# SITE DEVELOPMENT PLAN
# CORRIDOR ONE
## 1st ELECTION DISTRICT
## HOWARD COUNTY, MARYLAND

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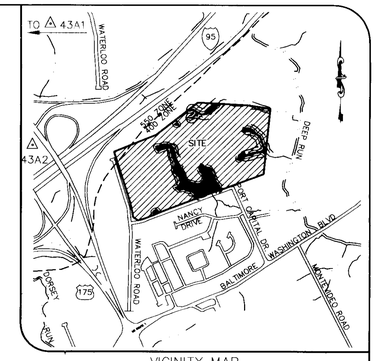
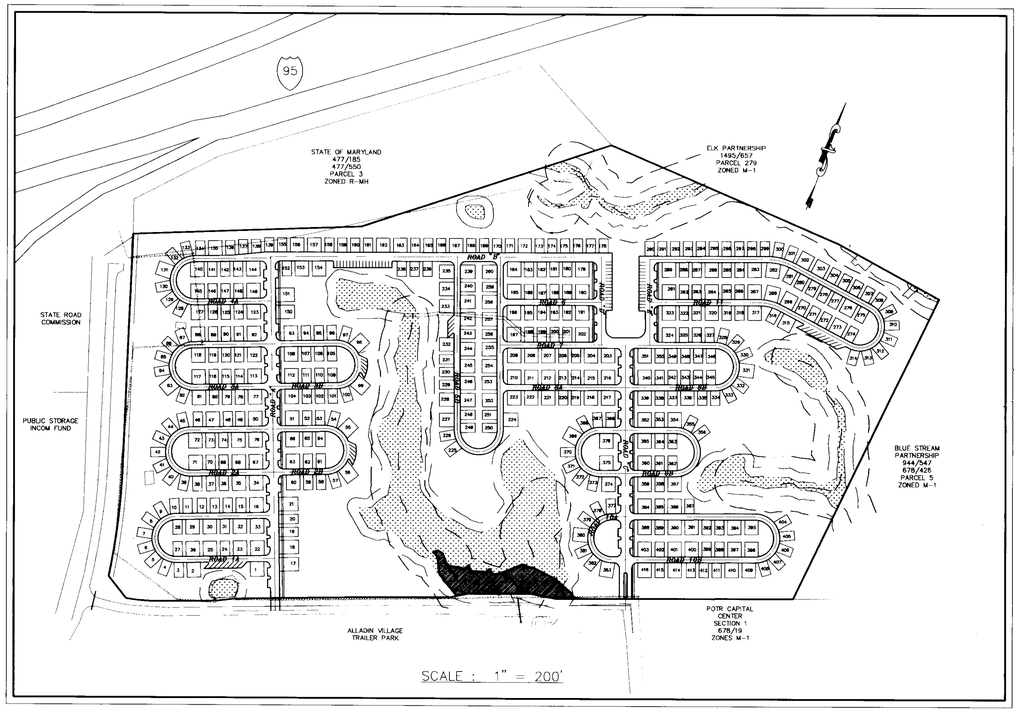



VICINITY MAP
SCALE : 1" = 1000'




SCALE : 1" = 200'

### *GENERAL NOTES:*

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
3. ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. BOUNDARY AND TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN & MONUMENTED SURVEY ON OR ABOUT MARCH 1995 BY MILDENBERG, BOENDER & ASSOCIATES, INC.
5. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 43A1 AND 43A2.
6. WATER AND SEWER TO BE PUBLIC. CONNECTION TO CONTRACT NO. 2645-D-W&S.
7. FLOODPLAIN STUDY PREPARED BY MILDENBERG, BOENDER & ASSOCIATES, INC. ON JUNE 1995.
8. WETLAND DELINEATION PERFORMED BY RIEMER, MUEGGE & ASSOCIATES, INC. ON JUNE 1995.
9. TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, INC. ON JUNE 15, 1995.
10. STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
11. EXISTING UTILITIES SHOWN HEREON ARE BASED ON A HOWARD COUNTY AS-BUILT SURVEY.
12. DPZ REFERENCE NUMBERS:
    S-94-39 APPROVED ON JULY 22, 1994.
    WP-96-32 APPROVED ON NOVEMBER 6, 1995
13. WET PONDS ARE USED FOR STORMWATER MANAGEMENT CONTROL.
14. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:

| | |
|---|---|
| MISS UTILITY | 1-800-257-7777 |
| C&P TELEPHONE COMPANY | 725-9976 |
| HOWARD COUNTY BUREAU OF UTILITIES | 313-4900 |
| AT&T CABLE LOCATION DIVISION | 393-3533 |
| BALTIMORE GAS & ELECTRIC COMPANY | 685-0123 |
| STATE HIGHWAY ADMINISTRATION | 531-5533 |
| HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION | 313-1880 |

15. REFUSE COLLECTION WILL BE BY PRIVATE CONTRACTORS.
16. NO DISTURBANCE OF WETLAND OR FLOODPLAIN AREAS IS PROPOSED.
17. STRUCTURAL DESIGN OF THE NOISE WALL WILL BE PROVIDED AT THE BUILDING PERMIT STAGE BY SMITH-MIDLAND CORPORATION (703-439-3266) OR EQUIVALENT MANUFACTURER.
18. ALL RETAINING WALLS INDICATED ON THIS PLAN ARE LESS THAN 3'-0" HIGH AND SHALL BE "KEYSTONE" WALLS OR EQUIVALENT.
19. TREE PROTECTION MEASURES AND DETAILS ARE INDICATED ON APPROVED LANDSCAPE PLAN.
20. THE FOREST CONSERVATION EASEMENTS SHOWN HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE, FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
21. WAIVER TO DESIGN MANUAL SECTIONS RELATING TO POND'S GEOMETRY AND MAINTENANCE REQUIREMENTS HAS BEEN APPROVER ON NOVEMBER 29, 1995
22. WAIVER WP-96-32 TO SECTIONS 16.116(a)(i) AND 16.116 (a)(2)(ii) WHICH ALLOWS THE GRADING OF STREAM AND WETLANDS BUFFERS WAS APPROVED ON NOVEMBER 6, 1995.
23. WETLAND BUFFER DISTURBANCE PERMIT IS IN PROCESS. TRACKING NO. 19966I322

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCES CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS**

### *SITE TABULATION*

| | |
|---|---|
| TOTAL AREA OF SUBMISSION | 52.61 ACRES |
| EXISTING ZONING | R-MH |
| PROPOSED USE | MOBILE HOME PARK |
| AREA OF 100 YEAR FLOODPLAIN | 0.55 ACRES |
| AREA OF 25% OR GREATER SLOPES | 0.04 ACRES |
| NET AREA | 52.02 ACRES |
| DENSITY PERMITTED AT 8 DU PER NET AREA | 416 UNITS |
| DENSITY PROPOSED | 416 UNITS |
| PARKING SPACES REQUIRED AT 2 PER UNIT | 832 SPACES |
| PARKING SPACES PROVIDED | 911 SPACES |
| OPEN SPACE REQUIRED - 25% OF GROSS AREA | 13.15 Ac. |
| OPEN SPACE PROVIDED | 24.00 Ac.± |

### *PERMIT INFORMATION BLOCK*

| SUBDIVISION NAME | | | SECTION/AREA | | PARCEL |
|---|---|---|---|---|---|
| CORRIDOR ONE | | | | | 4, 347, & P/O 3 |
| LIBER/FOLIO | BLOCK(S) | ZONING | TAX MAP NO. | ELECITON DISTRICT | CENSUS TRACT |
| 2804/40 | 3 | R-MH | 43 | 1st | 6012 |
| WATER CODE | | | SEWER CODE | | |

### *ADDRESS CHART*

| LOT NUMBER | STREET ADDRESS |
|---|---|
| PARCELS: 4, 347 & P/O 3 | 7600 PORT CAPITAL DRIVE (FOR GRADING PERMIT ONLY) |

| | |
|---|---|
| 94044 | JAN 96 |
| SJD | M.P. |
| AS SHOWN | J.H. |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
TITLE SHEET

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5321 Wash. (410) 997-0298 Fax.



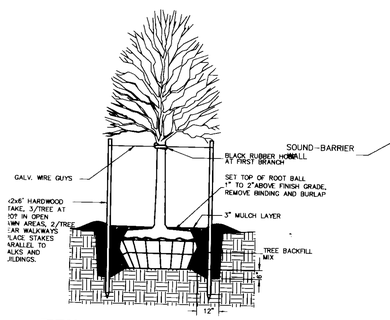
SDP-96-20

94044-TDWG

## CONSERVATION LEGEND

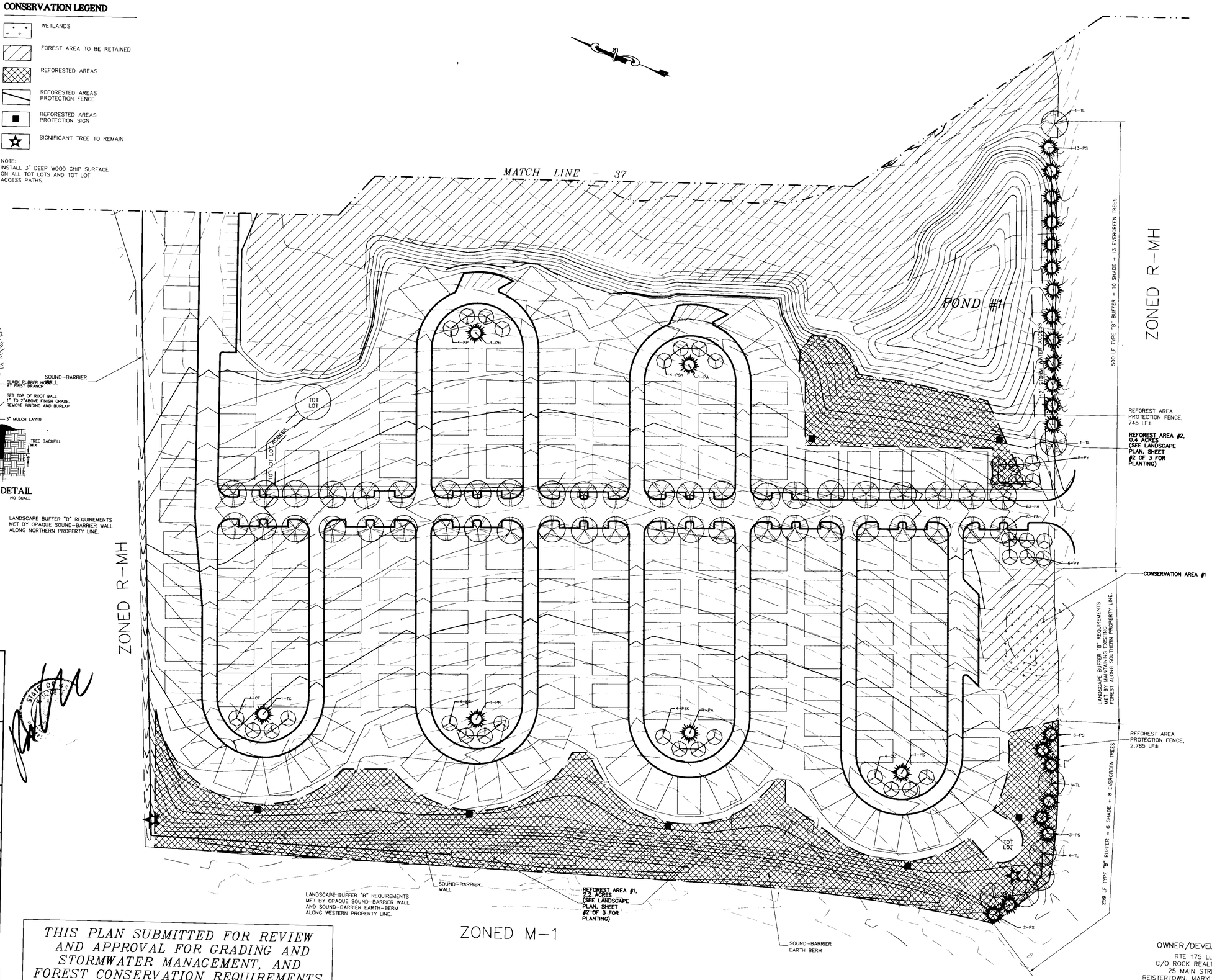
- WETLANDS
- FOREST AREA TO BE RETAINED
- REFORESTED AREAS
- REFORESTED AREAS PROTECTION FENCE
- REFORESTED AREAS PROTECTION SIGN
- SIGNIFICANT TREE TO REMAIN

NOTE:
INSTALL 3" DEEP WOOD CHIP SURFACE ON ALL TOT LOTS AND TOT LOT ACCESS PATHS.




TYPICAL TREE PLANTING DETAIL
NO SCALE

LANDSCAPE BUFFER "B" REQUIREMENTS MET BY OPAQUE SOUND-BARRIER WALL ALONG NORTHERN PROPERTY LINE.




OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
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THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING PRIOR TO THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96
PRINTED NAME OF DEVELOPER: GRAYNE NEWSOME

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A SYSTEM WHICH IS DESIGNED IN ACCORDANCE WITH MY TECHNICAL KNOWLEDGE OF THE SITE AND CONDITIONS, AND WAS PREPARED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96
PRINTED NAME OF ENGINEER: RICHARD J. KUBAT

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA - NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/18/96

44-L3

| project | date |
|---|---|
| 94044 | JAN '96 |
| illustration | engineering |
| MP/RAS | - |
| scale | approval |
| 1"=50' | RJH |

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, BLOCK 3, PARCELS 3,4,347, & P/O 3
CORRIDOR ONE
HOWARD COUNTY, MARYLAND
1ST ELECTION DISTRICT
LANDSCAPE PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Bal. (301) 621-5521 Wash. (410) 997-0298 Fax.



SDP-96-20

## CONSERVATION LEGEND

- WETLANDS
- FOREST AREA TO BE RETAINED
- REFORESTED AREAS
- REFORESTED AREAS PROTECTION FENCE
- REFOREST AREA PROTECTION SIGN
- SIGNIFICANT TREE TO REMAIN

NOTE:
INSTALL 3" DEEP WOOD CHIP SURFACE ON ALL TOT LOTS AND TOT LOT ACCESS PATHS.

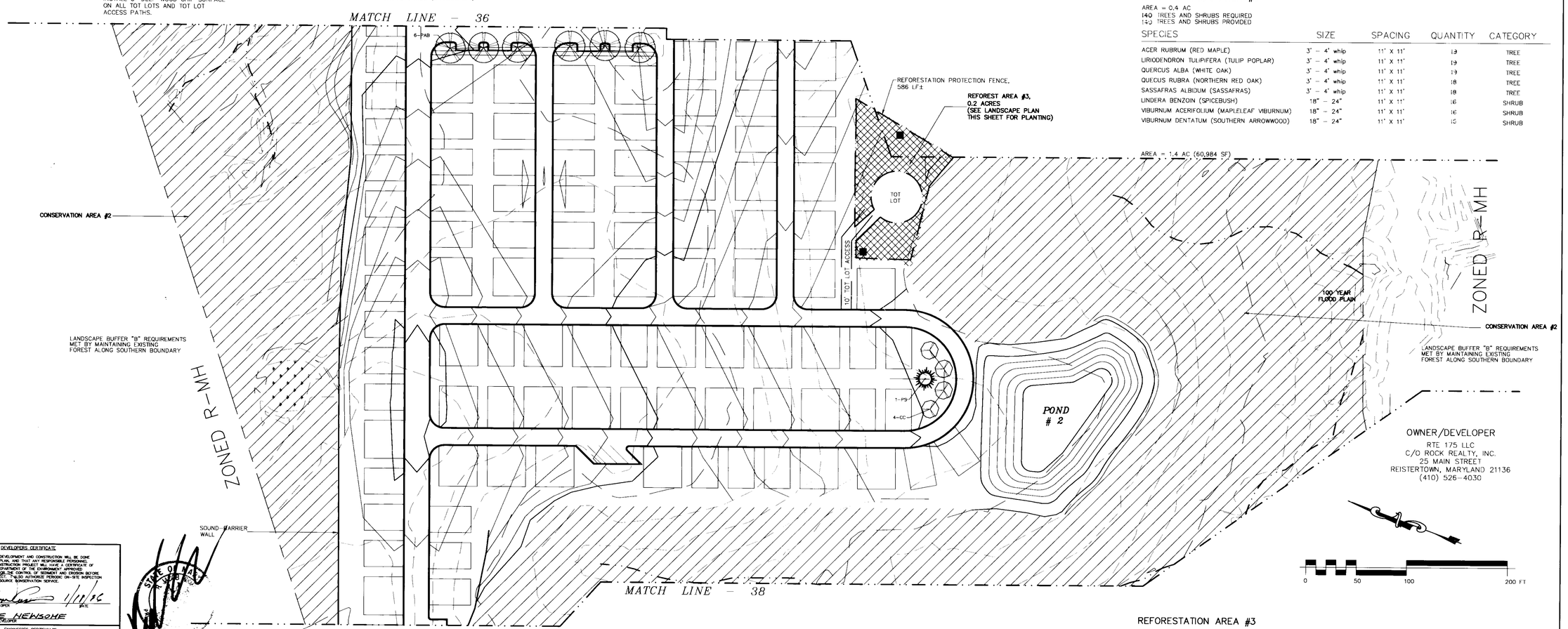
## SOIL PREPARATION AND STABILIZATION FOR REFORESTATION IN DISTURBED AREAS

1. PLACE 12" OF TOPSOIL FROM ON-SITE TOPSOIL STOCKPILE OVER AREAS TO BE REFORESTED. BRING TOPSOIL TO FINAL GRADES INDICATED. PLANT TREES AND SHRUBS. SEED WITH GROUND COVER MIX AND MULCH.
2. ALTERNATE TO TOPSOIL:
   PLACE 3" OF COMPOSTED ORGANIC MATTER OVER AREAS TO BE REFORESTED. TILL COMPOSTED ORGANIC MATTER INTO SOIL TO A DEPTH OF 12". BRING SOIL TO FINAL GRADES INDICATED. PLANT TREES AND SHRUBS. SEED WITH GROUNDCOVER MIX AND MULCH.
3. AFTER INSTALLATION OF PLANTING AND FINAL GRADING IS COMPLETE INSTALL "FIELD AND AND FOREST MIX" GROUND COVER SEED MIX (BY SYLVA NATIVE NURSERY & SEED COMPANY, NEW FREEDOM, PA, (717) 227-0486) AT A RATE OF 40 LBS/ACRE. IF INSTALLED WITH HYDROSEED, INCLUDE MULCH WITH HYDROSEED MIX. IF BROADCAST DRY, MULCH WITH STRAW TO A DEPTH OF 1/2" AND TACK IN PLACE WITH AN APPROVED TACKIFIER.
   "FIELD AND FOREST MIX" INCLUDES:
   RED CLOVER (TRIFOLIUM PRATENSE)
   ORCHARD GRASS (DACTYLIS GLOMERATUS)
   DEER TONGUE (PANICUM CLANDESTINUM)
   LITTLE BLUESTEM (ANDROPOGON SCOPARIUS)
   SWITCH GRASS (PANICUM VIRGATUM)
   BROME GRASS (BROMUS SP.)

## REFORESTATION NOTES:

1. HOWARD COUNTY REFORESTATION REQUIREMENTS –
   350 HARDWOOD SEEDLINGS OR WHIPS/ACRE WITH "TREE SHELTERS," 11' x 11' SPACING
2. PLACE SPECIES IN RANDOM ASSORTMENT IN LAYOUT.
3. TREES SHOULD NOT BE PLANTED IN A STRICT GRID PATTERN. ADJUST SPACING SO THAT REFORESTATION PLANTING APPEARS NATURAL.

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*




## REFORESTATION PLANT LIST

### REFORESTATION AREA #1

AREA = 2.0 AC
700 TREES AND SHRUBS REQUIRED
700 TREES AND SHRUBS PROVIDED

| SPECIES | SIZE | SPACING | QUANTITY | CATEGORY |
|---|---|---|---|---|
| ACER RUBRUM (RED MAPLE) | 3' – 4' whip | 11' X 11' | 9[illegible] | TREE |
| LIRIODENDRON TULIPIFERA (TULIP POPLAR) | 3' – 4' whip | 11' X 11' | [illegible] | TREE |
| QUERCUS ALBA (WHITE OAK) | 3' – 4' whip | 11' X 11' | [illegible] | TREE |
| QUECUS RUBRA (NORTHERN RED OAK) | 3' – 4' whip | 11' X 11' | [illegible] | TREE |
| SASSAFRAS ALBIDUM (SASSAFRAS) | 3' – 4' whip | 11' X 11' | [illegible] | TREE |
| LINDERA BENZOIN (SPICEBUSH) | 18" – 24" | 11' X 11' | [illegible]7 | SHRUB |
| VIBURNUM ACERIFOLIUM (MAPLELEAF VIBURNUM) | 18" – 24" | 11' X 11' | [illegible] | SHRUB |
| VIBURNUM DENTATUM (SOUTHERN ARROWWOOD) | 18" – 24" | 11' X 11' | 78 | SHRUB |

### REFORESTATION AREA #2

AREA = 0.4 AC
140 TREES AND SHRUBS REQUIRED
140 TREES AND SHRUBS PROVIDED

| SPECIES | SIZE | SPACING | QUANTITY | CATEGORY |
|---|---|---|---|---|
| ACER RUBRUM (RED MAPLE) | 3' – 4' whip | 11' X 11' | 19 | TREE |
| LIRIODENDRON TULIPIFERA (TULIP POPLAR) | 3' – 4' whip | 11' X 11' | 19 | TREE |
| QUERCUS ALBA (WHITE OAK) | 3' – 4' whip | 11' X 11' | 19 | TREE |
| QUECUS RUBRA (NORTHERN RED OAK) | 3' – 4' whip | 11' X 11' | 18 | TREE |
| SASSAFRAS ALBIDUM (SASSAFRAS) | 3' – 4' whip | 11' X 11' | 18 | TREE |
| LINDERA BENZOIN (SPICEBUSH) | 18" – 24" | 11' X 11' | 16 | SHRUB |
| VIBURNUM ACERIFOLIUM (MAPLELEAF VIBURNUM) | 18" – 24" | 11' X 11' | 16 | SHRUB |
| VIBURNUM DENTATUM (SOUTHERN ARROWWOOD) | 18" – 24" | 11' X 11' | 15 | SHRUB |

### REFORESTATION AREA #3

AREA = 0.2 AC
70 TREES AND SHRUBS REQUIRED
70 TREES AND SHRUBS PROVIDED

| SPECIES | SIZE | SPACING | QUANTITY | CATEGORY |
|---|---|---|---|---|
| ACER RUBRUM (RED MAPLE) | 3' – 4' whip | 11' X 11' | 9 | TREE |
| LIRIODENDRON TULIPIFERA (TULIP POPLAR) | 3' – 4' whip | 11' X 11' | 9 | TREE |
| QUERCUS ALBA (WHITE OAK) | 3' – 4' whip | 11' X 11' | 9 | TREE |
| QUECUS RUBRA (NORTHERN RED OAK) | 3' – 4' whip | 11' X 11' | 10 | TREE |
| SASSAFRAS ALBIDUM (SASSAFRAS) | 3' – 4' whip | 11' X 11' | 10 | TREE |
| LINDERA BENZOIN (SPICEBUSH) | 18" – 24" | 11' X 11' | 8 | SHRUB |
| VIBURNUM ACERIFOLIUM (MAPLELEAF VIBURNUM) | 18" – 24" | 11' X 11' | 8 | SHRUB |
| VIBURNUM DENTATUM (SOUTHERN ARROWWOOD) | 18" – 24" | 11' X 11' | 7 | SHRUB |

### REFORESTATION AREA #4

AREA = 0.3 AC
105 TREES AND SHRUBS REQUIRED
105 TREES AND SHRUBS PROVIDED

| SPECIES | SIZE | SPACING | QUANTITY | CATEGORY |
|---|---|---|---|---|
| ACER RUBRUM (RED MAPLE) | 3' – 4' whip | 11' X 11' | 14 | TREE |
| LIRIODENDRON TULIPIFERA (TULIP POPLAR) | 3' – 4' whip | 11' X 11' | 14 | TREE |
| QUERCUS ALBA (WHITE OAK) | 3' – 4' whip | 11' X 11' | 14 | TREE |
| QUECUS RUBRA (NORTHERN RED OAK) | 3' – 4' whip | 11' X 11' | 14 | TREE |
| SASSAFRAS ALBIDUM (SASSAFRAS) | 3' – 4' whip | 11' X 11' | 14 | TREE |
| LINDERA BENZOIN (SPICEBUSH) | 18" – 24" | 11' X 11' | 12 | SHRUB |
| VIBURNUM ACERIFOLIUM (MAPLELEAF VIBURNUM) | 18" – 24" | 11' X 11' | 12 | SHRUB |
| VIBURNUM DENTATUM (SOUTHERN ARROWWOOD) | 18" – 24" | 11' X 11' | 12 | SHRUB |

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE STABILIZATION OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/12/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THE PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A SYSTEM WHICH IS ADEQUATE ON SITE PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IS DESIGNED IN ACCORDANCE WITH THE MARYLAND STATE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

RICHARD J. KIRWAN
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT TO MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

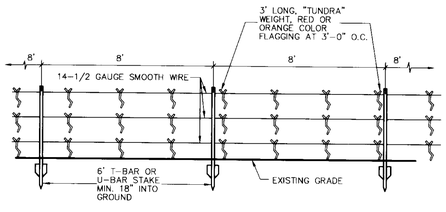
APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

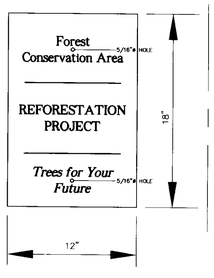
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

44-1/2

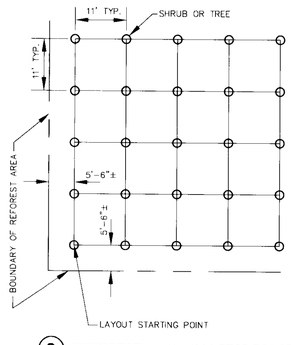



1 REFORESTATION AREA PROTECTION FENCE DETAIL NO SCALE




NOTE: SIGNS ARE 0.093" ALUMINUM W/WHITE BACKGROUND AND BLACK LETTERS MOUNTED ON 6' 4x4 P.T. POST BURIED 24" IN GROUND.

2 REFORESTATION AREA PROTECTION SIGN DETAIL NO SCALE




2 REFORESTATION SPACING DIAGRAM NO SCALE

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| MP/RAS | |
| scale | approval |
| 1"=50' | RJH |

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, BLOCK 3, PARCELS 3,4,347, & P/O 3
# CORRIDOR ONE
HOWARD COUNTY, MARYLAND
1ST ELECTION DISTRICT

## LANDSCAPE PLAN


MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.

## CONSERVATION LEGEND

- WETLANDS
- FOREST AREA TO BE RETAINED
- REFORESTED AREAS
- REFORESTED AREAS PROTECTION FENCE
- REFORESTED AREAS PROTECTION SIGN
- SIGNIFICANT TREE TO REMAIN

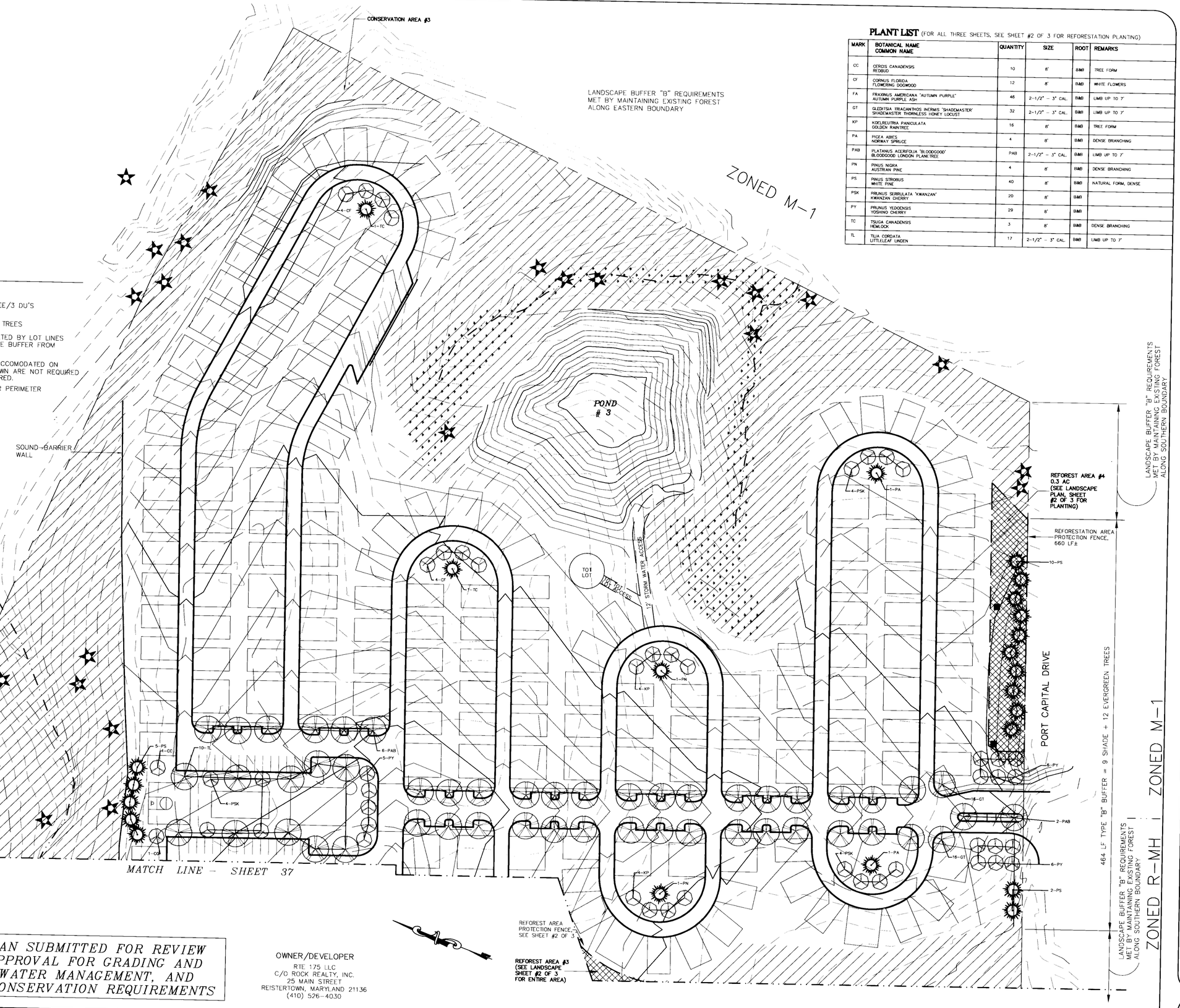
NOTE:
INSTALL 3" DEEP WOOD CHIP SURFACE ON ALL TOT LOTS AND TOT LOT ACCESS PATHS.

## SDP LANDSCAPE CALCULATIONS

1. 416 DU'S PROPOSED, ZONED R-MH
2. REQUIRED INTERNAL LANDSCAPE = 1TREE/3 DU'S
   416/3 = 139 TREES REQUIRED
3. INTERNAL LANDSCAPE PROVIDED = 139 TREES
4. STORM WATER PONDS ARE NOT SEPARATED BY LOT LINES THEREFORE DO NOT REQUIRE LANDSCAPE BUFFER FROM ADJACENT LAND USE.
5. INTERNAL PARKING REQUIRMENTS ARE ACCOMODATED ON INDIVIDUAL LOTS. PARKING AREAS SHOWN ARE NOT REQUIRED THEREFORE LANDSCAPING IS NOT REQUIRED.
6. SEE NOTES ALONG PROPERTY LINES FOR PERIMETER LANDSCAPE REQUIREMENTS.

## PLANT LIST (FOR ALL THREE SHEETS, SEE SHEET #2 OF 3 FOR REFORESTATION PLANTING)

| MARK | BOTANICAL NAME / COMMON NAME | QUANTITY | SIZE | ROOT | REMARKS |
|---|---|---|---|---|---|
| CC | CERCIS CANADENSIS<br>REDBUD | 10 | 8' | B&B | TREE FORM |
| CF | CORNUS FLORIDA<br>FLOWERING DOGWOOD | 12 | 8' | B&B | WHITE FLOWERS |
| FA | FRAXINUS AMERICANA 'AUTUMN PURPLE'<br>AUTUMN PURPLE ASH | 46 | 2-1/2" - 3" CAL. | B&B | LIMB UP TO 7' |
| GT | GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'<br>SHADEMASTER THORNLESS HONEY LOCUST | 32 | 2-1/2" - 3" CAL. | B&B | LIMB UP TO 7' |
| KP | KOELREUTRIA PANICULATA<br>GOLDEN RAINTREE | 16 | 8' | B&B | TREE FORM |
| PA | PICEA ABIES<br>NORWAY SPRUCE | 4 | 8' | B&B | DENSE BRANCHING |
| PAB | PLATANUS ACERIFOLIA 'BLOODGOOD'<br>BLOODGOOD LONDON PLANETREE | PAB | 2-1/2" - 3" CAL. | B&B | LIMB UP TO 7' |
| PN | PINUS NIGRA<br>AUSTRIAN PINE | 4 | 8' | B&B | DENSE BRANCHING |
| PS | PINUS STROBUS<br>WHITE PINE | 40 | 8' | B&B | NATURAL FORM, DENSE |
| PSK | PRUNUS SERRULATA 'KWANZAN'<br>KWANZAN CHERRY | 20 | 8' | B&B | |
| PY | PRUNUS YEDOENSIS<br>YOSHINO CHERRY | 29 | 8' | B&B | |
| TC | TSUGA CANADENSIS<br>HEMLOCK | 3 | 8' | B&B | DENSE BRANCHING |
| TL | TILIA CORDATA<br>LITTLELEAF LINDEN | 17 | 2-1/2" - 3" CAL. | B&B | LIMB UP TO 7' |




### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THE OPERATIONS OF ALL CONTRACTORS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/11/96

C. EDWARD HENSOMB
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A WORK PLAN THAT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. FRED HIKMAT
PRINTED NAME OF ENGINEER

I CERTIFY THAT THIS PLAN WAS REVIEWED FOR THE SOIL CONSERVATION DISTRICT STANDARDS AND TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA - NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF - DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF - DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

44-L1

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| MP/RAS | - |
| scale | approval |
| 1"=50' | RJH |

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, BLOCK 3, PARCELS 3,4,347, & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY, MARYLAND
LANDSCAPE PLAN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SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE HIKMAT
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/16/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

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HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

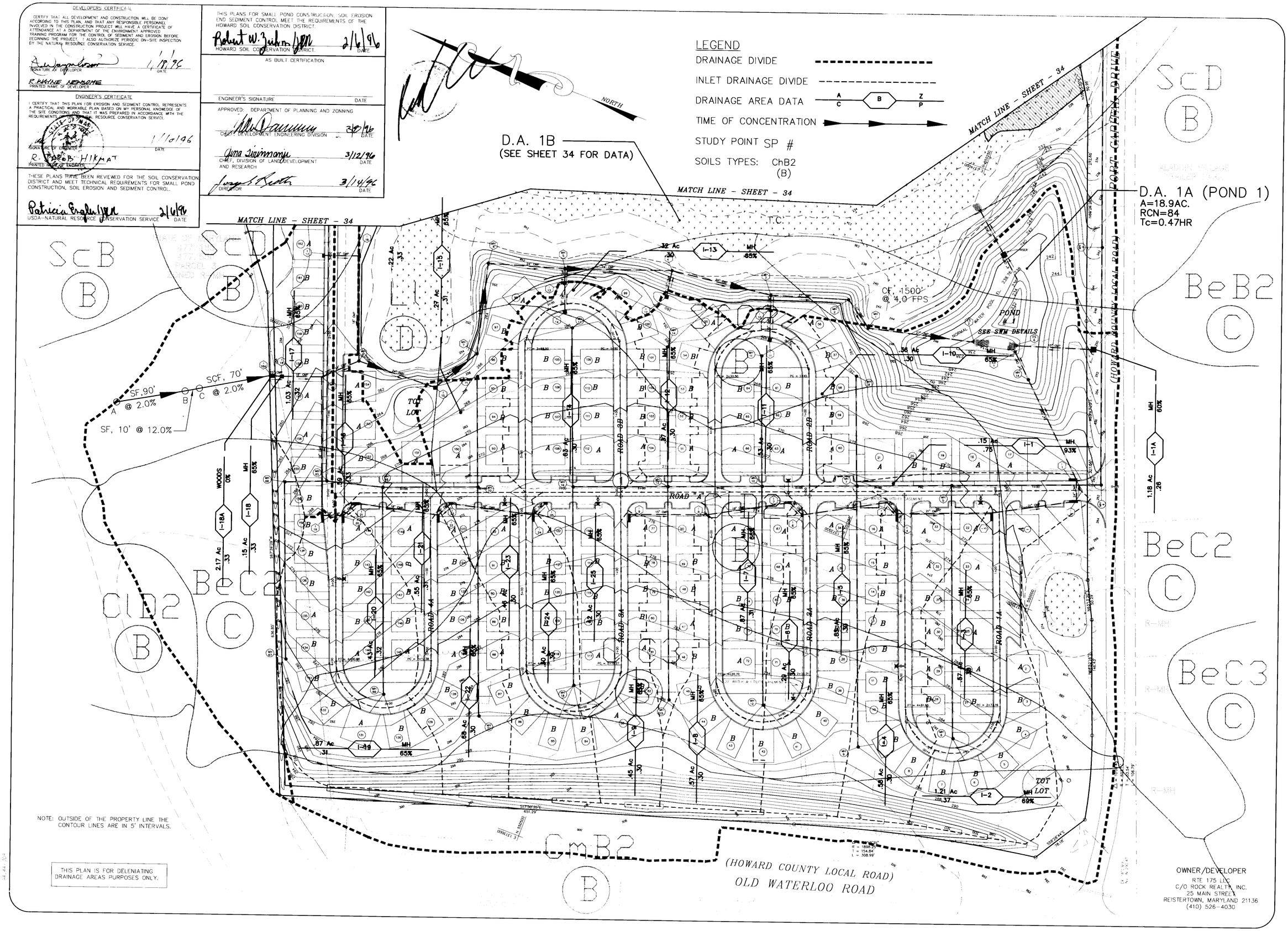
ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/12/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

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| 94044 | JAN 96 | |
| M.P./MAT | M.P. | |
| 1"=50' | J.H. | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
DRAINAGE AREA MAP


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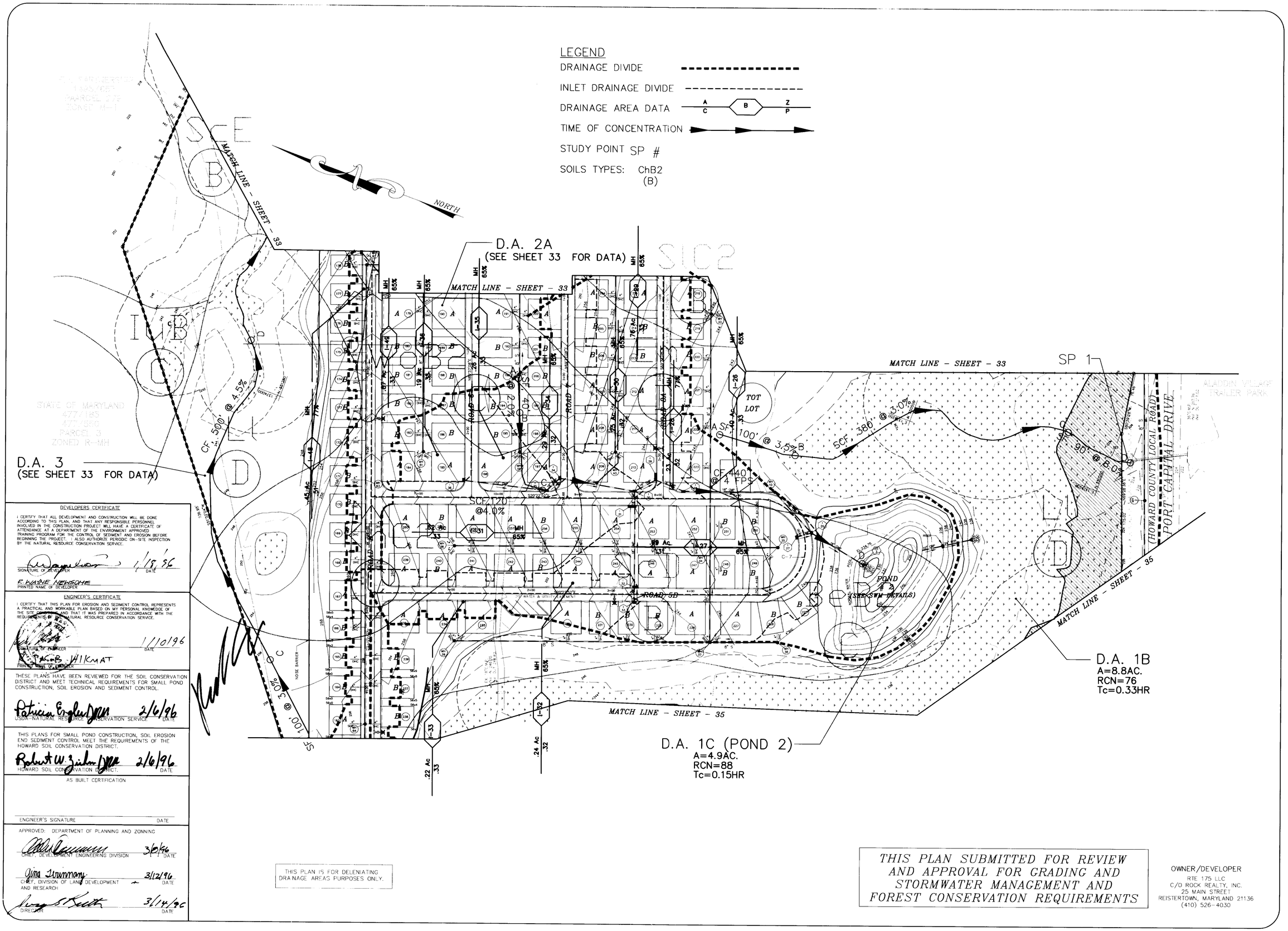


DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE [illegible] AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

JACOB WILKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

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HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN IS FOR DELENIATING DRANAGE AREAS PURPOSES ONLY.

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
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(410) 526-4030

| | | |
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| 94044 | JAN.96 | |
| | M.P./MAT | M.P. |
| 1"=50' | J.H. | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
DRAINAGE AREA MAP

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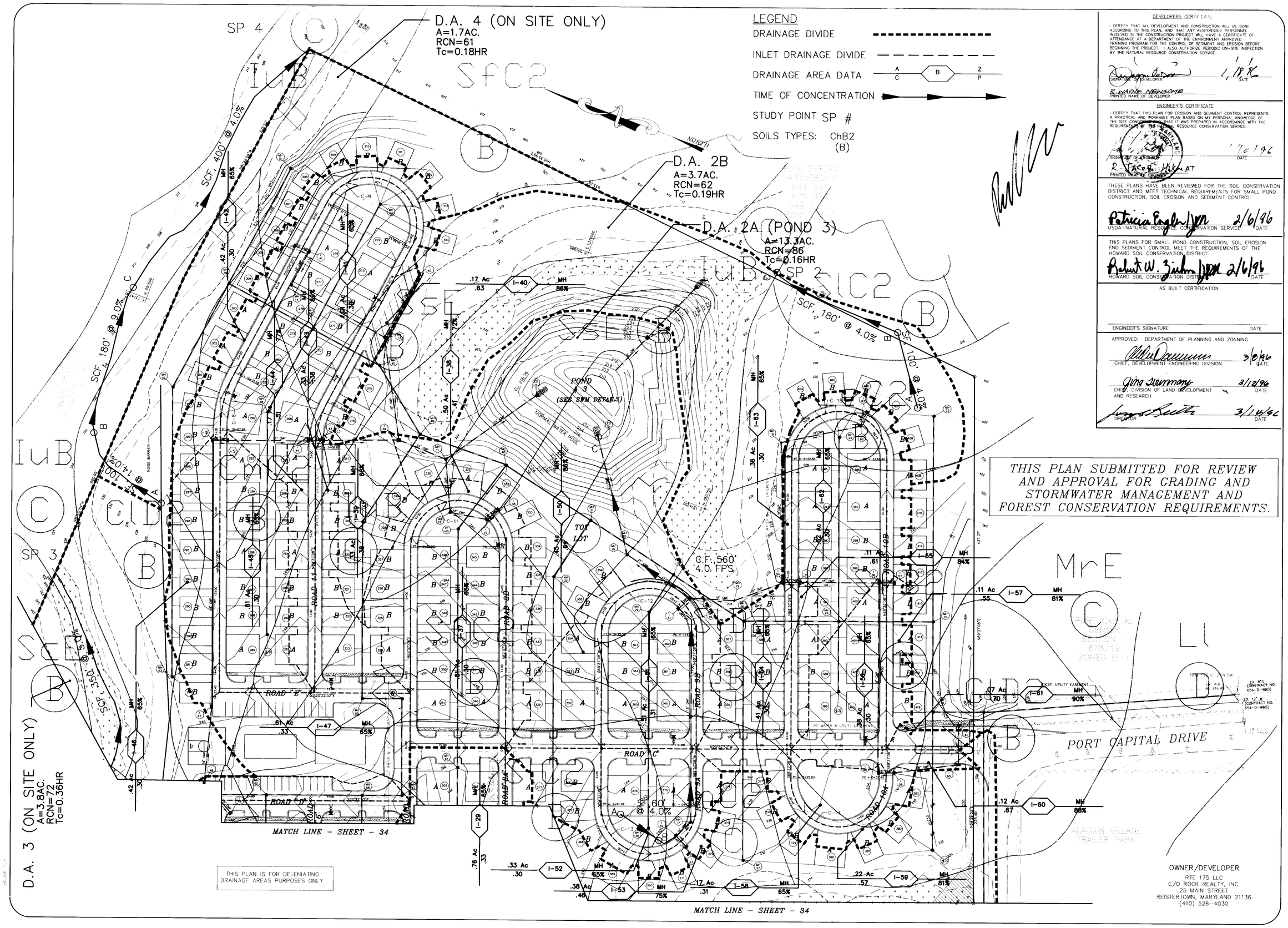
SDP-96-20

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SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/16/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler/JPR 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zirkus/JPR 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Gina Swinmany 3/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE

DIRECTOR — DATE 3/14/96

94044 JAN 96
M.P./MAT M.P.
1"=50' J.H.

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CORRIDOR ONE
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DRAINAGE AREA MAP

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SDP-96-20

# POND SPECIFICATIONS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-378. ALL REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.

## SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED TO THE PLANS. TREES, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE. FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUALITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

## EARTH FILL

MATERIAL– THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT– AREAS ON WHICH FILL IS TO BE SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

COMPACTION– THE MOVEMENT OF AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSE BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN+– 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99

CUT OFF TRENCH– THE CUFF OFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

## STRUCTURE BACKFILL

BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

## PIPE CONDUITS

ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

CORRUGATED METAL PIPE– ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE:
1. MATERIALS– (STEEL PIPE)– THIS PIPE AND ITS APPURTENANCE SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A WITH WATERTIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. STEEL PIPES WITH POLYMERIC COATINGS SHALL HAVE A MINIMUM COATING THICKNESS OF 0.01 INCH (10 MIL) ON BOTH SIDES OF THE PIPE. THE FOLLOWING COATINGS OR AN APPROVED EQUAL MAY BE USED: NEXON, PLASTI-COTE, BLAC-KLAD, AND BETH-CU-LOY. COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M-245 AND M-246.

MATERIALS– (ALUMINUM COATED STEEL PIPE)– THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-274 WITH WATERTIGHT COUPLING BANDS OR FLANGES. ANY ALUMINUM COATING DAMAGED OF OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND.?

MATERIALS–(ALUMINUM PIPE)– THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATERTIGHT COUPLINGS BANDS OR FLANGES. ALUMINUM SURFACES THAT ARE TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER. HOT DIP GALVANIZED BOLTS MAY BE USED FOR CONNECTIONS. THE PH OF THE SURROUNDING SOILS SHALL BE BETWEEN 4 AND 9.

2. COUPLING BANDS, ANTI-SEEP COLLARS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AS THE PIPE. METALS MUST BE INSULATED FROM DISSIMILAR MATERIALS WITH USE RUBBER OR PLASTIC INSULATING MATERIALS AT LEAST 24 MILS IN THICKNESS.

3. CONNECTIONS– ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL. ANTI-STEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT. DIMPLE BANDS ARE NOT CONSIDERED TO BE WATERTIGHT.

ALL CONNECTIONS SHALL USE A RUBBER OF NEOPRENE GASKET WHEN JOINING PIPE SECTIONS. THE END OF EACH PIPE SHALL BE-ROLLED AND ADEQUATE NUMBER OF CORRUGATIONS TO ACCOMMODATE THE BAND WIDTH. THE FOLLOWING TYPE CONNECTIONS ARE ACCEPTABLE FOR PIPE LESS THAN 24" IN DIAMETER: FLANGES ON BOTH ENDS OF THE PIPE, A 12" WIDE STANDARD LAP TYPE BAND WITH 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET; AND A 12" WIDE HUGGER TYPE BAND WITH O-RING GASKETS HAVING MINIMUM DIAMETER OF 1/2" GREATER THAN THE CORRUGATION DEPTH. PIPES 24: IN DIAMETER AND LARGER SHALL BE CONNECTED BY A 24" LONG ANNULAR CORRUGATED BAND USING RODS AND LUGS. A 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET WILL BE INSTALLED ON THE END OF EACH PIPE FOR A TOTAL OF 24"

HELICALLY CORRUGATED PIPE SHALL HAVE EITHER CONTINUOUSLY WELDED SEAMS OR HAVE LOCK SEAMS WITH INTERNAL CAULKING OR A NEOPRENE BEAD.

4. BEDDING– THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

5. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."

6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

REINFORCED CONCRETE PIPE– ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR REINFORCED CONCRETE PIPE:

1. MATERIALS-REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM DESIGNATION C-361.

2. BEDDING– ALL REINFORCED CONCRETE PIPE CONDUITS SHALL BE LAID IN A CONCRETE BEDDING FOR THEIR ENTIRE LENGTH. THIS BEDDING SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 10% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 3 INCHES, OR AS SHOWN ON THE DRAWINGS.

3. LAYING PIPE– BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM. JOINTS SHALL BE MADE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL. AFTER THE JOINTS ARE SEALED FOR THE ENTIRE LINE, THE BEDDING SHALL BE PLACED SO THAT ALL SPACES UNDER THE PIPE ARE FILLED. CARE SHALL BE EXERCISED TO PREVENT ANY DEVIATION FROM THE ORIGINAL LINE AND GRADE OF THE PIPE. THE FIRST JOINT MUST BE LOCATED WITHIN 2 FEET FROM THE RISER.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

POLYVINYL CHLORIDE (PVC) PIPE– ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE (PVC) PIPE:

1. MATERIALS-PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.

2. JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATERTIGHT.

3. BEDDING– THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

## CONCRETE

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

## ROCK RIPRAP

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN ONE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE REPLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 919.12.?

## CARE OF WATER DURING CONSTRUCTION

ALL WORK ON THE PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF THE REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL AND CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

## STABILIZATION

ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

## EROSION AND SEDIMENT CONTROL

CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.

## OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND THE HEIRS SUCCESSORS OR ASSIGNS SHAL_ BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

## MAINTENANCE REQUIREMENTS

A. REMOVAL OF SILT WHEN ACCUMULATION EXCEED SIX (6) INCHES IN FOREBAY (IF APPLICABLE).

B. REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AS NECESSARY.

C. VEGETATION GROWING ON THE EMBANKMENT TOP AND FACES OF THE FOREBAY OF BASIN IS NOT ALLOWED EXCEED 18 INCHES IN HEIGHT AT ANY TIME.

D. ANNUAL INSPECTION AND REPAIR OF THE STRUCTURE.

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/17/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDTIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engle — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
POND SPECIFICATIONS

| project | date | drawing | engineering | scale | approved |
|---|---|---|---|---|---|
| 94044 | JAN.96 | M.P. | J.H. | AS SHOWN | J.H. |

## HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

Page 1 of 1

RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-2 — Boring # B-4
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 241; Date Started 5-17-95; Foreman D. Deckman; Inspector; Date Completed 5-17-95

| SOIL DESCRIPTION (Color, Moisture, Density, Size, Proportion) | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown to red, moist, medium stiff to hard clayey silt, little sand (Silt Loam - MH) | | | I | 2-2-4 | 1 | 11" | 5" Topsoil; Groundwater encountered at 12.5' while drilling; Caved at 12.6' |
| | | 5 | I | 12-15-20 | 2 | 16" | |
| | | 10 | L | 6-11-7 | 3 | 0" | |
| Blue green moist medium stiff clayey silt (decomposed rock) (Clay - CL) | 12.5 | | I | 3-7-12 | 4 | 18" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 12.4 FT; AFTER 24 Hrs. 9.8 FT; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-2 — Boring # B-5
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 236; Date Started 5-17-95; Foreman D. Deckman; Inspector; Date Completed 5-17-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown, tan, red, moist, very soft to stiff fine sandy silt, trace to little clay (Silt Loam - ML) | | | I | 1-WOH-1 | 1 | 5" | 10" Topsoil; Groundwater encountered at 9.0' while drilling; Caved at 10.1'; Bag samples from 0.0' to 5.0' |
| | | 5 | I | 5-5-10 | 2 | 14" | |
| Red, gray and green moist hard sandy silt with some clay (decomposed rock) (Silt Loam - ML) | 8.0 | 10 | I | 8-15-21 | 3 | 18" | |
| | | | I | 10-13-20 | 4 | 15" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 4.3 FT; AFTER 24 Hrs. 4.2 FT; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One — Boring # B-6
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 235; Date Started 5-17-95; Foreman D. Deckman; Inspector; Date Completed 5-17-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Red, brown, moist, medium stiff to hard, clayey silt, little sand and fine gravel (Silt Loam - MH) | | | I | 1-3-3 | 1 | 8" | 3" Topsoil; Groundwater encountered at 10.0' while drilling |
| | | 5 | L | 11-13-15 | 2 | 0" | |
| Gray/tan, very moist stiff, silty clay, trace sand (decomposed rock) (Clay - CL) | 8.0 | 10 | I | 2-3-7 | 3 | 15" | |
| Red orange, very moist medium dense, sandy silt, trace clay (decomposed rock) (Silt Loam - ML) | 12.0 | | I | 4-5-10 | 4 | 14" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 9.8 FT; AFTER 24 Hrs. 4.1 FT; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-3 — Boring # B-7
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 224; Date Started 5-23-95; Foreman D. Deckman; Inspector; Date Completed 5-23-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown, moist, very loose, sand and gravel, some silt | | | I | 1-1-2 | 1 | 5" | 3" Topsoil; No groundwater encountered while drilling; Caved at 11.2' at completion |
| Red, tan, moist, medium dense, silt little fine sand and clay (possible decomposed rock) (Clay - CL) | 2.0 | 5 | I | 6-8-11 | 2 | 14" | |
| Dark gray green, moist, very dense silty fine sand and weathered rock fragments (decomposed rock) (Sandy Loam - SM) | 8.0 | 10 | I | 10-17-33 | 3 | 15" | |
| | | | I | 44-51/4" | 4 | 8" | |
| Bottom of Hole at 14.4' Spoon refusal | 14.4 | 15 | | | | | *Caved at 3.2' |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION Dry FT; AFTER 24 Hrs. Dry FT.*; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-3 — Boring # B-8
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 234; Date Started 5-23-95; Foreman D. Deckman; Inspector; Date Completed 5-23-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown, moist, very loose sand, little silt (Sandy Loam - SM) | | | I | 1-1-1 | 1 | 2" | 3" Topsoil; Groundwater encountered at 13.0' while drilling; Caved at 12.9'; Bag samples from 0.0' to 5.0' |
| Tan, moist, medium dense, fine sand, some gravel, trace silt; S-3 with little clay (Sandy Loam - SM) | 2.0 | 5 | I | 5-6-7 | 2 | 13" | |
| | | 10 | I | 8-10-14 | 3 | 4" | |
| Olive, tan, moist, medium stiff silty clay (decomposed rock) (Clay - CL) | 13.0 | | I | 2-5-6 | 4 | 15" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | Caved at 10.9' |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 11.7 FT.; AFTER 24 Hrs. 9.1 FT.*; AFTER ___ FT.

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-3 — Boring # B-9
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 233; Date Started 5-23-95; Foreman D. Deckman; Inspector; Date Completed 5-23-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown, moist, very loose sand, trace silt (Loamy Sand - SM) | | | I | 1-1-2 | 1 | 2" | 7" Topsoil and humus; Groundwater encountered at 12.0' while drilling; Caved at 10.9' at completion |
| Tan, moist, medium dense to very dense fine to coarse sand and gravel, little to some clay and silt (Sandy Loam - SM) | 2.0 | 5 | I | 15-25-28 | 2 | 5" | |
| | | 10 | I | 11-13-14 | 3 | 6" | |
| Green, tan, moist, medium stiff, silty clay, trace sand (possible decomposed rock) (Clay - CL) | 12.5 | | I | 4-6-9 | 4 | 16" | |
| Bottom of Holoe at 15.0' | 15.0 | 15 | | | | | *Caved at 7.9' |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION Dry FT.; AFTER 24 Hrs. Dry FT.*; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-2 — Boring # B-10
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 240; Date Started 5-23-95; Foreman D. Deckman; Inspector; Date Completed 5-23-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Tan, moist, very loose to medium dense fine to medium silty sand, trace clay (Loamy Sand - SM) | | | I | 1-1-2 | 1 | 6" | 3" Topsoil; Groundwater encountered at 8.0' while drilling; Caved at 8.7' at completion; Bag samples from 0.0' to 5.0' |
| | | 5 | I | 10-11-16 | 2 | 15" | |
| | | 10 | I | 7-10-14 | 3 | 12" | |
| | | | I | 11-11-5 | 4 | 10" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 6.4 FT; AFTER 24 Hrs. 6.2 FT; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-2 — Boring # B-11
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 239; Date Started 5-19-95; Foreman D. Deckman; Inspector; Date Completed 5-19-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Tan/orange, moist to very moist loose fine to medium silty sand trace to little clay; S-2 dense, coarse; S-3 with medium to coarse gravel (Loamy Sand - SM) | | | I | 1-4-6 | 1 | 6" | 3" Topsoil; Groundwater encountered at 6.0' while drilling; Caved at 7.3' at completion |
| | | 5 | I | 12-13-18 | 2 | 14" | |
| | | 10 | I | 12-22-26 | 3 | 1" | |
| Gray, moist, stiff silty clay little fine sand (decomposed rock) (Clay - CL) | 12.0 | | I | 3-5-10 | 4 | 13" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 3.7 FT.; AFTER 24 Hrs. 3.5 FT.; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION

Project Name Corridor One SWMP-2 — Boring # B-12
Location Port Capital Drive, Howard County, Maryland — Job # 95151A

SAMPLER: Hammer Wt. 140 Lbs.; Hammer Drop 30 Inches; Pipe Size 2.0 Inches OD; Hole Diameter 8"; Rock Core Dia.; Boring Method HSA

Datum TOPO; Surf. Elev. 238; Date Started 5-23-95; Foreman D. Deckman; Inspector; Date Completed 5-23-95

| SOIL DESCRIPTION | STRA. DEPTH | DEPTH SCALE | CON | SAMPLE BLOWS 6" | NO. | REC. | BORING & SAMPLING NOTES |
|---|---|---|---|---|---|---|---|
| SURFACE | | 0.0 | | | | | |
| Brown to orange, moist to wet, very loose to medium dense fine to medium sand with little clay and silt (Sandy Loam - SM) | | | L | 1-1-2 | 1 | 0" | 2" Topsoil; Groundwater encountered at 7.0' while drilling; Caved at 10.3' at completion |
| | | 5 | I | 6-8-9 | 2 | 11" | |
| | | 10 | I | 2-4-4 | 3 | 16" | |
| Olive, tan, moist, medium stiff silty clay (probable decomposed rock) (Clay - CH) | 12.5 | | I | 3-5-6 | 4 | 14" | |
| Bottom of Hole at 15.0' | 15.0 | 15 | | | | | |
| | | 20 | | | | | |

GROUND WATER DEPTH: AT COMPLETION 5.8 FT; AFTER 24 Hrs. 5.7 FT; AFTER ___ FT

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED. T-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE
SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONT. FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING
STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

94044 | JAN. 96 | M.P. | J.H. | AS SHOWN | J.H.

TAX MAP 43, PARCELS 4, 347 & P/O 3
# CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SOIL BORINGS AND SPECIFICATIONS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



SDP-96-20

## SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
3. CONSTRUCT SUPER SILT FENCES AS SHOWN.
4. CONSTRUCT TREE PROTECTION FENCE AS INDICATED ON THE FOREST CONSERVATION PLAN.
5. CONSTRUCT STORMWATER MANAGEMENT PONDS TO GRADES INDICATED FOR SEDIMENT CONTROL BASINS.
6. CONSTRUCT "A-1" EARTH DIKE AT POND NO. 1.
7. BRING SITE TO DESIGN GRADES, INSTALL UTILITIES, STORM DRAINAGE AND ROADWAYS.
8. SEDIMENTS SHALL BE REMOVED FROM THE SEDIMENT BASINS WHEN THE CLEANOUT ELEVATIONS HAVE BEEN REACHED.
9. THE ACCUMULATED SEDIMENTS FROM THE BASINS SHALL BE PLACED UP GRADE FROM THE BASINS IN SUCH A MANNER SUCH THAT THE RUNOFF FROM THE PLACEMENT AREA WILL FLOW TO AN APPROVED SEDIMENT CONTROL DEVICE AND NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWN GRADE FROM THE BASIN.
10. WHEN ALL UPSTREAM AREAS OF A SEDIMENT CONTROL DEVICE HAVE BEEN PERMANENTLY STABILIZED, AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE THESE DEVICES AND SEED AND MULCH THE RESULTING DISTURBED AREAS.
11. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO A STORMWATER MANAGEMENT FACILITY HAVE BEEN PERMANENTLY STABILIZED, AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, RECONSTRUCT THAT FACILITY TO THE GRADES AND DIMENSIONS SHOWN FOR STORMWATER MANAGEMENT. SEED AND MULCH REMAINING DISTURBED AREAS.

## HOWARD SOIL CONSERVATION DISTRICT

### PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING , DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
1) PREFERRED – APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING , APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
2) ACCEPTABLE – APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING – FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) – 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) – USE SOD. OPTION (3) – SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE WELL ANCHORED STRAW.

MULCHING – APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE – INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

### TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

## HOWARD SOIL CONSERVATION DISTRICT

### STANDARD SEDIMENT CONTROL NOTES

1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF NAY CONSTRUCTION, (313-1855).
2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7) SITE ANALYSIS:

| | | |
|---|---|---|
| TOTAL AREA OF SITE: | 52.6 | ACRES |
| AREA DISTURBED: | 39.3 | ACRES |
| AREA TO BE ROOFED OR PAVED | 11.1 | ACRES |
| AREA TO BE VEGITATIVELY STABILIZED | 28.2 | ACRES |
| TOTAL CUT | 70,000 | CU. YDS. |
| TOTAL FILL | 70,000 | CU. YDS. |
| TOTAL WASTE/BORROW AREA LOCATION | – | |

8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

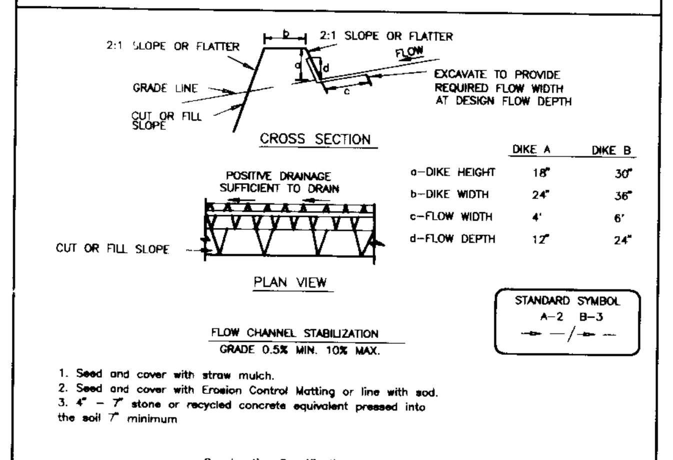
SIGNATURE ________ DATE ________ PE NO. ________

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ONSITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ONSITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

OPERATION, MAINTENANCE, AND INSPECTION

INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITH USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378). THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

### DETAIL 1 – EARTH DIKE



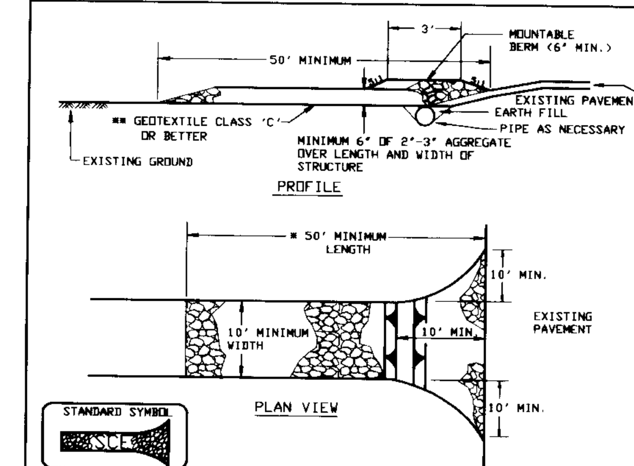

1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or line with sod.
3. 4" – 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
6. Fill shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
8. Inspection and maintenance must be provided periodically and after each rain event.

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE A - 1 - 6 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
|---|---|---|

### DETAIL 24 – STABILIZED CONSTRUCTION ENTRANCE

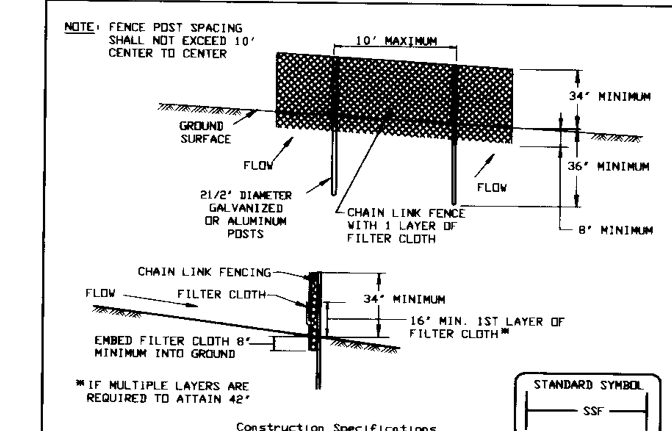



Construction Specification

1. Length – minimum of 50' (*30' for single residence lot).
2. Width – 10' minimum, should be flared at the existing road to provide a turning radius.
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 entrance.
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 slopes 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.

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE F - 17 - 3 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
|---|---|---|

### DETAIL 33 – SUPER SILT FENCE



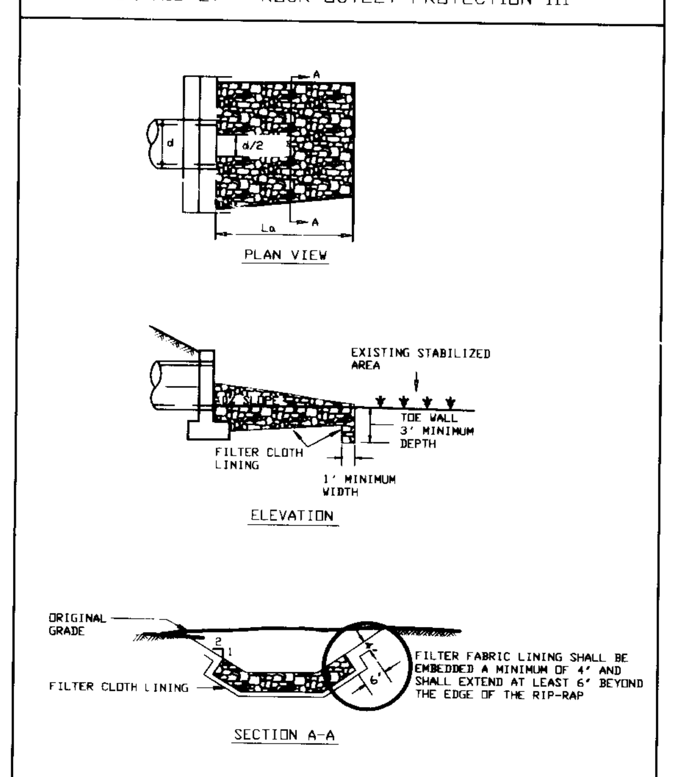

Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and silt buildups removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height.
7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

| | | |
|---|---|---|
| Tensile Strength | 50 lbs/in (min.) | Test: MSMT 509 |
| Tensile Modulus | 20 lbs/in (min.) | Test: MSMT 509 |
| Flow Rate | 0.3 gal/ft²/minute (max.) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 322 |

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE H - 26 - 3 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
|---|---|---|

### DETAIL 27 – ROCK OUTLET PROTECTION III




NOTE: FILTER CLOTH SHALL BE GEOTEXTILE CLASS C

| U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE | PAGE F - 18 - 10 | MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION |
|---|---|---|

DEVELOPERS CERTIFICATE

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[signature] 1/18/96
SIGNATURE OF DEVELOPER DATE

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

[signature] 1/10/96
SIGNATURE OF ENGINEER DATE

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler [signature] 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zieham [signature] 2/6/96
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

[signature] 3/12/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Gina Tirunnanyi 3/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

[signature] 3/14/96
DIRECTOR DATE

44-SEDNO

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date | engineering | drawn by | scale |
|---|---|---|---|---|
| 94044 | JAN.96 | J.H. | M.P. | AS SHOWN J.H. |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT HOWARD COUNTY
SEDIMENT CONTROL NOTES & DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



SDP-96-20

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SIGNATURE OF DEVELOPER — DATE 1/18/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

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SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

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USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

## LEGEND

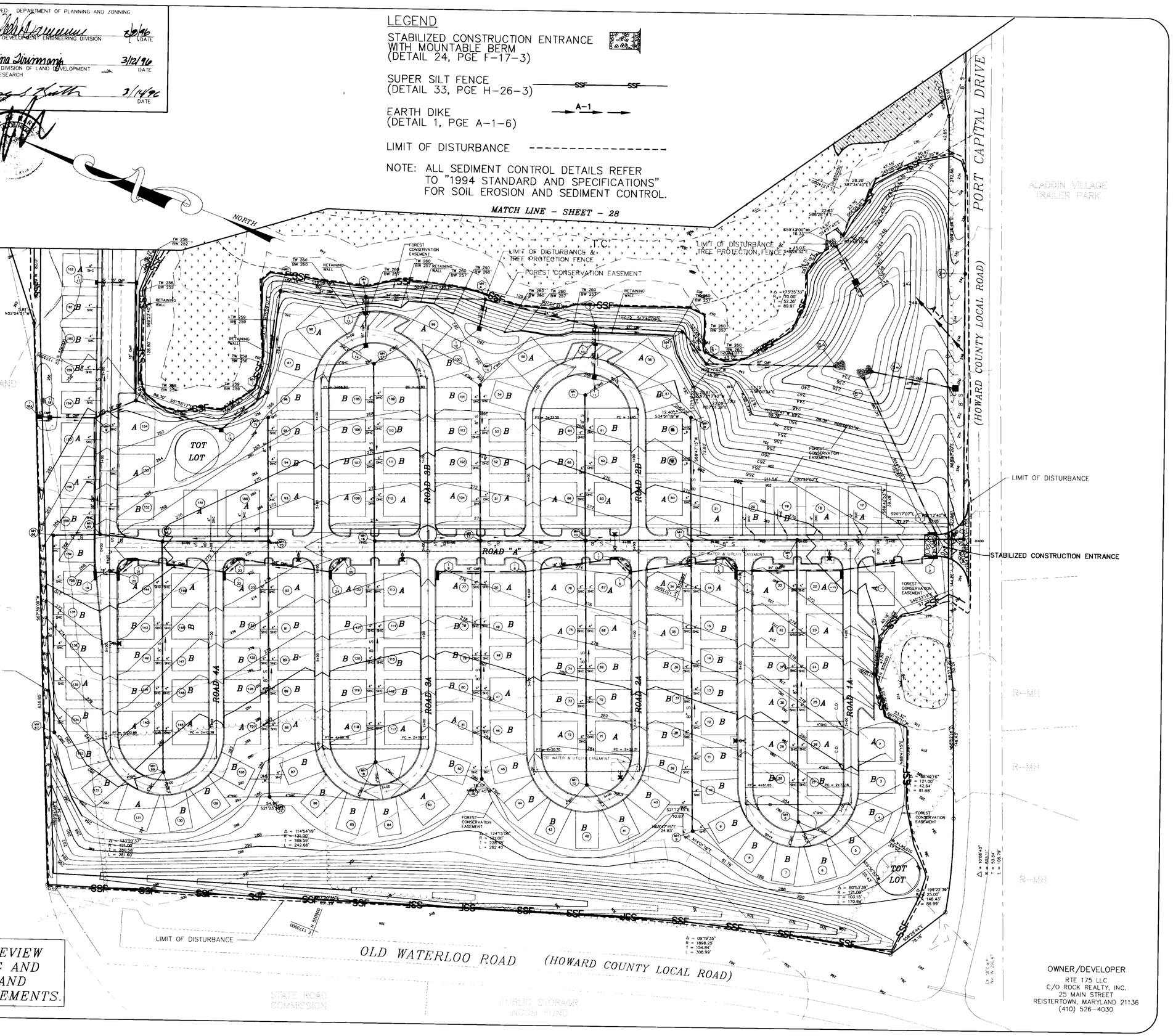
STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM (DETAIL 24, PGE F-17-3)

SUPER SILT FENCE (DETAIL 33, PGE H-26-3) — SSF

EARTH DIKE (DETAIL 1, PGE A-1-6) — A-1

LIMIT OF DISTURBANCE

NOTE: ALL SEDIMENT CONTROL DETAILS REFER TO "1994 STANDARD AND SPECIFICATIONS" FOR SOIL EROSION AND SEDIMENT CONTROL.




NOTE: OUTSIDE OF THE PROPERTY LINE THE CONTOUR LINES ARE IN 5' INTERVALS.

THIS PLAN SUBMITED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT AND FOREST CONSERVATION REQUIREMENTS.

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| DATE | JAN 96 |
| DESIGNED | M.P. |
| DRAWN | M.P./MAT |
| SCALE | 1"=50' |
| CHECKED | J.H. |
| 94044 | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
EROSION & SEDIMENT CONTROL PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20

## LEGEND

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LIMIT OF DISTURBANCE

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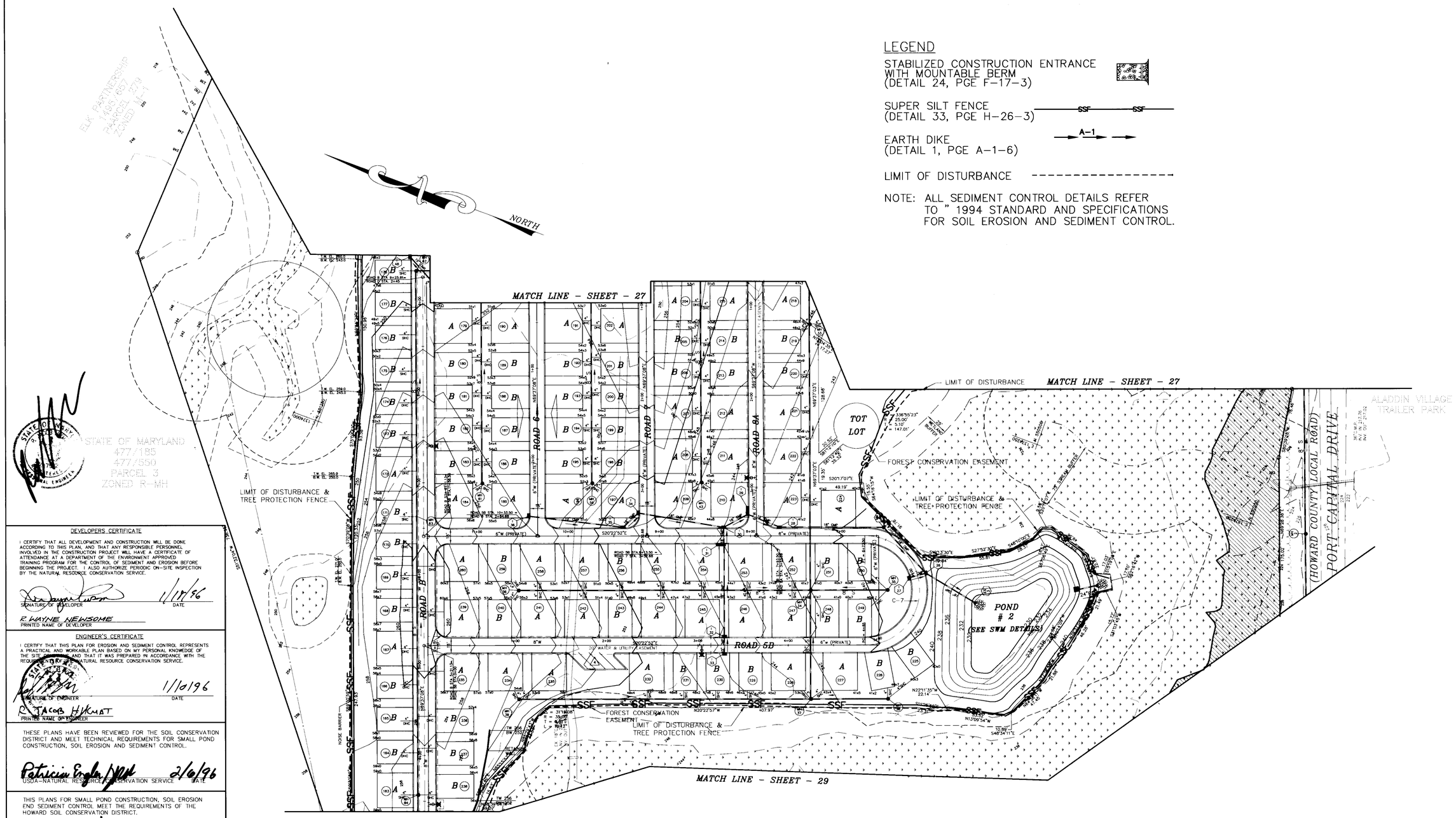



### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/17/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCES CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/18/96

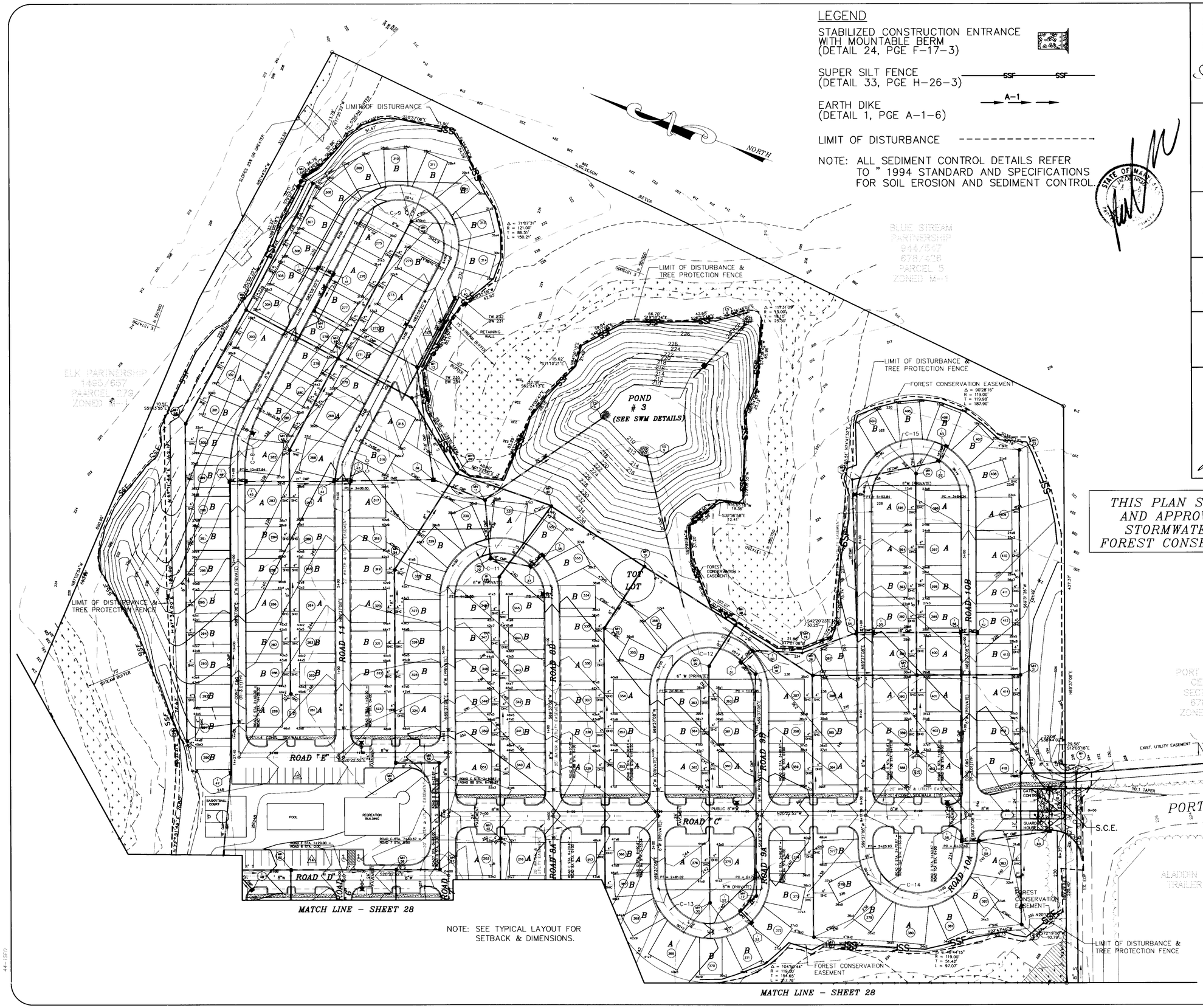
THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| 94044 | JAN 96 |
| M.P./MAT | M.P. |
| 1"=50' | J.H. |

TAX MAP 43, PARCELS 4, 347 & P/O 3
# CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
EROSION & SEDIMENT CONTROL PLAN


MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.




## LEGEND

STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM (DETAIL 24, PGE F-17-3)

SUPER SILT FENCE (DETAIL 33, PGE H-26-3) — SSF

EARTH DIKE (DETAIL 1, PGE A-1-6) — A-1

LIMIT OF DISTURBANCE

NOTE: ALL SEDIMENT CONTROL DETAILS REFER TO " 1994 STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

NOTE: SEE TYPICAL LAYOUT FOR SETBACK & DIMENSIONS.

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zuhn — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Ging Tounniany — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

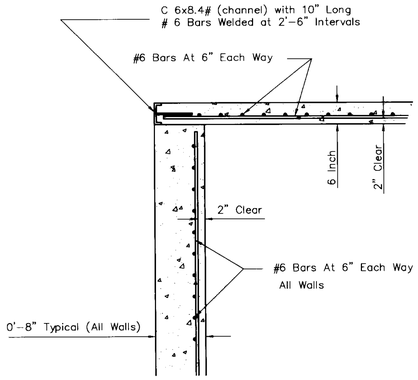
OWNER/DEVELOPER
RTE 175 LIC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | | |
|---|---|---|
| project | 94044 | date JAN 96 |
| drawing | M.P./MAT | engineering M.P. |
| scale | 1"=50' | approved J.H. |

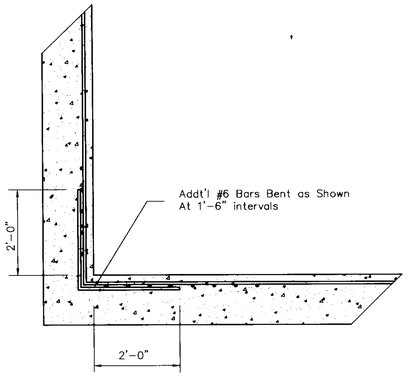
| | | |
|---|---|---|
| 1 | ADD NOISE BERM | 3-9-98 |
| No. | description | date |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
EROSION & SEDIMENT CONTROL PLAN

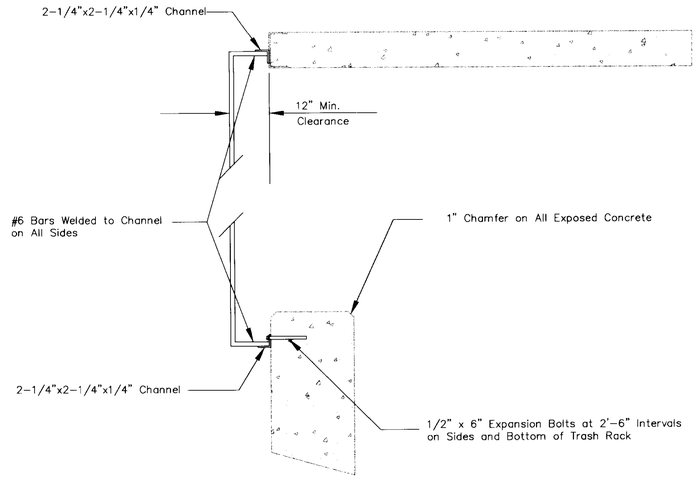

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



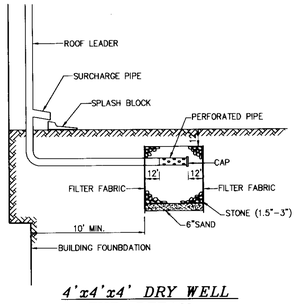

## DETAIL B
N.T.S.




## CORNER TREATMENT DETAIL C
N.T.S.




## SECTION 3
N.T.S.

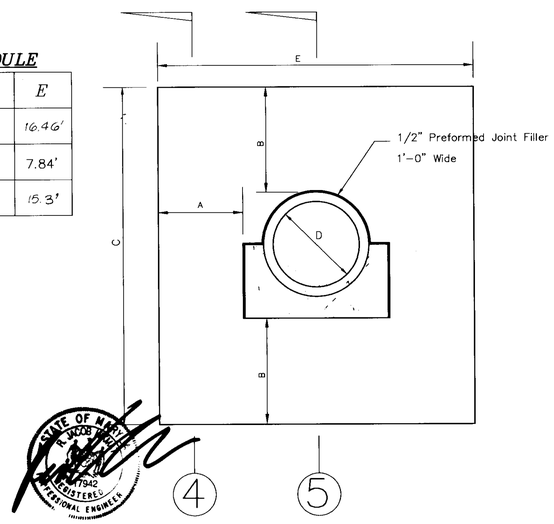



## 4'x4'x4' DRY WELL TYP. DETAIL
N.T.S.

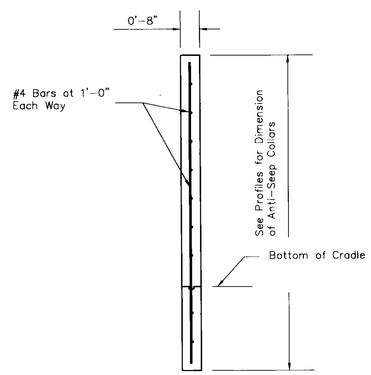
NOTE:
DRY WELL ARE TO BE CONSTRUCTED FOR PADS:
96 - 99, 154, 164 - 178, 218 - 221, 301 - 316
368 - 374, 377 - 383, 404 - 416.

## ANTI-SEEP COLLAR SCHEDULE

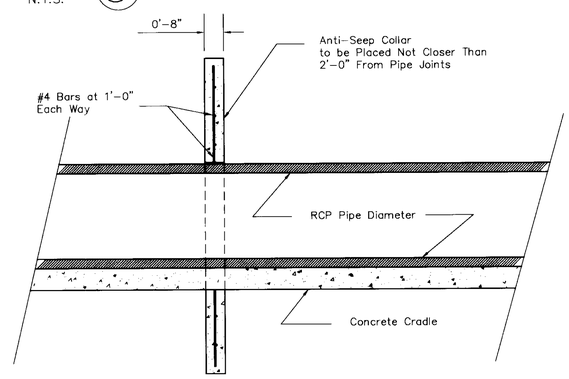
| POND | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | 5.7' | 5.7' | 15.8' | 36" | 16.46' |
| 2 | 2.0' | 2.0' | 7.0' | 24" | 7.84' |
| 3 | 5.7' | 5.7' | 14.4' | 24" | 15.3' |



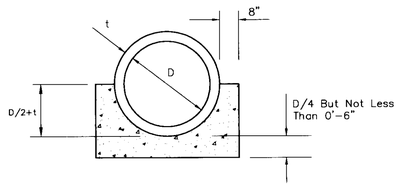

## ANTI-SEEP COLLAR DETAIL D
N.T.S.




## SECTION 4
N.T.S.



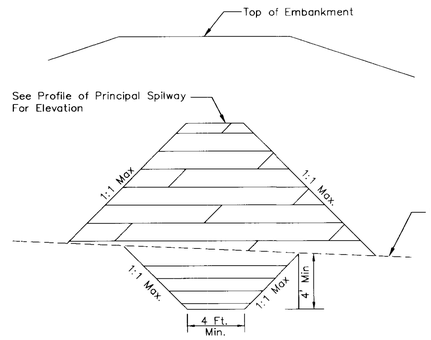

## SECTION 5
N.T.S.



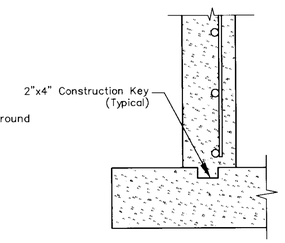

## DETAIL OF CONCRETE GRADLE
N.T.S.

## CONCRETE CRADLE SCHEDULE

| POND | D | t | D/4 |
|---|---|---|---|
| 1 | 36" | 4" | 9" |
| 2 | 24" | 3" | 6" |
| 3 | 24" | 3" | 6" |




## CORE TRENCH DETAIL E
N.T.S.




## DETAIL
N.T.S.

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96
R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCES ARTICLE.

SIGNATURE OF ENGINEER — DATE 1/18/96
R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

STATE OF MARYLAND — R. JACOB HIKMAT — No. 17942 — REGISTERED PROFESSIONAL ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

44-P-DET

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | J.H. |
| scale | approval |
| N.T.S. | J.H. |

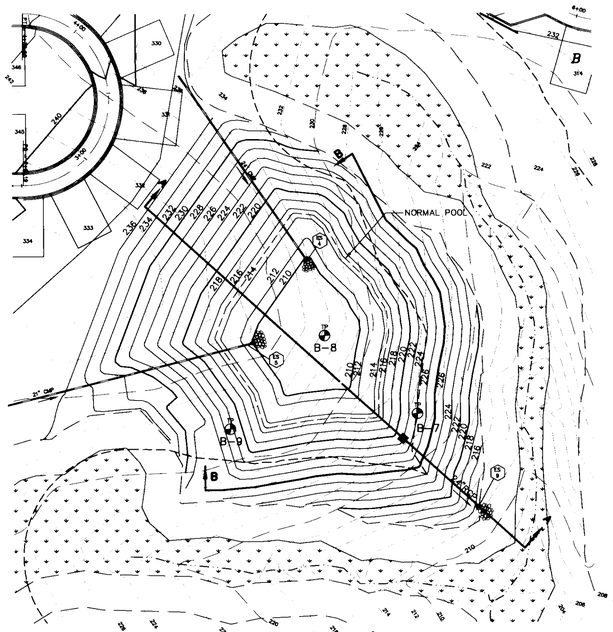
| no. | description / revisions | date |
|---|---|---|

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
STORMWATER MANAGEMENT DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax

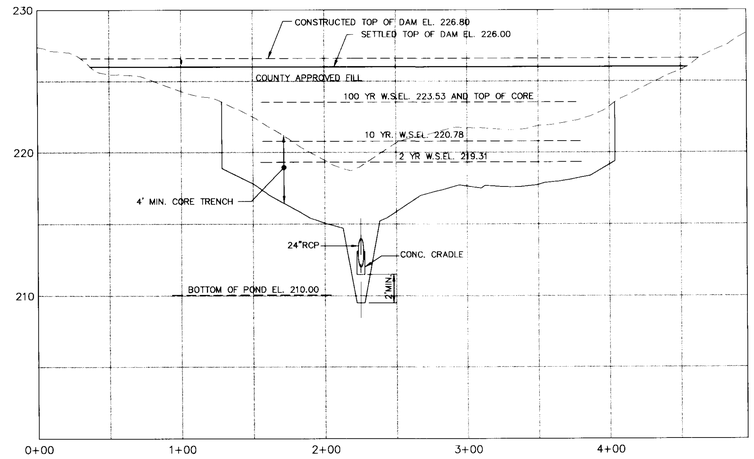


SDP-96-20



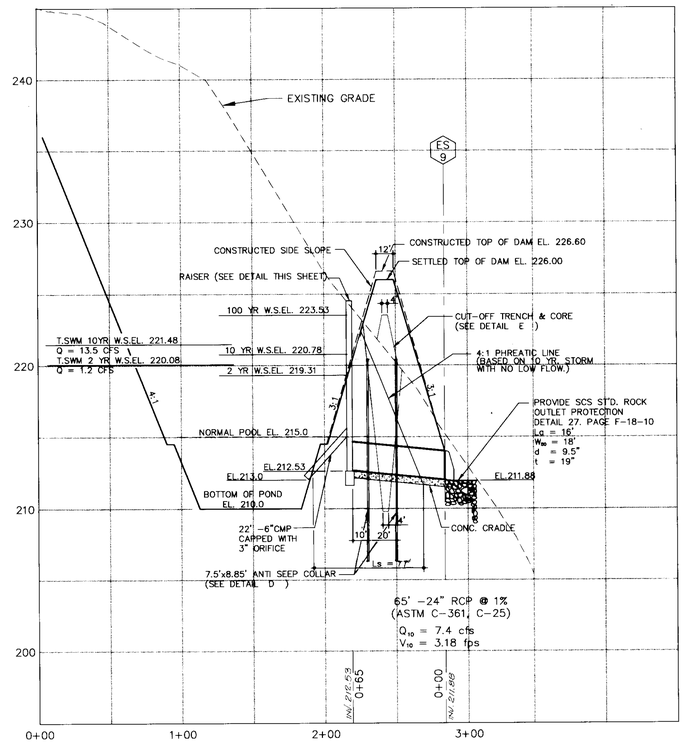

## POND – 3

SCALE : 1" = 50'



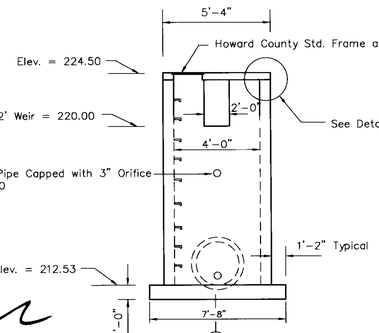

## SECTION B–B OF DAM ALONG CENTERLINE

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'



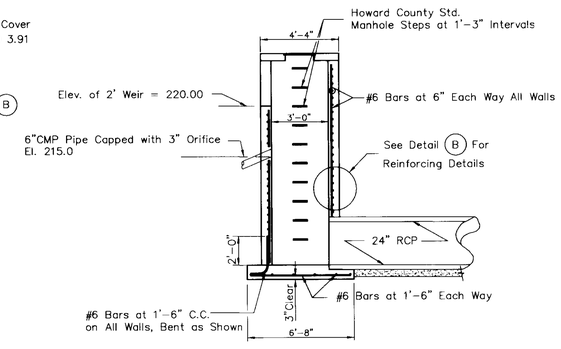

## PROFILE – SECTION A–A OF POND – 3

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'




## ELEVATION

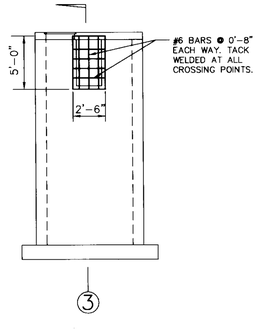
N.T.S.




## SECTION 2

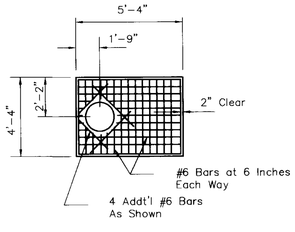
N.T.S.

## RISER DETAILS




## ELEVATION OF TRASH RACK

N.T.S.




## TOP SLAB DETAIL

N.T.S.

## POND 3 DATA

HAZARD CLASSIFICATION – "a"
DRAINAGE AREA – 13.3 ACRES
PROPOSED RCN – 86
PROPOSED Tc – 0.16
WATER QUALITY TYPE – RETENTION + EXTENDED DETENTION
WET POOL EL. = 215.00
2 YEAR STORM POOL EL. = 219.31 Q = 0.5 CFS
10 YEAR STORM POOL EL. = 220.78 Q = 7.4 CFS
100 YEAR STORM POOL EL. = 223.53 Q = 42.2 CFS
REQUIRED WET STORAGE = 0.55 AC.FT.
PROVIDED WET STORAGE = 0.75 AC.FT.

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS.

**DEVELOPERS CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96
R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/18/96
R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE NATURAL RESOURCE CONSERVATION SERVICE AND MEET TECHNICAL REQUIREMENTS.

NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURAL RESOURCE CONSERVATION SERVICE.

NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

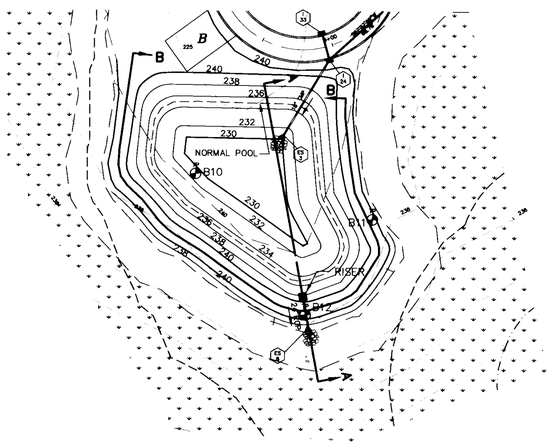
44-POND3.DWG

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | J.H. |
| scale | approval |
| AS SHOWN | J.H. |

| no. | description | date |
|---|---|---|
| | revisions | |

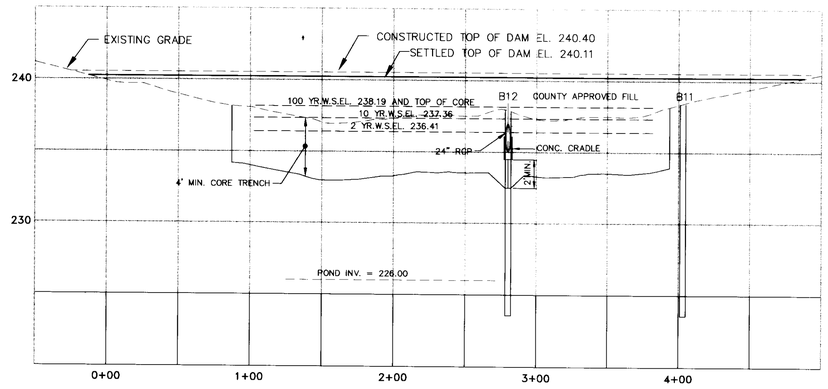
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
STORMWATER MANAGEMENT PROFILES AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



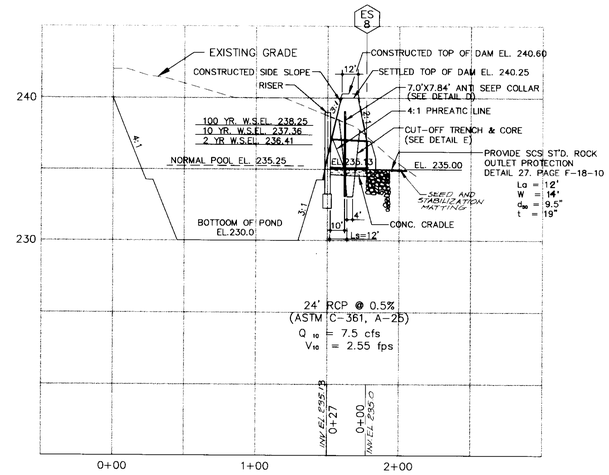

## POND – 2

SCALE : 1" = 50'



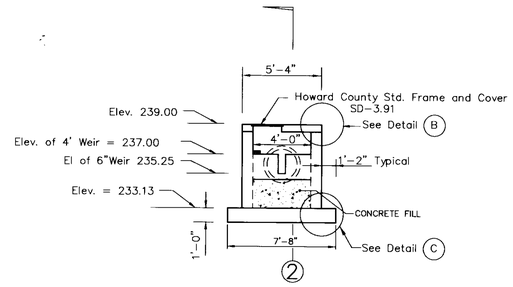

## CROSS SECTION B–B OF DAM ALONG CENTERLINE

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'



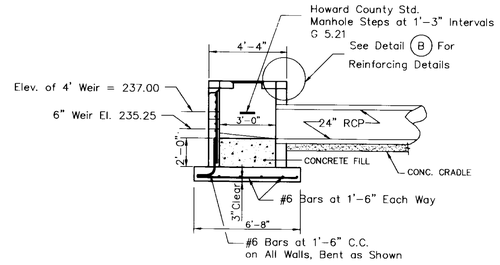

## PROFILE – SECTION A–A POND 2

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'




## ELEVATION

N.T.S.



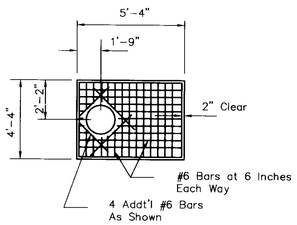

## SECTION 2

N.T.S.

## RAISER DETAILS

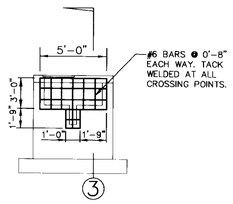
## POND 2 DATA

HAZARD CLASSIFICATION "a"
DRAINAGE AREA – 4.9 ACRES
PROPOSED RCN – 88
PROPOSED Tc – 0.15
WATER QUALITY TYPE – RETENTION
WET POOL EL. = 235.25
2 YEAR STORM POOL EL. = 236.41, Q = 2.0 CFS
10 YEAR STORM POOL EL. = 237.36, Q = 7.5 CFS
100 YEAR STORM POOL EL. = 238.25, Q = 17.0 CFS
REQUIRED WET STORAGE = 0.2 AC.FT.
PROVIDED WET STORAGE = 1.35 AC.FT.




## TOP SLAB DETAIL

N.T.S.




## ELEVATION

N.T.S.

## TRASH RACK DETAIL

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCES CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 11/17/95

R. WAYNE NENSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCES CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

STATE OF MARYLAND — R. JACOB HIKMAT — No. 17042 — REGISTERED PROFESSIONAL ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

44-POND2.DWG

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date | |
|---|---|---|
| 94044 | JAN 96 | |
| illustration | engineering | |
| M.P. | J.H. | |
| scale | approval | |
| AS SHOWN | J.H. | |

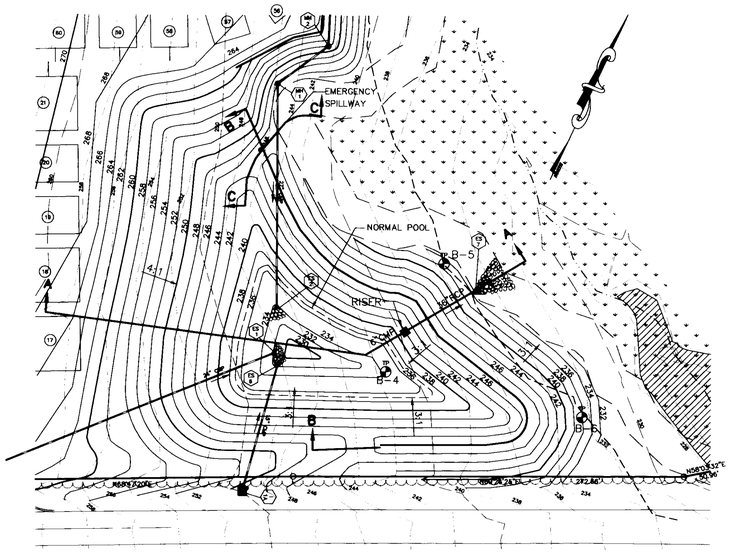
| no. | description / revisions | date |
|---|---|---|

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
STORMWATER MANAGEMENT PROFILES AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5321 Wash. (410) 997-0298 Fax

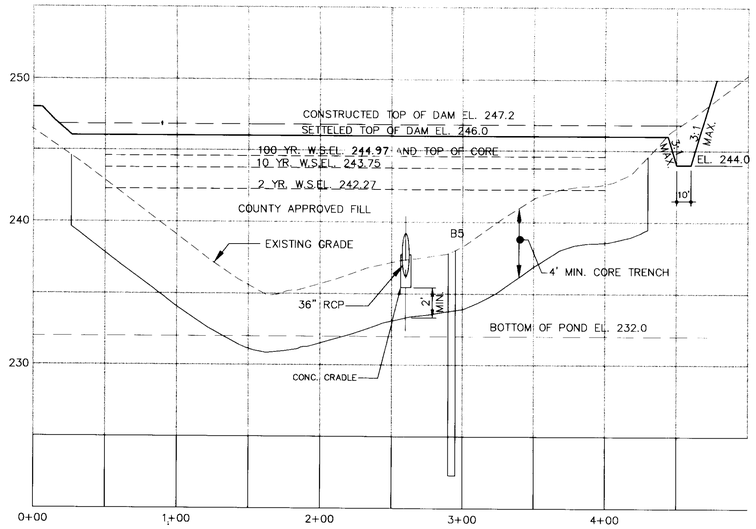


SDP-96-20



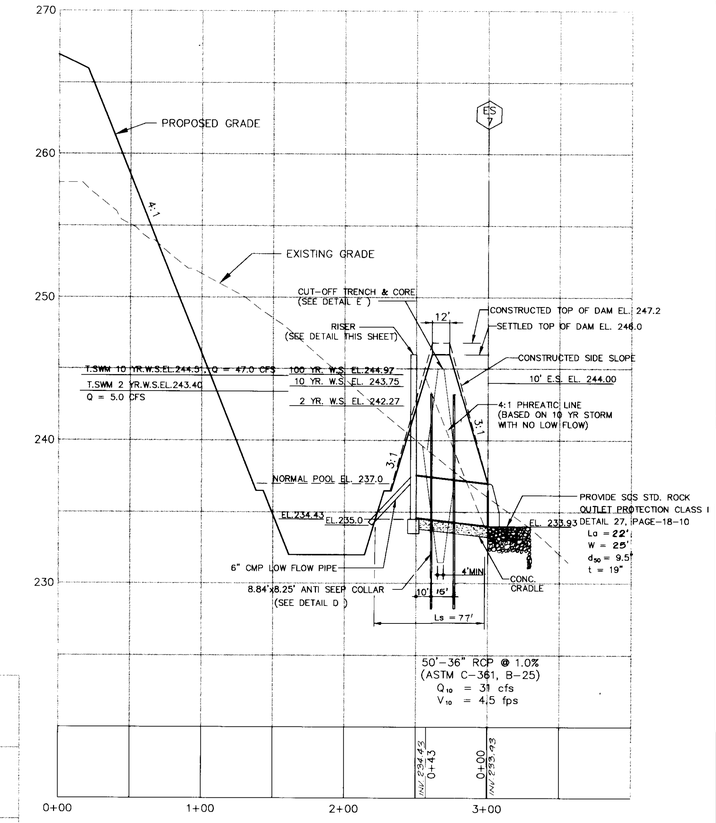

## POND – 1

SCALE : 1" = 50'




## CROSS SECTION B – B OF DAM ALONG CENTERLINE

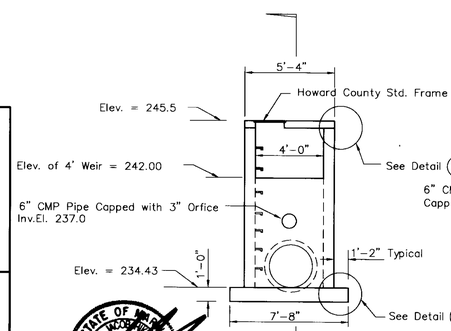
HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'




## PROFILE – SECTION A – A OF POND ONE

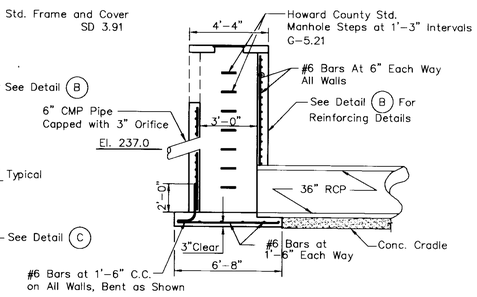
HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

**NOTE:**
POND TO BE GRADED TO EL. 228 DURING CONSTRUCTION. AFTER STABILIZATION OF CONTRIBUTING DRAINAGE AREAS, IT SHOULD BE GRADED TO ELEVATION INDICATED ON THE PROFILE.




## ELEVATION

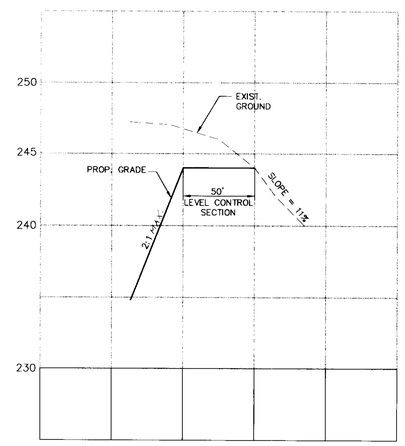
N.T.S.




## SECTION 2

N.T.S.

## RISER DETAILS




## PROFILE–SECTION C–C ALONG CENTERLINE OF EMERGENCY SPILLWAY

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

## POND 1 DATA

HAZARD CLASSIFICATION "a"
DRAINAGE AREA – 18.9 ACRES
PROPOSED RCN – 84
PROPOSED Tc – 0.47
WATER QUALITY TYPE – RETENTION+EXTENDED DETENTION
WET POOL EL. = 437.0
2 YEAR STORM POOL EL. = 242.27, Q = 5.0 CFS
10 YEAR STORM POOL EL. = 243.76, Q = 31.0 CFS
100 YEAR STORM POOL EL. = 244.97, Q =104.0 CFS (ULTIMATE)
REQUIRED WET STORAGE = 0.78 AC.FT.
PROVIDED WET STORAGE = 0.78 AC.FT.

**DEVELOPERS CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

STATE OF MARYLAND — RICHARD W. WOOD — No. 17942 — PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1/10/96

RICHARD W. WOOD
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA–NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

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HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

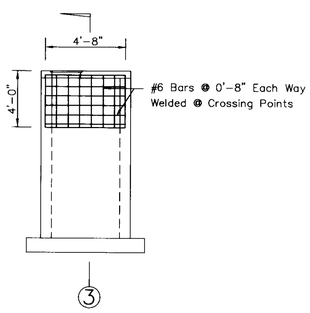
APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

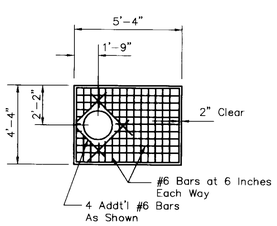
44-POND1.DWG




## ELEVATION

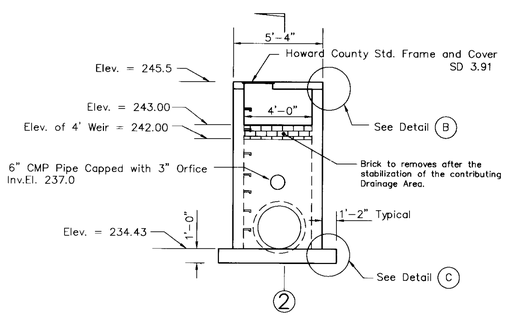
N.T.S.

## TRASH RACK DETEIL




## TOP SLAB DETAIL

N.T.S.




## TEMPORARY S.W.M. WEIR BLOCKING DETAIL

N.T.S.

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OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | J.H. |
| scale | approval |
| AS SHOWN | J.H. |

| no. | description | date |
|---|---|---|
| | revisions | |

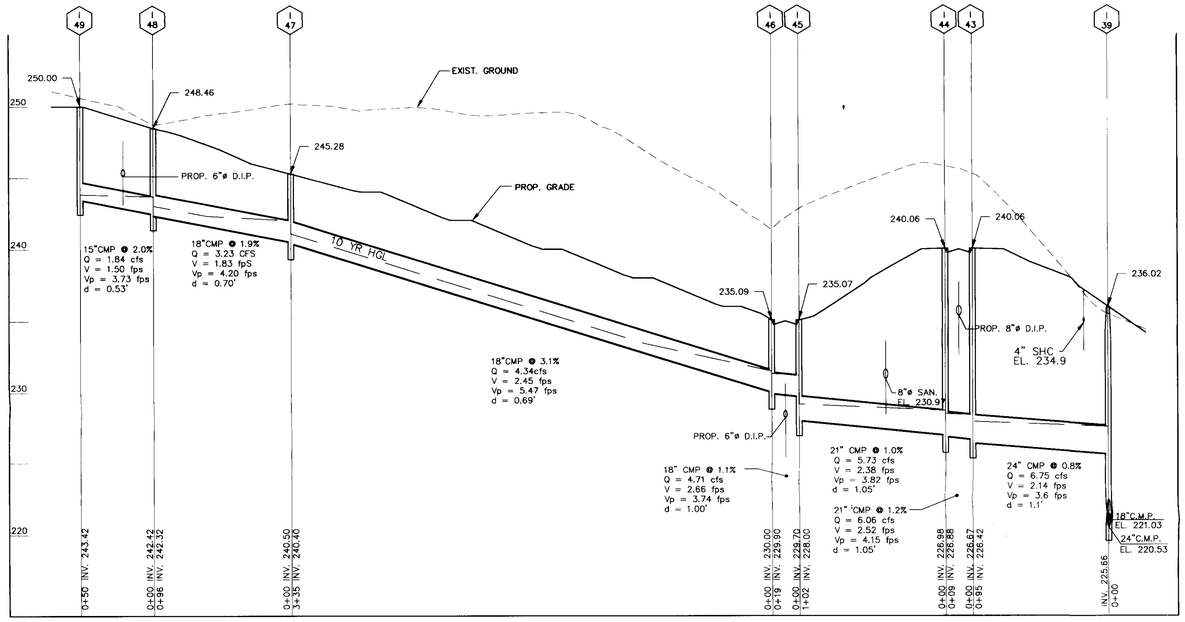
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
STORMWATER MANAGEMENT PROFILES AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5321 Wash. (410) 997-0298 Fax

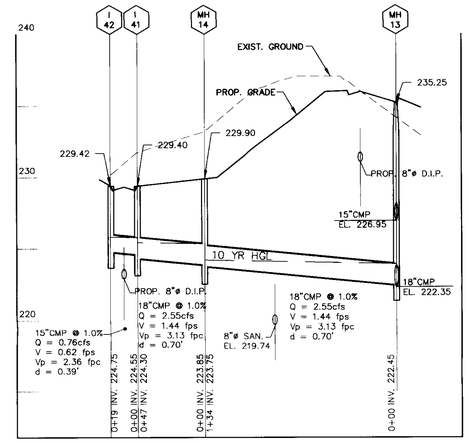


SDP-96-20

NOTE : USE 16 GAGE CORRUGATED METAL PIPES UNLESS OTHERWISE SHOWN.




HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

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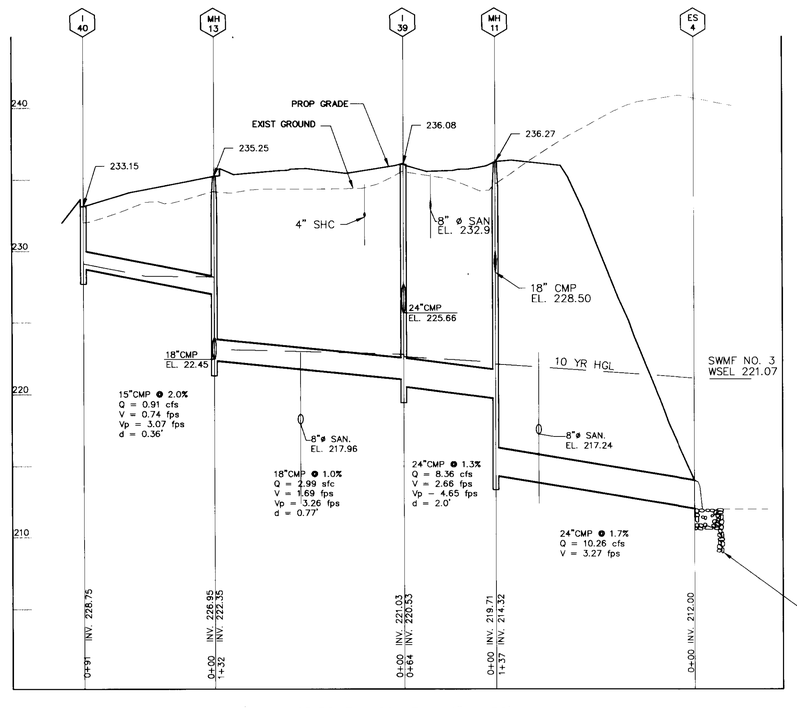
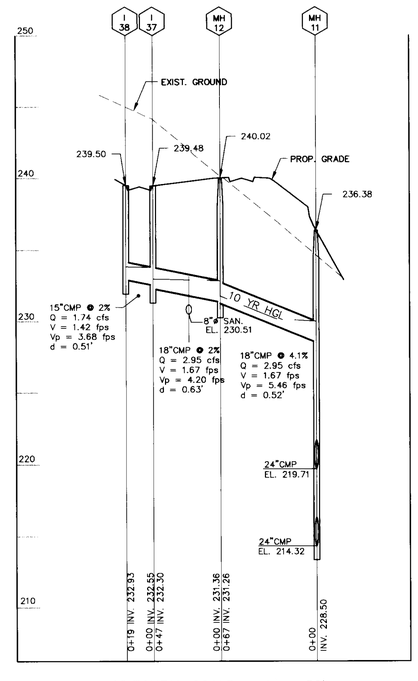



PROVIDE SCS STD. ROCK OUTLET PROTECTION DETAIL 27, PAGE F-18-10
Lo = 15'
W = 15'
$d_{50}$ = 6"
t = 14"
SEE DETAIL, PAGE OF

HORIZONTAL SCALE : 1" = 50'
VERTICAL SCALE : 1" = 5'

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DEVELOPERS CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HILKMAN
PRINTED NAME OF ENGINEER

STATE OF MARYLAND — R. JACOB HILKMAN — No. 14742 — REGISTERED PROFESSIONAL ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

DR-PR-1

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| project 94044 | date JAN 96 |
| illustration MP/SJD | engineering ES |
| scale AS SHOWN | approval JBM |

| no. | date | description |
|---|---|---|

TAX MAP 43, PARCEL 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
STORM DRAIN PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
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SDP-96-20

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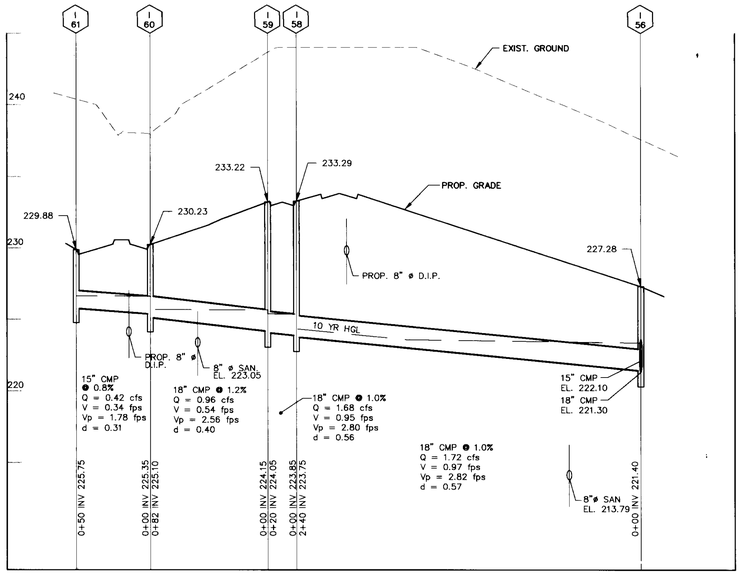


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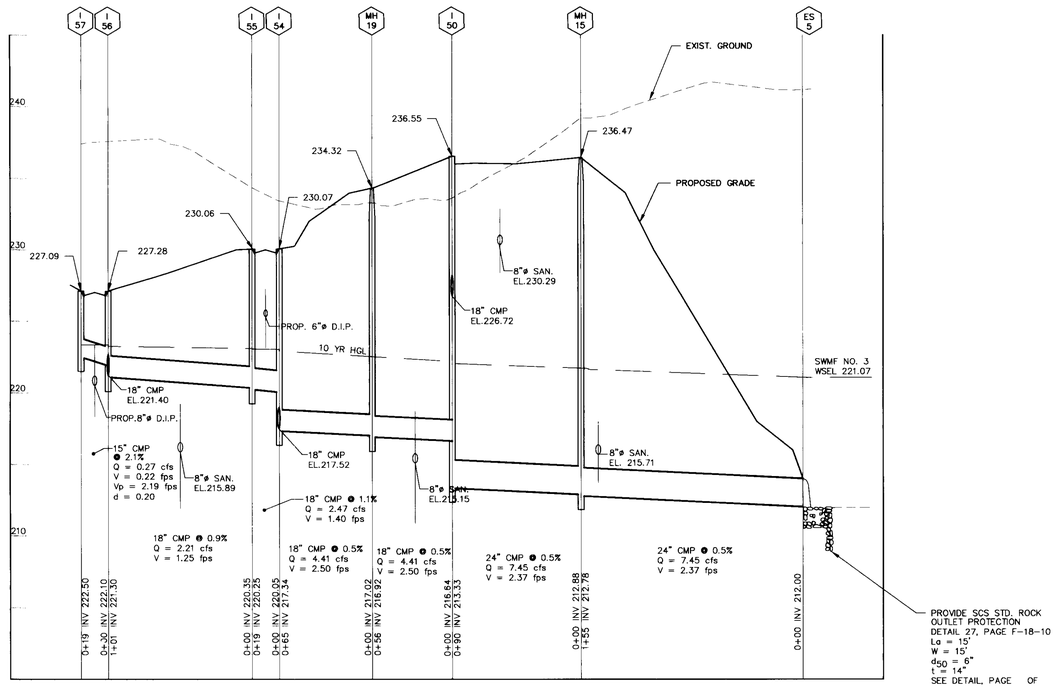


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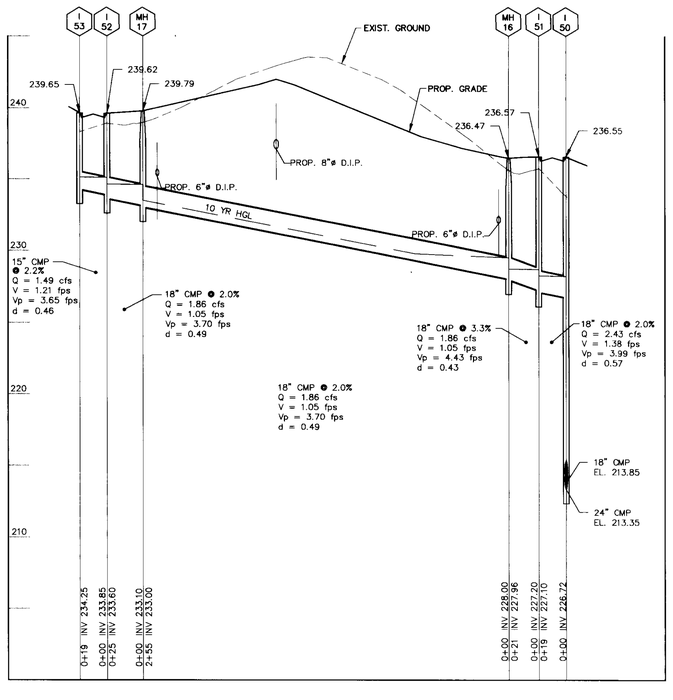


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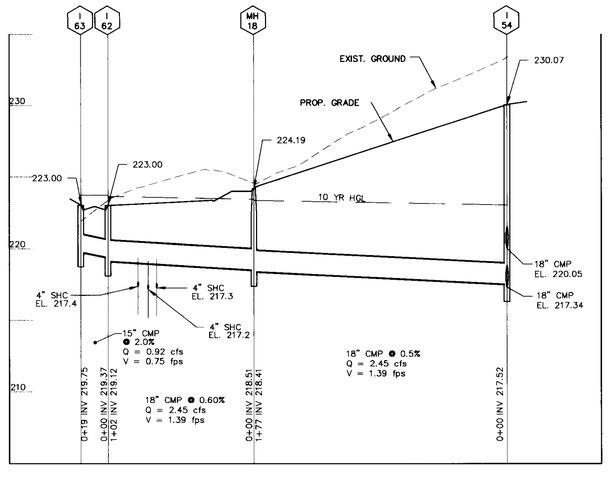


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SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE HEYSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

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STATE OF MARYLAND — R. JACOB HILL — No. 17942 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HILL
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Gilman — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

DR-DR-2

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OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN.96 |
| illustrator | engineering |
| MAT | ES |
| scale | approval |
| AS SHOWN | JBM |

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, PARCEL 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
STORM DRAIN PROFILES

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SDP-96-20

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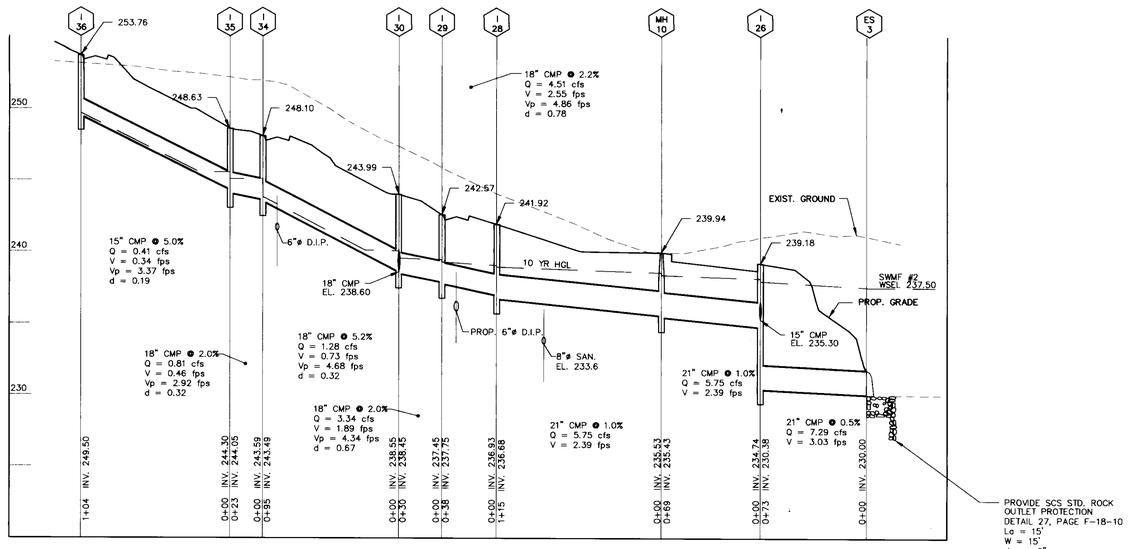


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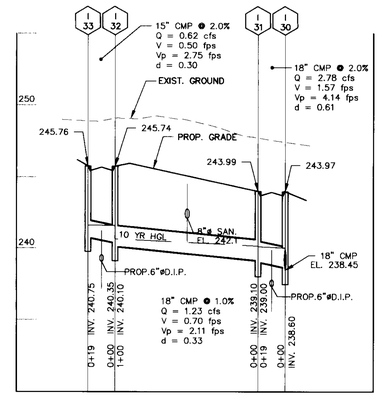


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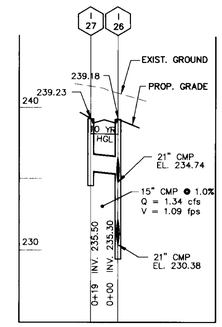


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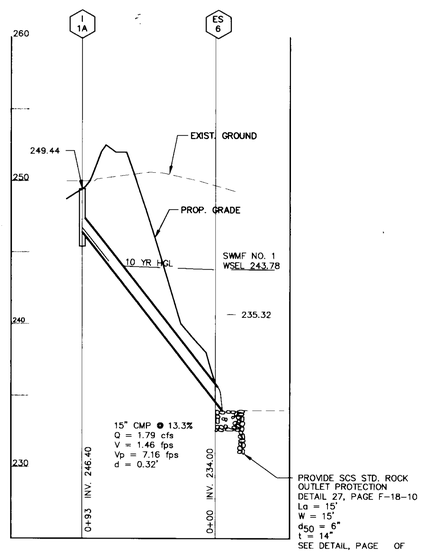


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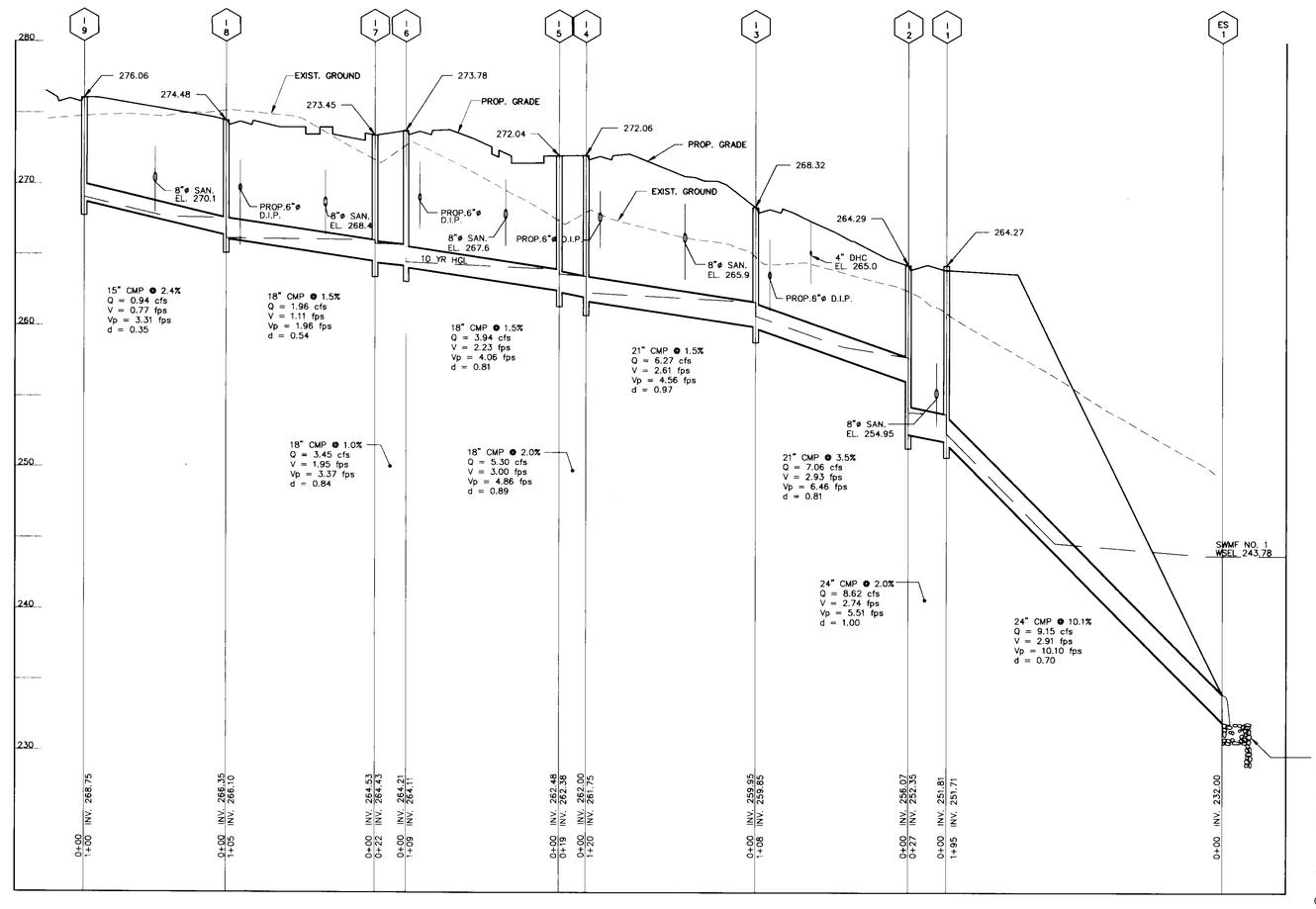


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STATE OF MARYLAND
R. WAYNE NEWSOME
No. 17942
REGISTERED PROFESSIONAL ENGINEER

## DEVELOPERS CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1/18/96

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SIGNATURE OF ENGINEER — DATE 1/10/96

R. ERIC KIRKMAT
PRINTED NAME OF ENGINEER

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USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

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HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

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CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

DR-PP-3

| project | date |
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| 94044 | JAN 96 |
| illustrator | engineering |
| SJD | ES |
| scale | approval |
| AS SHOWN | RJH/JBM |

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HOWARD COUNTY
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STORM DRAIN PROFILES


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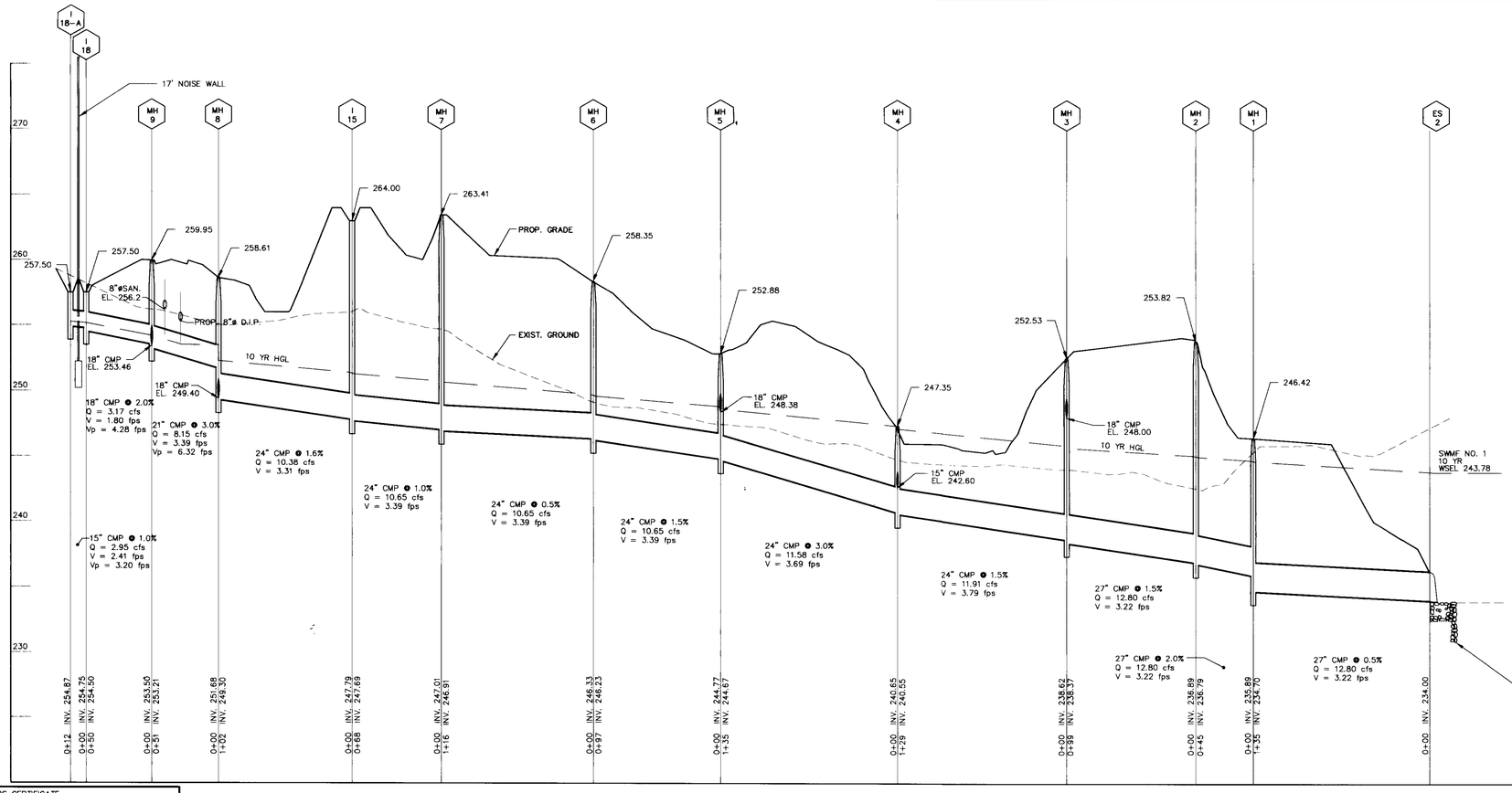
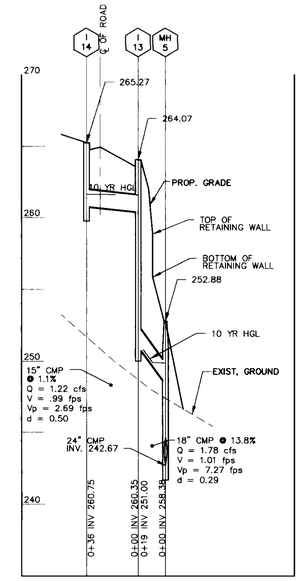
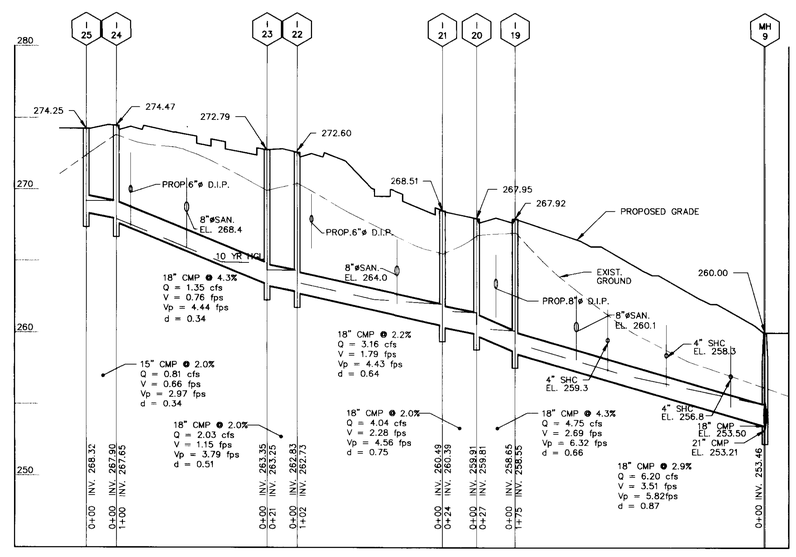
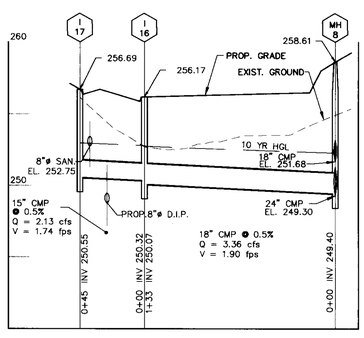
(410) 526-4030

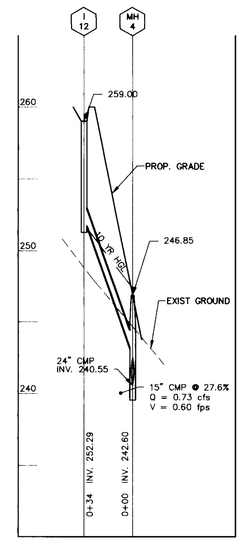
NOTE : USE 16 GAGE CORRUGATED METAL PIPES UNLESS OTHERWISE SHOWN.

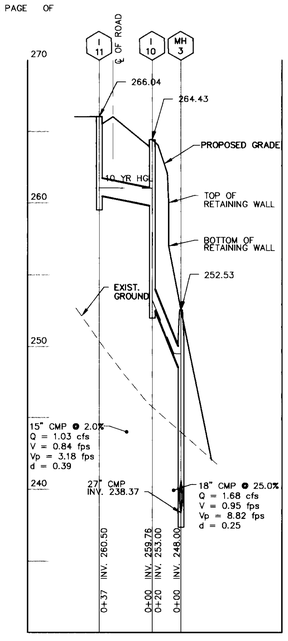



DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/11/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HERMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

DR-PR-3

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustrator | engineering |
| SJD | ES |
| scale | approval |
| AS SHOWN | RJH/JBM |

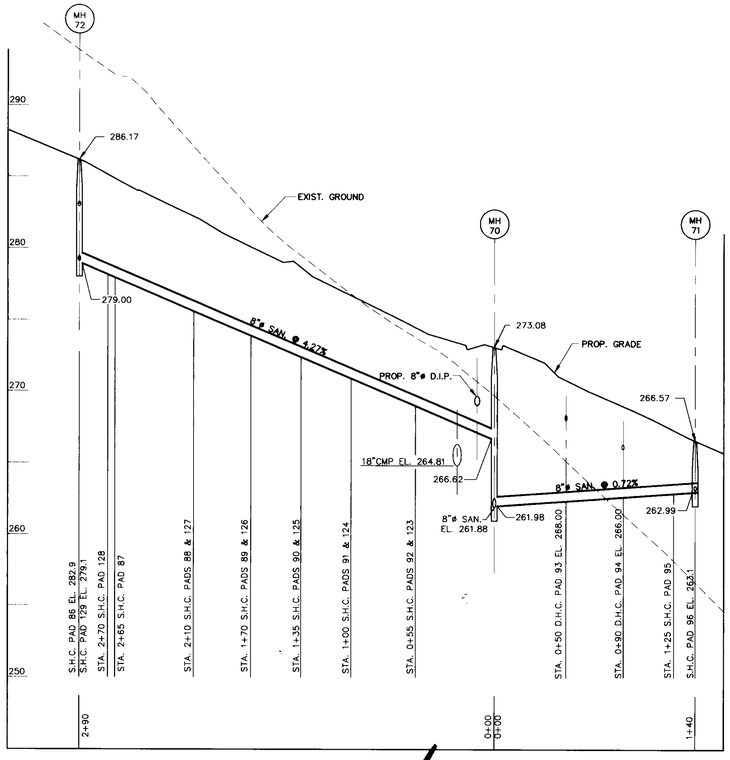
| no. | description revisions | date |
|---|---|---|

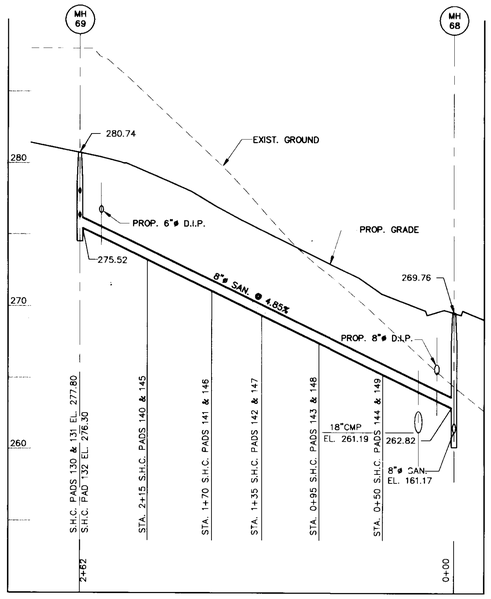
TAX MAP 43, PARCEL 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
STORM DRAIN PROFILES

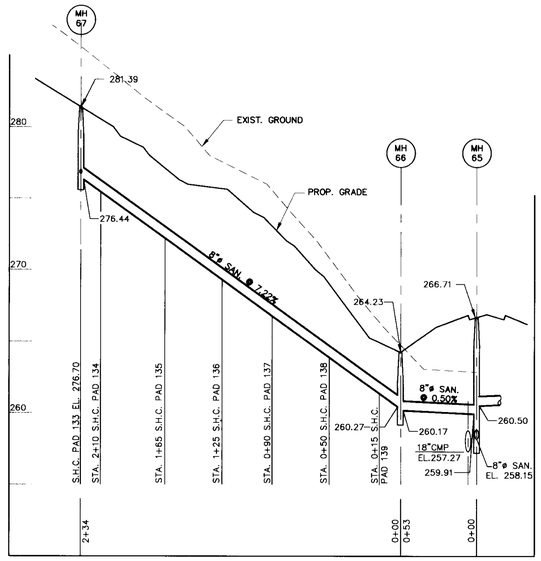
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5321 Wash. (410) 997-0298 Fax

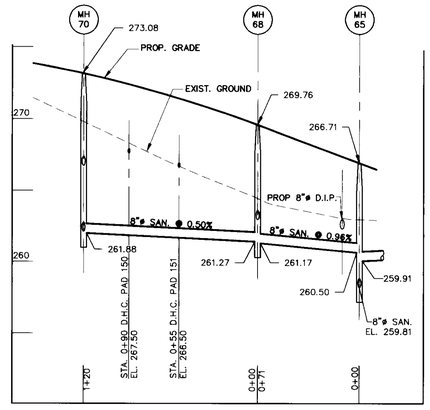


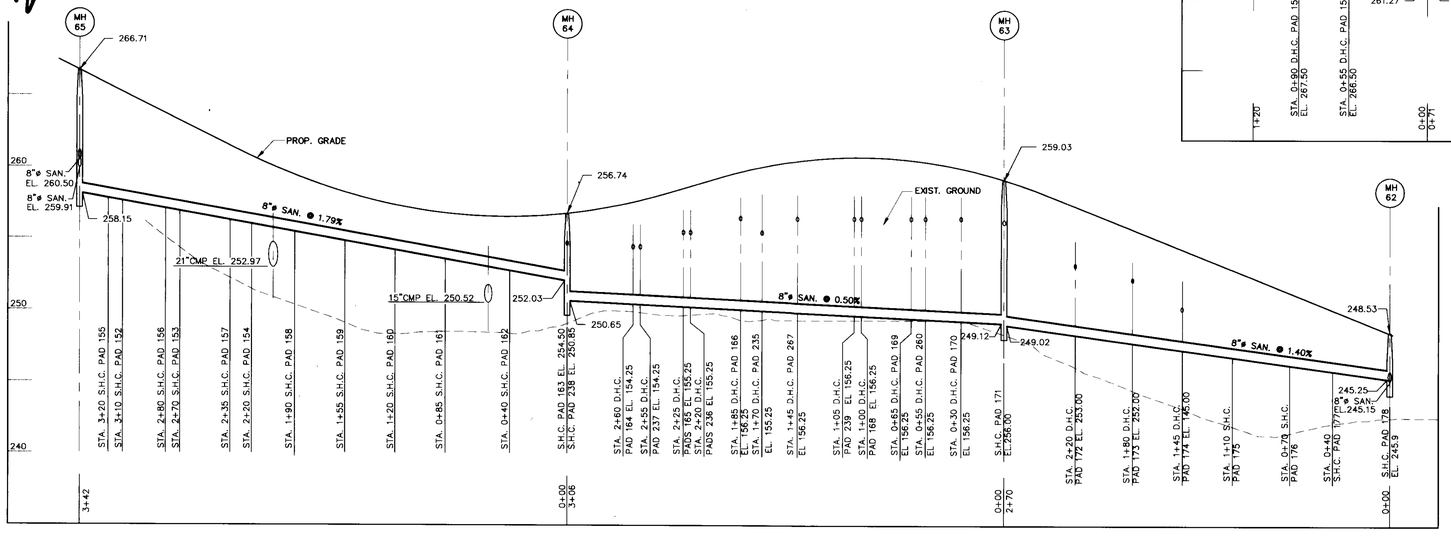
SDP-96-20




DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/17/96

E. WAYNE HOHOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. TAYLOR SCHMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engelken — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zimmerman — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

044-SAN

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN.96 |
| illustrator | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR.:1"=50' VER.:1"=5' | J.H. |

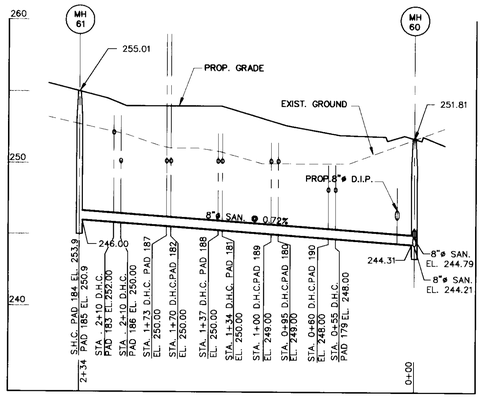
| no. | description / revisions | date |
|---|---|---|

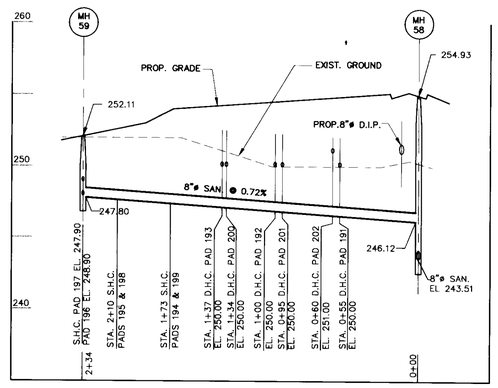
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SANITARY SEWER PROFILES

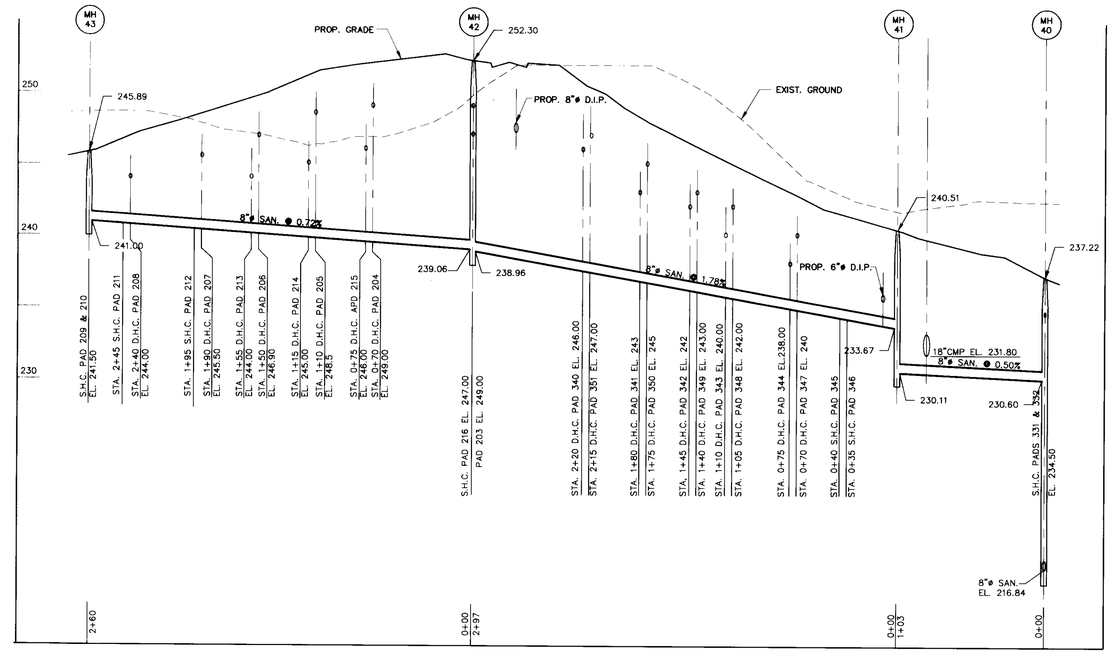
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5321 Wash. (410) 997-0298 Fax

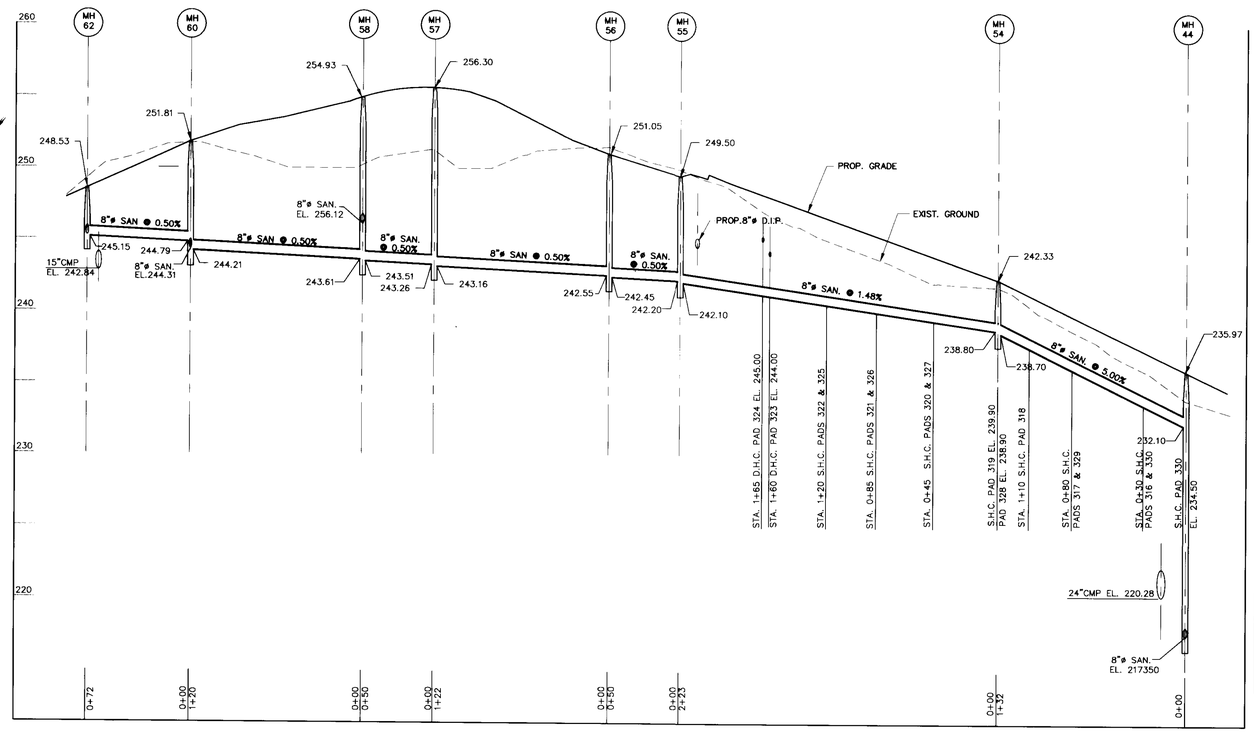


SDP-96-20




DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS. THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

STATE OF MARYLAND — R. SCOTT MATT — No. 17795

SIGNATURE OF ENGINEER — DATE 1/10/96

R. SCOTT MATT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia English — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Gibbons — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/12/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

044-SAN

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustrator | engineering |
| M.P. | M.P. |
| scale | approval |
| | J.H. |

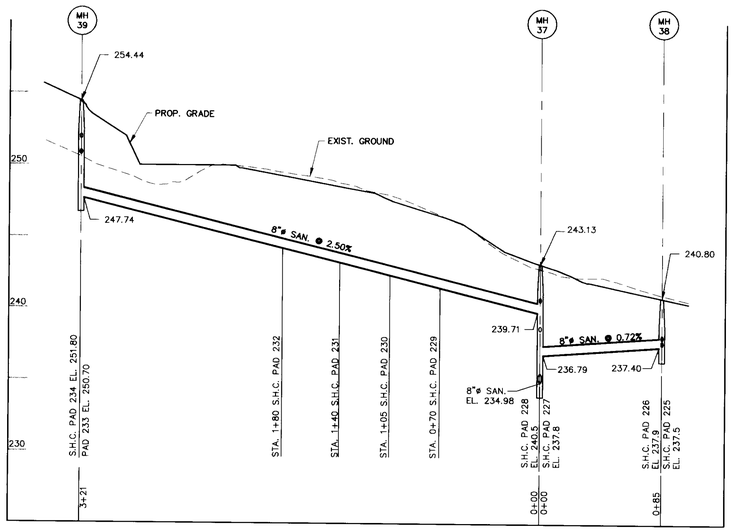
| no. | description | date |
|---|---|---|
| | revisions | |

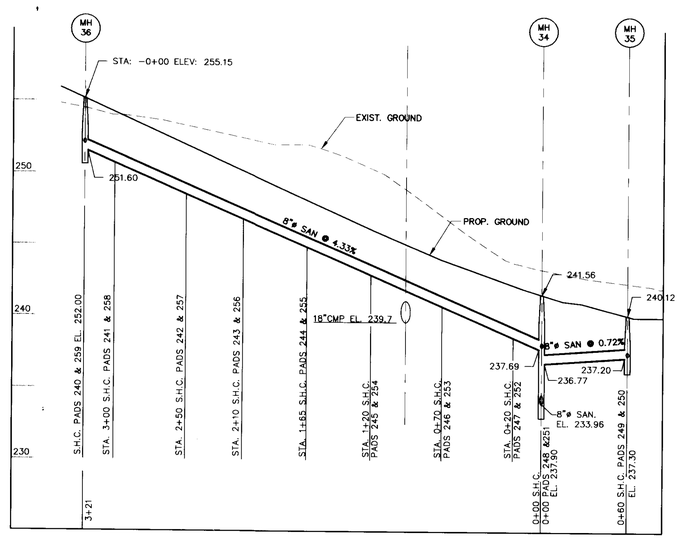
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
SANITARY SEWER PROFILES

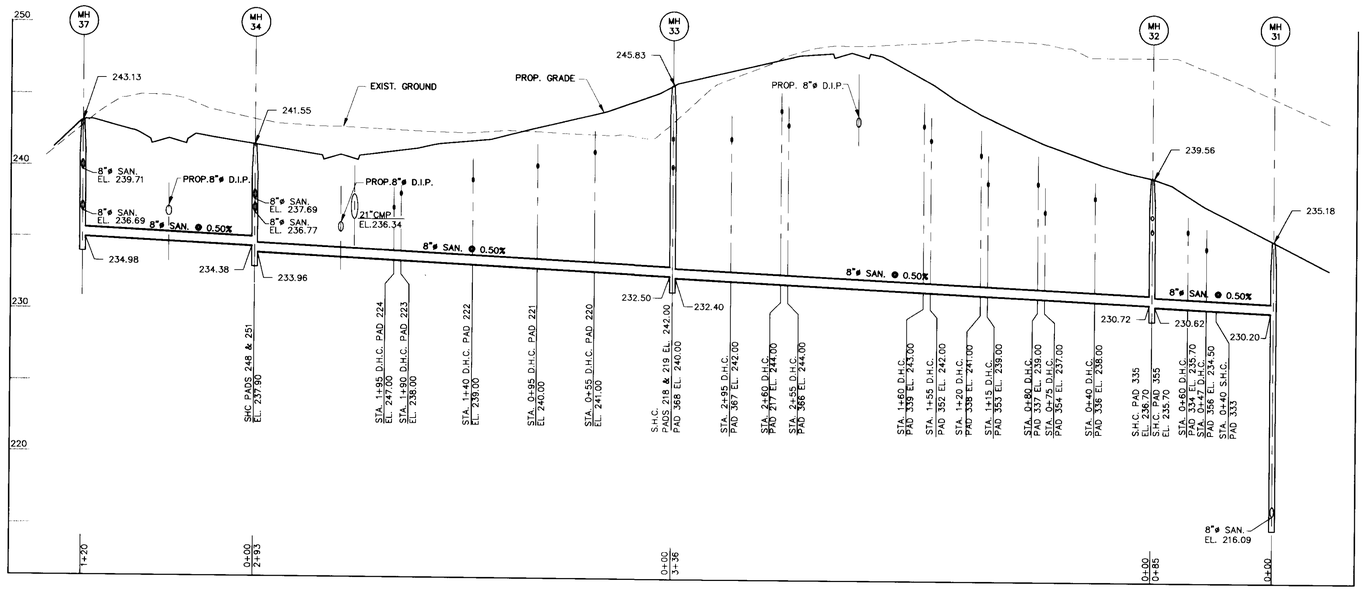
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20




DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/18/96

R. [illegible] MAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zirkin — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

Gina Fornimamp — 3/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE

DIRECTOR — DATE 3/14/96

044-SAN

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR.: 1"=50' VER.: 1"=5' | J.H. |

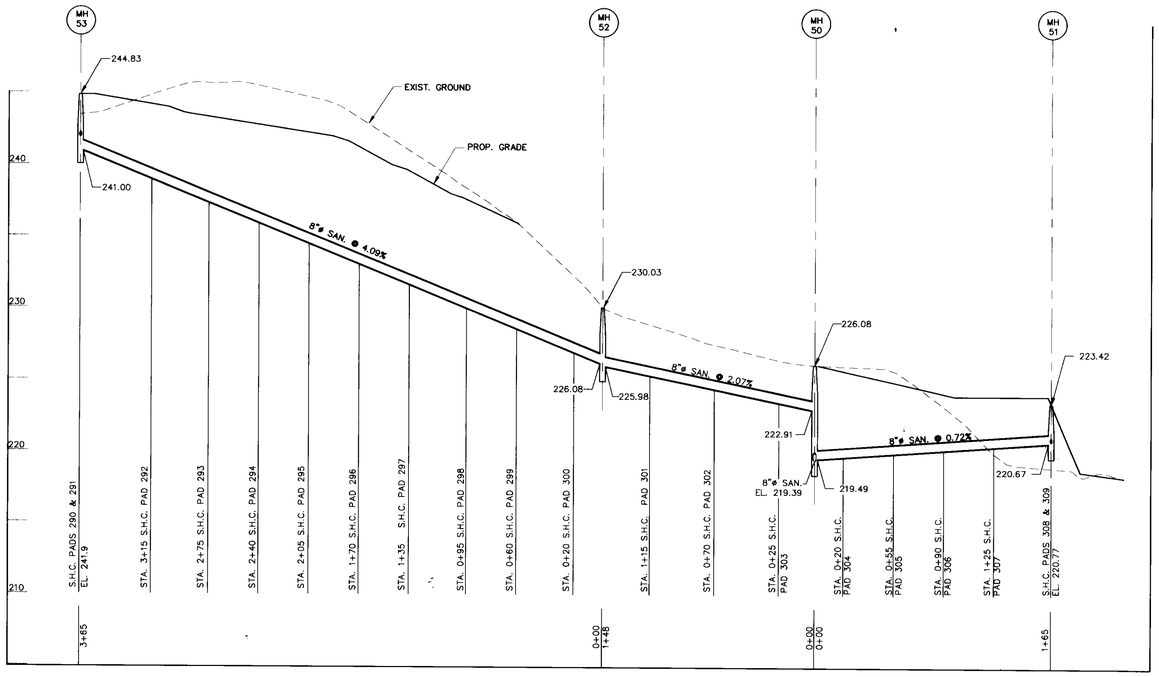
| no. | description | date |
|---|---|---|
| | revisions | |

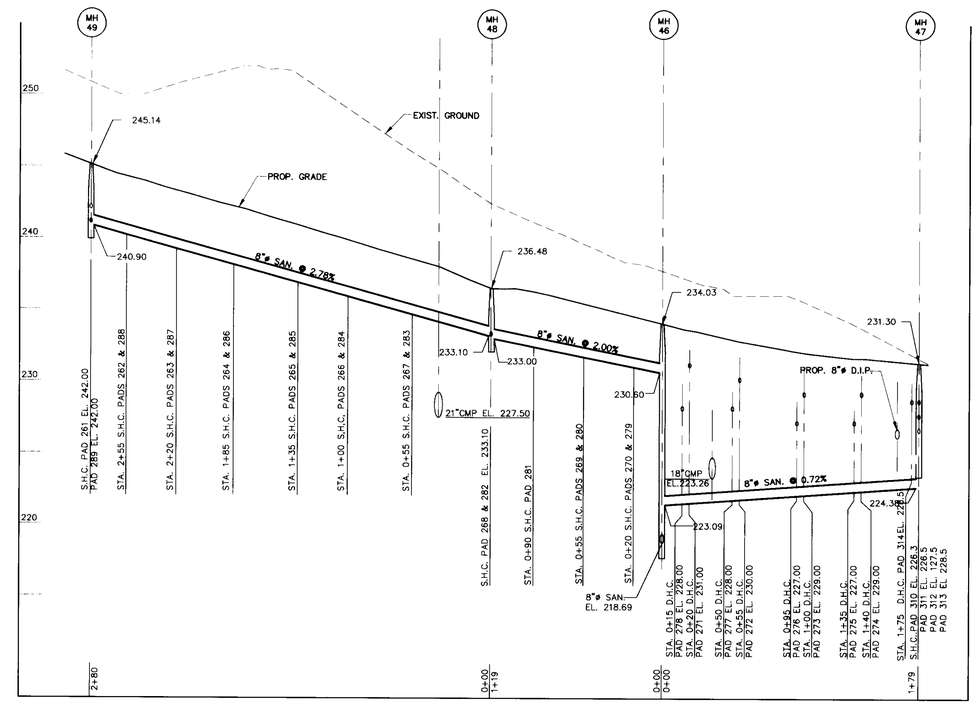
TAX MAP 43, PARCELS 4, 347 & P/O 3
# CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
## SANITARY SEWER PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20




DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

RICHARD B. KUMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zichum — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

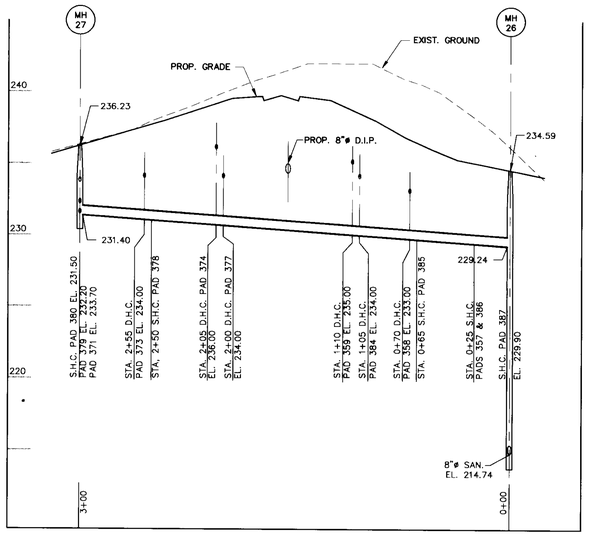
APPROVED: DEPARTMENT OF PLANNING AND ZONNING

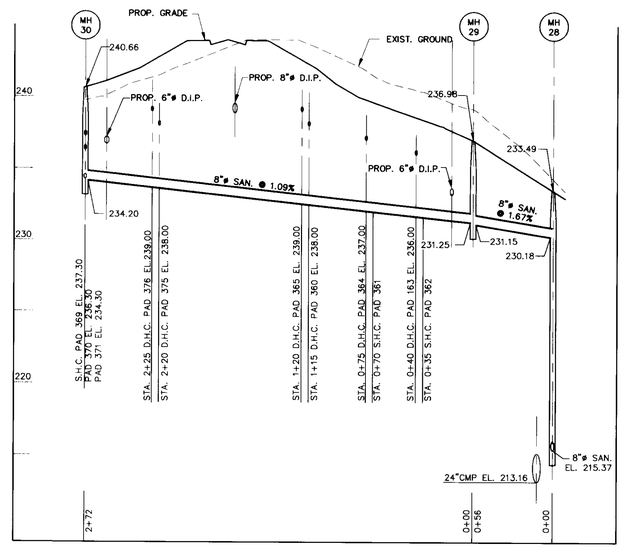
CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Guru Suryanarayana — 3/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE

3/14/96
DIRECTOR — DATE

044-SAN




*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

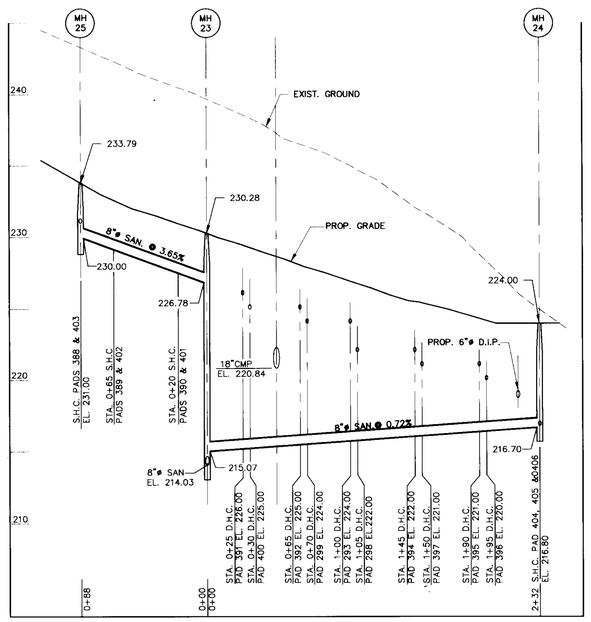
OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

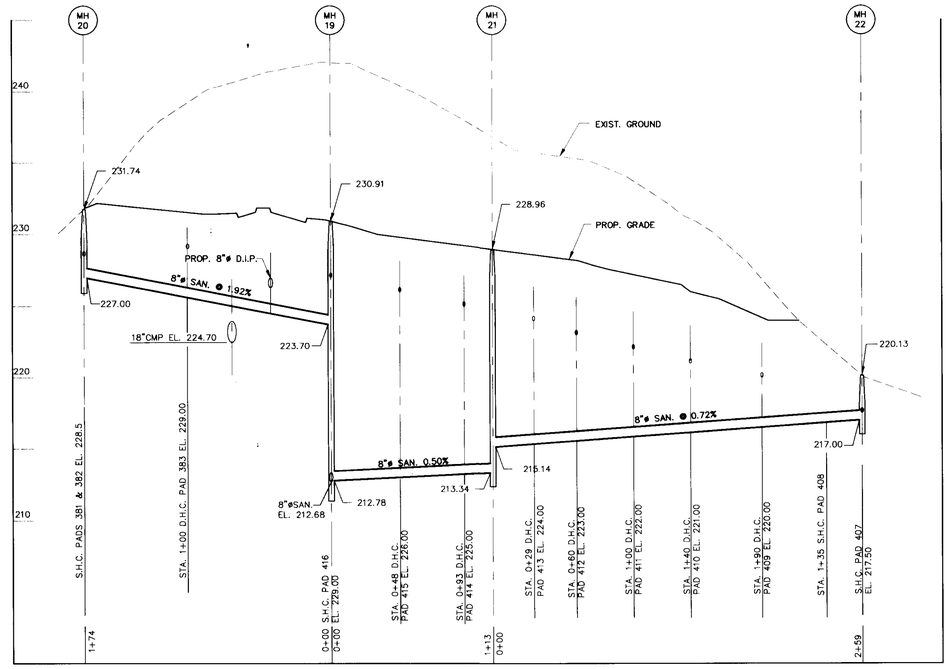
| project | date |
|---|---|
| 94044 | JAN.96 |
| illustration | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR.1"=50' VER.1"=5' | J.H. |

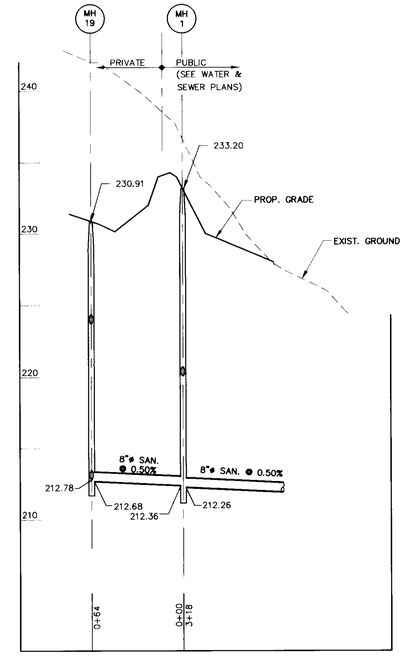
| no. | description / revisions | date |
|---|---|---|
| | | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SANITARY SEWER PROFILES

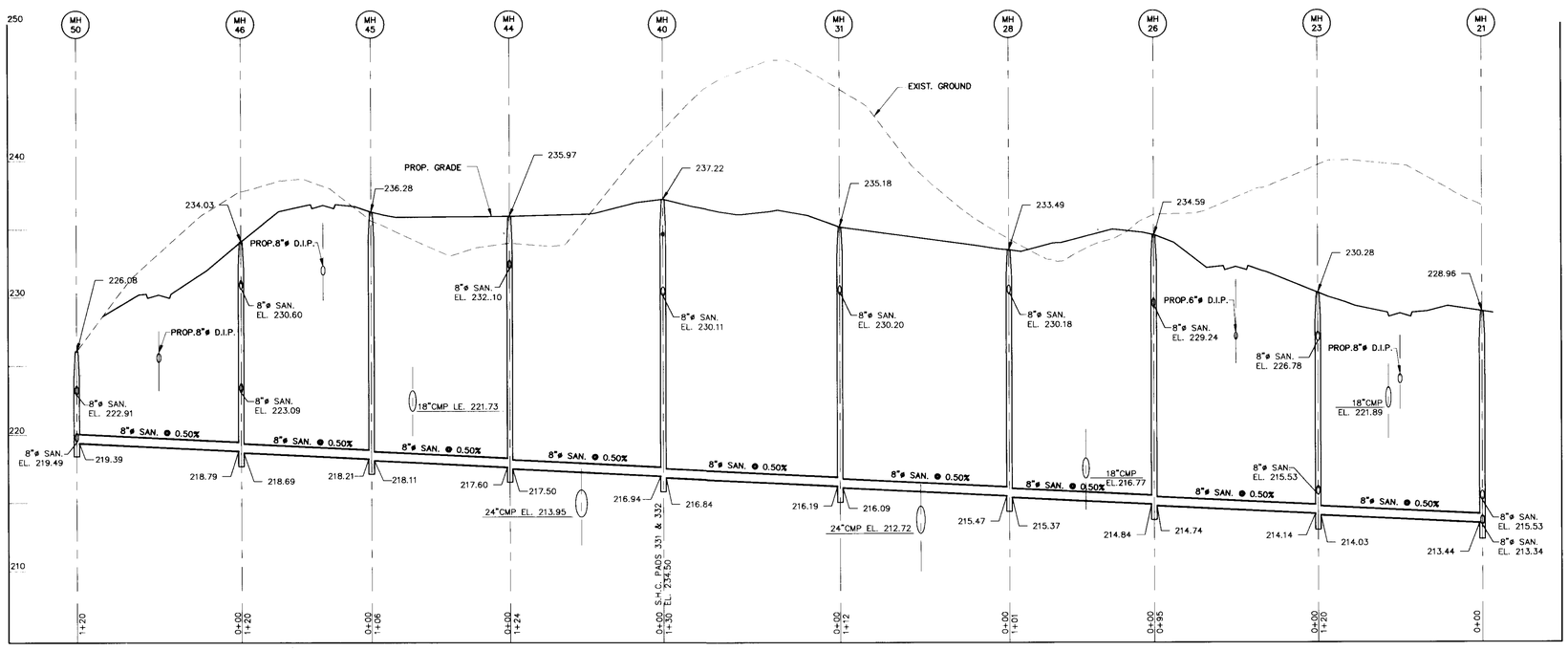
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Bult. (301) 621-5521 Wash. (410) 997-0298 Fax.




THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS




OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOMES
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/16/96

P. TROY HUKKAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

044-SAN

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | M.P. |
| scale HOR. 1"=50' VER. 1"=5' | approved J.H. |

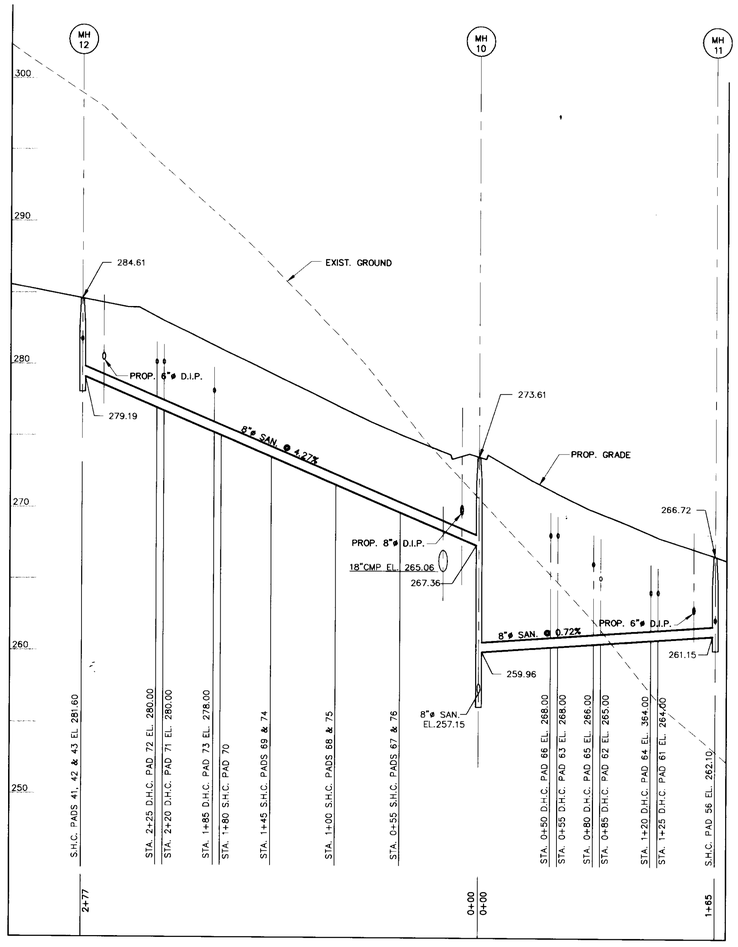
| no. | date | description revisions |
|---|---|---|

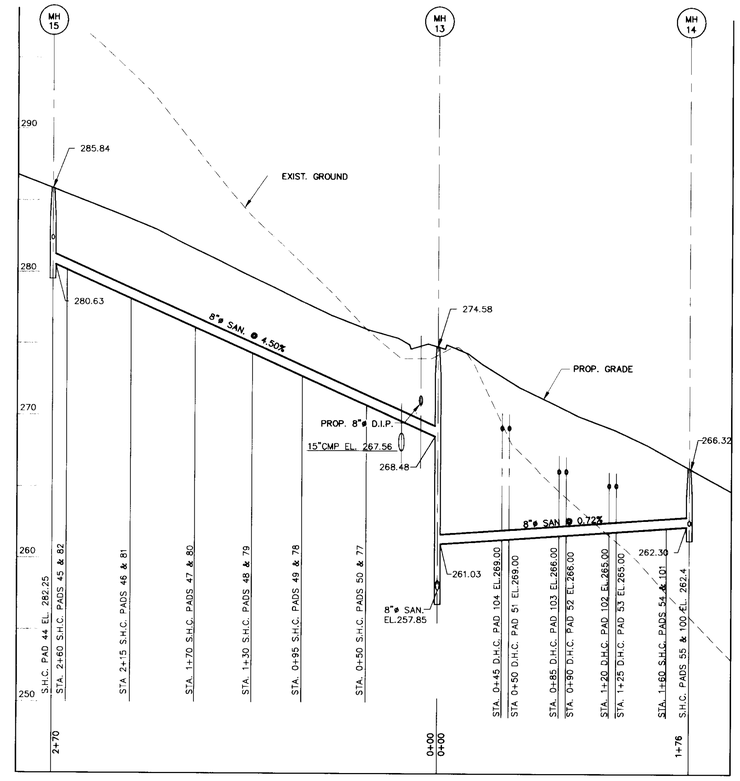
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
SANITARY SEWER PROFILES

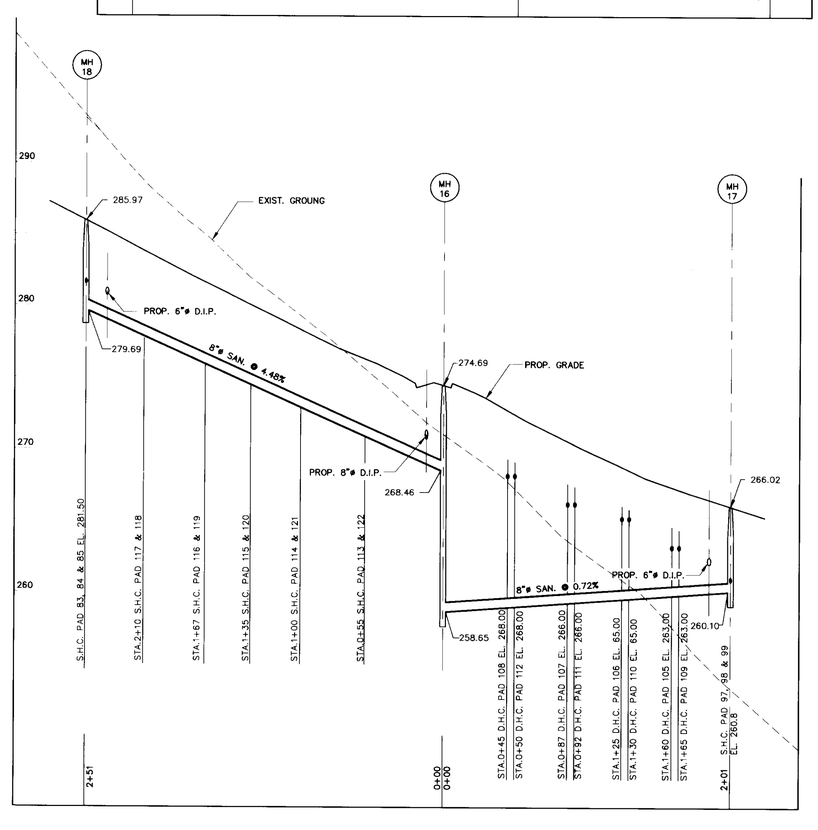
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20




DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE [illegible] THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. [illegible] KMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

044-SAN

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| drawn by | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR.:1"=50' VER.:1"=5' | J.H. |

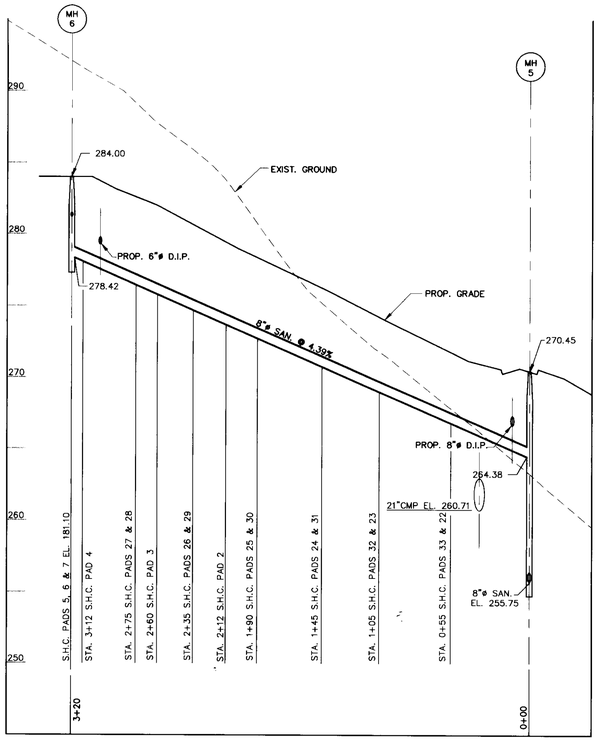
| no. | description of revisions | date |
|---|---|---|

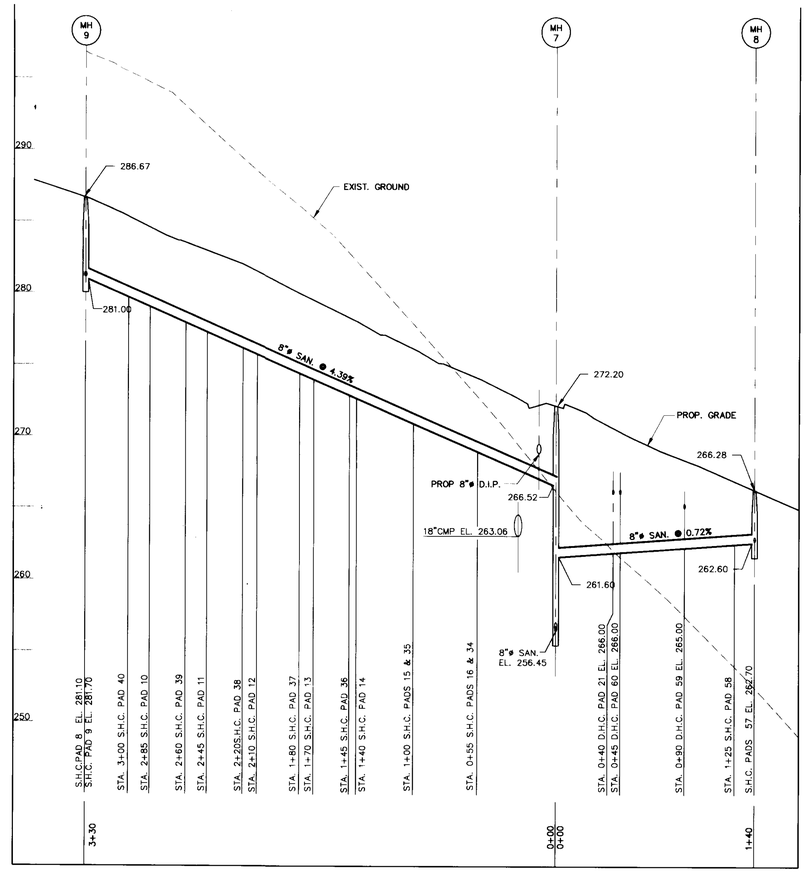
TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SANITARY SEWER PROFILES

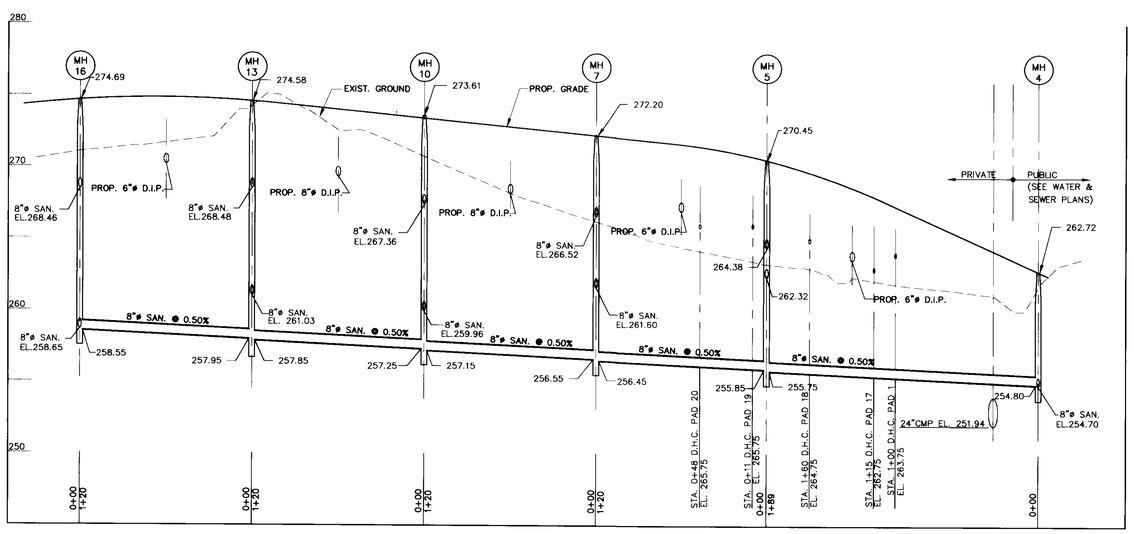
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20




## DEVELOPERS CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1/18/96

E. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

## ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/16/96

PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

044-SAN

*THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS*

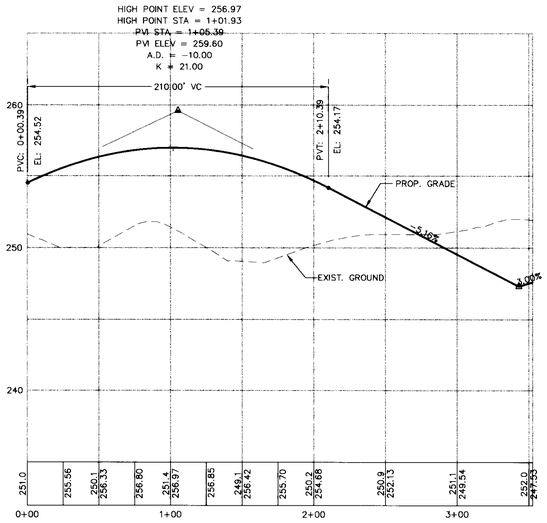
OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustrator | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR.:1"=50' VER.:1"=5' | J.H. |

| no. | description | date |
|---|---|---|
| | revisions | |

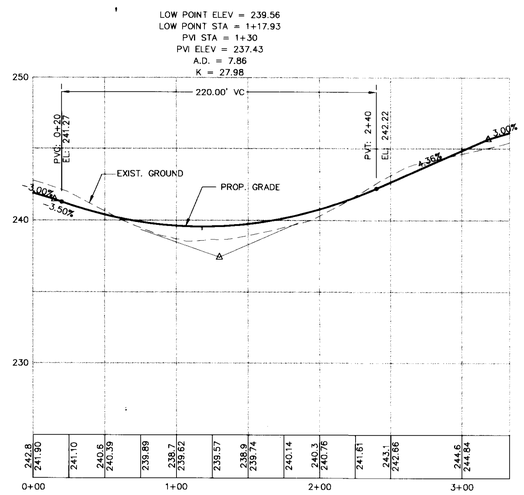
TAX MAP 43, PARCELS 4, 347 & P/O 3
# CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
## SANITARY SEWER PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



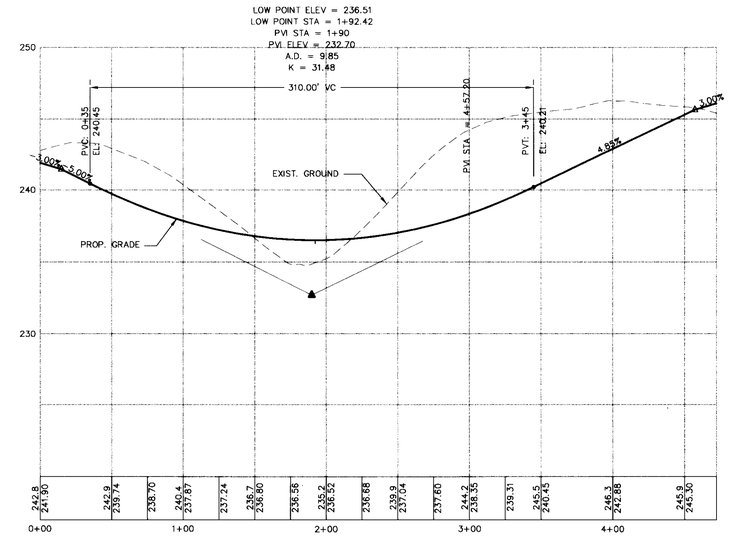

## ROAD "7" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'



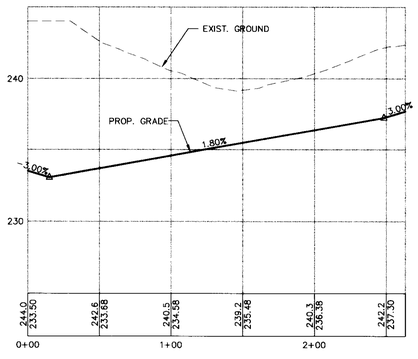

## ROAD "9A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'



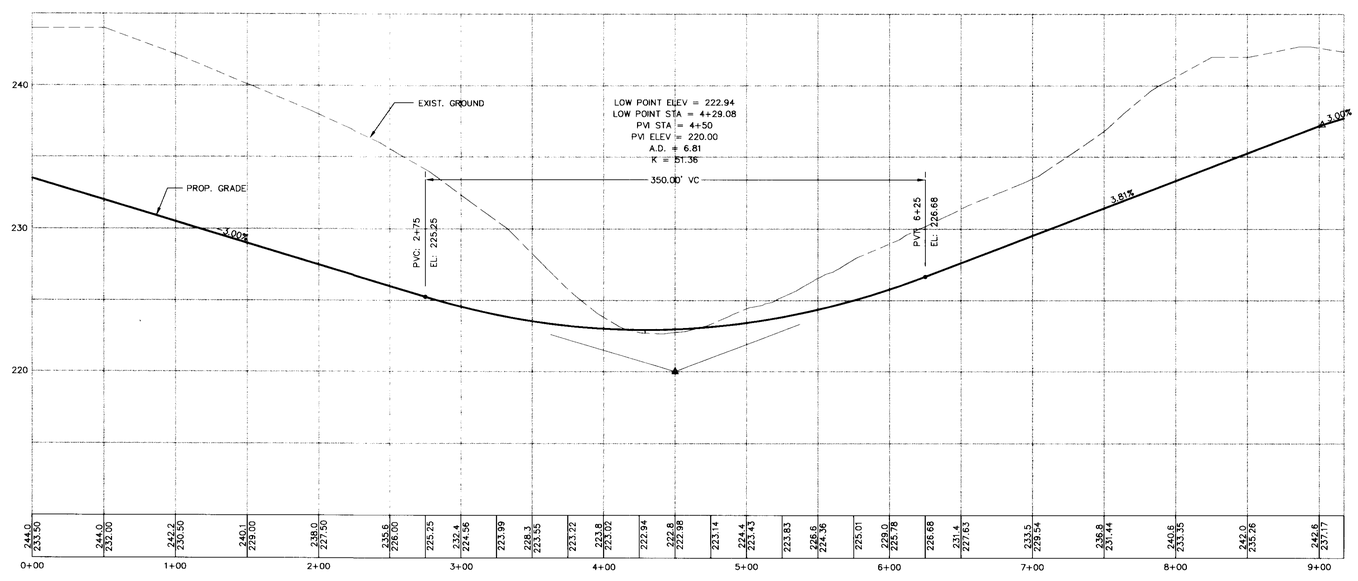

## ROAD "9A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "10A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "10B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

STATE OF MARYLAND — ROBERT W. KMAT — No. 24942 — PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1/10/96

ROBERT W. KMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engle — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zielke — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

Gina Summary — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

94044-PROF

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project | date |
|---|---|
| 94044 | JAN 96 |
| illustration | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR. 1"=50' VER. 1"=5' | J.H. |

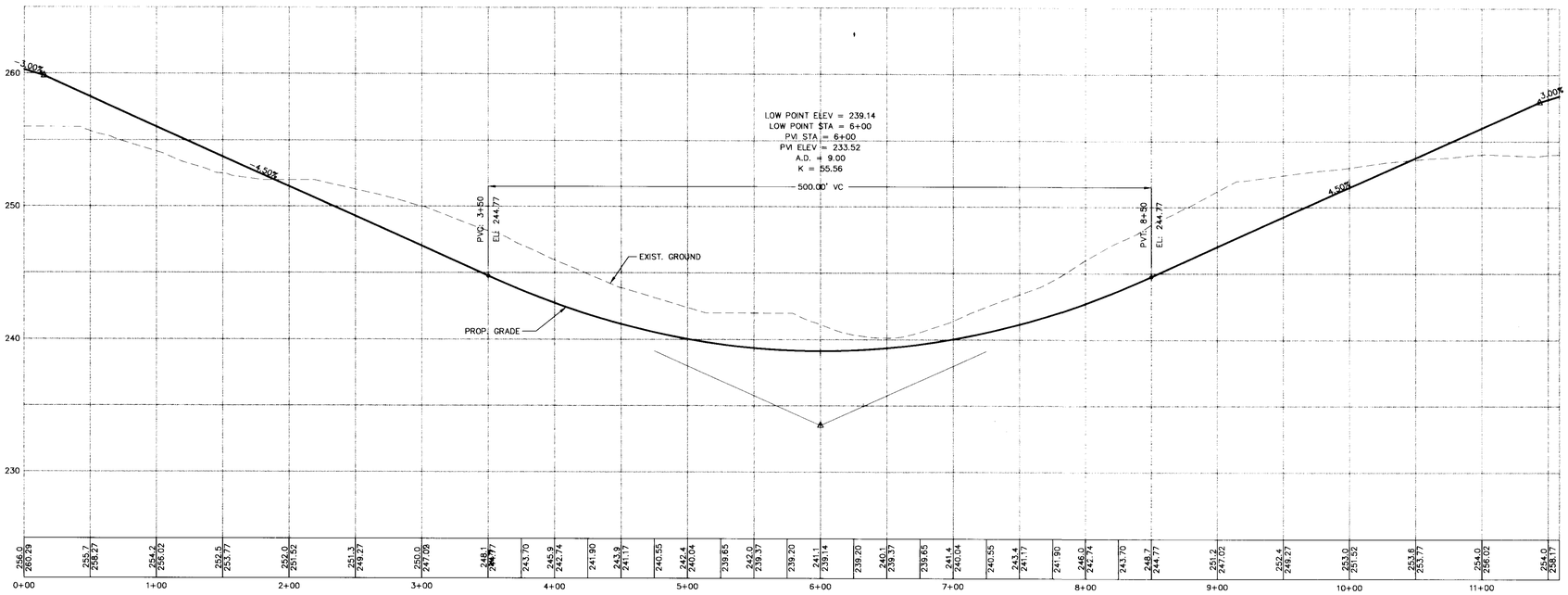
| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
ROAD PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax

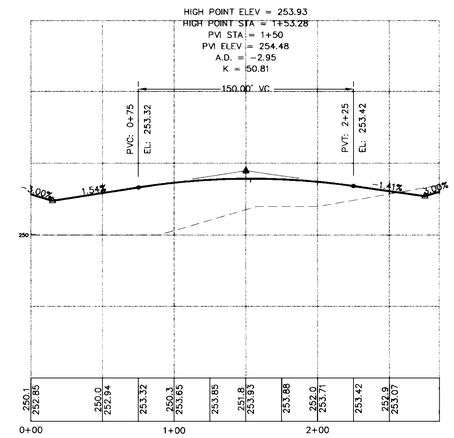


SDP-96-20




## ROAD "5B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "6" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND [illegible] PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/16/96

R. THOMAS MAT[illegible]
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engle — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zihlman — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

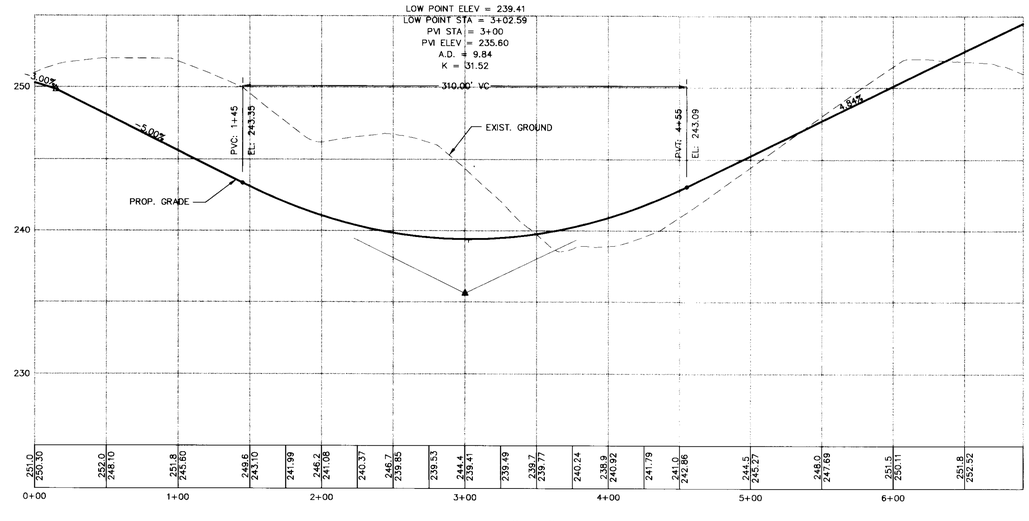
APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/20/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/21/96

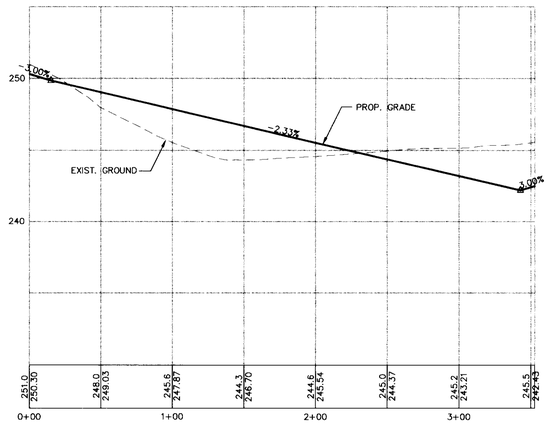
DIRECTOR — DATE 3/14/96

94044-PROF




## ROAD "8B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "8A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| project: 94044 | date JAN.96 |
|---|---|
| illustration M.P. | engineering M.P. |
| scale HOR. 1"=50' VER. 1"=5' | approval J.H. |

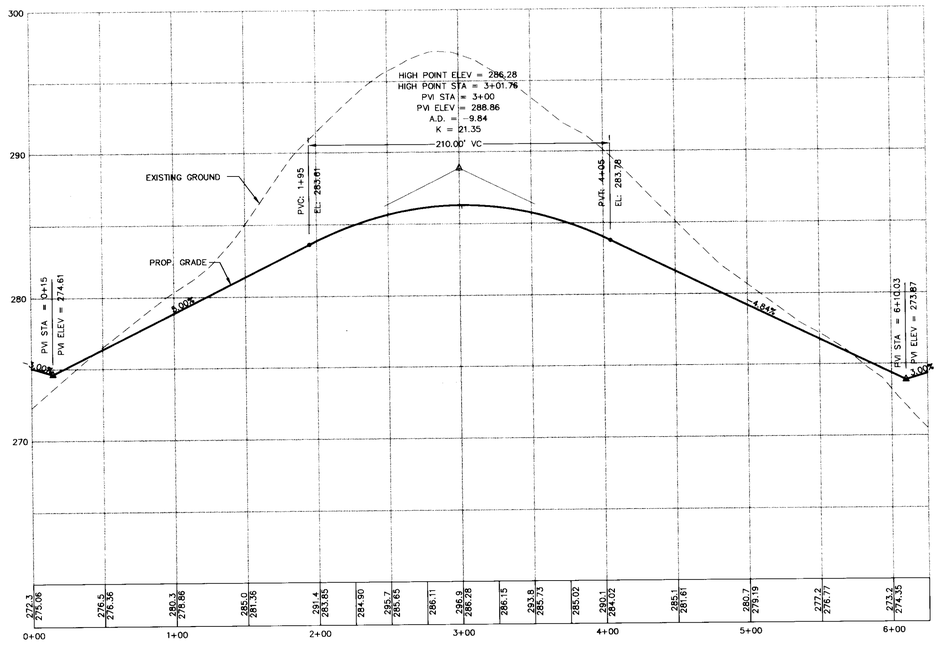
| no. | description revisions | date |
|---|---|---|

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
ROAD PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax

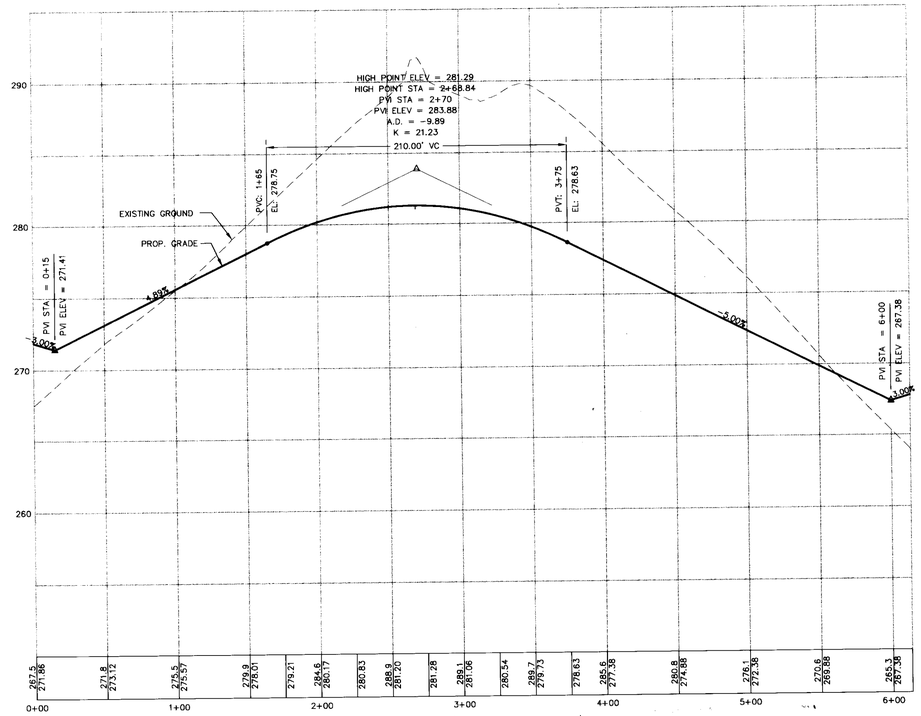


SDP-96-20



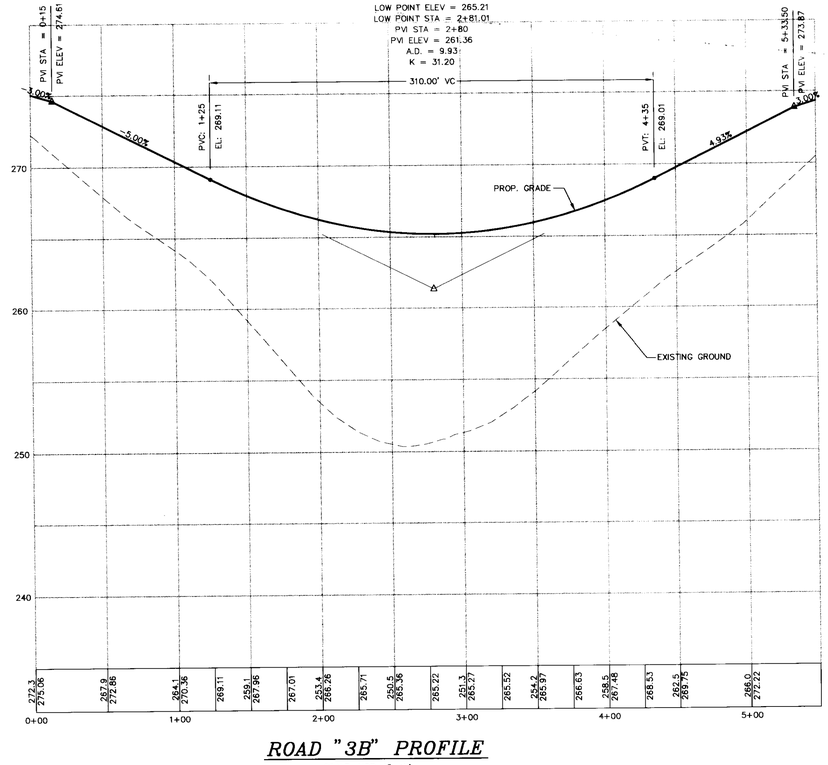

## ROAD "3A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "4A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "3B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

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HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/12/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

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| project | date |
|---|---|
| 94044 | JAN.96 |
| illustration | engineering |
| M.P. | M.P. |
| scale HOR. 1"=50' VER. 1"=5' | approval J.H. |

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT

ROAD PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
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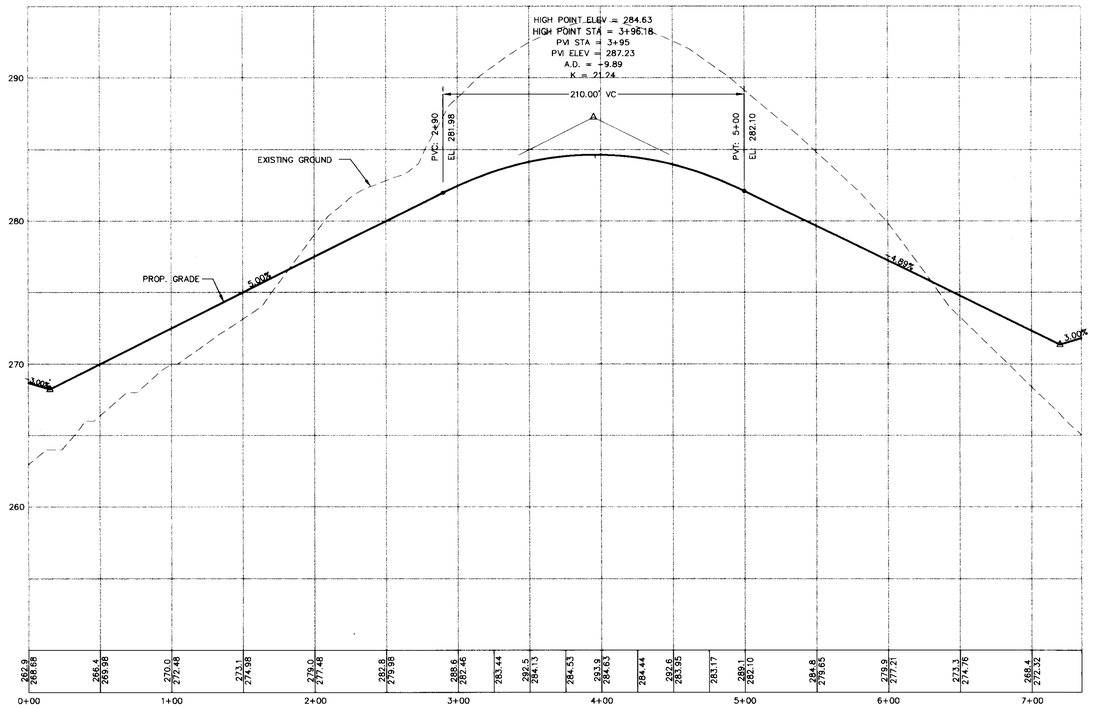
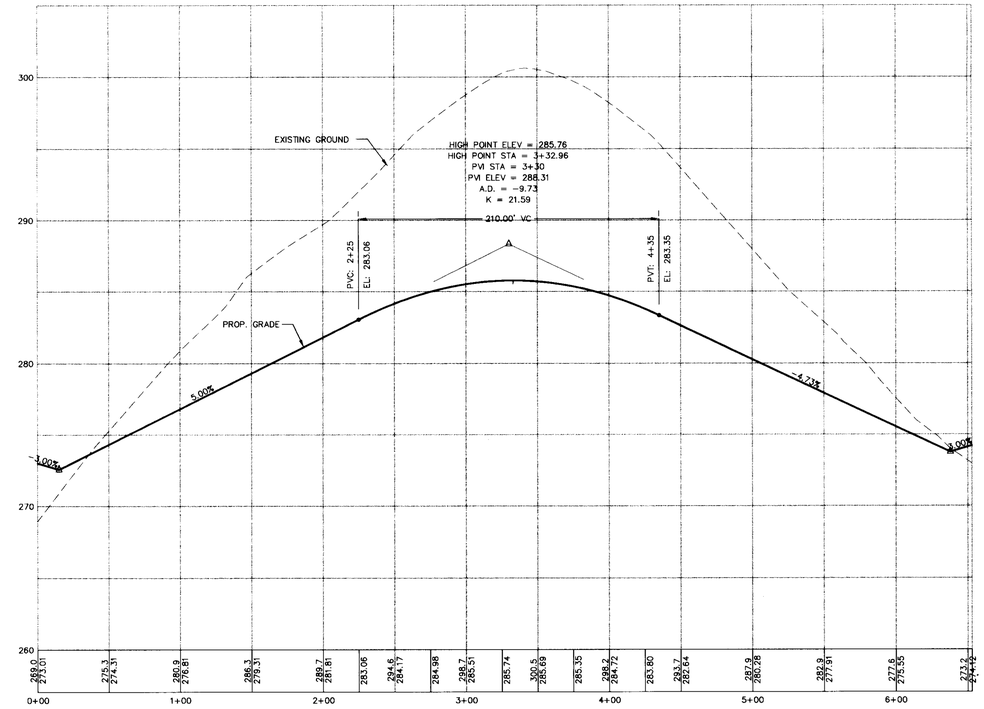
SDP-96-20

94044-PROF




## ROAD "1A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "2A" PROFILE

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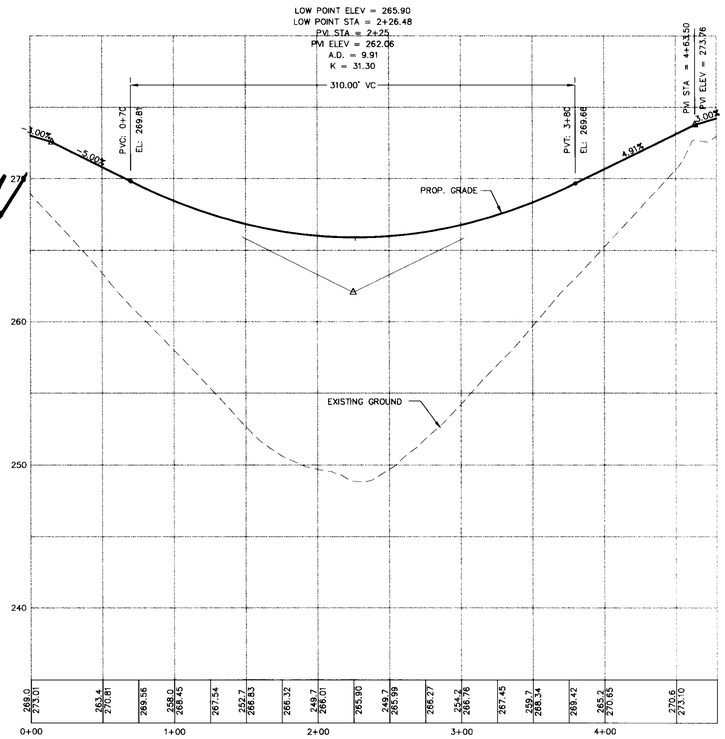
VER. 1"=5'




## ROAD "2B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

### DEVELOPERS CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1/10/96

PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

### AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

94044-PROF

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

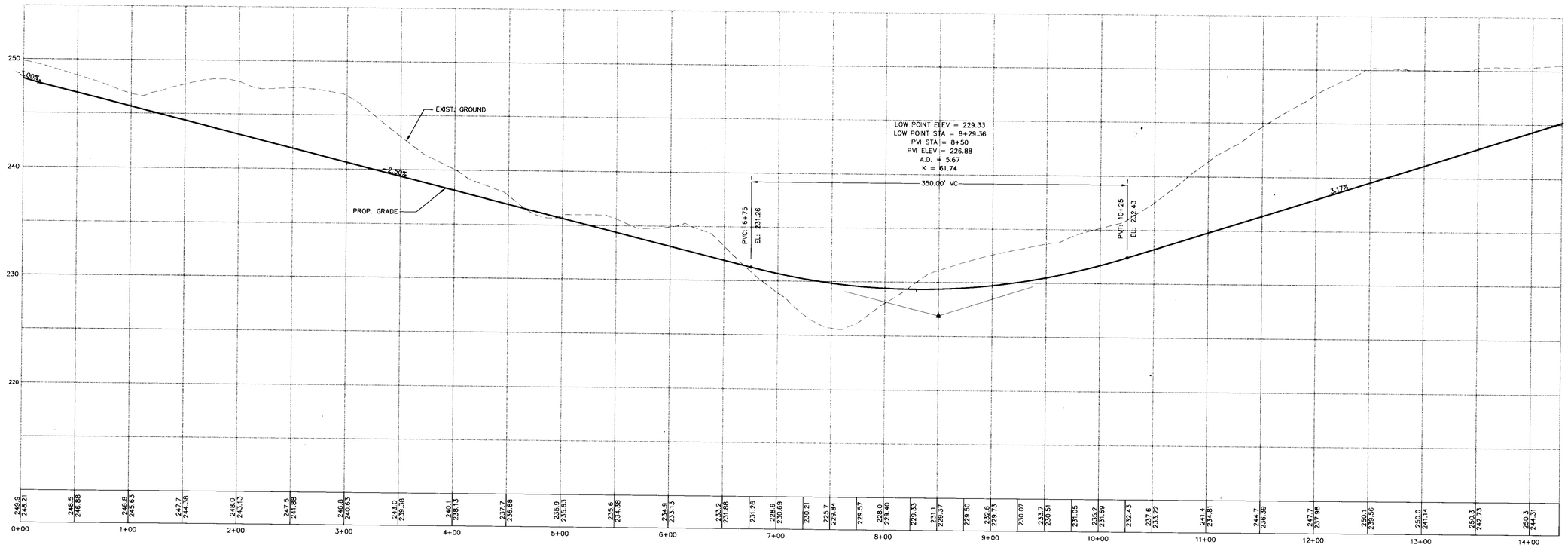
| project | date |
|---|---|
| 94044 | JAN.96 |
| illustration | engineering |
| M.P. | M.P. |
| scale | approval |
| HOR. 1"=50' VER. 1"=5' | J.H. |

| no. | description revisions | date |
|---|---|---|

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT

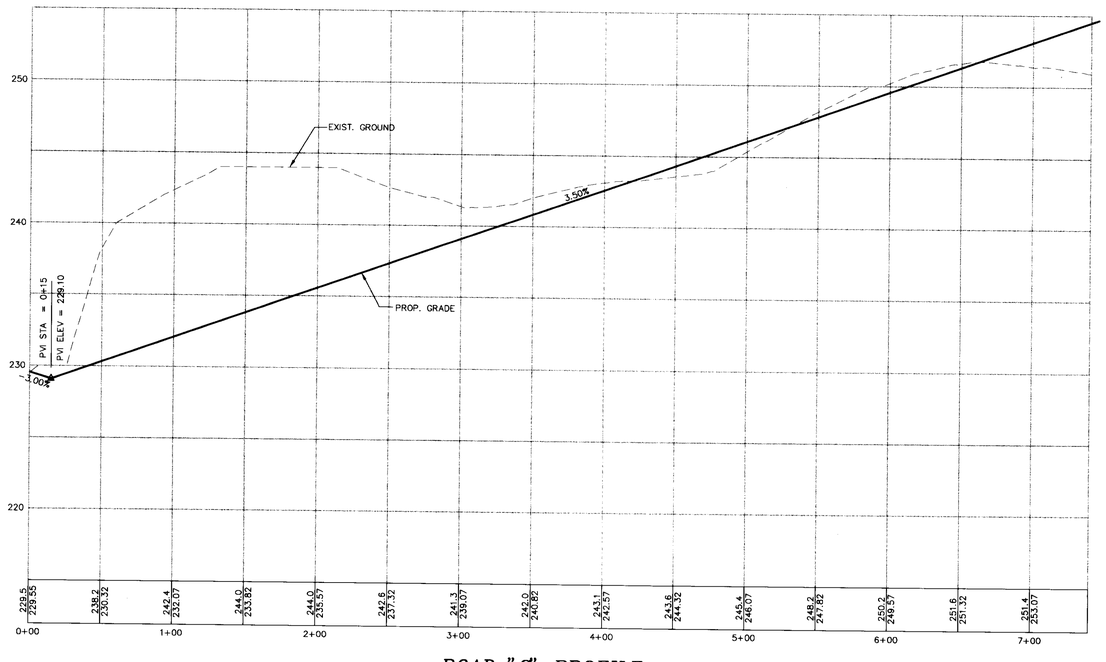
ROAD PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax




## ROAD "11" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "C" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/18/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — DATE 1/10/96

R. FRANK NICMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zielm — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Gina Fuminaro — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

94044-PROF

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

project 94044 | date JAN.96
illustration M.P. | engineering M.P.
scale HOR.:1"=50' VER.:1"=5' | approval J.H.

| no. | description | date |
|---|---|---|
| | revisions | |

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST. ELECTION DISTRICT — HOWARD COUNTY
ROAD PROFILES

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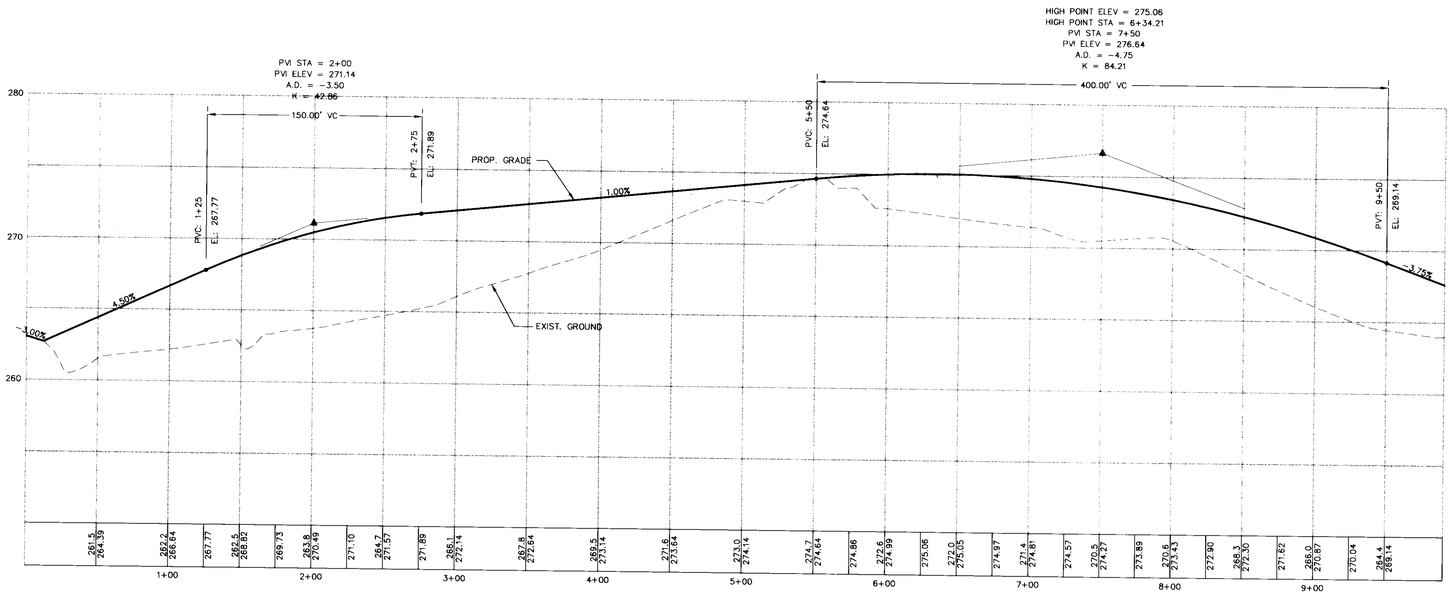
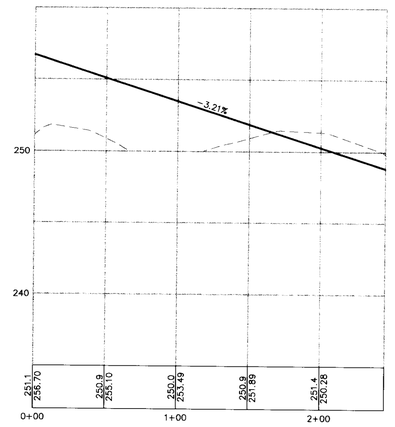
SDP-96-20



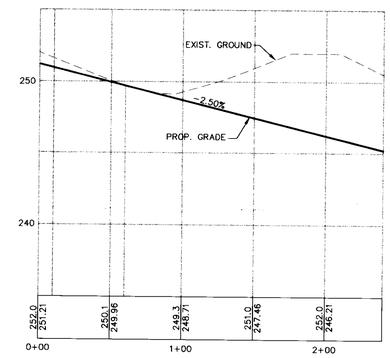

## ROAD "A" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'



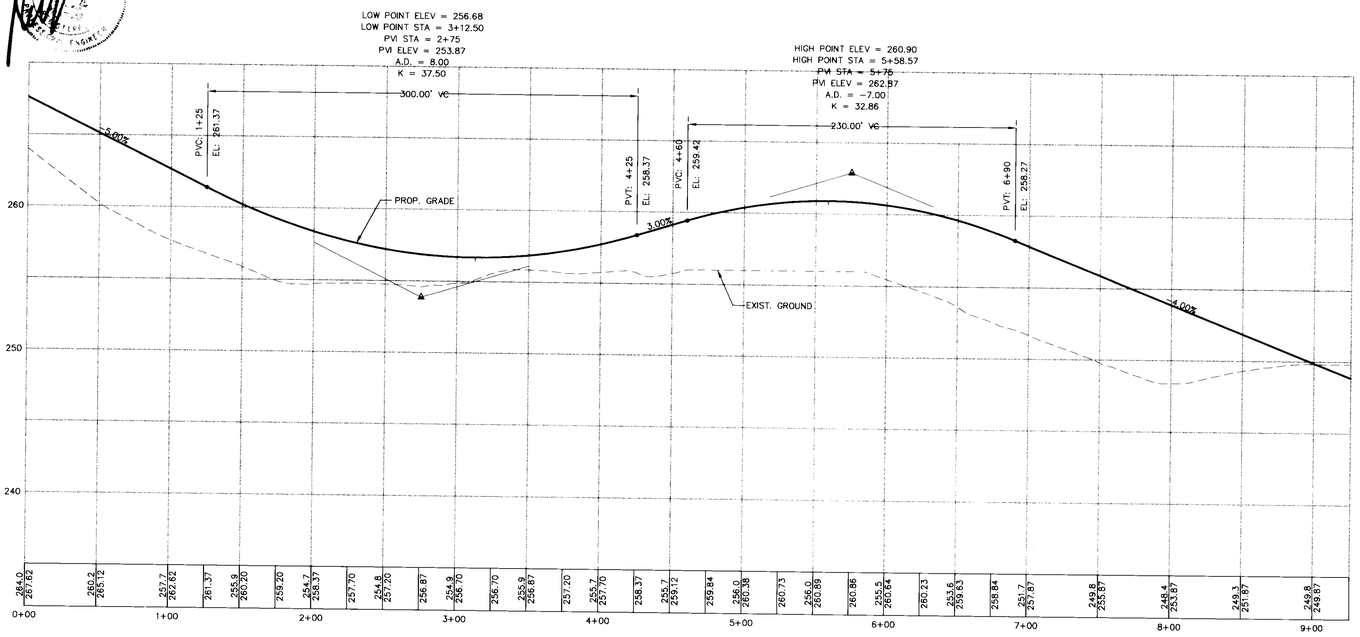

## ROAD "D" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "E" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'




## ROAD "B" PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
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C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1-18-96

R WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. ... KMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engle — 2/6/96
USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zirkin — 2/6/96
HOWARD SOIL CONSERVATION DISTRICT — DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/6/96

Gina Fruimanji — 3/12/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE

DIRECTOR — DATE 3/14/96

94044-PROF

| project | date |
|---|---|
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| M.P. | M.P. |
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| no. | description | date |
|---|---|---|
| | revisions | |

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SDP-96-20

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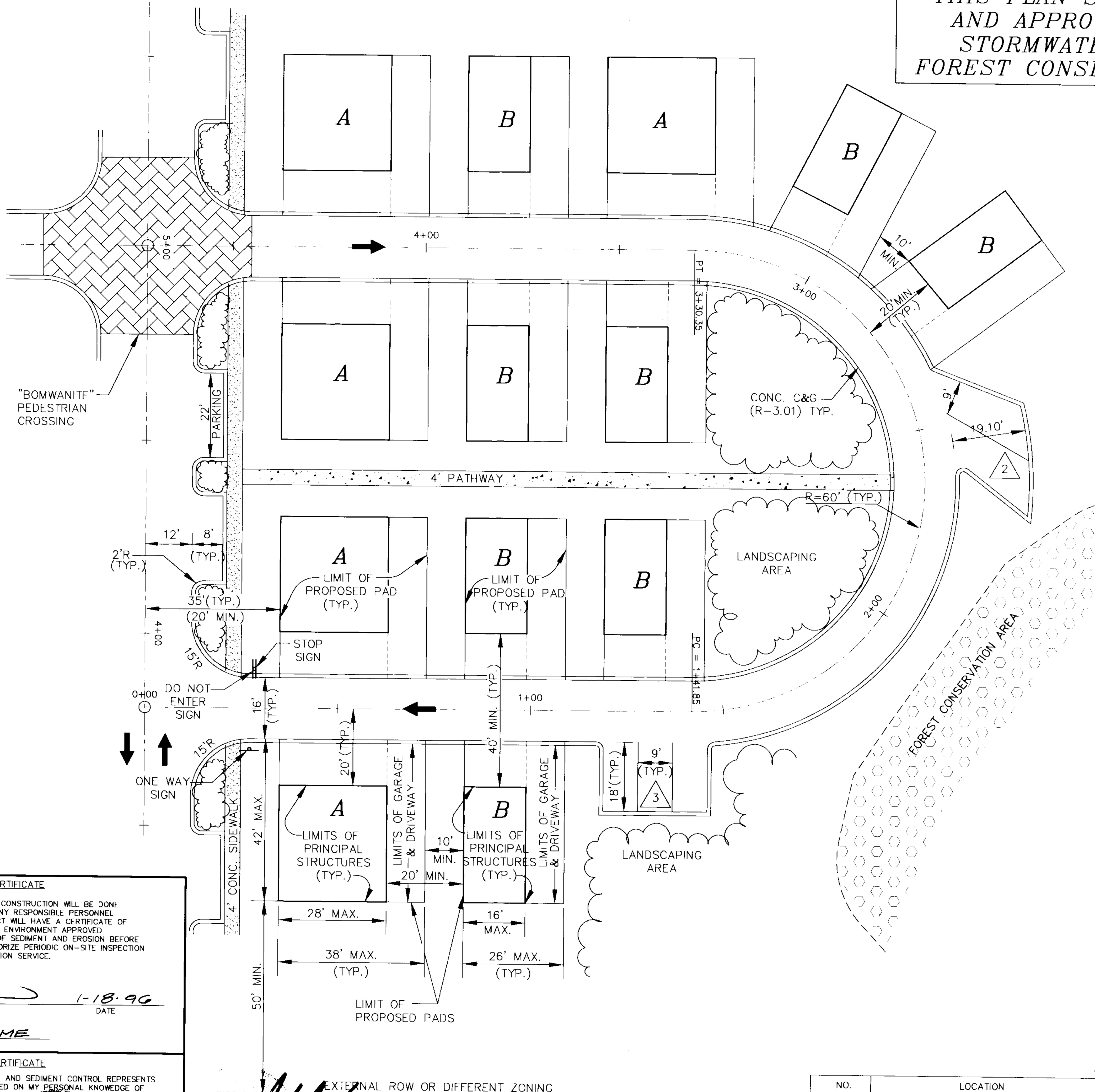
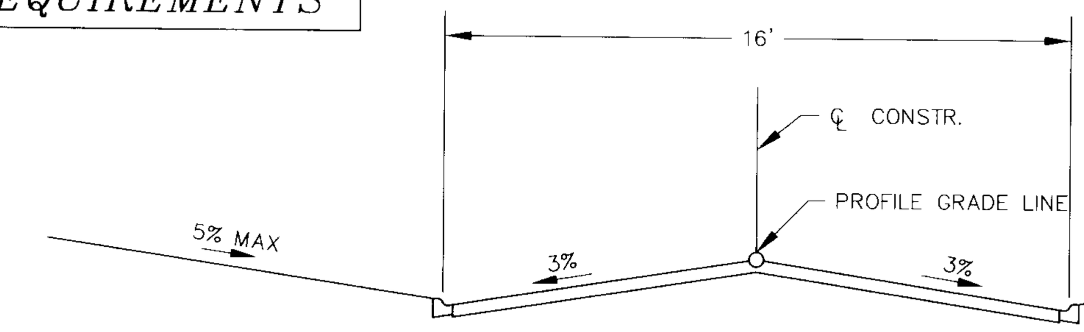



## TYPICAL PAD LAYOUT

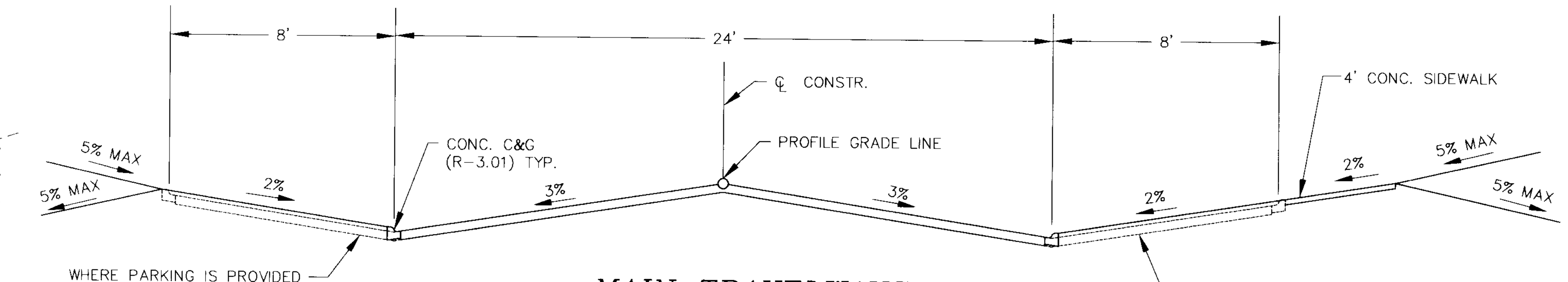
SCALE : 1"= 20'




## LOCAL TRAVELWAYS

### TYPICAL SECTION

FOR PAVING SECTION SEE STANDARD DETAIL THIS SHEET

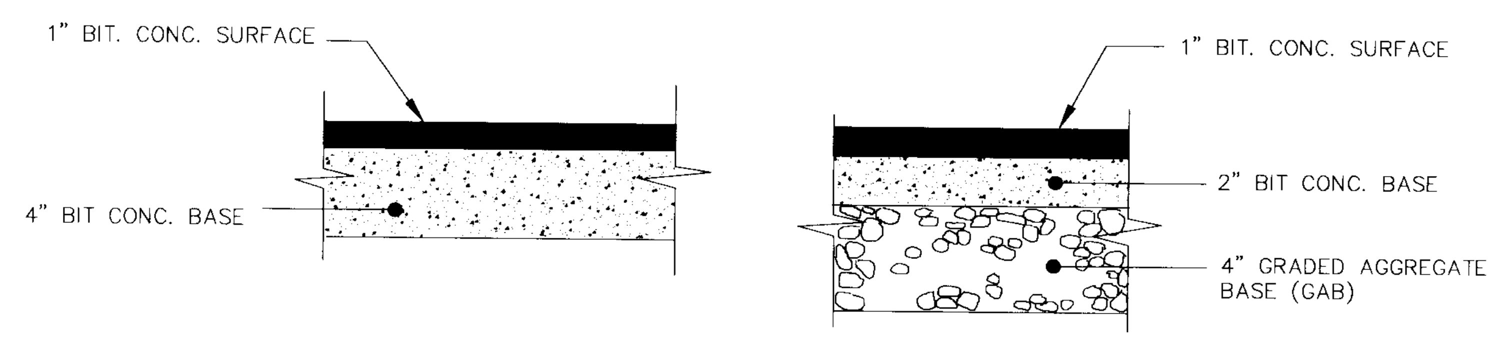



## MAIN TRAVELWAYS

### TYPICAL SECTION

FOR PAVING SECTION SEE STANDARD DETAIL THIS SHEET

N.T.S.




## PAVING SECTIONS

### P-1

N.T.S.

## NOTES:

1. ALL UNITS WHICH ARE TO BE CONSTRUCTED IN THIS DEVELOPMENT WILL BE IN CONFORMANCE WITH HUD AND THE STATE OF MARYLAND SPECIFICATIONS FOR MOBILE HOMES.
2. ALL PROPOSED PRINCIPAL STRUCTURES ARE LESS THAN 34 FT. IN HEIGHT. ALL STRUCTURES ACCESSORY TO THE PRINCIPAL STRUCTURES ARE LESS THAN 15 FT. IN HEIGHT.
3. EACH UNIT WILL HAVE A ONE (1) CAR GARAGE AND A DRIVEWAY.
4. GRADING FOR THE PADS WILL BE IN GENERAL CONFORMANCE WITH THE SITE'S MASS GRADING. ELEVATION DIFFERENCE BETWEEN FIRST FLOOR AND GRADE MUST BE A MINIMUM OF 1.5 FT AND A MAXIMUM OF 3.0'.
5. THE DEVELOPMENT IS IN CONFORMANCE WITH HOWARD COUNTY ZONING REGULATIONS FOR R-MH DISTRICT. NO VARIANCES ARE REQUIRED.
6. PAD "A" AND "B" SIZES ARE PROPOSED. PRINCIPAL STRUCTURES FOR ANY UNIT MUST BE EQUAL TO OR SMALLER THAN THE "LIMITS OF PRINCIPAL STRUCTURES" INDICATED. THE ENTIRE UNIT MUST BE EQUAL OR SMALLER THAN THE "LIMITS OF PROPOSED PADS" INDICATED.

## STRUCTURE SCHEDULE

| NO. | LOCATION | RIM ELEV. | INV. IN | INV. OUT | COMMENTS |
|---|---|---|---|---|---|
| I-1 | CL STA 0+46.98 ROAD A - 12' RIGHT | 264.27 | 251.81 | 251.71 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-1A | N 550041.7285 E 1373835.6933 | 249.44 | --- | 246.40 | TYPE K, SEE HO. CO. STD. DTL. SD 4.12 |
| I-2 | CL STA 0+46.98 ROAD A 12' LEFT | 264.29 | 256.07 | 252.35 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-3 | CL STA 0+27.00 ROAD 1A - 8' RIGHT | 268.32 | 259.95 | 259.85 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-4 | CL STA 7+07.81 ROAD 1A - 8' LEFT | 272.06 | 262.00 | 261.75 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-5 | CL STA 2+85.13 ROAD A - 12' LEFT | 272.04 | 262.48 | 262.38 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-6 | CL STA 0+27.00 ROAD 2A - 8' RIGHT | 273.78 | 264.21 | 264.11 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-7 | CL STA 4+09.46 ROAD A - 12' LEFT | 273.45 | 264.53 | 264.43 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-8 | CL STA 6+25.91 ROAD 2A - 8' LEFT | 274.48 | 266.35 | 266.10 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-9 | CL STA 0+22.00 ROAD 3A - 8' LEFT | 276.06 | --- | 268.75 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-10 | CL STA 2+26.48 ROAD 2B - 26' RIGHT | 264.43 | 259.76 | 253.00 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-11 | CL STA 2+26.48 ROAD 2B - 8' LEFT | 266.04 | --- | 260.50 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-12 | N 550570.1726 E 1373707.8198 | 259.00 | --- | 252.29 | TYPE D, SEE HO. CO. STD. DTL. SD 4.11 |
| I-13 | CL STA 2+81.01 ROAD 3B - 26' RIGHT | 264.07 | 260.35 | 251.00 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-14 | CL STA 2+81.01 ROAD 3B - 8' LEFT | 265.27 | --- | 260.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-15 | N 550801.3074 E 1373492.0633 | 263.00 | 247.79 | 247.69 | TYPE D, SEE HO. CO. STD. DTL. SD 4.11 |
| I-16 | CL STA 3+12.50 ROAD B - 30' RIGHT | 256.17 | 250.32 | 250.07 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-17 | CL STA 3+12.50 ROAD B - 12' LEFT | 256.69 | --- | 250.55 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-18 | N 550986.7262 E 1373435.9036 | 257.50 | 254.75 | 254.50 | TYPE D, SEE HO. CO. STD. DTL. SD 4.11 |
| I-18A | N 550998.4883 E 1373432.0439 | 257.50 | --- | 254.87 | TYPE D, SEE HO. CO. STD. DTL. SD 4.11 |
| I-19 | CL STA 5+86.25 ROAD 4A - 15' LEFT | 267.92 | 258.65 | 258.55 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-20 | CL STA 5+86.25 ROAD 4A - 8' RIGHT | 267.95 | 259.91 | 259.81 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-21 | CL STA 9+67.79 ROAD A - 12' LEFT | 268.51 | 260.49 | 260.39 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-22 | CL STA 0+27.00 ROAD 4A - 8' LEFT | 272.60 | 262.83 | 262.73 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-23 | CL STA 8+43.46 ROAD A - 12' LEFT | 272.79 | 263.35 | 263.25 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-24 | CL STA 5+98.03 ROAD 3A - 8' RIGHT | 274.47 | 267.90 | 267.65 | TYPE A-10, SEE HO. CO. STD. DTL. SD 4.02 |
| I-25 | CL STA 7+23.46 ROAD A - 12' LEFT | 274.25 | --- | 268.32 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-26 | CL STA 6+00.00 ROAD 5B - 8' RIGHT | 239.18 | 234.74 235.30 | 230.38 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-27 | CL STA 6+00.00 ROAD 5B - 8' LEFT | 239.23 | --- | 235.50 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-28 | CL STA 7+64.17 ROAD 5B - 8' RIGHT | 241.92 | 236.93 | 236.68 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-29 | CL STA 3+29.68 ROAD 8A - 8' RIGHT | 242.57 | 237.85 | 237.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-30 | CL STA 8+26.70 ROAD 5B - 8' RIGHT | 243.99 | 238.55 238.60 | 238.45 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-31 | CL STA 8+26.70 ROAD 5B - 8' LEFT | 243.99 | 239.10 | 239.00 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-32 | CL STA 3+32.00 ROAD 5B - 8' LEFT | 245.74 | 240.35 | 240.10 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-33 | CL STA 3+32.00 ROAD 5B - 8' RIGHT | 245.76 | --- | 240.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-34 | CL STA 3+29.68 ROAD 7 - 8' RIGHT | 248.10 | 243.59 | 243.49 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-35 | CL STA 9+36.50 ROAD 5B - 8' RIGHT | 248.63 | 244.30 | 244.05 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-36 | CL STA 2+61.68 ROAD 6 - 8' RIGHT | 253.76 | --- | 249.50 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-37 | CL STA 3+02.59 ROAD 8B - 8' LEFT | 239.48 | 232.55 | 232.30 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-38 | CL STA 3+02.59 ROAD 8B - 8' RIGHT | 239.50 | --- | 232.93 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-39 | N 551140.8313 E 1374694.6248 | 236.02 | 221.03 225.66 | 220.53 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-40 | CL STA 5+62.15 ROAD 11 - 26' RIGHT | 233.15 | --- | 228.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-41 | CL STA 8+29.36 ROAD 11 - 8' LEFT | 229.40 | 224.55 | 224.30 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-42 | CL STA 8+29.36 ROAD 11 - 8' RIGHT | 229.42 | --- | 224.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-43 | CL STA 3+21.65 ROAD 11 - 8' RIGHT | 240.06 | 226.67 | 226.42 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-44 | CL STA 3+19.36 ROAD 11 - 8' LEFT | 240.06 | 226.98 | 226.88 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-45 | CL STA 11+07.00 ROAD 11 - 8' LEFT | 235.07 | 229.70 | 228.00 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-46 | CL STA 11+07.00 ROAD 11 - 8' RIGHT | 235.09 | 230.00 | 229.90 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-47 | CL STA 14+36.32 ROAD E - 12' LEFT | 245.28 | 240.50 | 240.40 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-48 | CL STA 9+44.46 ROAD B - 12' LEFT | 248.46 | 242.42 | 242.32 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-49 | CL STA 2+28.78 ROAD D - 16.5' LEFT | 250.00 | --- | 243.42 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-50 | CL STA 1+92.42 ROAD 9B - 8' RIGHT | 236.55 | 226.72 216.64 | 213.33 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |

| NO. | LOCATION | RIM ELEV. | INV. IN | INV. OUT | COMMENTS |
|---|---|---|---|---|---|
| I-51 | CL STA 1+92.42 ROAD 9B - 8' LEFT | 236.57 | 227.20 | 227.10 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-52 | CL STA 1+17.93 ROAD 9A - 8' RIGHT | 239.62 | 233.85 | 233.60 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-53 | CL STA 1+17.93 ROAD 9A - 8' LEFT | 239.65 | --- | 234.25 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-54 | CL STA 7+04.53 ROAD 10B - 8' RIGHT | 230.07 | 220.05 217.52 | 217.34 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-55 | CL STA 7+04.53 ROAD 10B - 8' LEFT | 230.06 | 220.35 | 220.25 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-56 | CL STA 2+12.64 ROAD 10B - 8' LEFT | 227.28 | 221.40 221.10 | 221.30 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-57 | CL STA 2+12.64 ROAD 10B - 8' RIGHT | 227.09 | --- | 222.50 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-58 | CL STA 0+27.00 ROAD 10A - 8' RIGHT | 233.29 | 223.85 | 223.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-59 | CL STA 0+31.71 ROAD 10A - 8' LEFT | 233.22 | 224.15 | 224.05 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-60 | CL STA 0+46.82 ROAD C - 17' LEFT | 230.23 | 225.35 | 225.10 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-61 | CL STA 0+46.82 ROAD C - 17' RIGHT | 229.88 | --- | 225.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-62 | CL STA 4+29.08 ROAD 10B - 8' LEFT | 223.00 | 219.37 | 219.12 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| I-63 | CL STA 4+29.08 ROAD 10B - 8' RIGHT | 223.00 | --- | 219.75 | TYPE A-5, SEE HO. CO. STD. DTL. SD 4.01 |
| MH-1 | N 550316.3895 E 1373758.9483 | 246.42 | 235.89 | 234.70 | MH HO. CO. STD. DTL. G 5.01 |
| MH-1A | N 550107.0854 E 1373773.9896 | 239.50 | 234.93 | 234.83 | MH HO. CO. STD. DTL. G 5.01 |
| MH-2 | N 550352.3054 E 1373784.0136 | 253.82 | 236.89 | 236.79 | MH HO. CO. STD. DTL. G 5.01 |
| MH-3 | CL STA 2+32.35 ROAD 2B - 44' RIGHT | 252.53 | 248.00 238.62 | 238.37 | MH HO. CO. STD. DTL. G 5.01 |
| MH-4 | N 550574.9016 E 1373737.9781 | 247.35 | 240.65 242.60 | 240.55 | MH HO. CO. STD. DTL. G 5.01 |
| MH-5 | CL STA 2+79.36 ROAD 3B - 43.5' RIGHT | 252.88 | 244.77 248.38 | 244.67 | MH HO. CO. STD. DTL. G 5.01 |
| MH-6 | N 550794.8323 E 1373663.1688 | 258.35 | 246.33 | 246.23 | MH HO. CO. STD. DTL. G 5.01 |
| MH-7 | N 550767.1139 E 1373550.7133 | 263.41 | 247.01 | 246.91 | MH HO. CO. STD. DTL. G 5.01 |
| MH-8 | CL STA 1+67.25 ROAD B - 32' RIGHT | 258.61 | 251.68 249.40 | 249.30 | MH HO. CO. STD. DTL. G 5.01 |
| MH-9 | CL STA 1+46.91 ROAD B - 14.5' RIGHT | 260.00 | 253.46 253.50 | 253.21 | MH HO. CO. STD. DTL. G 5.01 |
| MH-10 | CL STA 6+56.04 ROAD 5B - 12.5' RIGHT | 239.94 | 235.53 | 235.43 | MH HO. CO. STD. DTL. G 5.01 |
| MH-11 | N 551076.6162 E 1374693.0767 | 236.27 | 228.50 219.71 | 214.32 | MH HO. CO. STD. DTL. G 5.01 |
| MH-12 | CL STA 3+59.25 ROAD 8B - 14' LEFT | 240.02 | 231.36 | 231.26 | MH HO. CO. STD. DTL. G 5.01 |
| MH-13 | CL STA 4+74.70 ROAD 11 - 24' RIGHT | 235.25 | 226.95 222.45 | 222.35 | MH HO. CO. STD. DTL. G 5.01 |
| MH-14 | CL STA 8+91.08 ROAD 11 - 12' RIGHT | 229.90 | 223.85 | 223.75 | MH HO. CO. STD. DTL. G 5.01 |
| MH-15 | N 550818.1454 E 1374600.7246 | 236.47 | 212.88 | 212.78 | MH HO. CO. STD. DTL. G 5.01 |
| MH-16 | CL STA 1+64.20 ROAD 9B - 3' LEFT | 236.47 | 228.00 | 227.90 | MH HO. CO. STD. DTL. G 5.01 |
| MH-17 | CL STA 0+93.66 ROAD 9A - 3' RIGHT | 239.79 | 233.10 | 233.00 | MH HO. CO. STD. DTL. G 5.01 |
| MH-18 | CL STA 5+33.62 ROAD 10B - 16.5' RIGHT | 224.19 | 218.51 | 218.41 | MH HO. CO. STD. DTL. G 5.01 |
| MH-19 | N 550674.2161 E 1374654.7107 | 234.32 | 217.02 | 216.92 | MH HO. CO. STD. DTL. G 5.01 |
| ES1 | N 550134.7079 E 1373800.1758 | --- | 234.00 | --- | 24", HO. CO. STD. DTL. D 5.61 |
| ES2 | N 550179.2221 E 1373791.5599 | --- | 234.00 | --- | 27", HO. CO. STD. DTL. D 5.61 |
| ES3 | N 550487.6152 E 1374059.8995 | --- | 230.00 | --- | 21", HO. CO. STD. DTL. D 5.61 |
| ES4 | N 550994.1056 E 1374814.4148 | --- | 212.00 | --- | 24", HO. CO. STD. DTL. D 5.61 |
| ES5 | N 550908.9420 E 1374792.1768 | --- | 212.00 | --- | 24", HO. CO. STD. DTL. D 5.61 |
| ES6 | N 550135.2504 E 1373804.6195 | --- | 234.00 | --- | 15", HO. CO. STD. DTL. D 5.61 |

OWNER/DEVELOPER

RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — 1-18-96 DATE

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDTIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — 1/16/96 DATE

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engle — USDA-NATURAL RESOURCE CONSERVATION SERVICE — 2/6/96 DATE

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm — HOWARD SOIL CONSERVATION DISTRICT. — 2/6/96 DATE

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — 3/8/96 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — 3/12/96 DATE

DIRECTOR — 3/14/96 DATE

44 DTLS.DWG

94044 | JAN 96 | SJD/MP | M.P. | AS SHOWN | J.H.

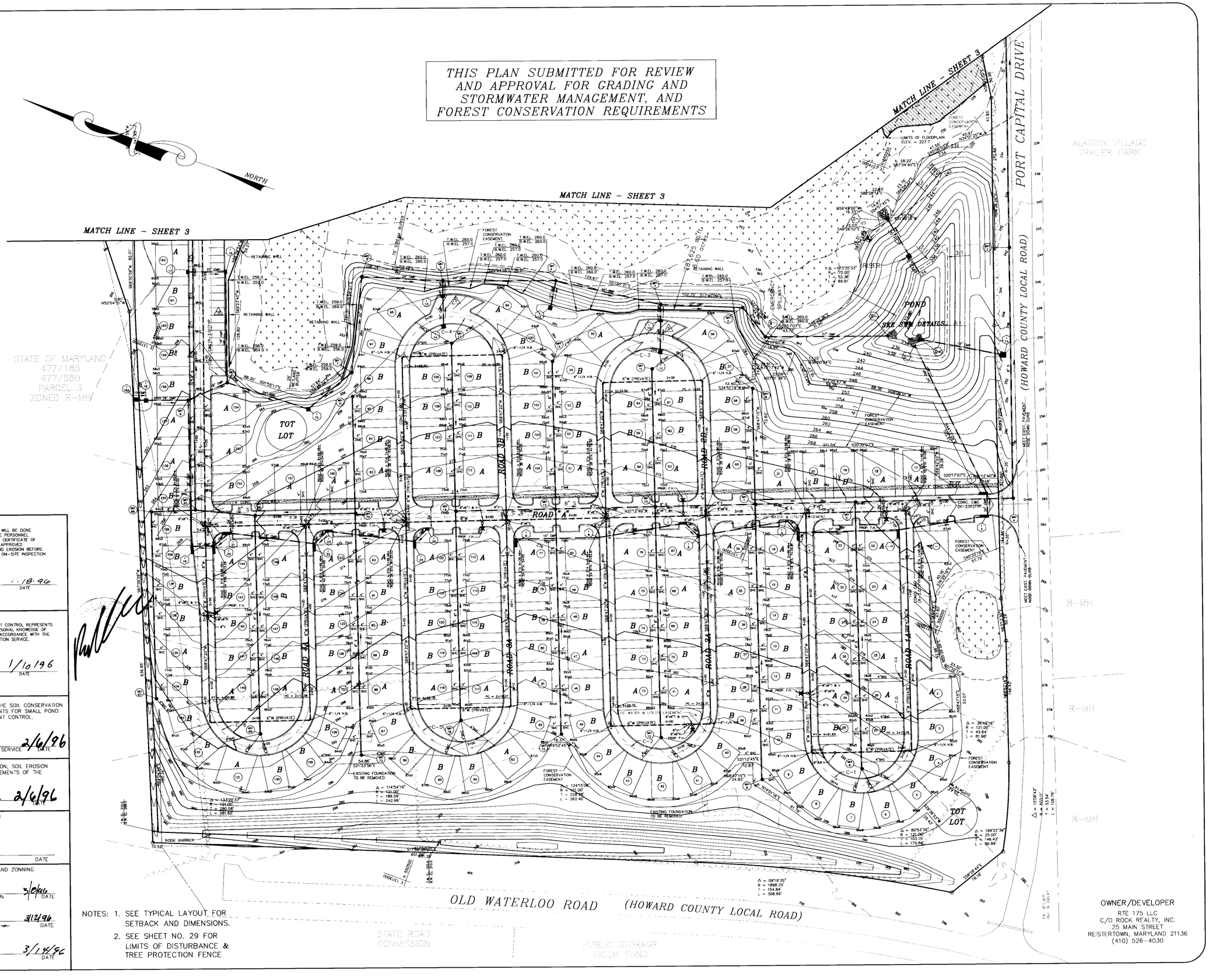
TAX MAP 43, PARCELS 4, 347 & P/O 3
**CORRIDOR ONE**
1ST ELECTION DISTRICT — HOWARD COUNTY
CONSTRUCTION DETAILS


MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax




SDP-96-20

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS




NOTES: 1. SEE TYPICAL LAYOUT FOR SETBACK AND DIMENSIONS.
2. SEE SHEET NO. 29 FOR LIMITS OF DISTURBANCE & TREE PROTECTION FENCE

**DEVELOPERS CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1-18-96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HILLMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA–NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zickefoose — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| DATE | NOV.95 |
| DRAWN BY | M.P. |
| CHECKED BY | M.P. |
| SCALE | 1"=50' |
| SHEET | J.H. |

TAX MAP 43. PARCELS 4, 347 & P/O 3
CORRIDOR ONE
HOWARD COUNTY
1ST. ELECTION DISTRICT
SITE DEVELOPMENT PLAN

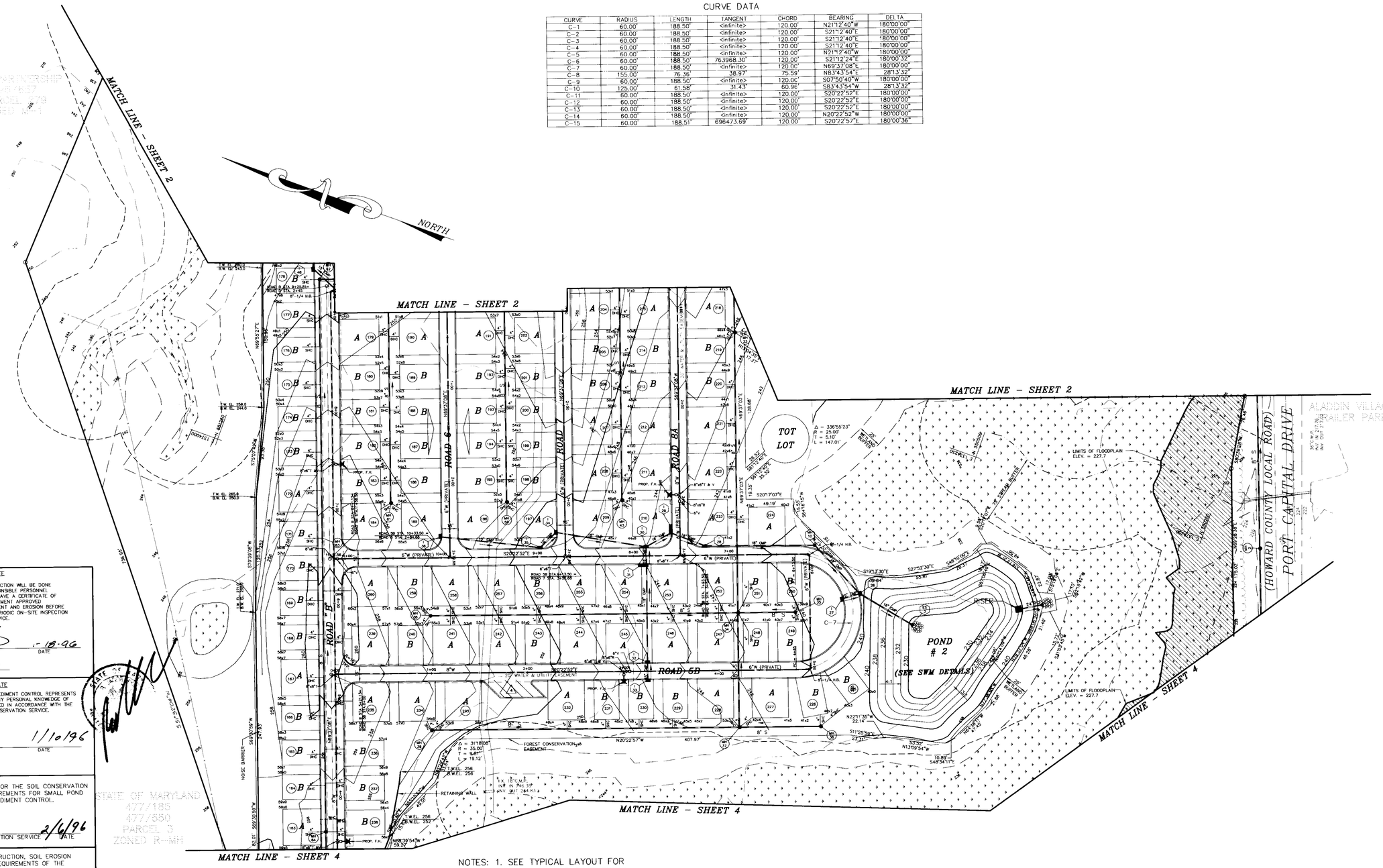
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Bal. (301) 621-5321 Wash. (410) 997-0298 Fax



SDP-96-20

## CURVE DATA

| CURVE | RADIUS | LENGTH | TANGENT | CHORD | BEARING | DELTA |
|---|---|---|---|---|---|---|
| C-1 | 60.00' | 188.50' | <infinite> | 120.00' | N21°12'40"W | 180°00'00" |
| C-2 | 60.00' | 188.50' | <infinite> | 120.00' | S21°12'40"E | 180°00'00" |
| C-3 | 60.00' | 188.50' | <infinite> | 120.00' | S21°12'40"E | 180°00'00" |
| C-4 | 60.00' | 188.50' | <infinite> | 120.00' | S21°12'40"E | 180°00'00" |
| C-5 | 60.00' | 188.50' | <infinite> | 120.00' | N21°12'40"W | 180°00'00" |
| C-6 | 60.00' | 188.50' | 76,968.30' | 120.00' | S21°12'24"E | 180°00'32" |
| C-7 | 60.00' | 188.50' | <infinite> | 120.00' | N69°37'08"E | 180°00'00" |
| C-8 | 155.00' | 76.36' | 38.97' | 75.59' | N83°43'54"E | 28°13'32" |
| C-9 | 60.00' | 188.50' | <infinite> | 120.00' | S07°50'40"W | 180°00'00" |
| C-10 | 125.00' | 61.58' | 31.43' | 60.96' | S83°43'54"W | 28°13'32" |
| C-11 | 60.00' | 188.50' | <infinite> | 120.00' | S20°22'52"E | 180°00'00" |
| C-12 | 60.00' | 188.50' | <infinite> | 120.00' | S20°22'52"E | 180°00'00" |
| C-13 | 60.00' | 188.50' | <infinite> | 120.00' | S20°22'52"E | 180°00'00" |
| C-14 | 60.00' | 188.50' | <infinite> | 120.00' | N20°22'52"W | 180°00'00" |
| C-15 | 60.00' | 188.51' | 696473.69' | 120.00' | S20°22'57"E | 180°00'36" |




NOTES: 1. SEE TYPICAL LAYOUT FOR SETBACK AND DIMENSIONS
2. SEE SHEET NO. 28 FOR LIMITS OF DISTURBANCE.

### DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1-18-96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

### ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

### AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

94044 | JAN.96 | M.P. | M.P. | 1"=50' | J.H.

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.

NOTES: 1. SEE TYPICAL LAYOUT FOR SETBACK & DIMENSIONS.

2. SEE SHEET NO. 27 FOR LIMITS OF DISTURBANCE & TREE PROTECTION FENCE.

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/19/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. JACOB HIKMAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zichon — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Gina Trummary — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| 94044 | JAN 96 |
| M.P. | M.P. |
| 1"=50' | J.H. |

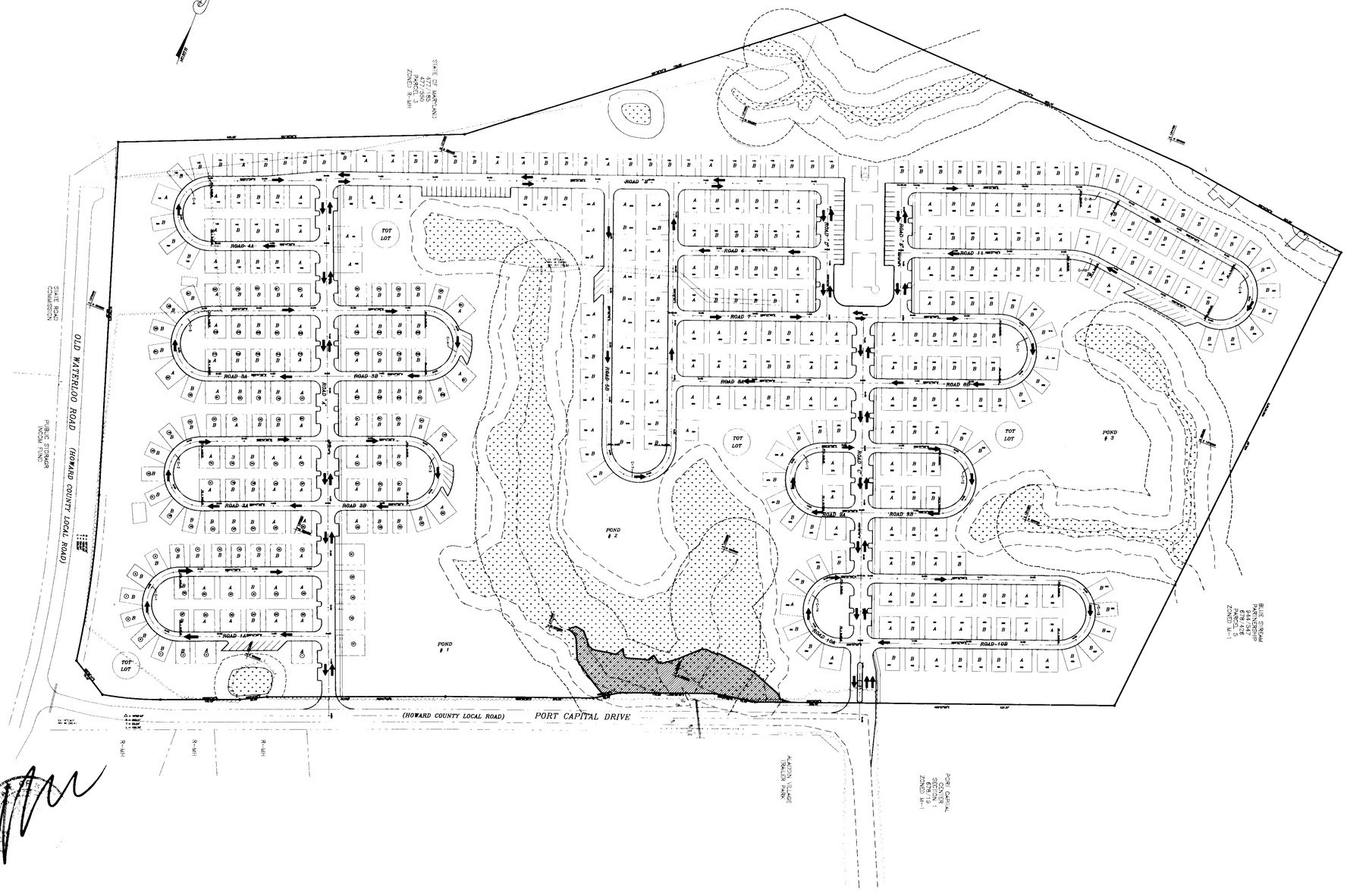
1 ADD NOISE BERM — 3-9-98

TAX MAP 43, PARCELS 4, 347 & P/O 3
CORRIDOR ONE
1ST ELECTION DISTRICT — HOWARD COUNTY
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



SDP-96-20




## DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF DEVELOPER — DATE 1/17/96

R. WAYNE NEWSOME
PRINTED NAME OF DEVELOPER

## ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS. I ALSO CERTIFY THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

SIGNATURE OF ENGINEER — DATE 1/10/96

R. [illegible] MAT
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler — USDA-NATURAL RESOURCE CONSERVATION SERVICE — DATE 2/6/96

THIS PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION END SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zirkin — HOWARD SOIL CONSERVATION DISTRICT — DATE 2/6/96

AS BUILT CERTIFICATION

ENGINEER'S SIGNATURE — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 3/8/96

Gina Drummond — CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/12/96

DIRECTOR — DATE 3/14/96

THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR GRADING AND STORMWATER MANAGEMENT, AND FOREST CONSERVATION REQUIREMENTS

OWNER/DEVELOPER
RTE 175 LLC
C/O ROCK REALTY, INC.
25 MAIN STREET
REISTERTOWN, MARYLAND 21136
(410) 526-4030

| | |
|---|---|
| 94044 | JAN 96 |
| M.P. | M.P. |
| | 1"=100' |

# TAX MAP 43, PARCEL 4, 347 & P/O 3
# CORRIDOR ONE
HOWARD COUNTY
1ST ELECTION DISTRICT
## TRAFFIC CIRCULATION PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax



SDP-96-20