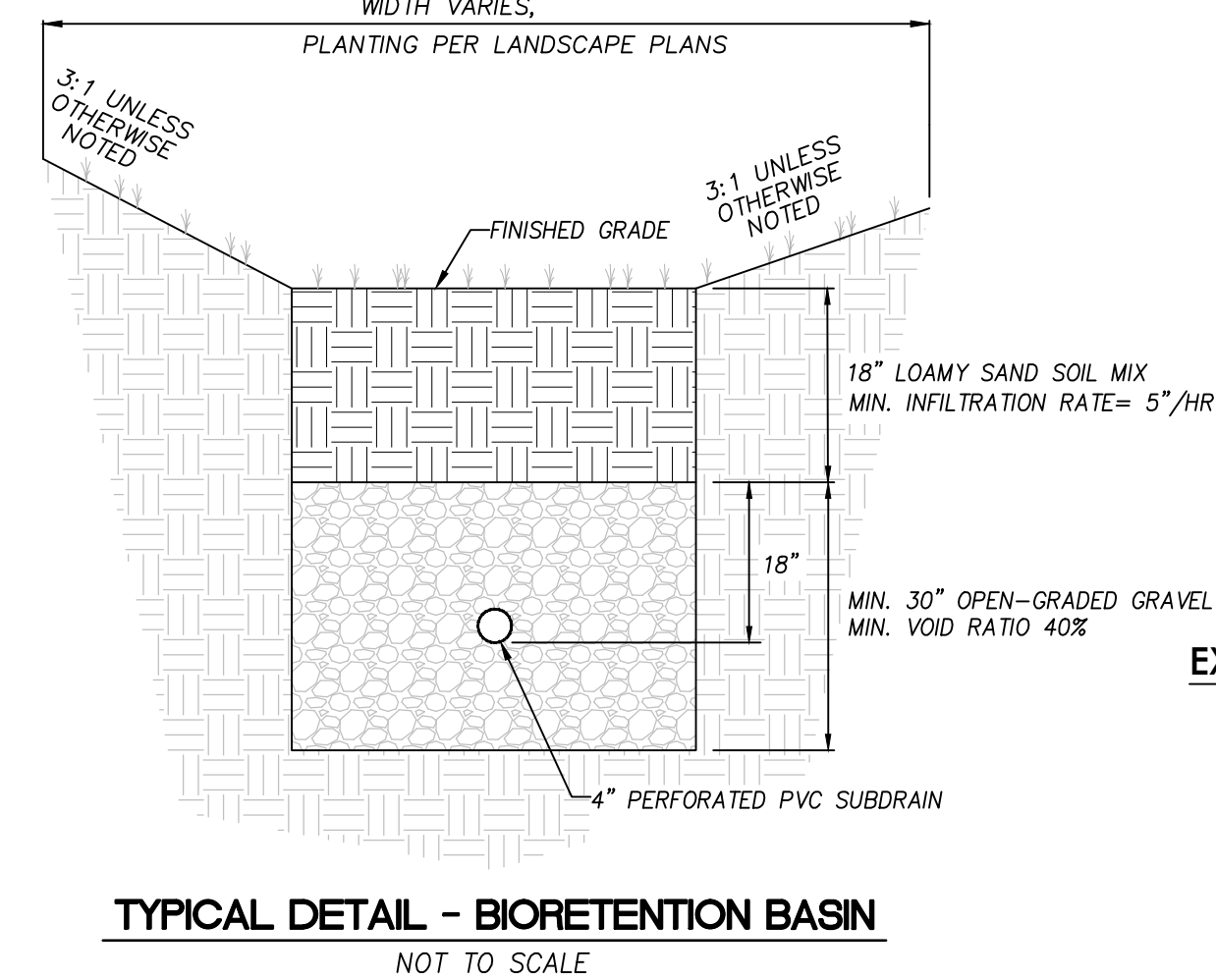
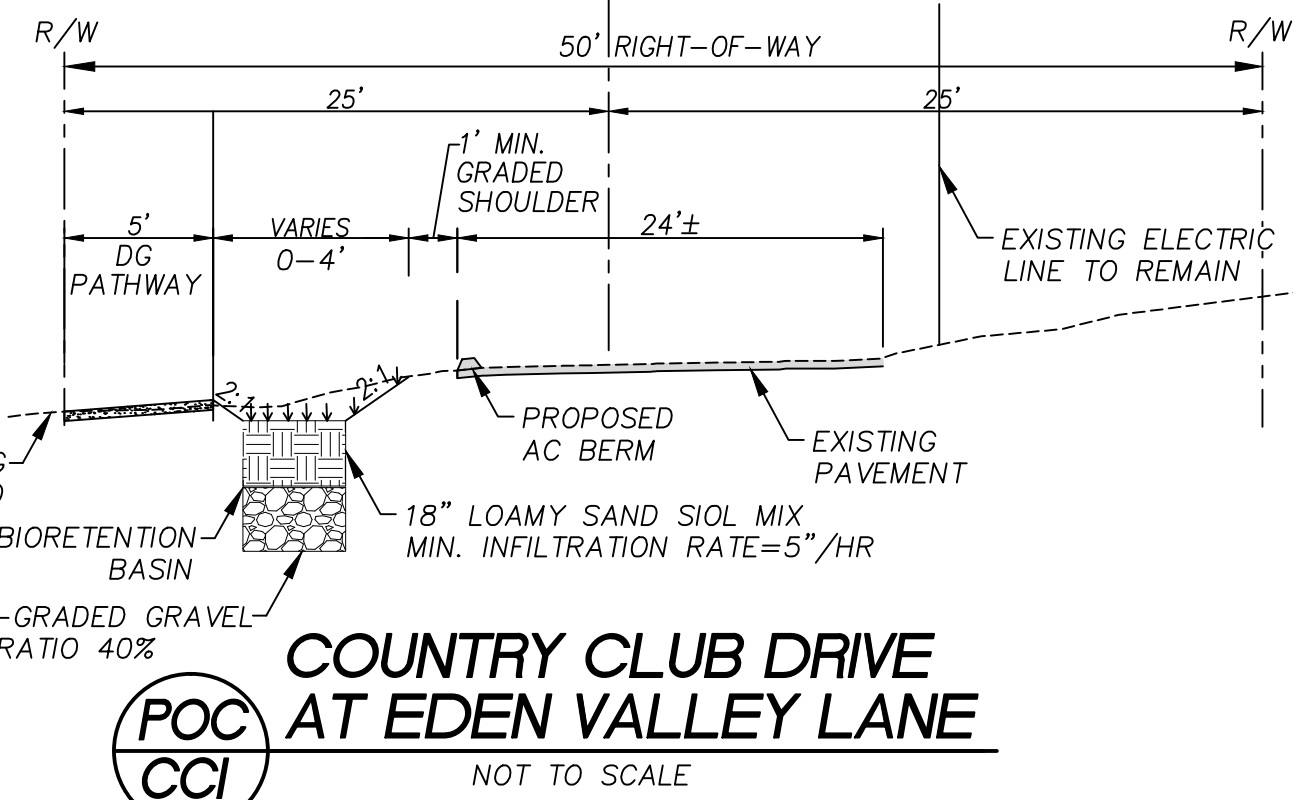
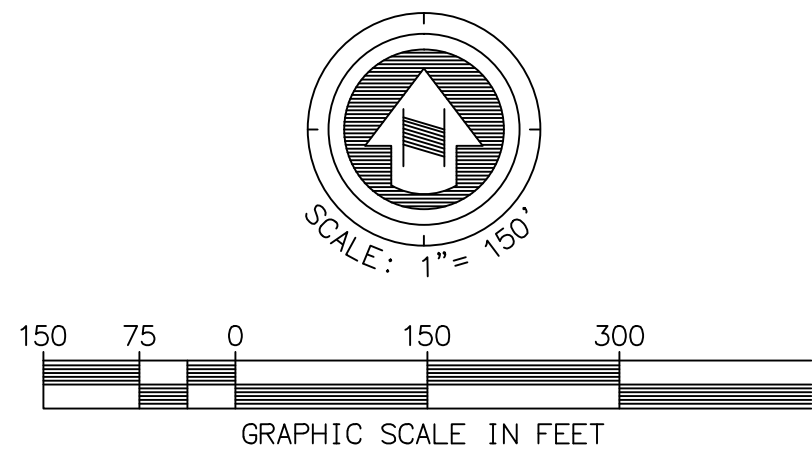




LEGEND

PROPERTY LINE	---
PROPOSED LOT LINE	---
RIGHT-OF-WAY	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
PROPOSED STORM DRAIN	---
FLOW DIRECTION	→
EXISTING CONDITIONS CONCENTRATED DISCHARGE LOCATION	EX
PROPOSED DEVELOPED AREAS (70% IMPERVIOUS)	Light Blue
OFFSITE ROAD AREAS (100% IMPERVIOUS)	Dark Blue
PROPOSED LANDSCAPED AREAS	Light Green
SELF-TREATING AREAS	Dark Green
PROPOSED BMPs	Light Purple
PERMEABLE PAVEMENT	Dark Purple
BASIN BOUNDARY	---
POINT OF COMPLIANCE	POC #
EXTENDED DETENTION BASIN WITH BIORETENTION	EDB
BIORETENTION BASIN	BIO
PERMEABLE PAVEMENT	PP

EXTENDED DETENTION BASIN WITH BIORETENTION DETAILS & REQUIREMENTS

Basin	Subdrain Orifice			Upper Orifice			Weir	
	Dia. (in)	Elev. (ft)	Volume (cf)	Dia. (in)	Elev. (ft)	Volume (cf)	Elev. (ft)	Depth (ft)
1	1.4	-2.5	6	2	10.6	4	5	
2A	1.3	-2.5	7	1.5	10.6	3	4	
2B	1.8	-2.5	10	2	10.6	3	4	
2C	2.6	-2.75	12	1.75	10.6	3	4	
2D	1.0	-2.5	7	1	10.6	2	3	
2E	1.8	-2.5	11	2	10.6	3	4	
3A	1.7	-2.5	9	1	10.6	2	3	
3B	2.5	-4.5	15	1.5	10.6	3	4	
3C	2.1	-3.5	12	1.75	10.6	3	4	
3D	2.2	-2.5	14	2	10.6	3	4	
4A	1.8	-2.75	11	1.75	10.6	3	4	
4B	1.6	-2.5	9	0.5	10.6	1	2	
5A	1.8	-2.5	9	1.5	10.6	3	4	
5B	1.8	-2.5	10	2	10.6	3	4	
5C	1.3	-2.5	12	1.5	10.6	2.5	3	
5D	1.3	-2.75	6	2	10.6	3	4	

Basin	BMP Calculator Output			IMP Size Provided			Downdown Time (hours)
	Bottom A (ft)	Top A (ft)	Volume (cf)	Bottom A (ft)	Top A (ft)	Volume (cf)	
1	3,375	6,096	23,684	3,897	7,316	28,033	39
2A	3,750	5,965	19,431	6,037	9,195	30,466	36
2B	5,000	8,129	27,288	5,434	9,198	29,464	35
2C	10,000	13,456	46,912	10,936	16,334	54,540	27
2D	3,750	5,363	13,671	4,135	5,950	15,128	42
2E	6,500	9,335	31,672	7,010	10,102	34,224	41
3A	6,000	8,003	21,005	6,594	9,149	23,615	27
3B	7,250	10,230	34,961	7,325	11,362	37,374	18
3C	6,500	9,335	31,672	7,202	10,679	35,762	25
3D	20,000	24,781	98,005	22,060	29,509	103,138	78
4A	5,750	8,432	28,365	6,159	9,034	30,386	34
4B	8,000	9,495	17,495	8,153	9,822	17,276	24
5A	16,000	20,303	72,607	17,846	24,462	84,616	82
5B	5,156	7,710	25,733	5,319	9,657	29,952	33
5C	9,250	11,702	31,428	9,484	12,322	32,709	87
5D	4,750	7,211	23,923	4,888	7,411	24,598	52

BIORETENTION BASIN DETAILS & REQUIREMENTS

Basin	BMP Calculator Output			IMP Size Provided			Orifice Dia. (in)
	Area (sf)	V1 (cf)	V2 (cf)	Orifice Dia. (in)	Area (sf)	V1 (cf)	
2F	2,927	2,441	1,756	1.0	3,195	2,653	1.0
MW1	1,868	1,556	1,121	0.8	1,894	1,572	0.8
MW2	2,095	1,745	1,257	0.9	2,105	1,747	0.9
CCI*	449	374	269	-	450	510	-

* Per sizing factors listed in County SUSMP dated August 2012

