



## CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

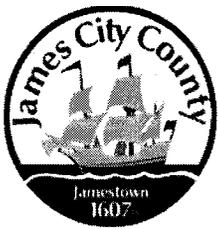
**BMP NUMBER:** WC039

**DATE VERIFIED:** July 11, 2012

**QUALITY ASSURANCE TECHNICIAN:** Leah Hardenbergh

  
\_\_\_\_\_

**LOCATION:** WILLIAMSBURG, VIRGINIA



# Stormwater Division

## MEMORANDUM

**DATE:** March 12, 2010  
**TO:** Michael J. Gillis, Virginia Correctional Enterprises Document Management Services  
**FROM:** Tina Cantwell, Stormwater  
**PO:** 270712  
**RE:** Files Approved for Scanning

---

**General File ID or BMP ID:** WC039

**PIN:** 0530200001A

**Subdivision, Tract, Business or Owner**

**Name (if known):**

Association at Stonehouse, Inc. (The)

**Property Description:**

Near (West of) 2924 Leather Leaf Drive

**Site Address:**

Stonehouse Subdivision

*(For internal use only)*

**Box** 13

**Drawer:** 9

**Agreements:** (in file as of scan date) N

**Book or Doc#:**

**Page:**

Comments

**James City County, Virginia  
Environmental Division**

**Stormwater Management/BMP Facilities  
Record Drawing/Construction Certification  
Review Tracking Form**

County Plan No.: S-30-97  
 Project Name: Stonehorse Sec 4A Leatherleaf BASIN G  
 Stormwater Management Facility: BASIN G Dry Pond 2924 Leatherleaf Drive

Phase:  I  II  III  
 Information Received. Date: 11-16-00  
 Administrative Check.  
 Record Drawing Date: 11-16-00  
 Construction Certification Date: 11-15-00  
 RD/CC Standard Forms (Required after Feb 1<sup>st</sup> 2001)  
 Insp/Maint Agreement Info: 9700 12857 AVB 81997  
 Other: \_\_\_\_\_

Standard E&SC Note on Approved Plan Requiring RD/CC or County comment in plan review file.  
 Yes  No Note/Sheet: NOTE 18 Sheet 12

Assign County BMP ID Code Code: WC 039

Log into Division's "As-Built" Tracking Log

Add Location to GIS Database Map. Obtain GIS site information (GPIN, Owner, Site Area, Address, etc.)

Preliminary Log into BMP Database (BMP ID #, Site Plan #, GPIN, Project Name)

Active Project File Review (correspondence, H&H, etc.)

Initial As-Built File setup.

Inspector Review.

Pre-Inspection Drawing Review (Quick look)

Final Inspection Date: 8/27/01

Record Drawing Review Date: 09/07/01

Construction Certification Review Date: 09/07/01

Actions:  
 No comments.  
 Comments. Letter Forwarded. Date: sept 10 01  
 Record Drawing (RD)  
 Construction Certification (CC)  
 Construction-Related (CR)  
 Site Issues (SI)  
 Other: \_\_\_\_\_

Second Submission: 4/14/02 RDOH

Third Submission: \_\_\_\_\_

Acceptable for stormwater management facility purposes (RD/CC/CR/Other). Proceed with bond release.

Notify Darryl & Joan of acceptability using email (preferred) or verbal.

Clean active file of all stormwater management related material and finish/establish "As-Built" file.

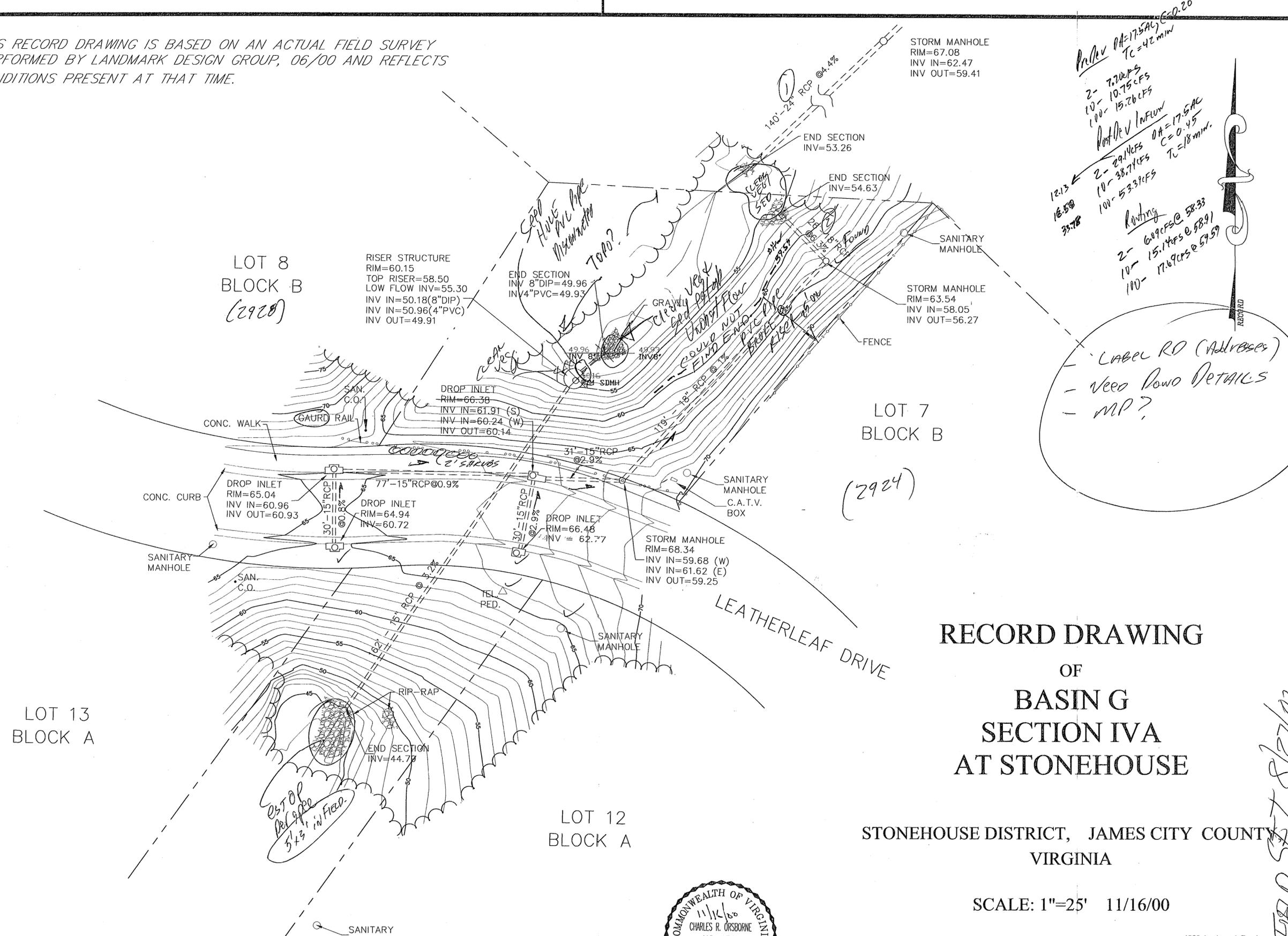
Add to County BMP Inventory/Inspection schedule (Phase I, II or III).

Copy Final Inspection Report into County BMP Inspection Program file.

Add to JCC Hydrology & Hydraulic database (optional).

BMP Certification Information Acceptable  
 Plan Reviewer: [Signature] Date: 6/27/02

NOTE: THIS RECORD DRAWING IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY LANDMARK DESIGN GROUP, 06/00 AND REFLECTS CONDITIONS PRESENT AT THAT TIME.



Profile 0A=17.5AC @ 0.20  
 Tc=42 min  
 2- 7.20 cfs  
 10- 10.75 cfs  
 100- 15.26 cfs  
 Roof Dev Inflow  
 2- 29.1 cfs  
 10- 38.7 cfs  
 100- 53.3 cfs  
 Routing  
 2- 6.09 cfs @ 58.33  
 10- 15.14 cfs @ 58.91  
 100- 17.69 cfs @ 59.59

RECORD DRAWING  
 OF  
 BASIN G  
 SECTION IVA  
 AT STONEHOUSE

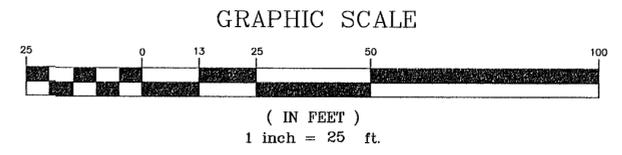
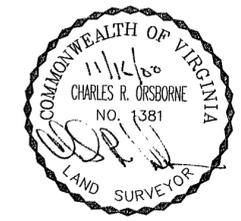
STONEHOUSE DISTRICT, JAMES CITY COUNTY  
 VIRGINIA

SCALE: 1"=25' 11/16/00

**LANDMARK**  
**DESIGN GROUP**  
 Engineers • Planners • Surveyors  
 Landscape Architects • Environmental Consultants

4029 Ironbound Road  
 Suite 100  
 Williamsburg, VA 23188  
 Tel. (757) 253-2975  
 Fax (757) 229-0049  
 Email: lmdg@landmarkdgb.com

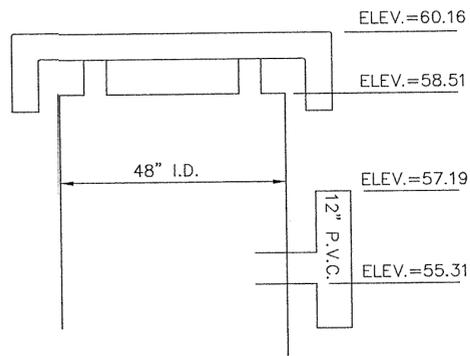
5544 Greenwich Road  
 Suite 200  
 Virginia Beach, VA 23462  
 Tel. (757) 473-2000  
 Fax (757) 497-7933  
 Email: lmdg@landmarkdgb.com



DRAWN BY: PF  
 CHKD. BY: RSP  
 PROJ. NO.: 1990131-000.46  
 DWG. NO.: 11682-W

SJT FIELD 5/8/07 8/27/00

NOTE: THIS RECORD DRAWING IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY LANDMARK DESIGN GROUP, 06/00 AND REFLECTS CONDITIONS PRESENT AT THAT TIME.



RISER STRUCTURE DETAIL (N.T.S.)

LOT 8  
BLOCK B

LOT 7  
BLOCK B  
NO. 2924 LEATHERLEAF DRIVE

LOT 13  
BLOCK A

LOT 12  
BLOCK A

RECORD DRAWING  
OF  
BASIN G  
SECTION IVA  
AT STONEHOUSE

STONEHOUSE DISTRICT, JAMES CITY COUNTY, VIRGINIA

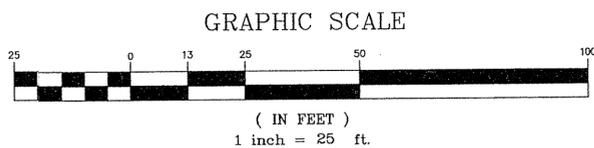
SCALE: 1"=25' 11/16/00

REVISED PER COUNTY COMMENTS: 2/25/03

APPROVED  
James City County  
Environmental Division  
By: *[Signature]*  
Date: 04-17-03



APPROVED  
James City County  
Environmental Division  
By: *[Signature]*  
Date: 6-27-03



COUNTY PLAN NO. S-30-97  
BMP ID NO. WC039

**LANDMARK  
DESIGN GROUP**

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Landscape Architects • Environmental Consultants

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Email: lmdg@landmarkdgb.com

DRAWN BY : PF	PROJ. NO. : 1990131-000.46
CHKD. BY : RSP	DWG. NO. : 11682 W

WC039

Scott - 11/20  
 For Review  
 Daryl

# LANDMARK DESIGN GROUP TRANSMITTAL



To: DARYL COOKE  
 Company: JAMES CITY CO. ENVIRONMENTAL  
 From: PETER FARRELL  
 Date: 11/16/00  
 Subject: STORMWATER POND RECORD DRAWINGS FOR STONEHOUSE  
 LMDG Job No.: 1990131-000.46

Attached please find:

- Prints
- Plans
- Specifications
- Drawings
- Report
- Letter
- 

Transmitted as checked below:

- For your use
- As requested
- For review and comment
- For approval
- Approved
- 

Copies	Date	Drawing No.	Description
2 EA. 12 TOTAL	11/16/00	11680-11686	RECORD DRAWINGS FOR VARIOUS STORMWATER PONDS AT STONEHOUSE
			{ WC 037, WC 038, WC 039, WC 040 }
			{ WC 041, WC 042, WC 043 }

Notes: LETTERS OF CERTIFICATION FROM DICK PHILLIPS, P.E. ARE BEING SENT TO YOU SEPERATELY

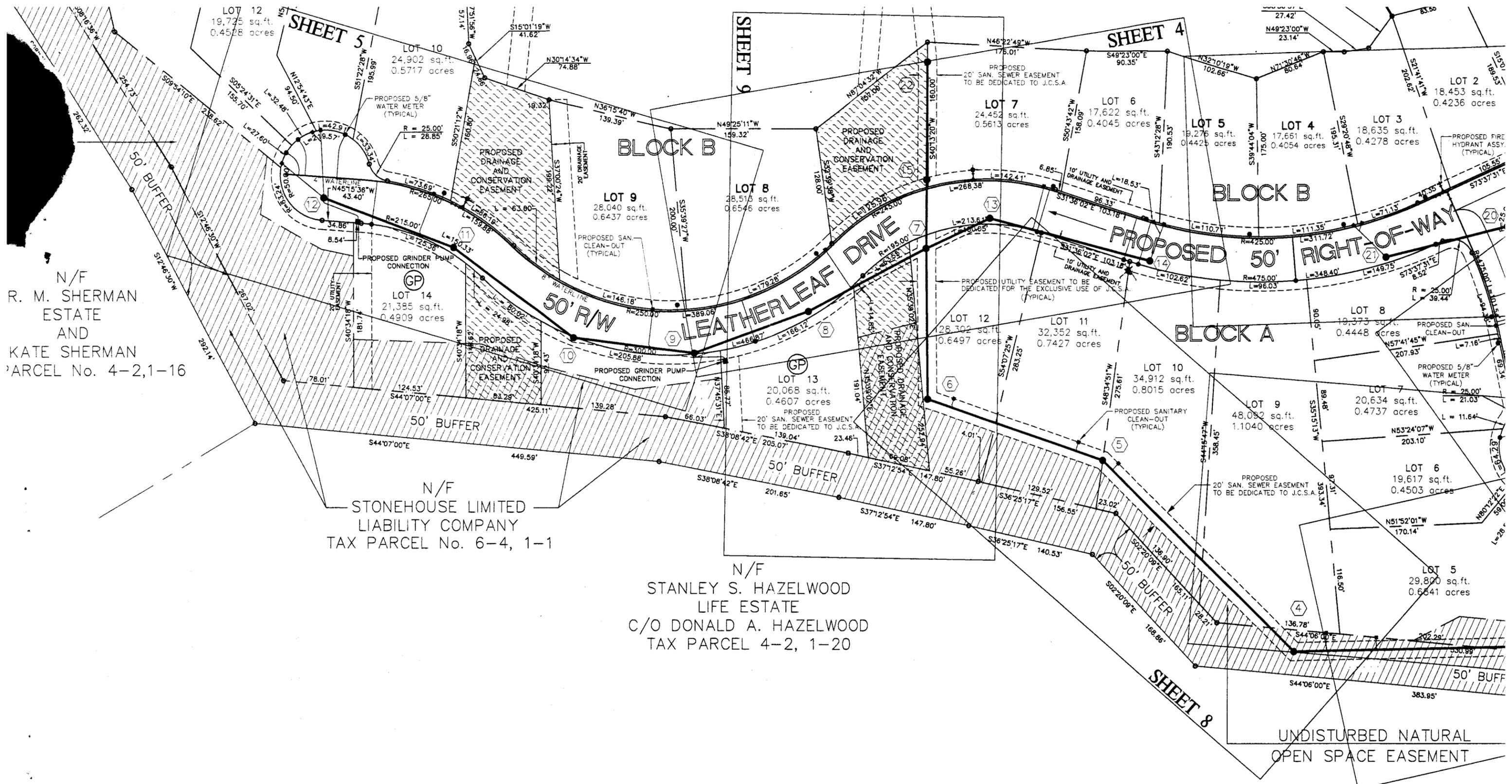
Copies  
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 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_

Enclosures

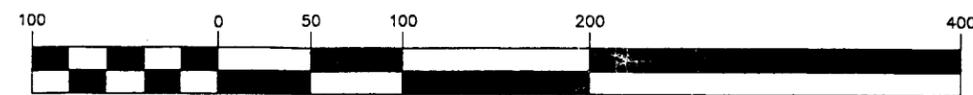
LandMark Design Group, Inc.

By: PF \_\_\_\_\_

Engineers ♦ Planners ♦ Surveyors ♦ Landscape Architects ♦ Environmental Consultants  
 4029 Ironbound Road, Suite 100, Williamsburg, VA 23188 (757) 253-2975 FAX: (757) 229-0049 lmdg@landmarkdgb.com



GRAPHIC SCALE



( IN FEET )  
1 inch = 100 ft.

S-30-97; NC 039

**POSTED SPEED LIMIT = 25 M.P.H.**  
**DESIGN SPEED LIMIT = 25 M.P.H.**



FUTURE FORCE MAIN (BY LOT OWNER)

LOT 13

GP

LEATHERLEAF DRIVE

SEE SHEETS 3 THRU 5 FOR PLANS OF LEATHERLEAF DRIVE

CLEARING LIMITS (TRP.)

RISER STRUCTURE SEE DETAILS SHEET 11

EW-11 WITH GALVINIZED STEEL GRATE COVERED WITH FILTER FABRIC AND 2 cu. yds. OF No. 3 STONE OVER AND AROUND EW-11 STRUCTURE.

ROCK A

LIMITS OF THE WETLANDS

PROPOSED DRAINAGE AND CONSERVATION EASEMENT

BASIN G

EC-1 CLASS I DRY RIP RAP  
C100=11.90  
L=20'  
W=22'  
D50=1.2'

EC-1 CLASS I DRY RIP RAP  
C100=5.54  
L=20'  
W=10'  
D50=1.0'

15" ES-1  
INV.=36.5

B/M

RAINAGE AND VATION EASEMENT

MATCHLINE 22+00 SEE SHEET 9

LIMITS OF THE WETLANDS

PROPOSED 20' SAN SEWER EASEMENT TO BE DEDICATED TO J.C.S.A.

PROPOSED 20' SAN SEWER EASEMENT TO BE DEDICATED TO J.C.S.A.

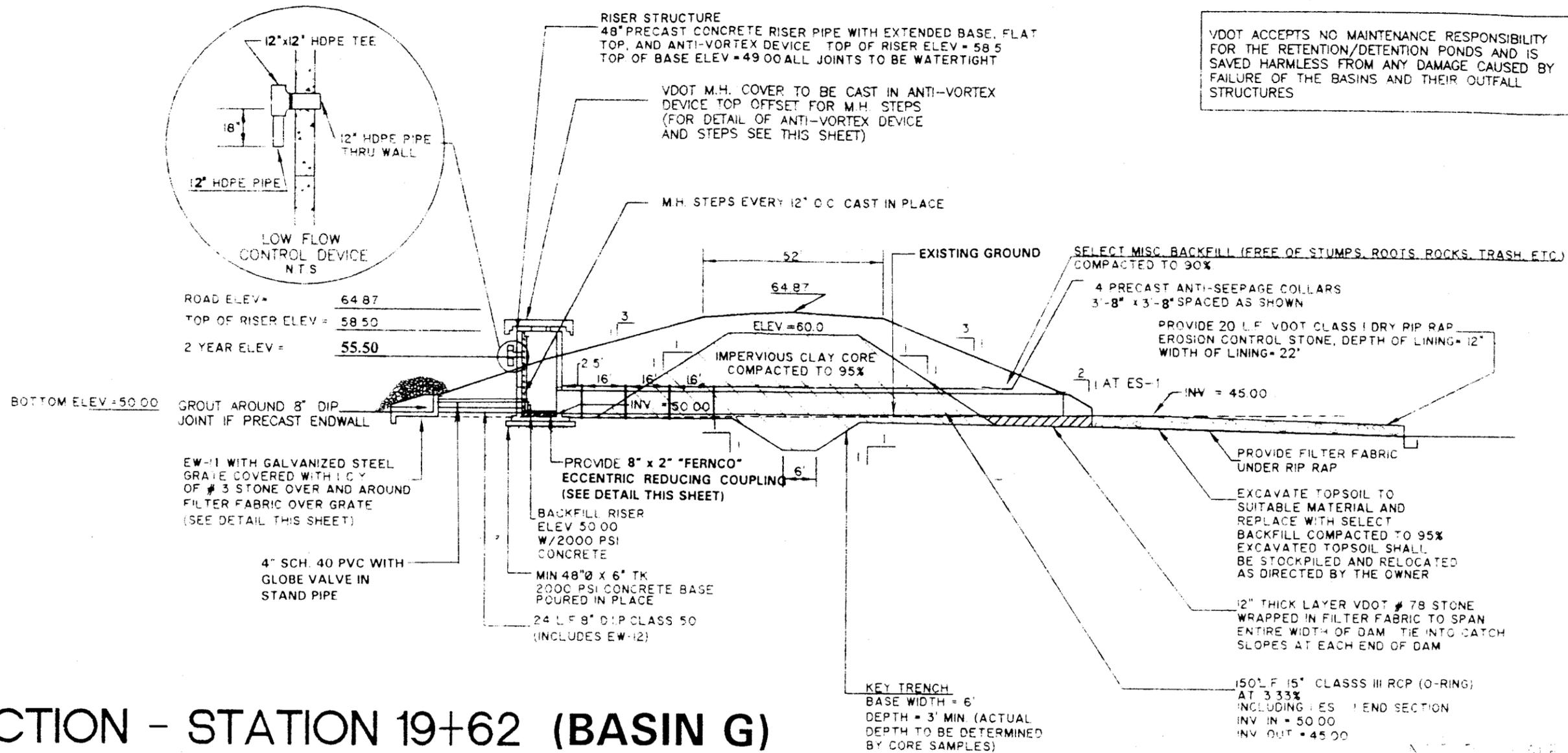
B/M STABILIZE SLOPE WITH EC-2 (EXCELSIOR MATTING)

NOTE THE VIRGINIA DEPARTMENT OF TRANSPORTATION DOES NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF THE RETENTION POND OR ITS STRUCTURES, AND SHALL BE SAVED HARMLESS FROM ANY DAMAGE.

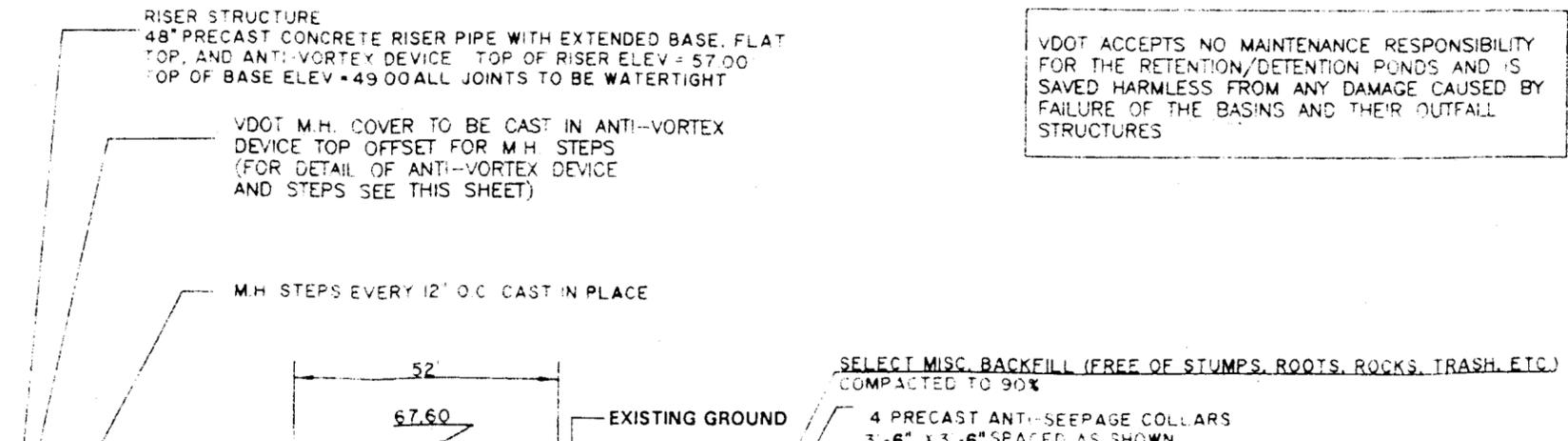
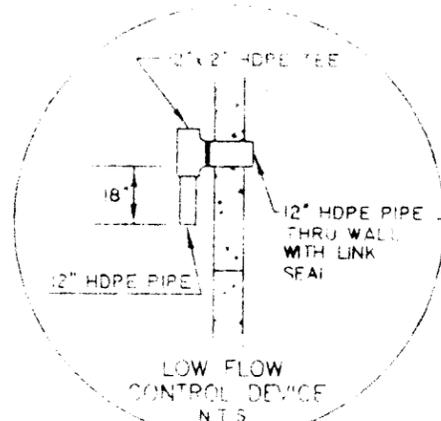
THE VIRGINIA DEPARTMENT OF TRANSPORTATION WILL NOT BE RESPONSIBLE FOR MAINTENANCE OF THE PEDESTRIAN PATH WHETHER OR NOT THE PATH IS WITHIN VDOT RIGHT OF WAY.

LOT 12

LOT 7



# SECTION - STATION 19+62 (BASIN G)



GLOBE VALVE IN STAND PIPE

2000 PSI CONCRETE BASE  
POURED IN PLACE  
18 L.F. 8" D.I.P CLASS 50  
(INCLUDES EW-12)

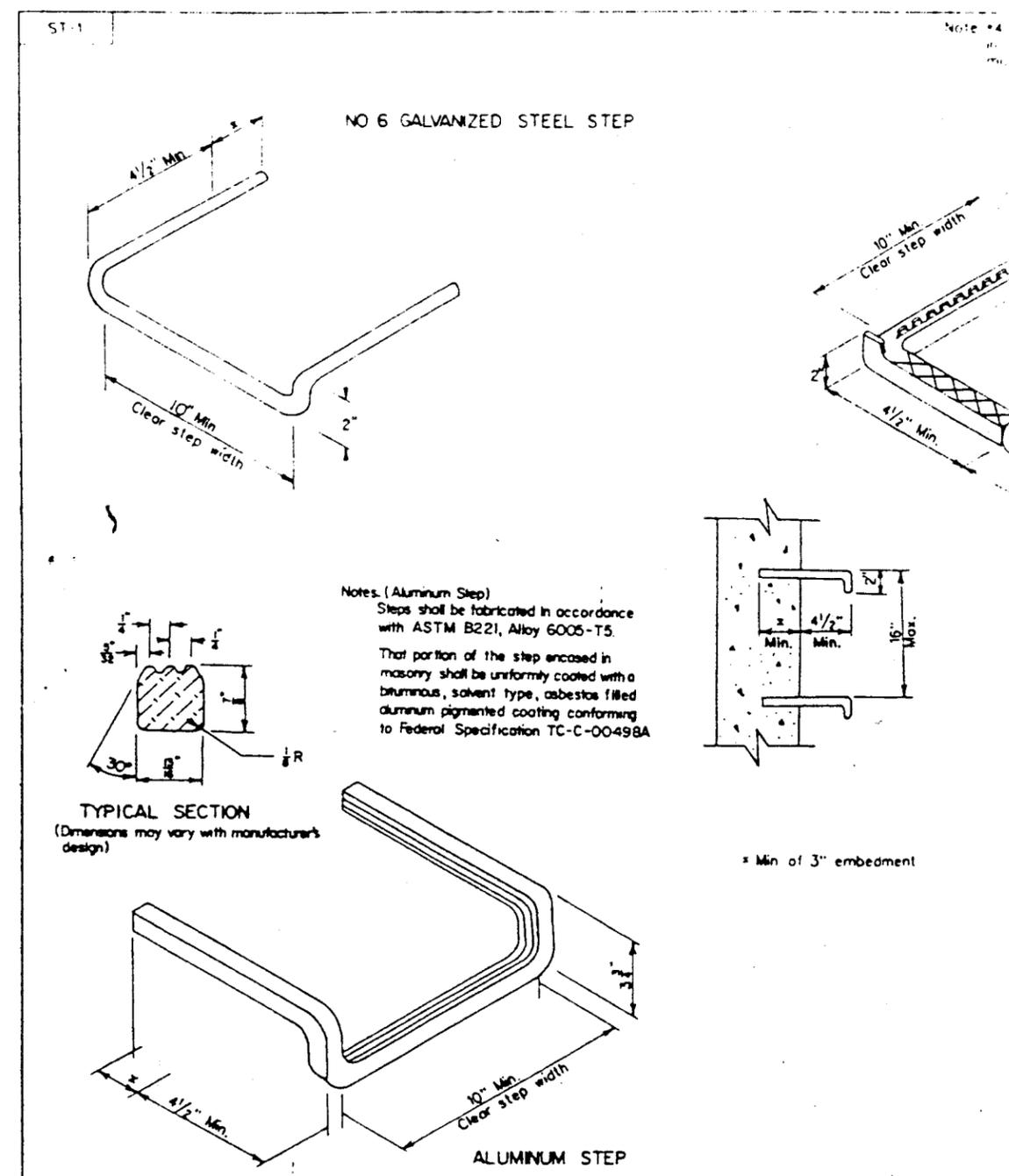
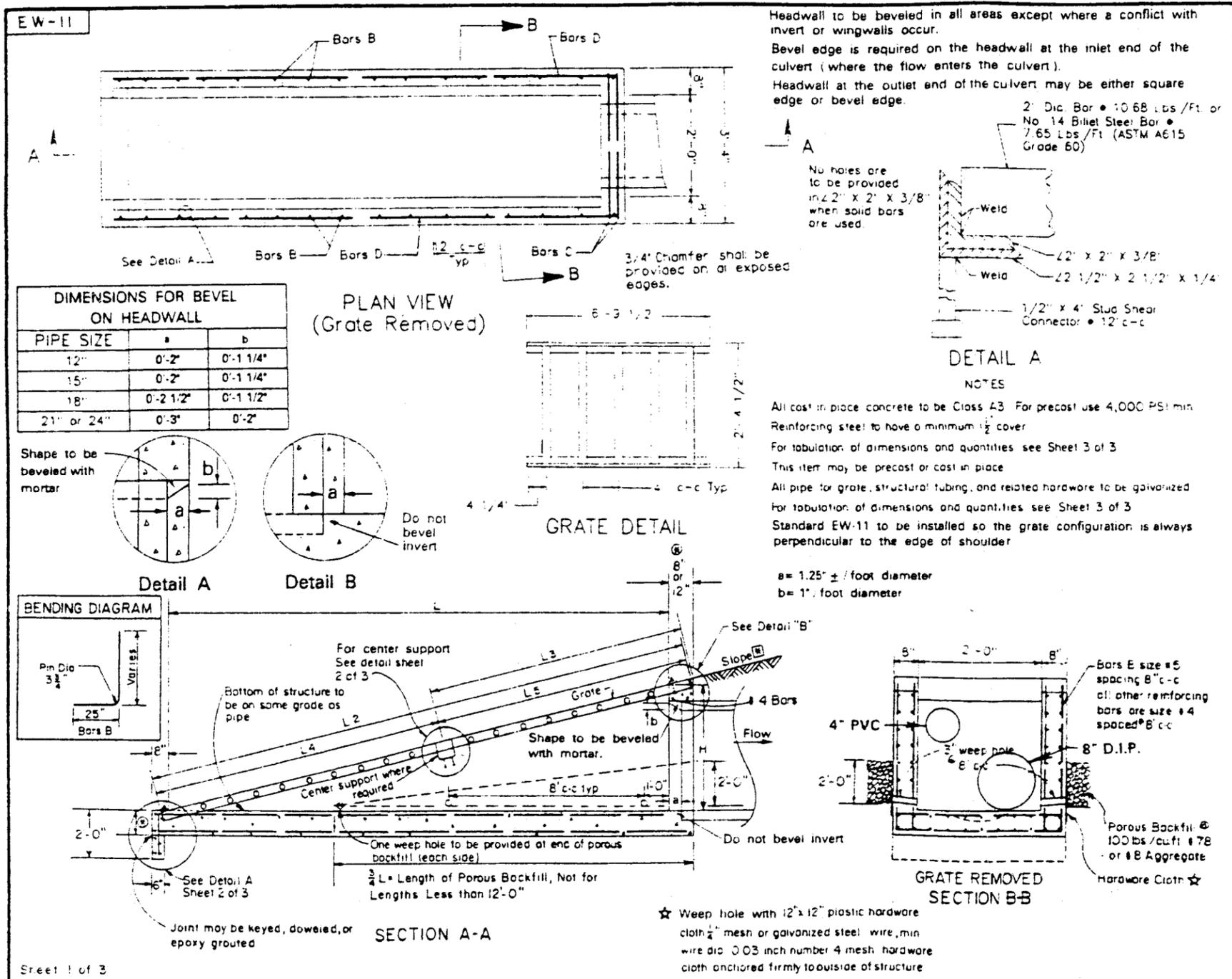
12" THICK LAYER VDOT # 7B STONE  
WRAPPED IN FILTER FABRIC TO SPAN  
ENTIRE WIDTH OF DAM. TIE INTO CATCH  
SLOPES AT EACH END OF DAM

KEY TRENCH  
BASE WIDTH = 6'  
DEPTH = 3' MIN (ACTUAL  
DEPTH TO BE DETERMINED  
BY CORE SAMPLES)

160 L.F. 15" CLASS V RCP (O-RING)  
AT 4.38%  
INCLUDING 1 ES - 1 END SECTION  
INV. IN = 50.00  
INV. OUT = 43.00

NOT TO SCALE

# SECTION - STATION 24+15 (BASIN A)



## PIPE ENDWALL WITH LOAD-CARRYING GRATE MODIFIED

VIRGINIA DEPARTMENT OF TRANSPORTATION

**SPECIFICATION REFERENCE**

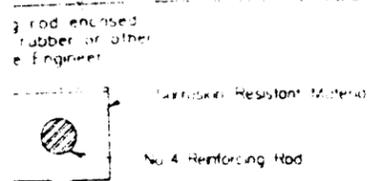
105.04
241
302

101.26

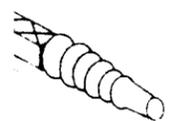
## STANDARD STEP

VIRGINIA DEPARTMENT OF TRANSPORTATION

TUBING SHALL COMPLY WITH ASTM F667 AND AASHTO M294

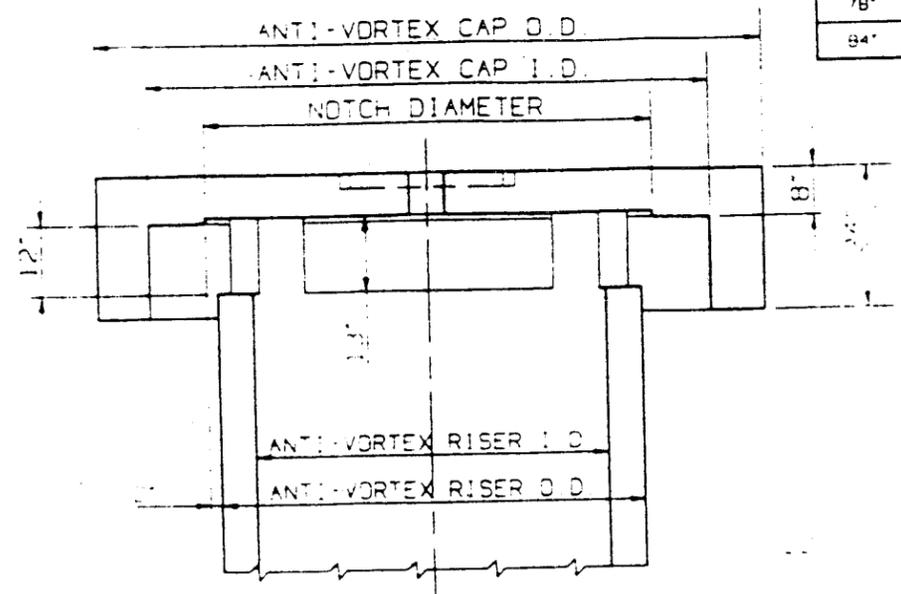


TYPICAL SECTION  
Dimensions may vary with manufacturer's design



- NOTES**
- Reinforced in all structures with a depth of 4'-0" or otherwise noted on the plans.
  - Reinforcing rods shall protrude 4 1/2" from inside face of structure.
  - Reinforcing rod spacing to be 16" c-c.
  - Structure shall stand a minimum load of 300 pounds when tested from the face of the support.
  - Reinforcing rods shall be vertically aligned and uniformly spaced for height of any structure.
  - Reinforcing steps may be cast in place, mortared into holes, fabricated, or driven.
  - Dimensions, configuration, or materials from those shown herein may be used provided they meet the minimum requirements herein and the Contractor has furnished the details and certified test reports of the proposed materials as received written approval from the Engineer for such use.
  - Reinforcing rods shall be provided with slip-resistant ends as but not limited to, corrugated, or hooked surfaces.

CAST IN TOP SLAB  
**PLAN**  
PROPOSED 4" Ø ORIFACE OVER VALVE STEM EXTENSION

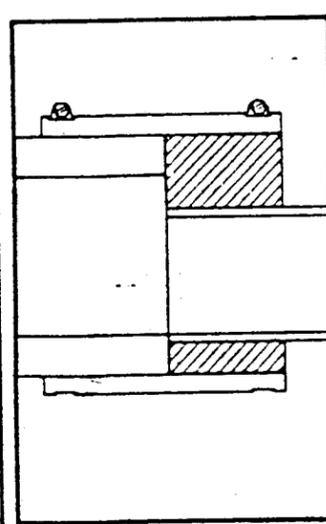
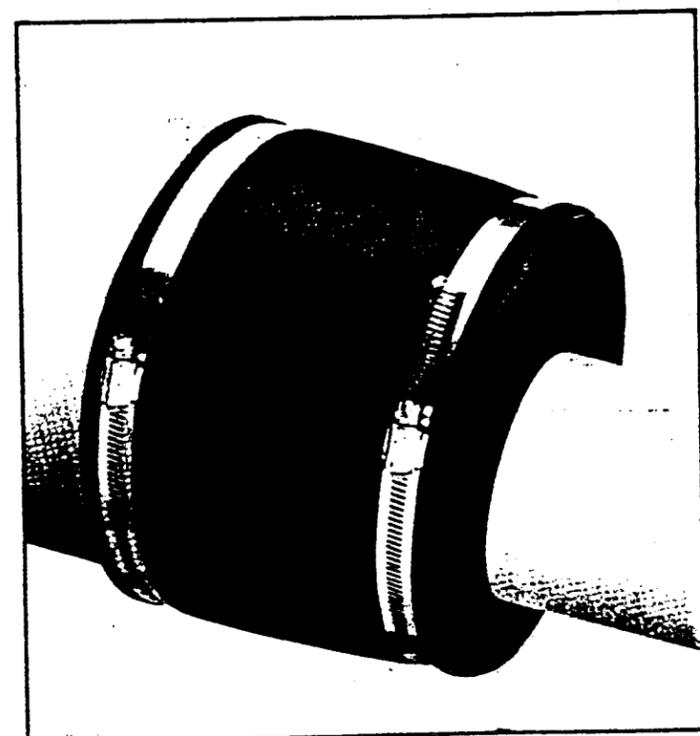


60"	72"	96"	114"	76"	5.46 T
66"	80 1/2"	96"	114"	84 1/2"	5.39 T
72"	96"	108"	126"	90"	6.83 T
78"	94 1/2"	126"	147"	96 1/2"	8.97 T
84"	100"	126"	147"	104"	8.90 T

**SECTION**

**ANTI-VORTEX DEVICE DETAIL**  
N.T.S.

# ECCENTRIC COUPLINGS



Clay to Clay	Concrete to CI/Plastic
Clay to CV/Plastic	A-C/Ductile to CI/Plastic
Clay to A-C/Ductile	A-C/Ductile to A-C/Ductile
Concrete to Concrete	CI/Plastic to CV/Plastic

When ordering, please provide size and piping materials to be connected.

## Ferrocement Eccentric Couplings

help maintain an even, continuous flowline in critical grade conditions. They're easy to install and available to fit all common sewer pipe size combinations. Made of tough, flexible elastomeric PVC, Eccentric Couplings seal reliably against infiltration and exfiltration. Eccentric bushings fit one end of Ferrocement Standard Flexible Couplings.

Available for all common sewer pipe materials.

DES. L&M  
DWN. GSW  
CHK. J.L.H.

DEVELOPMENT AREA ONE, PHASE I  
SECTION IVA  
AT STONEHOUSE  
FOR  
CONSTRUCTION

PROJ. NO. 96038  
SCALE: AS NOTE  
SHEET 11 OF 11  
DWG. NO.

Larry S. Barry, P.E., President  
Norman H. Mason, L.S., Vice Pres.  
Vaughn B. Rinner, C.L.A.  
Kenneth A. Dierks  
Robert P. Kerr, R.E.P., P.W.S.

# LANDMARK DESIGN GROUP

Clayton E. Massey, P.E.  
Charles R. Orsborne, L.S.  
Stephen A. Romeo, L.S.  
Mark W. Strickland, P.E.  
A. Gary Webb, P.E.

November 15, 2000



Mr. Darryl E. Cook  
Environmental Director  
James City County  
P.O. Box 8784  
Williamsburg, VA 23187-8784

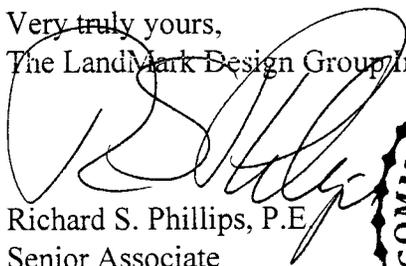
Re: Stonehouse Development Co., L. L. C.  
BMP Basins A, B & G Construction Certificate  
Section IVA, Leather Leaf  
J. C. C. Case No. S-30-97

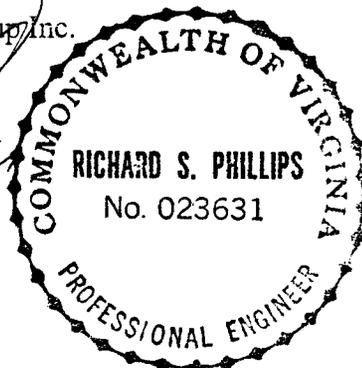
Dear Darryl:

This is to confirm that periodic inspection was provided by John L. Hutcherson, P. E., a Professional Engineer previously employed by this firm during the progress of construction of the subject storm water management basins. I, and individuals under my supervision, have reviewed the work and construction reports. To the best of my knowledge and judgment, the structure has been constructed in accordance with the approved plans and specifications.

Should you have any questions or wish to discuss this further, please call.

Very truly yours,  
The Landmark Design Group, Inc.

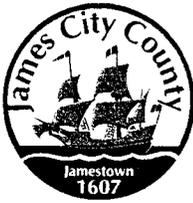
  
Richard S. Phillips, P.E.  
Senior Associate



RSP/cjp

Cc: Brandon Forrest  
File: 1990131-000.46

Engineers ♦ Planners ♦ Surveyors ♦ Landscape Architects ♦ Environmental Consultants  
4029 Ironbound Road, Suite 100, Williamsburg, VA 23188 (757) 253-2975 FAX: (757) 229-0049 [Imdgm@landmarkdgb.com](mailto:Imdgm@landmarkdgb.com)



# DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784  
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE  
(757) 253-6626  
codecomp@james-city.va.us

ENVIRONMENTAL DIVISION  
(757) 253-6670  
environ@james-city.va.us

PLANNING  
(757) 253-6685  
planning@james-city.va.us

COUNTY ENGINEER  
(757) 253-6678  
INTEGRATED PEST MANAGEMENT  
(757) 259-4116

September 10, 2001

LandMark Design Group  
4029 Ironbound Road  
Williamsburg, Va. 23188  
Attn: Mr. Peter Farrell

Re: Stonehouse Section 4A Leather Leaf, Basin G  
Dry Pond at Road near 2924 Leather Leaf  
County BMP ID Code: WC 039

Dear Mr. Farrell:

The Environmental Division has reviewed record drawings and construction certifications as submitted to our office on November 16<sup>th</sup> 2000 for various stormwater management facilities located within Stonehouse. The record drawings and construction certifications provide as-built information for seven (7) stormwater management BMP extended dry detention facilities located within the community. For simplicity, you will receive separate correspondence relative to each of the facilities.

Based on our review of information as submitted and a concurrent field observation as performed on August 27<sup>th</sup> 2001, the following items must be addressed for **Basin G Leather Leaf (WC 039)** prior to release of the developer's surety instrument for the stormwater management/BMP facility:

### Construction Certification:

1. The construction certification dated November 15<sup>th</sup> 2000 is **satisfactory**.

### Record Drawing:

2. Add the detention basin outlet structure detail as provided on Sheet 11 of the approved plan set to the as-built (record) drawing for the facility. This detail provides important information about the facility. Annotate the detail as necessary with field-obtained construction information.
3. Show the following additional information on the record drawing: topography along the west side of the basin; size of riser; size of the higher level (dewatering) orifice; and street address on Lot 7 as 2924 Leather Leaf Drive.
4. If possible, add the following County identifiers to the lower right hand corner of the record drawing: County Plan No. S-30-97 and BMP ID No. WC 039.

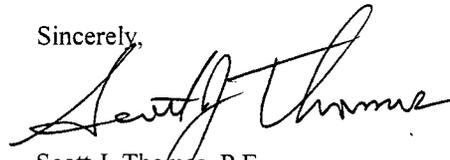
### Construction-Related Items:

5. Remove wood debris and trash from the southwest corner of the base (west of the riser).
6. Clear vegetation within 10 feet of the outfall of the 15-inch pond barrel on the downstream side. Flow from the basin should be unobstructed.

7. Clear and remove vegetation within 10 feet of the low flow control orifice (and EW-11) located in the bottom of the basin.
8. Clean and remove accumulated sediment and debris at the upstream end of the low flow orifice and the EW-11 headwall. These structures could not be physically found. The low flow orifice for this structure is an 8-inch ductile iron pipe which extends out northward from the riser. The 8-inch pipe reduces to a smaller diameter within the riser and has an EW-11 end wall on it's upstream side to serve as a trash rack protection device.
9. At the base of the riser structure on the north side, there appears to be a subsidence (seep) hole with evidence of broken PVC pipe, indicative of a break in the 4-inch PVC drain/valve line. Uncover the drains at the base of the riser for inspection and repair as necessary to conform with the approved plan.
10. Clear and remove willows, vegetation and sediment with 15 feet of the outfall ends of the 18-inch and 24-inch storm drains which inflow to the basin at the north (golf course) side. Flow into the pond must not be obstructed by sediment and vegetation.

Once this work is satisfactorily completed, contact our office appropriately. We can then proceed with final release of the surety on the project. One reproducible and one blue/black line set of the record drawings will be required once the above items are adequately addressed. Please contact me at 757-253-6639 or the assigned Environmental Division inspector, Gerry Lewis, at 757-253-6672 if you have any further comments or questions.

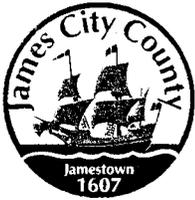
Sincerely,



Scott J. Thomas, P.E.  
Civil Engineer  
Environmental Division

cc: James H. Bennett (fax)

G:\SWMProg\AsBuilts\S3097.wc039



# DEVELOPMENT MANAGEMENT

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(757) 253-6685  
planning@james-city.va.us

COUNTY ENGINEER  
(757) 253-6678  
INTEGRATED PEST MANAGEMENT  
(757) 259-4116

September 10, 2001

LandMark Design Group  
4029 Ironbound Road  
Williamsburg, Va. 23188  
Attn: Mr. Peter Farrell

*Reinspect  
4-14-03*

Re: Stonehouse Section 4A Leather Leaf, Basin G  
Dry Pond at Road near 2924 Leather Leaf  
County BMP ID Code: WC 039

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1. The construction certification dated November 15<sup>th</sup> 2000 is **satisfactory**.

Record Drawing:

2. ~~Add the detention basin outlet structure detail as provided on Sheet 11 of the approved plan set to the as-built (record) drawing for the facility. This detail provides important information about the facility. Annotate the detail as necessary with field-obtained construction information.~~
3. Show the following additional information on the record drawing: topography along the west side of the basin; size of riser; size of the higher level (dewatering) orifice; and street address on Lot 7 as 2924 Leather Leaf Drive.
4. If possible, add the following County identifiers to the lower right hand corner of the record drawing: County Plan No. S-30-97 and BMP ID No. WC 039.

*2-27-03  
OK ✓*

*2-27-03  
OK ✓*

Construction-Related Items:

5. Remove wood debris and trash from the southwest corner of the base (west of the riser).
6. Clear vegetation within 10 feet of the outfall of the 15-inch pond barrel on the downstream side. Flow from the basin should be unobstructed.

*4-14-03*

✓ 4-14-03  
OK

7.

Clear and remove vegetation within 10 feet of the low flow control orifice (and EW-11) located in the bottom of the basin.

8.

NO RAINWATER NECESSARY

6-29-03

Clean and remove accumulated sediment and debris at the upstream end of the low flow orifice and the EW-11 headwall. These structures could not be physically found. The low flow orifice for this structure is an 8-inch ductile iron pipe which extends out northward from the riser. The 8-inch pipe reduces to a smaller diameter within the riser and has an EW-11 end wall on it's upstream side to serve as a trash rack protection device.

✓ 9-14-03  
OK

9.

At the base of the riser structure on the north side, there appears to be a subsidence (seep) hole with evidence of broken PVC pipe, indicative of a break in the 4-inch PVC drain/valve line. Uncover the drains at the base of the riser for inspection and repair as necessary to conform with the approved plan.

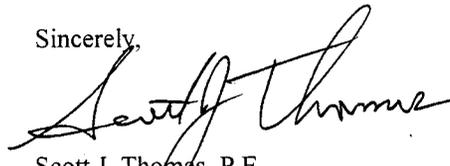
✓ 4-14-03  
OK

10.

Clear and remove willows, vegetation and sediment within 15 feet of the outfall ends of the 18-inch and 24-inch storm drains which inflow to the basin at the north (golf course) side. Flow into the pond must not be obstructed by sediment and vegetation.

Once this work is satisfactorily completed, contact our office appropriately. We can then proceed with final release of the surety on the project. One reproducible and one blue/black line set of the record drawings will be required once the above items are adequately addressed. Please contact me at 757-253-6639 or the assigned Environmental Division inspector, Gerry Lewis, at 757-253-6672 if you have any further comments or questions.

Sincerely,



Scott J. Thomas, P.E.  
Civil Engineer  
Environmental Division

cc: James H. Bennett (fax)

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**James City County Environmental Division  
Stormwater Management / BMP Inspection Report  
Detention and Retention Pond Facilities**

5-30-97  
SPIN 0530200001A

Database Inventory No. (if known): WC 039

Name of Facility: Stonehouse Leatherleaf 4A BASIN BMP No.: 3 of 3 Date: 08/27/01

Location: Near (west) of 2924 Leatherleaf Drive, Middle Part of Road.

Name of Owner: Stonehouse Limited Liability

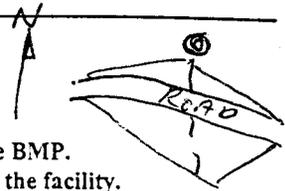
Inspector: SJ Thomas

Type of Facility: Dry Detention Basin

Weather Conditions: Sunny, Hot, 80's 1:15 pm

If an inspection item is not applicable, mark NA, otherwise mark the appropriate column.

- O.K. - The item checked is in adequate condition and the maintenance program is currently satisfactory.
- Routine - The item checked requires attention, but does not present an immediate threat to the function of the BMP.
- Urgent - The item checked requires immediate attention to keep the BMP operational and prevent damage to the facility.



Provide an explanation and details in the comment column, if routine or urgent are marked.

Facility Item	O.K.	Routine	Urgent	Comments
<b>Embankments and Side Slopes:</b> <u>Road is Embankment; 55' Topwidth; 3H:1V</u>				
Grass Height	✓			<u>1-2" upstream + d/s SLOPES. MOWED.</u>
Vegetation Condition	✓			<u>Some bare spots OK.</u>
Tree Growth	✓			<u>None.</u>
Erosion	✓			<u>Minor.</u>
Trash & Debris	✓			<u>None.</u>
Seepage	✓			<u>None observed.</u>
Fencing or Benches				
<b>Interior Landscaping/Planted Areas:</b> <input type="checkbox"/> None <input type="checkbox"/> Constructed Wetland/Shallow Marsh <input checked="" type="checkbox"/> Naturally Established Vegetation				
Vegetated Conditions	✓			<u>Cattail, Sedges, Weeds</u>
Trash & Debris	✓			<u>Some Willows East &amp; North</u>
Floating Material	✓			<u>back sides. Overall pool area</u>
Erosion	✓			<u>is clean.</u>
Sediment	✓			
Dead Plant	✓			
Aesthetics				<u>Natural Look</u>
Other				
<u>SF Lots, ROAD + Golf Course Area Service.</u>				

Facility Item	O.K.	Routine	Urgent	Comments
<b>Water Pools</b>	<input type="checkbox"/> Permanent Pool (Retention Basin) <input type="checkbox"/> Shallow Marsh (Detention Basin) <input checked="" type="checkbox"/> None (Detention Basin)			
Shoreline Erosion	✓			None. Good Veg Cover.
Algae	✓			Basin dry. Trickle flow in BMP orif.
Trash & Debris	✓			
Sediment	✓			
Aesthetics	✓			
Other				
<b>Inflow Structures (Describe Locations):</b>	24" RCP AND 18" RCP SO North (BACK) opposite riser.			
Condition of Structure	✓			
Erosion	✓			
Trash and Debris		✓		Remove Veg 15' of pipe s/sed.
Sediment		✓		
Aesthetics				
Other				
<b>Principal Flow Control Structure - Intake, Riser, etc. (Describe Location):</b>	48" RCP Riser w/ 8" RCP CAP; 10' Deep.			
Condition of Structure	✓			GREEN Colored:
Corrosion	✓			CLEAN, NO SED.
Trash and Debris	✓			
Sediment		✓	✓	Clear veg + sed end of 4" con flow out. 2" LFO appears disconnected at riser.
Aesthetics	✓			
Other				LOW FLOW CRIF 8" DIP TO 4" PVC; 4" GV DRAIN; 12" PVC CRIF
<b>Principal Outlet Structure - Barrel, Conduit, etc. :</b>	15" RCP w/ ES-1; OP riprap			
Condition of Structure	✓			RCP w/ ES-1
Settlement	✓			
Trash & Debris	✓			Noticeable orange color to discharge.
Sediment				
Erosion				
Other		✓		OP only 5' L x 3' WIDE
<b>Emergency Spillway (Overflow):</b>	None. ROAD LOW Pt. IS ES.			
Vegetation				
Lining				
Erosion				
Trash & Debris				
Other				
West of Pond Woods + natural. East of Pond willows + landscape North is 600F Course.				

Nuisance Type Conditions:

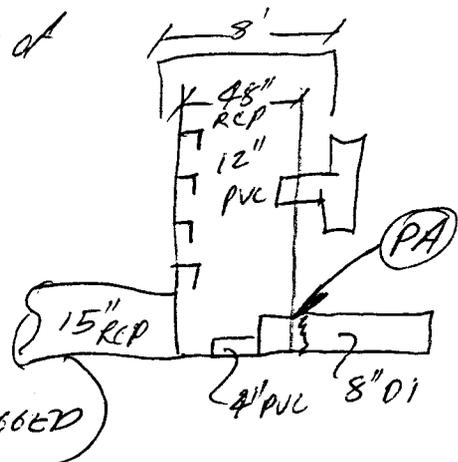
Mosquito Breeding	✓			None.
Animal Burrows	✓			
Graffiti	✓			
Other				

Surrounding Perimeter Conditions: *WOODS, LOTS & GOLF COURSE*

Land Uses	✓			
Vegetation	✓			
Trash & Debris	✓			
Aesthetics	✓			
Access /Maintenance Roads or Paths	✓			Good Access from Leather Leaf Drive.
Other				

Remarks:

- ▷ Need of meeting design spec on barrel out.
- ▷ clear veg 15' from barrel outfall + riser.
- ▷ Noticeable orange-color in barrel outflow and silts. Possible barrel joint separation and piping of road emb soils into outfall pipe. (Note: Also v/s in riser; OK.)
- ▷ wood debris + trash SW corner of basin.
- ▷ clear veg + sed from entrance end to 4" low flow orif. PVC pipe appears disintegrated at riser as there is a large seep hole at base of riser and PVC pipe appears disintegrated. Problem with low flow drain!
- ▷ clear + remove sed + veg accumulations 15' from 2 pipe inflows (18" + 24")



Overall Environmental Division Internal Rating: 2 (Low Flow ORIFICE BROKEN, CLOGGED)

Signature: *Scott Thorne P.E.*  
 Title: Civil Engineer ENV DIV.

Date: 08/27/01 1:51pm

WATERSHED	WC	MAINTENANCE PLAN	No	CTRL STRUC DESC	RCP Riser
BMP ID NO	039	SITE AREA acre	20.13	CTRL STRUC SIZE inches	48
PLAN NO	S-30-97	LAND USE	Planned Res Unit D	OTLT BARRL DESC	RCP Barrel
TAX PARCEL	(05-03)(02-1A)	old BMP TYP	Dry Pond	OTLT BARRL SIZE inch	15
PIN NO	0530200001A	JCC BMP CODE			
CONSTRUCTION DATE	11/16/2000	POINT VALUE	4	EMERG SPILLWAY	No
PROJECT NAME	Stonehouse Sec 4A Leather Leaf			DESIGN HW ELEV	59.59
FACILITY LOCATION	Near (west of) 2924 Leather Leaf			PERM POOL ELE	none
CITY-STATE	Williamsburg, Va. 23011	SVC DRAIN AREA acres	17.5	2-YR OUTFLOW cfs	6.09
CURRENT OWNER	Stonehouse Limited Liability			10-YR OUTFLOW cfs	15.14
OWNER ADDRESS	P.O. Box 759			REC DRAWING	Yes
OWNER ADDRESS 2		SERVICE AREA DESCRI	SF Lots, Roads and Golf Course		
CITY-STATE-ZIP CODE	Toano, Va. 23168	IMPERV AREA acres	3.67	CONSTR CERTI	Yes
OWNER PHONE		RECV STREAM	UT of Bird Swamp WC		
MAINT AGREEMENT	Yes	EXT DET-WQ-CTRL	Yes	LAST INSP DATE	8/27/2001
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	0.35	INTERNAL RATING	2
		CHAN PROT CTRL	No	MISC/COMMENTS	Basin G.
		CHAN PROT VOL acre-ft	0		
		SW/FLOOD CONTROL	Yes		
		GEOTECH REPORT	No		

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WC039



GPIN 053020001A

STONEHOUSE LIMITED LIAB  
" "

S-V

WC039

ADD: NEAR WEST 2924  
CATHARLEAF  
LOT 7 BLOCK B