

COMPUTED BY(UPDATED): JM DATE: 9/30/2021
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PROJECT NO.
 R-5021

SHEET NO.
 3B-9

SUMMARY OF HYDRAULIC RIP RAP & DDE QUANTITIES

LINE	SIDE	STATION	STATION	RIP RAP CLASS				GEO (SY)	PSRM (SY)	DDE (CY)	DETAIL	COMMENT
				I	II	A	B					
-L-	RT	307+24		26				50			AT OUTLET, 48" PIPE	
-L-	RT	307+50	308+50						698			
-L-	RT	310+50	312+50						1,541	HH	LATERAL BASE DITCH	
-L-	RT	310+64		33				62			AT OUTLET, 54" PIPE	
-L-	RT	312+53						2	7		AT OUTLET, 15" PIPE	
-L-	RT	313+50	315+00	260				430	714	JJ	LATERAL BASE DITCH	
-L-	RT	315+20		25				45		JJJ	RIP RAP AT EMBANKMENT	
-L-	RT	316+12		25				45		JJJ	RIP RAP AT EMBANKMENT	
-L-	RT	316+50	319+00	165				280	1,318	JJ, Y	LATERAL BASE DITCH, LATERAL 'V' DITCH	
-L-	RT	316+87	317+31	75				130	30	EE	CULVERT CHANNEL IMPROVEMENTS (DOWNSTREAM)	
-L-	RT	323+92	324+14					30	80		STANDARD 'V' DITCH	
-L-	RT	325+50						2	7		AT OUTLET, 18" PIPE	
-L-	RT	326+62						2	7		AT OUTLET, 15" PIPE	
-L-	RT	349+75						2	7		AT OUTLET, 30" PIPE	
-L-	RT	350+22		15				30			AT OUTLET, 36" PIPE	
-L-	RT	352+05		15				30			AT OUTLET, 36" PIPE	
-L-	RT	353+39	353+59						50	VV	STANDARD BASE DITCH	
-L-	RT	353+48		15				30			AT OUTLET, 36" PIPE	
-L-	RT	355+06						2	7		AT OUTLET, 15" PIPE	
-L-	RT	356+17						2	7		AT OUTLET, 15" PIPE	
-L-	RT	361+51						2	7		AT OUTLET, 15" PIPE	
-L-	RT	364+00	366+22						175	YY, ZZ	CUT DITCH, LATERAL 'V' DITCH	
-L-	RT	366+50	369+50	360				640	172	AAA, II	LATERAL BASE DITCH	
-L-	RT	373+40	373+66	20				30		MM	VAR. WIDTH LATERAL BASE DITCH	
-L-	RT	374+13		7				15			AT OUTLET, 24" PIPE	
-L-	RT	375+38	375+67						90	OOO	STANDARD BASE DITCH	
-L-	RT	382+24	383+03						75	XXX	STANDARD 'V' DITCH	
-L-	RT	388+09						2	7		AT OUTLET, 15" PIPE	
-L-	RT	392+02						2	7		AT OUTLET, 15" PIPE	
-L-	RT	392+08	392+28						30	OOO	STANDARD BASE DITCH	
-L-	RT	401+02						2	7		AT OUTLET, 15" PIPE	
-L-	RT	405+12						2	7		AT OUTLET, 15" PIPE	
-L-	RT	416+51	416+83						460	40	MMM	STANDARD BASE DITCH
-YAREV-	LT	19+85						2	7		AT OUTLET, 15" PIPE	
-YAREV-	RT	11+90						2	7		AT OUTLET, 15" PIPE	
-YAREV-	RT	12+85						2	7		AT OUTLET, 15" PIPE	
-YAREV-	RT	14+50						2	7		AT OUTLET, 15" PIPE	
-YAREV-	RT	15+89						2	7		AT OUTLET, 15" PIPE	
-YASLIP-	RT	11+25						2	7		AT OUTLET, 15" PIPE	
-YREV-	LT	7+71	10+29							O, A	VAR. WIDTH LATERAL BASE DITCH, SPECIAL LATERAL BASE DITCH	
-YREV-	LT	7+71	7+82	10				20			VAR WIDTH LATERAL BASE DITCH	
-YREV-	LT	10+16		11				22			AT OUTLET, 36" PIPE	
-YREV-	LT	15+96		11				22			AT OUTLET, 36" PIPE	
-YREV-	LT	17+27		11				22			AT OUTLET, 36" PIPE	
-YREV-	LT	20+85						5	14		AT OUTLETS, 15" AND 24" PIPES	
-YREV-	LT	21+86						3	10		AT OUTLET, 24" PIPE	
-YREV-	LT	23+50	26+50						256	DD	LATERAL 'V' DITCH	
-YREV-	RT	9+46	10+14									
-YREV-	RT	9+46	9+60	10				20			SPECIAL LATERAL BASE DITCH	
-YREV-	RT	10+01		11				22			AT OUTLET, 30" PIPE	
-YREV-	RT	29+36						2	7		AT OUTLET, 15" PIPE	
-YREV-	RT	33+47	33+53						35	XXX	STANDARD 'V' DITCH	
-YREV-	RT	33+50						2	7		AT OUTLET, 15" PIPE	
-YREV-	RT	36+40						1	5		AT OUTLET, 15" PIPE	
-YREV-	RT	38+50						2	7		AT OUTLET, 15" PIPE	
-YREV-	RT	42+60						2	7		AT OUTLET, 15" PIPE	

LINE	SIDE	STATION	STATION	RIP RAP CLASS				GEO (SY)	PSRM (SY)	DDE (CY)	DETAIL	COMMENT
				I	II	A	B					
-YREV-	RT	45+25						2	7			AT OUTLET, 15" PIPE
-YB-	LT	15+96	16+04					6	15			VAR. WIDTH SPECIAL LATERAL BASE DITCH
-YB-	LT	16+00						5	14			AT OUTLET, 24" PIPE
-YB-	LT	22+16						1	5			AT OUTLET, 15" PIPE
-YD-	LT	12+00						5	14			AT OUTLET, 24" PIPE
-YD-	RT	12+14						2	7			AT OUTLETS, 15" AND 24" PIPES
-YG-	RT	12+47						5	14			AT OUTLET, 24" PIPES
-Y11-	RT	11+25	12+00							193	Y	LATERAL 'V' DITCH
-Y11-	LT	11+25	12+00							193	Y	LATERAL 'V' DITCH
-Y14A-	LT	29+50	34+50	90					130		HHH, SSSS,	LATERAL BASE DITCH
-Y14A-	LT	29+51						2	7			AT OUTLET, 15" PIPE
-Y14A-	LT	31+02						2	7			AT OUTLET, 15" PIPE
-Y14A-	LT	34+12						2	7			AT OUTLET, 15" PIPE
-Y14A-	LT	34+49						8	21			AT OUTLET, 30" PIPE
-Y14A-	LT	55+74						2	7			AT OUTLET, 15" PIPE
-Y14A-	LT	60+50	65+00							947	QQQQ	LATERAL BASE DITCH
-Y14A-	LT	61+48						2	7			AT OUTLET, 15" PIPE
-Y14A-	LT	62+97						2	7			AT OUTLET, 15" PIPE
-Y14A-	RT	42+73	42+83							5	XXX	STANDARD 'V' DITCH
-Y14A-	RT	42+78						2	7			AT OUTLET, 15" PIPE
-Y14A-	RT	44+99						2	7			AT OUTLET, 15" PIPE
-Y14A-	RT	48+69	48+87							25	XXX	STANDARD 'V' DITCH
-Y14A-	RT	48+72						2	7			AT OUTLET, 15" PIPE
-Y14A-	RT	51+75	51+81							3	XXX	STANDARD 'V' DITCH
-Y14A-	RT	51+78						2	7			AT OUTLET, 15" PIPE
-Y14A-	RT	56+00	58+50							288	QQQQ	LATERAL BASE DITCH
-Y14D-	LT	16+60						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	18+59						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	19+29						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	20+14						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	20+69						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	22+00						2	7			AT OUTLET, 15" PIPE
-Y14D-	LT	22+00	22+50							10	Y	LATERAL 'V' DITCH
-Y14G-	LT	12+00						1	5			AT OUTLET, 15" PIPE
-Y22-	LT	15+31	15+57							35	XXX	STANDARD 'V' DITCH
-Y22-	LT	21+34						3	10			AT OUTLET, 18" PIPE
-Y22-	LT	21+50	23+00							359	Y	LATERAL 'V' DITCH
-Y22-	LT	23+18	23+31	33					62			LATERAL 'V' DITCH AND AT OUTLET, 54" PIPE
-Y22-	LT	23+26	24+00						25	75		TOE PROTECTION
-Y22-	LT	32+84	33+54							315	RRR	STANDARD BASE DITCH
-Y22-	LT	33+41						33		62		AT OUTLET, 54" PIPE
-Y22-	LT	33+54	33+91							30	OOO	STANDARD BASE DITCH
-Y22-	RT	18+50	25+00							1,046	Y	LATERAL 'V' DITCH
-Y22-	RT	23+00						6		14		RIP RAP AT EMBANKMENT
-Y22-	RT	23+15						6		14		RIP RAP AT EMBANKMENT
-Y22-	RT	42+00	42+50							100	17	SPECIAL CUT BASE DITCH
-Y24-	RT	12+55							5	14		SPECIAL LATERAL 'V' DITCH
-RAB-	RT	12+31							1	5		AT OUTLET, 15" PIPE
-RAB-	RT	13+00							1	5		AT OUTLET, 15" PIPE
(PER GEOTECH MEMO FOR ROCK EMBANKMENTS)								40	40			

3B-8 TOTAL:	2,290	0	0	692	5,796	0	52,953
3B-9 TOTAL:	1,273	0	40	223	2,806	735	9,261
TOTAL:	3,563	0	40	915	8,602	735	62,214
SAY:	3,565	0	40	915	8,605	735	62,215