No. 51

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT
THE REPUBLIC OF INDONESIA

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

FINAL REPORT

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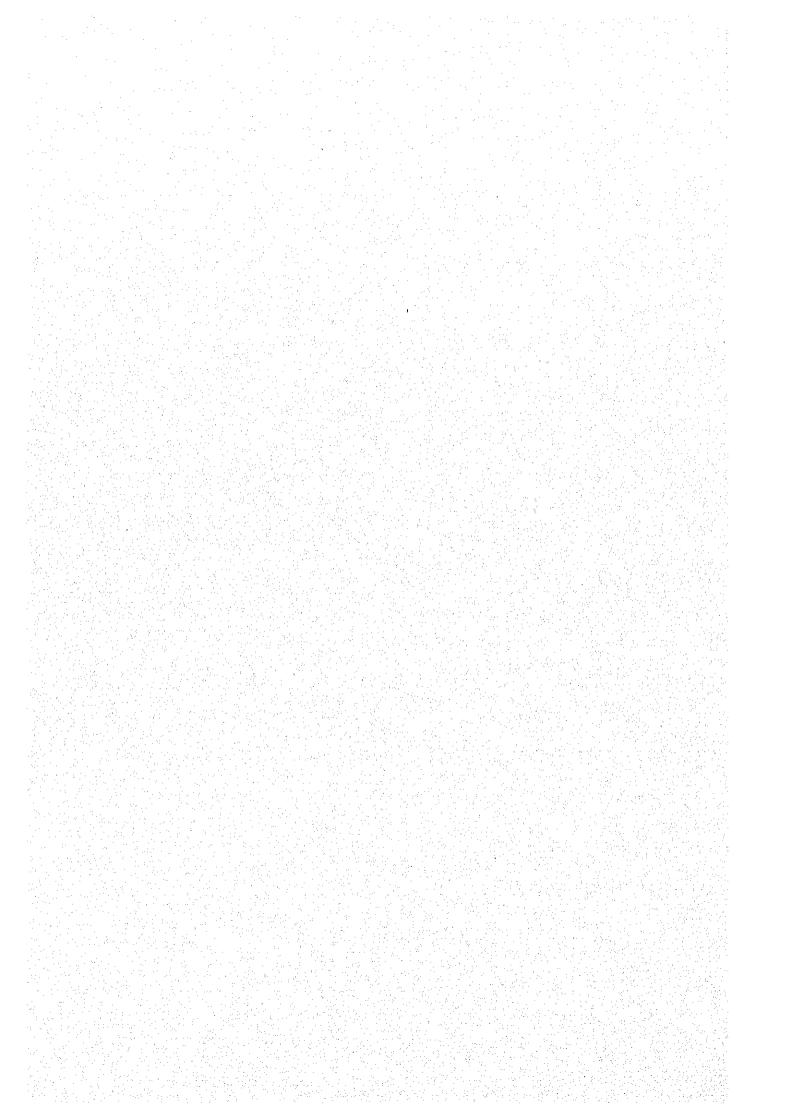


CTI ENGINEERING INTERNATIONAL CO., LTD.
IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL
AND
PASCO INTERNATIONAL INC.

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THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

FINAL REPORT

COMPONENT A: WEST FLOODWAY / GARANG RIVER IMPROVEMENT

VOLUME III DESIGN NOTES

AUGUST 2000

CTI ENGINEERING INTERNATIONAL CO., LTD.
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CONSTITUTION OF THE REPORT

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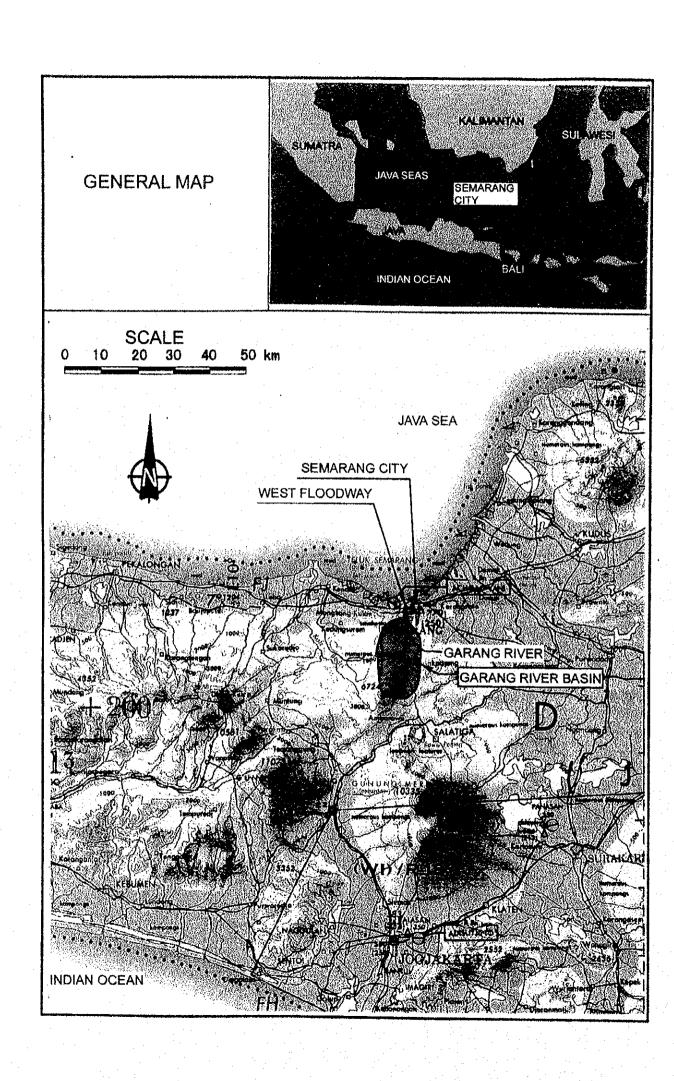
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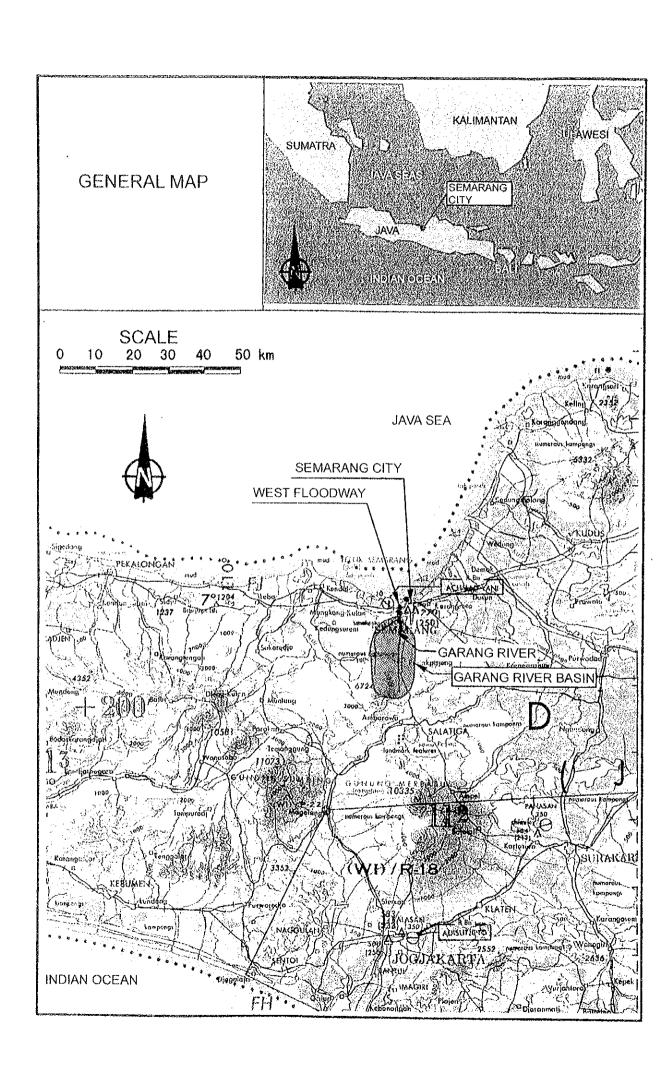
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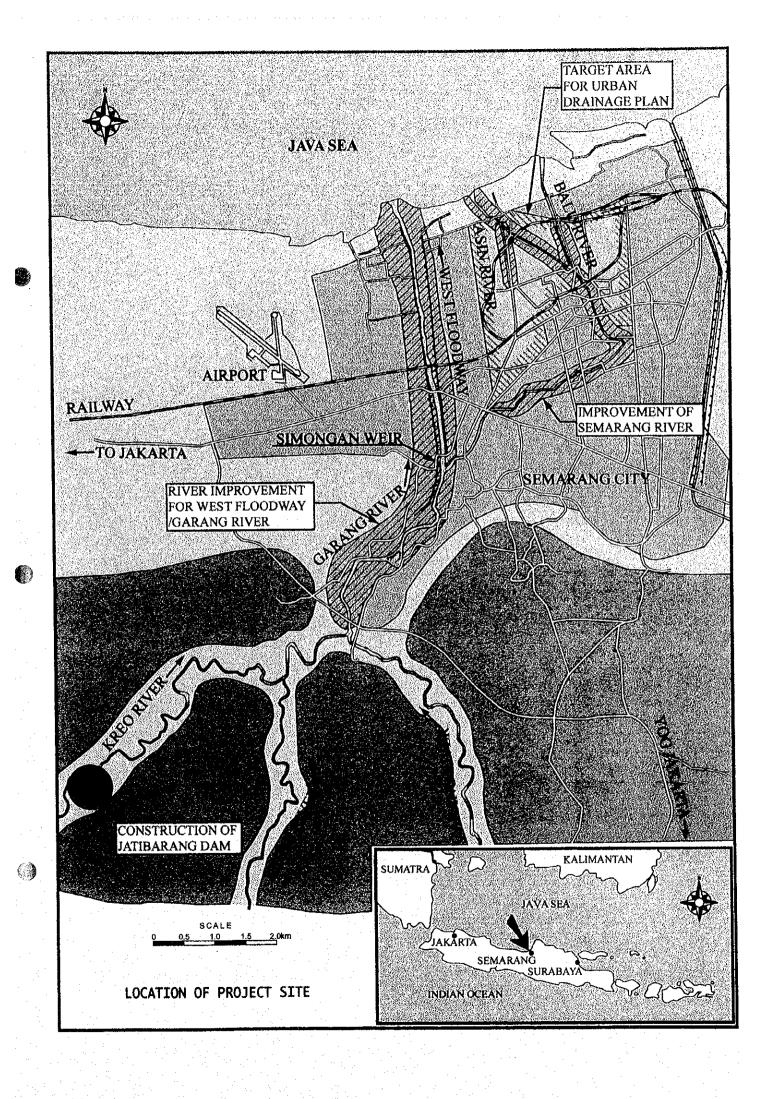
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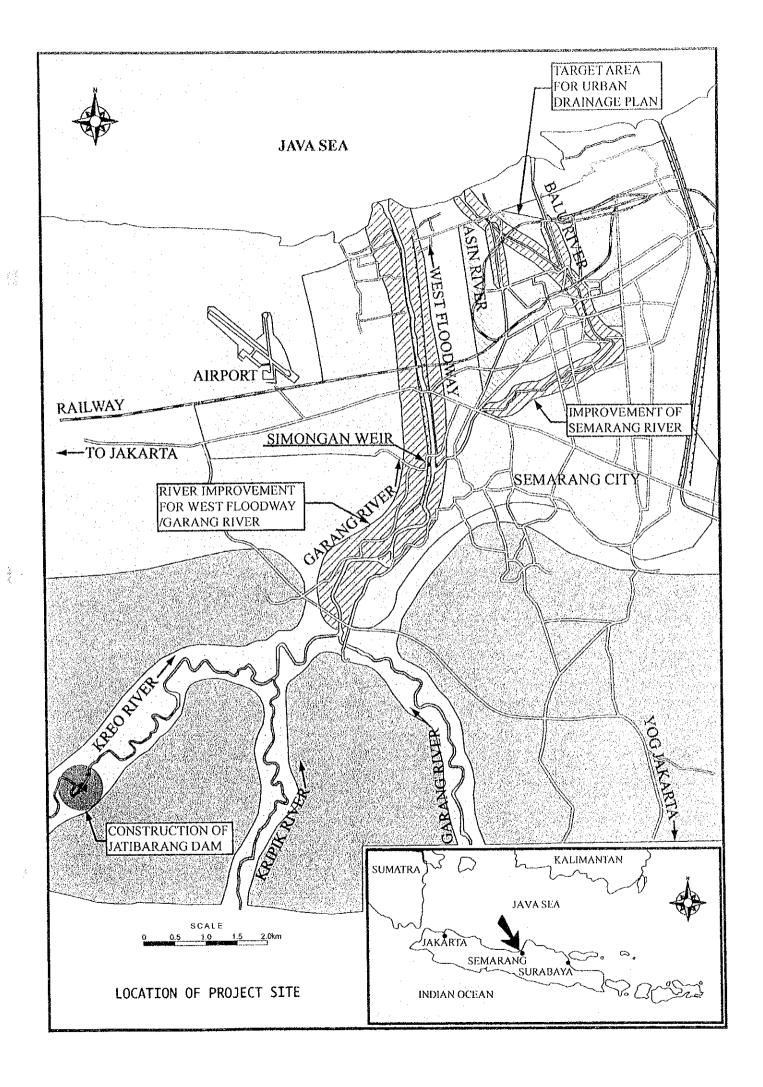
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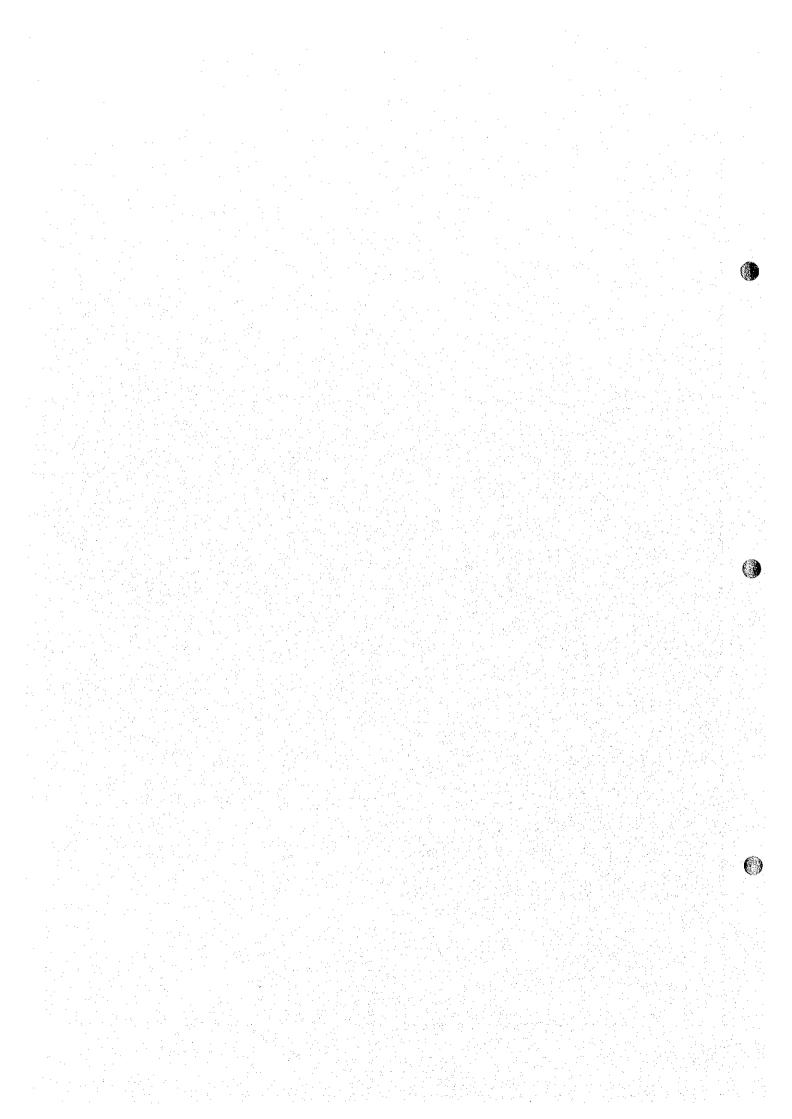
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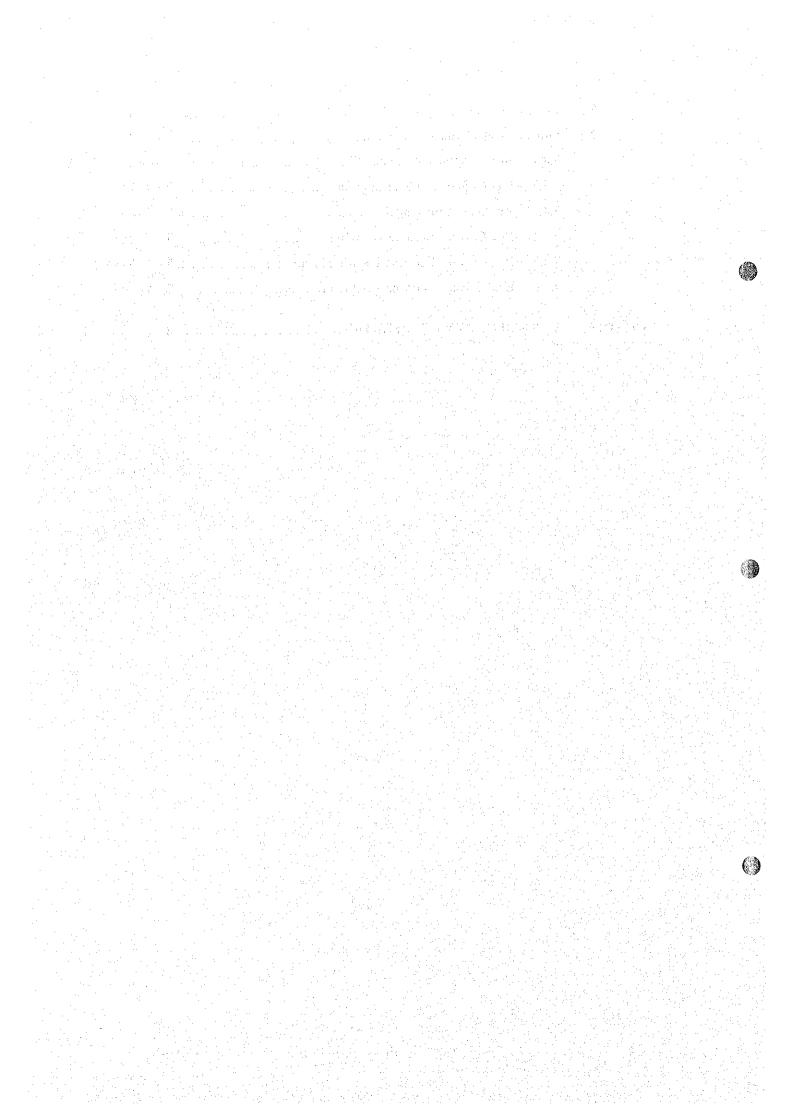
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CHAPTER 1 INTRODUCTION

1.1 River Improvement and Reconstruction of Simongan Weir

(1) Flood Control Scheme

The flood control for Garang River/West Floodway is carried out by two schemes, namely, the improvement of West Floodway/Garang River for the stretch of 9.78 km from the river mouth to the confluence with Kreo River including the reconstruction of Simongan Weir, and the construction of Jatibarang Multipurpose Dam on Kreo River located 13 km upstream from the confluence.

(2) River Stretch to be Improved

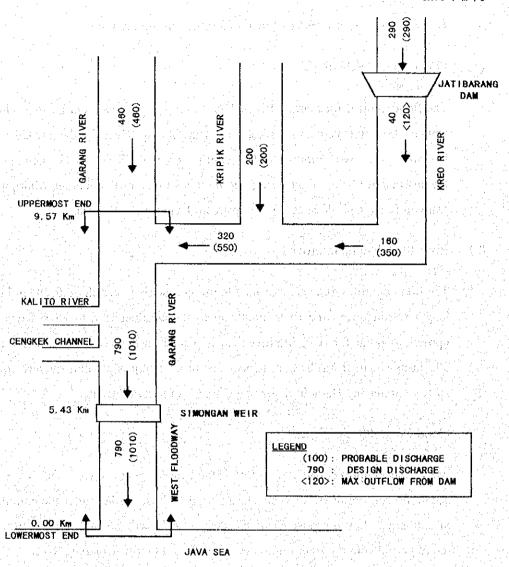
The flood control works are executed to protect the river stretch of 9.78 km in total length starting from the river mouth up to the confluence with Kreo River. The uppermost point for river improvement is placed on the newly constructed bridge 300 m upstream from the confluence. The project area is administratively covered by Kec. Semarang Barat in Semarang City, Central Java Province.

(3) Flood Control Scale

After the improvement of West Floodway/Garang River, the river can accommodate floods of 25-year return period or less. Further, after the completion of Jatibarang Multipurpose Dam the design scale will be increased to 100-year return period with the river improvement of West Floodway/Garang River.

(4) Design Flood Discharge

In accordance with the proposed flood control scale as well as updated probable flood discharges in Garang river system, the design flood discharge for the river improvement has been determined as graphically shown below.



The standard flood discharge of 1,010 m³/s in the downstream from the confluence is reduced to 790 m³/s by flood control effect of Jatibarang Multipurpose Dam. The discharge of 790 m³/s corresponds to a 25-year probable flood discharge before Jatibarang Dam is constructed.

Return Period	Standard Flood Discharge at Simongan Weir	Design Flood Discharge at Simongan Weir *1
100 year	1,010 m ³ /s	790 m³/s
50 year	900 m ³ /s	700 m ³ /s
25 year	790 m ³ /s	620 m ³ /s

^{*1 :} Flood control by Jatibarang Dam is considered.

The design discharge of 790 m³/s is applied to the river improvement of river stretches from the river mouth up to the confluence with Kreo River.

(5) Project Works

River improvement of West Floodway/Garang River is projected for the following purposes.

- (a) To increase the flow capacity of river channel and to prevent flood overflow from river banks/dikes particularly in West Floodway.
- (b) To make the flood water level below the hinterland ground level in Garang River,
- (c) To eliminate the dam-up effect of flowing water owing to the existing fixed type Simongan Weir.

To attain these purposes, the following major works have been proposed.

Project Works	River Stretch/Location	
1. West Floodway Improvement	L = 5,530 m	
- Dredging of downstream channel	L = 1,390 m	
- Excavation of existing floodplain	L = 4,260 m	
- Raising/Reinforcing of Existing Floodwall	L = 2,530 m	
- Embankment for dike in river mouth area	L = 720 m	
2. Garang River Improvement	L = 4,050 m	
- Riverbed Excavation	L = 1,050 m	
- Excavation of existing floodplain	L = 2,560 m	
3. Reconstruction of Simongan Weir	L = 200 m	
- Gated Weir	5.43 km from river mouth	
- Intake Structure		

For stabilizing the river channel excavated, river structures such as ground sill, revetment and groin are provided properly as well. As supplementary works, the existing drainage and intake structures, and bridges which may be affected by the river improvement, will be re-constructed or reinforced to maintain their existing functions. Besides, in view of maintenance and use of river channel and structures, and preservation of river environment, waterfront and environmental related facilities are provided as required.

1.2 Scope of Design Works

The detailed design is done for the following major work items.

(1) River Improvement Works

West Floodway Improvement

3.3	XX7 - 4 Tr
 	Work Item
1	Widening of Low Water Channel
2	Earth Dike
3	Raising of Existing Floodwall
4	Revetment
1994	- Wet stone masonry on riverbank slope
	- PC sheet pile wall type revetment
1900	- Leaning wall (Concrete type)
	- Leaning wall (Wet stone masonry type)
	- Earth retaining wall
5	Raising of Railway Bridge
6	Protection Works for Bridge Pier
7	Drainage Outlet with Gate
	- Steel Flap Gate, 0.7 m x 1.1 m
1 4 4	- Steel Flap Gate, 0.8 m x 1.4 m
A START	- Steel Flap Gate, 1.0 m x 1.0 m
<u> </u>	- Steel Flap Gate, 0.9 m x 1.1 m
	- Wooden Stop Log
8	River Amenity and Maintenance Facilities
	- Approach Steps
	- Mooring Facilities
	- Walk Way, Gravel pavement t=150 b=3.0 m
	- Tree Planting
	3 4 5 6 7

Garang River Improvement

	Work Item		
ı	Excavation of Low Water Channel		
2	Earth Dike		
3	Floodwall (Gravity Type)		
4	Protection Works for Riverbank and Riverbed		
	- Wet stone masonry on riverbank slope		
	- PC sheet pile wall type revetment		
	- Leaning wall (Concrete type)		
	- Leaning wall (Wet stone masonry type)		
1.71	- Earth retaining wall		
Same and	- Groin		
5	Ground Sill		
<u>18 18 98 8</u>	- Ground Sill with Head (WF124)		
1000	- Ground Sill (WF173)		
6	Protection Works for Bridge Pier		
7.7	Drainage Sluiceway and Channel		
8 (4)	Drainage Outlet with Gate		
	- Steel Flap Gate, 0.7 m x 1.1 m		
	- Steel Flap Gate, 0.8 m x 1.4 m		
	- Steel Flap Gate, 1.0 m x 1.0 m		
	- Steel Flap Gate, 0.9 m x 1.1 m		
	- Wooden Stop Log		
9	River Amenity and Maintenance Facilities		
	- Approach Steps,		
Table 1	- Walk Way, Gravel pavement t=150 b=3.0 m		
	- Water Level Gauging Station		
	- Tree Planting		

(2) Simongan Weir

Weir Structure

Item	Dimension
- Number of pier	Center pier: 4, End pier: 2
- Center pier	
Length (flow direction)	16.5 m
Width (right angle to flow)	2.5 m x 4 units
Height	14.1 m (2001) 2001 (2004) 2004
Footing	18.5 m x 8.0 m x 2.2/1.6 m
- End pier	
Length (flow direction)	16.5 m
Width (right angle to flow)	2.00 m x 2 units
Height	14.1 m
Footing Footing	18.5 m x 15.0 m x 2.2/1.6 m
- Gate floor slab	18.5 m x 13.0 m x 2.0/1.4 m
- Stilling basin	L=20.0 m, Depth=0.6 m
- Concrete apron (Downstream-1)	76.5m x 15.0m x 1.2m
- Concrete apron (Downstream-2)	79.5m x 10.0m x 1.0m
- Concrete apron (Upstream)	76.5m x 10.0m x 7.5m
- Approach wall (Downstream-1)	H=9.1m, L=15.0m
- Approach wall (Downstream-2)	H=7.5m, L=10.0m
- Approach wall (Upstream)	H=8,5m, L=15.0m
- Deck of Control House	6.7m x 6.7m x 2units, 13.05m x 6.70m x 2units

Gate:

Item	Dimension
- Flood discharge gate	3 gates
Gate type	Shell type steel roller gate
Height	3.70 m
Clear span length	18.50 m
- Sediment discharge gate	2 gates
Gate type	Girder type steel roller gate
Height	4.35 m
Clear span length	5.50 m
- Right intake gate	for Semarang River
Gate type	Steel slide gate
Dimension	H=2.0m x W=2.25m x 4
Water intake	0.50 m ³ /s
- Left intake gate	for Irrigation Channel
Gate type	Steel slide gate
Dimension	H=2.0m x W=2.00m x 2
Water intake	0.15 m ³ /s

Right Bank Intake Structure

Location (Center Line)	17.50 m upstream from the edge of pier footing	
Clear Span of Gate	H=2.25 m x W=2.0 m - four (4) gates Gate pier, Operation deck, Box culvert, Breast wall, Apron, Connecting wall, Foundation pile, Sheet pile Box Culvert: Width = 13.05 m, Length = 7.00 m Apron: Width = 13.05 m, Length = 3.675 m	
Structural Component		
Dimension of sluice		
	Breast Wall : Width = 3.475 m, Height = 5.20 m	
Foundation Structure	Prestresed Concrete Pile, Dia.350 (A), Length 15.0 m	
Seepage Block Structure	Steel sheet pile, type-II, L = 6.0 m	

Left Bank Intake Structure

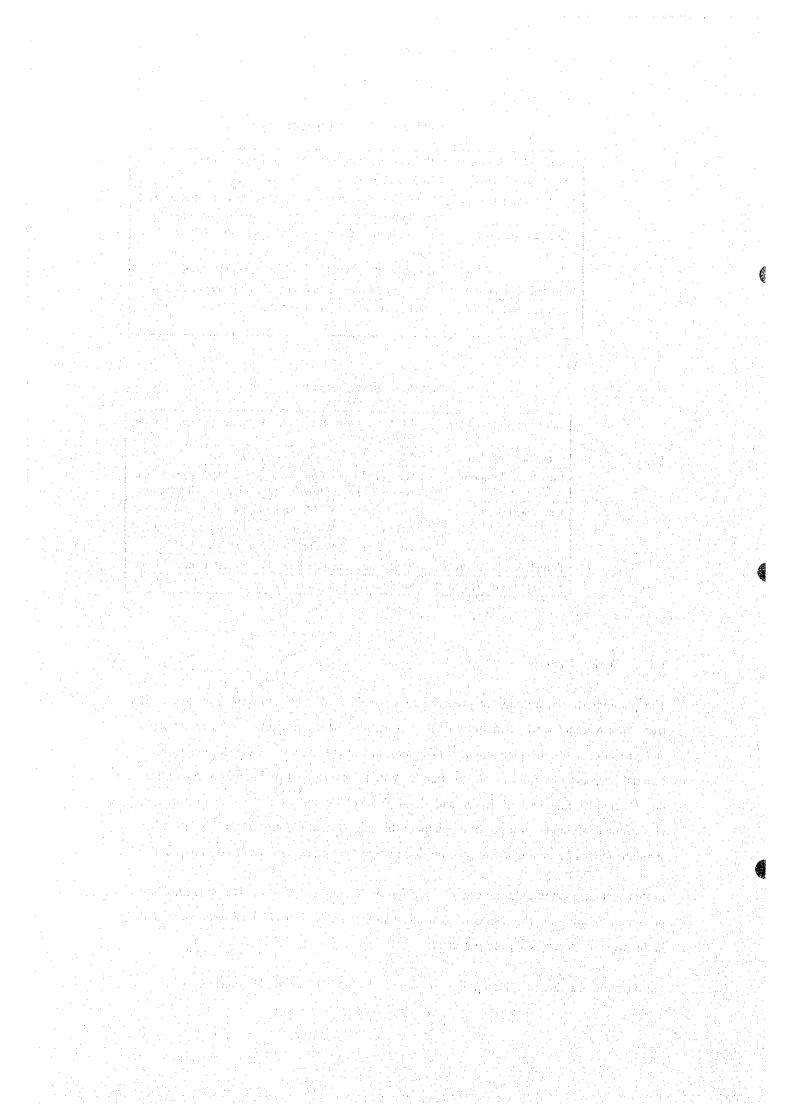
Location (Center Line)	13.70 m upstream from the edge of pier footing (WF.99+39.00 m)		
Clear Span of Gate	2.0 m x 2.0 m – two (2) gates		
Structural Component	Gate pier, Operation deck, Box culvert, Breast wall, Apron, Connecting wall, Foundation pile, Sheet pile		
Dimension of sluice	Box Culvert: Width = 6.35 m, Length = 7.00 m Apron: Width = 6.35 m, Length = 3.675 m Wing Wall: Width = 3.025 m, Height = 5.15 m		
Foundation Structure	Prestrresed Concrete Pile, Dia.350 (A), Length 14.0m		
Seepage Block Structure	Steel sheet pile, type-II, L = 6.0 m		

1.3 Design Criteria

The planning/design criteria are prepared to serve the hydraulic and structural design of river improvement works and flood control structures for the project. The basic concepts and procedures for the planning and designing are based mainly on the "Flood Control Manual" prepared by the Ministry of Public Works, Government of Indonesia. As well as the "Technical Standard of River and Sabo Works" by the Ministry of Construction, Government of Japan, is used to supplement the said "Flood Control Manual". The other standards/codes pertaining to the specific flood control structures are also used as required.

In this section, planning/design criteria focusing on hydraulic design of river structures are presented. In addition, the results of geological survey and soil mechanical tests conducted in the previous survey stage are presented.

For the structural design, "Design Criteria Report, Volume-1" should be referred.



CHAPTER 2 HYDRAULIC ANALYSIS

2.1 River Flow Capacity

The flow capacity of the existing channel is estimated for West Floodway and Garang River by the non-uniform flow calculation method using the results of the channel survey conducted in 1997 under the JICA Study Team. Furthermore, the water level profile under probable floods is estimated as well.

2.1.1 Conditions on Calculation

Newly surveyed channel cross sections were used for the calculation. The other necessary conditions for the non-uniform calculation are as follows:

ſ	Return Period	Probable	Water Level *1		Manning's	
	(year)	Discharge (m³/s)	River *2 Mouth (EL. m)	Simongan *3 Weir (EL. m)	Roughness Coefficient *4	
	100	1010	0.25	9.30	0.035	
l	25	<i>7</i> 90	0.25	8.51	0.035	
	10	640	0.25	8.25	0.035	

^{*1} All elevations are based on the datum of TTG (Mean Sea Level at Tanjung Priok in Jakarta.

2.1.2 West Floodway

(1) River Cross Sections

The typical cross sections of West Floodway are shown in the following figures.

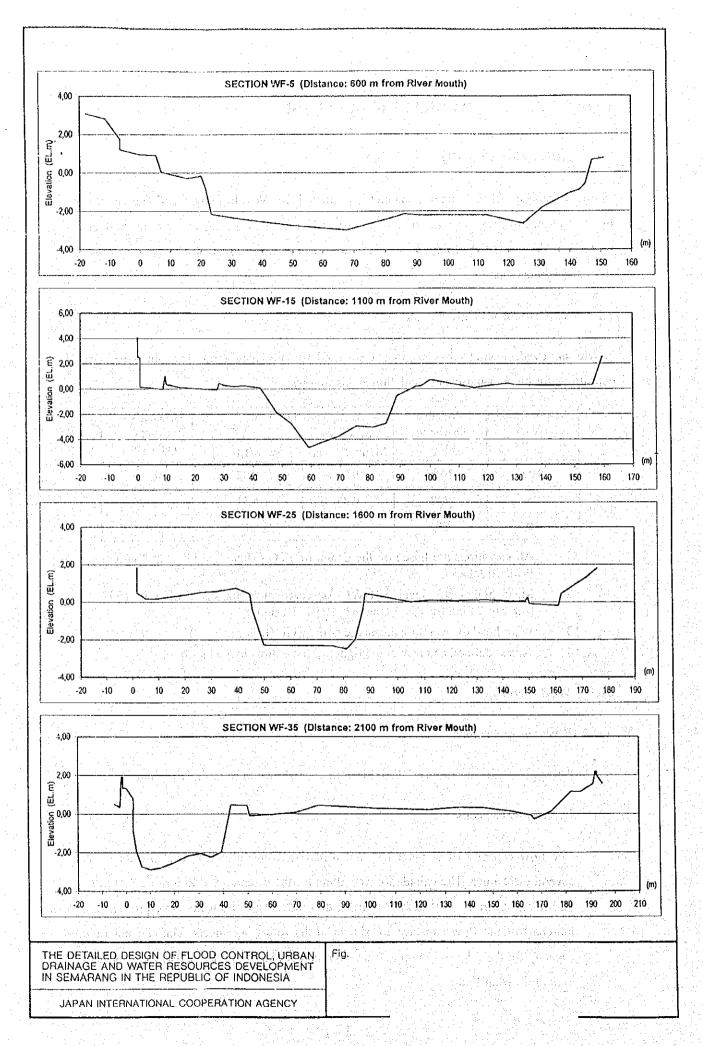
(2) River Flow Capacity

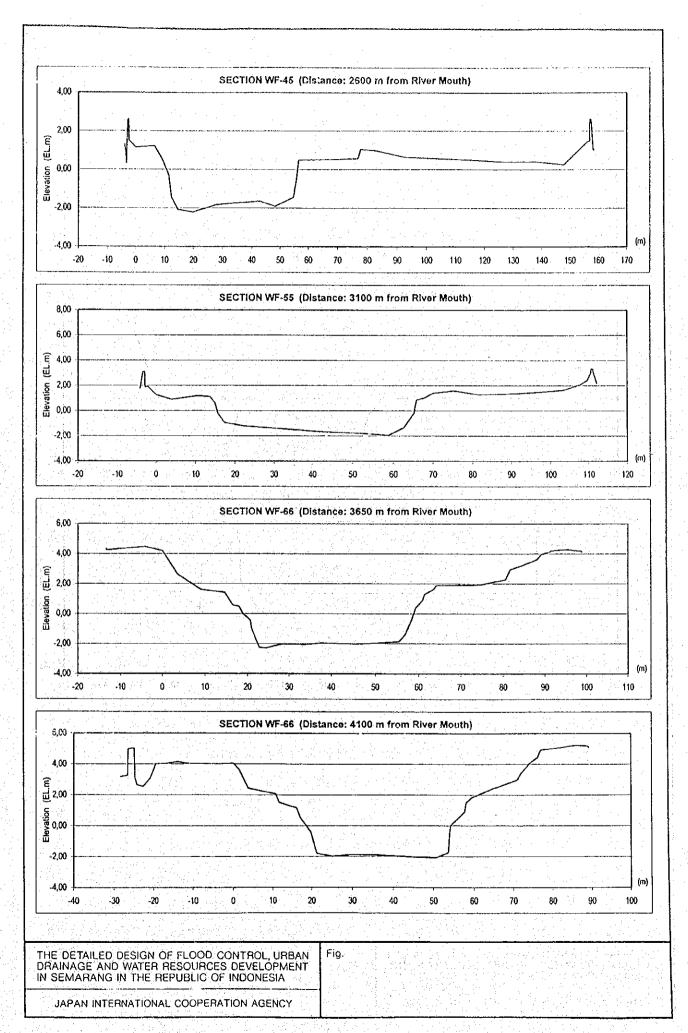
The flow capacity of channel was obtained based on the water level profile under several discharges. The calculation was done for the discharge of 200 m³/s, 300 m³/s, 400 m³/s, 500 m³/s, 600 m³/s, 700 m³/s, 800 m³/s. And, the water flow profiles and the chart of the flow capacity are shown in the following sheets. The channel flow capacity for the full section up to dike/riverbank crown of West Floodway is presented in the following figure.

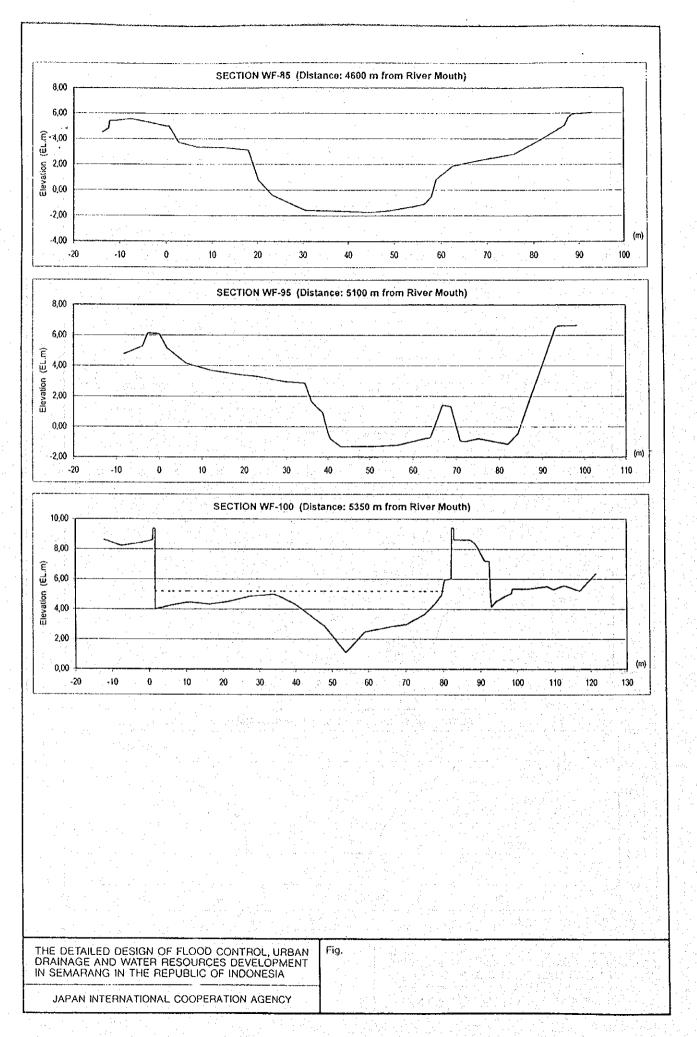
^{*2} Mean high water level (MHWL) observed at Semarang Harbor in 1997 (refer to "Plan for River Channel, Baisic Design")

^{*3} Waterhead of overflow discharge at the weir. (Refer to

^{*4} This is defined as the average figure of the entire channel section.







CASE NO.1 O D.NAME	H	A	; R	8	. V	N	Q	DX	FROUD	ΙE	TAU-0	U.*	
1 WF.1-250	0.25	411.2	1.232	334.1	0.486	0.035	200	0	1.40E-01	2.20E-04	26,5	5.147	
2 WF.1-100	0.323	304.4	1.133	272.8	0.657	0.035	200	250	1.97€-01	4.48E 04	49.7	7.05	
3 WF 0	0.368 0.397	254.1	1.133 1.653	244.3 182.1	0.787 0.74	0.035 0.035	200 200	100 50	2,36E-01 1.84E-01	6.42E-04 3.43E-04	71.32 55.57	8.445 7.455	3
4 WF-1 5 WF-2	0.397	270.3 288	1.712	178.6	0.695	0.035	200	- 50	1.70E-01	2.89E-04	48.4	6.957	100
6 WF 3	0.426	260.5	1.798	160.5	0.768	0.035	200	50	1.83E-01	3.30E-04	58.17	7,627	
7 WF 5	0.462	352.5	2.522	140.7	0.567	0.035	200	100	1.14E-01	1.15E 04	28.4	5.329	
8 WF 6 9 WF 7	0.461 0.459	294.3 239.6	2.861 2.387	110.3 107	0.68 0.835	0.035 0.035	200	50 50	1.28E-01 1.73E-01	1.39E-04 2.68E-04	39.07 62.58	6.25 7.911	
0 WF-8	0.471	233.4	2,402	102.5	0.857	0.035	200	50	1,77E-01	2.80E-04	65.81	8.112	
1 WF-10	0.5	237.5	2.387	114.3	0.842	0.035	200	100	1.74E-01	2.72E-04	63.68	7.98	
2 WF-11	0.515	247.8	2.487	126.7	0.807	0.035	200	50	1.64E-01	2.37E 04	57.71	7.596	
3 WF 12	0.533	273	2.156	156.8	0.733	0.035	200	50 50	1.59E-01 1.92E-01	2.36E-04 3.32E-04	49.89 77.66	7.063 8.812	3.
4 WF-13 5 WF-14	0.531 0.525	215.1 171.9	2.389 2.695	131 72.3	0.93 1.163	0.035 0.035	200 200	50	2.26E-01	4.42E 04		10.804	
6 WF 15 Br.	0.563	199.9	2.521	144.2	1	0.035	200	50	2.01E-01	3.57E-04	88.28	9.396	
7 WF-16	0.578	188.9	2.209	140	1.059	0.035	200	50	2.28€-01	4.78E-04	103.39	10.168	
8 WF-17	0.612	199.8	1.626	135.5	1.001	0.035	200	50	2.51E-01 2.48E-01	6.42E.04 6.08E.04	102.3	10.114 10.289	
9 WF 18 0 WF 20	0.64 0.701	193.5 201.5	1.778 1.827	137.6 140.9	1.034 0.993	0.035	200	50 100	2.45E-01 2.35E-01	5.40E-04	105.86 96.75	9.836	12.5
1 WF 21	0.727	199.8	1.942	146.7	1.001	0.035	200	50	2.30E-01	5.07E-04	96.46	9.821	. 3. 1
2 WF-22	0.755	202.3	1.697	153.3	0.988	0.035	200	50	2.42E-01	5.91E-04	98.34	9.917	
3 WF-23	0.783	197.3	1.736	157.8	1.014	0.035	200	50	2.46E-01	6.04E-04	102.66	10.132	
4 WF 24	0.81 0.848	189.6 203.3	1.718 1.748	159.6 159.5	1.055 0.984	0.035 0.035	200 200	50 50	2.57E-01 2.38E-01	6.63E-04 5.63E-04	111.56 96.48	9.823	
25 WF 25 26 WF 26	0.877	203.3	2.014	157.7	0.939	0.035	200	50	2.30c-01 2.11E-01	4.25E 04	83.8	9.154	
7 WF 27	0.899	211.7	1.873	168	0.945	0.035	200	50	2.21E 01	4.73E 04	86.89	9.321	e
8 WF.28	0.924	217.5	1,922	172.1	0.92	0.035	200	50	2.12E 01	4.33E 04	81.63	9.035	
29 WF 30	0.97	235	1.967	171.7	0.851	0.035	200	100 50	1.94E-01	3.60E-04	69.4 70.54	8.33 8.399	1.
80 WF 31 81 WF 32	0.988 1.002	235 212.9	1.873 1.889	176.1 181.3	0.851 0.939	0.035 0.035	200 200	50 50	1.99E-01 2.18E-01	3.84E-04 4.63E-04	70.54 85.68	9.256	
32 WF 34	1.052	237.2	1.91	183.7	0.843	0.035	200	100	1.95E 01	3.67E-04	68.77	8.293	. 11
33 WF 35	1.073	251.2	1.916	183.8	0.796	0.035	200	50	1.84E-01	3.26E 04	61.26	7.827	
34 WF 36	1.088	242,4	1.813	185.6	0.825	0.035	200	50	1.96E 01	3.77E 04	67.02	8.187	
35 WF 37 36 WF 38	1.108 1.128	247.2 259	1.845 1.856	195.4 189.3	0.809 0.772	0.035 0.035	200 200	50 50	1.90E-01 1.81E-01	3.54E-04 3.20E-04	64.07 58.26	8.004 7.633	
37 WF-40	1.157	234.9	1.862	194.8	0.852	0.035	200	100	1.998-01	3.88E-04	70.77	8.412	1.
38 WF-41	1.176	235.9	1.887	187.6	0.848	0.035	200	50	1.97€-01	3.78E-04	69.86	8.358	100
39 WF-42	1.193	229.6	1.906	180.6	0.871	0.035	200	50	2.02E-01	3.94E 04	73.49	8.573	
10 WF 43	1.209	216.7	1,941	172.9	0.923	0.035	200	50 50	2.12E 01	4.31E 04 3.54E 04	82.01 72.82	9.056 8.533	4. 1
11 WF 44 12 WF 45	1.233 1.245	227 208.1	2.098 2.002	159.8 152.1	0.881 0.961	0.035 0.035	200 200	50 50	1.94E-01 2.17E-01	4.48E 04	87.96	9.379	
43 WF-46	1.268	210.3	2.109	144.4	0.951	0.035	200	50	2.09E-01	4.10E-04	84.64	9.2	Sec.
14 WF-47	1.284	202.2	2.239	140.6	0.989	0.035	200	50	2.11E 01	4.09E-04	89.8	9.476	
45 WF-48	1.306	204.4	2.189	136.6	0.978	0.035	200	50	2.11E-01	4.12E-04	88.48	9.406	2.5
46 WF 50 47 WF 51	1.335 1.352	179.1 168.8	2.409	120.1 108.2	1.117 1.185	0.035 0.035	200 200	100 50	2.30E-01 2.42E-01	4.73E 04 5.24E 04	111.69 125.16	10.569 11.188	
48 WF 52	1.377	167.1	2.431	108.1	1.197	0.035	200	50	2.45E-01	5.37E-04	127.86	11.307	1 64
49 WF-54	1.432	174.3	2.674	103.2	1.148	0.035	200	100	2.24E 01	4.35E-04	113.94	10.674	
50 WF-55	1.44	156	2.576	90.8	1.282	0.035	200	50	2.55E-01	5.70E-04	143.99	12	
51 WF-56 52 WF-57	1.475 1.496	164.5 162.2	2,774 2,75	69.1 96.4	1.216 1.233	0.035	200 200	.50 .50	2.33E-01 2.38E-01	4.65E 04 4.84E 04	126.38 130.33	11.242 11.416	
53 WF 58	1.532	167.9	1.899	86.6	1,191	0.035	200	50	2.768-01	7.39E 04	137.51	11.727	
54 WF 60	1.585	163	3.03	69.8	1,227	0.035	200	100	2.25E-01	4.218-04	124.9	11.176	
55 WF 61	1.604	160.5	3,178	69.3	1.246	0.035	200	50	2.23E 01	4.07E-04	126.79	11.26	
56 WF-62	1.628	165.1	3.071	66.9 60.5	1.211 1.126	0.035	200	50 100	2.21E-01 2.02E-01	4.03E 04 3.34E 04	121.2 103.72	11.009 10.184	
57 WF-64 58 WF-65 Br.	1.675 1.673	177.6 149.8	3.167 2.588	53	1.335	0.035 0.035	200 200	50	2.65E 01	6.14E-04	155.81	12.483	
59 WF 66	1.702	151	3.062	58	1.324	0.035	200	50	2.42E-01	4.83E-04	144.99	12.041	
60 WF-67	1.725	150.5	3.089	56.1	1,329	0.035	200	50	2.42E-01	4.81E 04	145.53	12.064	÷.
61 WF-68	1.725	132.7	3.491	52.1	1.507	0.035	200	50	2.58E-01	5.25E 04	179.69	13.405 14.339	
62 WF-70 63 WF-71	1.76 1.78	122.8 119.5	3.714 3.856	41.8 48	1.629 1.674	0.035 0.035	200 200	100 50	2.70E-01 2.72E-01	5.65E-04 5.67E-04	205.62 214.43	14.339	150
64 WF-72	1.785	109.5	3.672	62	1.827	0.035	200	50	3.05E 01	7.22E-04	259.81	16.119	1.00
65 WF-73 Br.	1.899	150.5	2.599	- 55	1.329	0.035	200	50	2.63E-01	6.05E-04	154.15	12.416	
66 WF-74	1.959	197.5	3.021	63.8	1.013	0.035	200	50	1.86E-01	2.88E 04	85.2	9.23	
67 WF-75	1,937	147.1	2.964	49.7	1.36	0.035 0.035	200 200	50 50	2,52E-01 2.55E-01	5.32E-04 5.33E-04	154.52 165.53	12.431 12.866	
68 WF-76 69 WF-77	1.955 1.99	140.6 148	3.167 3.222	44.3 46.6	1.423 1.351	0.035	200	50 50	2.55E-01 2.41E-01	5.33E-04 4.70E-04	148.38	12.866	
70 WF-78	2.007	141.6	3.142	44.7	1.412	0.035	200	50	2.55E 01	5.31E-04	163,42	12.784	
71 WF-80	2.065	144.3	2,948	47.2	1.386	0.035	200	100	2.58E 01	5.57E-04	160.87	12.683	
72 WF-81	2.096	148.2	3.069	52.4	1.35	0.035	200	50	2.46E 01	5.00E-04	150.46	12.266	
73 WF-82	2.12	147.1	3.147	49	1.359	0.035	200	50	2.45E 01	4.91E 04	151,35		
74 WF-84	2.16 2.193	136.9 138.4	2.96 2.99	50.1 48	1.461 1.446	0.035	200 200	100 50	2.71E-01 2.67E-01	6.15E-04 5.94E-04	178.42 174.13	13.357 13.196	
75 WF-85 76 WF-86	2.193	138.4	2.99 3.176	47.4	1.446	0.035	200	50 50	2.46E-01	4.93E-04	153.3		
77 WF 87	2.26	151.1	3.306	46.4	1.324	0.035	200	50	2.33E-01	4.36E-04	141.19	11.882	
78 WF-88	2.274	141.9	2.956	50.9	1.409	0.035	200	50	2.62E 01	5.73E-04	166.08	12.887	100
79 WF-90	2.326	136.8	2.933	45.5	1.462	0.035	200	100	2.73E 01	6,24E 04	179.38	13.393	
80 WF 91	2.364	143.6	3.163	45.7	1.393	0.035	200	50 50	2,50E-01 2,65E-01	5.12E-04 5.69E-04	158.66 181.7	12.596 13.48	
81 WF-92 82 WF-93	2.376 2.427	133.5 150.9	3.261 3.062	42 46.7	1,498 1,325	0.035 0.035	200 200	50 50	2.42E 01	5.69E-04 4.84E-04	145.23	12.051	
83 WF-94	2.427	167.7	3.367	51.6		0.035	200	50	2.08E 01	3.45E-04	113.89	10.572	
84 WF-96	2.496	157.8	2.978	52	1,268	0.035	200	100	2.35E 01	4.59E-04	134.07	11.579	1 1 11
85 WF-97	2.526	163.2	2.479	68.2	1.225	0.035	200	50	2.49E-01	5.48E-04	133.21	11.541	
86 WF 98	2.602	364.2	4.171 0.944	87.5 86.9	0,549 2,432	0.035	200 200	50 50	8.59E-02 8.00E-01	5.50E-05 5.75E-03	22.5 531.7	4.743 23.059	
87 WF-99 88 WF-100	2.654 7.016	82.2 79	1.021	76.1	2.432	0.035	200	. 0	8.00E 01	7.63E-03	763,63	27,634	***
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V	ASE NO.2													
NO	D-NAME	н	Α	R	В	٧	- N		ΛV	CDOUG				
	VF.1.250	0,25	411.2	1.232	334.1	0.73	0.035	Q 300	ĐΧ	FROUD	31	TAU-0	Ų.	HANT
	VF.1-100	0.397	324.7	1.204	274.7	0.924	0.035		250	2.10E-01	4.94E-04	59.62	7.721	
	VF-0	0.478	281.2	1.205	256,7	1.067		300	250	2.69E-01	8,17E-04	96.35	9.816	4.
4 W		0.525	293.5	1.761	183.3	1.022	0.035	300	100	3.11E-01	1.09E-03	128.43	11.333	**
	VF-2	0.559	313.6	1.844	178.8		0.035	300	50	2.46E-01	6.02E-04	103.87	10.192	
6 Y		0.576	284.9	1.925	161.8	0.957	0.035	300	50	2.25€-01	4.968-04	89.62	9.467	
7 W		0.639	377.9	2.688		1.053	0.035	300	50	2.42E-01	5.67E-04	107	10.344	1.0
8 W		0.636			144.2	0.794	0.035	300	100	1.55E-01	2.07E-04	54.4	7.376	
9 W		0.633	313.7 258.7	3.007	111.2	0,956	0.035	300	50	1.76E-01	2.58E-04	76.09	8.723	
10 W				2,511	111	1.159	0.035	300	50	2.34E-01	4.83E-04	118.75	10.897	11
11 W		0.654	252.9	2.541	107.1	1.186	0.035	300	50	2.38€ 01	4.97E-04	123.82	11.128	
		0.707	262.5	2.539	117.7	1.143	0.035	300	100	2.29€-01	4.62E-04	114.95	10.722	
12 W		0.735	275.8	2,642	127.5	1.088	0.035	300	50	2.14E-01	3.97E-04	102.72	10.135	
13 W		0.767	310.2	2.327	158.8	0.967	0.035	300	50	2.03E-01	3.728-04	84.74	9.205	
14 W		0.762	245.9	2.495	136.3	1.215	0.035	300	50	2.46E-01	5.34E-04	130.64	11.43	100
	/F-14	0.745	191.9	2.749	85.5	1.564	0.035	300	50	3.01E-01	7.78E-04	209.5	14.474	1.1
	/F-15 Br.	0.822	238,6	2.557	148.3	1.258	0.035	300	50	2.51E-01	5.54E-04	138.84	11.783	1.00
- 17 W		0.846	227.7	2.291	144	1.317	0.035	300	50	2.78E-01	7.04E-04	158.05	12.572	4 19
18 W		0.895	240.2	1.786	145.9	1.249	0.035	300	50	2.99E-01	8.82E-04	154.34	12.423	
19 W		0.933	234,5	1.963	144.6	1.279	0.035	300	50	2.92E 01	8.16E-04	156.87	12.525	
_ 20 W		1.017	246.1	2.035	143,6	1.219	0.035	300	100	2.73E-01	7.06E-04	140.73	11.863	a Salar
21 W	/F-21	1.052	247.9	2.106	149.8	1.21	0.035	300	50	2.665.01	6.65E-04	137.15	11.711	Market Company
22 W	/F-22	1.09	254.3	1.919	156.7	1,179	0.035	300	50	2.72E 01	7.15E-04	134.39	11.593	e de la production de la constantial de
23 W	/F-23	1.126	252.8	1.916	164.4	1.187	0.035	300	50	2.74E-01	7.25E-04	134.39	11.568	and the second
.24 W	F-24	1.16	247.4	1.873	167.3	1.213	0.035	300	50	2.83E-01	7.80E-04			1 P. C.
. 25 W		1.204	262.2	1.937	168.6	1.144	0.035	300	50	2.63E-01	6.64E-04	143.18 126.1	11.966	
26 W		1.239	272.7	2.139	169.9	5. 1.1	0.035	300	50	2.40E-01	5.38E-04		11.229	
	F-27	1.268	275.3	2.033	176	1.09	0.035	300	50	2.40E-01		112.74	10.618	
		1.299	283.9	2.076	183.1	1.057	0.035	300	50	2.44E-01 2.34E-01	5.65E-04	112.49	10.606	\$ 6.20
29 W		1.353	302.2	2.179	175.4	0.993	0.035	300			5.16E 04	105.04	10.249	gjar i i
30 W		1.375	304.7	2.1	180.3	0.985	0.035	300	100	2.15E-01	4.28E-04	91.28	9.554	
31 W		1.392	284.4	2.057	187.2	1.055	0.035			2.17E-01	4.42E-04	90.87	9.533	A 1.5
32 W		1.449	311	2.073	195.7	0.965		300	50	2.35E-01	5.21E-04	105.02	10.248	
33 W		1.474	326.9	2.11	194.1	0.918	0.035	300	100	2.14F-01	4.31E-04	87.61	9.36	
34 W		1.491	317.5				0.035	300	50	2.02E-01	3.81E-04	78.82	8,878	
	/F-37	1.514	326.4		189.8	0.945	0.035	300	50	2.11E-01	4.22E-04	84.47	9.191	Age 1
36 W		1.536	336.8	2.041	202.5	0.919	0.035	300	50	2.06E-01	4.00E-04	79.95	8.941	
37 W		1.569		2.106	193	0.891	0.035	300	50	1.96E 01	3.60E 04	74.3	8.62	
38 W			315.7	2.052	197.1	0.95	0.035	300	100	2.12E 01	4.24E-04	85.32	9.237	
39 W		1.59	314.3	2.092	189.9	0.955	0.035	300	50	2.11E-01	4.17E-04	85.52	9.248	
		1.609	305.1	2.109	183.2	0.983	0.035	300	50	2.16E-01	4.38E-04	90.53	9.515	- 1 Y
40 W		1.626	289.5	2.117	177.1	1.036	0.035	300	50	2.28E-01	4.84E-04	100.38	10.019	
41 W		1.651		2.278	168.5	1.017	0.035	300	. 50	2.15E-01	4.23E-04	94.38	9.715	
42 W		1.666	274	2.182	161.5	1.095	0.035	300	50	2.37E-01	5.19E-04	110.94	10.533	Section 1997
43 W		1.691	273.3	2.294	154	1.098	0.035	300	50	2.32E-01	4.88E-04	109.7	10.474	
44 W		1.711	264.4	2.382	148.5	1.135	0.035	300	50	2.35E-01	4.96E-04	115.77	10.76	
45 W		1.736	263.9	2.391	140.2	1.137	0.035	300	50	2.35E-01	4.95E-04	115.99	10.77	
46 W		1.773	235.8	2.495	135	1.272	0.035	300	. 100	2.57E-01	5.86E-04	143.27	11.97	
. 47 W		1.794	223.3	2.521	129.3	1.343	0.035	300	50	2.70E-01	6.44E-04	159.15	12.616	
48 W		1.823	218.4	2.564	119.8	1.374	0.035	300	50	2.74E-01	6.59E-04	165.5	12.865	ar ar ear
49 W		1.889	225.1	2.793	117.4	1.333	0.035	300	100	2.55E 01	5.53E-04	151.39	12.304	
50 W		1.899	202.5	2.719	107.3	1.481	0.035	300	50	2.87E 01	7.08E-04	188.76	13.739	According to the second
51 W		1.935	205.1	2.951	98	1.463	0.035	300	50	2.72E 01	6.19E-04	179.11	13.383	
52 W		1.97	209.4		102	1.433	0.035	300	50	2.69E-01	6.10E-04	172.92	13.15	
53 W		2.008	210.9		92.5	1.422	0.035	300	50	3.04E-01	8.49E-04	185.76	13.63	4.1
54 W		2.069	201	3.236	84.2	1.492	0.035	300	100	2.65E-01	5.70E-04	180.77	13.445	
55 W		2.097	200.7	3.322	85.8	1.494	0.035	300	50	2.62E-01	5.52E-04	179.69	13.405	A
56 W		2.126	202.8	3.301	79.5	1.479	0.035	300	50	2.60E-01	5.45E 04	176.45	13.283	
57 W		2.189	215.3	3.444	78.5	1.393	0.035	300	100	2.40E-01	4.57E-04	154.33	12,423	
	/F-65 Br.	2.178	179.7	2.876	66.7	1.669	0.035	300	50	3.14E-01	8.34E-04	235.18	15.336	Carlotte Comment
59 W		2.223	184.6	3.365	72.4	1.625	0.035	300	50	2.83E-01	6.42E-04	211.62	14.547	
. 60 W		2.255		3.361	69.8	1.626	0.035	300	50	2.83E-01	6.43E-04	211.77	14.552	
61 W		2.221	149.8	3.931	54.8	2.003	0.035	300	50	3.23E-01	7.92E-04	305.16	17.469	
62 W		2.265	137,3	4.134	43.8	2.185	0.035	300	100	3.43E-01	8.81E-04	357.07	18.896	
63 W		2.293		4.27	51	2.258	0.035	300	50		9.02E-04	377.44	19.428	TYLES TO SE
64 W		2.289	120.5	. 4.021	66.7	2.49	0.035	300	50	3.97E-01	1.19E-03	468.25	21.639	
	/F∙73 Br.	2.53	191.5	2.751	73.7	1.567	0.035	300	50	3.02E-01	7.80E-04	210.36	14.504	100
66 W		2.604	241.5	3.567	73.6	1.242	0.035	300	50	2.10E-01	3.47E-04	121.2	11.009	
67 W		2.571	182.9	3.424	63.6	1.64	0.035	300	50	2.83E-01	6.38E-04	214.24	14.637	stáir a g
68 W		2.59	174.8	3.583	62.6	1.717	0.035	300	50	2.90E-01	6.59E-04	231.21	15.206	
69 W	/F-77	2.639	186.2	3.609	68.4	1.611	0.035	300	50	2.71E-01	5.74E-04	203.16	14.253	
70 W	∕F∙78	2.654	176.3	3,59	67.6	1.701	0.035	300	50	2.87E-01	6.45E-04	226.96	15.065	47
71 W	/F-80	2.722 👙	177.6	3.465	62.9	1.69	0.035	300	100	2.90E-01	6.67E-04	226.47	15.049	4. 算 · 2.
72 W	/F-81	2.765	185.5	-3.561	59.9	1.617	0.035	300	50	2.74E-01	5.89E-04	205.57		
73 W		2.791	183.2	3.645	62	1.638	0.035	300	50	2.74E-01	5.86E-04	205.57	14.338	Association of the
74 W	/F-84	2.841	174.5		57.9	1.719	0.035	300	100	2.96E-01	6.96E-04		14.466	Addition of the
75 W		2.876	174.7	3.443	58.9	1.717	0.035	300	50	2.96E-01	6.95E 04	234.87	15.326	estado filosoficios
76 W		2.922	182.7	3.611	58.5	1.642	0.035	300	50 50	2.76E-01	5.96E-04	234.4	15.31	in a final state.
- 77 W		2.956	187.3	3.825	56,4	1.602	0.035	300	50 50			210.87	14.521	
78 W		2.974	179.8	3.496	56.4	1.669	0.035	300		2.62E-01	5.26E-04	197.01	14.036	
79 W		3.028	171.9	3.496	54.7	1.745	0.035		50	2.85E-01	6.43E-04	220.27	14.841	44.
80 W		3.074	179.7	3.671	58.2	1.669	0.035	300 300	100	2.98E-01	7.03E-04	240.87	15.52	
81 W		3.08	165	3.793	50.4	1.818		4.0	50 50	2.785.01	6.03E.04	216.86	14.726	
82 W		3.148	186.8	3.58	53.5	1.606	0.035 0.035	300	50	2.98E-01	6.84E-04	254.33	15,948	
83 W		3.199	208.3	3.943	59.7	1.606		300	50 50	2.71E 01	5.77E-04	202.33	14,224	
84 W		3.233	197.6	3.591	60.1		0.035	300	50	2.32E-01	4.08E-04	157.6	12.554	1.00
85 W		3.28	217.9	3.043	78.2	1.518	0.035	300	100	2.56E-01	5.14E-04	180.73	13.444	
86 W		3.367	431.6		90,5	. 1.376 0.695	0.035	300	50	2.52E-01	5.26E-04	156.96	12.528	
87 W		3.191	129.4		88.4	2.319	0.035	300	50	1.01E-01	7.19€.05	34.24	5.852	
		7.339	104.3	1.319	79.1	2.319	0.03	300	50	6.11E-01	2.90E-03	417.27	20.427	<u>- 1</u> 164 - 1
~~ ·1			AUT.U	1,313	79.1	2.013	0.035	300	0	8.00E 01	7.00E-03	904.97	30.083 *	**
	100				100			2.5	1 . S		and the state of		1.5	to the contract of

	NO D NAME	Н					.,			55 O		******		
	1 WF.1-250	0.25	A 411.2	R 1,232	8 334.1	0.973	N 0.035	Q 400	OX O	FROUD 2.80E-01	Æ 8.78E∙04	TAU-0 105,99	Մ.* 10.295	HANT
	2 WF.1-100	0.485	348.4	1.288	276.9	1.148	0.035	400	250	3.23E-01	1.15E 03	145.39	12.058	
	3 WF 0	0.596	311.4	1.308	259.1	1.284	0.035	400	100	3.59E-01	1.41E-03	181.1	13,457	
	4 WF-1	0.655	317.5	1.879	183.4	1,26	0.035	400	50	2.94E-01	8.39E-04	154.47	12.428	
	5 WF 2 6 WF 3	0.704 0.726	339,4	1.981	178.8	1.179	0.035	400	50	2.68E-01	6.84E-04	132.77	11.522	
	7 WF-5	0.726	309.6 403.4	2,054 2.853	163.3 148.3	1.292 0.991	0.035 0.035	400 400	50 100	2.885-01	7.83E-04	157.68	12.557	11
	8 WF-6	0.809	332.8	3.151	112.2	1,202	0.035	400	50	1.88E-01 2.16E-01	2.98E-04 3.83E-04	83.21 118.29	9.122 10.876	
	9 WF-7	0.803	277.9	2.643	114.7	1.439	0.035	400	50	2.83E-01	6.95E-04	179.89	13,412	11 1
	10 WF-8	0.834	272.4	2.692	111.3	1.468	0.035	400	50	2.86E-01	7.05E-04	186.06	13.641	
	11 WF-10	0.912	287.2	2.69	121.1	1.393	0.035	400	100	2.71E-01	6.35E-04	167.48	12.941	
	12 WF-11 13 WF-12	0.952 0.998	303,6 347,2	2.796 2.497	128.4	1.318	0.035	400	50	2.52E-01	5.40E-04	147.95	12.163	1.
	14 WF 13	0.99	278.5	2.497	160.7 141.7	1,152 1,436	0.035 0.035	400 400	50 50	2.33E 01 2.85E 01	4.80E-04	117.47	10.838	1.41
	15 WF 14	0.958	211.1	2.8	98.2	1.895	0.035	400	50	3,62E 01	7.07E-04 1.12E-03	180.12 305.9	13.421 17.49	
	16 WF 15 Br.	1.081	277.2	2.625	151.2	1.443	0.035	400	50	2.85E 01	7.05E-04	181.27	13.464	
	17 WF-16	1.111	266.2	2.41	146.2	1.503	0.035	400	50	3.09E-01	8.56E-04	202.2	14.22	17
	18 WF-17	1.169	280.7	1.985	150.6	1.425	0.035	400	50	3.23E-01	9.97E-04	193,94	13.926	
	19 WF-18 20 WF-20	1.213 1.308	275.5	2.166	147.9	1.452	0.035	400	50	3.15E-01	9.21E-04	195.56	13.984	
1	21 WF 21	1.35	288.5 293.2	2.255 2.304	146.2 153	1.386 1.364	0.035 0.035	400 400	100 50	2.95E-01 2.87E-01	7.96E-04	175.95	13.265	
	22 WF-22	1.394	302.7	2.143	160.7	1.321	0.035	400	50	2.88E-01	7.49E-04 7.74E-04	169.19 162.57	13.007 12.75	As gar
	23 WF-23	1.433	303.6	2.131	166.7	1.317	0.035	400	50	2.88E-01	7.75E-04	161.9	12.724	
	24 WF-24	1.471	299.7	2.078	169.7	1.335	0.035	400	50	2.96E-01	8.23E-04	167.59	12.946	
ž, Š	25 WF-25	1.518	315.3	2.147	171.7	1.269	0.035	400	50	2.77E-01	7.12E-04	149.8	12.239	* 1
	26 WF 26 27 WF 27	1,556 1,589	326.8 332.3	2.3 2.22	176.9	1.224	0.035	400	50	2.58E-01	6.05E-04	136.28	11.674	
	28 WF.28	1.623	343.8	2.262	181 188.2	1.204 1.164	0.035 0.035	400 400	50 50	2.585-01	6.13E-04	133.35	11.548	4.4
Š.	29 WF-30	1.681	360.3	2.395	177.2	1.11	0.035	400	100	2.47E-01 2.29E-01	5.59E 04 4.71E 04	123.83 110.6	11.128 10.517	10 L
	30 WF-31	1.706	365	2.324	182.9	1.096	0.035	400	50	2.30E-01	4.78E 04	108.87	10.434	8 E
	31 WF-32	1.727	349.2	2.215	197.6	1.146	0.035	400	50	2.46E-01	5.57E-04	120.85	10.993	4.4
	32 WF-34	1.787	377.3	2.293	198.1	1.06	0.035	400	100	2.24E-01	4.56E-04	102.35	10.117	1997
	33 WF-35 34 WF-36	1.813 1.832	393.5 383.7	2.336 2.264	197.7 195.9	1.017	0.035	400	50	2.12E-01	4.08E-04	93.49	9.669	
	35 WF 37	1.857	395.8	2.289	202.6	1.042 1.011	0.035 0.035	400 400	50 50	2.21E-01 2.13E-01	4.48E-04	99.34	9.967	K. A.
	36 WF-38	1.878	403.2	2.364	194.4	0.992	0.035	400	50	2.13E-01 2.06E-01	4.15E-04 3.83E-04	93.05 88.68	9.646 9.417	dian'i sa
÷	37 WF-40	1.914	383.6	2.291	197.3	1.043	0.035	400	100	2.20E-01	4.41E-04	99	9.95	34.37
	38 WF-41	1.935	379.8	2.33	190.4	1.053	0.035	400	50	2.20E-01	4.40E-04	100.43	10.021	a for the
. , .	39 WF-42	1.954	368.3	2.344	183.7	1.086	0.035	400	50	2.27€-01	4.64E-04	106.61	10.325	
4	40 WF-43 41 WF-44	1.972 1.998	350.8 353.3	2.345 2.5	177.4 168.7	1.14	0.035	400	50	2.38E-01	5.11E 04	117.5	10.84	
	42 WF 45	2.014	330.2	2.41	161.5	1.132 1.211	0.035 0.035	400 400	50 50	2.29E-01 2.49E-01	4.63£ 04 5.57£ 04	113.37 131.42	10.647 11.464	
- 1	43 WF-46	2.04	327.4	2,502	156.7	1.222	0.035	400	50	2.47E-01	5.38E 04	131.42	11.488	A STATE
	44 WF-47	2.062	316.9	2.568	152.1	1.262	0.035	400	50	2.52E-01	5.55E-04	139.65	11.817	Partie teal.
	45 WF-48	2.088	313.5	2.6	143.1	1.276	0.035	400	50	2.53E-01	5.58E-04	142.11	11,921	
٠	46 WF 50	2.131	284.1	2.656	138.3	1.408	0.035	400	100	2.76E-01	6.60E-04	171.84	13.109	
7	47 WF-51 48 WF-52	2.155 2.185	270.3 263	2.674 2.72	132,9 125.7	1.48 1.521	0.035 0.035	400	50	2.89E-01	7.23E-04	189.4	13.762	
	49 WF-54	2.26	269.1	2.964	120.3	1.486	0.035	400 400	50 100	2.95E-01 2.76E-01	7.46E-04 6.36E-04	198.89 184.61	14.103 13.587	
**	50 WF-55	2.271	243.3	2.883	112.7	1.644	0.035	400	50	3.09E-01	8.07E-04	227.96	15.098	
	51 WF-56	2.31	244.3	3.101	108.4	1.638	0.035	400	50	2.97E-01	7.26E-04	220.77	14.858	1500
٠.	52 WF-57	2.351	248.8	3.089	104.8	1.608	0.035	400	50	2.92E-01	7.04E-04	213.11	14.598	
	53 WF-58 54 WF-60	2.391 2.458	247,4 234,3	2.459 3.422	98.6	1.617	0.035	400	50	3.29E-01	9.65E-04	232.53	15.249	
•	55 WF 61	2.493	235.1	3.508	90.5 87.8	1,707 1,701	0.035 0.035	400 400	100 50	2.95E-01 2.90E-01	6.92E-04 6.65E-04	232.18 228.69	15.237 15.123	
	56 WF-62	2.528	236.3	3,492	86.5	1.693	0.035	400	50	2.89E-01	6.62E-04	226.72	15.057	414-4
	57 WF-64	2.603	248.7	3.674	83	1.609	0.035	400	100	2.68E-01	5.59E-04	201.31	14.188	1841-4
t, i	58 WF 65 Br.	2.591	210.8	3.016	82.3	1.898	0.035	400	50	3.49E-01	1.01E-03	299.18	17.297	
	59 WF 66 60 WF 67	2.645 2.682	216.4	3.581	77.6	1.849	0.035	400	50	3.12E-01	7.64E-04	268.18	16.376	* 1
	61 WF-68	2.595	216 162.6	3,572 4.263	76.5 56.8	1.852 2.459	0.035 0.035	400 400	50 50	3.13E-01	7.69E-04	269.33	16.411	
	62 WF-70	2.646	148.2	4.451	45,4	2.698	0.035	400	100	3.81E-01 4.09E-01	1.07E-03 1.22E-03	447.85 531.4	21.162 23.052	1.0
	63 WF-71	2.68	142.9	4.582	53.3	2.8	0.035	400	50	4.18E-01	1.26E-03	566.57	23.803	
1	64 WF-72	2.66	128.6	4.277	70.1	3.111	0.035	400	50	4.81E-01	1.71E-03	715.93	26.757	
	65 WF-73 Br.	3.064	228.7	2.894	82	1.749	0.035	400	50	3.28E-01	9.09E-04	257.73	16.054	1 T + 4
٠.	66 WF-74 67 WF-75	3.15 3.11	283 219.3	3,984 3,73	78 74	1.414	0.035 0.035	400 400	50 50	2.26E-01	3.88E-04	151.34	12.302	
	68 WF-76	3.129	209.5	3.864	68.5	1.909	0.035	400	50 50	3.02E-01 3.10E-01	7.05E-04 7.37E-04	257.53 278.91	16.048 16.701	
- 1	69 WF-77	3,187	223.8	3.89	71.3	1.787	0.035	400	50	2.90E-01	6.40E-04	243.89	15.617	
٠.	70 WF-78	3.206	214.6	3.822	71.9	1.864	0.035	400	50	3.05E-01	7.12E 04	266.64	16.329	. "
	71 WF-80	3.285	219.3	3.698	79.2	1.824	0.035	400	100	3.03E-01	7.13E-04	258.39	16.075	
	72 WF 81 73 WF 82	3.323 3.352	221.5	3.859	79.3	1.806	0.035	400	50	2.94E-01	6.60E-04	249.61	15.799	
	74 WF-84	3,403	219.3 207	3.926 3.834		1.824 1.932	0.035 0.035	400	50	2.94E-01	6.58E-04	253.17	15.911	
7:	75 WF-85	3.444	208.8	3.781	67.8	1.916	0.035	400 400	100 50	3.15E 01 3.15E 01	7.62E-04 7.63E-04	286.3 282.78	16.92 16.816	14 14
	76 WF-86	3,492	215.8	3.939	75.1	1.854	0.035	400	50	2.98E-01	6.77E-04	261.23	16.163	5.
	77 WF-87	3.531	220.5	4.207	62.7	1.814	0.035	400	50	2.83E-01	5.93E-04	244.64	15.641	2000
	78 WF-88	3.55	212.5	3.925	61.3	1.883	0.035	400	50	3.04E-01	7.02E-04	269.8	16.425	10 mm
	79 WF-90 80 WF-91	3.609 3.659	204.1	3,901	63.1	1.96	0.035	400	100	3.17E-01	7.66E-04	292.99	17.117	
	81 WF-92	3.654	211.7 191.3	4.043 4.225	71,1 57.7	1.889 2.091	0.035 0.035	400 400	50 50	3.00E 01 3.25E 01	6.79E-04	268.91	16,399	
	82 WF-93	3.741	217.8	4.09	60.9	1.837	0.035	400	50 50	2.90E-01	7.84E-04 6.32E-04	324,79 253,2	18.022 15.912	
	83 WF-94	3.802	243.3	4.387	68	1.644	0.035	400	50	2.51E-01	4.61E-04	198.18	14.078	e de la companya de
	84 WF-96	3.853	243.9	3.888	87.3	1,64	0.035	400	100	2.66E-01	5.39E-04	205.42	14.333	\$ 15 KM
	85 WF-97 86 WF-98	3.905	270.1	3.466	86.5	1.481	0.035	400	50	2.54E-01	5.12E-04	173.99	13.191	
	87 WF 99	3.997 3.838	487.1 187	5.433 2.1	93 89.9	0.821 2.139	0.035 0.03	400	50 50	1.13E-01 4.71E-01	8.65E-05	46.05	6.786	
	88 WF-100	7.624	126.9	1.584	80.7	3.151	0.035	400	0	8.00E-01	1.53E-03 6.59E-03	314.98 1022.77	17.748 31.981 *	**
			1997 1 1997 21 13	the Day to		9 J. 7 1							72,301	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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NO D-NAME	Н	· A	R	. 8	٧	·· N		OV	COOLID		****		22.1
1 WF.1-250	0.25	411.2	1.232	334.1	1.216		. Q	ĐX	FROUD	IE.	TAU-0	U-*	HANT
2 WF.1 100	0.583	375.6				0.035	500	0	3.50E 01	1.37E-03	165.6	12.869	
3 WF-0			1.383	277.8	1.331	0.035	500	250	3.62E-01	1,41E-03	190.96	13.819	
	0.717	342.7	1.42	259.1	1.459	0,035	500	100	3.91£ 01	1.64E-03	227:44	15.081	
4 WF-1	0.783	340.8	1.994	183.6	1,467	0.035	√ 500	50	3,328.01	1.05E-03	205.3	14.328	
5 WF-2	0.844	364,5	2.114	178.8	1.372	0.035	. 500	50	3.018-01	8.50E-04	176.02	13.267	-
6 WF-3	0.871	333.4	2.179	164.6	1.5	0.035	500	50	3.25E·01	9.76E-04	208.31	14.433	* * .
7 WF-5	0.984	427.9	3.012	152,2	1,169	0.035	500	100	2.15E 01	3.85E-04	113.53	10.655	
8 WF-6	0.972	351	3.287	113.2	1.424	0.035	500	50	2.51E-01	5.09E-04	163.83	12.8	4 1 1 1
9 WF-7	0.965	296.1	2.768	118.2	1.689	0.035	500	50	3.24E-01	8.99E-04	243.84	15.615	
10 WF-8	1.005	291	2.835	115.2	1.718	0.035	500	50	3.26E-01	9.01E-04	250.37	15.823	
11 WF-10	1.108	311.1	2.846	122.7	1.607	0.035	500	100	3.04E-01	7.85E-04	218.84	14.793	\$ a
12 WF-11	1.16	330.3	2.956	129	1.514	0.035	500	50	2.818-01	6.62E-04	191.72	13.846	ere en
13 WF-12	1.22	382.9	2.683	161	1.306	0.035	500	50	2.55E-01	5.61E-04	147.36	12.139	
14 WF-13	1.209	310.2	2.731	144.9	1.612	0.035	500	50	3.12E 01	8.33E.04	223.07	14.935	
15 WF-14	1.17	236.8	2.807	118.3	2,111	0.035	500	50	4.03E 01	1.38E-03	379.37		
16 WF-15 Br.	1.322	313.8	2.755	151.5	1.593	0.035	500	50	3.07E 01	8.05E-04		19.477	
17 WF-16	1.356	302.1	2.568	146.2	1.655	0.035	500	50	3.30E 01		217.35	14.743	State of the
18 WF-17	1,421	318.8	2.192	152	1.568	0.035	500	50		9.54E-04	240.18	15.498	
19 WF-18	1.468	313.5	2.359	149.9	1.595	0.035	500		3.38E 01	1.06E-03	227.26	15.075	o
20 WF 20	1.571	327	2.46	148	1.529			50	3.328-01	9.93E-04	229.42	15.147	
21 WF-21	1.618		2.5	154.9	1.495	0.035	500	100	3.118-01	8.62E-04	207.87	14.418	
22 WF-22	1.666	346.8	2.364	162.6	1.442	0.035	500	50	3.026-01	8.07E-04	197.79	14.064	
23 WF-23	1.708		2.346	167.9		0.035	500	50	3.00E-01	8.09E 04	187.37	13.688	4 4444
24 WF-24	1,748	346.9			1.429	0.035	500	50	2.98E 01	8.03E-04	184.55	13.585	•
25 WF-25	1.796	363.6	2.296	170.4	1,441	0.035	500	50	3.04E 01	8.40E-04	189.04	13.749	1:4.
26 WF-26	1.837	376.6		173.2	1.375	0.035	500	50	2.86E-01	7.35E-04	170.37	13.053	
27 WF-27	1.873		2.502	177.5	1.328	0.035	500	50	2.68E-01	6.36E-04	155.91	12.487	Maria Ma
28 WF.28	1.909	384.4 397.8	2.417 2.465	184.2	1.301	0.035	500	50	2.67E.01	6.39E-04	151.38	12.303	
29 WF-30				189.6	1.257	0.035	500	50	2.568-01	5.81E-04	140.39	11.849	
30 WF-31	1.969 1.996	411.3	2.602	178.4	1.216	0.035	500	100	2.418-01	5.06E-04	128.99	11.357	
			2.533	184.7	1.196	0.035	500	50	2.40E 01	5.08E 04	126.03	11.226	
31 WF 32	2.02	407.6	2.366	208.1	1.227	0.035	500	50	2.55E-01	5.85E-04	135.59	11.644	
32 WF-34	2.082	435.9	2.506	198.9	1.147	0.035	500	100	2.31E-01	4.73E-04	116.27	10.783	
33 WF 35	2.11	452.2	2.554	199.6	1.106	0.035	500	50	2.21E-01	4.29E-04	107.37	10.362	11.
34 WF 36	2.129	442.3	2.479	199.2	1.13	0,035	500	50	2.29E-01	4.67E-04	113.36	10.647	
35 WF-37	2.156	456.4	2.519	202.9	1.095	0.035	500	50	2.21E-01	4.29E-04	105.87	10.289	
36 WF-38	2.178	462.3	2.586	197.5	1.082	0.035	500	50	2.15E 01	4.04E-04	102.32	10.115	
37 WF-40 38 WF-41	2.216 2.237	443.1	2.523	197.8	1.128	0.035	500	100	2.27E 01	4.54E-04	112.28	10.596	
39 WF-42	2.256	437.3 423.7	2.565	191	1.143	0.035	500	50	2.28E 01	4.56E-04	114.68	10.709	and the second
40 WF-43	2.274	404.3	2.581 2.58	184.1	1.18	0.035	₹500	50	2.358 01	4.82E-04	121.91	11.041	
41 WF 44	2.299	404.3	2.733	177.4 168.8	1.237	0.035	500	50	2.46E 01	5.30E-04	133.89	11.571	
42 WF-45	2.316	378.9		161.5	1.237 1.319	0.035 0.035	500	50	2.39E-01	4.90E-04	131.34	11.46	1
43 WF-46	2.343	374.9	2.728	156.8	1.334	0.035	500 500	50 50	2.59E 01 2.58E 01	5.85E 04	151.23	12.298	Salar Salar
44 WF-47	2.366	363.1	2.782	152.3	1.377	0.035	500	50	2.54E-01	5.72E-04 5.94E-04	152.85	12.363	a from the
45 WF-48	2.393	357.8	2.783	148.4	1.397	0.035	500	50	2.68E-01	6.11E-04	161.87	12.723	A CONTRACT
46 WF-50	2.439	325.8	2.835	139.9	1.53	0.035	500	100	2.90E-01	7.15E-04	166.65 198.52	12.909 14.09	
47 WF-51	2,465	311.5	2.841	135.8	1.605	0.035	500	50	3.04E-01	7.84E-04	218.36	14.777	8 18
48 WF-52	2.497	302.8	2.862	132.6	1.651	0.035	500	50	3.12E 01	8.22E-04	230.5	15.182	F 3.
49 WF-54	2.578	307.5	3.146	121	1.626	0.035	500	100	2.93E 01	7.03E-04	216.69	14.721	
50 WF-55	2.589	279.I	3.058	114.8	1.792	0.035	500	50	3.27E-01	8.86E-04	265.49	16.294	andre Salar
51 WF-56	2.632	279.5	3.258	112.2	1.789	0.035	500	50	3.17E 01	8.12E-04	259.23	16.101	1 - 1 - 1 - 1 - 1
52 WF-57	2.676	283	3.277	106.3	1.767	0.035	500	50	3.12E 01	7.86E-04	252.34	15.885	
53 WF-58	2.717	279.7	2.722	99.3	1.788	0.035	500	50	3.46E-01	1.03E-03	274.79	16.577	
54 WF-60	2.792	266.2	3.541	101.5	1.878	0.035	500	100	3.19E-01	8.01E-04	277.78	16.667	and the same
55 WF-61	2.829	265.2	3.69	90.3	1.885	0.035	500	50	3.14E 01	7.64E-04	276.19	16,619	
56 WF-62	2.869	266.1	3.69	88.3	1.879	0.035	500	50	3.13E-01	7.59E-04	274.33	16.563	rake in Art. Till de la servición de
57 WF-64 58 WF-65 Br.	2.955	278.4	3.877	86.8	1.796	0.035	500	100	2.91E 01	6.49E-04	246.53	15.701	
59 WF-66	2.945	241.3	3.126	87.6	2.072	0.035	500	50	3.74E-01	1.15E-03	352.55	18.776	
60 WF-67	3.001	244.2	3.788	79.6	2.048	0.035	500	50	3.36E-01	8.70E-04	322.93	17.97	
61 WF-68	3.044 2.887	243.9 172.7	3.77	78.9	2.05	0.035	500	50	3.37E-01	8.77E-04	324.1	18.003	
62 WF-70	2.944	156.8	4.522	58.4	2.895	0.035	500	50	4.35E-01	1.37E-03	608,64	24.671	100 100
63 WF-71	2.982	150.7	4.698	46.5	3.19	0.035	500	100	4.70E-01	1.58E-03	729.25	27.005	
64 WF-72	2.939		4.825	55	3.317	0.035	500	50	4.82E 01	1.65E-03	781.87	27.962	
65 WF-73 Br.	3.539	134.6	4.469	72.7	3.713	0.035	500	50	5.61E 01	2.30E-03	1005.02	31.702	
66 WF-74	3.638	261.9 321.5	3.022 4.35	89.5 81.6	1,909 1,555	0.035	500	50	3.51E-01	1.02E-03	302.76	17.4	
67 WF-75	3,589	251.7	4.002	83.2		0.035	. 500	50	2.38E-01	4.17E-04	177.93	13.339	
68 WF-76	3.609	240.4	4.114	73.8	1.987 2.08	0.035	500 500	50	3.17E-01	7.61E-04	298.43	17.275	and a second
69 WF-77	3.674	257.2	4,139	73.6	1.944	0.035	500	50 50	3.28E-01	8.04E-04	324.08	18.002	Section 2
70 WF-78	3.698	248.7	4.028	75.8	2.01	0.035	500	50	3.05E-01 3.20E-01	6.96E-04	282.5	16.808	Section 18
71 WF-80	3.786	256.4	3.906	93.6	1.95	0.035	500	100		7.73E-04	304.97	17.463	12. The Co
72 WF-81	3.819	253.5	4.125	96.7	1.973	0.035	500	50	3.15E 01 3.10E 01	7.58E-04	290	17.029	
73 WF-82	3.852	251.5	4.176	111.4	1.988	0.035	500	50	3.11E-01	7.21E-04 7.20E-04	291.27	17.067	the first of the
74 WF-84	3.901	235.9	4.181	67.7	2.119	0.035	500	100	3.31E 01		294.74	17.168	tang tilang
75 WF-85	3.948	239.1	4.081	75.7	2.091	0.035	500	50	3.31E 01	8.17E-04 8.21E-04	334.71 328.53	18.295 18.125	ments in the
76 WF-86	3.998		4.23	89.9	2.04	0.035	500	50 50	3.17E 01	7.45E-04	325.53 308.96	18.125 17.577	
77 WF-87	4.041		4.545	68.3	1.999	0.035	500	50	3.00E 01	6.50E-04	289.73	17.021	\$4 X 1 1 1 1 8
78 WF-88	4.062		4.305	65.6	2.071	0.035	500	50	3.19E-01	7.50E-04	316.53	17.791	7-17-5
79 WF-90	4.123	232.6	4.259	70.5	2.15	0.035	500	100	3.33E 01	8.20E-04	342.3	18.501	
80 WF 91	4.177	240.1	4.373	82.6	2.082	0.035	500	50	3.18E-01	7.435.04	318.31	17.841	$\mathcal{L}_{\mu} = \mathcal{L}_{\mu} = \mathbb{I}_{\mu} \times \mathbb{I}_{\mu}$
81 WF-92	4.161	214.4	4.607	64.2	2.332	0.035	500	50	3.47E 01	8.69E-04	392.48	19.811	
82 WF 93	4.265	245.2	4.541	67.5	2.039	0.035	500	50	3,06E-01	6.78E-04	301.47	17,363	San Arrangan
83 WF-94	4.337	274.3	4.78	75.4	1.823	0.035	500	50	2.66E 01	5.05E-04	236.71	15.385	NA ELECTRICAL
84 WF-96	4.41	293.1	4.144	90.1	1.706	0.035	500	100	2.68E-01	5.36E-04	217,52	14.749	
85 WF-97	4.459	318.8	3.84	92.4	1,568	0.035	500	50	2.56E-01	5.01E-04	188.55	13.731	18.49
86 WF 98	4.555	536.3	5.938	95.2	0.932	0.035	500		1.22E-01	9.90E-05	57.63	7.591	医囊性性
87 WF 100	4.404	238.3	2.645	91.3	2.098	0.03	500	50	4.12E-01	1.08E-03	280.79	16.757	
88 WF-100	7.881	147.7	1.829	80.7	3.386	0.035	500	0	8.00E-01	6.28E-03	1125.21	33.544 **	••

CASE NO.5			÷										
D-NAME	H .	· A	 R.,	. В	. V	N	· Q	DX	FROUD	· IE	TAU-0	. U.*	. ну
. WF.1-250 ! WF.1-100	0.25 0.691	411.2 405.8	1.232 1.488	334.1 278.3	1.459 1.479	0.035 0.035	600 600	0 250	4.20E 01 3.87E 01	1.98E-03 1.58E-03	238,47 229.91	15.442 15.163	
WF-0	0.839 0.907	374,4 363.7	1.533 2.107	259.1 183.8	1,603 1,65	0.035 0.035	600 600	100 50	4.14E-01 3.63E-01	1.78E-03 1.23E-03	267.47 254.87	16.354 15.965	
WF-2 WF-3	0.98	388.9	2,244	178.8	1.543	0.035	600	50	3.29E-01	9.938.04	218.31	14.775	٠
WF 5	1.01 1.146	356.4 453.1	2.3 3.155	165.9 154.1	1.684 1,324	0.035 0.035	600 600	50 100	3.55E-01 2.38E-01	1.14E 03 4.64E 04	257,82 143,56	16,057 11,982	
WF-6 WF-7	1.128 1.12	369.4 314,3	3.406 2.891	116.4 119.5	1.624 1.909	0.035 0.035	600 600	50 50	2.81E-01 3.59E-01	6.31E-04 1.08E-03	210,48 307,1	14.508 17.524	
WF-8 WF-10	1.169	310.1	2.969	116.1	1.935	0.035	600	50	3.59E-01	1.08E 03	312.77	17.685	
WF-11	1.294 1.356	333.9 355.7	3.001 3.111	123 129.5	1.797 1.687	0.035 0.035	600 600	100 50	3.31E-01 3.06E-01	9.14E-04 7.68E-04	268.78 234.04	16.395 15.298	1.
WF-12 WF-13	1.43 1.416	416.7 340.4	2.858 2.857	161.2 147.9	1.44 1.763	0.035 0.035	600 600	50 50	2.72E-01 3.33E-01	6.26E-04 9.39E-04	175.38 262.89	13.243 16.214	era in Pra
WF-14 WF-15 Br	1.374 1.55	263.2	2.802	139.3 151.9	2.28	0.035	600	50	4.35E-01	1.61E-03	442.6	21.038	
WF-16	1.586	348.3 335.7	2.886 2.727	146.2	1.722 1.787	0.035 0.035	600 600	50 50	3.24E-01 3.46E-01	8.85£ 04 1.03E 03	250.17 274.45	15.817 16.566	100
WF-17 WF-18	1.656 1.704	354.7 349.1	2.397 2.558	152.5 150.5	1.692 1.718	0.035 0.035	600 600	50 50	3.49E-01 3.43E-01	1.09E-03 1.03E-03	256.68 259.23	16.021 16.101	
WF-20 WF-21	1.813 1.864	363 372.6	2.668	148.3 155.4	. 1.653	0.035	600	100	3.23E-01	9.05E-04	236.55	15.38	
WF 22	1.915	387.4	2.698 2.577	163.2	1.61 1.549	0.035 0.035	600 600	50 50	3.13E-01 3.08E-01	8.45E-04 8.32E-04	223.55 210.07	14.952 14.494	
WF-23 WF-24	1.96 2	392.2 390	2.55 2.5	168.7 170.8	1.53 1.538	0.035 0.035	600 600	50 50	3.06E-01 3.11E-01	8.23E-04 8.55E-04	205.65 209.34	14.34 14.468	
WF-25 WF-26	2.051 2.094	407.8 422	2.568 2.696	174.3 177.8	1,471	0.035	600	50	2.93E-01	7.54E-04	189.76	13.775	
WF-27	2.131	432.1	2.615	185.6	1.422 1.389	0.035	600	50	2.77E-01 2.74E-01	6.60E-04 6.56E-04	174.35 168.02	13.204 12.962	
WF.28 WF-30	2.169 2.229	447.1 457.9	2.671 2.815	190.1 178.7	1.342 1.31	0.035	600 600	50 100	2.62E-01 2.50E-01	5.95E-04 5.29E-04	155.8 146	12.482 12.083	
WF-31 WF-32	2.259 2.285	466.6 463	2.753 2.572	185	1.286	0.035	600	50	2.48E-01	5.25E-04	141.65	11,902	e de la composition della comp
WF-34	2.348	488.9	2.718	208.6 199.5	1.296 1.227	0.035 0.035	600 600	50 100	2.58E-01 2.38E-01	5.84E-04 4.86E-04	147,15 129,57	12.131 11.383	
WF 35 WF 36	2.376 2.396	505.4 495.6	2.772 2.695	199.8 199.8	1.187 1.211	0.035 0.035	600	50 50	2.28E-01 2.36E-01	4.43E-04 4.79E-04	120.44 126.45	10.975 11.245	
WF 37 WF 38	2.424 2.446	510.9 515.8	2.737 2.783	203.5 201.3	1,174 1,163	0.035 0.035	600 600	50	2.27E-01	4.41E-04	118.39	10.881	
WF-40	2.486	496.5	2.739	: 198.4	1.208	0.035	600	50 100	2.23E 01 2.33E 01	4.23E 04 4.67E 04	115.48 125.31	10.746 11.194	200
WF-41 WF-42	2.507 2.526	488.8 473.3	2.782 2.799	191.5 184.3	1.228 1.268	0.035	600 600	50 50	2.35E 01 2.42E 01	4.72E-04 4.99E-04	128.63 136.87	11.341 11.699	
WF-43 WF-44	2.544 2.57	452.2 449.9	2.796 2.945	177.5 168.9	1.327 1.334	0.035 0.035	600 600	50 50	2.53E-01 2.48E-01	5.47E-04 5.16E-04	149.99 148.95	12.247	
WF-45	2.586	422.7	2.85	161.7	1.42	0.035	600	50	2.59E-01	6.11E-04	170.62	12.205 13.062	
WF-46 WF-47	2.614 2.637	417.4 404.5	2.938 2.983	157.1 152.6	1.437 1.483	0.035 0.035	600 600	50 50	2.68E-01 2.74E-01	6.01E-04 6.28E-04	173.18 183.46	13.16 13.545	
WF 48 WF 50	2.666 2.714	398.3 365.3	2.976 3.021	150.5 140.9	1.506 1.642	0.035	600 600	50 100	2.79E-01 3.02E-01	6.49E-04 7.57E-04	189.36 224.01	13.761 14.967	e při při Light a si
WF-51 WF-52	2.741 2.774	348.9 339.6	3.033 3.053	136.2 132.7	1.719 1.767	0.035	600	50	3.15E-01	8.25E-04	245.22	15.659	
WF-54	2.857	341.2	3.33	121.3	1,758	0.035 0.035	600 600	50 100	3.23E-01 3.08E-01	8.63E-04 7.62E-04	258.32 248.53	16.072 15.765	
WF-55 WF-56	2.868 2.914	311.2 311	3.248 3.427	115.1 112.5	1.928	0.035 0.035	600 600	50 50	3.42E-01 3.33E-01	9.47E-04 8.82E-04	301.4 296.28	17.361 17.213	
WF-57 WF-58	2.96 3.002	313.2 308	3.454 2.946	107.2 99.9	1.916 1.948	0.035	600 600	50 50	3.29E-01 3.63E-01	8.61E-04 1.10E-03	291.39 317.72	17.07 17.825	erik Talaya
WF 60	3.085	294.7	3.64	111.9	2.036	0.035	600	100	3.41E-01	9.07E 04	323.49	17.986	
WF-61 WF-62	3.124 3.168	291.6 292.2	3.851 3.864	92.4 90	2.058 2.053	0.035 0.035	600 600	50 50	3.35E-01 3.34E-01	8.59E-04 8.52E-04	324.29 322.48	18.008 17.958	
WF-64 WF-65 Br.	3.265 3.258	304.6 268.2	4.055 3.222	90.2 92.3	1,97 2,237	0.035 0.035	600 600	100 50	3.13E-01 3.98E-01	7.35E-04 1.29E-03	292.16 406.75	17.093 20.168	
WF 66 WF 67	3.315 3.364	268.7 268.6	3.971 3.946	81.4 81	2.233	0.035	600	-: 50	3.58E-01	9.71E-04	377.95	19.441	6 B 45 6 B 46
WF 68	3.124	180.8	4.732	59.7	2.234 3.318	0.035 0.035	600 600	50 50	3.59E 01 4.87E 01	9.80E-04 1.70E-03	379.07 787.37	28.06	1000
WF-70 WF-71	3.183 3.226	163.6 157.1	4.897 5.022	47.5 56.4	3.667 3.82	0.035 0.035	600 600	100 50	5.29E 01 5.45E 01	1.98E-03 2.08E-03	950.41 1023.06	30.829 31.985	in in San Light of
WF-72 WF-73 Br.	3.149 3.985	139.2 292.9	4.614 3.142	74.7 96.4	4.309 2.048	0.035 0.035	600 600	50 50	6.41E-01 3.69E-01	2.96E-03 1.12E-03	1338.9 343.88	36.591 18.544	
WF-74	4.094	357.5	4.692	85	1.678	0.035	600	50	2.48E-01	4.39E-04	202.03	14.214	100
WF 75 WF 76	4.038 4.057	282 269.3	4.256 4.348	91.8 78.7	2.128 2.228	0.035 0.035	600 600	50 50	3.30E-01 3.41E-01	8.04E-04 8.57E-04	335.47 365.21	18.316 19.11	
WF-77 WF-78	4.129 4.156	288.4 280.4	4.372 4.22	76.5 79.4	2.08	0.035 0.035	600 600	50 50	3.18E-01 3.33E-01	7.42E-04 8.22E-04	317.72 340.06	17,825 18,441	
WF-80 WF-81	4.253 4.28	290.9	4.099	107.1	2.063	0.035	600	100	3.26E-01	7.95E-04	319.16	17.865	
WF-82	4.316	283.2 281.3	4.372 4.408	112.8	2.118 2.133	0.035 0.035	600 600	50 50	3.24E-01 3.25E-01	7.69E-04 7.71E-04	329.51 333.02	18.152 18.249	
WF-84 WF-85	4.363 4.415	262.7 267.1	4.502 4.359	72 83	2.284 2.246	0.035 0.035	600 600	100 50	3.44E 01 3.44E 01	8,60E-04 8,68E-04	379.3 370.73	19.476 19.254	
WF 86 WF 87	4.466	272.2	4.498	103.6	2.204	0.035	600	50	3.32E-01	8.02E-04	353.37	18.798	
WF-88	4.513 4.533	277.4 268.2	4.858 4.656	73.5 69.6	2.163 2.237	0.035 0.035	600 600	50 50	3.14E-01 3.31E-01	6.97E-04 7.89E-04	331.71 359.87	18.213 18.97	
WF-90 WF-91	4.597 4.654	258.8 266.3	4.59 4.676	77.3 93.1	2.318 2.253	0.035 0.035	600 600	100 50	3.46E-01 3.33E-01	8.63E-04 7.96E-04	388.14 364.56	19.701 19.093	
WF-92	4.625	235,6	4,956	70.1	2.547	0.035	600	50	3.65E 01	9.40E-04	456.74	21,372	
WF-93 WF-94	4.746 4.829	270.4 302.9	4,955 5,142	73.6 82.1	2.219 1.981	0.035 0.035	600 600	50 50	3.19E-01 2.79E-01		346.8 272.97	18.623 16.522	
WF-96 WF-97	4.922 4.97	338.4 363.7	4.381 4.185	92.7 97.9	1.773 1.65	0.035 0.035	600 600	100 50	2.71E-01 2.58E-01	5.37E-04 4.94E-04	230.71 202.71	15.189 14.238	1 11 1
WF-98	5.07	581.7	6,403	97.2	1.032	0.035	500	50	1.30E-01	1.10E-04	68.79	8.294	
WF-99 WF-100	4.924 8.121	286.8 167.1	3,125 2.057	96.5 80.7	2.092 3.591	0.03 0.035	600	50 0	3.78E 01 8.00E 01	8.62E-04 6.04E-03	264.08 1217.58	16.251 34.894 *	**

CASE NU.6													
NO D-NAM	ME - H	Α	R	В	. y	. M		nv	FDOLID				
1 WF.1-250	0.25	411.2	1.232	334.1	1.702	N 0.035	Q 700	DX	FROUD	IE O COE OO	TAU 0	U.*	HANT
2 WF.1-100	0.811	439.3	1.605	279	1.593	0.035	700	0	4.90E 01	2.69E-03	324,58	18.016	
3 WF-0	0.966	407.1	1.649	259.1	1.719		700	250	4.02€-01	1.66E-03	260.35	16.135	
4 WF-1	1.03	386.4	2,22	183,9	1.812	0.035	700	100	4.28E-01	1.86E-03	300.35	17.331	
5 WF-2	1.113	412.6	2.372	178,8		0.035	700	50	3.88E-01	1.39€-03	302	17,378	
6 WF-3	1.146	379.1	2.422		1.696	0.035	700	. 50		1.12E-03	259.08	16.096	
7 WF-5	1.302	477,5		166,5	1.847	0.035	700	50	3.79E 01	1.28E-03	304.84	17.46	
8 WF-6	1.277		3.291	155,7	1,466	0.035	700	100	2.58E 01	5.38E-04	173.46	13.17	
9 WF-7	1.267	387.2	3.517	119.9	1.808	0.035	700	50	3.08E-01	7.49E-04	258.02	16.063	4
10 WF-8		332	3,008	120.1	2.109	. 0.035	700	50	3.88E-01	1.25E-03	369.79	19.23	
11 WF-10	1.324	328.2	3.097	116.9	2.133	0.035	700	50	3.87E-01	1.24E-03	374.77	19.359	
	1.471	355.6	3,149	123.3	1,968	0.035	700	100	3.54£ 01	1.03E-03	317.29	17.813	
12 WF-11	1,543	379.9	3.258	130,2	1.842	0.035	700	50	3.268-01	8.61E-04	274.91	16.58	
13 WF-12	1.631	449	3.034	161.3	1.559	0.035	700	50	2.86E-01	6.78E-04	201.55	14,197	
14 WF-13	1.615	370	2.983	150.7	1.892	0.035	700	50	3.50E-01	1.02E-03	298.44	17.275	4.
15 WF-14	1.57	290.2	2.835	152.3	2.412	0.035	700	50	4.58E-01	1.78E-03	493.47	22.214	11
16 WF-15 Br.	1.763	380.7	3.033	152.1	1.839	0.035	700	50	3.37E-01	9.43E-04	280.39	16.745	
17 WF-16	1.8	. : 367	2.893	146.2	1.907	0.035	700	50	3.58E-01	1.08E-03	306.47	17,506	
18 WF-17	1.875	388	2.592	152,7	1.804	0.035	700	50	3.58E 01	1.12E-03	284.41	16.864	e t
19 WF-18	1.924	382.3	2.746	150.8	1.831	0.035	700	50	3,53E 01	1.07E-03	287.46		.*
20 WF-20	2.037	396.2	2.861	148.6	1.767	0.035	700	100	3.34E 01	9.41E-04	263.95	16.955	
21 WF-21	2.091	408.1	2.889	155.7	1.715	0.035	700	50	3.22E 01	8.76E-04	248.05	16.246	
22 WF-22	2.146	425	2.782	163.4	1.647	0.035	700	50	3.156-01	8.49E-04		15.749	
23 WF-23	2.192	431.4	2.753	168.8	1.623	0.035	700	50	3.12E-01		231.52	15.216	
24 WF-24	2.234	429.9	2.704	170.8	1.628	0.035	700	50 50		8.36E-04	225.5	15.017	
25 WF-25	2.285	448.7	2.774	174.3	1.56	0.035	700		3.16E-01	8.62E-04	228.49	15.116	#1 + 10 + 10 to
26 WF-26	2.33	464	2.89	177.8	1.509	0.035	700	50	2.99E 01	7.65€-04	207.94	14.42	
27 WF-27	2.369	476.2	2.815	185.6	1.47	0.035		50	2.84E-01	6.77E-04	191.82	13.85	
28 WF.28	2.408	492.6	2.87	190.1	1.421	0.035	700 700	50	2,80E 01	6.66E-04	183.7	13.554	
29 WF-30	2.469		3.014	178.9	1.398	0.035	700	50	2.68E-01	6.07E-04	170.59	13.061	
30 WF-31	2.501	511.2	2.956	185.2				100	2.57E-01	5.50E-04	162.44	12.745	2000
31 WF-32	2.53	514	2.761		1.369	0.035	700	50	2.548-01	5.41E-04	156.82	12.523	
32 WF 34	2.592	537.6		209.1	1.362	0.035	700	50	2.62E-01	5.87E.04	158.73	12.599	dan sakara
33 WF-35	2.521		2.914	200	1.302	0.035	700	100	2.44E-01	4.99E-04	142.48	11.937	
34 WF-36		554.4	2.973	200.1	1.263	0.035	700	50	2.34E 01	4.57E-04	133.1	11.537	\$ 100 miles
	2.642	544.6	2.895	200.3	1.285	0.035	700	50	2.41E 01	4.90E-04	139.14	11.796	1
35 WF 37 36 WF 38	2.67	561	2.937	204	1.248	0.035	700	50	2.33E 01	4.54E-04	130.51	11.424	
	2.694	565.2	2.964	204.9	1.239	0.035	700	50	2.30E-01	4.41E-04	128.2	11.323	per training
37 WF-40	2.734	545.8	2.953	198.4	1.283	0.035	700	100	2.38E 01	4.76E-04	137.64	11.732	
38 WF-41	2.755	536.4	2.997	191.5	1.305	0.035	700	50	2.41E 01	4.83E-04	141.82	11.909	
39 WF-42	2.774	519.2	3.011	184.6	1.348	0.035	700	50	2.48E 01	5.12E-04	151.1	12.292	
40 WF-43	2.792	496.5	3.003	178	1.41	0.035	700	50	2.60E 01	5.62E-04	165.38	12.86	100
41 WF-44	2.818	492	3.149	169.4	1.423	0.035	700	50	2.56E 01	5.37E-04	165.82	12.877	44
42 WF-45	2.834	462.9	3.053	162.1	1.512	0.035	700	50	2.77E-01	6.33E-04	189,24	13.757	, e [
43 WF-46	2.852	456.5	3.139	157.6	1.533	0.035	700	50	2.76E 01	6.27E-04	192.76	13.884	Salar Barrell
44 WF-47	2.886	442.6	3.175	. 153.1	1.582	0.035	700	50	2.84E-01	6.57E-04	204.31	14.294	
45 WF 48	2.916	435.9	3.17	150,7	1.606	0.035	700	50	2.88E-01	6.78E-04	210.7	14.516	200
46 WF-50	2.965	400.5	3.198	141.6	1.748	0.035	700	100	3.12E-01	7.94E 04	248.88	15.776	Asset Control
47 WF-51	2.992	383.2	3.213	136.3	1.827	0.035	700	50	3.26E 01	8.62E-04	271.53	16.478	
48 WF-52	3.027	373.1	3.229	132.7	1.876	0.035	700	50	3.34E 01	9.04E-04	285.91	16.909	A 2 2 2
49 WF-54	3.112	372.1	3.498	121.7	1.881	0.035	700	100	3.21E 01	8.17E-04	279.94	16.731	1. 15 Table
50 WF-55	3.122	340.5	3.429	115.5	2.056	0.035	700	50	3.55E-01	1.00E-03	336.44	18.342	Maria Carlo
51 WF-56	3.17	339.8	3.581	112.7	2.06	0.035	700	50	3.48E 01	9.49E 04	332.98	18.248	Jan Brah
52 WF-57	3.218	340.8	3.616	107.9	2.054	0.035	700	50	3.45E 01	9.31E-04	330.02	18.167	
53 WF-58	3.262	334	3.178	100.2	2.096	0.035	700	50	3.76E-01	1.15E-03	358.6	18.937	
54 WF-60	3.351	320.5	3.73	121.3	2.184	0.035	700	100	3.61E 01	1.01E 03	369.25	19.216	
55 WF-61	3.392	315.5	3.996	94.3	2.218	0.035	700	50	3.558-01	9.518-04	372.33	19.296	part of star
56 WF-62	3,44	316	4.022	91.5	2.215	0.035	700	50	3.53E-01	9.40E-04	370.49	19.248	Arriva de Arriva
57 WF 64	3.546	328.4	4.218	93.2	2.132	0.035	700	100	3.32E-01	8.17E-04	337.66	18.376	
58 WF 65 Br.	3.542	292.7	3.31	96.5	2.392	0.035	700	50	4.20E-01	1.42E-03	460.76	21.465	
59 WF 66	3.601	291	4.137	83.1	2.405	0.035	700	50	3,78E-01	1.07E-03	432.62	20.8	
60 WF⋅67	3.655	291	4.106	82.9	2.405	0.035	700	50	3.79E-01	1.08E-03	433.71	20.826	
61 WF-68	3.317	187.4	4.903	60.7	3.734	0.035	700	50	5.39E 01	2.05E-03	985.45	31,392	
62 WF-70	3.378	169.2	5.059	48.3	4.136	0.035	700	100	5.87E 01	2.41E-03	1196.46	34.59	Art Mark
63 WF-71	3.425	162.2	5.183	57.6	4.315	0.035	700	50	6.05E 01	2.54E-03	1291.52	34,35	
64 WF-72	3.302	142.6	4.72	76.1	4.91	0.035	700	50	7.22E 01	3.73E-03		35.938	
65 WF-73 Br.	4.415	323	3.257	103.1	2.167	0.035	700	50	3.84E-01	1.19E-03	1725,13 380.44	41.535 19.505	
66 WF-74	4.534	392.2	5.022	88.2	1.785	0.035	700	50	2.548-01	4.54E-04			t +
67 WF-75	4.47	311.1	4.501	100	2.25	0.035	700	50	3.39E 01		223.34	14.945	1.5
68 WF-76	4.488	297.1	4.573	83.5	2.356	0.035	700	50		8.34E-04	368.02	19.184	
69 WF-77	4.567	318.4	4.596	78.8	2.198	0.035	700	50	3.52E-01 3.28E-01	8.96E-04	401.6	20.04	
70 WF 78	4.596	310.9	4,405	82.8	2.251	0.035	700	50		7.75E-04	348.97	18.681	4.5
71 WF-80	4.7	323.9	4.284	120	2.161	0.035	700		3.43E-01 3.34E-01	8.60E-04	371.23	19.267	
72 WF 81	4.722	311.7	4.608	128.2	2.246	0.035	700	100		8.22E-04	345.2	18.58	
73 WF-82	4.759	309.9	4.63	153.6	2.259			50	3.348-01	8.06E-04	363,95	19.078	
74 WF-84	4.803	288.2	4.808	76	2,429	0.035 0.035	700	50	3.358 01	8.10E-04	367.53	19.171	
75 WF-85	4.86	293.8	4.624	90	2.382		700	100	3.54E-01	8.91E-04	419.6	20,484	100
76 WF-86	4.911	298	4.754	116.5	2,349	0.035	700	50	3.54E-01	9.02E 04	408.92	20.222	15. 1 Turk 1
77 WF 87	4.961	303.3	5.155	78.4		0.035	700	50	3.44E-01	8.46E-04	394.05	19.851	
78 WF-88	4.981	293.6	4.989		2.308	0.035	700	50	3.258-01	7.33E-04	370.24	19.242	
79 WF-90	5.046	283.7		73.4	2.384	0.035	700	50	3.41E-01	8.17E-04	399.46	19.987	The second of
80 WF-91	5.105	203.7	4.903	83.7	2.467	0.035	700	100	3.56E-01	8.95E-04	430.16	20.74	and the second
81 WF-92	5.063	255.6	4.963	103.1	2.406	0.035	700	50	3.45E-01	8.37E-04	407.32	20.182	
82 WF-93			5.286	75.7	2.739	0.035	700	50	3.81E-01	9.98E-04	517	22.738	
83 WF-94	5.2 5.202	294.1	5.346	79.4	2.38	0.035	700	50	3.29E-01	7.42E-04	388.93	19.721	- 12
	5.292	329.8	5.483	88.5	2.123	0.035	700	50	2.90E-01	5.71E-04	306.76	17.514	
84 WF-96	5.406	381.1	4.603	95.2	1.837	0.035	700	100	2.74E-01	5.40E-04	243.54	15.606	
85 WF 97	5.452	406.1	4.51	103	1.724	0.035	700	50	2.59E-01	4.88E-04	215.88	14.693	
86 WF-98 87 WF-99	5,555	624.4	6.842	99.1	1.121	0.035	700	50	1.37E-01	1.19E-04	79.47	8.915	
88 WF-100	5.416 8.349	334.8	3.567	98.9	2.091	0.03	700	50	3.54E-01	7.22E 04	252.37	15.886	
50 III 100	0.343	185.5	2.272	80.7	3.774	0.035	700	0	8.00E-01	5.84E-03	1300.96	36.069 ***	

					٠.									
	NO D-NAME	Н	Α	R	8	٧.	N	Q	DX	FROUD	ΙE	TAU-0	U.*	146612
	1 WF.1-250	0.25	411.2	1.232	334.1	1.946	0.035	800	. 0				-	HANT
	2 WF.1-100	0.945	476.6	1.735	279.7	1.679				5.60E-01	3.51E-03	423.95	20.59	
	3 WF-0	1.098	441.4				0.035	800	250	4.07E-01	1.66E-03	281.52	16.779	
				1.775	259.1	1.812	0.035	800	100	4.35E-01	1.87E-03	325.69	18.047	
	4 WF-1	1.155	409.3	2.338	183.9	1.955	0.035	800	50	4.08E-01	1.51E-03	345.56	18.589	
	5 WF-2	1.247	436.4	2.501	178.8	1,833	0.035	800	- 50	3.70E-01	1.21E-03	297.18	17.239	
	6 WF-3	1.281	401.5	2.543	167.1	1.992	0.035	800	50	3.99E-01	1.40E-03	349.1	18,684	
	7 WF-5	1.454	501.3	3,425	157.3	1.596	0.035	800	100	2.76E-01	6.04E-04	202.83	14.242	
	8 WF-6	1.421	404.4	3.624	123.3	1.978	0.035	800	50	3,32E-01	8.61E-04	305.85	17.488	
	9 WF-7	1.409	349.1	3.121	120.7	2.292	0.035	800						•
	10 WF-8	1.473							50	4.14E-01	1.41E-03	431.49	20.772	
			345.6	3.22	117.8	2.315	0.035	800	50	4.12E-01	1.38E-03	435.53	20.869	
	11 WF-10	1.642	376.8	3,294	123,9	2.123	0.035	800	100	3.74E-01	1.13E-03	363.71	19.071	
	12 WF-11	1.723	403.5	3,396	131.8	1.982	0.035	800	50	3.44E-01	9.43E-04	313.9	17.717	
	13 WF-12	1.824	480.2	3.206	161.3	1.666	0.035	800	50	2.97E-01	7.19E-04	225.99	15.033	
	14 WF-13	1.806	399.2	3.109	153,5	2.004	0.035	800	50	3.63E-01	1.08E-03	330.26	18.173	
٠,	15 WF-14	1.764	319.7	2.935	152.3	2.502	0.035	800	50	4.67E-01	1.83E-03	525.02	22.913	
	16 WF-15 Br.	1.96	410.8	3,171	152.4	1.947	0.035	800	50	3.49E-01	9.98E-04	309.93	17.605	100
	17 WF-16	1.999	396.1	3.047	146.2	2.02	0.035	800	50 50					* +
										3.70€.01	1.13E-03	337.75	18.378	
	18 WF-17	2.078	419.1	2.774	152.9	1.909	0.035	800	50	3.668-01	1.15E-03	311.29	17.643	
	19 WF-18	2.129	413.1	2.927	150.8	1.937	0.035	800	50	3.62€-01	1.10€.03	314.75	17.741	•
	20 WF-20	2.244	427.1	3.05	148.6	1.873	0.035	800	100	3.43E-01	9.72€-04	290.46	. 17.043	-
	21 WF-21	2.302	441	3.074	155.7	1.814	0.035	800	50	3.318-01	9.02E-04	271.73	16.484	
."	22 WF-22	2.36	460	2.977	163.4	1.739	0.035	800	50	3.22E-01	8.65E-04	252.34	15.885	
	23 WF-23	2.408	467.9	2.945	168.8	1.71	0.035	800	50	3.18E-01	8.49E-04	244.88	15.649	1.0
	24 WF-24	2.451	466.9	2.894	170.8	1.713	0.035	800	50	3.22E-01	8.72E-04	247.3	15.726	
	25 WF-25	2.504	.486.7	2.966	174.3	1.644	0.035	800	50	3.058-01	7.77E-04	225.71	15.024	
	26 WF-26	2.549	503.1	3.071	177.8	1.59								
	27 WF-27	2.591					0.035	. 800	50	2.90E-01	6.94E-04	208.86	14.452	
			517.3	3.001	185.6	1.546	0.035	800	50	2.858-01	6.77E.04	199.02	14.108	
٠.	28 WF.28	2.631	534.9	3.056	190.1	1.495	0.035	800	50	2.73£-01	6.18E-04	185,03	13.603	4
	29 WF-30	2.693	540.6	3.199	179.1	1.48	0.035	800	100	2.648 01	5.69E-04	178,41	13.357	-1
	30 WF-31	2.726	552.9	3.145	185.4	1.447	0.035	800	50	2.61E-01	5.57E-04	171.55	13.098	1.
	31 WF-32	2.758	561.5	2.938	209.5	1.425	0.035	800	50	2.66E-01	5.91E-04	170.15	13.044	
	32 WF-34	2.82	583.1	3.096	200.5	1.372	0.035	800	100	2.49E-01	5.11E-04	155.02	12.451	
	33 WF-35	2.85	600.1	3.16	200.3	1.333	0.035	800	50	2.40E-01	4.69E-04	145.38	12.057	
	34 WF-36	2.871	590.4	3.082	200.9	1.355	0.035	800	50	2.47E 01	5.02E-04	151.46	12.307	
	35 WF-37	2.901	607.8	3.124	204.5	1.316	0.035	800	50					* * * * * * * * * * * * * * * * * * * *
	36 WF-38	2.925	611.2	3.133	208.2					2.38E-01	4.65E-04	142.27	11.928	100
						1.309	0.035	800	50	2.36E-01	4.58E-04	140.55	11.855	100
	37 WF-40	2.966	591.8	3.154	198.4	1.352	0.035	800	100	2.43E-01	4.84E-04	149.58	12.23	
	38 WF 41	2.987	580.8	3.198	191.5	1.377	0.035	800	50	2.46E-01	4.93E-04	154.62	12.434	
	39 WF-42	3.006	562	3.209	184.8	1.423	0.035	800	50	2.54E-01	5.24E-04	164.9	12.841	
	40 WF-43	3.024	537.8	3.196	178.4	1.487	0.035	800	50	2.66E-01	5.76E-04	180.32	13,428	5 4 5 4 4 7
	41 WF-44	3.049	531.2	3.339	169.8	1.506	0.035	800	50	2.63E-01	5.57E-04	182.19	13.498	
	42 WF-45	3.065	500.3	3.242	162.6	1.599	0.035	800	50	2.84E-01	6.53E-04	207.42	14.402	
	43 WF-46	3.093	493	3.327	158.1	1.623	0.035	800	50	2.84E-01	6,50E-04	211.79	14.553	
	44 WF-47	3,118	478.1	3.354	153.6	1.673	0.035	800	50	2.92E 01	6.83E-04	224.59	14.986	
	45 WF-48	3.149	471	3.351	151	1.699	0.035	800	50	2.96E-01	7.05E-04	231.47	15.214	
	46 WF-50	3.199	433.3	3,363	142.3	1.846	0.035	800	100	3.22E-01	8.29E-04	273.14	16.527	and the second
	47 WF-51	3.226	415	3,38	136.5	1.928	0.035	800	50	3.35E 01	8.97E 04	297.23	17.24	
	48 WF-52	3.262	404.3	3.392	132.7	1.979	0.035	800	50	3.43E 01	9.41E-04	312.89	17.689	100
	49 WF-54	3.349	400.7	3.654	122	1.997	0.035	800	100					100
٠.	50 WF-55	3.359	367.9	3,604	116					3.34E-01	8.68E-04	310.69	17.626	
	51 WF-56	3.408	366.5			2.175	0.035	800	50	3.66E-01	1.05E-03	370.27	19.242	
				3.724	112.9	2.183	0.035	800	50	3.61E-01	1.01E-03	369.07	19.211	
	52 WF-57	3.458	366.3	3.765	108.7	2.184	0.035	800	50	3.60E-01	9.97E-04	368.04	19.184	
	53 WF-58	3.502	358.1	3.392	100.5	2.234	0.035	800	50	3.88E-01	1.20E-03	398.74	19.969	
	54 WF-60	3.597	344.4	3.813	130	2.323	0.035	800	100	3.80E-01	1.11E-03	414.58	20,361	
	55 WF-61	3.639	337.7	4.131	96.1	2.369	0.035	800	50	3.72E-01	1.04E-03	419.89	20.491	** * * * * * * * * * * * * * * * * * * *
	56 WF 62	3.691	338	4.168	92.8	2,367	0.035	800	50	3.70E-01	1.02E-03	418.02	20,446	100
	57 WF-64	3.807	350.4	4.368	96.1	2.283	0.035	800	100	3.49E 01	8.94E-04	382.76	19.564	and the second
	58 WF 65 Br.	3.806	315.4	3.391	100.4	2.537	0.035	800	50	4.40E-01	1.55E-03	514.11	22.674	
٠.	59 WF-66	3.866	311.7	4.29	84.6	2.566	0.035	800	50	3,96E-01	1.16E-03	486.64	22.06	
	60 WF-67	3.924	311.9	4.254	84.7	2.565	0.035	800	50	3.97E-01	1.17E-03	487.59	22.081	age suffered to the
	61 WF-68	3.472	192.8	5.041	61.6	4.15	0.035	800	50	5.90E 01	2.44E 03	1205.67	34.723	
	62 WF-70	3.535	173.7	5.19	48.9	4.605	0.035	800	100	6.46E-01	2.89E 03	1470.41	38.346	
	63 WF-71	3.586	166.4	5.313	58.5									-
	64 WF-72	3.397	144.7			4.807	0.035	800	50	6.66E-01	3.05E-03	1589.92	39.874	
	65 WF-73 Br.			4.786	100.0	5.53	0.035	800	50	8.08E.01	4.65E-03	2178.73	46.677	1.0
		4.843	352.8	3.372	109.8	2.268	0.035	800	50	3.95E-01	1.25E-03	411,71	20.291	
	66 WF 74	4.968	426.5		91.4	1.876	0.035	800	50	2.59E-01	4.61E-04	241.53	15.541	
٠.	67 WF-75	4.898	340	4.744	108.3	2.353	0.035	800	50	3.45E-01	8.51E-04	395.47	19.886	
	68 WF-76	4.915	324.6	4.796	88.2	2.465	0.035	800	50	3.60E-01	9.20E-04	432.53	20.797	+ 1 -
ė,	69 WF-77	4.998	348	4.817	81.2	2.299	0.035	800	50	3.35E-01	7.96E-04	375.68	19.382	
Ċ.,	70 WF-78	5.029	340.9	4.586	86.3	2.346	0.035	800	50	3.50E-01	8.85E-04	397.82	19.946	
di.	71 WF-80	5.139	356.4	4.466	132.6	2.245	0.035	:: 800	100	3.39€-01	8.39E-04	367.35	19.166	•
1.	72 WF-81	5.155	339.6	4.839	143.3	2.356	0.035	800	50	3.42E-01	8.31E-04	393.96	19.848	
81.7	73 WF-82	5.193	337.9	4.847	173.8	2.368	0.035	800	50	3.44E-01	8.37E-04	397.73	19.943	100
	74 WF-84	5.234	313.1	5.107	. 80	2.555	0.035	800	100	3.618-01	9.09E-04	455.01	21.331	
	75 WF-85	5.294	319.9	4.883	96.8	2.501	0.035	800	50	3.62E-01	9.25E-04	442.54	21.037	- S - JF
	76 WF-86	5.345	323.1	5.003	129.2	2.476	0.035	800	50					
	77 WF 87	5.396	328.5	5.444	83.1	2.436				3.54E-01	8.78E-04	430.43	20,747	
	78 WF-88						0.035	800	50	3.33€-01	7.59E-04	404.81	20.12	
	79 WF-90	5.416	318.2	5.313	77.1	2.514	0.035	800	. 50	3.48E-01	8.35E-04	434.82	20.852	
		5.481	307.8	5.206	90	2.599	0.035	800	100	3.64E-01	9.17E-04	467.81	21.629	
	80 WF-91	5.541	314.9	5.241	112.7	2.541	0.035	800	50	3.55E-01	8.69E-04	446.09	21.121	
	81 WF-92	5.486	274.9	5.605	81.1	2.91	0.035	800	50	3.93E-01	1.04E-03	572.46	23.926	
	82 WF-93	5.639	317	5,723	84.9	2.524	0.035	800	50	3.37E-01	7.62E-04	427.42	20.674	
9	83 WF-94	5.739	355.7	5,812	94.6	2.249	0.035	800	50	2.98E-01	5.93E-04	337.77	18.378	- 1
	84 WF-96	5.871	422.2	4.817	97.5	1.895	0.035	800	100	2.76E 01	5.41E-04	255.27	15.977	147
× .	85 WF-97	5.916	446.9	4.824	108	1.79	0.035	800	50	2.60E-01	4.82E-04	227.57	15.089	4.2
100	86 WF-98	6.021	665.6	7.264	100.9	1.202	0.035	800	50	1.43E-01	1.26E-04	89.56	9.464	
	87 WF-99	5.889	382	3.985	101.1	2,094	0.03	800	50	3.35E-01	6.25E-04	243.96	15.619	
: 1	88 WF 100	8.567	203	2.477	80.7	3.94	0.035	800	0	8.00E-01	5.67E-03	1377,57	37.116	***
4.5					55.7		3.033			J.30L-01	5.070.03	13/1/3/	3/.110	
					at John Lin			14 10 10		are and				
	化二十二二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	S. 16. 3	20 miles	1000	August 1997		4.4	2.00	1000		 Control of the control of the control	4 1 1		and the second

		rymy							
NO	D-NAME.	H	Q	NO D-NAME	Н .	Q	NO D-NAME	Н	Q
		0.25	0		0.05				:
1 WF.1	-250	0.23		2 WF.1-100	0.25	0	3 WF-0	0.25	0
	1.1	0.25	200		0.323	200		0.368	200
		0.25 0.25	300 400		0.397	300	* *	0.478	300
		0.25	500		0.485 0.583	400 500		0.596 0.717	400 500
		0.25	600		0.691	600		0.839	600
		0.25	700		0.811	700		0.966	700
		0.25	800		0,945	800		1.098	800
		0.25	0		0.25	0		0.25	0
4 WF-1		7		5 WF-2	til til er i		6 WF-3		
		0.397 0.525	200 300		0.416	200		0.426	200
		0.655	400		0.559 0,704	300 400		0.575 0.726	300 400
		0.783	500		0.844	500		0.871	500
		0.907 1.03	600 700		0.98	600		1.01	600
		1.155	800		1.113 1.247	700 800		1.146 1.281	700 800
		100	100					7.201	000
7 WF-5		0.25	. 0	8 WF 6	0.25	0	A Umm	0.25	0
7 111 3		0.462	200	ONFO	0.461	200	9 WF-7	0.459	200
	1	0.639	300		0.636	300	the same of the	0.633	300
		0.815 0.984	400		0.809	400		0.803	400
	Jane 19	1.146	500 600		0.972 1.128	500 600		0.965 1.12	500 600
100	e tille	1.302	700		1.277	700		1.267	. 700
		1.454	800		1.421	800		1.409	800
12.00		0.25	0		0.25	0		0.25	0
10 WF-8	l sa jê bi li			11 WF-10	0.2.0	Ĭ	12 WF-11	0.25	U
		0.471	200		0.5	200		0.515	200
4.14		0.654 0.834	300 400	an english in	0.707 0.912	300 400		0.735 0.952	300 400
		1.005	500		1.108	500		1.16	500
	n Name e d	1.169 1.324	600		1.294	600		1.356	600
	11.	1.473	700 800		1.471 1.642	700 800	BASING AND SER	1.543 1.723	700 800
			tij Kiti		A 18			1.723	300
13 WF-1	, , , , .	0.25	0	14 WF-13	0.25	0		0.25	0
A- 111 A		0.533	200	. 14 πг·13	0.531	200	15 WF-14	0.525	200
	at Aria Aria da aria	0.767	300		0.762	300		0.745	300
5		0.998 1.22	400 500		0.99	400		0.958	400
		1.43	600		1.209 1.416	500 600		1.17 1,374	500 600
		1.631	700	and the second of the second	1.615	700		1.57	700
	tari i	1.824	800		1.806	800	the color above you	1.764	800
		0.25	0		0,25	0		0.25	0
16 WF 1	5 Br.	0.550	000	17 WF-16			18 WF-17	the section	100
	1.4	0.563 0.822	200 300		0.578 0.846	200 300		0.612 0.895	200 300
- :		1.081	400		1.111	400		1.169	400
	197	1.322 1.55	500 600		1.356	500		1.421	500
		1.763	700		1.586 1.8	600 700		1.656 1.875	600 700
·		1.96	800		1.999	800		2.078	800
	1.121 1.7	0.25	0		0.05				i Arri
19 WF-1	8	0.20		20 WF-20	0.25	0	21 WF-21	0.25	0
		0.64	200		0.701	200		0.727	200
•	1.1	0.933 1.213	300 400		1.017	300		1.052	300
		1.468	500		1.308 1.571	400 500		1.35 1.618	400 500
		1.704	600		1.813	600	replante ma	1.864	600
		1.924 2.129	700 . 800 -		2.037 2.244	700 800	and the second of the second o	2.091	700
	38.		and the second		L.244	300		2.302	800
22 WF-2	99	0.25	0	00.45.00	0,25	0		0.25	0
22 111.2	.4	0,755	200	23 WF-23	0.783	200	24 WF 24	0.81	200
		1.09	300	al Water	1.126	300		1.16	300
		1.394	400		1.433	400		1.471	400
		1.666 1.915	500 600		1.708 1.96	500 600		1.748	500
***		2.146	700		2.192	700		2.234	600 700
		2.36	800		2.408	800		2.451	800
		0.25	0		0.25	0		0.25	
25 WF-2	5	A BOTH	1.0	26 WF-26	0,20		27 WF-27	U.Z3	0
	u Talityi. Ta	0.848	200	The second of th	0.877	200		0.899	200
112		1,204 1,518	300 400		1.239 1.556	300 400		1.268 1,589	300 400
		1.796	500	e de la companya della companya de la companya della companya dell	1.837	500		1.873	500
* 4.4		2.051 2.285	600 700		2.094	600		2.131	600
		2.504	800		2.33 2.549	700 800		2.369 2.591	700 800
			·			100	机工造机 医二十二	£.33X	ΔŲŲ

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		0.25	0		0.25	0	•	0.25	0
	28 WF.28	0.924	200	29 WF-30	0.97	200	30 WF-31	0.988	200
		1.299 : 1.623 1.909	300 400 500		1.353	300 400		1,375 1,706	300 400
		2.169 2.408	600 700		1.969 2.229	600 600		1.996 2.259	500 600
		2.631	800		2.469 2.693	700 800		2.501 2.726	700 800
	31 WF-32	0.25	. 0	32 WF-34	0.25	0	33 WF-35	0.25	0
		1.002 1.392	200 300		1.052 1.449	200 300		1.073 1.474	200 300
		1,727 2,02	400 500		1.787 2.082	400		1.813 2.11	400 500
		2.285 2.53	600 700		2.348 2.592	600 700		2.376 2.621	600 700
		2.758	800		2.82	800		2.85	800
	34 WF-36	0.25	0	35 WF-37	0.25	0	36 WF-38	0.25	0
	i de la compania de La compania de la co	1.088 1.491	200 300		1.108 1.514	200 300		1.128 1.536	200 300
		1.832 2.129	400 500		1.857 2.156	400 500		1.878 2.178	400 500
		2.396 2.642	600 700		2.424 2.67	600 700		2.446 2.694	600 700
		2.871	800		2.901	800		2.925	800
	37 WF-40	0.25	0	38 WF-41	0.25	0	39 WF-42	0.25	0
		1.157 1.569	200 300		1.176 1.59	200 300		1.193 1.609	200 300
1		1.914 2.216	400 500		1.935 2.237	400 500		1.954 2.256	400 500
		2.486 2.734	600 700		2.507 2.755	600 700		2.526 2.774	600 700
٠.		2.966 0.25	800		2.987	800		3.006	. 800
	40 WF-43	1.209	200	41 WF 44	0.25 1.233	200	42 WF 45	0.25 1.245	200
		1.626 1.972	300 400		1.651 1.998	300 400		1.666 2.014	300 400
		2.274 2.544	500 600		2.299 2.57	500 600		2.316 2.586	500 600
		2.792 3.024	700 800		2.818 3.049	700 800		2.834 3.065	700 800
1	12 115 16	0.25	0		0.25	0		0.25	0
7.1	43 WF-46	1.268	200	44 WF-47	1.284	200	45 WF-48	1.306	200
		1.691 2.04 2.343	300 400		1.711 2.062	300 400		1.736 2.088	300 400
		2.614 2.862	500 600		2.366 2.637	500 600		2.393 2.666	500 600
		3.093	700 800		2.886 3.118	700 800		2.916 3.149	700 800
	46 WF 50	0.25	. 0	47 WF-51	0.25	. 0	48 WF-52	0.25	0
٠.		1.335 1.773	200 300		1.352 1.794	200 300	40 111 32	1.377 1.823	200 300
		2.131 2.439	400 500		2.155 2.465	400 500		2.185 2.497	400 500
1		2.714 2.965	600 700		2.741 2.992	600 700		2.774 3.027	600 700
		3.199	800		3.226	800	* * * * * * * * * * * * * * * * * * *	3.262	800
	49 WF-54	0.25	0	50 WF-55	0.25	0	51 WF-56	0.25	0
		1.432 1.889	200 300		1.44 1.899	200 300		1.475 1.935	200 300
		2.26 2.578	400 500		2.271 2.589	400 500		2.31 2.632	400 500
		2.857 3.112	600 700		2.868 3.122	500 700		2.914 3.17	600 700
		3.349	800		3.359	800		3.408	800
	52 WF-57	0,25 1,496	200	53 WF-58	0.25 1.532	200	54 WF-60	0.25	200
		1.97	300 400		2,008 2,391	200 300 400		1,585 2,069	200 300
		2.676	500 600		2.717 3.002	500 600		2,458 2,792 2,085	400 500
		3.218 3.458	700 800		3.262 3.502	700 800		3.085 3.351 3.597	600 700
				and the same of	0.002	300		3.3 7 /	800

	0.25	0		0,25	. 0	**	0.25	0
55 WF-61			56 WF-62			57 WF-64	1 675	
	1.604	200		1.628	200		1.675	200
	2.097 2.493	400 400		2.126 2.528	300 400		2.189 2.603	300 400
	2.829	500		2.869	500	•	2.955	500
*	3.124	600		3.168	600		3.265	600
	3,392	700		3.44	700		3.546	700
	3,639	800		3,691	. 800		3.807	800
	0.25	0		0.25	0		0.25	0
58 WF-65 Br		U	59 WF-66	0.23		60 WF-67	0.25	U
	1.673	200	55 III 45	: 1.702	200		1.725	200
	2.178	300	•	2.223	300	e de la companya de	2.255	300
	2.591	400		2.645	400		2.682	400
	2.945	500		3.001	500		3.044	500
•	3.258 3.542	600 700	100	3,315 3.601	600 700	<i>3</i>	3.364 3.655	600 700
	3.806	800		3.866	800		3.924	800
		-	**					
	0.25	: 0		. 0.25	0		0.25	0
61 WF-68	1.705	200	62 WF-70	1 76	200	63 WF-71	1 70	200
	1.725 2.221	300		1.76 2.265	200 300		1.78 2.293	200 300
	2.595	400		2.646	400		2.68	400.
2	2.887	500		2.944	500		2.982	500
	3.124	600		3.183	600		3.226	600
	3,317	700		3.378	700		3.425	700
•	3.472	800		3.535	800		3.586	800
100	0.25	0		0.25	0		0.25	0
64 WF-72			65 WF-73 Br.			66 WF-74		ş. Fil
	1.785	200		1.899	200		1.959	200
	2,289	300		2.53	300		2.604	300
	2.66 2.939	400 500	Territoria	3.064 3.539	400 500		3.15 3.638	400 500
	3.149	600		3.985	600		4.094	600
	3.302	700	4.4	4.415	700		4.534	700
	3.397	800		4.843	800		4.968	800
	0.25	0		0.25	0		0.25	0
67 WF-75		A Comment	68 WF-76	0.23		69 WF-77	V2	
1	1.937	200		1.955	200		1.99	200
	2.571	300		2.59	300		2.639	300
	3.11 3.589	400 500		3/129	400	47 11 / 12	3.187	400
	4,038	600		3.609 4.057	500 600		3.674 4.129	500 600
	4.47	700		4.488	700		4.567	700
	4.898	800	and the second	4.915	800	age of the	4.998	800
	0.05			0.05	_		0.05	•
70 WF-78	0.25	0	71 WF-80	0.25	0	72 WF-81	0.25	0
	2.007	200	71 111 00	2.065	200	72 III - 01	2.096	200
	2,654	300		2.722	300		2.765	300
	3.206	400		3.285	400		3.323	400
	3.698 4.156	500		3.786	500		3.819	500
	4.15b 4.596	700	3.3	4.253	700		4.28 4.722	700
	5.029	800		5.139	800		5.155	800
4					- 5 <u>-</u> E			ing the
73 WF-82	0.25	0	74 WF-84	0.25	0	75 WF-85	0.25	0
73 HF-02	2.12	200	74.HT-04	2.16	200	75 HF-05	2.193	200
	2.791	300		2.841	300		2.876	300
	3.352	400	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.403	400		3.444	400
	3.852	500		3.901	500	galanta k	3.948	500
	4.316 4.759	600 700	the contract	4.363 4.803	600 700		4,415 4.86	600 700
	5.193	800		5.234	800		5.294	800
		4			arv Arvana			S. S. H. H.
76 45 06	0.25	0	77 UF 07	0.25	0	70 45 00	0.25	0
76 WF 86	2.231	200	77 WF-87	2.26	200	78 WF-88	2,274	200
-	2.922	300	e i de la companya d	2.956	300	A STATE OF THE STA	2.974	300
	3.492	400		3,531	400		3.55	400
,	3.998	500		4.041	500		4.062	500
	4.466	600		4,513	600	a para la para la	4.533	600
	4.911 5.345	700 800		4.961 5.396	700 800		4.981 5.416	700 800
	0.040			3.330	~~		0.140	330
	0.25	0	00 W= 04	0.25	0	مم مشر ن	0.25	0
79 WF-90	2.326	200	80 WF-91	2.364	200	81 WF-92	2.376	200
4	3.028	300		3.074	200 300		3.08	300
	3,609	400		3.659	400		3.654	400
	4.123	500		4.177	500	er en	4.161	500
	4.597	500		4.654	600		4.625	600
	5.046 5.481	700 800		5.105 5.541	700 800	ing the second	5.063 5.486	700 800
	2,401	.,		2,541			J.700	500

	0.25	0		0.25	. 0		0.25	0
82 WF 93			83 WF-94			84 WF-96	•	
	2,427	200		2.465	200		2.496	200
	3.148	300		3.199	300		3.233	300
	3.741	400		3.802	400		3.853	400
	4.265	500		4.337	500		4.41	500
	4.746	600		4.829	600		4.922	600
	5.2	. 700		5.292	700	4	5.406	700
•	5.639	800	•	5,739	800		5.871	800
			and the second	2			4.4.4.4	
•	0.25	0		0.25	0	1.00	1.54	0
85 WF∙97			86 WF-98	.*	1	87 WF-99	4	
	2.526	200	1.5	2.602	200	. ".	2.654	200
	□ 3.28	300		3.367	300		3,191	300
•	3.905	400	and the state of	3.997	400	100	3.838	400
	4.459	500	A	4.555	500	N	4.404	500
	4.97	600		5.07	600		4,924	600
	5.452	700		5,555	700		5.416	700
	5.916	800		6.021	800		5.889	800
	4,43	0						
88 WF 100								
	7.016	200						
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