# SWM CONCEPT PLAN Walmart > < SUPERCENTER #2412-03 3200 NORTH RIDGE RD. **ELLICOTT CITY** HOWARD COUNTY, MARYLAND

# UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

	UTILITY/ GOVERNING AGENCIES CONTACTS	CONTRACTOR RESPONSIBILITY—	OTHERS RESPONSIBILITY—
<i>1</i> 5	BALTIMORE GAS & ELECTRIC (BGE) 7225 WINDSOR BLVD. BALTIMORE, MD 21244 PHONE: 410-685-0123	-COORDINATE CONSTRUCTION ACTIVITIES WITH BGE TO ENSURE INSTALLATION OF GAS LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT	-SERVICE FROM THE POINT OF CONNECTION AT THE EXISTING LINE UP TO AND INCLUDING SETTING OF METER WILL BE BY BALTIMORE GAS & ELECTRIC COMPANY (BGE) -ANY RELOCATION OF EXISTING WILL BE DONE BY BALTIMORE GAS & ELECTRIC COMPANY (BGE)
T EDITORE	LEDITON.		
ELEPHONE	VERIZON P.O. BOX 9000 ANNAPOLIS, MD 21401 CONTACT: VERIZON ANNAPOLIS SRC PHONE: 800-837-4966	-coordinate construction activities with verizon to ensure installation of underground lines are completed prior to asphalt or curb placement -provide and install 2-4" schedule 40 pvc conduits with pull ropes, including all trenching and backfilling, from the riser pole up to the building -provide and install pull boxes as per telephone company requirements	-verizon will provide and install all telephone cables from the point of connection up to the building -any relocation of existing will be done by verizon
ECTRIC	BALTIMORE GAS & ELECTRIC (BGE) 7225 WINDSOR BLVD. BALTIMORE, MD 21244 PHONE: 410-685-0123	-coordinate construction activities with BGE to ensure installation of underground lines are completed prior to asphalt or curb placement	-ANY RELOCATION OF EXISTING LINES OR POLES WILL BE DONE BY BGE.
witary sewer	HOWARD COUNTY BUREAU OF UTILITIES 8250 OLD MONTGOMERY ROAD COLOUMBIA, MD 21045 PHONE: 410-313-4900	-provide and install sanitary sewer lines and associated appuritenances per the plans and specification -all public and private sanitary sewer lines shall be pvc and rated SDR 26 -coordinate required inspection services with engineer of record and howard county bureau of utilities, see utility plan for requirements.	
ATER	HOWARD COUNTY BUREAU OF UTILITIES 8250 OLD MONTGOMERY ROAD COLOUMBIA, MD 21045 PHONE: 410-313-4900	-Provide and install all water mains and associated appurtenances per the plans and specification  -all public and private water mains shall be dip.  -all portions of the fire protection water system shall be installed by a licensed fire sprinkler contractor  -all portions of other non fire protection related lines may be installed by the plumbing contractor  -coordinate required inspection services with engineer of record and howard county bureau of utilities. See utility plan for requirements.  -domestic tap from the point of connection at the existing line up to and including setting of meter at the property line will be by the contractor.  -any relocation of existing will be done by contractor	-Domestic tap from the point of connection at the existing line up to and including setting of water meter at the property line will be by the howard county bureau of utilities.
STORM_SEWER	HOWARD COUNTY DEPARTMENT OF PUPBLIC WORKS 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-313-3440	-PROVIDE AND INSTALL ALL STORM SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATION -REFER TO GRADING PLAN FOR INFORMATION ON ALLOWABLE STORM SEWER MATERIALS	

# Bowman

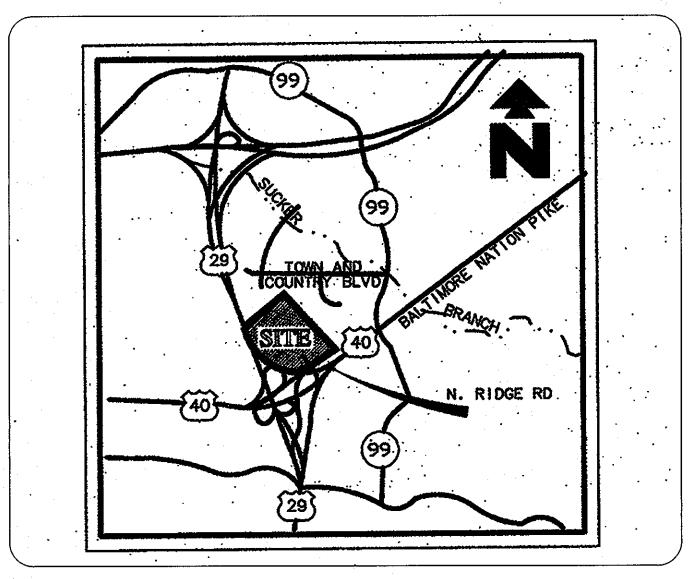
Bowman Consulting Group, Ltd. 9813 Godwin Drive Manassas, VA 20110

Telephone: (703) 530-8093 Fax: (703) 481-9720 www.bowmanconsulting.com © Bowman Consulting Group, Ltd.

# SHEET INDEX

- ORMWATER MANAGEMENT CONCEPT PLAN (1 OF 2)

- **EROSION AND SEDIMENT CONTROL DETAILS**



# VICINITY MAP

SCALE: I'' = 2000' ADC MAP 48I5 GRID J-5 HOWARD COUNTY GEODETIC CONTROL MONUMENT NOS 24C2 AND 18G1

# ADDITIONAL PROJECT CONTACTS

LOCAL ZONING OFFICE
HOWARD COUNTY ZONING DEPARTMENT 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-313-4415 FAX: 410-313-3467 ZONING ADMINISTRATOR: CURTIS BRAITHWAITE

HOWARD COUNTY FIRE DEPARTMENT HOWARD COUNTY DEPARTMENT OF FIRE AND RESCUE 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-313-6000

OWNER/DEVELOPER: WAL-MART REAL ESTATE BUSINESS TRUST 2001 SOUTHEAST 10TH STREET, SWDC BENTONVILLE, AR 72716-0550 CONTACT: MIKE THOMAS PHONE: (479) 273-4000

LOCAL PLANNING OFFICE HOWARD COUNTY PLANNING OFFICE 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-313-2406 FAX: 410-313-3467 CONTACT: CHAD EDMONDSON

DEPARTMENT OF PUBLIC WORKS LAND DEVELOPMENT DIVISION 3430 COURT HOUSE DRIVE ELLICOTT CITY, MD 21043 PHONE: 410-313-3440 DIVISION CHIEF: CINDY HAMILTON

BOWMAN CONSULTING 9813 GODWIN DRIVE MANASSAS, VA 20110 PHONE: (703) 530-8093 FAX: (703) 481-9720

ELLICOTT CITY, MD 21043 PHONE: 410-313-2455 ARCHITECT
LAW KINGDON ARCHITECTS

INSPECTIONS AND PERMITS

3430 COURT HOUSE DRIVE

HOWARD COUNTY DEPARTMENT OF

INSPECTIONS, LICENSES AND PERMITS

345 RIVERVIEW, SUITE 200 WICHITA, KANSAS 67203 PHONE: (316) 268-0230 CONTACT: JAMEY FLOWERS

GEOTECH ECS MID-ATLANTIC, LLC 9409 INNOVATION DRIVE MANASSAS, VA 20110 PHONE: (703) 396-6259

1			ADDRES	S CHART			
LOT	NUMBER	٠	STREET ADDRESS				
				3200 NOR	TH RIDGE ROAD		
					1		
			PERMIT INFOR	RMATION CHART			
SUBDIVISION NAME			SECTION/AREA		PARCEL #		
ELLICOTT C	ity Walmar	T	N.A.		PARCEL B/ p/o TM 1085		
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELECTION DISTRICT	CENSUS TRACT		
12107 & 13226	6	B-2	24	2ND	6026		
WATER CODE FO3			SEWER CODE 1452800				
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CHIEF, DIVISION	Devol	VELODIVENE			9/27/10		

# SITE ANALYSIS

USE OF STRUCTURE: EXISTING FLOOR AREA: **EXISTING GREEN HOUSE AREA:** PROPOSED FLOOR AREA: PROPOSED GREEN HOUSE AREA:

5,917 S.F. TOTAL # OF UNITS: MAXIMUM # OF EMPLOYEES:

EXISTING # OF PARKING SPACES: PROPOSED # OF PARKING SPACES: PROPOSED BUILDING COVERAGE OF SITE:

EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA: PROPOSED GREEN OPEN AREA: LIMIT OF DISTURBANCE AREA: WETLANDS AND THEIR BUFFERS: FLOODPLAINS AND THEIR BUFFERS: STEEP SLOPES 15% AND MORE: REFORESTATION CONSERVATION AREA:

I BUILDING 200-250 ASSOCIATES (70% FULL TIME) REQUIRED PARKING RATIO: RETAIL 5 S.P / 1000 S.F. - 758 SPACES GREEN HOUSE I S.P. / 1000 S.F. - 6 SPACES 626 SP. (FIELD INSPECTED) 613 SP.

> 9.84 AC II AC.

7.36 AC.

4.73 AC.

0.25 AC.

1.98 AC.

1.50 AC.

0 AC.

799,847 S.F. OR 18.36 AC

COMMERCIAL/RETAIL

124,622 S.F.

13,148 S.F. 151,567 S.F.

# SUBDIVISION 'ELLICOTT CITY WALMART'

ELECTION DISTRICT NO. 2 TAX MAP 17 & 24 REZONING CASE NUMBER ZB-941 SKETCH PLAN S-95-01 PRELIMINARY PLAN P-95-21 SITE PLAN SDP-96-II MASS GRADING PLAN SDP-96-001 FINAL ROAD CONSTRUCTION PLAN FOR NORTH RIDGE RD. F-96-01 FINAL RECORD PLATS WATER NO. F03

HOWARD COUNTY, MARYLAND P/O TM PARCEL 1085 DATED: OCTOBER 18, 1993 APPROVED: 12-2-1994 APPROVED: 06-06-1995 APPROVED: 06-21-1996 APPROVED: 04-03-1996

APPROVED: II-08-I995 F-96-009, F-96-091 & F-98-157 SEWER NOS. 1452800

# **DESIGN NARRATIVE**

SEE SHEET 3 FOR DESIGN NARRATIVE

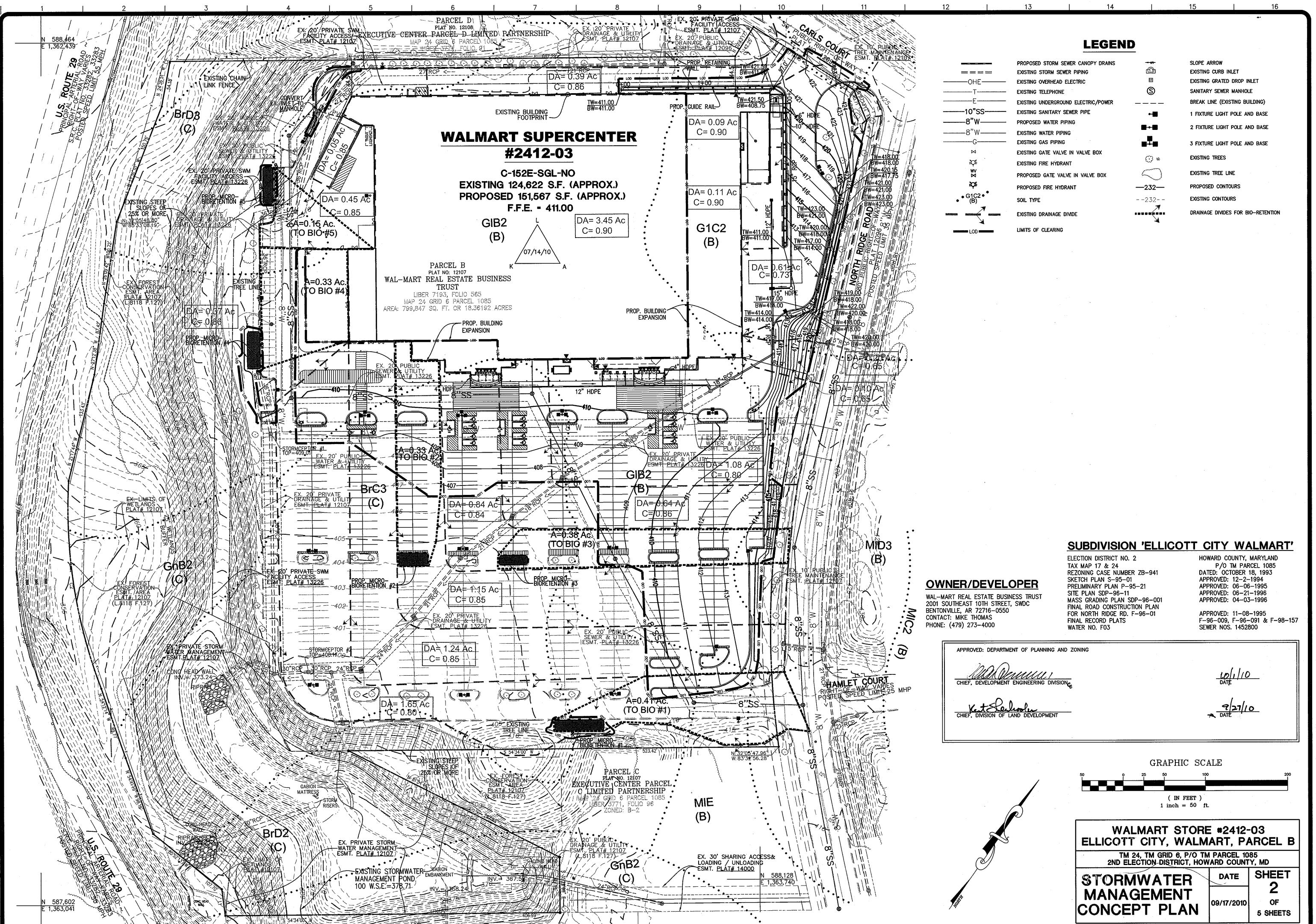


WALMART STORE #2412-03 ELLICOTT CITY, WALMART, PARCEL B

TM 24, TM GRID 6, P/O TM PARCEL 1085 2ND ELECTION DISTRICT, HOWARD COUNTY, MD

STORMWATER **MANAGEMENT** CONCEPT PLAN

SHEET 09/17/2010 5 SHEETS



REVISIONS BY

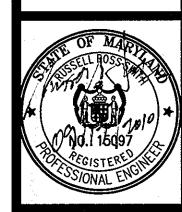
09/17/10-CONCEPT GD/KD

COUNTY SUBMISSION

N G 3) 530-8093 8475 onsulting.com

D N S U L T I N G

n Consulting Group, Ltd. Telephone: (703) 530-8093
odwin Drive Fax: (703) 530-8475
www.bowmanconsulting.com



MARYLAND SS TRUST

ENTER # 2412-0 T CITY, HOWARI

Imart > 1

DESIGN DRAWN

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DATE
07/15/2010
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1'-50'
JOB No.

SHEET

OF 5 SHEETS

\* \* 2412-03
Y, HOWARD COUNTY, MARYLAND
EAL ESTATE BUSINESS TRUST
STREET
AR 72716

ELLICOTT CITY
WAL-MART RE/
2001 SE 10TH 8
BENTONVILLE,

Valmart > 1

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OF 5 SHEETS

**BIORETENTION FILTER CALCULATIONS BIORETENTION FILTER CALCULATIONS BIORETENTION FILTER CALCULATIONS BIORETENTION FILTER CALCULATIONS BIORETENTION FILTER CALCULATIONS** (BIORETENTION FILTER #5) (BIORETENTION FILTER #4) (BIORETENTION FILTER #1) (BIORETENTION FILTER #2) (BIORETENTION FILTER #3) DRAINAGE AREA (MAXIMUM 20,000 SF) A<sub>DRN</sub> <u>6534</u> ft<sup>2</sup> A<sub>DRN</sub> 14375 ft<sup>2</sup> A<sub>DRN</sub> 16553 ft<sup>2</sup> A<sub>DRN</sub> 14375 ft<sup>2</sup> SIZE RATIO (LENGTH / WIDTH) R<sub>LW</sub> 3.00 :1  $R_{LW} = 3.75 : 1$  $R_{LW} = 2.33 :1$ R<sub>L/W</sub> 3.18 :1 <u>5.45</u> :1 SIDE SLOPE OF PONDING AREA (MAXIMUM 3:1) S<sub>SIDE</sub> 3.0 :1 S<sub>SIDE</sub> 3.0 :1 <u>3.0</u> :1 S<sub>SIDE</sub> <u>3.0</u> :1 <u>3.0</u> :1 SSIDE DEPTH OF SOIL (MAXIMUM 4') D<sub>SOIL</sub> <u>3.0</u> ft D<sub>SOIL</sub> <u>3.0</u> ft D<sub>SOIL</sub> <u>2.5</u> ft 2.5 ft D<sub>SOIL</sub> <u>3.0</u> ft LENGTH OF BASIN (MINIMUM 15') ENGTH OF BASIN (MINIMUM 15') L<sub>BASIN</sub> 45.0 ft L<sub>BASIN</sub> 45.0 ft L<sub>BASIN</sub> 35.0 ft 35.0 ft WIDTH OF BASIN (MINIMUM 10') W<sub>BASIN</sub> <u>12.0</u> ft W<sub>BASIN</sub> <u>14.0</u> ft AREA AT TOP OF PONDING (MINIMUM 150ft<sup>2</sup>) AREA AT TOP OF PONDING (MINIMUM 150ft²) A<sub>TOP</sub> 540.0 ft<sup>2</sup> A<sub>TOP</sub> 675.0 ft<sup>2</sup> 750.0 <del>Ո</del>²  $A_{TOP}$  490.0 ft<sup>2</sup> A<sub>TOP</sub> 385.0 ft<sup>2</sup> VOLUME OF PONDING (MAXIMUM 1' DEEP) V<sub>POND</sub> 387.0 €<sup>3</sup> V<sub>POND</sub> 513.0 ft<sup>3</sup> V<sub>POND</sub> 361.0 ft<sup>3</sup> V<sub>POND</sub> 265.0 ft<sup>3</sup> 550.5 ft<sup>3</sup>  $V_{POND}$ TORAGE VOLUME OF SOIL (SOIL POROSITY 0.30) STORAGE VOLUME OF SOIL (SOIL POROSITY 0.30) V<sub>SOIL</sub> 531.9 ft<sup>3</sup> V<sub>SOIL</sub> 324.8 ft<sup>3</sup> V<sub>SOIL</sub> 656.1 ft<sup>3</sup> 734.9 ft<sup>3</sup>  $V_{SOIL}$  406.2 ft<sup>3</sup> TOTAL FACILITY VOLUME V<sub>BASIN</sub> 589.8 ft<sup>3</sup> V<sub>BASIN</sub> 1169.1 ft<sup>3</sup> V<sub>BASIN</sub> 918.9 ft<sup>3</sup> V<sub>BASIN</sub> 767.2 ft<sup>3</sup> V<sub>BASIN</sub> 1285.4 ft<sup>3</sup>

TOTAL ESDV PROVIDED = 4730.3 CF

### RCN COMPUTATIONS SITE CONDITIONS DEVELOPABLE AREA (Ac.) = BEFORE CREDIT AREA HYDROLOGIC SOIL TYPES RCN = (4.17 ac)\*(98)+(0.64 ac)\*(61)38 0.00 0% 55 3.48 72% 70 1.33 28% RCN<sub>BEFORE</sub> CREDIT = С 77 0 \* RCN for "Woods in good condition" per Table 2.2 of TR-55 WITH RE-DEVELOPMENT RCN = (2.67 ac)\*(98)+(0.64 ac)\*(61)3.31 REDEVELOPMENT EXISTING IMPERVIOUS AREA (Ac.) RCN<sub>W/REDEVELOPMENT</sub> = PROPOSED IMPERVIOUS AREA (Ac.) = 4.17 INCREASE IN IMPERVIOUSNESS (Ac.) = 1.16 50% EXISTING IMPERVIOUS AREA (Ac.) = 1.51 "WOODS IN GOOD CONDITION" (Targeted RCN Value) RCN = (1.51 ac)\*(98)+(1.98 ac)\*(55)+(1.33)\*(70)SITE IMPERVIOUSNESS (%) Prop. Impervious over Ex. Green (Ac.) = 1.16 RCN<sub>WOODS GOOD</sub> = 73 Because this is a redevelopment, 50% of the existing RCN WITH ESD PRACTICES APPLIED impervious area within LOD only requires WQv (1") treatment and proposed impervious area over existing green area RCN = (1.07 ac)\*(98)+(0.92 ac)\*(55)+(0.68)\*(70)+(0.64)\*(61)requires full WQv (2.6") to be treated. A weighted P<sub>e</sub> will be used for ESDv facility sizing. Weighted $P_e = (1.16)(2.6")+(1.51)(1")$ $RCN_{W/ESD APPLIED} = 73$ (4.81 - 1.51)RCNw/esd =< RCNwoods good RCN REQUIREMENT SATISFIED Weighted $P_e = 1.37$ **ESDV SIZING COMPUTATIONS** ESDv = (1.37) \* (0.59) \* (1.6 Ac.) AREA TREATED BY ESD - B SOILS (Ac.) = 0.92 Rv = 0.05 + 0.009\*(60)AREA TREATED BY ESD - C SOILS (Ac.) = 0.68PERVIOUS AREA (Ac.) $ESDv = 0.1075 \text{ Ac-ft} \qquad ESDv = 4681 \text{ cf}$

### ESDv REQUIRED - 4,681 CF. ESDv PROVIDED - 4,730 CF.

# STORMWATER MANAGEMENT DESIGN NARRATIVE

The project consists of approximately 26,800 square feet expansion to the existing Walmart Store #2412 and construction of additional parking spaces at 3200 North Ridge Road, Ellicott City, Howard County, Maryland. The subject site is approximately 18.36 acres, and is bounded by Columbia Pike (Rt. 29) to the West, undeveloped property to the North, North Ridge Road to the East, and an existing office building with surface parking to the South.

The subject site currently has an existing retail building and associated parking lot. There are some areas with steep slopes of 25% or more located along the western boundary of the site however the rest of site has gradual slopes since the majority of site is already developed. On-site existing vegetation consisting of trees and shrubs are located at the western and southern portion of the site. There is also 1.5 acres forest conservation area dedicated at the western part of the site. The subject site has B and C hydrologic soil types.

On-site existing impervious cover includes existing one-story retail building and parking lot. The existing building footprint is 124,622 square foot and overall existing impervious cover for the subject site equals to 9.84 acres. This project proposes an expansion of 26,800 square foot to the existing building, an additional loading dock and parking spaces, which accumulates 1.16 acres increase in impervious area and brings the total proposed site imperviousness to 11 acres.

Non-structural micro-bioretention facilities have been selected as ESD to the MEP in order to meet the stormwater management requirements. Micro-bioretention facilities are strategically located on-site around the existing parking lot and in the parking lot islands in order to receive a sheet flow from gradual slopes (< 5%) and from drainage areas not more than 20,000 square feet. Depressed curb cuts have been placed along the curbs where the micro-bioretention facilities are located to provide sufficient inflow of storm water into the filtering bed and outflow cleanouts are provided within the micro-bioretention facilities in order to convey the excessive stormwater above ESDv level into the existing storm drain system. Underdrain systems are also placed for each bio-retentions facility to discharge treated stormwater safely downstream. Existing storm drain system on site adequately conveys the treated stormwater from micro-bioretention facilities and the intercepted stormwater by storm structures into the existing pond located at the southern portion of the property. As shown on the concept plan, existing drainage divides and on-site natural flow patterns have been honored by the proposed development. Required ESD volume for the micro-bioretention facilities have been determined and associated sizing computations have been shown on this sheet.

It's our opinion that stormwater management requirements under governing redevelopment regulations have been met and the required water quality treatment for the subject site has been achieved by proposed on-site micro-bioretention facilities.

# SUBDIVISION 'ELLICOTT CITY WALMART'

# OWNER/DEVELOPER

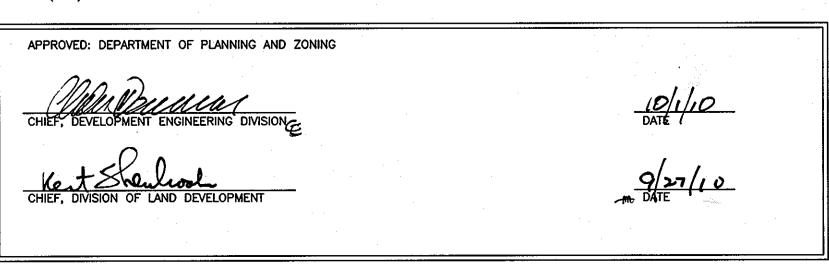
WAL-MART REAL ESTATE BUSINESS TRUST 2001 SOUTHEAST 10TH STREET, SWDC BENTONVILLE, AR 72716-0550 CONTACT: MIKE THOMAS PHONE: (479) 273-4000

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ELECTION DISTRICT NO. 2
TAX MAP 17 & 24
REZONING CASE NUMBER ZB-941
SKETCH PLAN S-95-01
PRELIMINARY PLAN P-95-21
SITE PLAN SDP-96-11
MASS GRADING PLAN SDP-96-001
FINAL ROAD CONSTRUCTION PLAN
FOR NORTH RIDGE RD. F-96-01
FINAL RECORD PLATS
WATER NO. F03

HOWARD COUNTY, MARYLAND
P/O TM PARCEL 1085
DATED: OCTOBER 18, 1993
APPROVED: 12-2-1994
APPROVED: 06-06-1995
APPROVED: 06-21-1996
APPROVED: 04-03-1996

APPROVED: 11-08-1995 F-96-009, F-96-091 & F-98-157 SEWER NOS. 1452800



WALMART STORE #2412-03
ELLICOTT CITY, WALMART, PARCEL B

TM 24, TM GRID 6, P/O TM PARCEL 1085
2ND ELECTION DISTRICT, HOWARD COUNTY, MD

STORMWATER DATE

STORMWATER

MANAGEMENT

CONCEPT PLAN

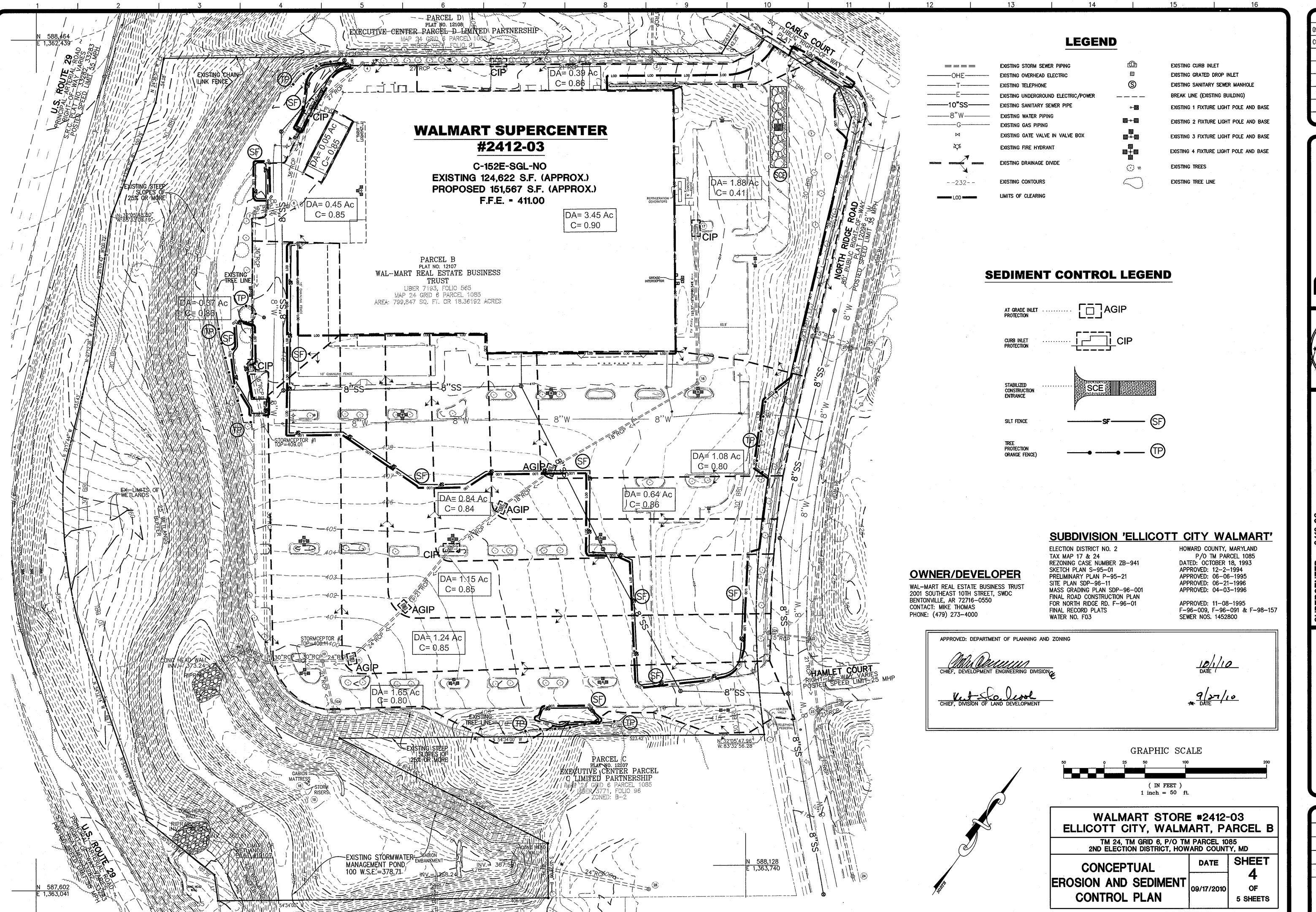
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OF

5 SHEETS



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09/17/10-CONCEPT GD/KD

COUNTY SUBMISSION

d. Telephone: (703) 530-8093
Fax: (703) 530-8475
www.bowmanconsulting.com
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CONSULTING Group 9813 Godwin Drive Manassas, Virginia 20110



OTT CITY, HOWARD COUNTY, MARYL, MART REAL ESTATE BUSINESS TRUST SE 10TH STREET

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DESIGN DRAWN

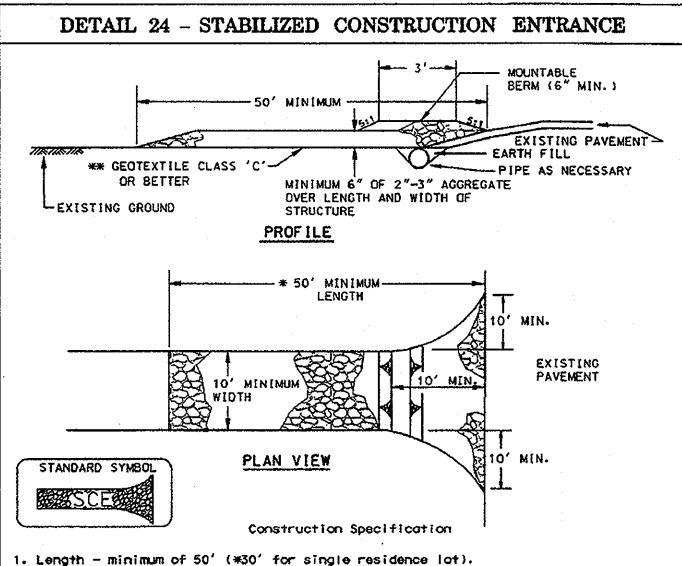
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4

OF 5 SHEETS

- 1. All finished lumber shall be 2" x 4" minimum.
- 2. A mastic seal shall be provided, as shown, to prevent sediment laden water escaping untreated beneath silt fence installation.
- 3. Silt fence fabric shall be taut and securely stapled to face of upright supports.
- 4. Nails used to secure boards to pavement shall be 20d x 4" minimum length.
- 5. Application design and materials criteria shall be as stated in the Maryland Standards and Specifications for Soil Erosion and Sediment Control.

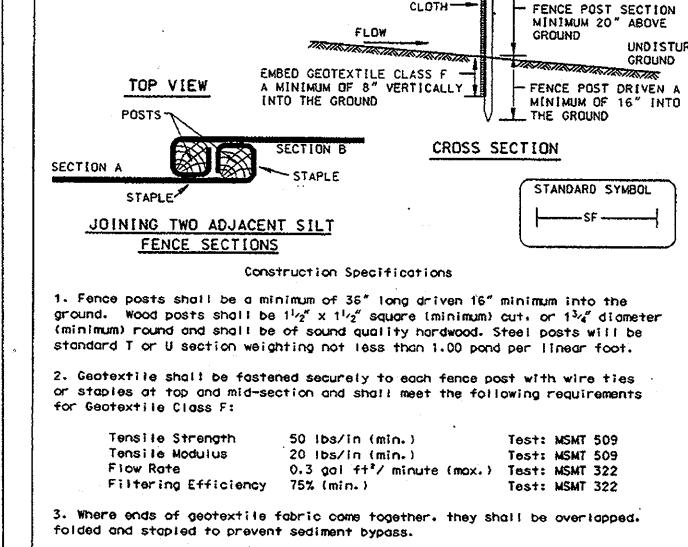


- 2. Width 10' minimum, should be flared at the existing road to provide a turning
- 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile.
- 4. Stone crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the
- 5. Surface Water all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slapes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- 6. Location A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

P - 17 - 3

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION



4. Silt Fence shall be inspected after each rainfall event and maintained when

bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 22 - SILT FENCE

36" MINIMUM FENCE
POST LENGTH

FILTER

10' MAXIMUM CENTER TO

-- CENTER\_\_\_

PERSPECTIVE VIEW

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

--- 36" MINIMUM LENGTH FENCE POST.

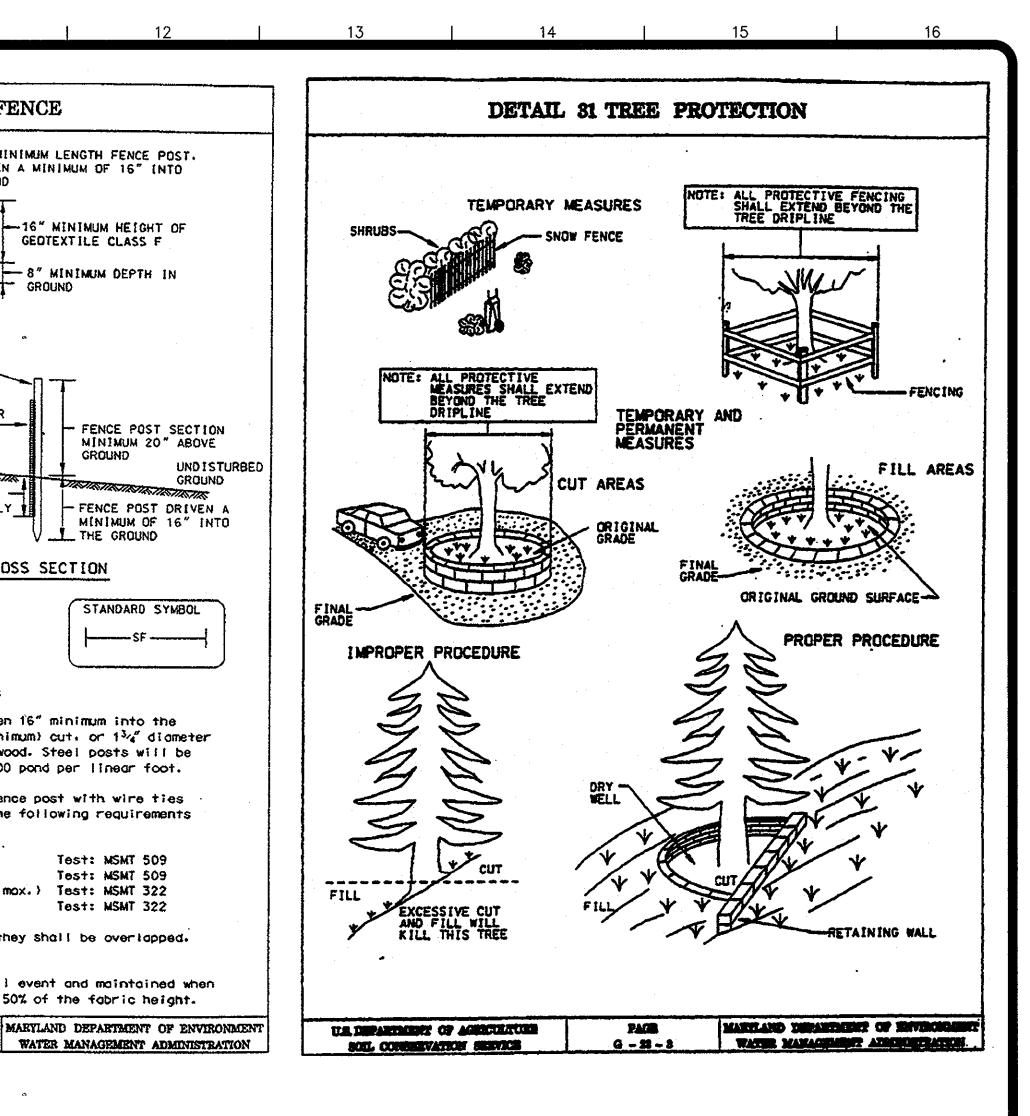
DRIVEN A MINIMUM OF 16" INTO

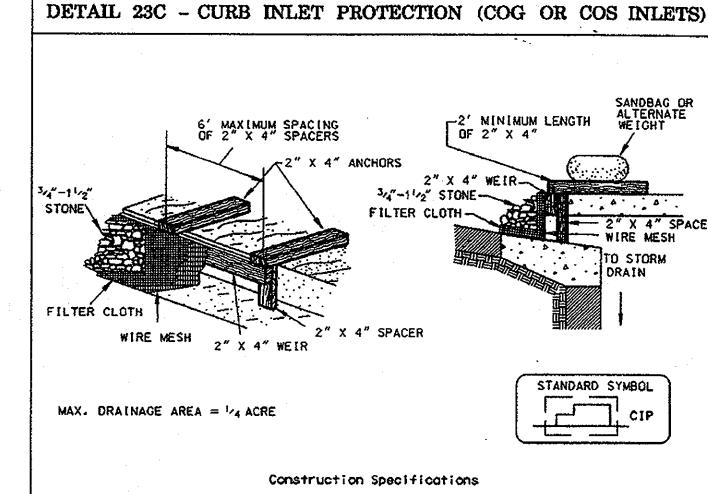
-16" MINIMUM HEIGHT OF

GEDTEXTILE CLASS F

- 8" MINIMUM DEPTH IN

GROUND





U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.

3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max, 4' apart).

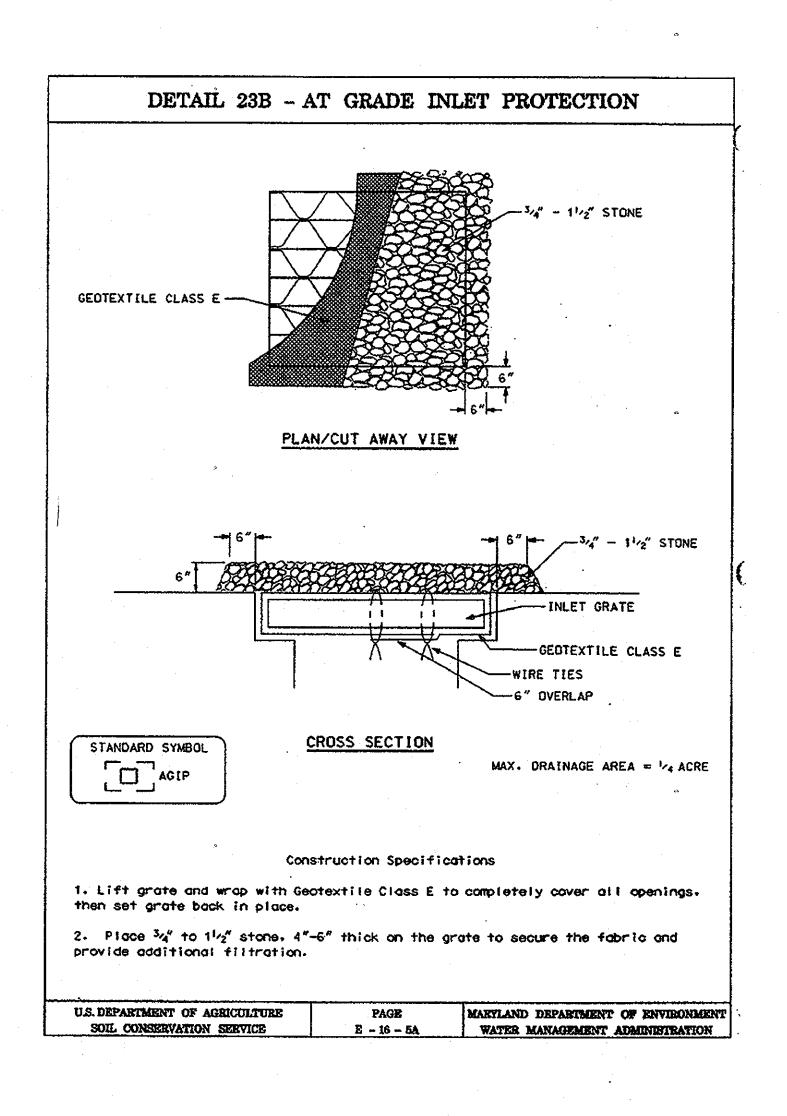
4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight. 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.

6. Form the  $\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the injet. Place clean  $\frac{3}{4}$  x  $1\frac{1}{2}$ stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when alogged with sediment.

8. Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION





ELECTION DISTRICT NO. 2 TAX MAP 17 & 24 REZONING CASE NUMBER ZB-941 SKETCH PLAN S-95-01 OWNER/DEVELOPER PRELIMINARY PLAN P-95-21 SITE PLAN SDP-96-11 WAL-MART REAL ESTATE BUSINESS TRUST MASS GRADING PLAN SDP-96-001 2001 SOUTHEAST 10TH STREET, SWDC FINAL ROAD CONSTRUCTION PLAN BENTONVILLE, AR 72716-0550 FOR NORTH RIDGE RD. F-96-01 FINAL RECORD PLATS

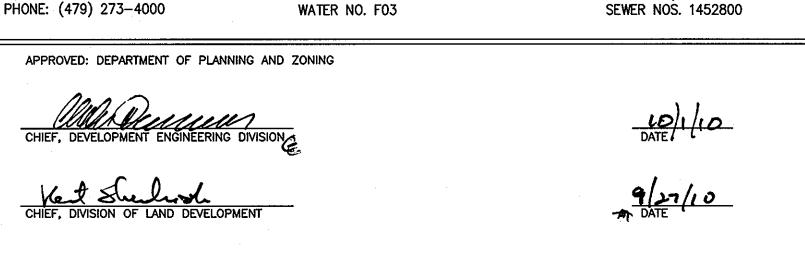
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HOWARD COUNTY, MARYLAND



WALMART STORE ELLICOTT CITY, WALM					
TM 24, TM GRID 6, P/O TM PARCEL 1085 2ND ELECTION DISTRICT, HOWARD COUNTY, MD					
CONCEPTUAL	DATE	SHEET			
EROSION AND SEDIMENT CONTROL PLAN	09/17/2010	OF 5 SHEETS			

REVISIONS | 9/17/10-CONCEPT |GD/KI COUNTY SUBMISSION

Valma

DESIGN DRAWN CHECKED SHEET

OF 5 SHEETS