APPENDIX D: WATER RESOURCES

D.3 Stormwater Management Summary

Table 1 - Existing Conditions Peak Flows

		Peak Discharges of Various Storm Frequency (cfs)					
Study Point	Drainage Area	1-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	249.16	17.71	77	109.45	164.66	226.07	292.28
B	462.9	20.44	111.01	151.2	263.57	427.78	636.55
C	70.89	0.02	1.81	4.09	11.17	21.18	33.26
D	6.5	2.93	9.04	11.01	15.05	19.18	23.35

Table 2- Proposed Conditions Peak Flows

		Peak Discharges of Various Storm Frequency (cfs)					
Study Point	Drainage Area	1-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	251.72	16.57	68.64	86.82	128.82	184.87	239.79
B	462.77	16.14	104.98	149.46	253.26	361.17	475.08
C	68.36	0.02	1.78	3.97	10.7	19.99	31.13
D	6.6	2.93	8.99	10.92	14.88	18.92	23.35

Water Quality & Runoff Reduction Summary

Required		
1) Water Quality required =	**33.926**	**ac-ft**

Provided		
2) Runoff reduction volume by conservation area =	23.686	ac-ft
3) Runoff reduction volume by Buffer/ Filter Strip Area =	0.37	ac-ft
4)Total runoff reduction provided =	24.056	ac-ft
5) Minimum required runoff reduction volume =	6.12	ac-ft
6) Water quality volume provided by wet extended pond =	14.614	ac-ft
7) Water quality volume provided by underground sand filter =	1.26	ac-ft
8) Total water quality volume provided =	15.874	ac-ft
9) Total runoff reduction and water quality volume provided =	**39.93**	**ac-ft**

Water quality and runoff reduction volume provided is greater that required water quality volume

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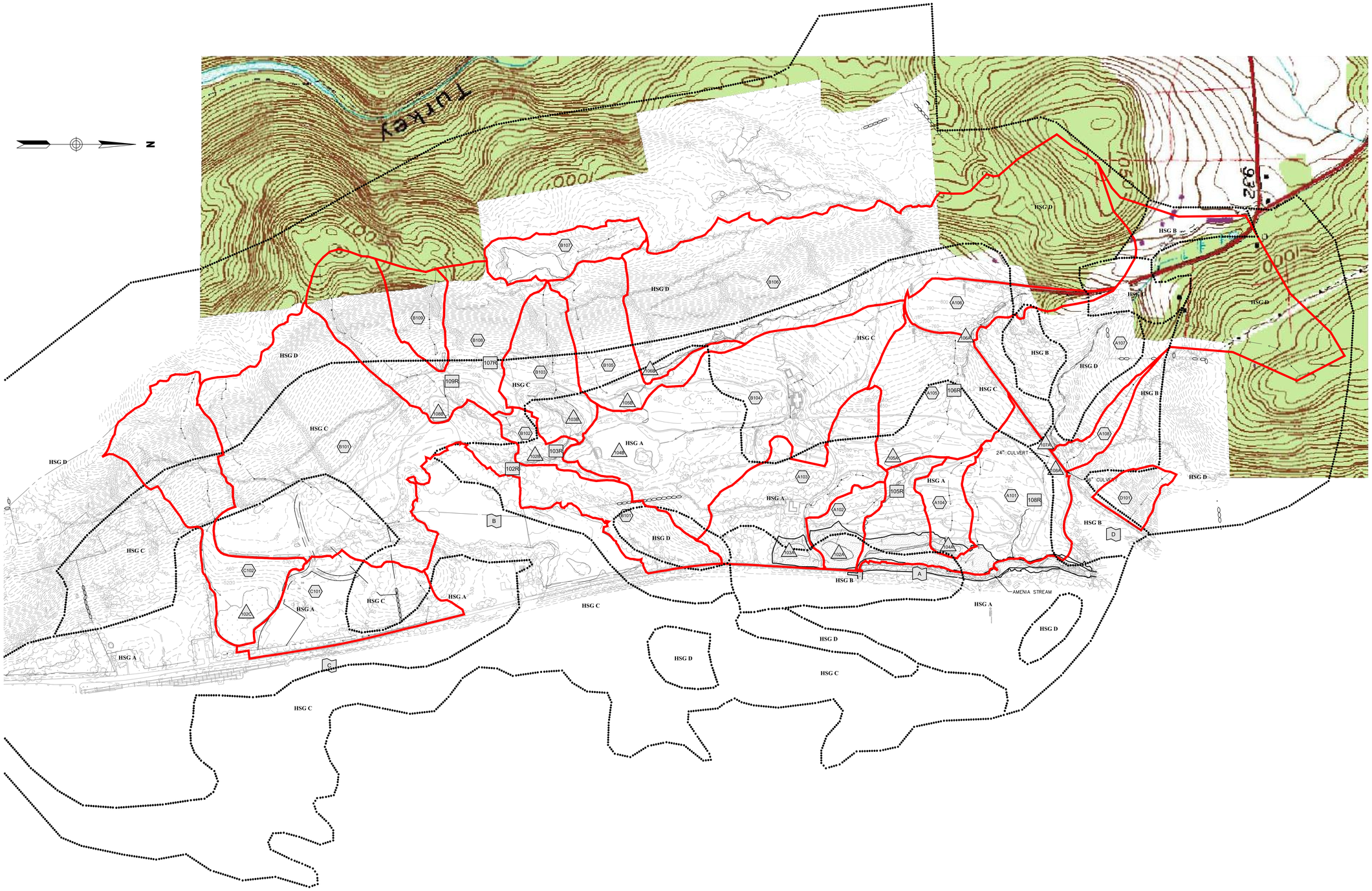

Symbol	Description
#	Drainage Area
	Drainage Area Boundary
#	Detention Basin/Pond
#	Reach
#	Discharge Point
	Tc Path
HSG	Soil Boundary

400 0 400 800
SCALE IN FEET

No.	Revision	Date	Appvd.

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Silo Ridge Resort Community

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Drawing Title
Existing Conditions Drainage Area Map

Drawing Number
Fig. 1

Sheet 1 of 1

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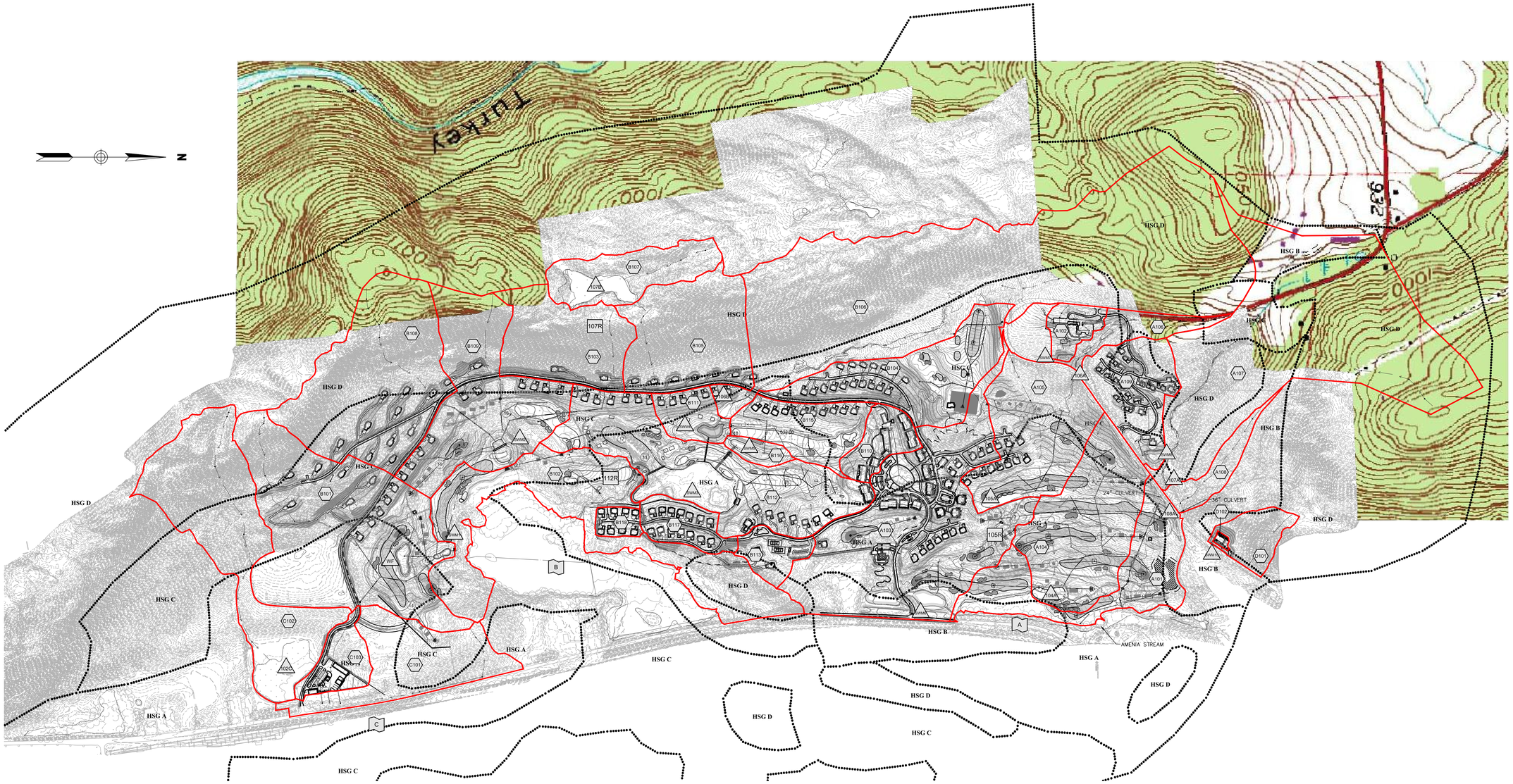
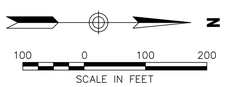


Symbol	Description
#	Drainage Area
	Drainage Area Boundary
#	Detention Basin/Pond
#	Reach
#	Discharge Point
	Tc Path
HSG	Soil Boundary

Phase 1 Overlook



No.	Revision	Date	Approd.
1	PER TOWN COMMENTS	6/19/14	ACD

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Proposed Conditions Drainage Area Map

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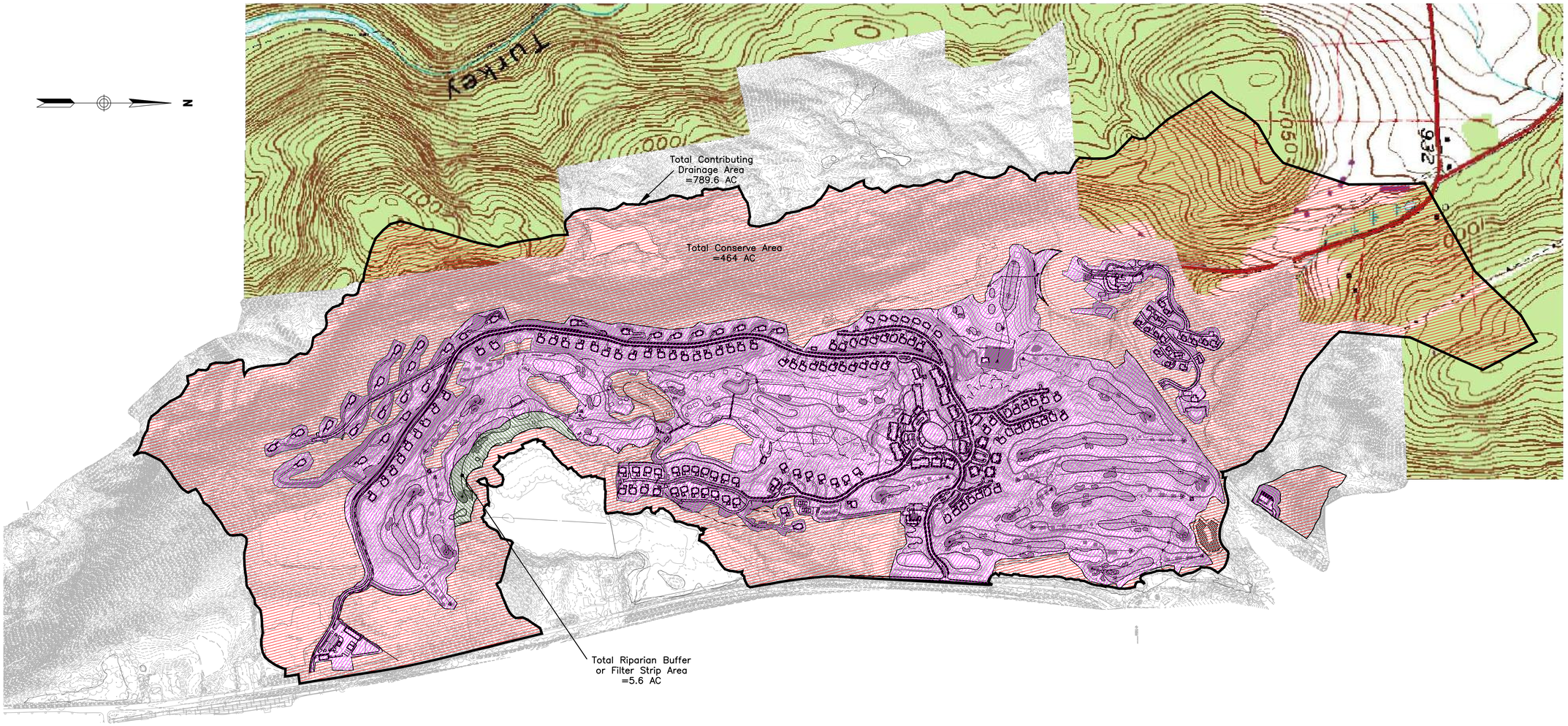

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Proposed Conditions
Water Quality Map

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Fig. E3

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