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RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	1/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

After recording return to:

City Clerk
City of Puyallup
333 South Meridian
Puyallup, WA 98371

Document Title: SFR Stormwater Management & BMP Facilities Agreement

Grantee: City of Puyallup

Grantor: HC Homes, Inc.

Abbreviated Legal Description: POR OF PIERCE COUNTY SP NO. 79-557, REC IN VOL 7 OF SP, PAGE 35

Complete Legal Description: See Exhibit 'A'

Assessor's Tax Parcel or Account Numbers: 0419095024

Reference Number of Related Document(s): N/A

SFR Stormwater Management & BMP Facilities Agreement

A. Parties. The parties to this agreement are Grantee City of Puyallup, a Washington State municipal corporation (City), and Grantor landowner HC Homes, Inc., a Washington corporation (Landowner).

B. Property. Landowner is the owner of certain real property (Property), which is legally described in this document and is located at the following address: 433 43rd Avenue Southwest, Puyallup, WA 98373.

C. Development Plan & Stormwater Facilities. The site improvements (Plan) for the Property, specifically, the site improvements (Plan) approved under City of Puyallup building Permit number PRRNSF20230919, provides for detention, retention, treatment, infiltration or management of stormwater that is associated with the Property through the use of identified stormwater facilities or best management practices (collectively, Stormwater Facilities). Upon approval of the Plan by the City, the Plan shall be incorporated herein by this reference. In accordance with the Plan, Landowner shall adequately construct, operate, use, maintain and repair the Stormwater Facilities.

RANGE	TOWNSHIP	SECTION	QUARTER	071	2/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

D. Agreement. On the terms and conditions set forth herein, the City and Landowner agree as follows:

1. The Stormwater Facilities shall be constructed, operated, used, maintained and repaired by Landowner in accordance with the requirements of the Plan, and any other applicable law or regulation.

2. Landowner (which expressly includes its agents, successors and assigns, including any homeowners association) shall adequately and properly operate, use, maintain and repair the Stormwater Facilities as described in the maintenance and operations manual, attached and recorded herewith as Exhibit 'B'. This duty extends to all associated pipes and channels, as well as all structures, improvements, and vegetation that are provided to control the quantity and quality of the stormwater. Adequate maintenance shall mean maintenance that is sufficient to keep the Stormwater Facilities in good working order and operating so as to satisfy the design and performance standards of the Plan.

3. Landowner shall regularly inspect the Stormwater Facilities and shall submit an inspection report to the City at least once a year on a date prescribed by the City. The purpose of the inspection(s) is to ensure that the Stormwater Facilities are safe and functioning properly. The scope of the inspection shall include the entire Stormwater Facilities, including but not limited to, berms, outlet structures, pond areas, access roads, and so forth. Deficiencies and any performance or other related issues shall be noted by Landowner in the inspection report. The annual report shall be in a form and include content as prescribed from time to time by the City. An example copy of the report form is attached hereto as Exhibit 'C'.

4. Landowner hereby grants permission to the City to enter upon the Property to inspect the Stormwater Facilities. Except in case of emergency, the City shall provide Landowner with at least forty-eight (48) hours written notice prior to entering on to the Property. Landowner shall be entitled to have a representative accompany the City during such inspection. The City shall provide Landowner with copies of written inspection reports.

5. If Landowner fails to adequately and properly operate, use, maintain or repair the Stormwater Facilities, and the City sees fit, the City shall notify Landowner in writing and provide Landowner with a reasonable opportunity to cure. If Landowner fails to timely cure, then the City may enter upon the Property and remedy the issue(s) identified in the notice and those reasonably related thereto; Furthermore, if the City performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like while remedying the identified issues, the City may charge the cost of the remedy to Landowner, and Landowner shall promptly pay the costs to the City. Notwithstanding the foregoing, the City shall be under no obligation to inspect, maintain or repair the Stormwater Facilities.

6. Landowner shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or in connection with activities or operations, performed by Landowner, or on Landowner's behalf, that relate to the Stormwater Facilities and the subject matter of this agreement, except for injuries and damages caused by the negligence of the City.

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	3/26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

E. Covenant. The terms and provisions of this agreement constitute a covenant, which is subject to the following: This covenant is an equitable covenant. It touches and concerns the land that is described as the Property herein. The parties intend that this covenant shall bind the parties' successor and assigns. This covenant shall run with the land that is described as the Property herein, and shall bind whoever has possession of the land, in whole or in part, without regard to whether the possessor has title, or has succeeded to the same estate that granting parties have or had. Possessors shall include, but are not limited to, leasehold tenants, contract purchasers, subtenants, and adverse possessors. This covenant shall run with the land even in the absence of the transfer of some interest in land, other than the covenant itself, between Landowner and the City. This covenant shall not be governed by the mutuality rule. The burden of the covenant can run independently from the benefit of the covenant, and the benefit need not run. The benefit may be in gross or personal to Landowner or the City. Landowner waives its right to assert any defenses to the enforcement of this covenant, including, but not limited to, the change of neighborhood doctrine, laches, estoppel, balancing of hardships, and abandonment. If Landowner breaches any term of this covenant and agreement, then all remedies in equity and at law, including, but not limited to, injunctions, mandamus, declaratory judgments, and damages, shall be available to the City.

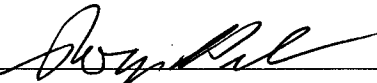
F. Governing Law & Venue. This agreement shall be governed by and construed in accordance with the laws of the State of Washington. The venue for any action that arises from or out of this instrument shall be the Pierce County Superior Court.

<Signature page to follow>


RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	4/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

HC Homes, Inc.

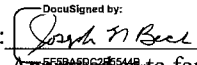
Dated: 8-28-2025

BY: 
 Roger Hebert
 President

Dated: 8/29/2025

City of Puyallup
 BY: 
 Accepted by:
 Kenneth Cook
 Development Engineering Manager

Dated: 8/28/2025

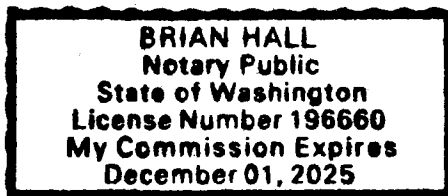
City of Puyallup
 BY: 
 Approved as to form:
 Joseph N. Beck
 City Attorney


STATE OF WA)
)
 COUNTY OF PIERCE)

-SS

On this 28TH day of AUGUST, 2025, before me personally appeared Roger Hebert, to me known to be the President of HC Homes, Inc. that executed the within and foregoing instrument, and acknowledged said instrument to be the free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he or she was authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

In Witness Whereof I have hereunto set my hand and affixed my official seal the day and year first above written.




 Printed Name: Brian Hall
 Notary Public in and for the State of WA
 Residing in: Sumner, WA
 My appointment expires: 12-01-2025

RANGE	TOWNSHIP	SECTION	QUARTER	071	5/26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Exhibit 'A' – Legal Description

A PORTION OF PIERCE COUNTY SHORT PLAT NO. 79-557, ACCORDING TO MAP RECORDED IN VOLUME 37 OF SHORT PLATS, PAGE 35, IN PIERCE COUNTY WASHINGTON MORE PARTICULARLY DESCRIBED BELOW;

LOT 1

COMMENCING AT THE NORTHWEST CORNER OF LOT 4; THENCE SOUTH 1°31'56" WEST ALONG THE EAST LINE OF LOT 4 A DISTANCE OF 556.06 FEET TO THE POINT OF BEGINNING; THENCE NORTH 70°37'29" WEST A DISTANCE OF 15.05 FEET; THENCE NORTH 71°13'24" WEST A DISTANCE OF 34.97 FEET TO A TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 10°40'27" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 61.68 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 58°54'07"; THENCE NORTH 49°52'29" EAST A DISTANCE OF 19.72 FEET TO A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 56°01'33" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 33.30 FEET WITH A RADIUS OF 60.89 FEET THROUGH A CENTRAL ANGLE OF 31°20'03"; THENCE NORTH 65°18'51" EAST A DISTANCE OF 21.03 FEET; THENCE SOUTH 59°44'44" EAST A DISTANCE OF 7.61 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 26°07'53" EAST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 8.64 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 8°14'45"; THENCE SOUTH 1°32'22" WEST A DISTANCE OF 122.52 FEET TO THE NORTH MARGIN OF 116TH STREET EAST; THENCE ALONG SAID NORTH MARGIN NORTH 88°26'14" WEST A DISTANCE OF 171.20 FEET; THENCE NORTH 1°31'56" EAST A DISTANCE OF 82.07 FEET TO THE POINT OF BEGINNING.

TRACT A

BEGINNING AT THE NORTHWEST CORNER OF LOT 4; THENCE SOUTH 1°31'56" WEST ALONG THE EAST LINE OF LOT 4 A DISTANCE OF 556.06 FEET; THENCE NORTH 70°37'29" WEST A DISTANCE OF 15.05 FEET; THENCE NORTH 71°13'24" WEST A DISTANCE OF 34.97 FEET TO A TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 10°40'27" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 61.68 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 58°54'07"; THENCE NORTH 49°52'29" EAST A DISTANCE OF 19.72 FEET TO A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 56°01'33" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 33.30 FEET WITH A RADIUS OF 60.89 FEET THROUGH A CENTRAL ANGLE OF 31°20'03"; THENCE NORTH 65°18'51" EAST A DISTANCE OF 21.03 FEET; THENCE SOUTH 59°44'44" EAST A DISTANCE OF 7.61 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 26°07'53" EAST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 8.64 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 8°14'45"; THENCE SOUTH 68°19'55" EAST A DISTANCE 10.44 FEET; THENCE SOUTH 46°23'50" EAST A DISTANCE OF 21.15 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 37°37'56" EAST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 12.50 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 11°56'28"; THENCE SOUTH 58°20'18" EAST A DISTANCE OF 19.65 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 9°17'14" EAST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 46.86 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 44°44'56"; THENCE NORTH 76°54'46" EAST FOR A DISTANCE OF 10.31 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS NORTH 61°03'34" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 100.47 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 95°56'41"; THENCE NORTH 19°01'54" WEST A DISTANCE OF 17.43 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT WHOSE CENTER BEARS SOUTH 48°12'29" WEST; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 47.67 FEET WITH A RADIUS OF 60.00 FEET THROUGH A CENTRAL ANGLE OF 45°31'13"; THENCE NORTH 0°11'44" EAST A DISTANCE OF 27.98 FEET; THENCE NORTH 3°43'41" WEST A DISTANCE OF 8.21 FEET; THENCE NORTH 7°39'05" A DISTANCE OF 37.74 FEET; THENCE NORTH 1°32'48" EAST A DISTANCE OF 319.43 FEET; THENCE NORTH 88°33'38" WEST A DISTANCE OF 342.57 FEET TO THE POINT OF BEGINNING.

SITUATE IN PIERCE COUNTY WASHINGTON

202508290513 Page 6 of 26					
RANGE	TOWNSHIP	SECTION	QUARTER	071	6/26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Exhibit ‘B’ – Operations and Maintenance Manual

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	7/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Onsite Single Family Stormwater Operation and Maintenance Manual

A stormwater maintenance program is essential to ensure that the facilities designed for this property and installed during construction, continue to function as designed to prevent possible flooding and property damage to this property and to its neighbors. They are typically a combination of vegetation management and structural components that slow, filter, detain, or infiltrate stormwater runoff on-site after a rainfall event.

A maintenance program for all stormwater controls that are associated with development is required by City code, State of Washington RCWs and Federal Guidelines. This Manual is meant to include a maintenance program that addresses every component of the onsite stormwater system, to ensure the system does not lose its intended capability to manage stormwater.

In addition, Puyallup Municipal Code requires that owners of private stormwater management facilities prepare an annual inspection report be submitted to the City of Puyallup no later than January 30th for the preceding year and the facility be available to the city for inspection at all reasonable times. These reports are required to be kept on hand, at the site for a minimum of 3 years.

Stormwater management facilities are not intended to replace good housekeeping procedures. Good housekeeping includes proper storage and disposal of chemicals and potential pollutants, procedures for spill cleanup, proper use of fertilizers and other lawn care products, and maintenance of equipment to prevent release of pollutants to the stormwater system. Guidelines for establishing good housekeeping procedures (Source Control BMPs) can be found in the Stormwater Management Manual for Western Washington.

The intent of this stormwater maintenance manual is to assist single family stormwater facility owners in performing proper maintenance of the facilities and the required reporting of maintenance procedures to the City of Puyallup.

Vegetation Management

Goals and Philosophy

The vegetation management focus is establishing and maintaining healthy low-maintenance native plantings and sustaining the design function of vegetated filters and buffers. This includes controlling invasive plants where feasible, and planting cover on bare soils.

The State of Washington recognizes the special importance of rivers, streams, wetlands, ponds, and stormwater control and treatment facilities. The sensitive nature of such habitats, their plant and animal communities, and their direct link with other waterways require that we establish specific policies to ensure their health.

RANGE	TOWNSHIP	SECTION	QUARTER	071	8/26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

General Practices

Preferred vegetation is native. However, there are non-native plants that are adaptive and drought tolerant that are acceptable to use within the stormwater facilities. Native and non-native plants are listed in the **Rain Garden Handbook for Western Washington**, appendices a-1 through a-18, and are allowed for use in plantings within the City of Puyallup.

Stormwater control facilities discharge to surface water or groundwater either directly or through pipes or ditches. Many facilities are built to remove pollutants from stormwater.

Generally, vegetation should be maintained to blend into surrounding areas. Stormwater facilities can provide habitat for aquatic life and birds. Promoting natural vegetation where feasible improves habitat. Swales often blend into intensively managed landscapes. Pond perimeters can include natural vegetation.

The use of pesticides and, in most cases fertilizer, is not compatible with the task of pollutant removal or the direct connection of stormwater facilities to streams and groundwater.

Features of Stormwater Facilities:

- There is a mix of native and non-native plants
- Generally, not used by the homeowner for recreation or other use
- Include areas managed to promote design function, such as turf in swales
- Managed landscapes may be nearby
- May be used by fish and wildlife

Objectives for Stormwater Facilities:

- Maintain healthy plant communities
- Avoid or minimize need for chemical intervention
- Control invasive plants where feasible
- No bare soil areas are allowed
- Tolerance for natural appearance and weeds

Please reference the most current accepted and available **Rain Garden Handbook for Western Washington** for approved plant lists located in appendices a-1 through a-18. Not all plants in the Rain Garden Handbook are native, please be sure to locate the correct zone and plants that will best suit your facility. Some plants, other than native, may be approved for use in storm facilities if climate adaptable, low maintenance and drought tolerant for the Puget Sound region. If you do have any questions regarding plant selections please contact the city's Stormwater management team.

In some cases, the original plantings may not be appropriate for the actual condition at a facility. One example is a frequently flooded swale that cannot support normal turf. In cases like this, replace turf with appropriate wetland plants if the underlying drainage problem cannot be fixed.

All onsite areas that were disturbed during initial construction and not initially designed to include impervious area (I.E. sidewalk, driveway, etc.) shall follow the city's vegetation management standards manual- minimum 8" soil depth, 40% compost amended soil by volume. Limit mulch use to covering bare soil while establishing plantings.

202508290513				Page 9 of 26	
RANGE	TOWNSHIP	SECTION	QUARTER	071	9/26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Chemical use should be avoided within 25 feet of any area that holds or conveys surface water or stormwater.

Annual Reporting Requirements and Storm Facility Checklists

AS MENTIONED PREVIOUSLY, PRIVATE STORMWATER FACILITY OWNERS ARE REQUIRED BY PUYALLUP MUNICIPAL CODE TO SUBMIT A REPORT TO THE CITY OF PUYALLUP STORMWATER DEPARTMENT ANNUALLY, AND KEEP THOSE REPORTS ON HAND FOR UP TO 3 YEARS.

THE FOLLOWING ARE CHECK LISTS THAT WILL HELP THE HOME OWNER INSPECT AND MAINTAIN THE SPECIFIC STORMWATER FACILITIES ON THIS PROPERTY. THESE CHECKLISTS WILL NEED TO BE USED AND FILLED OUT BASED ON THE FREQUENCY OF THE REQUIRED MAINTENANCE, AS STATED ON THE CHECKLISTS. THE COMPLETED CHECKLISTS SHALL BE SUBMITTED ALONG WITH YOUR ANNUAL REPORT.

RANGE	TOWNSHIP	SECTION	QUARTER	071	10/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

To view the stormwater site plan, go to the City of Puyallup CityView permit portal using this web address:

<https://cityview.puyallupwa.gov/Workspace/CityViewDMS/Document?id=161133>

RANGE	TOWNSHIP	SECTION	QUARTER	071	11/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Catch Basin

A catch basin is an underground concrete structure typically fitted with a slotted grate to collect stormwater runoff and route it through underground pipes. Catch basins can also be used as a junction in a pipe system and may have a solid lid. There are two types.

A Type 1 catch basin is a rectangular box with approximate dimensions of 3’x2’x5’. Type 1 catch basins are utilized when the connected conveyance pipes are less than 18 inches in diameter and the depth from the gate to the bottom of the pipe is less than 5 feet.

A Type 2 catch basin, also commonly referred to as a storm manhole, is listed separately under “Manhole” in this book.

Catch basins typically provide a storage volume (sump) below the outlet pipe to allow sediments and debris to settle out of the stormwater runoff. Some catch basins are also fitted with a spill control device (inverted elbow on outlet pipe) intended to contain large quantities of grease or debris.

Catch basins are frequently associated with all stormwater facilities.

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	12/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Key Operations and Maintenance Considerations

- The most common tool for cleaning catch basins is an industrial vacuum truck with a tank and vacuum hose (e.g. Vactor® truck) to remove sediment and debris from the sump.
- A catch basin may be an enclosed space where harmful chemicals and vapors can accumulate. Therefore, if the inspection and maintenance requires entering a catch basin, it should be conducted by an individual trained and certified to work in hazardous confined spaces.

Catch Basin			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Note: table spans multiple pages.			
General	Trash and Debris	Trash or debris which is located immediately in front of the catch basin opening or is blocking inletting capacity of the basin by more than 10%.	No trash or debris located immediately in front of catch basin or on grate opening.
		Trash or debris (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance from the debris surface to the invert of the lowest pipe.	No trash or debris in the catch basin.
		Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height.	Inlet and outlet pipes free of trash or debris.
		Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane).	No dead animals or vegetation present within the catch basin.
	Sediment	Sediment (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of 6 inches clearance from the sediment surface to the invert of the lowest pipe.	No sediment in the catch basin.
	Structure Damage to Frame and/or Top Slab	Top slab has holes larger than 2 square inches or cracks wider than 1/4 inch. (Intent is to make sure no material is running into basin.)	Top slab is free of holes and cracks.
		Frame not sitting flush on top slab, i.e., separation of more than 3/4 inch of the frame from the top slab. Frame not securely attached.	Frame is sitting flush on the riser rings or top slab and firmly attached.
	Fractures or Cracks in	Maintenance person judges that structure is unsound.	Basin replaced or repaired to design standards.

RANGE	TOWNSHIP	SECTION	QUARTER	071	13/ 26
04E-	19N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

	Basin Walls/ Bottom	Grout fillet has separated or cracked wider than 1/2 inch and longer than 1 foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering catch basin through cracks.	Pipe is regROUTED and secure at basin wall.
	Settlement/ Misalignment	Catch basin has settled more than 1 inch or has rotated more than 2 inches out of alignment.	Basin replaced or repaired to design standards.
	Vegetation Inhibiting System	Vegetation growing across and blocking more than 10% of the basin opening.	No vegetation blocking opening to basin.
		Vegetation growing in inlet/outlet pipe joints that is more than six inches tall and less than six inches apart.	No vegetation or root growth present.
	Contaminants and Pollution	Any evidence of oil, gasoline, contaminants, or other pollutants. Sheen, obvious oil, or other contaminants present. • Identify and remove source	No contaminants or pollutants present.
Catch Basin Cover	Cover Not in Place	Cover is missing or only partially in place. Any open catch basin requires maintenance.	Catch basin cover is closed.
	Locking Mechanism Not Working	Mechanism cannot be opened by one maintenance person with proper tools. Bolts into frame have less than 1/2 inch of thread. One or more bolts are missing.	Mechanism opens with proper tools. All bolts are seated and no bolts are missing. Cover is secure.
	Cover Difficult to Remove	One maintenance person cannot remove lid after applying normal lifting pressure (Intent is to keep cover from sealing off access to maintenance).	Cover can be removed by one maintenance person.
Metal Grates (If Applicable)	Grate Opening Unsafe	Grate with opening wider than 7/8 inch.	Grate opening meets design standards.
	Trash and Debris	Trash and debris that is blocking more than 20% of grate surface inletting capacity.	Grate free of trash and debris.
	Damaged or Missing	Grate missing or broken member(s) of the grate.	Grate is in place and meets design standards.
Oil/Debris Trap (If Applicable)	Dislodged	Oil or debris trap is misaligned with or dislodged from the outlet pipe.	Trap is connected to and aligned with outlet pipe.

RANGE	TOWNSHIP	SECTION	QUARTER	071	14/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Compost-Amended Soil

Naturally occurring (undisturbed) soil and vegetation provide important stormwater functions including: water infiltration; nutrient, sediment, and pollutant adsorption; sediment and pollutant biofiltration; water interflow storage and transmission; and pollutant decomposition.

Compaction from construction can reduce the soil's natural ability to provide these functions. Compost-amended soils are intended to replace these lost functions by establishing a minimum soil quality and depth in the post-development landscape.

Sufficient organic content is a key to soil quality. Soil organic matter can be attained through numerous amendments such as compost, composted woody material, biosolids, and forest product residuals. The full benefits of compost-amended soils are realized when desired soil media depths are maintained and soil compaction is minimized.

Key Operations and Maintenance Considerations

- Replenish soil media as needed (as a result of erosion) and address compacted, poorly draining soils.
- Site uses should protect vegetation and avoid soil compaction. Care should be taken to prevent compaction of soils via vehicular loads and/or excessive foot traffic, especially during wet conditions.
- The table below provides the recommended maintenance frequencies, standards, and procedures for compost-amended soils. The level of routine maintenance required and the frequency of corrective maintenance actions may increase for facilities prone to erosion due to site conditions such as steep slopes or topography tending to concentrate flows.

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	15/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Compost-Amended Soil			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Soil Media	Soils Waterlogged or Not Infiltrating	Soils become waterlogged, or otherwise do not appear to be infiltrating.	Soils have been aerated or amended such that infiltration occurs and soils to not remain completely saturated, per design specifications.
	Erosion/Scouring	Areas of potential erosion are visible, such as gullies or scouring.	Any eroded areas have been repaired, and sources of erosion addressed to prevent further soil erosion.
Vegetation	Vegetation in Poor Health	Less than 75% of planted vegetation is healthy with a generally good appearance.	At least 75% of planted vegetation is healthy with generally good appearance. Any conditions found that were deleterious to plant health have been corrected where possible. Routine maintenance schedule has been updated as necessary to ensure continued plant health and satisfactory appearance.
	Poisonous Plants and Noxious Weeds	Any poisonous plants or nuisance vegetation which may constitute a hazard to maintenance personnel or the public. Any evidence of noxious weeds as defined by State or local regulations.	No danger of poisonous vegetation where maintenance personnel or the public might normally be. Eradication of Class A weeds as required by State law. Control of other listed weeds as directed by local policies. Apply requirements of adopted IPM policy for the use of herbicides.
	Other Weeds Present	Other weeds (not listed on City/State noxious weed lists) are present on site.	Weeds have been removed per the routine maintenance schedule, following IPM protocols.

RANGE	TOWNSHIP	SECTION	QUARTER	071	16/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Conveyance Pipe

Storm sewer pipes convey stormwater. Inlet and outlet stormwater pipes convey stormwater in, through, and out of stormwater facilities.

Pipes are built from many materials. Pipes are cleaned to remove sediment or blockages when problems are identified. Stormwater pipes must be clear of obstructions and breaks to prevent localized flooding. All stormwater pipes should be in proper working order and free of the possible defects listed below.

Key Operations and Maintenance Considerations

- The most common tool for cleaning stormwater conveyance pipes is a truck with a tank, vacuum hose, and a jet hose (Vactor® truck) to flush sediment and debris from the pipes.

Conveyance Pipe			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
General	Contaminants and Pollution	Any evidence of oil, gasoline, contaminants, or other pollutants. Sheen, obvious oil, or other contaminants present. <ul style="list-style-type: none"> Identify and remove source. 	No contaminants or pollutants present.
	Obstructions, Including Roots	Root enters or deforms pipe, reducing flow.	Roots have been removed from pipe (using mechanical methods; do not put root-dissolving chemicals in storm sewer pipes). If necessary, vegetation over the line removed.
	Sediment and Debris	Sediment depth is greater than 20% of pipe diameter.	Pipe has been cleaned and is free of sediment/ debris. (Upstream debris traps installed where applicable.)
	Debris Barrier or Trash Rack Missing	Stormwater pipes > than 18 inches need debris barrier.	Debris barrier present on all stormwater pipes 18 inches and greater.
	Damage to protective coating or corrosion	Protective coating is damaged; rust or corrosion is weakening the structural integrity of any part of pipe.	Pipe repaired or replaced.
	Damaged	Any dent that decreases the cross section area of pipe by more than 20% or is determined to have weakened structural integrity of the pipe.	Pipe repaired or replaced.

RANGE	TOWNSHIP	SECTION	QUARTER	071	17 /26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Downspout Dispersion Trench

Downspout dispersion trench systems consist of gravel-filled trenches, which serve to spread roof runoff over vegetated pervious areas.

Facility objects that are typically associated with downspout dispersion trench include:

- Dispersion trench: Gravel-filled trenches used to spread stormwater runoff from a downspout drain over a vegetated pervious area. Downspout drains are routed to a trench via a perforated or slotted pipe. The trench typically includes a notched grade board or other device to distribute flow equally along the length of the trench.
- Dispersal area: Stormwater is dispersed to an area vegetated with well-established lawn or pasture, landscaping with well-established groundcover, or native vegetation with natural groundcover. The required vegetated flow path is 50 feet for splash blocks and concentrated dispersion, 25 feet when using a dispersion trench and varies for sheet flow dispersion.

Key Operations and Maintenance Considerations

- For dispersion practices to be effective, the dispersion area must remain covered with dense, well-established vegetation. Site uses should protect vegetation and avoid compaction.
- A notched grade board at a dispersion trench must be maintained at a level grade to prevent concentrated flow. Downspout drains are directed to the trench via a storage sump that must be maintained to remove accumulated sediment.
- The groundcover for the extent of the flow in any dispersal area must be maintained to be dense enough to help disperse and infiltrate flows and to prevent erosion.
- The most common tools for cleaning these systems are hand tools to redistribute material disturbed by concentrated flows and a hose to flush downspouts.

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	18/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Downspout Dispersion Trench			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Note: table spans multiple pages.			
General	Pests	Signs of pest infestations (IPM protocol threshold(s) are exceeded), including rodent holes or mounds that disturb dispersion flow paths.	Pests are not present or engaged in activities that present a significant public health risk or compromise to the intended design function of the facility. Pests that have exceeded acceptable thresholds have been addressed using appropriate IPM measures.
Dispersion Trench	Concentrated Discharge	Visual evidence of water discharging at concentrated points along trench (normal condition is a "sheet flow" from edge of trench; intent is to prevent erosion damage).	Water is discharging as a sheet flow and any disruptive material (e.g. trash, debris, sediment accumulation) has been removed from trench surface.
	Surface of Trench	Accumulated trash, debris, or sediment on drain rock surface impedes sheet flow from facility. Vegetation/moss present on drain rock surface impedes sheet flow from facility.	Surface of drain rock is free of trash, debris, and sediment accumulation. Rock surface is open, free of vegetation buildup, and drains freely.
	Damage to or Trash/Sediment Accumulation Around Pipes	Accumulation of trash, debris, or sediment in roof drains, gutters, driveway drains, area drains, etc. Pipe from sump to trench or drywell has accumulated sediment or is plugged. Cracked, collapsed, broken, or misaligned drain pipes.	Trash, debris, and sediment is cleared from dispersion trench components (gutters, pipes, etc.). Pipes are free of damage or defects that hinder system from functioning according to design.
Storage Sump	Sediment in Sump	Sediment in the sump.	Sediment not present in sump. Sediment has also been removed from adjacent components (inlet/outlet pipes, etc.) to prevent immediate re-accumulation.
	Access Lid Not Working	Cannot be easily opened; buried; or cover missing.	Access lid present and functioning per design standards.
	Erosion	Erosion of the pond's side slopes and/or scouring of the pond bottom, which exceeds 6-inches, or where continued erosion is prevalent.	Slopes stabilized using proper erosion control measures and repair methods.
Rock Pad	General	Only one layer of rock exists above native soil in area 6 square feet or larger, or any exposure of native soil. Soil erosion in or adjacent to rock pad.	Rock pad has been repaired or replaced to meet design standards.

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	19/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Downspout Dispersion Trench			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Note: table spans multiple pages.			
Dispersal Area	Erosion or Sediment Accumulation	Erosion (gullies/ rills) greater than 2 inches deep in dispersal area. Accumulated sediment or debris to extent that blocks or channelizes flow path.	Cause of erosion has been eliminated and the damaged area has been repaired and stabilized.
	Standing Water After Storm Event	Standing surface water in dispersion area remains for more than 3 days after the end of a storm event.	Standing water drains within 72 hours of a storm event.
	Transition Zone Erosion and Sizing	Adjacent soil erosion; uneven surface creating concentrated flow discharge; or less than two feet of width.	Transition zone meets design criteria and does not exhibit erosion or other evidence of concentrated flows.
	Poor Vegetation Cover	Poor vegetation cover such that erosion is occurring.	Vegetation has been properly watered and established to meet facility design specifications.
	Excessive Vegetation Cover	Vegetation inhibits dispersed flow along flow path.	Vegetation has been weeded, trimmed, pruned, or thinned to meet facility design criteria.

RANGE	TOWNSHIP	SECTION	QUARTER		20/
04E-	19 N-	09	01	071	26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Downspout Infiltration - Infiltration Trench

Roof downspout infiltration systems with infiltration trenches are simple pre-engineered designs for infiltrating roof runoff in residential yards.

Key Operations and Maintenance Considerations

- Keep gutters free of debris and sediment or use a downspout insert to prevent debris or sediment from entering the downspout from the gutter while still allowing water to pass into the downspout.
- The most common tool for cleaning these systems is a hose to flush downspouts.

Downspout Infiltration - Infiltration Trench			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Infiltration Trench	Drainage Slow	Decreased capacity that indicates slow drainage.	Perforated drain pipe has been cleaned and drainage rates are per design specifications. (Do not allow removed sediment and water to discharge back into the storm sewer.)
	Damage to or Trash/Sediment Accumulation Around Pipes	Accumulation of trash, debris, or sediment in roof drains and gutters. Pipe from sump to trench has accumulated sediment or is plugged. Cracked, collapsed, broken, or misaligned drain pipes.	Trash, debris, and sediment is cleared from dispersion trench components (gutters, pipes, etc.). Pipes are free of damage or defects that hinder system from functioning according to design.

RANGE	TOWNSHIP	SECTION	QUARTER	071	21/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Grounds

Grounds (Landscaping)			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
Site	Trash or litter	Any trash and debris which exceed 1 cubic foot per 1,000 square feet (this is about equal to the amount of trash it would take to fill up one standard size office garbage can). In general, there should be no visual evidence of dumping.	Trash and debris cleared from site.
	Noxious weeds	Any noxious or nuisance vegetation which may constitute a hazard to County personnel or the public.	Noxious and nuisance vegetation removed according to applicable regulations. No danger of noxious vegetation where County personnel or the public might normally be.
	Contaminants and pollution	Any evidence of contaminants or pollution such as oil, gasoline, concrete slurries or paint.	Materials removed and disposed of according to applicable regulations. Source control BMPs implemented if appropriate. No contaminants present other than a surface oil film.
	Grass/groundcover	Grass or groundcover exceeds 18 inches in height.	Grass or groundcover mowed to a height no greater than 6 inches.
Trees and Shrubs	Hazard	Any tree or limb of a tree identified as having a potential to fall and cause property damage or threaten human life. A hazard tree identified by a qualified arborist must be removed as soon as possible.	No hazard trees in facility.
	Damaged	Limbs or parts of trees or shrubs that are split or broken which affect more than 25% of the total foliage of the tree or shrub.	Trees and shrubs with less than 5% of total foliage with split or broken limbs.
		Trees or shrubs that have been blown down or knocked over.	No blown down vegetation or knocked over vegetation. Trees or shrubs free of injury.
		Trees or shrubs which are not adequately supported or are leaning over, causing exposure of the roots.	Tree or shrub in place and adequately supported; dead or diseased trees removed.

RANGE	TOWNSHIP	SECTION	QUARTER		22/
04E-	19 N-	09	01	071	26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Sheet Flow and Concentrated Flow Dispersion

Dispersion attenuates peak flows by slowing the runoff entering into the conveyance system, allowing some infiltration, and providing some water quality benefits. The following two types of dispersion systems are covered in this section:

- **Sheet flow dispersion systems:** Sheet flow dispersion is the simplest method of runoff control. This BMP can be used for any impervious or pervious surface that is graded to avoid concentrating flows. Because flows are already dispersed as they leave the surface, they need only traverse a narrow band of adjacent vegetation for effective attenuation and treatment.
- **Concentrated dispersion systems:** Dispersion of concentrated flows from driveways or other pavement through a vegetated pervious area.

Facility objects that are typically associated with sheet flow and concentrated dispersion include:

- **Transition zone (sheet flow dispersion):** A 2-foot-wide transition zone is typically included to discourage channeling between the edge of the impervious surface (or building eaves) and the downslope vegetation. This transition zone may consist of an extension of subgrade material (crushed rock), modular pavement, drain rock, or other material.
- **Rock pad at discharge point (concentrated flow dispersion):** A rock pad must be maintained to provide energy dissipation and initial dispersion at any point that a concentrated flow enters a dispersion area.
- **Dispersal area:** Stormwater is dispersed to an area vegetated with well-established lawn or pasture, landscaping with well-established groundcover, or native vegetation with natural groundcover.

Key Operations and Maintenance Considerations

- For dispersion practices to be effective, the dispersion area must remain covered with dense, well-established vegetation. Site uses should protect vegetation and avoid compaction.
- The groundcover for the extent of the flow in any dispersal area must be maintained to be dense enough to help disperse and infiltrate flows and to prevent erosion.
- The most common tools for cleaning these systems are hand tools to redistribute material disturbed by concentrated flows.

RANGE	TOWNSHIP	SECTION	QUARTER	071	23/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Sheet Flow and Concentrated Flow Dispersion			
Drainage System Feature	Potential Defect	Conditions When Maintenance Is Needed	Minimum Performance Standard
General	Pests	Signs of pest infestations (IPM protocol threshold(s) are exceeded), including rodent holes or mounds that disturb dispersion flow paths.	Pests are not present or engaged in activities that present a significant public health risk or compromise to the intended design function of the facility. Pests that have exceeded acceptable thresholds have been addressed using appropriate IPM measures.
Dispersion Trench	Concentrated Discharge	Visual evidence of water discharging at concentrated points along trench (normal condition is a "sheet flow" from edge of trench; intent is to prevent erosion damage).	Water is discharging as a sheet flow and any disruptive material (e.g. trash, debris, sediment accumulation) has been removed from trench surface.
	Surface of Trench	Accumulated trash, debris, or sediment on drain rock surface impedes sheet flow from facility. Vegetation/moss present on drain rock surface impedes sheet flow from facility.	Surface of drain rock is free of trash, debris, and sediment accumulation. Rock surface is open, free of vegetation buildup, and drains freely.
	Damage to or Trash/Sediment Accumulation Around Pipes	Accumulation of trash, debris, or sediment in driveway drains and area drains, etc. Pipe from sump to trench has accumulated sediment or is plugged. Cracked, collapsed, broken, or misaligned drain pipes.	Trash, debris, and sediment is cleared from dispersion trench components Pipes are free of damage or defects that hinder system from functioning according to design.
Rock Pad	General	Only one layer of rock exists above native soil in area 6 square feet or larger, or any exposure of native soil. Soil erosion in or adjacent to rock pad.	Rock pad has been repaired or replaced to meet design standards.
Dispersal Area	Erosion or Sediment Accumulation	Erosion (gullies/ rills) greater than 2 inches deep in dispersal area. Accumulated sediment or debris to extent that blocks or channelizes flow path.	Cause of erosion has been eliminated and the damaged area has been repaired and stabilized.
	Standing Water After Storm Event	Standing surface water in dispersion area remains for more than 3 days after the end of a storm event.	Standing water drains within 72 hours of a storm event.
	Transition Zone Erosion and Sizing	Adjacent soil erosion; uneven surface creating concentrated flow discharge; or less than two feet of width.	Transition zone meets design criteria and does not exhibit erosion or other evidence of concentrated flows.
	Poor Vegetation Cover	Poor vegetation cover such that erosion is occurring.	Vegetation has been properly watered and established to meet facility design specifications.
	Excessive Vegetation Cover	Vegetation inhibits dispersed flow along flow path.	Vegetation has been weeded, trimmed, pruned, or thinned to meet facility design criteria.

202508290513 Page 24 of 26					
RANGE	TOWNSHIP	SECTION	QUARTER	071	24/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Exhibit C – Annual Inspection Report Form

Annual Inspection Report
City of Puyallup - Stormwater BMP Facilities Inspection and Maintenance Log

Facility Name

Address

Begin DateEnd Date

Date	BMP ID#	BMP Facility Description	Inspected by:	Cause for Inspection	Exceptions Noted	Comments and Actions Taken

Instructions:
Record all inspections and maintenance for all treatment BMPs on this form. Use additional log sheets and/or attach extended comments or documentation as necessary. Submit a copy of the completed log with the Annual Independent Inspectors' Report to the City, and start a new log at that time.

BMP ID# — Always use ID# from the Operation and Maintenance Manual.
Inspected by — Note all inspections and maintenance on this form, including the required independent annual inspection.
Cause for inspection — Note if the inspection is routine, pre-rainy-season, post-storm, annual, or in response to a noted problem or complaint.
Exceptions noted — Note any condition that requires correction or indicates a need for maintenance.
Comments and actions taken — Describe any maintenance done and need for follow-up.

Return Form to: Stormwater Engineer / City of Puyallup
333 South Meridian
Puyallup, WA 98371

RANGE	TOWNSHIP	SECTION	QUARTER		
04E-	19 N-	09	01	071	25/ 26
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER

Annual Inspection Report

City of Puyallup - Stormwater BMP Facilities Inspection and Maintenance Log

Facility Name

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RANGE	TOWNSHIP	SECTION	QUARTER	071	26/ 26
04E-	19 N-	09	01		
DOCUMENT NUMBER				SERIAL NUMBER	PAGE NUMBER