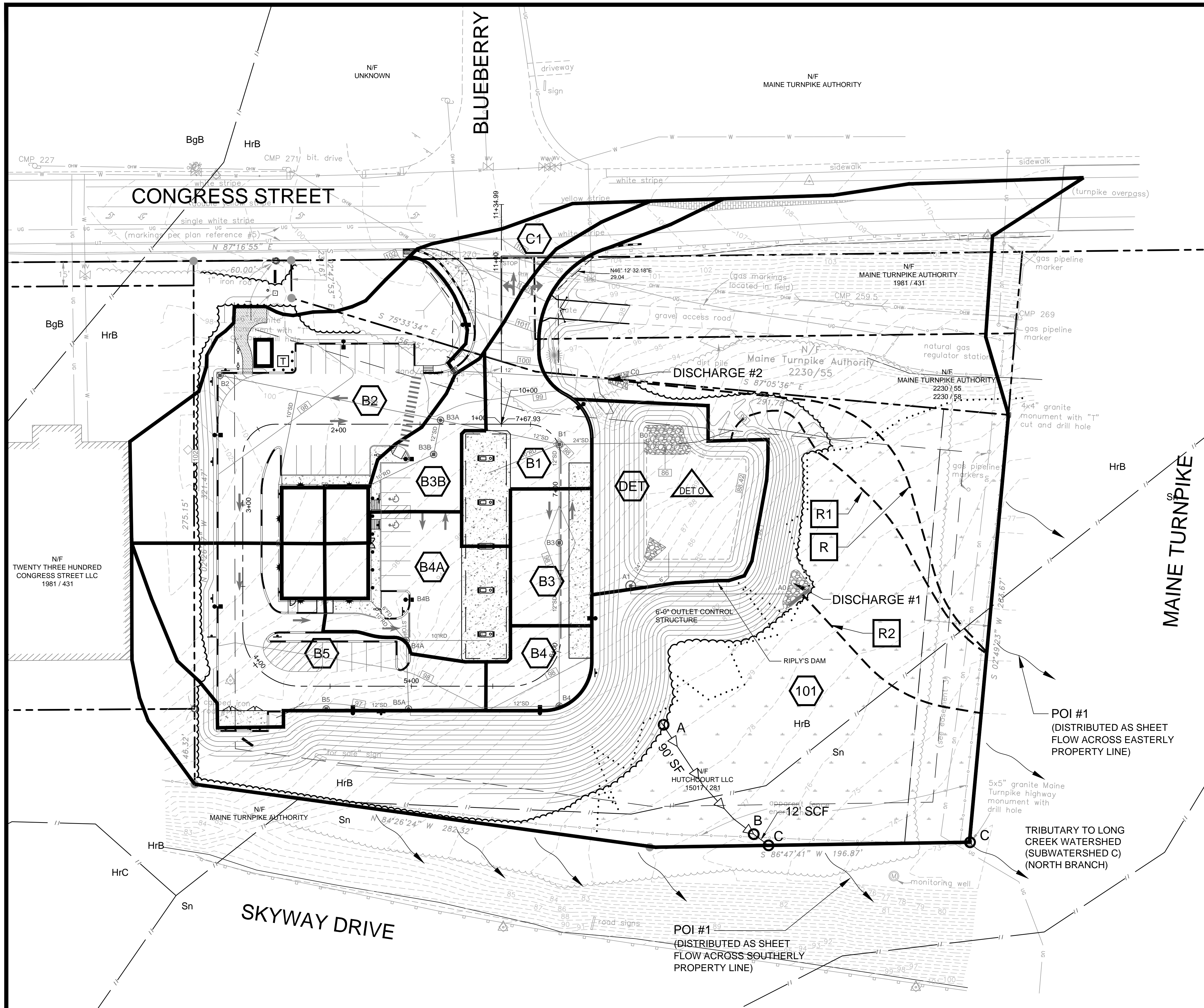


Stormwater Quality Treatment Computation Sheet
Grassed Underdrain Filter - Updated July 15, 2014

Area Tributary to the WQ Treatment Area				Site Area		
Subcatchment ID	Pervious Area	Impervious Area	Total Area	AREA	UNIT	DESCRIPTION
B1	0	8,879	8,879	3.24	AC	Original Parcel
B2	9,909	12,204	22,113	0.12	AC	Entrance Easement Area
B3	0	4,242	4,242			
B3B	0	4,562	4,562	3.36	AC	Total Project Parcel
B4	0	2,843	2,843			
B4A	266	8,238	8,504			
B5	4,428	9,780	14,208			
Sub Total (B Series)	14,603	50,748	65,351			
Sub Total (B Series)	0.34	1.17	1.50			
DET (SF)	10,851	0	10,851			
DET (AC)	0.25	0.00	0.25			
Treatment Total (SF)	25,454	50,748	76,202			
Treatment Total (AC)	0.58	1.17	1.75			
Offsite Area Being Treated	6,572	1,343	SF			
Onsite Developed Area NOT Being Treated	22,869	2,279	SF			
Total Onsite Impervious Area (SF)		51,684	SF			
Total Onsite Impervious Area (AC)		1.19	AC			
Total Onsite Developed Pervious Area (SF)	41,751		SF			
Total Onsite Developed Pervious Area (AC)	0.96		AC			
Total Onsite Developed Area (SF)	41,751	51,684	93,435	SF		
Total Onsite Developed Area (AC)	0.96	1.19	2.14	AC		
Percent of Impervious Area Treated		98.19%				≥ 95% Required
Percent of Developed Area Treated		81.56%				≥ 80% Required
Water Quality Volume Required (CF)	848	4,229	5,077	CF		
Water Quality Volume Provided (CF)			5,343	CF		
*Underdrain Soil Filter Area Required (SF)			3,046	SF		
Underdrain Soil Filter Area Provided (SF)			3,518	SF		

*Underdrain Soil Filters are required to be 5% of total impervious area + 2% of total pervious area according to Chapter 7.1, Volume III of the Maine Dep Storm Water BMP manual.

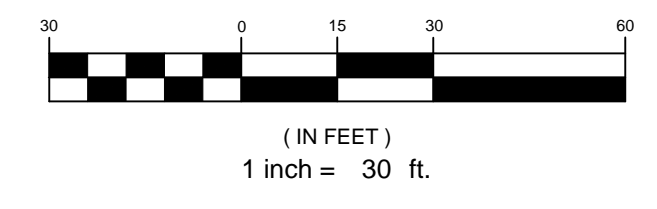


LEGEND	
	WATERSHED BOUNDARY
	MEDIUM INTENSITY SOIL BOUNDARY
	DRAINAGE FLOW PATH
	SHEET FLOW
	SHALLOW CONCENTRATED FLOW
	SUBAREA DESIGNATION

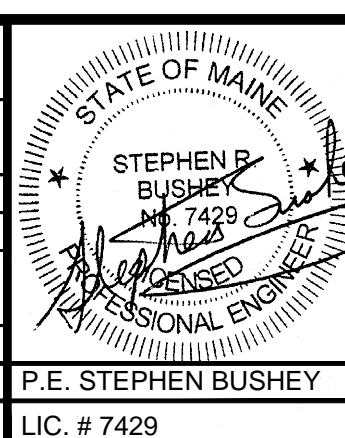
NOTE: WATERSHEDS WITHOUT A TC DRAINAGE FLOW PATH DEFINED ASSUME A MINIMUM 6 MIN TIME OF CONCENTRATION AS RECOMMENDED IN THE TR-55 MANUAL

SOILS LEGEND

ID	DESCRIPTION	SLOPE	HYDROLOGIC SOIL GROUP
HrB	HOLLIS FINE SANDY LOAM	3 - 8% SLOPE	C SOIL WHERE DRAINED D SOIL WHERE UNDERDRAINED (i.e. WETLANDS)
Sn	SCANTIC SILT LOAM	-SLOPE	D



REV	DATE	DESCRIPTION
6	07.22.14	REVISED POSTDEVELOPMENT AND SUBMITTED AMENDED PLANS TO CITY AND MEDEP
5	05.21.13	ELIMINATED ONE STORMTREAT AND SUBMITTED CITY APPROVED PLANS TO MEDEP
4	05.03.13	REVISED AND RESUBMITTED TO CITY
3	04.18.13	REVISED PER CITY STAFF COMMENTS
2	04.09.13	SUBMITTED TO MEDEP STORMWATER DISCHARGE PERMIT
1	03.28.13	SUBMITTED TO CITY OF PORTLAND



PROJECT
MULTI-USE DEVELOPMENT
2282 CONGRESS ST., PORTLAND, ME
SHEET TITLE
POSTDEVELOPMENT WATERSHED PLAN
CLIENT
CJ DEVELOPERS, INC.
35 PRIMROSE LANE, FREEPORT, MAINE 04032
AND PORTLAND PROPERTY HOLDINGS, LLC
2 MAIN STREET, SUITE 200, TOPSHAM, MAINE 04086

FST **FAY, SPOFFORD & THORNDIKE**
ENGINEERS · PLANNERS · SCIENTISTS
778 MAIN ST, SUITE 8, SOUTH PORTLAND, ME 04106

DRAWN: CMW DATE: OCTOBER 2013
DESIGNED: SRB SCALE: 1" = 30'
CHECKED: SRB JOB NO. 3118
FILE NAME: 3118-SP
SHEET C-14.1