

In accordance with Montgomery County Executive Regulation 7.02AM, all above ground stormwater management facilities shall be landscaped in a manner that will improve their aesthetics, enhance water quality and improve wildlife habitat. The intent of this requirement is to ensure that these structures are developed in a manner that will yield the greatest environmental and amenity benefit to the community.

**Design Objectives**  
 At a minimum, the entire stormwater management easement shall be landscaped. At least 40% of the plantable area of the easement shall be planted to vegetation other than turf grass. The following objectives should be considered when choosing the types of plants and their placement, in order to:

1. Assure aesthetic compatibility with the community
2. Enhance water quality
3. Provide wildlife habitat

Plantable area is defined as all areas that can be landscaped with vegetation other than grass. All other areas will be clearly delineated on the landscape plan, and must be planted in turf grass. These other areas include: MD 378 embankments and stormwater management easement access areas. Public utility rights-of-way are not considered plantable unless permission has been granted by the responsible utility.

A detailed landscape plan of the stormwater management parcel must be included as part of the stormwater management plan. The plan must be prepared by a Landscape Architect registered in the State of Maryland.

**Design Criteria**  
 Landscaping shall enhance the aesthetic appeal of the facility. The facility should blend with the overall landscaping of the site.  
 The facilities must be designed with irregular, naturalistic curved outlines. Rectangular is not natural.

On MD-378 facilities:  
 1. No trees or shrubs will be allowed anywhere on the embankment, within 15 ft. of either toe of the embankment, or within 25 ft. of the top of the embankment.  
 2. Plantings are encouraged around private storm drain outlets.  
 3. Only groundcovers which meet MD 342 Critical Area Stabilization shall be planted on the embankment. Tall groundcovers make maintenance inspections difficult.  
 4. Planting trees above the City water surface elevation is encouraged. Limited tree planting may be allowed above the water surface elevation if the trees are planted within the stormwater management period if the pond is not properly maintained, and the trees may not survive.  
 5. Landscaping shall not impede the flow of water in the facility or impede the function of the facility.  
 6. See MD 378 for further details pertaining to pond design.

On Non MD-378 facilities:  
 1. Mulched planting islands are permitted on the embankment. These islands (less than 5 ft. surface height) and will cover no more than 30% of the embankment surface area. No mowing type vegetation will be allowed in these islands.  
 2. Plantings are allowed within 15 ft. of the toe of the dam.  
 3. No plantings shall be allowed within the stormwater management period if the pond is not properly maintained, and the trees may not survive.  
 4. Except for the planting islands, the remainder of the embankment shall meet MD 342 Critical Area Stabilization.  
 5. No vegetation will be planted in the sand filter.  
 6. No woody vegetation will be planted in the grass filter above the sand filter.  
 7. Limited tree planting may be allowed below the 2 year water surface elevation or the water quality elevation, with the understanding that this area may flood for long periods if the pond is not properly maintained, and the trees may not survive.  
 8. Landscaping shall not impede the flow of water in the facility or impede the function of the facility.

Trees are not permitted on slopes greater than 3:1 within the stormwater easement.  
 Slopes steeper than 3:1 anywhere in the easement shall be stabilized according to MD 342 Critical Area Stabilization. No slopes greater than 2:1 are allowed.  
 Invasive species are not permitted. See Appendix A.  
 No landscaping shall obstruct any maintenance access to the facility.  
 Choose plant materials that can also supply food and cover for native birds, insects, and mammals wherever possible.  
 Trees and shrubs shall be selected for the anticipated soil wetness and ponding frequency.  
 Trees and shrubs should be planted around the perimeter of wet ponds and wetlands and all follow-up planting to be completed within 30 days of construction. All plant materials can be used in addition to creating natural impacts.  
 Wildflower meadows are permitted. When used on embankments, the grass component of the wildflower mix shall be doubled and the slopes shall be no steeper than 3:1. Annual seeding shall be done in the fall for best results. For greatest wildlife benefit, once yearly mowing should occur in late winter.  
 Stormwater facilities must have irregular outlines to blend naturally into the environment and provide more aesthetic appeal. Rectangular is not natural.  
 Vegetation should be planted thickly enough to hold the soil, shade out weeds, and be aesthetically pleasing. Native plants are encouraged, but not required.  
 Trees shall be a minimum of 2" caliper, shrubs shall be minimum 3 gal. size and herbaceous material shall be a minimum of 1 gal. size.  
 The soil within the easement shall be loosened to a depth of three to five inches. Topsoil shall be spread to a depth of four to eight inches. The addition of topsoil will allow plants to become established faster, and will help insure quicker and more complete stabilization.  
 The Forest Conservation easement and the Stormwater management easement may not overlap. Forest Conservation easements are allowed within the Stormwater management parcel, exclusive of the easement.  
 The landscape plan shall be included as part of the facility plan, and must be certified by a registered landscape architect.  
 Substitutions and modifications from the approved landscape plan must be approved by MCDPS prior to implementation. This includes plant substitutions, changes in the number of plants, and revised planting locations.

**PROFESSIONAL CERTIFICATION**  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 8291. Expiration Date: 11/28/11.

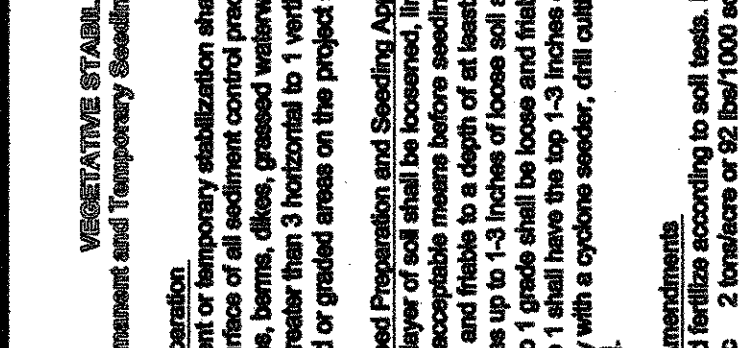
Chander S. Dhawala  
 Chander S. Dhawala, P.E. Maryland Registration No. 8291  
 3/11/11  
 Date

**NOTE**  
 MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL. IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED, THIS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT!

**Appendix A**  
 Invasive Species

Scientific Name	Common Name
<i>Acer platanoides</i>	Norway Maple
<i>Ailanthus altissima</i>	Tree of Heaven
<i>Amelanchier canadensis</i>	Shadbush
<i>Artemisia biennis</i>	Common Ragwort
<i>Berberis thunbergii</i>	Japanese Barberry
<i>Betula pumila</i>	Common Birch
<i>Cornus varia</i>	Cornus
<i>Crataegus mollis</i>	Common Hawthorn
<i>Empetrum nigrum</i>	Winged Eustoma
<i>Euonymus alatus</i>	Winged Euonymus
<i>Hamamelis virginica</i>	Winged Fraxinella
<i>Hesperis matronalis</i>	Night-flowering Cerise
<i>Lonicera sp.</i>	Bush Honey-suckle
<i>Lythrum sp.</i>	Lythrum
<i>Malva sylvestris</i>	Musk Rose
<i>Phlox paniculata</i>	Phlox
<i>Rosa rugosa</i>	Rugosa Rose
<i>Spiraea japonica</i>	Japanese Spiraea
<i>Taxus canadensis</i>	White Pine
<i>Thuja occidentalis</i>	Green Pine
<i>Viburnum sp.</i>	Chinese Viburnum
<i>Wisteria sinensis</i>	Chinese Wisteria

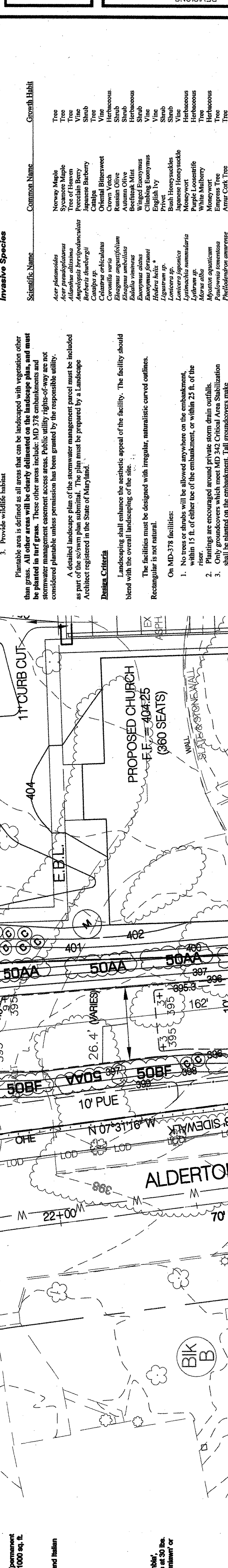
**MCDPS APPROVED FOR:**  
 Stormwater Management  
 S.E./S.I./M.F./P.R.G.  
 Date: 4-5-2011  
 Approved: [Signature]  
 Date: 2-20-12  
 Settlement Control Technical Requirements:  
 Date: 4-5-2011  
 Approved: [Signature]  
 Date: 4-5-2011  
 Administrative Requirements:  
 Date: 4-5-2011  
 Reviewed: [Signature]  
 Date: 2-23-12  
 SEGMENT CONTROL PERMIT #



STORMWATER MANAGEMENT FACILITY  
 LANDSCAPING GUIDELINES

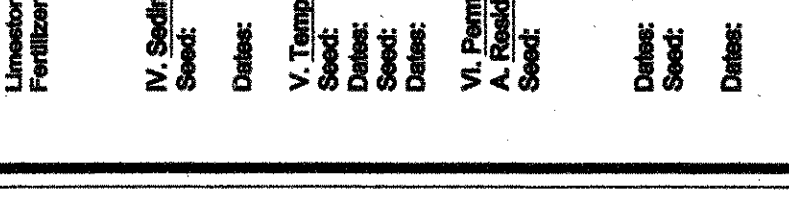
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SCALE: 1" = 20'



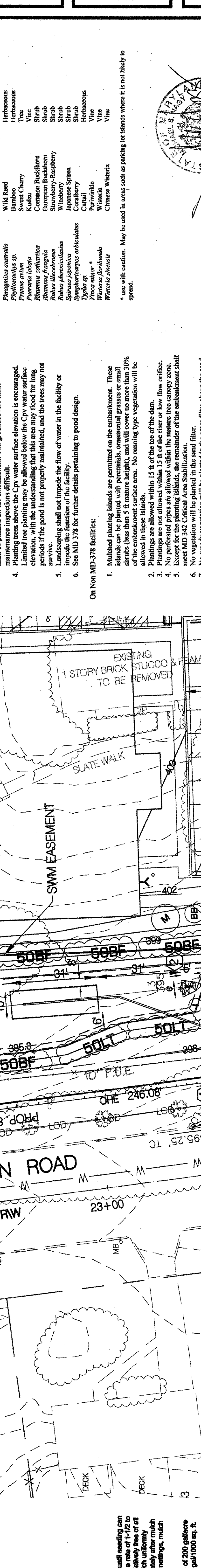
**PLANT LIST**

SYMBOL	QTY.	BOTANICAL / COMMON NAME	SIZE	REMARKS
(N)	5	Magnolia virginiana / Sweetbay	5'-6" high	B & B
(B)	08	Cephaelis thalictroides / Butterbush	12-18" High	Container
(G)	10	Cleome spinifolia / Sweet Peppertouch	12-18" High	Container
(U)	14	Ilex verticillata / Winterberry	12-18" High	Container
(BF)	100	Iris versicolor / Blue Flag	Bare root	120 c.
(AA)	150	Peltandra virginica / Arrow arum	Bare root	180 c.
(LT)	100	Saururus cernuus / Lizard's Tail	Bare root	180 c.



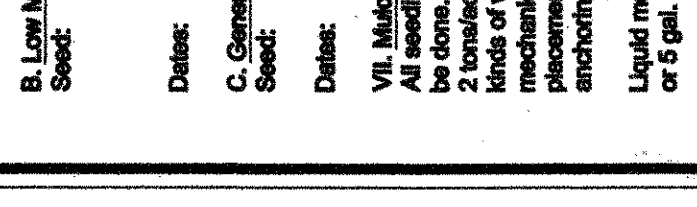
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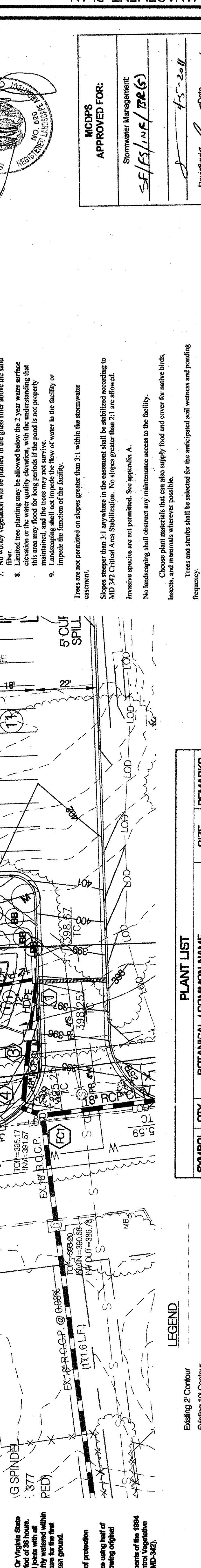
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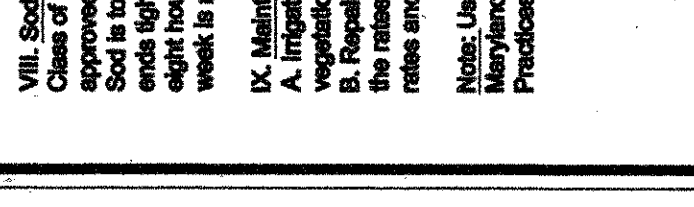
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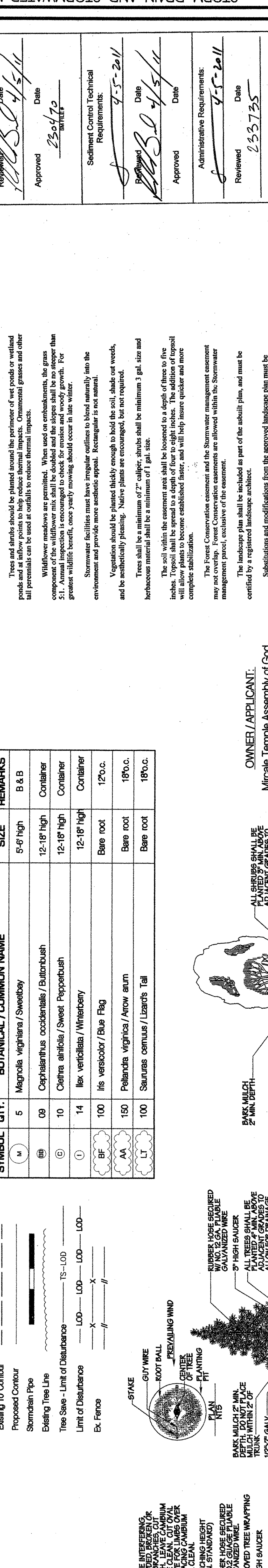
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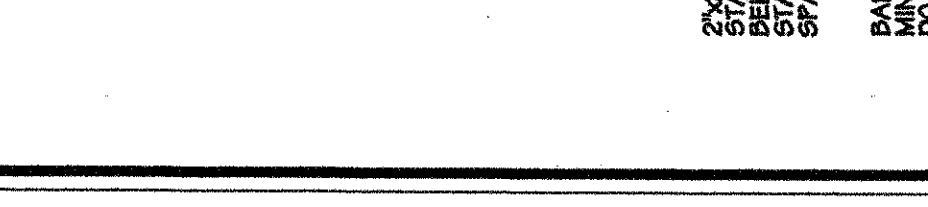
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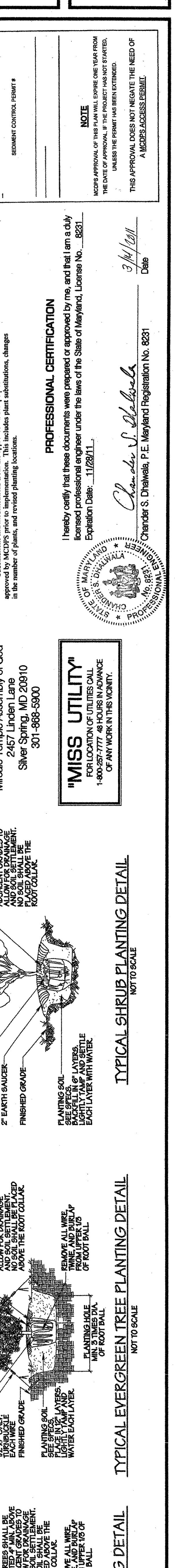
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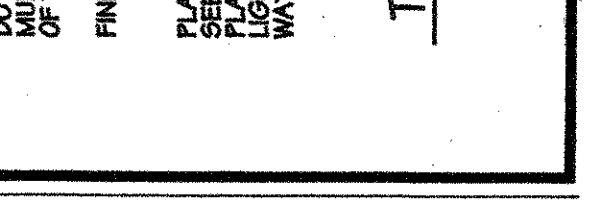
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**OWNER/APPLICANT:**  
 Miracle Temple Assembly of God  
 2457 Linden Lane  
 Silver Spring, MD 20910  
 301-868-5800

**"MISS UTILITY"**  
 FOR LOCATION OF UTILITIES CALL  
 1-800-367-7777 48 HOURS IN ADVANCE  
 OF ANY WORK IN THIS VICINITY.

**PROFESSIONAL CERTIFICATION**  
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