CALCULATED GJN | CHECKED LDH

FOR GUARDRAIL DETAILS SEE SHEETS (54-58)

GUARDRAIL AND RELATED QUANTITIES

SHEET NO.	REFERENCE NO.	EXISTING LOCATIONS FROM	EXISTING LOCATIONS TO	PROPOSED LOCATIONS FROM	PROPOSED LOCATIONS TO	DIRECTION	SIDE	LENGTH OF NEED (FOR FIXED OBJECTS) L.F.		202 GUARDRAIL REMOVED L.F.	606 GUARDRAIL, TYPE 5 L.F.	606 GUARDRAIL, TYPE 5A L.F.		606 ANCHOR ASSEMBLY, TYPE A EACH	606 ANCHOR ASSEMBLY, TYPE E-98 EACH	606 ANCHOR ASSEMBLY, TYPE T EACH			606 BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH	606 BRIDGE TERMINAL ASSEMBLY, TYPE 3 EACH	606 GUARDRAIL; MISC.: CABLE MEDIAN BARRIER ANCHORAGE UNIT EACH		622 CONCRETE BARRIER, TYPE D L.F.	517 RAILING; MISC.: TBR RAILING L.F.	203 LINEAR GRADING, METHOD A STA.	448 ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I, 64 (UNDER GUARDRAIL) C.Y.	626 BARRIER REFLECTOR, TYPE A L.F.	626 BARRIER REFLECTOR, TYPE B L.F.
30	GR-1	226+15.00	227+65.00	225+90.00	227+65.00	EB	RT	132		150.0	87.5	25			1	1										1.8	7.2	3	
30	GR-2	233+75.00	235+25.00	233+75.00	235+50.00	WB	LT	136		150.0	87.5	25			1	1										1.8	7.2	3	
31	GR-3	239+57.00	241+07.00	239+30.00	241+05.00	EB	RT	128		150.0	87.5	25			1	1										1.8	7.2	3	
31	GR-4			248+70.50	252+08.00	WB	LT	276			275.0				1	1										3.4	13.2	4	
31	GR-5	* 252+75.00	1+50.00	* 252+16.00	1+28.50	EB/RAMP K	RT	161		150.0	125.0				1	1										1.9	7.6	3	
31	GR-6	262+15.00	264+65.00	261+80.00	264+53.50	EB	RT	136		250.0	87.5				1				1				136			2.8	10.8	2	1
31,34	GR-7	264+87.50	267+50.00	265+12.50	267+61.00	WB	LT	105		250.0	62.5				1				1				136			2.5	9.9	2	1
32	GR-10	6+40.00	15+08.00	6+40.00	15+08.00	RAMP I/J	LT			875.0	862.5					1										8.8	32.4	9	
32	GR-11	8+56.50	8+89.00	8+56.50	8+89.00	RAMP O	LT			37.5	25.0					1										0.4	1.4	2	
32	GR-12	6+44.00	8+88.50	6+00.00	8+88.50	RAMP O	RT			300.0	287.5				1											3.4	13.2	4	
33	GR-14	5+50.00	22+58.50	5+00.00	22+58.50	RAMP K/306	RT			375.0	375.0				1											4.3	16.4	5	
33	GR-15	23+21.50	2+02.50	23+21.50	2+03.50	306/RAMP M&N	RT			262.5	250.0					1										2.6	9.7	3	
33	GR-16	1+08.50	1+52.00	1+08.50	1+52.00	RAMP M&N	LT			75.0	50.0			1												0.8	2.8	1	
34	GR-18	** 1+72.00	277+05.00	** 1+53.50	277+96.50	RAMPO/WB	LT	195		150.0	162.5				1	1										2.3	9.0	3	
34	GR-19	289+75.00	291+25.00	289+75.00	291+50.00	WB	LT	130		150.0	87.5	25			1	1										1.8	7.2	3	
35	GR-21	297+52.00	299+39.50	296+39.50	298+14.50	EB	RT			75.0	125.0				1											1.8	7.2	3	
35	GR-22	300+18.50	302+06.00	301+43.50	303+18.50	WB	LT			75.0	125.0				1											1.8	7.2	3	
35,36	GR-23			319+92.00	323+29.50	EB	RT	276			275.0				1	1										3.4	13.2	4	
36	GR-26	327+75.00	329+25.00	322+62.50	329+50.00	WB	LT	136		150.0	600.0	25			1	1										6.9	26.2	7	
36	GR-27			331+51.00	334+88.50	EB	RT	276			275.0				1	1				1						3.4	13.2	4	
36	GR-28			336+14.00	339+51.50	WB	LT	276			275.0				1	1										3.4	13.2	4	
36	GR-29	345+80.00	347+55.00	343+75.00	347+50.00	EB	RT	276		175.0	275.0	25			1	1										3.6	14.1	4	
36	GR-30	345+04.00	346+79.00	345+09.50	348+47.00	WB	LT	276		175.0	275.0				1	1										3.4	13.2	4	
38	GR-31	378+75.00	380+25.00	378+50.00	380+25.00	EB	RT	130		150.0	87.5	25			1	1										1.8	7.2	3	
38	GR-32	***386+50.00	8+50.00	***388+63.00	8+50.00	EB/RAMP S	RT			1200.0	900.0	25			1	1										9.9	37.3	10	
38,39	GR-33	# 391+07.00	10+00.00	# 391+00.00	9+50.00	WB/RAMP Q	LT			900.0	812.5			1		1										8.5	31.5	9	
38	GR-34	396+90.00	401+40.00			EB	RT			62.5	62.5																		
38	GR-35	398+87.50	401+75.00			WB	LT			25.0	25.0																		
38	GR-37	403+94.00	408+56.50			WB	LT			50.0	50.0																		
39,40	GR-38	4+50.00	11+50.00	3+87.50	11+50.00	RAMP T	RT			700.0	725.0			1		1				1						7.6	28.2	8	
40	GR-39	## 11+51.00	413+00.00	## 11+55.50	413+18.00	RAMP V/WB	LT	116		150.0	75.0	25			1	1										1.6	6.7	3	
40	GR-40	425+75.00	427+25.00	425+75.00	427+50.00	WB	LT	136		150.0	87.5	25			1	1										1.8	7.2	3	
	GR-41	439+84.00	442+72.00							576.0											2								
41	GR-42			$ 437+62.50	442+25.00	EB	LT	331			400.0				1	1										4.6	17.8	5	
41	GR-43	439+75.00	444+00.00	439+86.50	443+96.00	EB	RT	126		425.0	275.0				1	1			1				72			4.1	15.9	4	1
41	GR-44			$ 440+31.00	444+93.50	WB	RT	331			400.0				1	1										4.6	17.8	5	
41	GR-45	440+62.50	445+25.00	440+90.00	447+21.00	WB	LT	276		362.5	525.0				1				1				56			6.3	24.1	6	1
TOTALS TO GENERAL SUMMARY										8726	9563	250		3	27	25			4	2		2		400		118.9	457	139	4

* - STA 252+75.00 BK = STA 0+00.00 AH RAMP K
** - STA 0+00.00 BK RAMP O = STA 277+25.00 AH
*** - STA 393+80.00 BK = STA 3+80.00 AH RAMP S
$ - GUARDRAIL OFFSET 4' FROM EDGE OF SHOULDER
# - STA 394+50.00 BK = STA 4+50.00 AH RAMP Q
- STA 13+00.00 BK RAMP V = STA 413+00.00 AH

GUARDRAIL QUANTITIES

LAKE COUNTY
LAK-2-6.12

PLOTTED FROM: i:\PROJECTS\Pid19530\DGN\19530qba.dgn