

## Stormwater

- ARAP Permit Required  
  - Advisory Comment  
    - Advisory comment: An Aquatic Resource Alteration Permit (ARAP) is required to alter the pond/wetland/stream onsite. A notice of coverage (NOC) will be required before site permits are issued at the site plan stage.
  - ARAP Permit  
    - Your project has triggered the ARAP permit requirements. Please upload the NOC once it is issued. Please note; no site permits will be issued until the NOC is received.

<http://www.tennessee.gov/environment/article/permit-water-aquatic-resource-alteration-permit>

- Bioretention  
  - Additional Plantings  
    -

Include at least 2 individuals from each of the following species in the bioretention area.  
 -Assimina triloba  
 -Any native species from the Asclepias genus  
 -Any native species from the Monarda genus

- Bioretention Area Elevations  
  - Applicant shall show elevations for the following (if applicable) for each bioretention area onsite:

Bioretention	Subgrade Elevation	Top of Stone Elevation & Depth	Underdrain Invert Elevation	Top of Soil Elevation & Depth	Berm Elevation	Top of Casting the Outfall Structure
Area 1						

- Bioretention Protection  
  - Applicant shall protect bioretention areas from soil compaction/ sedimentation by wrapping the areas in silt fence or other appropriate type of fencing. Protection shall be shown on EPSC sheets.
- Curb Cuts  
  - Applicant shall call out the location of the curbs cuts at all bioretention areas. Curb cut locations shall not cause the bioretention area to short circuit.
- Detail  
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Ensure bioretention details **AND ALL** notes match those called out and provided on the City details. City details shall not be used for construction details due to potential variability (soils layer, underdrains, etc) in design specifications. They are to provide guidance to the design engineer in preparing site specific details which are **required**. The City's guidance details can be found at: <http://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development/standard-construction-documents>

- Filter Fabric  
  - Due to recent advances in research, applicant shall remove all filter fabric from bioretention detail. A 3" choker stone layer (#8 stone) shall be added between the sub base stone and the soil layer. Filter fabric between native soils and entire bioretention area shall be removed as well.
- Groundcover  
  - Specify groundcover to be used in bioretention areas
- Milkweed  
  - 5-10% of bioretention vegetation shall be composed of native milkweed species
- Native Plantings  
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Only Tennessee native plants shall be installed in the bioretention areas. Acceptable bioretention plantings can be found in the City's BMP manual in the bioretention section on p230 located at: <http://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development/2016-bmp-manual>

- Pretreatment  
  - Level 2 bioretention areas require two forms of pretreatment. Level 1 bioretention areas require one form of pretreatment.

If concentrated flow is entering a bioretention area, a pretreatment forebay shall be provided, which can count as one form of pretreatment.

A site specific detail showing how the pretreatment measures will tie into the bioretention grades and the [city approved details](#) shall be provided. See the [BMP Manual](#) for design guidelines of approved pretreatment measures.
- Schedule  
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Provide a separate Plant Schedule for the bioretention areas

- Seed Mix Performance  
  - Provide note:  
  
Bioretention seed mix shall achieve 70% vegetated cover within a 2 year period or landscaping bonds shall be withheld.
- Sequencing  

- Place the following note on all bioretention construction details and EPSC sheets:

#### **Bioretention Cell or Water Quality Swale Construction Sequencing**

1. Contractor is to provide method of diverting runoff flow around the construction of the bioretention area during periods of rainfall to ensure sediment does not enter bioretention area
2. Excavate bioretention area. Excavators or backhoes should work from the sides to excavate the bioretention area to the design depth and dimensions. Excavating equipment should have scoops with adequate reach so they do not sit inside the footprint of the bioretention area
3. Scarify subgrade by ripping the bottom soils to a depth of 12 inches prior to stone placement
4. **CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218**
5. Install washed stone layer. Install underdrain pipes and connect to the outlet structure. Install additional stone on the underdrain pipes as per the bioretention section detail. Contractor to flag the underdrain locations (3 FT each side) as the additional sections are being installed. A small bobcat loader is to be used for placement of additional sections and is to avoid accessing the areas of the underdrain pipe installation to prevent damage to the perforated pipe.
6. Install permeable geotextile fabric.
7. Deliver the soil media and store it on plastic sheeting with the appropriate erosion control measures on the downhill and bioretention sides.
8. **CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218**
9. Install the soil media in 12" lifts until the desired top elevation is achieved. Wait a few days to check for settlement and add additional media as needed to achieve the design elevations. **DO NOT COMPACT WITH EQUIPMENT.**
10. Prepare planting holes for any trees and shrubs, install the vegetation and water accordingly
11. Install specified groundcover in bottom of bioretention area
12. Sod slopes
13. Contractor to flag limits of bioretention basin for survey to locate and show on AS-BUILT plans.

#### ○ Soils

- Provide note in bioretention detail that soil composition shall be the following:

40% Silt  
30% Sand  
20% Clay  
10% Organics

#### ○ Species and coverage requirement

- On the bioretention landscape sheet;
  - Include required and provided surface square footage of bioretention areas
  - Include whether the bioretention area is level I or II
  - Include type of planting template and justification for use; Ornamental, Meadow, or Reforestation. See page 19 GIP-01 Bioretention Section 5 for explanation of planting templates.
  - Specify ground cover (river rock, mulch, pine straw)
  - At least 5% of vegetation shall be a native milkweed species

NOTE: When choosing and designing a planting template please take a into consideration the surrounding setting, use and maintenance responsibilities. Resources for different property owners may be different.

Ensure for the following:

Level I bioretention

A planting plan to include perennials, grasses, sedges **OR** shrubs to achieve a surface area coverage of at least 75% (this shall correspond to your planting template chosen). 5-10% of the species shall be composed of a native Tennessee milkweed variety. Shrubs must equal minimum 3 gallon or 18"-24" at 4' OC. Grasses, sedges, perennial should match max spacing as called for in Tables 1.4, 1.5, and 1.6 for bioretention areas. Other species may be approved on a case by case basis.

Level II bioretention

The same as Level I above PLUS one 2" caliper tree per 400 sqft of surface area. This can count towards the landscape ordinance site requirements

Bioretention species must be chosen from the approved native materials found in Tables 1.4-1.8 of the City's BMP manual Section 5.

<https://www.franklintn.gov/home/showdocument?id=22735>

Bioretention and other BMP landscape requirements can be found in Section 5 Permanent Stormwater Treatments Controls at:

<https://www.franklintn.gov/home/showdocument?id=22735>

- Bridge Crossing  
- Bridge Crossing  
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Bridge crossings shall be an open bottom culvert. Footers shall be located outside of the stream channel and top of bank.

- Demolition  
- Demolition  
- Note: A site demolition permit shall not be issued until an EPSC preconstruction meeting has occurred with Engineering staff
- Demolition Triggers Permit  
- The amount of area shown in the demolition triggers the requirement for a Grading Permit. Therefore, no Demolition should be done until the Site Plan has been approved, the Site Permits have been issued, and a pre-con has been completed and Site permits signed by City of Franklin staff.

- Details  
- Details  
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Provide details for all stormwater BMPs and any pretreatment measure within this submittal. Both the City standard detail and a site specific detail shall be provided.

- Downspout Disconnection  
- Preforated Pipe  
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Perforated pipe should be specified for downspout disconnection.

- Drainage  
  - Drainage  
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Show downspout locations, drainage basins, and flow arrows on drainage sheets or stormwater sheets.

- Permanent BMP drainage areas and outfalls  
  - This comment is regarding the permanent BMPs - Applicant shall delineate drainage basins, identify outfalls, and provide acreage draining to each outfall (including offsite areas draining through the site).
- Roof Drain Locations  
  - Applicant shall show roof drain locations and whether the drains will tie into the proposed storm or sheet flow to the nearest BMP.
- Temporary EPSC BMP Drainage basins and outfalls  
  - This comment is regarding the temporary EPSC measure design - Applicant shall delineate drainage basins, identify outfalls, and provide acreage draining to each outfall (including offsite areas draining through the site).

- EPSC  

- Alteration of EPSC Measures  
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It shall be noted that at any time during construction if EPSC performance is not adequate or properly functioning that modification of EPSC controls may be required by City Staff.

- Bioretention on interim EPSC sheet  
  - Bioretention areas shall not be called out on interim EPSC plans, if they are to be used for sediment control EPSC measures shall be provided.

- Concrete washout area  
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Applicant shall show concrete wash out area on erosion control sheets and provide design specifications.

- Construction Exit  
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The minimum length of the construction exit is 100 feet.

- EPSC measures around buildings, curbs, sidewalks  
  - Applicant shall add a note to the interim EPSC plan stating, "EPSC measures shall be provided around the buildings, along sidewalks, and/or and behind curbs to prevent sediment from migrating/discharging onto paved surfaces."
- EPSC measures shall be installed outside of buffer  
  - Applicant shall remove the EPSC measures from within the buffer and install them outside of the buffer. Rip rap apron shall not encroach the buffer.
- EPSC plans  
  - Applicant shall provide plans detailing erosion prevention and sediment control measures to be utilized onsite and the location of the measures.
    - For sites < 5 acres initial and final EPSC plans shall be provided.
    - For sites ≥ 5 acres initial, intermediate, and final EPSC plans shall be provided.

- Inlet Protection  

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Applicant shall protect all adjacent inlets with drop bag type inlet protection. Drop bag type inlet protection with overflow ports shall be installed in catch basins on City of Franklin streets, the lowest catch basins on the site, and/or area drains that may cause flooding. ADS Flexstorm is one of many products that has been approved by the Tennessee Department of Transportation and would be accepted by the City of Franklin. Temporary diversions may be needed to prevent stormwater from being directed to the lowest inlets.

- Modification of EPSC  

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It shall be noted that at any time during construction if EPSC performance is not adequate or properly functioning that modification of EPSC controls may be requested by City Staff.

- Outlet Protection  

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Provide outlet protection on outlet in detention pond.

- Perimeter EPSC measures  

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Applicant shall install EPSC measures around the perimeter of the site.

- Silt Fence  

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Silt fence and tree protection fence shall be installed outside of the stream buffer.

- Silt fence along stream buffer  

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Applicant shall install wire backed silt fence along the stream buffer.

- Silt Fence Capacity  

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Silt fence capacity is incorrectly stated that sediment removal shall be at 50%. This should be changed to 33% as per the City of Franklin BMP manual.

- Stabilization  

- Applicant shall add the following note to the plans, "Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed no later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Steep slopes (35% or greater) shall be temporarily stabilized no later than 7 days after construction activity on the slope has temporarily or permanently ceased."

- Temporary Sediment Basin  

- Applicant shall ensure that a temporary sediment basin has been provided for any on-site outfall which receives drainage from 5 or more acres.

- Temporary Sediment Basin Calculations  

- Plans shall include acreage of drainage area, required and provided wet/dry storage volumes, elevations of wet/dry storage, and details of dewatering device for each basin.

- Grass Swale Easement  

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For any grass swale or stormwater channel that will contain the flow of 2 or more lots across an adjacent lot:  
The width of the drainage easement at the rear of lots must allow for the channel to have sufficient capacity for a 10 year 1 hour storm and 12 inches of freeboard. The side slopes of the channel must be no steeper than 3 to 1

- Hydrologic Determination  

- Hydrologic Determination  

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Applicant shall provide documentation from TDEC-Division of Water Resources verifying the jurisdictional status of the channel onsite as a wet weather conveyance. If a

hydrologic determination has not been performed the channel shall be treated as a jurisdictional stream and water quality buffers shall be provided.

- Site Assessment  
  - Applicant shall provide a site assessment identifying all water features (i.e.- channel, springs, seeps, wetlands, etc.) onsite. The site assessment should include any jurisdictional determinations, delineations, and/or concurrence letters from applicable regulatory agencies.

- Impervious Area  
  - Impervious Area  
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Provide impervious area for this section along with total site impervious area on the drainage or stormwater management plans sheet.

- Installation  

- Limits of Disturbance  
  - Limits of Disturbance  
    - Limits of disturbance shall be clearly delineated on grading/drainage and EPSC plan sheets.

- Long Term Maintenance Plan  
  - LTMP  
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Include a Long Term Maintenance Plan (LTMP) for stormwater features located within this site/section. **This must be submitted and approved before final site plan approval.** Applicant shall Include **ALL** of the following.

1. Completed Long Term Maintenance Form
2. Site narrative
3. Maintenance narrative
4. BMP exhibit sheet. This shall be a simplified site layout sheet with all stormwater management features clearly called out and highlighted. Do not use a plans sheet as owners typically can not legibly read or understand these. Include riparian buffer limits and label, if applicable.
5. City of Franklin BMP Inspection and Maintenance Checklist forms
6. Any applicable landscape sheets for stormwater BMP's or riparian areas

**A good example of a completed and approved LTMP, along with COF BMP inspection sheets and the LTMP form can be found at:**

<https://www.franklintn.gov/government/departments-a-j/engineering/stormwater/post-construction-maintenance>

- Permits  
  - Stormwater/Grading Permit (SWG)  
    - The Stormwater/Grading permit application has been uploaded to the document manager. Please have the application completed and submit with ORIGINAL, signed and notarized Agreement and Fees (listed on permit) to Engineering during post PC cycle.

\*This is a new issue and shall remain until permitting.
  - Stream Alteration  
    - Applicant shall obtain any applicable Aquatic Resource Alteration Permit (ARAP) from TDEC - Division of Water Resources for any physical alteration to water features onsite.

- Pervious Concrete/Pavers  
  - Benched Subgrade  
    - A separate benched grading plan is required to ensure storage capacity is consistent. the bottom slope of the permeable pavement has a maximum slope of 1% longitudinally and 0% laterally.
  - Detail  
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Ensure permeable pavement details match those called out on the City standard details. Ensure notes from City details are included as well. City details shall not be used as a construction detail as these are for reference only due to variability in design specifications. These can be found at: <https://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development/standard-construction-documents>

- Infiltration Requirement  
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Soils below pervious concrete/pavers shall show adequate infiltrative capacities as per the City of Franklin BMP manual or an underdrain shall be required.

- Installation Note  
  - Applicant shall add note stating: Pervious concrete installation is to be performed per ACI 522.1-13: Specification for Pervious Concrete Pavement. All pervious concrete must be placed and finished by a National Ready Mixed Concrete Association (NRMCA)-certified Pervious Concrete Installer or Craftsman. NRMCA-certified Technicians may place and finish the pervious concrete only under the direct supervision of an on-site NRMCA-certified Craftsman. This note is to be added to the Site Layout Sheet, Grading Sheet, and the pervious concrete detail.

- Pemeable Pavers Elevations  
  - Applicant shall provide elevations for the following for every permeable paver area onsite:

Permeable Pavers	Subgrade Elevation	Top of No. 2 Stone Depth & Elevation	Underdrain Invert Elevation	Top of No. 57 Stone Depth & Elevation	Top of No. 8 Aggregate Depth & Elevation

Area 1					
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- Pervious Concrete Elevation  
  - Applicant shall show elevations for the following for all pervious concrete onsite:

Pervious Concrete	Subgrade Elevation	Stone Size	Top of Stone Base Depth & Elevation	Underdrain Invert Elevation	Top of Pervious Concrete Depth & Elevation
Area 1					

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- Pervious Concrete Mix Design Note  
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Provide a mix design detail or note for the pervious concrete (including aggregate sizing). Include note on detail that at inspection if mix design detail has not been adequately followed then the pervious concrete shall be replaced at the contractors expense.

- Sequencing  
  - **Pervious Concrete/Paver Construction Sequencing**
    1. Construction of the permeable pavement shall only begin after the entire contributing drainage area has been stabilized.
    2. Contractor is to provide method of diverting runoff flow around the construction of the pavement area during periods of rainfall to ensure sediment does not enter the area. EPSC measures may need to be utilized during the installation. Construction materials that are contaminated by sediments must be removed and replaced with clean materials.
    3. Excavate the area. Excavators or backhoes should work from the sides to excavate the area to the design depth and dimensions. Excavating equipment should have scoops with adequate reach so they do not sit inside the footprint of the area.
    4. **CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218.**
    5. Scarify subgrade by ripping the bottom soils to a depth of 12 inches prior to stone placement
    6. Install filter fabric on the bottom and sides of the area.
    7. Install underdrain, if applicable.
    8. **IF UNDERDRAIN IS INSTALLED CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218.**
    9. Install aggregate base; install curb restraints and pavement barriers; install bedding layer.
    10. Install pavement. Paving materials shall be installed in accordance with manufacturer or industry specifications for the particular type of pavement.

11. Protect the pavement through project completion. It is preferable to have the permeable pavement installed at the end of the site construction timeline. If that is not possible, it is important to protect the permeable pavement through project completion. This may be done by:

- Route construction access through other portions of the site so that no construction traffic passes through the permeable pavement site. Install barriers or fences as needed.
- If this is not possible, protect the pavement per the construction documents. Protection techniques that may be specified include mats, plastic sheeting, barriers to limit access, or moving the stabilized construction entrance.
- Schedule street sweeping during and after construction to prevent sediment from accumulating on the pavement.

- Plats  

- Maintenance Note  

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Provide note "Maintenance of all stormwater management features shall be the responsibility of the property owner(s) or HOA".

- Riparian Buffer Labeling  

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Label all water resource by their corresponding name as shown on the most current USGS maps. Include top of bank and riparian buffer zones on all sheets. Riparian buffers shall be applied from top of bank. Top of bank is defined as the break in slope of the corresponding grade or if available, the ordinary high water mark.

- For drainage areas over 1 square mile there shall be a 60' riparian buffer zone 1.
- For drainage areas under 1 square mile shall be a 30' riparian zone 1 and 30' riparian zone 2.
- Zones shall be labeled in the following format, "Width, Riparian Buffer, Zone designation" for example "60' Riparian Buffer Zone 1"
- Where the average Slope of the land within the Streamside Buffer is between fifteen percent (15%) and twenty-five percent (25%), an additional twenty (20) feet shall be added to the zone 1 minimum buffer width.
- Where the average Slope of the land within the riparian buffer is greater than twenty-five percent (25%), an additional fifty (50) feet shall be added to the zone 1 minimum buffer width.

- Riparian Buffer No Disturb  

- Provide note:

"There shall be no mowing, clearing, grading, construction, storage, or disturbance of vegetation in riparian buffers except as permitted by the City

Engineer, or his designee."

- Riparian Buffer Rev Note  

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Revise riparian buffer note to read:

"There shall be no mowing, clearing, grading, construction, storage, or disturbance of vegetation in riparian buffers except as permitted by the City Engineer, or his designee."

If the "appropriate federal and state permits" wording is to remain "or" should be replaced with "and" as such to read:

"There shall be no mowing, clearing, grading, construction, storage, or disturbance of vegetation in riparian buffers except as permitted by the City Engineer and appropriate Federal and State permits."

- Riparian Buffer  

- Riparian Buffer and Labeling  

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Identify all water resources onsite. Label by their corresponding name as shown on the most current USGS maps. Include top of bank and riparian buffer zones on all site plan sheets. Riparian buffers shall be applied from top of bank. Top of bank is defined as the break in slope of the corresponding grade or if available, the ordinary high water mark.

- For drainage areas over 1 square mile there shall be a 60' riparian buffer zone 1.
- For drainage areas under 1 square mile shall be a 30' riparian zone 1 and 30' riparian zone 2.
- Zones shall be labeled in the following format, "Width, Riparian Buffer, Zone designation" for example "60' Riparian Buffer Zone 1"
- Where the average Slope of the land within the Streamside Buffer is between fifteen percent (15%) and twenty-five percent (25%), an additional twenty (20) feet shall be added to the zone 1 minimum buffer width.
- Where the average Slope of the land within the riparian buffer is greater than twenty-five percent (25%), an additional fifty (50) feet shall be added to the zone 1 minimum buffer width.

- Riparian Buffer Disturbance Note  

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Provide Riparian Buffer note on all EPSC/Grading/Landscape/Stormwater Management Sheets:

"There shall be no mowing, clearing, grading, construction, storage, or disturbance of vegetation in riparian buffers except as permitted by the City Engineer, or his designee."

○ Riparian Buffer Enhancement  



Per FMC 23-107, Riparian Buffers on all Water Resources shall be enhanced. Enhancement shall include removal and treatment of invasive species and the re-establishment of native species which provides a mix of Canopy Trees, understory, shrubs, and a native seed mix of forbes/grasses/sedges/rushes suitable for a moist shaded understory.

This shall be submitted as a separate schedule within the Landscaping Plan set. Please see the State of Tn Forestry handbook for riparian buffer plantings for a list of proper tree species selection, size, spacing and numbers. This can be found on our website under Urban Riparian Handbook at:

<https://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development>

○ Riparian Buffer Enhancement Efforts  

- Provide note on landscape plans:

Landscape contractor shall coordinate all riparian buffer enhancement efforts with the City's Stormwater inspector for the site. The contractor shall contact the inspector BEFORE beginning work to outline scope of work within the riparian buffers. The City inspector will document all stages of work through final stabilization. Failure to contact the City inspector may result in partial or full landscape bond withholding.

○ Riparian Buffer Misc  



Misc

○ Seed Mix Performance  

- Provide note:

Bioretention seed mix shall achieve 70% vegetated cover within a 2 year period or landscaping bonds shall be withheld.

○ Signage  



As per FMC 23-107(5)(d) Buffer boundaries shall be marked with signs that persist before, during, and after construction. Signage shall be posted at the edge of the buffer zone, each lot line, and at a maximum spacing of one hundred fifty (150) feet. This spacing can be reduced for large scale development as approved by the City's Engineering Dept. The location of the signage shall be shown on the Stormwater Mangament Plan, EPSC plans, Grading Plans, Drainage Plans and Buffer Management Plans. These sign shall be supplied by the City of Franklin's Stormwater Inspectors at initial site preconstruction meetings and be installed by the first EPSC inspection.

○ Variance Request  

- **If any encroachment of any kind is shown in the riparian buffers** then a formal variance request shall be submitted and approved before final plan approval will be granted.

Additionally, if buffer averaging is being shown then a buffer management plan shall be submitted and approved before final plan approval will be granted as well.

- Walking Trails  
  - As per FMC 23-107. Walking trails are not an allowed use in a Zone 1 stream buffer along South Prong Spencer Creek.

Walking trails are allowed in the Zone 2 buffer on the southern unnamed stream but shall be placed to meet the following: "The Water Resource Buffer width shall be increased by the width of impact associated with the path, Greenway or trail." This shall include any disturbance associated with maintenance or mowing of the sides of the path.

- Stormwater Management Plan  
  - Stormwater Management Plan  
    -

Provide a stormwater management plan narrative stating an overall explanation of how stormwater will be conveyed, detained, and treated onsite. Include report from water quality calculation tool on the City's website located at: <http://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development>

- Stormwater Pollution Prevention Plan (SWPPP)  
  - 5 -year, 24-hour storm event  
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Applicant shall specify that EPSCs proposed for the site have been designed to control storm runoff generated by a 5-year, 24-hour storm event.

- Disturbed acreage  
  - Applicant shall provide disturbed and total acreage on the NOI.

- EPSC and Stabilization locations  
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Applicant shall depicts the proposed location of all major structural/nonstructural controls and all proposed stabilization practices.

- Lat./Long.  
  - Applicant shall provide latitude/longitude on NOI.

- LOD, buffer, drainage patterns, DA  
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Applicant shall Depict disturbance limits, buffer zones, watershed drainage patterns, and drainage area serving each outfall.

- NOI & SWPPP checklist  
  - Applicant shall address the issues/deficiencies noted on the NOI/SWPPP checklist that has been uploaded.

Final site plan approval will not be granted until deficiencies have been addressed.
- Outfalls ID  
  - Applicant shall identify all outfall locations intended for coverage under the Construction General Permit (CGP)
- QLP NOI  
  - Applicant shall submit a completed QLP NOI. PDF has been uploaded. It can also be found at: <https://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development/qlp-program>
- Responsible party for EPSC  
  - Applicant shall specify which permittee is responsible for implementation of which EPSC.
- SOS#  
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Applicant shall provide the Tennessee Secretary of State (SOS) Control number for the entity listed on the NOI. Entities should be registered with the SOS and in good standing (i.e., listed with an entity status of "active") with the SOS, Division of Business Services.

Corporations (e.g., ABC Co., Inc.), limited liability companies (LLCs), and limited liability partnerships (LLPs) are required to register with the SOS. This includes nonprofit corporations such as churches, schools, and homeowners associations. Government bodies, and general partnerships are not required to register with the SOS but sometimes do.

- SWPPP signature  
  - Applicant shall provide SWPPP that has been signed by the operators.
- Topo Map  
  - Applicant shall provide appropriate portion of the USGS topo map showing the boundaries of the construction site.
- Velocity Dissipation  
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Applicant shall specify velocity dissipation devices at discharge locations and along the length of any outfall channel in the SWPPP.

- SWPPP & NOI (NPDES)  
  - Checklist  
    - Applicant shall address the issues/deficiencies noted on the NOI/SWPPP checklist that has been uploaded.

Site will not be eligible for one-stop, nor will final site plan approval be granted until deficiencies have been addressed.
  - Common Plan of Development  
    - Although this project is disturbing <1 acre it is part of a common plan of development and requires coverage under the Tennessee Construction General Permit (TNCGP). As of 8/1/17, the City of Franklin is operating as a Qualified Local Program. This means the City is processing Notices of Intent (NOI) & Stormwater Pollution Prevention Plans (SWPPP) and issuing Notices of Coverage (NOC) on behalf of TDEC. If have submitted your NOI & SWPPP prior to this date or are working under an existing permit please provide the tracking number your project has been assigned (starts with TNR#####). If you have not submitted your NOI & SWPPP to TDEC, please submit your NOI & SWPPP to the City.
  - Notice of Coverage  
    - Please upload current, active NOC & SWPPP documents that cover this site.
  - NPDES Permit Required  
    - The amount of disturbance on this project has triggered the NPDES requirements as specified below. Submit the SWPPP, NOI, NOC, and all other pertaining documents as they are approved by TDEC. **\*Please note that no Stormwater/Grading permit will be issued and this comment will remain open until an NOC is received.\***

***From the TDEC Website: Who Needs An NPDES ?Stormwater Construction Permit:** Operators of construction sites involving clearing, grading or excavation that result in an area of disturbance of one or more acres, and activities that result in the disturbance of less than one acre if it is part of a larger common plan of development or sale. - See more at: <http://www.tn.gov/environment/article/permit-water-npdes-stormwater-construction-permit>*

**If a NOC has already been issued please submit a copy of the NOC & SWPPP.**
  - QLP fee  
    - QLP fee of \$ is due at permitting. This comment shall remain open as a reminder to applicant/staff and does not hinder approval.
  - Qualified Local Program Permitting  
    - As of 8/1/17, the City of Franklin is operating as a Qualified Local Program. This means the City is processing Notices of Intent (NOI) & Stormwater Pollution Prevention Plans (SWPPP) and issuing Notices of Coverage (NOC) on behalf of TDEC. If the NOI & SWPPP have been submitted to TDEC prior to this date, please provide the tracking number your project has been assigned (starts with TNR#####). If you have not submitted your NOI & SWPPP to TDEC, please submit your NOI & SWPPP to the City.

NOI & SWPPP shall be included with **initial** submittal as the review tracks concurrently with the site plan review.

The QLP specific NOI shall be submitted. NOI has been uploaded and can be found at: <http://www.franklintn.gov/government/departments-a-j/engineering/stormwater/construction-development/qlp-program>
  - USACE jurisdictional determination  
    - The applicant shall provide a copy of the USACE jurisdictional determination.

- Water Quality  
  - BMP Construction Note  
    -

It shall be noted on all EPSC, Grading and Stormwater Management sheets that water quality BMPs shall not be installed until build out is near completion to prevent construction sediment from entering water quality BMPs. Water quality areas shall not be used as sediment basins during construction. Installer's of water quality BMP's should follow all installation guidelines set forth in the City of Franklin BMP manual located on the City's website.

- Existing BMP's  
  - The existing water quality BMP's used to treat this project shall be shall be assessed using City of Franklin Inspection forms and any maintenance needed shall be required during the construction process.

- Infiltration Test for Water Quality BMPs  
  -

A soil infiltration test report will be required for all soils where water quality BMPs are being proposed to show soils underneath BMP's have adequate infiltration rates as per the City of Franklin's BMP manual. Additionally, a infiltration test shall be performed after installation to demonstrate proper performance of the installed BMP's. This shall be signed by and submitted to the City's Engineering Dept. at the completion of the installation process by a registered professional engineer. If failure occurs, it shall be repaired or replaced at the contractor's expense. Refer to Franklin's BMP manual for number of test required and any additional information.

#### Testing Requirements

- Pool Backwash Water  
  - Applicant shall detail how and where pool will be drained and/or backwashed. Pool drain and/or backwash water shall not discharge to any green infrastructure practices, paved areas, or storm sewer system.
- Soil Type  
  -

If A/B Soils level/Code DAB is to be claimed in the Intrinsic GIP calculation in the water quality tool, then an infiltration test must be conducted to prove native a/b soils exist on site. Submit infiltration soil report with stormwater management plan.

- Water Quality  
  -

Misc

- Water Quality Signs  
  - Provide a note on the stormwater management sheet stating "Water Quality signs shall be placed within all water quality areas".

These signs shall be provided by City staff and installed by the contractor upon completion of water quality BMP's

- Water Quality Swale  
  - Soils  
    - Soils in the water quality swale shall match the bioretention soils and be noted on the plans as follows:

40% Silt  
30% Sand  
20% Clay  
10% Organics