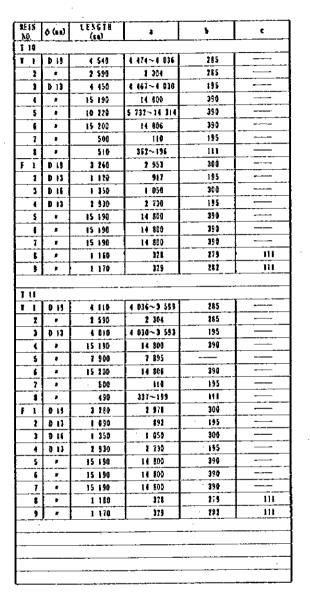
NOTES:

	T	6	-	<del></del> -		(T-	<u></u>	
	-	a - a	<u>עיי</u>	b - b		a - a		b - b
	H a 1	4 6 6 7	нь 1	4 2 3 0	ilal	4 2 3 0	11 6 1	3 793
		4 167	нь2	3 730	H 3 2	3 7 3 0	Нь2	3 2 9 3
Α	Ha2	150250	 Н b 3	140250	Ha3	140250	Нь3	139250
	Ha 3	= 4 0 0 0 8 @ 2 5 0	Hb4	= 3 500 60250	Ha4	= 3 500 60250	нь4	= 3 250 50250
	Ha4	= 2 000		= 1 500 230	Ha5	= 1 500 230	11 b 5	= 1 250 43
L	Ha5	167	H b s				Bbl	433
I	Ba1	482	Bbl	4 5 7	Bal	4 5 7		2 4 6 7
	8 8 2	2 4 1 9	862	2 4 4 3	B a 2	2 4 4 3	B b 2	
N	Ba3	232	ВЬЗ	207	Ba3	207	B b 3	183
Е	Ba4	= 363	B b 4	= 339	Ba4	= 339	8 b 4	= 315. 20157.5
ļ	Ba5	267	B b 5	291 70300	B a 5	= 291 70300	B b 5	= 315 76300
1	B a 6	76300 = 2100	866	= 2 100	Ba6	= 2 100	B b 6	= 2 100
	B a 7	3 4 7	В 6 7	3 2 2	8 a 7	3 2 2	B b 7	298
	B a 8	20141.5 = $283$	Въ8	20154	B a 8	20154 = 308	В в 8	20166
	Ĺ	(T-	10			<b>G</b> -	11)	
•						·		
l		a - a		b - b		a a		b - b
	На 1	a - a 4 710	нъз	b - b 4 2 7 3	Ha1	a a	Нъ1	b - b 3 8 6 5
	H s 1		НЪ1 НЬ2	4 2 7 3	Hal Ha2	4 2 7 3	нь 2 нь 2	3 8 6 5
В		4 7 1 0		4 2 7 3		4 2 7 3 3 7 7 3 1 5 6 2 5 0 = 3 7 5 0		3 8 6 5 3 3 3 5 1 3 9 2 5 0 = 3 2 5 0
В	На2	4 710 4 210 16@250 = 4 000 8@250	нь2	4 2 7 3 3 7 7 3 1 5 @ 2 5 0	Ha2	4 2 7 3 3 7 7 3 1 5 8 2 5 0	нь 5	3 8 6 5 3 3 3 5 1 3 @ 2 5 0
	Ha2	4 7 1 0 4 2 1 0 1 6 2 5 0 = 4 0 0 0	нь2 нь3	4 2 7 3 3 7 7 3 1 5 0 2 5 0 = 3 7 5 0 7 0 2 5 0	Ha2 Ha3	4 273 3 773 150250 = 3 750 70250	ньз ньз	3 865 3 335 13@250 = 3 250 5@250 = 1 250
	Ha2 Ha3 Ha4	4 7 1 0 4 2 1 0 1 6 @ 2 5 0 = 4 0 0 0 8 @ 2 5 0 = 2 0 0 0	нь2 нь3 нь4	4 273 3 773 150250 = 3 750 70250 = 1 750	H a 2 H a 3	4 273 3 773 15@250 = 3 750 7@250 = 1 750	Н Б 2 Н Б 3 Н Б 4	3 865 3 335 13@250 = 3 250 5@250 = 1 250
	Ha2 Ha3 Ha4	4 710 4 210 16@250 = 4 000 8@250 = 2 000 210 484	нь2 нь3 нь4 нь5	4 273 3 773 150250 = 3 750 70250 = 1 750 23	На2 На3 На4 На5	4 273 3 773 156250 = 3 750 76250 = 1 750 23 460	H b 2 H b 3 H b 4 H b 5	3 865.  3 335  13@250 = 3 250 5@250 = 1 250  115  435
L	Ha2 Ha3 Ha4 Ha5	4 710 4 210 16@250 = 4 000 8@250 = 2 000 210 484 2 415	H b 2 H b 3 H b 4 H b 5 B b 1	4 273 3 773 150250 = 3 750 70250 = 1 750 23	Ha2 Ha3 Ha4 Ha5	4 273 3 773 156250 = 3 750 76250 = 1 750 23 460	H b 2 H b 3 H b 4 H b 5 B b 1	3 865 3 335 13@250 = 3 250 5 @250 = 1 250 115 435 2 465
L I N	Ha2 iIa3 Ha4 Ha5 Ba1 Ba2	4 710  4 210  16@250 = 4 000 8 @250 = 2 000 210  484 2 416 234 2@183	Hb2 Hb3 Hb4 Hb5 Bb1	4 273 3 773 150250 = 3 750 7 0 2 5 0 = 1 7 5 0 2 3 4 6 0 2 4 4 0 2 1 0 2 0 1 7 0 . 5	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2	4 273 3 773 158250 = 3 750 78250 = 1 750 23 460 2 440	H b 2 H b 3 H b 4 H b 5 B b 1 B b 2	3 865 3 335 13@250 = 3 250 5@250 = 1 250 115 435 2 465
L	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2	4 710  4 210  16@250 = 4 000 8 @250 = 2 000 210  484 2 416 234 2@183 = 366	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2	4 273 3 773 1 5 8 2 5 0 = 3 7 5 0 7 8 2 5 0 = 1 7 5 0 2 3 4 6 0 2 4 4 0 2 1 0 2 0 1 7 0 . 5 = 3 4 1	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3	4 273 3 773 158250 = 3 750 78250 = 1 750 23 460 2440 210 20170.5 = 341 20144.5	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2	3 865.  3 335  13@250 = 3 250 5 @250 = 1 250  115  435 2465  185
L I N	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2 Ba3	4 710  4 210  16@250 = 4 000 8@250 = 2 000 210  484 2 416 2 34 2@183 = 366 264 7@300	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	4 273 3 773 150250 = 3 750 70250 = 1 750 23 460 2 440 210 20170.5 = 341 289 70300	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3	4 273 3 773 158250 = 3 750 78250 = 1 750 23 460 2 440 210 20170.5 = 341 20144.5 = 289 78300	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	3 865 3 335 13@250 = 3 250 5 @250 = 1 250 115 435 2 465 185 20158.5 20156.5
L I N	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3 Ba 4	4 710  4 210  16@250 = 4 000 8@250 = 2 000 210  484 2 416 2 3 4 2@183 = 366 264 7@300 = 2 100	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	4 273 3 773 150250 = 3 750 70250 = 1 750 23 460 2 440 210 20170.5 = 341 289 70300 = 2 100	Ha2 Ha3 Ha4 Ha5 Ba1 Ba2 Ba3 Ba4	4 273 3 773 158250 = 3 750 78250 = 1 750 23 460 2440 210 28170.5 = 341 28144.5 = 248 78300 = 2100	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4	3 865  3 335  130250 = 3 250 50250 = 1 250 115 435 2 465 185 20158.5 20156.5 = 317 20156.5 = 317 20156.5
L I N	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3 Ba 4 Ba 5 Ba 6	4 710  4 210  16@250 = 4 000 8 @250 = 2 000 210  484  2 416 2 34  2 @183 = 366 2 64  7 @ 3 0 0 = 2 1 0 0 3 4 9	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4 Bb5 Bb6	4 273 3 773 150250 = 3 750 7 0250 = 1 750 23 460 2 440 210 20170.5 = 341 289 70300 = 2 100 325	Ha 2 Ha 3 Ha 4 Ha 5 Ba 1 Ba 2 Ba 3 Ba 4 Ba 5 Ba 6	4 273  3 773  150250 = 3 750  70250 = 1 750  23  460  2440  210  20170.5 = 341 20144.5 = 289 70300 = 2100 325	Hb2 Hb3 Hb4 Hb5 Bb1 Bb2 Bb3 Bb4 Bb5 Bb6	3 865  3 335  130250 = 3 250 = 1 250 115 435 2 465 185 20158.5 = 317 20156.5 = 3137 20156.5 = 3137 20156.5



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





RE IN NO.	φ (ez)	LEXGIE (re)	1	b	τ
TIO		l	<u> </u>		
1 )	D 13	4 590	4 517~4 079	2 BS	
1	•	2 590	2 304	185	
3	D 13	4 490	4 510~4 073	195	
		15 150	14 800	399	
5		7 219	7 708		
		15 200	14 806	390	<del></del>
7		500	118	195	
8		SID	364~198	111	
Fi	D 13	3 269	1 951	309	
1	D 13	1 120	313	195	
3	D 16	1 350	t \$50	300	
1	D 13	2 530	2 736	195	
\$		15 110	14 800	390	
		15 190	14 800	390	
7	•	15 190	14 800	390	
ı		1 160	321	279	111
3		1 179	129	212	111
111			-		
¥ 1	D 15	4 169	4 075~3 671	285	
2	•	1 590	2 334	285	
3	0 13	4 079	4 073~3 665	155	
€	-	15 150	14 800	390	
5	•	5 450	846~10 037		
6	,	15 200	14 805	390	
7	•	500	110	135	
ı	,	430	340~168	111	
FI	D 13	3 280	1 975	300	
2	0 13	1 099	195	195	
)	0 16	1 350	1 850	300	
4	D 13	1 539	2 730	195	
5		15 190	14 800	390	
•		15 190	14 800	399	
7	•	15 190	14 800	190	
1	•	1 160	324	279	311
3	•	1 176	323	182	111
				<del> </del>	
<u> </u>					

NATE AND DESCRIPTION OF THE PROPERTY OF THE PR	1 JA	APAN INTERNATIONAL COOPERATION AGENCY		MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NOIES:		(JICA)	PROJECT :	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAN	TITLE :	R/A-S, AL NULADDAH RE-BAR ARRANGEMENT (13)
		PACIFIC CONSCERANTS INTERNATIONAL T	DATE	DTC NO. W-37

REIS O (as) LENGTH SONESAL SUNB USEIGHT VEIGHT REMARKS 32 453 4 690 18.633 1 980. î 3 D 16 61 11.40 759. 3 8 920 1.552 4 D 13 15 130 0. 594 1 026.7 \$ 150 6 113 12.2 15 240 15, 109 30. 1 500 0.457 30. 1 259. 6 ~ 4 710 3. 973 2 226. L D 25 119 18.713 2 0 13 1 850 0. 594 1. \$35 112. 2 3 D 16 2 250 1.551 415. 5 119 6. 317 385.3 15 280 12 23, 715 284.6 6 D 13 15 150 15.655 75.5 15 19Ó 18 15.093 271. 8 O 2.111 2 160 29 61.3 2.167 314.2 Ü 7 150 145 9315.6 4 630 18.633 1 080.7 D 16 12.028 733.7 15 190 0. 334 15.099 996. 5 D 13 5 234 5. 139 10.4 15 700 15. 109 30. 2 30 3 • 582 D. 497 0. 656 251. 5 18.792 4 735 2 235.2 1 839 1 250 3, 452 415.5 4 076 6. 313 385. 3 15 280 29. 715 284. 6 0. 934 D 13 15 130 15, 439 75.5 15. 995 271. 8 Ü 2 160 2. 147 62.3 314. 2 O

A-LINE SO Q (CO) TENETE SONISAL MINE E AFIGHE AFICHE SENABLES 4 610 18.633 7 430 1.552 11.624 704 1 15 190 0. 934 54 15. 093 356. 3 4 D 13 4 270 4, 241 2.5 15. 109 30. 2 15 200 500 0.497 38 3 660 9. 656 232. 2 354 F 1 D 25 4 750 3. 973 18. 172 2 245. 1 1 800 0.994 1.785 149. I 2 0 13 415.5 1 250 1.552 3, 492 1 . 4 414 6. 317 385. 2 284 6 15 280 23, 715 6 D 13 15 190 0.994 15. 699 271 1 15, 899 15 199 3. 147 62. 3 O 2 169 29 <del>U</del> 2. 167 114.1 2 189 9073. 0 T 1 D 25 4 690 18, 633 1 010. 7 7 200 1.552 41 11.174 681. 6 3 D 16 4 D 13 15 190 0. 554 15. D99 905. 9 8. 516 \$ 970 29 7 15. 109 30. 3 500 0. 497 0.636 115 1 \$40 4 770 1.573 1 180 0.994 1.753 107. 9 2 9 13 61 3 0 16 2 250 1.552 3, 492 415. 5 285. 3 6.317 4 874 12 23.715 234.6 15 190 0.534 15.053 75. 5 £ 0 13 \$ 15 190 18 15.693 275. 8 25 62. 3 O 2 160 2.147 2.157 314 7 D 25 20819-1 D 16 7225. 3 D 13 8588.4 TOTAL PEIGBT 16551 1

B-LINE REIS O (ma) LESGER DONINAL NEWS E SCIENT VELGET DEMARKS T 1 0 25 1 850 7 18 633 4 636 3 D 16 \$ 840 1. \$52 61 12, 519 763.9 D 13 15 136 0. 334 61 15. 053 1 124 7 E 510 1. 529 17. 1 15 200 15, 109 34 9 500 4.417 30. 3 678 354 8.566 755.7 F 1 D 25 4 790 3.973 2 D 13 1 859 0.554 112.2 3 D 16 7 250 1.552 119 3, 491 415. 5 385.3 4 679 6.317 15 289 214.6 15 150 0.534 15 653 6 D 13 75.5 15 199 15.453 111. I 11 O 62.3 2 160 23 2, 141 314.2 2 160 1 689. 7 2 . 4 690 51 18.633 3 880 F. 552 61 12.106 731 5 15 150 9.534 15.099 905. 9 4 0 13 2 584 15.2 7 640 30. 2 15 200 15. 109 30.3 509 D. 497 0. 656 251.9 2 236. 2 4 710 3.973 18, 792 D 25 115 2 0 12 1 234 0.934 1. 119 111.0 415.5 L\_ 2 250 3.551 115 3, 491 3 0 16 4 024 6. 117 315. 3 • , 15 280 23. 115 284.6 D 13 15 150 0.351 15. 459 75. S 15 154 15.099 271.1 61. 1 U 2. 147 2 164 2 110 314.2 5138.2

B-LINE

T 5  T 1 D 22 6 839 3.042 61 20.559 1  2	278.5 528.5 542.8 100.2 27.2 36.2 10.3 280.2 490.7 184.9 297.1 233.0 260.3 75.5 256.7 56.5 221.3 680.5	L
T 1 D 22 6 839 3.042 61 20.559 1  2	\$2P. 5 \$47. 8 \$00. 2 27. 8 36. 2 36. 3 200. 2 498. 7 1P4. 9 297. 1 233. 0 260. 3 75. 5 256. 7 \$6. 5	
T 1 D 22 6 839 3,042 61 20,555 1  2	\$2P. 5 \$47. 8 \$00. 2 27. 8 36. 2 36. 3 200. 2 498. 7 1P4. 9 297. 1 233. 0 260. 3 75. 5 256. 7 \$6. 5	
1   1   1   1   1   1   1   1   1   1	\$47. 8 \$00. 2 22. 8 30. 2 30. 2 30. 2 490. 2 490. 7 1P4. 9 297. 1 233. 0 260. 3 75. 5 256. 7 \$6. 5 228. 3	
4 9 13 15 159 4.594 53 15.093  5	100. 1 27. 2 30. 2 10. 3 280. 2 498. 7 184. 9 197. 1 238. 0 260. 3 75. 5 256. 7 56. 5	
\$ " 11 B19 " 2 11.121  \$ " 15 200 " 2 15.119  7 " 508 " 51 0.437  8 " 610 " 325 0.616  F 1 D 23 4 248 3.642 119 12.594 1  2 D 13 1 730 0.934 64 3.714  3 D 16 2 158 1.552 119 3.317  4 " 3 576 " 61 5.521  5 " 15 280 " 14 23.715  6 D 13 15 150 0.934 5 15.093  7 " 15 158 " 17 15.093  8 " 1 360 " 14 23.715  1 " 1 5 158 " 17 15.093  1 " 1 360 " 29 1.941  5 " 1 380 " 145 1.968  7 " 3 390 " 58 10.088  7 " 3 390 " 58 10.088  9 D 16 6 650 1.552 61 10.018  4 D 13 15 159 0.936 51 15.055  5 " 7 180 " 7 7.733	27. 2 36. 2 36. 3 280. 2 498. 7 184. 9 297. 1 233. 0 260. 3 75. 5 256. 7 51. 5	г Г Ц Ц
\$ " 15 200 " 2 15.119   7 " 508 " 51 0.437   8 " 510 0.437   8 " 51 0.437   8 " 510 0.437   8 " 510 0.437   9 125 0.616   9 127   9 125 0.616   9 127   9 125 0.616   9 127   9 125 0.616   9 127   9 125 0.616   9	30. 2 10. 3 20. 2 490. 7 184. 9 197. 1 233. 0 260. 3 75. 5 236. 7 56. 5 221. 3	г Г Ц Ц
7	16. 3 280. 2 498. 7 184. 9 197. 1 238. 0 260. 3 75. 5 236. 7 56. 5	г Г Ц Ц
## 620  ## 325	494. 7 184. 9 197. 1 232. 0 260. 3 75. 5 256. 7 56. 5 121. 3	
1   0   12   13   15   15   15   15   15   15   15	184. 9 397. 1 232. 0 260. 3 75. 5 256. 7 \$6. 5	
3   D 16   2   158   1.532   119   3.317	397. 1 233. 0 260. 3 75. 5 256. 7 56. 5	
1 6	332. 0 260. 3 15. 5 256. 7 \$6. 5	
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	260. 3 15. 5 256. 7 56. 5 221. 3	  
1 6 D 13 15 150 0.934 5 15.053 7 15 15.053 7 17 15.053 7 17 15.053 1 1 15.053 7 17 15.053 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15. \$ 256. T \$6. 5 111. 3	
T	\$6, 5 111, 1	
1 6 1 1 0 22 6 560 3.042 63 19.956 1 2 1 3 790 1 53 19.986 2 1 3 790 1 53 19.988 2 1 0 16 6 650 1.552 61 10.010 4 0 13 15 150 0.596 51 15.055 5 1 7 7 70 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	111.1	
1 6 1 1 D 22 6 560 3.092 61 19.956 1 2 r 3 290 r 52 10.988 3 D 16 6 650 4.552 61 10.018 4 D 13 15 150 0.596 51 15.055 5 r 7 760 r 2 7.733		ľ
T 6 T 1 D 22 6 560 3.042 51 19.356 1 2 " 3 290 " 58 10.008 3 D 16 6 6 60 1.552 61 10.010 4 D 13 15 150 0.596 51 15.055 5 " T 760 " Z 7.733	6881.5	
T 1 D 22 6 560 2.042 51 19.956 1 2 " 3 290 " 52 10.008 3 D 16 6 650 1.552 51 10.018 4 D 13 15 190 0.996 51 15.059 5 " T 780 " Z 7.733		
T 1 D 22 6 560 2.042 51 19.956 1 2 " 3 290 " 52 10.008 3 D 16 6 650 1.552 51 10.018 4 D 13 15 190 0.996 51 15.059 5 " T 780 " Z 7.733		
2	ž17. ž	l i
4 D 13 15 190 0.934 51 15.059 5 - 7 780 - 2 7.733	510.5	
\$ . 1 (10 . 1 1.13)	610, 5	
	778. ♦	
{	15.5	
	35. 3	
7 7 500 7 61 0.497 8 7 618 7 295 0.636	178. 3	-
\	505. 9	7
2 0 13 1 710 4.934 61 3.700	103.7	~
3 0 16 2 159 1,552 119 3.337	357.1	L
4 # 3 514 # 61 5.541	338.0	
S 4 15 280 4 11 23.715 6 3 13 15 193 0.594 5 15.095	268. 9 75. 5	-
6 D 13 15 190 0.994 5 15.093 7 2 15 190 2 17 15.699	156.7	
\$ P 1 568 P 25 1.568	\$6.5	Ü
9 * 1 988 * 116 1.968	128. 1	0
	6655. 1	
17 	150.5	
2 - 3 250 - 51 14.001	\$19.5	i
3 D 16 6 090 1.552 61 3.452	\$76. 6	
4 D 12 15 150 0.954 47 15.039	109. 7	
5 # 8 736 # 6 8.678	14.1	
6 9 15 208 9 2 15.189	30. 1	
7 - 500 - 61 0.497 1 - 510 - 295 0.577	19. 1	····
L	513.2	+
2 D 13 1 630 6.994 61 1.670	181.9	<del></del>
3 D 16 2 150 1.552 119 3.337	397, 1	
4 / 3 570 / 61 5.561	338.0	1
\$ 15 280 4 11 23,715	260.9	<del></del>
6 D 13 15 190 0.39e 5 15.099 7 15 190 7 17 15.099	75. 5 256. 7	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56.5	+
5 - 1 980 - 116 1.958	228. 2	<del></del>
	6518. <b>3</b>	
· · · · · · · · · · · · · · · · · · ·		
D 22	9995. 6 4818. 0	<del></del> -
D 13	\$244.5	
TOTAL VEIGHT	(9348.)	

re !	d (88)	LESGIA	ROLINAL	500	E DEICHT	TEIGHT	REUARI
30. 1		(12)	161481				
11	D 22	6 910	3, 042	- 61	21, 111	1 287. 1	<u>      l                              </u>
2		3 190		58	10,008	\$ £0. S	ι
	D 16	6 830	1.552	61	18.606	€\$1. €	
	D 13	15 130	0, 551	<b>\$1</b>	15, 055	\$60. 1	
- ;		1 110			\$. 081	32. 3	
	-,-	15 200		1	15, 103	39. 2	
<del>;</del>	-	500		\$1	9, 437	39. 3	•
;	•	614		125	0. 616	200. 2	
E 1	D 51	1 133	1.612	113	12.716	1 513. 2	-7
	D 13	1 731	1.934	61	1. 724	104. 9	Ĵ
-;	D 15	2 150	1.552	119	3. 337	397. 1	
	,	3 570		<b>\$1</b>	5, 541	338.0	
- <del>'</del> '		15 280		11	23, 715	260.9	
	D 13	15 130	9. 594	5	15.053	75. 5	
	,,,,	IS 190	·····	17	15, 899	156. 1	
-		1 360		19	1.941	56. 5	- 0
•	-	1 389		116	1.561	228, 3	G
				7.4		6133, I	L
					· ·		
1 i	D 11	6 600	3.043	11	20. 077	) 224. T	1
• ;		1 194	<del></del> _	58	18.008	580.5	1
	D 11	6 490	1.551	11	10.072	614. 4	1
	D 13	15 198	8. 954	51	15.039	170.0	
- 1	,	9 580	<del></del>		5.511	19. 0	
\$	-	15 200	<del>-</del>	-	15, 169	30, 2	
		560	<del></del> _	-	0. 451	30. 3	4
				255	0.551	175. 8	
		600	7	113	12, 624	1 592.1	
<u>ا ع</u>	D 11	4 150	3. 441	61	1.700	193.1	<del></del> -
1	D 13	1 710	0. 551 3. 551	115	3. 331	337. 1	<u> </u>
3	0 16	2 150			5. 541	338.0	
- 1		3 570		61 	23, 715	160.3	
5	*	15 230	- ·	-   5	15.093	15. 5	
. · ·	0 13	15 199	0. 594		15. 999	156. 7	
- 7		15 190		17	13. 933	56.5	Ü
		1 950		1	1. 968	118.3	Ö
5		1 959		1116	1.300	6643, 9	L <u> </u>
						******	
17			2.4/2	61	20.959	1 157. 9	T-1
1 1	D 11	6 210	3, 642	53	10.00B	520.5	
2	<u> </u>	3 250			10.538	\$11.3	<b>-</b>
3	D 16	\$ 140	1.552		15.095	219. 9	
	D 13						
4		15 190	0.594	13			
5	•	\$ 094		1	11. 121	19.1	
5	•	S 094 ES 204	•	1	11, 121 15, 103	19. 1 39. 3	
5 6 7	•	\$ 094 15 200 504	;	1 1	11, 121 15, 103 0, 497	19. 1 30. 2 30. 3	
5 6 7 8	•	\$ 094 E\$ 200 504 590	*	2 2 61 235	11, 121 15, 103 0, 437 0, 616	19. 1 30. 3 30. 3 172. 9	
5 6 1 8 E I		\$ 090 E\$ 200 \$04 \$90 4 160	, , ,	1 1 61 295	11, 121 15, 103 0, 497 0, 616 12, 594	10.1 30.3 30.3 (72.9 1 \$13.2	
5 6 7 8 F 1	D 22	\$ 099 E\$ 200 504 \$30 4 160	3. 043 4. 954	1 1 61 295 119	11, 121 15, 103 0, 497 0, 516 12, 594 1, 720	10.1 30.3 20.3 (72.9 1 \$13.2 10F.9	
5 6 7 8 E 1 1	D 22 D 13 D 16	\$ 094 E\$ 200 \$04 \$30 4 EE E 88 2 E80	3. 042 4. 954 1. 552	2 2 61 295 119 61 113	11, 121 15, 103 0, 497 0, 516 12, 594 1, 720 3, 337	10.1 30.2 20.3 172.9 1 \$13.2 10F.9 397.1	
5 6 7 8 F 1 1 3	D 22 D 13	\$ 090 E\$ 200 \$04 \$90 4 110 1 680 2 150 3 570	3.042 4.958 1.552	2 2 61 295 119 61	11. 121 15. 103 0. 497 0. 616 12. 694 1. 720 3. 337 5. 541	19.1 30.2 30.3 472.9 1 \$13.2 10f.9 397.1	
5 6 7 8 8 5 1 2 3 4	D 22 D 13	\$ 094 ES 200 504 539 4 100 1 688 2 150 3 570 15 280	3.042 4.994 1.552	2 2 61 295 119 61 119	11, 121 15, 103 0, 437 0, 516 12, 594 1, 726 3, 337 5, 541 23, 715	10.1 30.7 30.3 172.9 1 \$13.2 101.9 397.1 398.0 280.9	
5 6 7 8 8 F 1 2 3 4 5	D 22 D 13 D 16	\$ 094 ES 200 504 599 4 100 1 688 2 150 3 570 15 280 15 150	3. 042 4. 994 1. 552 	2 2 61 295 119 61 119 61	11, 121 15, 103 0, 437 0, 616 12, 694 1, 720 3, 337 5, 541 23, 715 15, 099	10.1 30.7 30.3 172.9 1 \$13.2 101.9 397.1 398.0 280.9 75.\$	
5 6 7 8 8 1 1 2 3 4 5 6	D 12 D 13 D 16	\$ 094 \$ 200 \$ 504 \$ 590 4 110 1 688 2 150 3 570 15 780 15 150 15 190	3.047 4.994 1.552 	2 2 61 295 119 61 119 61 11	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 237 5, 541 23, 715 15, 099	18.1 30.2 20.3 172.9 1 \$13.2 101.9 397.1 338.0 280.9 75.5	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 237 5, 541 23, 715 15, 099 1, 948	18.1 30.2 30.3 172.9 1 \$13.2 101.9 397.1 338.0 280.9 75.5 256.7	
5 6 7 8 8 1 1 2 3 4 5 6	D 12 D 13 D 16	\$ 094 \$ 200 \$ 504 \$ 590 4 110 1 688 2 150 3 570 15 780 15 150 15 190	3.047 4.994 1.552 	2 2 61 295 119 61 119 61 11	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 237 5, 541 23, 715 15, 099	18.1 30.2 20.3 172.9 1 \$13.2 101.9 397.1 238.0 250.9 75.5 256.7	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 237 5, 541 23, 715 15, 099 1, 948	18.1 30.2 30.3 172.9 1 \$13.2 101.9 397.1 338.0 280.9 75.5 256.7	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 337 5, 541 23, 715 15, 099 1, 948 1, 953	18.1 30.2 20.3 172.9 1 \$13.2 101.9 397.1 238.0 250.9 75.5 256.7 56.5 228.3	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 337 5, 541 23, 715 15, 099 1, 948 1, 953	18.1 30.2 20.3 (72.9 1 \$13.2 101.9 397.1 238.0 250.9 75.5 256.7 56.5 228.3	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 337 5, 541 23, 715 15, 099 1, 948 1, 953 0, 12 0, 14	18.1 30.2 20.3 (72.9 1 \$13.2 101.9 397.1 398.0 260.9 75.5 256.7 56.5 228.3 6531.1	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 5	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 337 5, 541 23, 715 15, 099 1, 948 1, 953	18.1 30.2 20.3 (72.9 1 \$13.2 101.9 397.1 238.0 250.9 75.5 256.7 56.5 228.3	
5 6 7 8 8 1 2 3 4 5 6	D 22 D 13 D 16	\$ 094 15 200 504 590 4 110 1 688 1 150 3 570 15 280 15 150 15 190 1 968	3. 042 4. 994 1. 552	2 2 61 295 119 61 115 61 11 57 29 116	11, 121 15, 103 0, 497 0, 616 12, 594 1, 720 3, 337 5, 541 23, 715 15, 099 1, 948 1, 953 0, 12 0, 14	18.1 30.2 20.3 (72.9 1 \$13.2 101.9 397.1 398.0 260.9 75.5 256.7 56.5 228.3 6531.1	

IAPAN INTERNATIONAL COOPERATION AGENCY

(11CA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

TITLE: R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (15)

PACIFIC CONSULTANTS INTERNATIONAL

TITLE: DATE

DATE

DATE

A-LINE REIN O (RE) LENGTH NOMINAL NIMB E BEIGHT TEIGHT REMARKS 1 1 D 22 5 624 3.042 2 " 3 090 " 9. 400 \$15. 2 521. 7 3 D 16 5 510 1.552 B. 551 679. 5 15.039 45 0. 994 4 9 13 15 190 8 259 8. 201 16. 4 30. ž 15. EQ3 15 200 500 550 30. 3 0. 457 0.547 8 / F 1 D 15 973. 4 3 660 2.235 \$5. \$ 0. 994 1,402 3 D 16 4 D 13 5 J 223. 2 1 750 1.551 \_\_\_\_\_\_ 5.013 3 230 0. 994 151. B ----15 190 15. 099 15 190 15 190 15 15.099 226.5 45. 0 Û 1 560 U 1.561 191.1 9 68. E T 1 D 22 S 220 3.042 \$45. 2 2 a 3 0 16 3 050 7. 931 183.8 1.552 5 110 619.1 4 D 13 15 190 0.994 15. 099 7. 197 28. B 7 240 30. 2 15 200 \$00 123. 1 236 550 119 61 3 690 1. 235 381. 4 14. 3 1 390 D. 991 1 750 1.552 223.2 305.8 5.013 3 230 0.954 61 15.099 151.0 15 190 0 15,099 15 190 276.5 15.099 15 190 1 560 23 1.551 45.0 181.1 1.561 1 578 5193. 8 3191. 5 D 13 1954. 8 D 18 2263.5 D 13 3237. 2 TOTAL DEIGHT 10557.4

<u>B - 1</u>	LIN	<u>LE</u>					
REIN NO.	ð (11)	LENGTH (II)	NONINAL	KUKB	C TEICHT	SEBGRI	REMARKS
100	D 22	5 650	3.042	61	17.211	1 650.2	[
1		3 630	•	58	5. 48B	\$45. 2	1
1-3	D 16	5 560	1.551	- 61	8. 625	526.4	j
	D 13	15 150	0.314	45	15. 039	613.5	
1		\$ 190	4.375	1 1	\$.153	10.3	
\ <u>\$</u>		15 200		1	15, 143	30. 2	
	*		<del></del>	61	0, 437	30.3	
1	-	500 560		266	0.557	148. 2	
1			2. 235	119	8.110	373.4	<del></del>
F 1	D 13	3 660		61	1, 411	86. 1	<u></u>
	D 13	1 420	0.994	ļ	2, 716	323. 2	i.
1	B 18	1 750	1. \$52	119	5.413	305. 1	
	D 13	3 230	0.994	51		151.0	
\$		15 150		16	15.095		<u> </u>
<u>_</u>	'	15 198	•	4	15.093	60. 4	
1		15 190		15	15. 899	226.5	
<u> </u>		1 560		19	1.551	45.0	0
,		1 570	<u> </u>	116	1.561	111.1	0
						5172. 9	
T 3	,			<del></del> .	10 001	976, 1	Ι τ
1 1	0 21	5 249	3, 042	11	16.001	545. 2	
1 2	<u> </u>	3 090	-	58	9, 400		1-
3	0 16	5 168	1,552	61	8, 008	(81.5	<u> </u>
1 4	3 13	15 190	0.394	- (1	15.899	613.1	
5		3 010			1.986	35. 9	
		15 200		1	15. 105	39. 1	
1	•	500		[1	8. 137	30.3	
1 8	-	559		236	0.547	129.1	<del></del>
1 1	D 15	3 680	2. 235	119	\$, 225	974. 8	
2	D 13	1 390	6. 594	61	1.382	14.3	<u> </u>
3	D 16	1 750	1.552	313	2, 716	323.2	
[ 4	B 13	3 230	0. 594	61	5, 613	305. 8	
5		15 199		10	15.033	151.8	<del></del> -
		15 190	•	1	15.033	60. 4	·}
1	•	15 190		15	15.039	226. 5	+
8	1	1 560	•	29	1.551	45. 8	<u> </u>
9	· .	1 570		116	1,561	181.1	U
						\$21 <b>0</b> . S	
L	<u>.</u>				D 11	3116.1	
L				<u> </u>	9 19	1952. 2	
					11 6	2172. 5	<del></del> -
ļ					9 13	3241. 5	
.					STAL BEIGHT	10583. 4	
-		··;			4124 -51401	18483. 4	
<del> </del> -		<del> · ·</del>				<del></del>	
						<del></del>	<del>-</del>
L						<del></del>	
L							

IAPAN INTERNATIONAL COOPERATION AGENCY

(IICA)

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

IICA SILDY IEAN
PACIFIC CONSULTANTS INTERNATIONAL
FIREYANA CONSULTANTS INTERNATIONAL
DATE

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

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

TITLE: R/A-5, AL MULADDAH RE-BAR ARRANGEMENT (16)

DATE

DATE

DESS O (ma) LEDGIH SORISAL MAR E JEICHI SEIGHI REHALIS 4 549 2 590

615. 6 2 r 3 D 13 269. 8 4, 413 4 450 15 190 36 15.059 543. 6 40.6 10. 159 10 220 15.109 15 200 30. 3 500 0.497 9. 507 104.9 51 P 107 867. 0 F 1 D 19 7. 286 3 260 7. 235 3 120 0. 394 1 D 13 10.3 L... 1. 095 1 350 1 552 <u>(11</u>) 2 930 0.954 2. 112 177. 6 4 D 13 151.0 15. 499 45. 3 15 190 195.3 15. 033 13 15 130 1 160 19 1.153 33.4

131.5

1, 162

1 1 D 15 2 \* 4 110 2 590 \$60.3 335. 1 5. 789 3. 986 243. L 4 010 0.594 \$13.4 15 150 15.093 7 900 30. 2 15 200 15.189 500 30. 3 9.487 16.1 490 3 260 1 090 2 9 13 1.613 66.1 0.994 243.3 L... D 16 1 350 3.095 1 D 13 2 938 177.6 2.912 8. 25 4 155.0 15 190 15.059 15 190 15.059 45. 3 15.459 15 190 156.3 D 1 160 33.4 1 178 1.163 134. 9 U

D 19 3590. 3 D 16 458.6 D 13 3549.3 TOTAL TEECHT 7638. 1

		- BY 1 - 67 -		·		
Ø (22)	LENGTH	PETCHT	NUMB	E retent	REIGHT	SERVIES
اــــــا	(18)	1,1,001	ــــــــــــــــــــــــــــــــــــــ			
	4 598	2 115	61	10 259	625. 8	Į
						i
					<b>-</b>	1
-		<u>-</u>				
1						
·						
			<b>+</b>			
D 16	1 350		1		<del></del>	<u> </u>
D 13	2 930		<del> </del>	}		
,	15 199	*	10	<del>}</del>		
4	15 190		3	1		
*	15 150		13	15.099		
	1 160	•	19	1.151	33. 4	<u>u</u>
	1 170		116	1,163	134. 9	U
					351F. Q	
D 13	4 153	2. 235	fi.	9. 298	557. 1	
,	1 598	,	58	5, 789	335. B	ι
0 13	4 070	0. 991	61	4,046	245. 8	J
,	<del></del>	,	34	15.093	\$13.4	
,	5 450	,	1	\$.417	21. 7	
	15 200	,	1	15.103	39. 2	
- ,	<b></b>	,	61	0.497	30. 3	4
,	<del></del>	,	287	0.407	109. 8	
7 18	ļ	2 235	+	7, 331	872.4	
+				1,083	66.1	_
	Į.———	<del></del>	<del></del>	2.055	249.3	l
<del></del>				<b></b>		
-	·		<del></del>	<del></del>	151.0	
ļ	<del></del>	<b></b>		<del></del>	<del> </del> -	
<b></b>					<del></del>	
+	<del> </del>	ļ		<del></del>	<del> </del>	<del>0</del>
<del></del>		<del> </del> -		1	·	Ü
_ <u></u> _	1 110	J	J	1 143	<del></del>	<u> </u>
<del>_</del>				B 14	1684 0	
<u>·</u>						
				D 13	3595.0	
	·		<u> </u>	TEDIEV JAIO	1697, 6	
			T	DIAL PETURI	1697.6	
				DIAL PETUAL	1697, 6	
	D 15 / P 13 / P 16 / P 13 / P 16 / P 13 / P 16 / P 17 / P 17 / P 18 / P	# 2 590  # 13 4 490  # 15 190  # 2 114  # 15 200  # 500  # 510  # 15 3 260  # 10 13 1 120  # 15 190	# 2 5 5 0  #   # 13	# 2 550 # 58  # 13 4 490 0.534 61  # 15 190 # 31  # 7 210 # 2  # 15 200 # 2  # 500 # 61  # 510 # 207  # 15 3 260 1.235 112  # 15 190 # 10  # 15 190 # 10  # 15 190 # 10  # 15 190 # 10  # 15 190 # 10  # 15 190 # 10  # 15 190 # 10  # 15 190 # 29  # 15 190 # 29  # 15 190 # 29  # 15 190 # 29  # 15 190 # 29  # 15 190 # 34  # 15 190 # 34  # 15 190 # 34  # 15 190 # 29  # 15 190 # 20  # 15 190 # 20  # 15 190 # 20  # 15 190 # 20  # 15 190 # 20  # 15 190 # 20  # 15 190 # 20  # 15 190 # 30  #	# 2 590 # 58 5.783  # 13 4 490 0.534 61 4.443  # 15 190 # 38 15.093  # 7 216 # 2 1 7.167  # 15 200 # 2 15.189  # 500 # 61 D.497  # 510 # 207 0.507  # 19 3 260 2.335 112 7.286  # 10 13 1 120 0.594 61 1.113  # 15 190 # 10 15.099  # 15 190 # 20 1.552 119 2.035  # 15 190 # 10 15.099  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.552  # 15 190 # 20 1.553  # 2 590 # 58 5.789  # 15 150 # 21 1.613  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.099  # 15 190 # 21 15.095  # 15 190 # 21 15.505	# 2 5 5 0

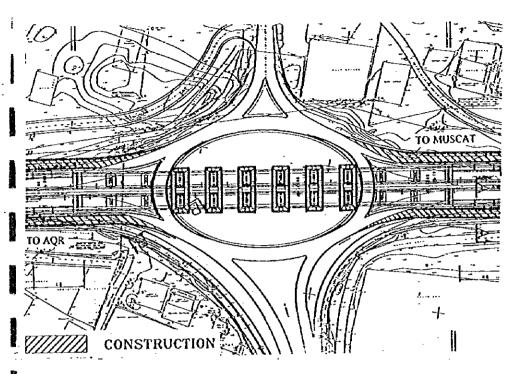
MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS CLIENT : JAPAN INTERNATIONAL COOPERATION AGENCY D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY (FICA) PROJECT : JICA STUDY TEAN
PACIFIC CONSULTANTS INTERNATIONAL R/A-5, AL WULADDAH RE-BAR ARRANGEMENT (17) TITLE : DEG NO.W-41 FERCYANA CONSELTANTS INTERNATIONAL

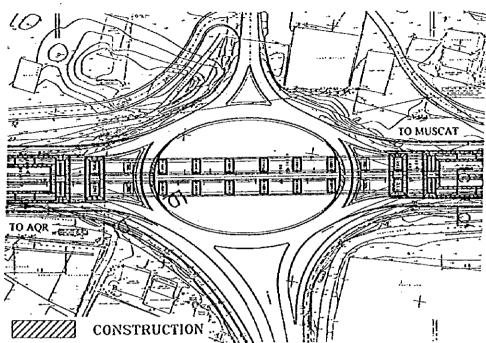
## TEMPORARY WORKS

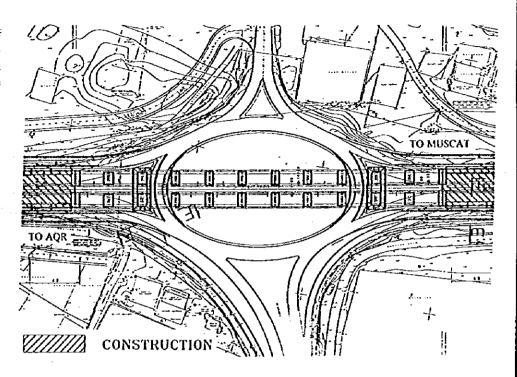
## FIRST CONSTRUCTION STAGE

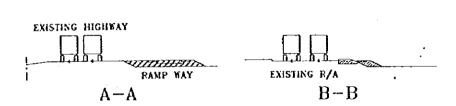
## SECOND CONSTRUCTION STAGE

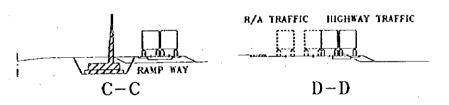
## THIRD CONSTRUCTION STAGE

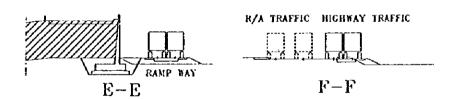












The traffic on the existing highway

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

FUKUYAMA CONSULTANTS INTERNATIONAL

,			
	*		
		·	