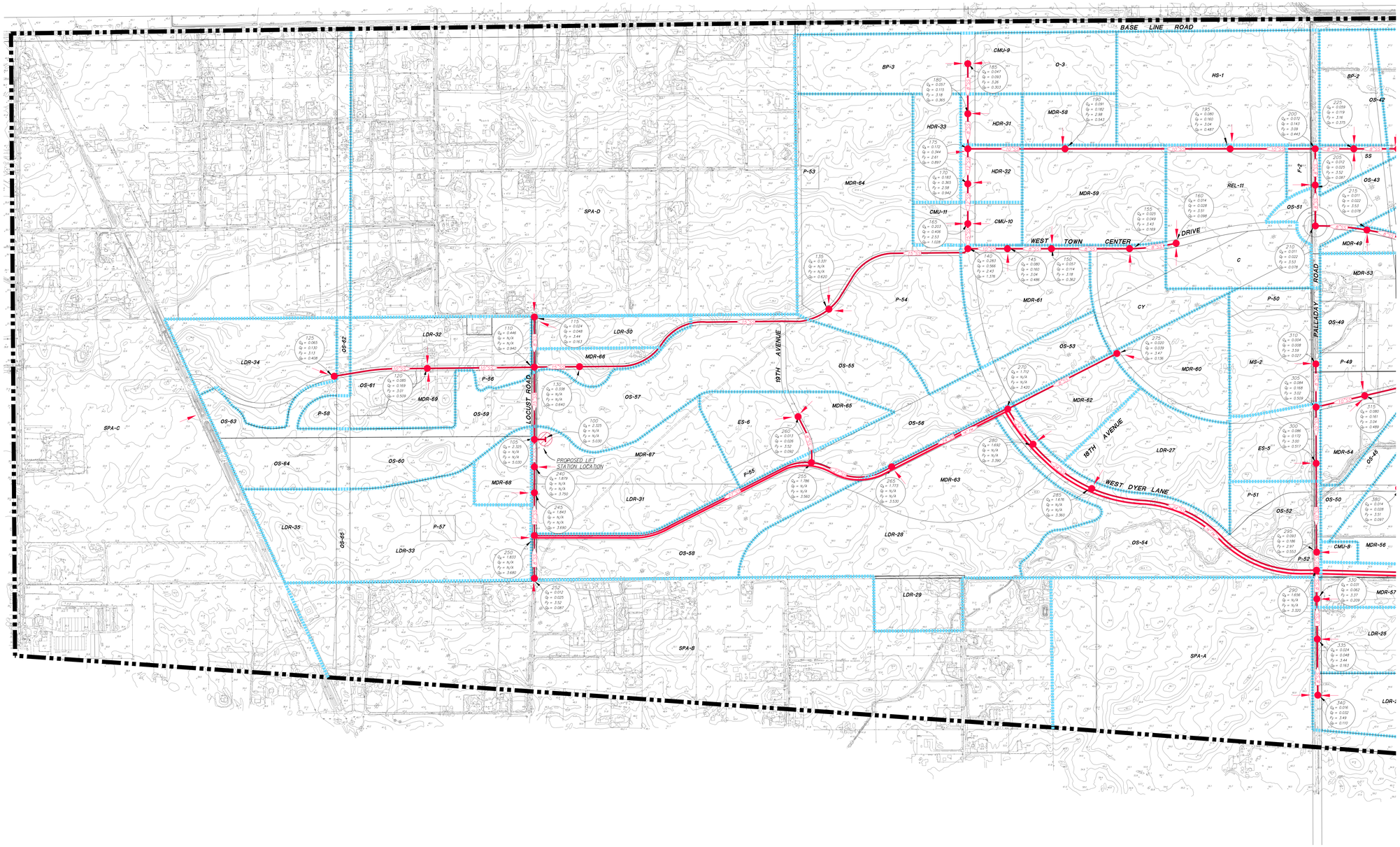
OVERSIZED EXHIBITS



NODE DATA

PARCEL	AREA	DU	TRIBUTARY TO NODE
BP-3	23.5	-	185
C	15.0	-	160
CY	16.0	-	155
CMU-9	6.0	76	185
CMU-10	4.5	57	165
CMU-11	4.5	56	165
ES-5	12.0	-	300
ES-6	12.0	-	260
F-2	2.0	-	205
HDR-31	5.5	83	180
HDR-32	5.5	82	170
HDR-33	12.0	180	175
HS-1	50.0	-	195
LDR-27	30.0	105	285
LDR-28	41.0	143	265
LDR-29	10.5	37	265
LDR-30	8.5	30	115
LDR-31	18.5	65	240
LDR-32	17.5	61	120
LDR-33	36.0	126	250
LDR-34	32.0	112	125
LDR-35	16.0	56	250
MDR-58	11.0	58	190
MDR-59	31.5	170	150
MDR-60	19.0	103	275
MDR-61	22.5	121	145
MDR-62	16.0	87	280
MDR-63	26.0	140	265
MDR-64	46.5	250	135
MDR-65	11.0	58	260
MDR-66	6.5	35	130
MDR-67	23.5	126	240
MDR-68	11.0	52	245
MDR-69	8.5	41	120
MS-2	22.5	-	310
O-3	15.0	-	185
P-54	33.0	-	135
REL-11	21.0	-	160
SPA-A	111.0	20	340
SPA-B	205.0	65	252
SPA-C	355.0	231	125
SPA-D	308.0	95	115
TOTALS	**1682.0**	**2921**	-

WASTEWATER FLOW BY NODE
WASTEWATER SHED A (WESTERLY PORTION)
PLACER VINEYARDS SPECIFIC PLAN

Scale: 1" = 300'

November 25, 2013

LEGEND

- SPECIFIC PLAN AREA BOUNDARY
- MAJOR SHED BOUNDARY
- MINOR SHED BOUNDARY
- LDR-12 — PARCEL ID AND LAND USE DESIGNATION
- NODE POINT
- FM — PROPOSED SEWER FORCE MAIN
- 12"SS — PROPOSED GRAVITY SEWER LINE
- 12"SS — EXISTING SEWER LINE
- SHED FLOW DIRECTION

NODE
Q_A = AVERAGE DRY WEATHER FLOW, (MGD)
Q_F = FACTORED FLOW, (MGD)
P_F = PEAKING FACTOR
Q_P = PEAK WET WEATHER FLOW, (MGD)

NOTES

1. LAND USE UNIT COUNTS AND ACREAGES ARE BASED ON THE PLACER VINEYARDS SPECIFIC PLAN LAND USE PLAN DATED JULY 2007.
2. PEAK WET WEATHER FLOWS AT NODES 105, 110, 130, 135, 240, 245, 250, 255, 265, 270, 280, 285, AND 290 HAVE BEEN CALCULATED BASED ON HYDRAULIC MODELING.
3. PIPES DOWN STREAM FROM NODES 105, 110, 130, 135, 240, 245, 250, 255, 265, 270, 280, 285, AND 290 HAVE BEEN SIZED BASED ON HYDRAULIC MODELING.
4. MINOR WASTEWATER SHED BOUNDARY ADJUSTMENTS WILL BE ALLOWED DURING FINAL UTILITY AND GRADING DESIGN, SUBJECT TO THE REVIEW AND APPROVAL OF PLACER COUNTY.

Table 1 - Pipeline Capacity Summary

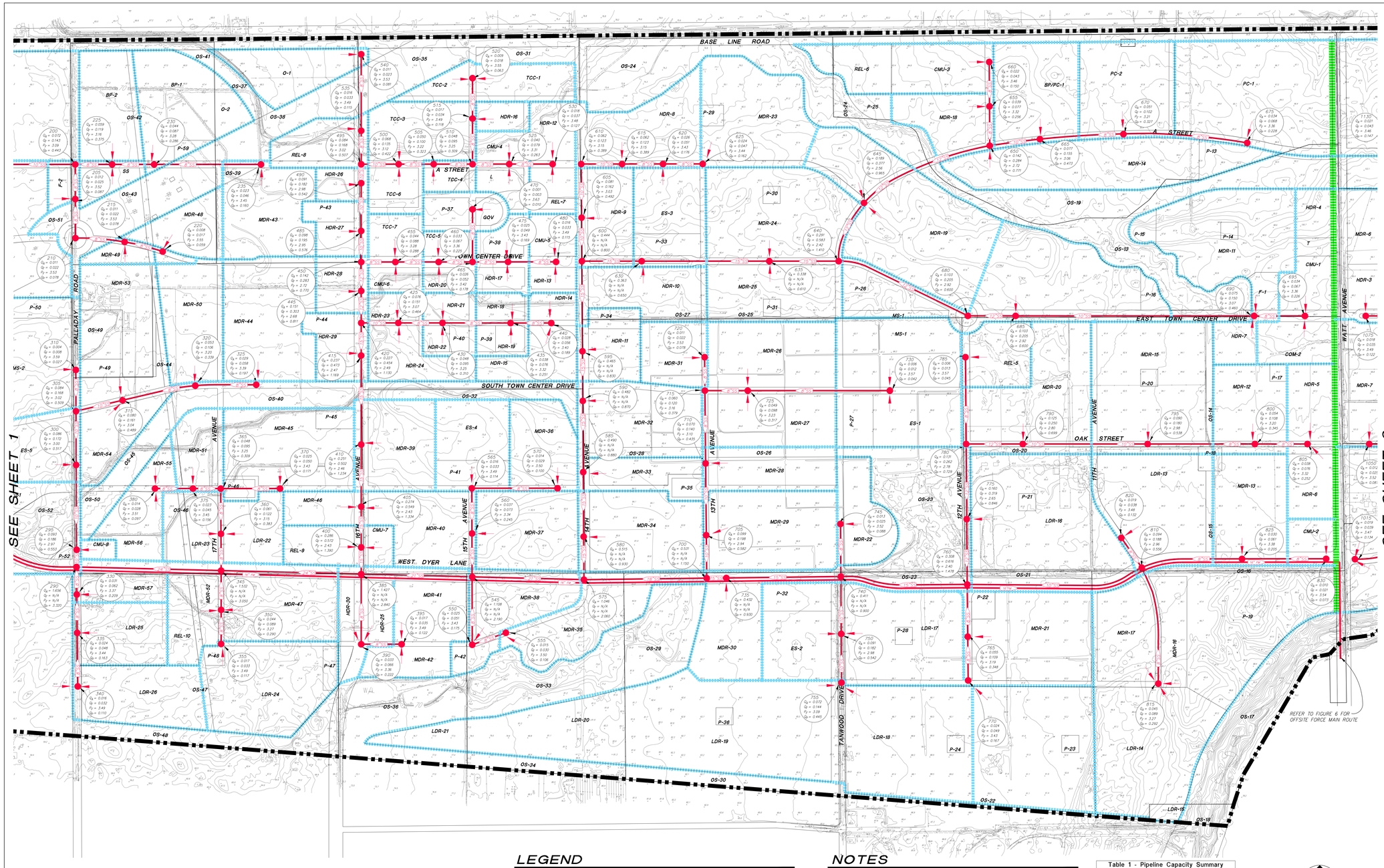
Pipe Slope	Minimum Slope	0.7 Full mgd	1.0 Full mgd
6"	0.005	0.21	0.25
8"	0.0035	0.38	0.46
10"	0.0025	0.59	0.70
12"	0.002	0.86	1.02
15"	0.0015	1.35	1.61
18"	0.0012	1.96	2.35
21"	0.001	2.71	3.23
24"	0.0008	3.46	4.13
27"	0.0007	4.43	5.29
30"	0.0006	5.43	6.49
33"	0.0006	7.00	8.37
36"	0.00045	7.65	9.14
42"	0.00037	10.47	12.50

= USED FOR PRELIMINARY DESIGN

NORTH
0 300 600

MACKAY & SOMPS
CIVIL ENGINEERS, INC.
CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
ROSEVILLE, CALIFORNIA

EXHIBIT SS-1
SHEET 1 OF 3



WASTEWATER FLOW BY NODE
WASTEWATER SHED A (EASTERLY PORTION)
PLACER VINEYARDS SPECIFIC PLAN

Scale: 1" = 300'

November 25, 2013

LEGEND

- SPECIFIC PLAN AREA BOUNDARY
- MAJOR SHED BOUNDARY
- MINOR SHED BOUNDARY
- LDR-12 — PARCEL ID AND LAND USE DESIGNATION
- NODE POINT
- 8" FM — PROPOSED SEWER FORCE MAIN
- 12" SS — PROPOSED GRAVITY SEWER LINE
- 12" SS — EXISTING SEWER LINE
- SHED FLOW DIRECTION

NODE
Q_A = AVERAGE DRY WEATHER FLOW, (MGD)
Q_F = FACTORED FLOW, (MGD)
P_F = PEAKING FACTOR
Q_P = PEAK WET WEATHER FLOW, (MGD)

NOTES

1. LAND USE UNIT COUNTS AND ACREAGES ARE BASED ON THE PLACER VINEYARDS SPECIFIC PLAN LAND USE PLAN DATED JULY 2007.
2. PEAK WET WEATHER FLOWS AT NODES 290, 345, 385, 545, 575, 580, 585, 590, 595, 600, 630, 635, 700, 735, AND 740 HAVE BEEN CALCULATED BASED ON HYDRAULIC MODELING.
3. PIPES DOWN STREAM FROM NODES 290, 345, 385, 545, 575, 580, 585, 590, 595, 600, 630, 635, 700, 735, AND 740 HAVE BEEN SIZED BASED ON HYDRAULIC MODELING.
4. MINOR WASTEWATER SHED BOUNDARY ADJUSTMENTS WILL BE ALLOWED DURING FINAL UTILITY AND GRADING DESIGN, SUBJECT TO THE REVIEW AND APPROVAL OF PLACER COUNTY.

Table 1 - Pipeline Capacity Summary

Pipe Slope	Minimum Slope	0.7 Full mgd	1.0 Full mgd
6"	0.005	0.21	0.25
8"	0.0035	0.38	0.46
10"	0.0025	0.59	0.70
12"	0.002	0.86	1.02
15"	0.0015	1.35	1.61
18"	0.0012	1.96	2.35
21"	0.001	2.71	3.23
24"	0.0008	3.46	4.13
27"	0.0007	4.43	5.29
30"	0.0006	5.43	6.49
33"	0.0006	7.00	8.37
36"	0.00045	7.65	9.14
42"	0.00037	10.47	12.50

= USED FOR PRELIMINARY DESIGN

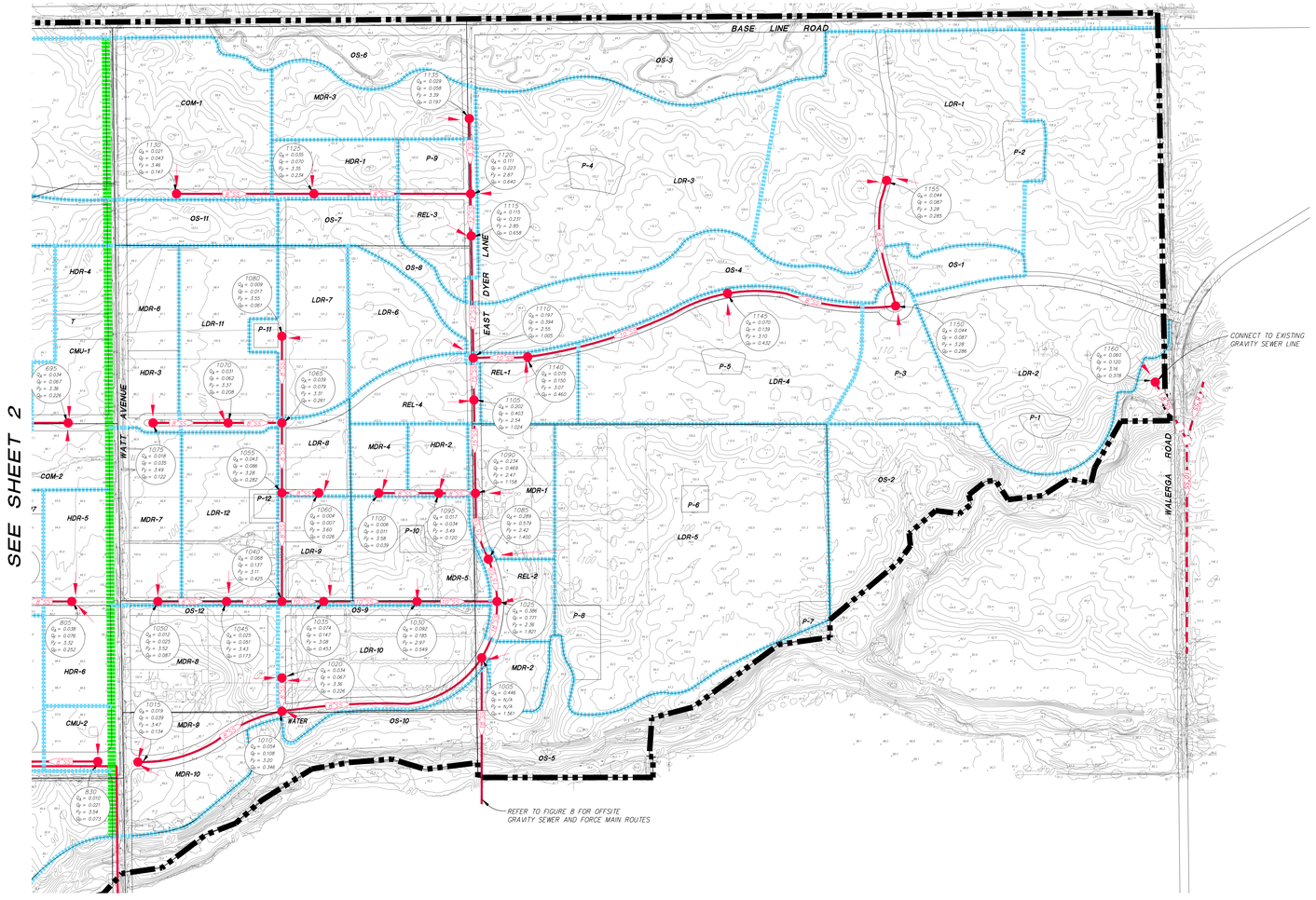
NORTH
0 300 600

MacKay & Somps
CIVIL ENGINEERS, INC.
CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
ROSEVILLE, CALIFORNIA

NODE DATA

PARCEL	AREA	DU	TRIBUTARY TO NODE
BP-1	20	-	230
BP-2	15	-	225
BP/PC-1	31.0		665
CMU-1	6.5	82	695
CMU-2	4.5	57	830
CMU-3	7.0	88	660
CMU-4	4.0	50	525
CMU-5	5.0	63	480
CMU-6	2.5	31	455
CMU-7	3.0	38	400
CMU-8	3.0	38	295
COM-2	9.0	-	695
ES-1	12.0	-	730
ES-2	12.0	-	750
ES-3	12.0	-	620
ES-4	12.0	-	565
F-1	2.5	-	690
GOV	2.0	-	470
HDR-4	5.0	75	695
HDR-5	10.5	157	805
HDR-6	9.0	135	805
HDR-7	5.5	83	690
HDR-8	18.5	278	615
HDR-9	10.0	150	605
HDR-10	13.0	195	630
HDR-11	10.5	158	595
HDR-12	7.5	115	530
HDR-13	2.5	38	480
HDR-14	3.5	54	440
HDR-15	10.5	160	440
HDR-16	4.0	61	515
HDR-17	2.5	38	475
HDR-18	3.5	54	435
HDR-19	1.5	23	435
HDR-20	2.5	38	460
HDR-21	3.5	54	430
HDR-22	1.5	22	430
HDR-23	3.5	54	425
HDR-24	10.5	160	425
HDR-25	6.0	90	390
HDR-26	3.5	53	490
HDR-27	3.5	52	485
HDR-28	5.0	75	445
HDR-29	5.0	75	415
HDR-30	2.0	30	390
L	5.0	-	525
LDR-13	28.5	100	820
LDR-14	32.0	112	815
LDR-15	1.0	4	815
LDR-16	43.0	150	775
LDR-17	25.0	89	750
LDR-18 (POR)	36.0	128	770
LDR-18 (POR)	36.0	128	755
LDR-19	43.5	154	755
LDR-20	23.0	81	755
LDR-21	4.5	16	755
LDR-22	10.5	37	360
LDR-23	9.5	33	360
LDR-24	25.0	88	355
LDR-25	12.0	42	335
LDR-26	18.0	63	340
MDR-11	28.5	152	690
MDR-12	16.0	84	800
MDR-13	20.0	105	825
MDR-14	23.0	136	660
MDR-15	36.5	191	795
MDR-16	9.0	41	815
MDR-17	16.5	76	815
MDR-18	15.0	89	655
MDR-19 (POR)	26.8	146	685
MDR-19 (POR)	26.7	146	645
MDR-20	29.0	182	790
MDR-21	25.0	159	765
MDR-22	12.0	66	745
MDR-23 (POR)	24.0	124	625
MDR-23 (POR)	18.0	100	645
MDR-24	29.5	158	635
MDR-25	16.0	86	635
MDR-26	22.5	125	725
MDR-27	18.5	102	725
MDR-28	9.5	53	710
MDR-29	27.5	152	705
MDR-30	17.0	108	735
MDR-31	10.5	58	720
MDR-32	16.5	91	590
MDR-33	7.5	42	585
MDR-34	23.5	130	580
MDR-35	15.0	80	555
MDR-36	14.0	75	570
MDR-37	20.0	107	560
MDR-38	10.0	54	550
MDR-39	14.0	75	410
MDR-40	16.0	85	405
MDR-41	8.0	51	395
MDR-42	6.5	41	395
MDR-43	20.0	122	235
MDR-44	28.0	153	325
MDR-45	24.0	131	370
MDR-46	7.0	39	405
MDR-47	17.0	107	350
MDR-48	9.0	44	220
MDR-49	3.0	14	215
MDR-50	23.0	126	320
MDR-51	8.5	46	375
MDR-52	3.0	19	350
MDR-53	14.0	73	315
MDR-54	13.0	71	315
MDR-55	3.5	18	380
MDR-56	10.0	55	380
MDR-57	7.5	38	330
MS-1	22.5	-	730
O-1	13.5	-	540
O-2	4.0	-	230
P-19	32.0	-	815
P-38	5.0	-	475
PC-1	40.0	-	675
PC-2	19.7	-	670
REL-5	9.5	-	785
REL-6	8.5	-	660
REL-7	5.0	-	530
REL-8	7.5	-	535
REL-9	7.0	-	400
REL-10	5.5	-	350
SS	4.5	-	225
T	2.0	-	695
TCC-1	7.5	-	520
TCC-2	3.0	-	520
TCC-3	15.0	-	500
TCC-4	3.0	-	505
TCC-5	3.0	-	460
TCC-6	5.5	-	500
TCC-7	5.5	-	455
TOTALS	1726.7	8675	-

EXHIBIT SS-1
SHEET 2 OF 3



NODE DATA

PARCEL	AREA	DU	TRIBUTARY TO NODE
COM-1	25.0	-	1130
HDR-1	7.0	105	1125
HDR-2	6.0	90	1095
HDR-3	5.0	75	1075
LDR-1 (POR)	36.5	129	1155
LDR-1 (POR)	48.5	171	1160
LDR-2	41.0	144	1160
LDR-3 (POR)	71.0	250	1120
LDR-3 (POR)	28.0	100	1155
LDR-4	39.0	137	1145
LDR-5	82.5	289	1085
LDR-6	10.0	35	1110
LDR-7	13.0	45	1080
LDR-8	5.5	19	1060
LDR-9	8.0	28	1035
LDR-10	21.0	74	1020
LDR-11	20.0	70	1070
LDR-12	19.5	68	1045
MDR-1	15.0	82	1090
MDR-2	6.0	33	1005
MDR-3	26.5	153	1135
MDR-4	4.0	29	1100
MDR-5	14.0	99	1030
MDR-6	9.5	41	1075
MDR-7	15.0	65	1050
MDR-8	20.0	103	1020
MDR-9	5.0	35	1015
MDR-10	9.5	67	1015
P-3	12.0	-	1150
REL-1	8.0	-	1140
REL-2	6.0	-	1025
REL-3	6.0	-	1115
REL-4	7.0	-	1105
WATER	1.5	-	1010
TOTALS	**651.5**	**2536**	-

WASTEWATER FLOW BY NODE
WASTEWATER SHED B
PLACER VINEYARDS SPECIFIC PLAN

Scale: 1" = 300'

November 25, 2013

LEGEND

- SPECIFIC PLAN AREA BOUNDARY
- MAJOR SHED BOUNDARY
- MINOR SHED BOUNDARY
- LDR-12 — PARCEL ID AND LAND USE DESIGNATION
- NODE POINT
- 4"Ø — PROPOSED SEWER FORCE MAIN
- 12"SS — PROPOSED GRAVITY SEWER LINE
- 12"SS — EXISTING SEWER LINE
- SHED FLOW DIRECTION

NODE
Q_A = AVERAGE DRY WEATHER FLOW, (MGD)
Q_F = FACTORED FLOW, (MGD)
P_F = PEAKING FACTOR
Q_D = PEAK WET WEATHER FLOW, (MGD)

NOTES

1. LAND USE UNIT COUNTS AND ACREAGES ARE BASED ON THE PLACER VINEYARDS SPECIFIC PLAN LAND USE PLAN DATED JULY 2007.
2. THE PEAK WET WEATHER FLOW AT NODE 1005 HAS BEEN CALCULATED BASED ON HYDRAULIC MODELING.
3. THE PIPE DOWN STREAM FROM NODE 1005 HAS BEEN SIZED BASED ON HYDRAULIC MODELING.
4. MINOR WASTEWATER SHED BOUNDARY ADJUSTMENTS WILL BE ALLOWED DURING FINAL UTILITY AND GRADING DESIGN, SUBJECT TO THE REVIEW AND APPROVAL OF PLACER COUNTY.

Table 1 - Pipeline Capacity Summary

Pipe Slope	Minimum Slope	0.7 Full mgd	1.0 Full mgd
6"	0.005	0.21	0.25
8"	0.0035	0.38	0.46
10"	0.0025	0.59	0.70
12"	0.002	0.86	1.02
15"	0.0015	1.35	1.61
18"	0.0012	1.96	2.35
21"	0.001	2.71	3.23
24"	0.0008	3.46	4.13
27"	0.0007	4.43	5.29
30"	0.0006	5.43	6.49
33"	0.0006	7.00	8.37
36"	0.00045	7.65	9.14
42"	0.00037	10.47	12.50

= USED FOR PRELIMINARY DESIGN

NORTH
0 300 600

MACKAY & SOMPS
CIVIL ENGINEERING, INC.
CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
ROSEVILLE, CALIFORNIA

EXHIBIT SS-1
SHEET 3 OF 3

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