

# STORMWATER SYSTEMS



TOP VIEW  
SCALE: N.T.S

24" Ø CAST IRON F  
ALTERNATE HATCH







Designed to satisfy specific applications or achieve regulatory requirements, Jensen Stormwater Systems can deploy as standalone systems or as part of a Treatment Train solution for pretreatment, detention, infiltration, biofiltration, and rainwater harvesting.





# STORMWATER SYSTEMS

Stormwater management in the modern landscape involves far more than collecting and conveying storm events off a development site to protect property and life from flood hazards. Today's stormwater management requires best management practices that materially address water quality improvement and volume control, as well as preventing existing drainage capacities from being overwhelmed during storm events. Low Impact Development (LID) best management practices are often the preferred means of achieving these goals. Current stormwater management practices emphasize stormwater runoff as a valuable natural resource and give it new life by restoring its quality, rerouting it to prevent detrimental impacts, better matching its pre-development flow and facilitating its potential harvesting for reuse. Regulatory requirements are based on these basic goals in order to support well-functioning, thriving communities, and prevent avoidable catastrophes.

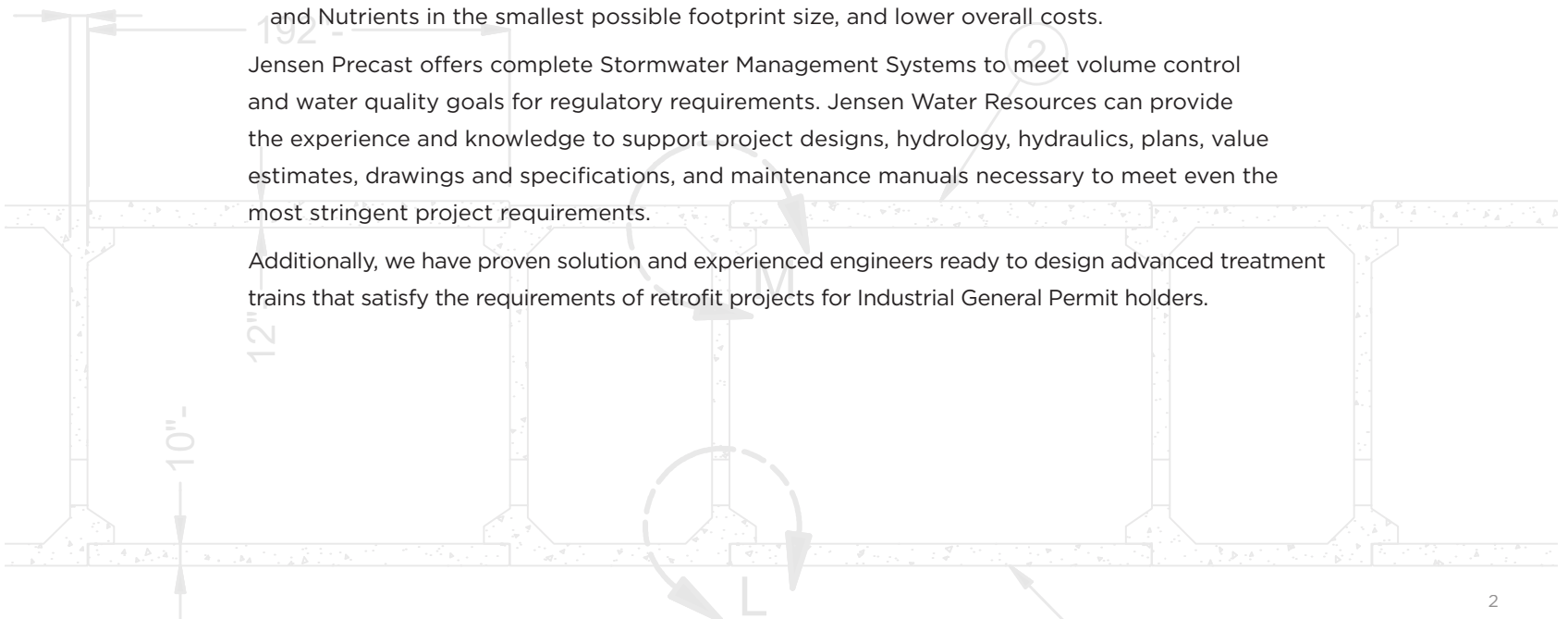
Straightforward as these points appear on the surface, ensuring a seamless journey from start to finish requires clever solutions for unique situations, well thought out products and ever evolving management systems.

Here are a few considerations development planners, engineers and contractors may take into account when managing stormwater projects.

- Does the product manufacturer you want to work with offer solutions for all points of the stormwater life cycle? Choose a company with a robust product line for volume and release controls, treatment and water quality improvement, flow diversion and bypass, and rainwater harvesting.
- Are you designing or delivering for long lasting performance and efficiency in stormwater treatment? Look for products built to handle high flow conditions, with full capture abilities, and design elements that allow for minimal and easy maintenance.
- Is your project focused on volume control? Pick a modular system that provides large storage capacity, regulates discharge flow rate, and supports your water quality and erosion control goals.
- How will you guarantee the best outcome for your biofiltration project? Go with a dynamic, specially engineered design that allows for complete removal of Total Suspended Solids, Metals and Nutrients in the smallest possible footprint size, and lower overall costs.

Jensen Precast offers complete Stormwater Management Systems to meet volume control and water quality goals for regulatory requirements. Jensen Water Resources can provide the experience and knowledge to support project designs, hydrology, hydraulics, plans, value estimates, drawings and specifications, and maintenance manuals necessary to meet even the most stringent project requirements.

Additionally, we have proven solution and experienced engineers ready to design advanced treatment trains that satisfy the requirements of retrofit projects for Industrial General Permit holders.





## DESIGN

- Receive typical and site specific plan and profile drawings for all Jensen Stormwater System Units with engineer's value estimates.
- Leverage our readily available tools to support storage and runoff calculations, size our systems, and satisfy stormwater management goals.
- Take advantage of Jensen Precast's LID systems to seamlessly integrate our biofiltration and infiltration, and rainwater harvesting designs into areas with limited space.
- Meet Full Capture requirements with state certified treatment systems.



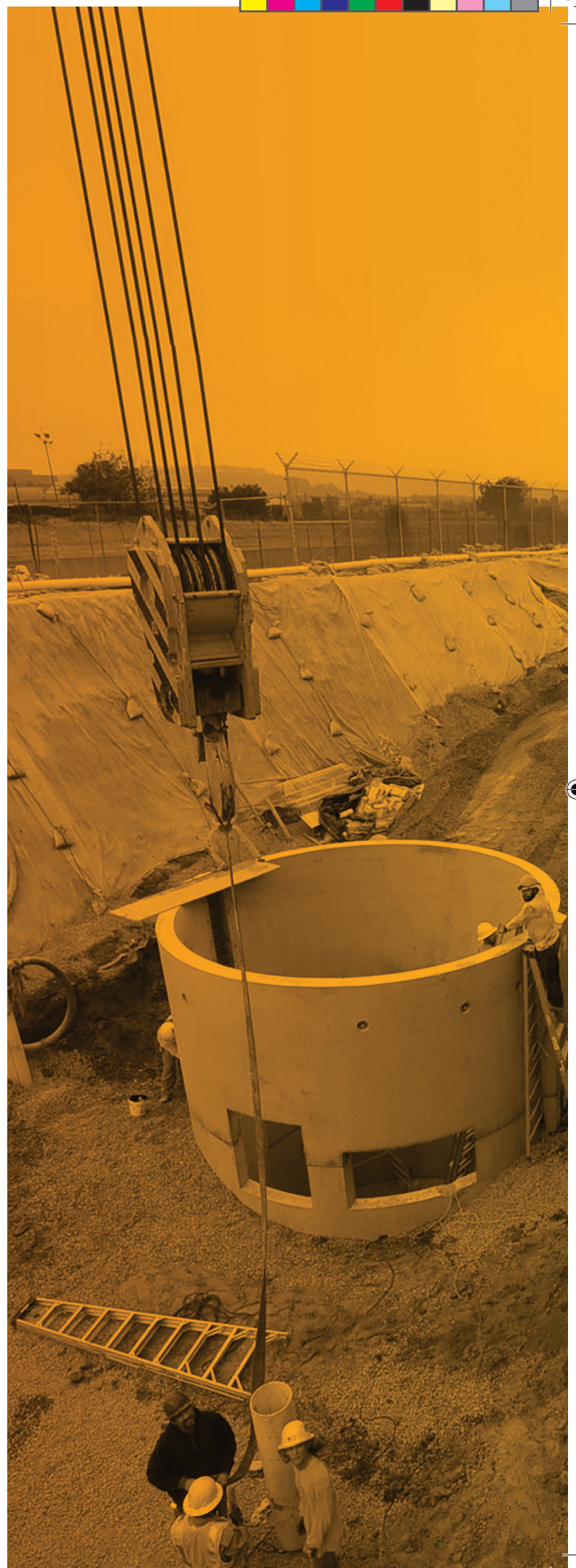
## BID

- Create competitive bids with quantified, specific information and pricing.
- Get installation weights and guidance to support estimation of your installation effort.
- No hidden installation requirements or costs.



## BUILD

- Complete your projects on time with well constructable plans inherent into all Jensen Precast products for installations that are quick and easy.
- Secure, safe delivery and timely setting of your stormwater management systems with our expert drivers and delivery personnel.
- Gain peace of mind with our easy to maintain systems that require minimal upkeep and safe access post install.





# APPLICATIONS

## VOLUME CONTROL

- Detention
- Retention
- Infiltration
- Release / Discharge Flow Controls

## WATER QUALITY

- Full Capture of Trash and Debris
- Total Suspended Solids (TSS)
- Metals
- Nutrients
- Total Petroleum Hydrocarbon
- Physical and Chemical Filtration (Media or Membrane)
- Water Quality Diversion & High Flow Bypass

## LOW IMPACT DEVELOPMENT

- Biotreatment Soil Media (BSM) for biofiltration
- Biodetention and Bioretention
- Bioinfiltration
- Slow Sand Filtration

## RAINWATER HARVESTING

- Reuse Flow Diversion
- Pretreatment
- Cistern
- RWH Pump Station



# SOLUTIONS

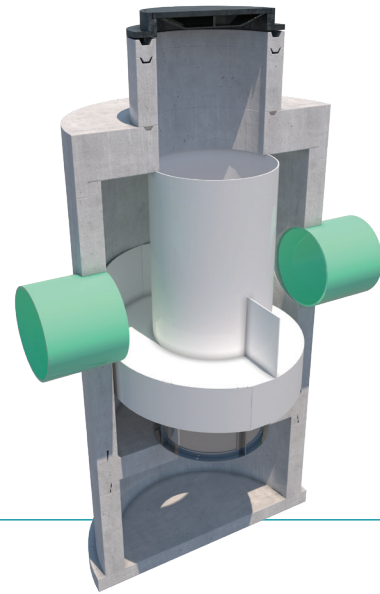
- Unobtrusive treatment and volume control systems designed for at surface and underground installations that handle the severe loading conditions to maximize the development's land use.
- Specially engineered media and membrane filters and other unique designs enable treatment of a larger range of flow rates than classic water quality treatment systems.
- Modular stormwater storage systems for large detention and infiltration needs, while off the shelf sizing options in precast vaults and holding tanks are ideal for smaller jobs.
- Dynamic options allow for full system integration or standalone units to solve the needs for all development projects and meet all regional, state, and agency requirements.





## HYDRODYNAMIC SEPARATION

With no moving parts, the Jensen Deflective Separator (JDS) is uniquely able to screen trash and debris including floatables and both neutrally and negatively buoyant materials, from stormwater, all without blocking the screen. The JDS also captures total suspended solids (TSS), oil, grease, and other total petroleum hydrocarbon (TPH) pollutants from stormwater runoff. Captured pollutants are retained without scouring, even under high-flow bypass conditions.

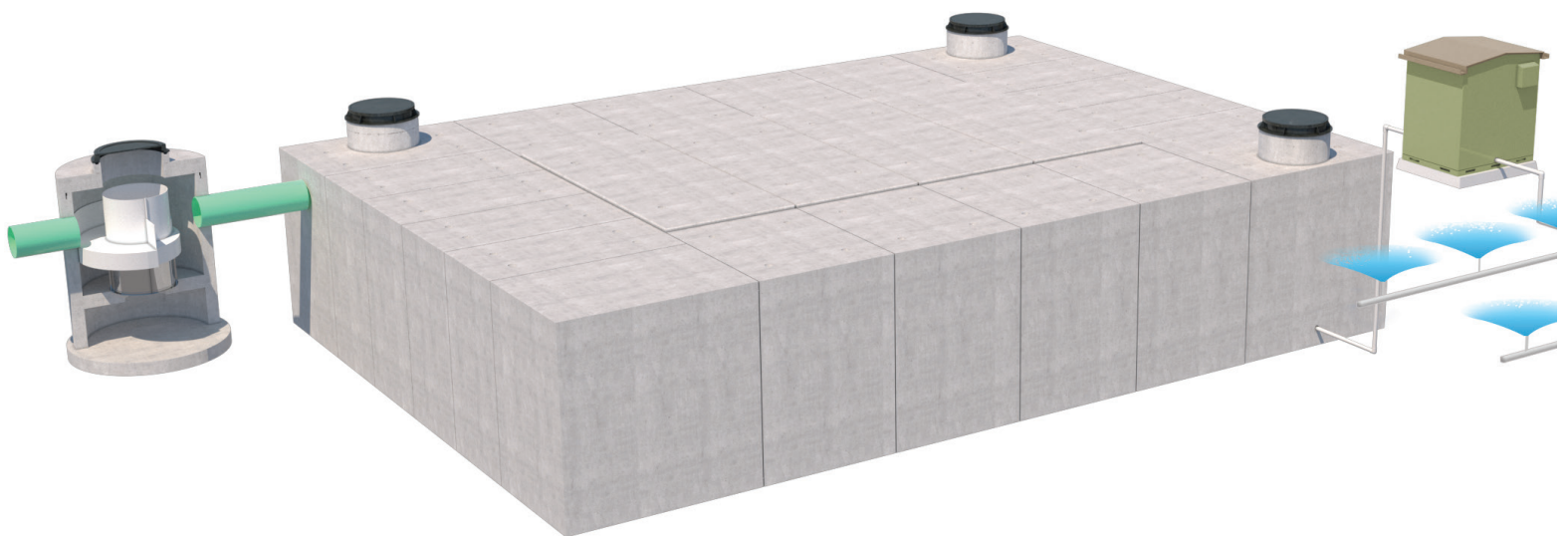


## COALESCING SEPARATORS

Coalescing plate separators feature enhanced gravity oil, water, and sediment separation. Using plate separator technology, coalescing systems are the true method of separating a liquid from a liquid, as well as fine TSS. Oil sorbent mats enable the permanent capture of free oil and grease, reducing the level of maintenance. Standard units as well as customized designs are available to address project-specific needs.

## DETENTION, RETENTION, INFILTRATION AND CISTERN

The Jensen Detention Reservoir (JDR) is a precast modular stormwater storage system comprised of patented, specialty reinforced box culvert sections and precast concrete spanning slabs. The resulting solution achieves the most economical means to meet small and large scale detention and infiltration requirements for all development and retrofit projects. The system supports project-specific storage volume, runoff flow rates, water quality, and erosion control goals. Especially where space is tight and land costs are significant, the JDR detention and infiltration system maximizes the intended land use of the development.





## SEDIMENTATION SYSTEMS

Sedimentation systems offer a tried and true method for managing stormwater quality and volume control. Jensen Stormwater Systems offers structural solutions for large and small scale applications.

The Jensen Precast High Velocity Interceptor (JPHV) is a stormwater interceptor designed to capture and retain trash, grease, oil, sand, and grit found on streets and parking lots for all around gross pollutant management.

The StormVault is an advanced sedimentation structural BMP developed in conjunction with Wright Water Engineers and the Colorado State Hydraulics Laboratory. The product has provided unprecedented stormwater capture and treatment for the last 20 years. Stormvault™ is designed to capture up to 85% of all runoff—then slowly release it to receiving waters. This capture-and-controlled release is specifically designed to catch small particles and minimize their resuspension by treating that portion of runoff containing the highest percentage of pollutants, including “the first flush” of the larger events and to provide peak flow attenuation to reduce downstream erosion. Stormvault™ significantly reduces post-development runoff flow rates, stream channel degradation, and destruction of aquatic habitats.

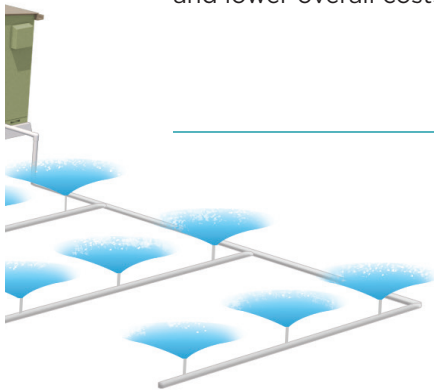
## BIOFILTRATION AND BIORETENTION

The StormVault Biofiltration System is a simple and highly versatile bioretention stormwater treatment solution. Through filtration, adsorption, and biological processes, StormVault Biofiltration efficiently removes Total Suspended Solids (TSS), metals, nutrients, oil and grease from stormwater runoff to meet water quality standards. With specially engineered filter media, the system can treat higher flows than conventional bioretention units, allowing for a smaller footprint size and lower overall costs.



## FILTRATION

Jensen Stormwater Systems provides simple physical or chemical filtration in upflow cartridges or media beds as well as membrane cartridge systems. Our filtration systems achieve the more stringent effluent water quality requirements.





Jensen Precast designs, engineers, and manufactures precast concrete products for the growing infrastructure needs of communities, businesses, and government agencies.



Jensen Water Resources delivers complete systems for the most demanding stormwater, pump station, and onsite wastewater projects. We collaborate with engineers and contractors to enable the best design, bid, and build outcomes for your unique project needs.

Water Resources  
**PRODUCT  
LINES**



## LOCATIONS & CONTACT

### CORPORATE OFFICE

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Jensen Precast is ready to assist you with job quotes, designs, and products. Contact your nearest branch location or reach us at (775) 352-2700 or [info@jensenprecast.com](mailto:info@jensenprecast.com)



For more information, go to [jensenprecast.com](http://jensenprecast.com)