3. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 42BB AND 42DA WERE USED FOR THIS PROJECT.

4. PROPOSED WATER MAIN WITHIN R/W IS PUBLIC, EXTENDING TO EXISTING MAIN WITHIN SNOWDEN RIVER PARKWAY, WATER IS SERVED THROUGH AN EXISTING PUBLIC WATER MAIN (C-315-W&S) LOCATED ON SNOWDEN RIVER PKWY.

ALL PROPOSED SEWER IS 8", CONNECTING TO 10" SEWER. PROPOSED 8" SEWER IS SERVED THROUGH AND EXISTING PUBLIC SEWER MAIN (C-315-W&S) LOCATED ON SNOWDEN RIVER PKWY.

6. THIS PROJECT UTILIZES ENVIRONMENTAL SITE DESIGN FOR ALL SWM PRACTICES. ALL SWM DEVICES WILL BE PRIVATELY OWNED AND MAINTAINED.

7. EXISTING UTILITIES ARE BASED UPON FIELD RUN SURVEY PERFORMED BY MORRIS AND RITCHIE ASSOCIATES, INC. DATED (01/17/2012).

8. THERE IS NO FLOODPLAIN ON THIS SITE.

9. THERE ARE NO STREAMS, WETLANDS OR STEEP SLOPES ON THIS SITE.

10. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP DATED (08/15/2012).

11. NO NOISE STUDY REQUIRED FOR THIS PROJECT.

12. GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY JOHN D. HYNES & ASSOC. INC.

13. BOUNDARY INFORMATION IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED BY MORRIS AND RITCHIE ASSOCIATES, INC. DATED DECEMBER, 2011 MDR PLAT NO. 14470 RECORDED

14. THE APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE ANY APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAT/PLAN AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN, REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAT/PLAN AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED—LINE REVISION PLAN PROCESS. THEREFORE THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

### **DESIGN NARRATIVE**

THE PROPERTY (3.81 ACRES) IS LOCATED IN AN EXISTING DEVELOPED AREA (3.81 ACRES OF IMPERVIOUS), WHERE MANY OF THE NATURAL RESOURCES THAT WOULD EXIST ON UNDEVELOPED ARE NO LONGER PRESENT ON SITE. FLOWS FROM THE SITE DISCHARGE INTO AN EXISTING STORM DRAIN SYSTEM, SWALES, AND EXISTING STORMWATER MANAGEMENT POND OFFSITE TO THE SOUTH WEST. THE NATURAL DRAINAGE PATTERNS ON THE SITE WILL CULMINATE TO ONE DISTINCTIVE OUTFALL WITH CONCENTRATED FLOWS OF STORM DRAINS, SWALES, IMPERVIOUS AREAS. AND DRAINAGE CHANNEL. EVERY EFFORT WAS MADE TO CONSERVE AND ENHANCE THE DRAINAGE PATTERNS FROM PRE TO POST CONDITION.

ESD STORMWATER REQUIREMENTS AND ACHIEVEMENT THE STORM WATER MANAGEMENT REQUIREMENT FOR THIS 3.81 ACRE SITE AND 3.96 ACRE LIMIT OF DISTURBANCE IS MET THROUGH THE IMPLEMENTATION OF ESD TO THE MEP. THE EXISTING SITE IMPERVIOUS IS GREATER THAN 40%. THEREFORE, THE PROJECT IS SUBJECT TO REDEVELOPMENT REQUIREMENTS. THE TARGET RAINFALL AMOUNT FOR WATER QUALITY TREATMENT OF A REDEVELOPMENT PROJECT WITH NO INCREASE IN IMPERVIOUS AREA IS A PE OF 1.0 INCH. THE REQUIRED ESDV OF 3,904 CF, AND A REQUIRED FILTER (AF) OF 2,101 S.F. IS ACHIEVED BY USING THE MICRO-SCALE PRACTICE OF MICRO-BIORETENTION (M-6).

PROPOSED STORMWATER MANAGEMENT PRACTICES WITHIN THE LIMIT OF DISTURBANCE WILL USE THE MICRO-SCALE PRACTICE OF MICRO-BIORETENTION (M-6). ALL THE MICRO-BIORETENTION (M-6) FACILITIES WILL HAVE OVERFLOW INLETS TO CONVEY PEAK FLOWS TO THE SITE OUTFALL AT A NON-EROSIVE VELOCITY. THE ESD MICRO-SCALE PRACTICES ARE DESIGNED TO MEET THE STORM WATER MANAGEMENT REQUIREMENT OF ESD TO THE MEP.

CONSTRUCTION ON SITE WILL BE DONE TO MINIMIZE THE EFFECT OF SEDIMENT EROSION ON THE SITE. THE BUILDINGS AND PARKING AREAS WILL BE CONSTRUCTED, WITH PERIMETER SEDIMENT AND EROSION CONTROL MEASURES. INLET PROTECTION WILL PROTECT THE EXISTING STORM DRAIN SYSTEM FROM BEING FILLED WITH FINE SOIL PARTICLES.

### **BENCHMARKS**

N 168065.2671 E 413199.7103 NAD 83 (ADJ 07) AND NAVD 88 ELEV. 93.1532

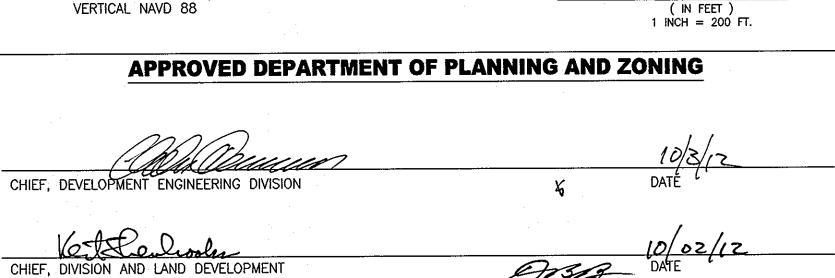
BEING A STAMPED BRASS OR ALUMINUM DISC SET ON TOP OF A 3 FOOT DEEP COLUMN OF CONCRETE. IN THE ISLAND OF THE PARKING LOT FOR LAKE ELKHORN. APPROX. 37.8' SE OF THE FIRE HYDRANT CLOSE TO BROKEN LAND PARKWAY. APPROX. 21.3' NE OF THE SEWER MANHOLE IN THE GRASS AREA BEHIND THE PARKING.

N 167110.0171 E 548260.1144 NAD 83 (ADJ 07) NAVD 88

ELEV. 91.1287

BEING A STAMPED BRASS OR ALUMINUM DISC SET ON TOP OF A 3 FOOT DEEP COLUMN OF CONCRETE. IN THE NW MEDIAN OF THE INTERSECTION OF BROKEN LAND PKWY AND MD RTE 32. APPROX 75' SW FROM THE ONBOUND RAMP TO MD RTE 32 AND APPROX 5.7' SW FROM

THE EDGE OF BROKEN LAND PKWY. DESIGN & DRAWING BASED ON MARYLAND COORDINATE SYSTEM: HORIZONTAL NAD 83/91



# ROYAL FARMS 9585 SNOWDEN RIVER PARKWAY

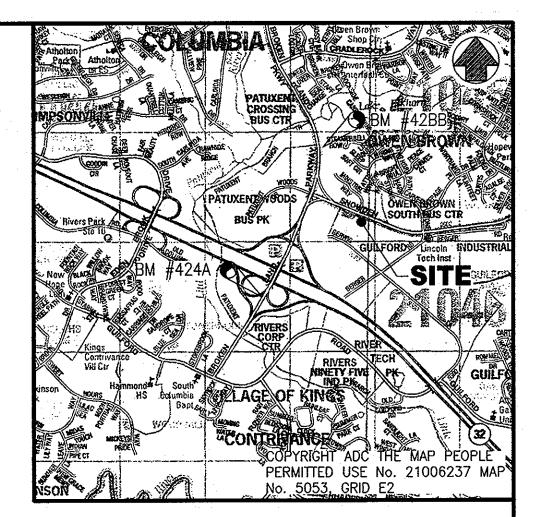
ENVIRONMENTAL CONCEPT PLAN HOWARD COUNTY, MARYLAND

### SHEET INDEX

1. COVER SHEET

2. EX. FEATURES & NATURAL RESOURCES MAP

3. DEVELOPMENT CONCEPT PLAN



### **VICINITY MAP**

PUBLIC/PUBLIC

42 / 375

3.25 Ac.

0.00 Ac.

1"=2.000'

### SITE ANALYSIS DATA CHART

3.81 ACRES 1. TOTAL PROJECT AREA 3.81 ACRES 2. AREA OF PLAN SUBMISSION 3.96 ACRES 3. LIMIT OF DISTURBANCE 4. PRESENT ZONING

CONVENIENCE STORE, GAS STA. & CAR WASH 5. PROPOSED USE 3,500 SF CONV. STORE, 1,407 SF CARWASH 6. PROPOSED FLOOR SPACE 7. TOTAL PARKING SPACES REQUIRED TO BE DETERMINED AT SOP STAGE. 8. PARKING SPACES PROVIDED F69-26; SDP 71-70; F01-51; FDP 55(16/118)

9. DPZ FILE REFERENCES 10. SANITARY SEWER / WATER SERVICE 11. TAX MAP/ PARCEL NO. 12. ELECTION DISTRICT

0.00 Ac. 13. EX. STEEP SLOPES >15% 14. EX. IMPERVIOUS AREA (ON-SITE) 16. EX. GREEN OPEN AREA 0.85 Ac. 17. PROP. GREEN OPEN AREA 1.79 Ac. 18. PROPOSED IMPERVIOUS AREA 2.62 Ac. 19. EXISTING FOREST ON-SITE 0.00 Ac.

20. ERODIBLE SOILS ON-SITE (GuB)

21. EXISTING WETLANDS AND BUFFER AREA

22. EXISTING FLOODPLAIN & BUFFER AREA

ADDRESS CHART STREET ADDRESS LOT / PARCEL # 9585 SNOWDEN RIVER PARKWAY 22 / 375

### PERMIT INFORMATION CHART

SUBDIVISION NAME EGU SUB, RSB 6A & 9A			PARCEL 375			
PLAT # 14470	L / F 05258 / 0100	GRID 9	ZONING NT	TAX MAP NO. 42	ELECT. DIST.	CENSUS TRACT 6067.03

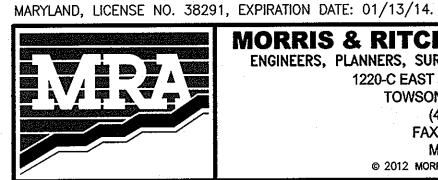
### CERTIFICATION OF APPLICANT

I HEREBY CERTIFY THAT THE INFORMATION SUPPLIED HEREWITH IS CORRECT AND COMPLETE AND AUTHORIZE SUCH PERIODIC ON-SITE INSPECTIONS BY THE DEPARTMENT OF PLANNING AND ZONING AND THE SUBDIVISION REVIEW COMMITTEE AGENCIES AS MAY BE NECESSARY TO REVIEW THIS APPLICATION AND ANY WAIVER PETITIONS FILED IN CONNECTION HEREWITH AND TO ENFORCE THE SUBDIVISION REGULATIONS AND OTHER APPLICABLE LAWS. THIS RIGHT-OF-ENTRY SHALL CONTINUE UNTIL ALL ADMINISTRATIVE APPEALS PERTAINING TO THE PROPERTY HAVE BEEN EXHAUSTED. \*IF THE APPLICANT IS THE OWNER'S AGENT, WRITTEN DOCUMENTATION FROM THE PROPERTY OWNER GRANTING THAT AUTHORITY IS REQUIRED.

E. Edward Zinke 7/16/12 ezinke 90 201.

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



### MORRIS & RITCHIE ASSOCIATES, INC. ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

1220-C EAST JOPPA ROAD, SUITE 505 TOWSON, MARYLAND 21286 (410) 821-1690 FAX: (410) 821-1748 MRAGTA.COM © 2012 MORRIS & RITCHIE ASSOCIATES, INC.



**ROYAL FARMS STORE #186** 9585 SNOWDEN RIVER PARKWAY ENVIRONMENTAL CONCEPT PLAN

**COVER SHEET** ECP-13-002 TAX MAP 42 ~ PARCEL 375 ~ LOT 22 TAX ASSESSMENT DISTRICT 3 ~ ZONING NT

EMPLOYMENT CENTER INDUSTRIAL 3RD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

DATE	REVISIONS		JOB NO.: 17297
			SCALE: AS SHOWN
		***************************************	DATE: 09.24.2012
			DRAWN BY: MJS
			DESIGN BY: MGC
			REVIEW BY: PRC
			SHEET: 1 OF 3

# SITE N 548,500

## **LOCATION PLAN**

EX. 2 FOOT CONTOURS EX. CURB AND GUTTER EX. CONCRETE WALK EX. C/L ROAD

EX. ADJACENT PROPERTY LINE

EX. RIGHT OF WAY

EX. SANITARY LINE

EX. UTILITY EASEMENT

**LEGEND** 

100 200

EX. STORM DRAIN LINE

EX. FIBER OPTIC CABLE EX. URD PRIMARY SEG 3 PHASE ex. Verizon line

EX. OVER HEAD UTILITIES EX. LIGHT POLE

EX. U/G UTILITY HANDBOX

EX. UTILITY POLE

EX. SIGN

EX. BOLLARD

.....

EX. TREE LINE EX. SOILS LINE EX. BUILDING/STRUCTURE

PRIOR TO BEGINNING WORK.

EX. EVERGREEN TREE

EX. DECIDUOUS TREE

SAVANNAH. GA 31411-2936 ATTN: E. EDWARD ZINKE DEVELOPER TWO FARMS INC.

NOTE;
THE CORRECTNESS OR COMPLETENESS OF EXISTING INFORMATION SHOWN ON THE

DRAWINGS IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY

METHODS APPROVED BY THE OWNER'S REPRESENTATIVE, AS REQUIRED TO VERIFY

EXACT LOCATIONS AND DEPTHS WITHIN THE LIMIT OF DISTURBANCE. ALL

DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND THAT

VERIFIED IN THE FIELD SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE

THE LOCATION OF UTILITIES AND UNDERGROUND FACILITIES, BY TEST PITS OR OTHER

3611 ROLAND AVENUE BALTIMORE, MARYLAND 21211 ATTN .: MR. JEFF BAINBRIDGE PHONE: (410)-456-1467

OWNER

TSC SNOWDEN RIVER, L.L.C.

C/O RZZ LLC

12 GRAY HERON RETREAT

CHIEF, DIVISION AND LAND DEVELOPMENT

SHEET:

2 OF 3

PHONE: (410)-456-1467

PROTECTION WILL PROTECT THE EXISTING STORM DRAIN SYSTEM FROM BEING FILLED WITH FINE SOIL PARTICLES.

PHONE: (410)-456-1467

B - 10%

CHIEF, DIVISION AND LAND DEVELOPMENT

SHEET:

-3 OF 3