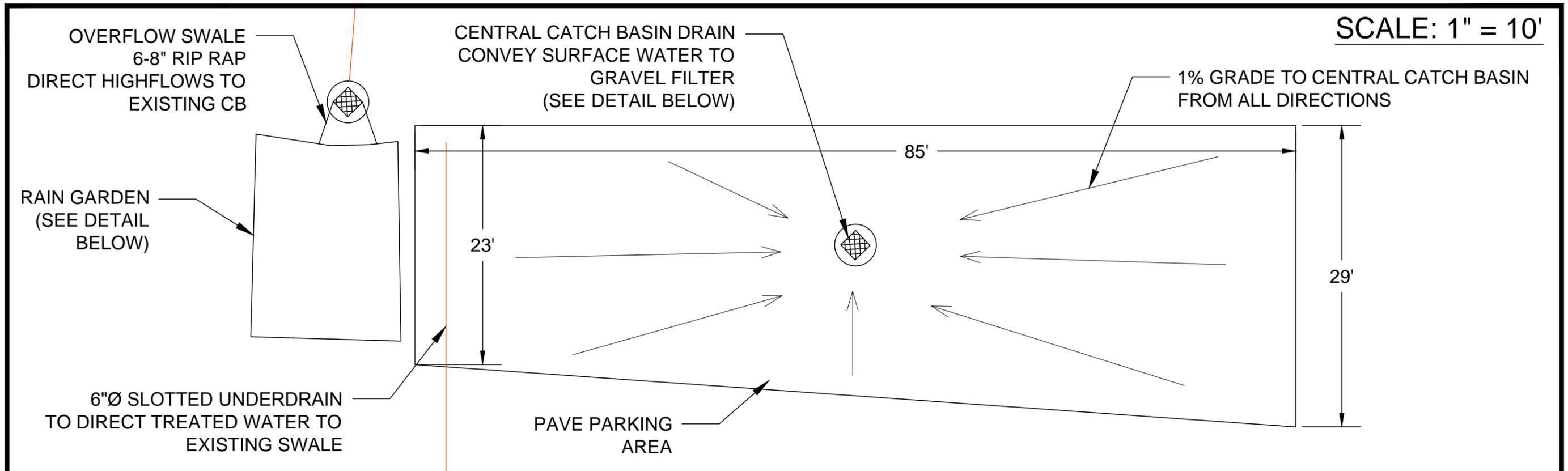


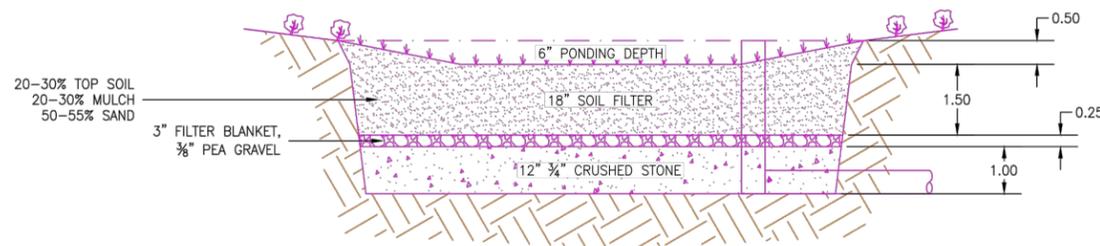
Appendix F: BMP Conceptual Designs



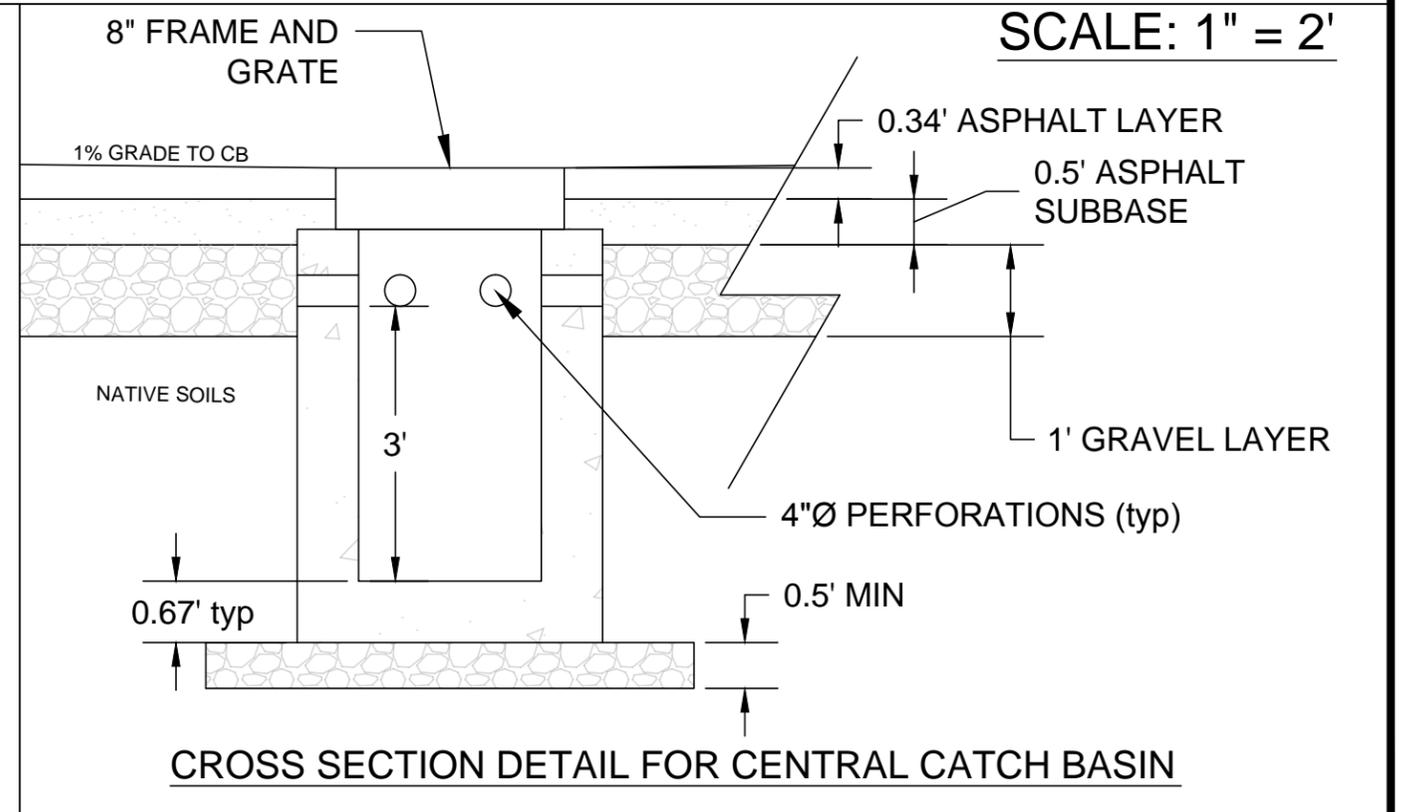
SCALE: 1" = 10'

SOIL FILTER MEDIA		
FILTER MEDIA	MIXTURE BY VOLUME	SPECIFICATION
SAND	50-55%	NHDOT SPECIFICATION #304.01 FINE AGGREGATE FOR CONCRETE
TOPSOIL	20-30%	LOAMY SAND TOPSOIL WITH MINIMAL CLAY CONTENT AND BETWEEN 15 TO 25% FINES PASSING THE #200 SIEVE
MULCH	20-30%	MODERATELY FINE, SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE #200 SIEVE

SCALE: 1" = 2'



CROSS SECTION DETAIL FOR RAIN GARDEN



SCALE: 1" = 2'

CROSS SECTION DETAIL FOR CENTRAL CATCH BASIN

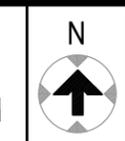
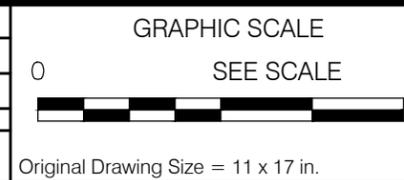
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No.	Date	Revision

Designed: TAP	Checked: JJH	Approved: TPB
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Project:
CONCEPT DESIGNS
STORMWATER MANAGEMENT
WAUKEWAN ST, MEREDITH, NH

Date:
October 27, 2015
Sheet No.
2 of 2

City/NHDOT Item No.	Description	Unit	Quantity	Unit Price	Cost	Project + 10%	Project - 10%
	Asphalt Subbase						
GRAVEL3	Sand (60%) ¹	CY	27.8	\$16.00	\$444.80	\$489.28	\$400.32
NHDOT 604	Top Soil (20%)	CY	4.4	\$21.00	\$92.40	\$101.64	\$83.16
	Woodchips (20%)	CY	4.4	\$11.00	\$48.40	\$53.24	\$43.56
PEASTONE	3/8" Stone ¹	CY	2.8	\$28.00	\$78.40	\$86.24	\$70.56
RIPRAP	6" Minus Riprap ¹	TON	1.0	\$24.00	\$24.00	\$26.40	\$21.60
3/4" STONE	3/4" STONE	CY	93.0	\$24.00	\$2,232.00	\$2,455.20	\$2,008.80
ADS	6" HDPE Pipe ¹	LF	20	\$6.20	\$124.00	\$136.40	\$111.60
ADS	6" HDPE Slotted Pipe ¹	LF	20	\$6.20	\$124.00	\$136.40	\$111.60
ADS	6" HDPE END ¹	EA	1	\$20.00	\$20.00	\$22.00	\$18.00
ADS	6" Coupler	EA	1	\$8.00	\$8.00	\$8.80	\$7.20
	Non-woven Geotextile Fabric	EA	1	\$500.00	\$500.00	\$550.00	\$450.00
E&SC	Erosion and sediment control	SY	300	\$3.00	\$900.00	\$990.00	\$810.00
	Plantings	AREA	50	\$5.00	\$250.00	\$275.00	\$225.00
	H20 Catchbasin with Frame and Grate	EA	1	\$750.00	\$750.00	\$825.00	\$675.00
	Paving	SF	2550	\$3.00	\$7,650.00	\$8,415.00	\$6,885.00
	System Installation Equipment	Days	3.5	\$2,200	\$7,700	\$8,470.00	\$6,930.00
	System Installation Labor	Days	5	\$850	\$4,250	\$4,675.00	\$3,825.00

¹Based on competitive bid pricing

		Cost + 10%	Cost - 10%
Total	\$25,196	\$27,716	\$22,676



CONCEPT A: VEGETATED SWALE WITH BIO-RETENTION MEDIA



CONCEPT B: RAIN GARDEN

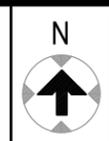
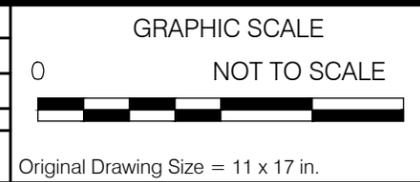
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No.	Date	Revision

Designed: TAP	Checked: JJH	Approved: TPB
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Project:
CONCEPT OVERVIEW
 WINOIA LAKE BOAT LAUNCH
 MEREDITH, NH

Date:
 November 13, 2015
 Sheet No.
 1 of 2

Lake Winoa Boat Launch - Materials and Costs

City/NHDOT Item No.	Description	Unit	Quantity	Unit Price	Cost	Project +10%	Project -10%	
GRAVEL3	Sand (60%) ¹	CY	28	\$16.00	\$448.00	\$492.80	\$403.20	
NHDOT 604	Top Soil (20%)	CY	10	\$21.00	\$210.00	\$231.00	\$189.00	
	Woodchips (20%)	CY	10	\$11.00	\$110.00	\$121.00	\$99.00	
PEASTONE	3/8" Stone ¹	CY	46	\$28.00	\$1,288.00	\$1,416.80	\$1,159.20	
RIPRAP	6" Minus Riprap ¹	TON	7	\$24.00	\$168.00	\$184.80	\$151.20	
E&SC	Erosion and sediment control	SY	200	\$3.00	\$600.00	\$660.00	\$540.00	
	Plantings	AREA	50	\$5.00	\$250.00	\$275.00	\$225.00	
	System Installation Equipment	Days	3	\$2,200	\$6,600	\$7,260.00	\$5,940.00	
	System Installation Labor	Days	4	\$850	\$3,400	\$3,740.00	\$3,060.00	
						Cost + 10%	Cost - 10%	
					Total	\$13,074	\$14,381	\$11,767

¹ Based on competitive bid pricing