SCHEDULE D – LEGACY WMO Permit Number: _____ STORMWATER MANAGEMENT FACILITIES

NA	ME	E OF PROJECT:	
		(Submit a separate Schedule D for each stormwater facility, as needed)	
1.	RUNOFF REQUIREMENTS: Submit calculations and an exhibit that delineates the 100-year critical storm by the major stormwater system including cross-sections indicating the HGL at critical points (e.g. overflow we		
	A.	Method used to calculate the 100-year peak design runoff rate: \Box Hydrologic model \Box Rational Method $\rightarrow i_{100-year}$ in/hr	
	B.	Onsite tributary area to the major stormwater system C or CN ,	acres
	C.	Offsite tributary area to the major stormwater system	acres
	D.	Total tributary area to the major stormwater system	acres
	E.	Ratio of offsite to onsite tributary area	
			minutes
	G.	100-year peak design runoff rate	cfs
	H.	Capacity of major stormwater system discharging offsite	cfs
	I.	Offsite discharge location of the major stormwater system: ROW/drainage easement Adjacent property (submit calculations to comply with \$502.3.B))
	J.	Type and location of major stormwater system:	
	K.	Building lowest entry elevation(s) are located at least 1 foot above the adjacent HGL: (Submit calculations and cross-sections showing the lowest entry elevation(s) and adjacent HGL) Yes No (for existing buildings located within the property holdings, submit acknowledged)	ent)
		DLUME CONTROL REQUIREMENTS: Submit calculations and a detail for the volume contr luding a cross-section indicating relevant elevations and the seasonal high groundwater table (SHGWT).	ol facility
	A.	Does the site have any restrictive covenants related to environmental conditions (e.g., NFR letter \Box No \Box Yes \rightarrow Explain:)?
	B.	Site constraint(s) that precludes the use of onsite retention-based practices (submit documentation): None SHGWT Contaminated Soil Other:	
	C.	Proposed impervious area of development	acres
	D.	Gross volume control storage (2.C/12)	ac-ft
	E.	The onsite gross volume control storage may be reduced when a site constraint is present:	
		1. Existing impervious area within development acres	
		2. VC storage reduction $(5)(2.D)[1 - (2.C/2.E.1)]$ ac-ft	
	F.	Required volume control storage (2.D – 2.E.2)	ac-ft
	G.	Provided volume within retention-based practice	ac-ft
	H.	Volume control facility (*only when a site constraint is present): □ Retention-based practice □ Flow-through practice* □ Detention Storage* □ Offsite retention-based practice* → WMO Permit Number:	
	I.	Facility designed as an offsite retention-based practice:	
		\Box No \Box Yes \rightarrow Impervious runoff volume tributary to facility	ac-ft

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3. EXISTING DETENTION FACILITY APPROVED UNDER:

Sewer Permit Ordinance (Complete items 4, 5, 7, 8)	\rightarrow	SPO Permit Number:	
Watershed Management Ordinance (Complete items 4, 5, 7, 9 or 10)	\rightarrow	WMO Permit Number:	
Not permitted by MWRD (Complete items 4, 6, 7, 8)	\rightarrow	Date Constructed:	

4. REDEVELOPMENT INFORMATION: When the detention service area is redeveloped in the amount specified in §505.4.B of the WMO, the control structure must be modified and documented on Item 7 of this schedule.

A.	Watershed specific release rate (Appendix B)	cfs/ac
B.	Redevelopment area	acres
C.	Detention Service Area (existing or revised)	acres
D.	Redevelopment percentage (4.B / 4.C)	%

5. INFORMATION FOR EXISTING DETENTION FACILIY PERMITTED BY MWRD: Information obtained from the approved permit and recent survey. The existing detention facility may be modified to comply with the existing and/or new stormwater detention requirements.

А	Detention Service Area	acres
В	Gross allowable release rate	cfs
С	Unrestricted release rate	cfs
D	. Depressional storage release rate adjustment	cfs
E	Net allowable release rate	cfs
F.	Actual release rate	cfs
G	. Required detention volume at actual release rate	ac-ft
Н	Provided detention volume at HWL	ac-ft

6. INFORMATION FOR EXISTING DETENTION FACILIY NOT PERMITTED BY MWRD:

SPO methodology may be used to determine the stormwater detention requirements for existing detention facilities constructed prior to May 1, 2014. If constructed on or after May 1, 2014, use WMO Schedule D.

A.	Detention Service Area	acres
В.	Time-of-concentration	minutes
C.	3-year storm rainfall intensity	in/hr
D.	Gross allowable release rate	cfs
E.	Unrestricted release rate (100-year rainfall intensity)	cfs
F.	Net allowable release rate $(6.D - 6.E)$	cfs
G.	Composite C (excluding unrestricted area)	
H.	Required detention volume at actual release rate (7.H.2)	ac-ft

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7. **REDEVELOPMENT RELEASE RATE REQUIREMENTS**: Provide an exhibit delineating the assigned release rates for the redevelopment and remaining non-redeveloped areas of the detention service area. Release rates must be based on the lesser of the watershed specific release rate or the existing gross allowable release rate.

A.	Redeveloped area	ac,	cfs/ac		
B.	Remaining detention service area	ac,	cfs/ac		
C.	New composite gross allowable release rate		cfs		
D.	Unrestricted area (existing or revised) C or CN	_ ,	acres		
E.	E. Unrestricted release rate (100-year, 24-hour storm)				
F.	F. Depressional storage release rate adjustment (100-year, 24-hour storm)				
G.	G. New composite net allowable release rate $(7.C - 7.E - 7.F)$				
H.	I. Control structure (restrictor) information:				
	Existing/Verified Proposed				
	1. Diameter in 2. Actual Release Rate		cfs		
	3. <i>C</i> _d		ft		
	5. Type 6. Invert elevation		ft		
	Release rate for the redevelopment		cfs/ac		
	ease rate or the actual release rate for the redevelopment area. Release rate for the redevelopment		cfs/ac		
B.	Existing required detention volume for redevelopmentC	_ ,	ac-ft		
C.	C. Proposed required detention volume for redevelopment C, ac-t				
D.	D. Incremental detention volume $(8.C - 8.B)$ a				
E.	Provided storage within retention-based practice (2.F)				
F.	New required detention volume ($(5.G \text{ or } 6.H) + 8.D - 8.E$)				
G.	a. Verified detention volume (from survey) a				
H.	I. Additional detention volume required $(8.F - 8.G)$				
I.	New provided detention volume at HWL (must $be \ge 8.G$)		ac-ft		
Th on	REDEVELOPMENT TRIBUTARY TO WMO NOMOGRAPH EXISTING DETENTION FACILIT This item is for existing detention facilities approved under the WMO using the nomograph. All volumes must be bas on the lesser of the watershed specific release rate or the actual release rate for the redevelopment area.				
A.	Release rate allocated for the redevelopment				
B.	Existing required detention volume for redevelopmentCN _{adj}				
C.	Proposed required detention volume for redevelopment				
D.	Incremental detention volume $(9.C - 9.B)$				
E.	New required detention volume $(5.G + 9.D)$				
F.	Verified detention volume (from survey)				
G.	Additional detention volume required $(9.E - 9.F)$		ac-ft		
H.	New provided detention volume at HWL (must $be \ge 8.G$)	····· <u> </u>	ac-ft		

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10. REDEVELOPMENT TRIBUTARY TO WMO MODELED EXISTING DETENTION FACILITY: This

item is for existing detention facilities approved under the WMO using a hydrologic model. All volumes must be based on the lesser of the watershed specific release rate or the actual release rate pro-rated for the redevelopment area.

A.	Time-of-concentration	minutes
B.	Redevelopment area detained (include trade areas)CN _{adj} ,,	acres
C.	Remaining non-redeveloped area detained CN _{adj} ,,	acres
D.	Required detention volume at actual release rate (7.H.2)	ac-ft
E.	Provided detention volume at HWL (7.H.4)	ac-ft

Engineering Firm:_____

	Name:	Phone:
P.E. SEAL	Title:	Email:
	Signature:	Date: