



Metro Traffic Data Inc.
 310 N. Irwin Street - Suite 20
 Hanford, CA 93230
 800-975-6938 Phone/Fax
 www.metrotrafficdata.com

Turning Movement Report

Prepared For: **Kamala Parks**
Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION Road 20 @ Abella Circle (West)

LATITUDE 37.963224°

COUNTY Contra Costa

LONGITUDE -122.341008°

COLLECTION DATE 11/16/2010

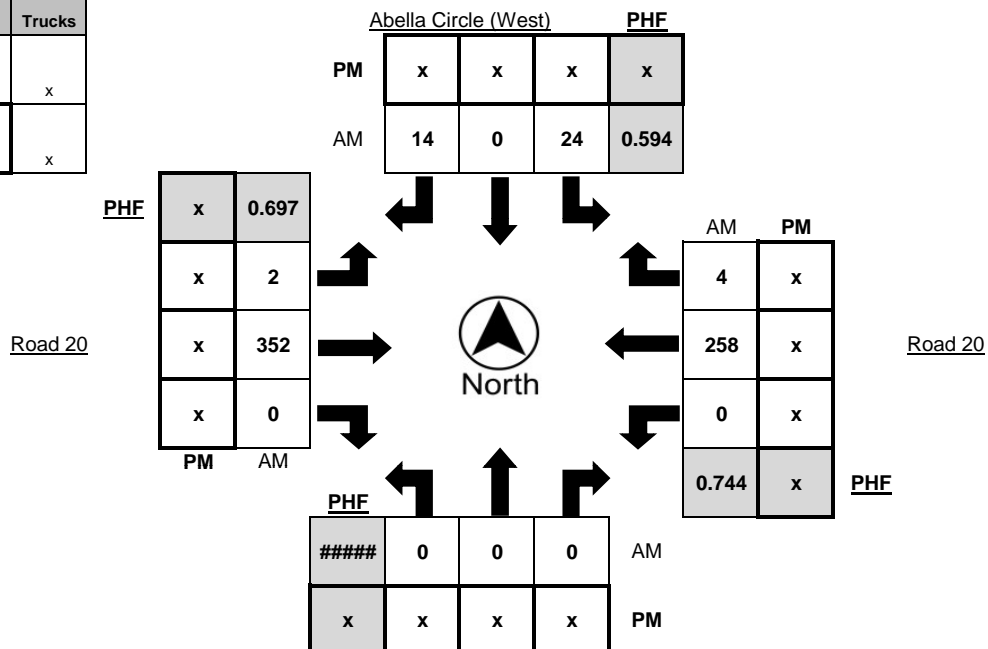
WEATHER Sunny and Clear

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:00 AM - 7:15 AM	0	0	0	x	11	0	6	x	2	22	0	x	0	23	0	x
7:15 AM - 7:30 AM	0	0	0	x	2	0	5	x	0	28	0	x	0	17	1	x
7:30 AM - 7:45 AM	0	0	0	x	10	0	7	x	0	36	0	x	0	30	0	x
7:45 AM - 8:00 AM	0	0	0	x	9	0	7	x	0	80	0	x	0	45	0	x
8:00 AM - 8:15 AM	0	0	0	x	7	0	3	x	0	105	0	x	0	74	2	x
8:15 AM - 8:30 AM	0	0	0	x	4	0	3	x	1	126	0	x	0	87	1	x
8:30 AM - 8:45 AM	0	0	0	x	4	0	1	x	1	41	0	x	0	52	1	x
8:45 AM - 9:00 AM	0	0	0	x	2	0	1	x	0	31	0	x	0	22	1	x
TOTAL	0	0	0	0	49	0	33	0	4	469	0	0	0	350	6	0

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:45 AM - 8:45 AM	0	0	0	x	24	0	14	x	2	352	0	x	0	258	4	x
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

	PHF	Trucks
AM	0.736	x
PM	x	x





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Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION Road 20 @ Abella Circle (West)

LATITUDE 37.963224°

COUNTY Contra Costa

LONGITUDE -122.341008°

COLLECTION DATE 11/16/2010

WEATHER Clear

Time	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:00 AM - 7:15 AM	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0
7:15 AM - 7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM - 7:45 AM	0	0	0	3	0	0	0	5	0	2	0	1	0	1	0	12
7:45 AM - 8:00 AM	0	0	0	0	0	0	0	25	0	1	0	0	0	0	0	1
8:00 AM - 8:15 AM	0	0	0	2	0	0	0	29	0	0	0	0	0	1	0	3
8:15 AM - 8:30 AM	0	0	0	1	0	0	0	37	0	0	0	0	0	0	0	2
8:30 AM - 8:45 AM	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0
8:45 AM - 9:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	0	0	0	8	0	0	0	103	0	3	0	3	0	2	0	20

Time	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:45 AM - 8:45 AM	0	0	0	3	0	0	0	97	0	1	0	1	0	1	0	6
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x



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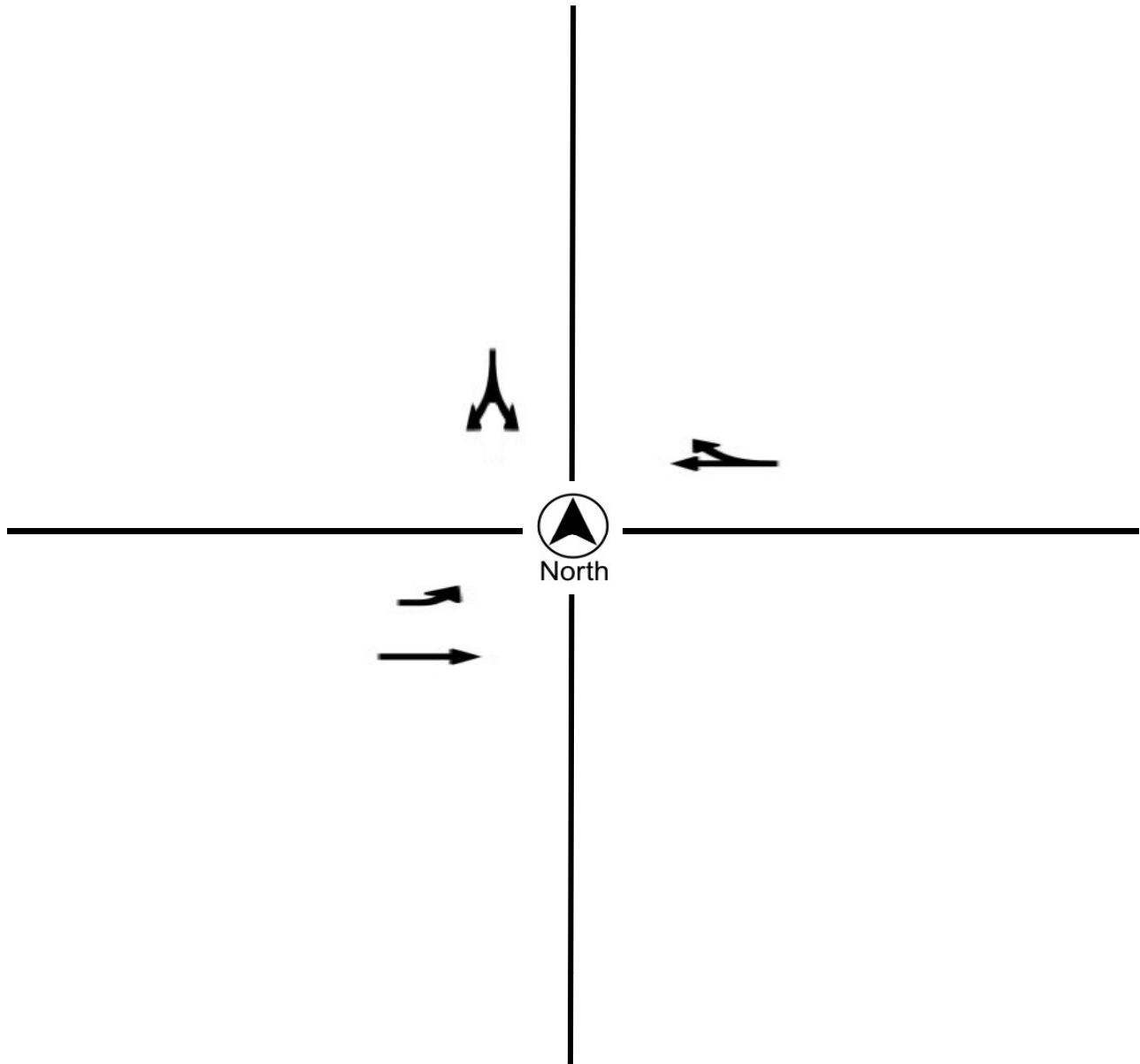
Prepared For:

Kamala Parks
Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION _____ Road 20 @ Abella Circle (West)
COUNTY _____ Contra Costa
COLLECTION DATE _____ 11/16/2010
CYCLE TIME _____ 123 Seconds

N/S STREET _____ Abella Circle (West)
E/W STREET _____ Road 20
WEATHER _____ Sunny and Clear
CONTROL TYPE _____ Signal

COMMENTS Eastbound left turns are protected.





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LOCATION Road 20 @ Abella Circle (East)

LATITUDE 37.963228°

COUNTY Contra Costa

LONGITUDE -122.338985°

COLLECTION DATE 12/1/2010

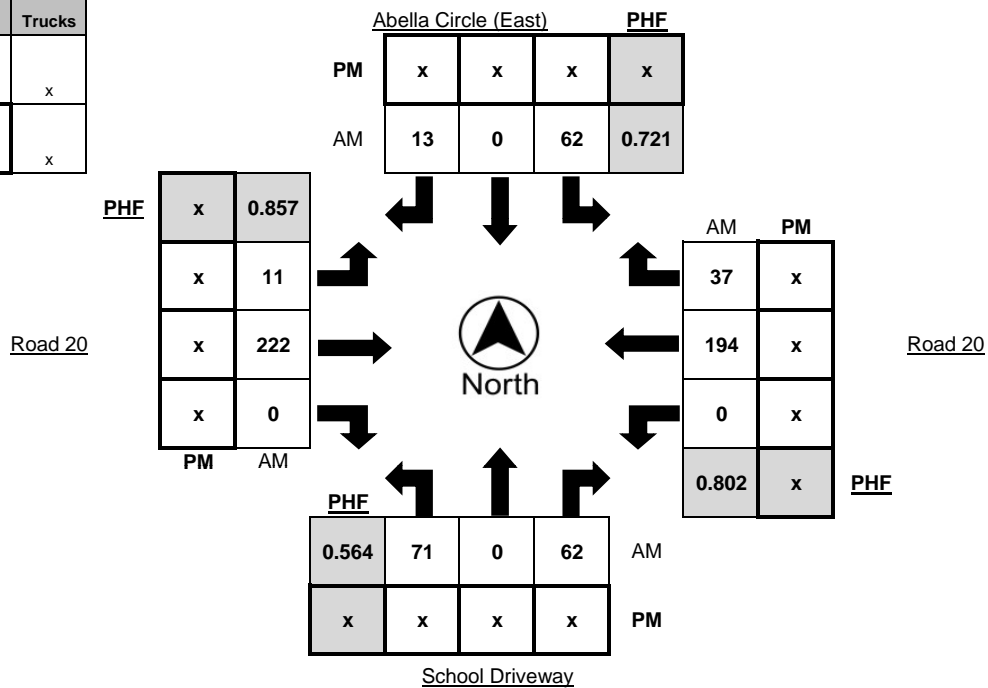
WEATHER Sunny and Clear

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:00 AM - 7:15 AM	0	0	1	x	9	0	0	x	0	31	0	x	0	13	3	x
7:15 AM - 7:30 AM	0	0	1	x	20	0	0	x	0	26	0	x	0	22	3	x
7:30 AM - 7:45 AM	2	0	5	x	24	0	0	x	0	30	0	x	0	22	8	x
7:45 AM - 8:00 AM	9	0	5	x	18	0	1	x	1	51	0	x	0	37	4	x
8:00 AM - 8:15 AM	16	0	15	x	11	0	7	x	4	64	0	x	0	47	4	x
8:15 AM - 8:30 AM	31	0	28	x	23	0	3	x	4	60	0	x	0	56	16	x
8:30 AM - 8:45 AM	15	0	14	x	10	0	2	x	2	47	0	x	0	54	13	x
8:45 AM - 9:00 AM	8	0	5	x	12	0	1	x	1	41	0	x	0	41	8	x
TOTAL	81	0	74	0	127	0	14	0	12	350	0	0	0	292	59	0

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:45 AM - 8:45 AM	71	0	62	x	62	0	13	x	11	222	0	x	0	194	37	x
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

	PHF	Trucks
AM	0.760	x
PM	x	x





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LOCATION Road 20 @ Abella Circle (East)

LATITUDE 37.963228°

COUNTY Contra Costa

LONGITUDE -122.338985°

COLLECTION DATE 12/1/2010

WEATHER Clear

Time	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:00 AM - 7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM - 7:30 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM - 7:45 AM	0	0	0	5	0	0	0	3	0	0	0	6	0	0	0	0
7:45 AM - 8:00 AM	0	0	0	5	0	0	0	14	0	1	0	28	0	0	0	1
8:00 AM - 8:15 AM	0	0	0	6	0	0	0	66	0	0	0	76	0	0	0	5
8:15 AM - 8:30 AM	0	0	0	0	0	0	0	60	0	1	0	143	0	0	0	11
8:30 AM - 8:45 AM	0	0	0	4	0	0	0	23	0	0	0	20	0	0	0	1
8:45 AM - 9:00 AM	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0
TOTAL	0	0	0	21	0	0	0	167	0	2	0	276	0	0	0	18

Time	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:45 AM - 8:45 AM	0	0	0	15	0	0	0	163	0	2	0	267	0	0	0	18
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x



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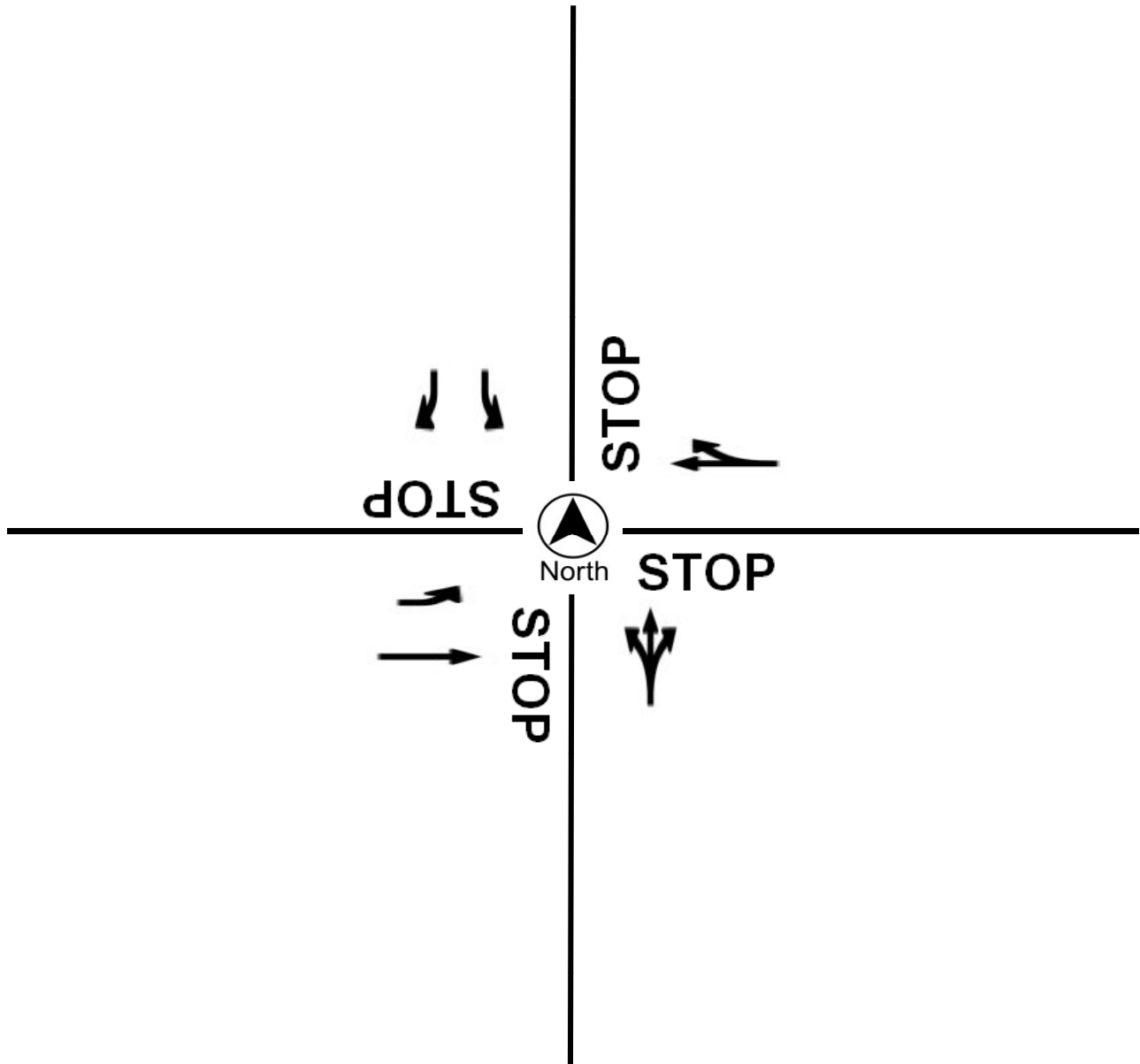
Prepared For:

Kamala Parks
Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION Road 20 @ Abella Circle (East)
COUNTY Contra Costa
COLLECTION DATE 12/1/2010
CYCLE TIME N/A

N/S STREET Abella Circle (East)
E/W STREET Road 20
WEATHER Sunny and Clear
CONTROL TYPE All-Way Stop

COMMENTS South leg (school driveway) is exit only.





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Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION Road 20 @ El Portal Drive

LATITUDE 37.963441°

COUNTY Contra Costa

LONGITUDE -122.337804°

COLLECTION DATE 11/16/2010

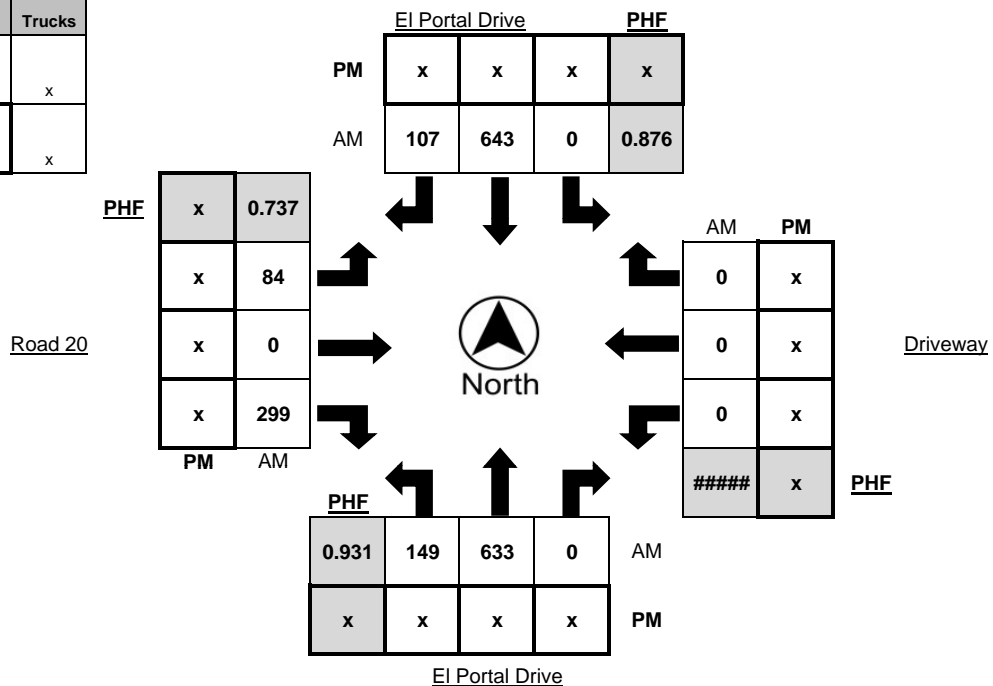
WEATHER Sunny and Clear

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:00 AM - 7:15 AM	24	78	1	x	0	120	0	x	3	0	49	x	0	0	0	x
7:15 AM - 7:30 AM	27	82	0	x	0	139	5	x	6	0	38	x	0	0	0	x
7:30 AM - 7:45 AM	24	104	0	x	0	178	12	x	7	0	74	x	0	0	0	x
7:45 AM - 8:00 AM	40	169	0	x	0	155	25	x	20	0	66	x	0	0	0	x
8:00 AM - 8:15 AM	42	168	0	x	0	174	40	x	31	0	99	x	0	0	0	x
8:15 AM - 8:30 AM	35	133	0	x	0	157	35	x	27	0	92	x	0	0	0	x
8:30 AM - 8:45 AM	32	163	0	x	0	157	7	x	6	0	42	x	0	0	0	x
8:45 AM - 9:00 AM	23	162	1	x	0	122	9	x	3	0	40	x	0	0	1	x
TOTAL	247	1059	2	x	0	1202	133	x	103	0	500	x	0	0	1	x

Time	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound				Southbound				Eastbound				Westbound			
	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks	Left	Thru	Right	Trucks
7:45 AM - 8:45 AM	149	633	0	x	0	643	107	x	84	0	299	x	0	0	0	x
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

	PHF	Trucks
AM	0.864	x
PM	x	x





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LOCATION Road 20 @ El Portal Drive

LATITUDE 37.963441°

COUNTY Contra Costa

LONGITUDE -122.337804°

COLLECTION DATE 11/16/2010

WEATHER Clear

Time	Northbound Bikes			Rd. 20 Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:00 AM - 7:15 AM	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	3
7:15 AM - 7:30 AM	0	0	0	1	0	0	0	3	0	0	1	3	0	0	0	3
7:30 AM - 7:45 AM	1	1	0	2	0	1	0	2	0	0	0	1	0	0	0	2
7:45 AM - 8:00 AM	0	0	0	10	0	0	0	15	0	0	0	3	0	0	0	4
8:00 AM - 8:15 AM	1	1	0	5	0	0	0	11	0	0	0	2	0	0	0	10
8:15 AM - 8:30 AM	0	1	0	5	0	0	0	2	0	0	0	0	0	0	0	3
8:30 AM - 8:45 AM	0	0	0	2	0	0	0	1	0	0	0	5	0	0	0	1
8:45 AM - 9:00 AM	0	0	0	3	0	1	0	2	0	0	0	1	0	0	0	3
TOTAL	2	3	0	29	0	2	0	36	0	0	1	16	0	0	0	29

Time	Northbound Bikes			N.Leg Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
4:00 PM - 4:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:15 PM - 4:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:30 PM - 4:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4:45 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:00 PM - 5:15 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:15 PM - 5:30 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:30 PM - 5:45 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5:45 PM - 6:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
TOTAL	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PEAK HOUR	Northbound Bikes			Rd. 20 Peds	Southbound Bikes			S.Leg Peds	Eastbound Bikes			E.Leg Peds	Westbound Bikes			W.Leg Peds
	Left	Thru	Right		Left	Thru	Right		Left	Thru	Right		Left	Thru	Right	
7:45 AM - 8:45 AM	1	2	0	22	0	0	0	29	0	0	0	10	0	0	0	18
4:00 PM - 5:00 PM	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x



Metro Traffic Data Inc.
 310 N. Irwin Street - Suite 20
 Hanford, CA 93230
 800-975-6938 Phone/Fax
 www.metrotrafficdata.com

Turning Movement Report

Prepared For:

Kamala Parks
Dowling Associates, Inc.
 180 Grand Avenue, Suite 250
 Oakland, CA 94612

LOCATION _____ Road 20 @ El Portal Drive _____
COUNTY _____ Contra Costa _____
COLLECTION DATE _____ 11/16/2010 _____
CYCLE TIME _____ 91 Seconds _____

N/S STREET _____ El Portal Drive _____
E/W STREET _____ Road 20 _____
WEATHER _____ Sunny and Clear _____
CONTROL TYPE _____ Signal _____

COMMENTS

