

| SHEET INDEX | |
|-------------|---|
| SHEET No. | SHEET |
| 1 | TITLE SHEET |
| 2 | STONEHOUSE DR., GAITHER HOLLOW CT. & MILLERS WAY DR. PLAN & PROFILE |
| 3 | MILLERS WAY DRIVE PLAN & PROFILE |
| 4 | MILLERS WAY DRIVE PROFILE & TYPICAL ROAD SECTIONS |
| 5 | WATER QUALITY, STREET TREE, GRADING & SEDIMENT CONTROL PLAN |
| 6 | WATER QUALITY, STREET TREE, GRADING & SEDIMENT CONTROL PLAN |
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| 9 | STORM DRAIN PROFILES |
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| 13 | WATER QUALITY NOTES AND DETAILS |

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. Javelle 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Condy Hamilton 6/12/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John Dammann 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FINAL ROAD CONSTRUCTION AND GRADING PLANS DANIELS MILL OVERLOOK

SECTION 3 AREA 1

LOTS 230 THRU 276 AND PARCELS 'I' & 'J'

**(A RESUBDIVISION OF PARCELS 'E' AND 'G' - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)**

ZONED R-ED

**TAX MAP NO. 17 PART OF PARCEL 41 AND 547
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND**

GENERAL NOTES

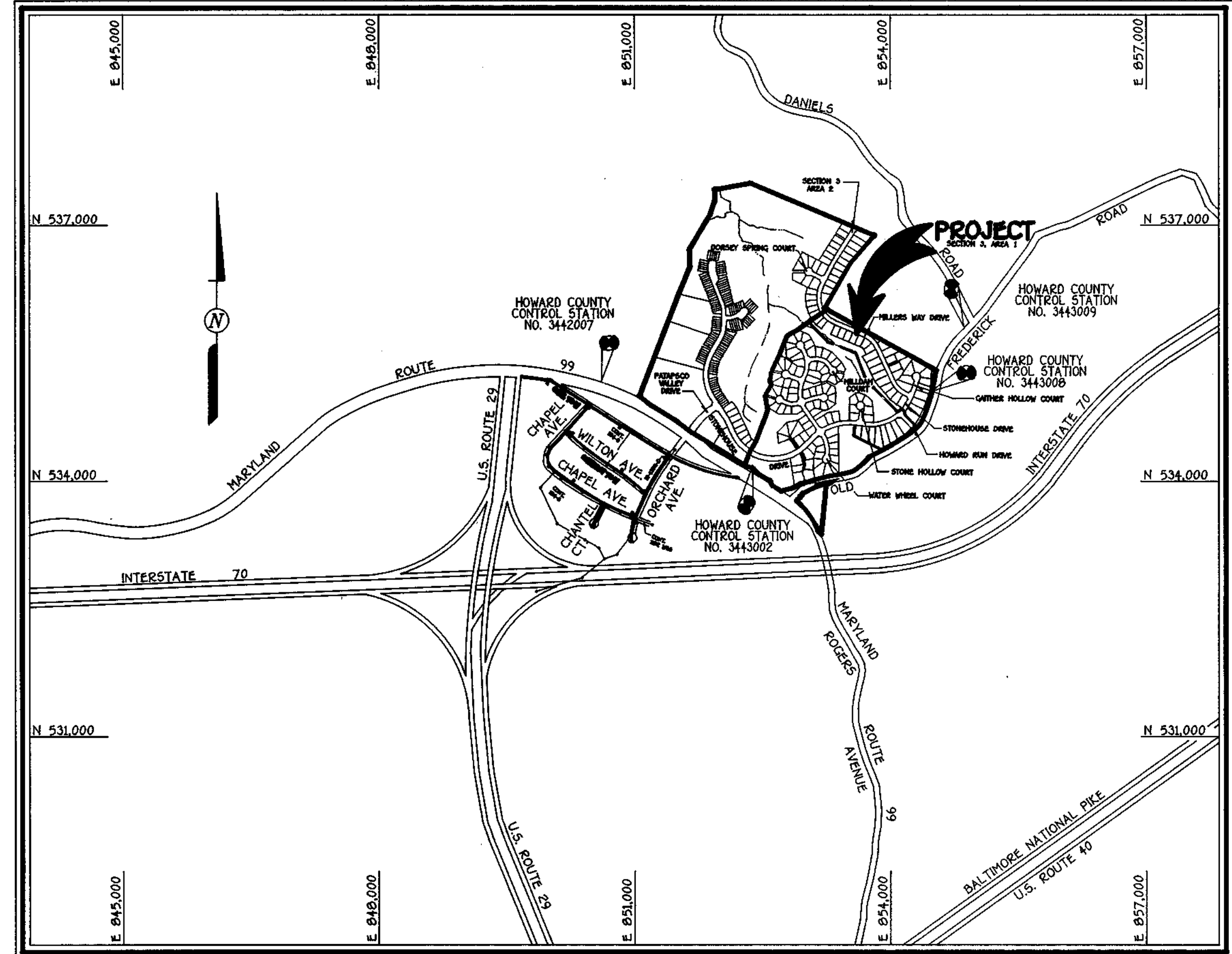
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
 - HOWARD COUNTY STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
 - MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, AS AMENDED.
 - SOIL CONSERVATION SERVICE 1983 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - SOIL CONSERVATION SERVICE 1993 MARYLAND STANDARDS AND SPECIFICATION FOR POND CONSTRUCTION (CODE 378).
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF DEPARTMENT OF PUBLIC WORKS, DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1000 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- TOPOGRAPHY SHOWN HEREON IS FROM FIELD RUN SURVEY BY FISHER, COLLINS & CARTER, INC. 2" CONTOUR INTERVAL AUGUST, 1997.
- THIS HORIZONTAL AND VERTICAL DATUM SHOWN ARE BASED ON THE FOLLOWING NAD'83 HOWARD COUNTY CONTROL STATIONS:

| | | |
|------------------------------------|--------------|-----------------|
| HOWARD COUNTY MONUMENT NO. 3443008 | N 535051.402 | ELEV. = 479.13' |
| | E 854471.468 | |
| HOWARD COUNTY MONUMENT NO. 3443009 | N 535806.602 | ELEV. = 464.01' |
| | E 854860.710 | |
| HOWARD COUNTY MONUMENT NO. 3443002 | N 534193.678 | ELEV. = 484.23' |
| | E 852269.574 | |
| HOWARD COUNTY MONUMENT NO. 3443007 | N 535080.370 | ELEV. = 470.18' |
| | E 850670.146 | |
- NOISE STUDY WAS PROVIDED BY M.A. DIRCKS AND CO., INC. AND APPROVED ON JUNE 15, 1995.
- FOREST DELINEATION AND WAS PROVIDED BY M.A. DIRCKS AND CO., INC. DATED JUNE, 1993. EXISTING FOREST CONSERVATION PER PLAT 12765.
- THE 100 YR. FLOODPLAIN AS SHOWN ON THESE PLANS ARE BASED ON THE FLOODPLAIN STUDY THAT WAS PROVIDED BY FISHER, COLLINS & CARTER, INC.
- THE WETLANDS STUDY WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS UNDER 5-95-10 JUNE 15, 1995.
- THE TRAFFIC STUDY WAS PROVIDED BY THE TRAFFIC GROUP AND APPROVED ON JUNE 15, 1995.
- THE SOILS INVESTIGATION REPORT WAS PREPARED BY G.T.A. INC. ON NOVEMBER 1995.
- THE SKETCH PLAN 5-95-10 WAS APPROVED ON 6/15/95. PRELIMINARY PLANS WERE WAIVED UNDER WP-97-02 ON AUGUST 12, 1996.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THEIR PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)".
- A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS DEVELOPMENT.
- EXISTING UTILITIES ARE BASED ON CONTRACT 14-3500-D & 14-3501-D.
- SECTION 16.116(a) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PROHIBITS CLEARING, GRADING OR CONSTRUCTION ACTIVITY WITHIN THE REQUIRED WETLAND OR STREAM BANK BUFFERS. A WAIVER WP-95-14 HAS BEEN APPROVED FOR GRADING WITHIN THE STREAM BUFFER AND WETLAND BUFFER ON APRIL 3, 1995.
- QUANTITY CONTROL, STORMWATER MANAGEMENT ANALYSIS WAS APPROVED ON APRIL 27, 1996 UNDER F-96-120. WATER QUALITY IS PROVIDED BY SHALLOW MARSH WATER QUALITY FACILITY #7 #10 TO BE PRIVATELY OWNED & MAINTAINED BY THE HOMEOWNER'S ASSOC.
- LETTER OF AUTHORIZATION FOR DISTURBANCE IN WETLAND AND STREAM BUFFER IS 95-NI-101/19950807.

| STREET LIGHT CHART | | | | |
|--------------------|----------------------|---------|---------|--|
| DWG. No. | STREET NAME | STATION | OFF-SET | FIXTURE/POLE TYPE |
| 2 | MILLERS WAY DRIVE | 2+87 | 16'L | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 7+58 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 11+52 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 2 | GAITHER HOLLOW COURT | 0+30 | 18'L | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 15+52 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |

| TRAFFIC CONTROL SIGNS | | | | |
|-----------------------|---------|--------|----------------|-----------|
| STREET NAME | STATION | OFFSET | POSTED SIGN | SIGN CODE |
| MILLERS WAY DRIVE | 0+38 | 15'L | STOP | R1-1 |
| MILLERS WAY DRIVE | 1+00 | 15'R | SPEED LIMIT 30 | R2-1 |
| MILLERS WAY DRIVE | 11+00 | 15'R | SPEED LIMIT 30 | R2-1 |
| MILLERS WAY DRIVE | 12+40 | 15'L | SPEED LIMIT 30 | R2-1 |

| ROAD CLASSIFICATION CHART | | |
|---------------------------|----------------|-----------|
| ROAD NAME | CLASSIFICATION | R/W WIDTH |
| GAITHER HOLLOW COURT | CUL-DE-SAC | 50' |
| STONEHOUSE DRIVE | LOCAL ROAD | 50' |
| MILLERS WAY DRIVE | LOCAL ROAD | 50' |

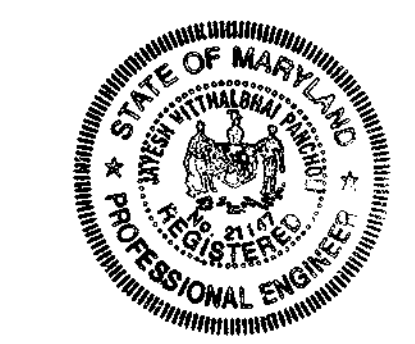


VICINITY MAP
SCALE: 1" = 1200'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 8022 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410-661-2255

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATTN: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705 - 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

DEVELOPER
 THE RYLAND GROUP, INC.
 ATTN: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705 - 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093



Jayesh Pancholi 11-14-97
 JAYESH V. PANCHOLI DATE

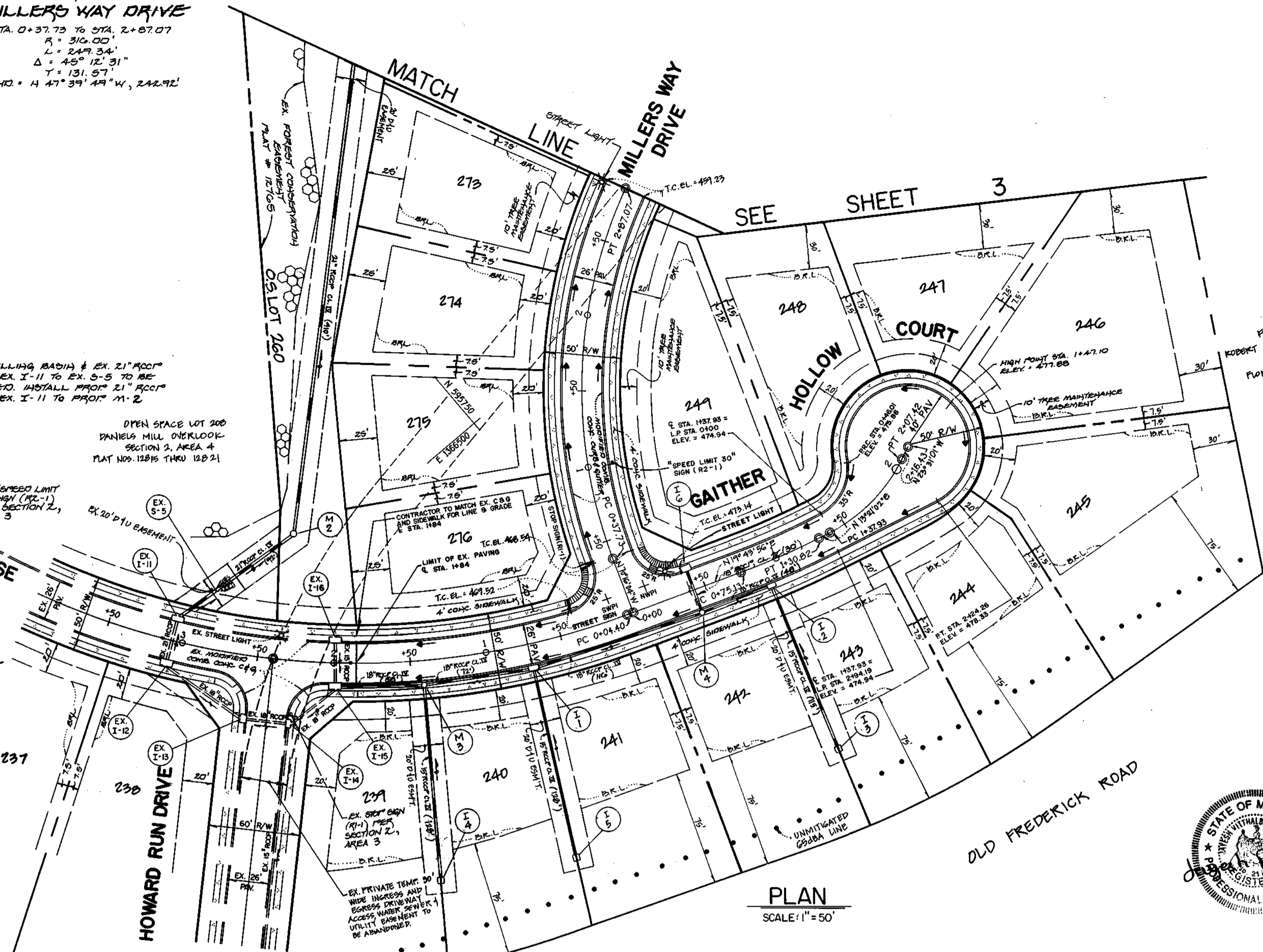
DANIELS MILL OVERLOOK
 SECTION 3 AREA 1
 LOTS 230 THRU 276 AND PARCELS 'I' & 'J'
 ZONED: R-ED
 (A RESUBDIVISION OF PARCELS 'E' AND 'G' - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 TAX MAP No. 17 PART OF PARCEL 41 AND 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 1 OF 13

**E CURVE DATA
MILLERS WAY DRIVE**
 STA. 0+37.73 TO STA. 2+57.07
 R = 310.00'
 L = 247.34'
 Δ = 43° 12' 31"
 T = 131.57'
 CHD = H 47° 39' 49" W, 242.92'

**E CURVE DATA
GAITHER HOLLOW COURT**
 STA. 0+76.13 TO STA. 1+30.82
 R = 503.00'
 L = 55.07'
 Δ = 00° 22' 54"
 T = 27.87'
 CHD = H 10° 32' 29" E, 55.06'

**E CURVE DATA
GAITHER HOLLOW COURT**
 STA. 1+37.73 TO STA. 2+07.42
 R = 108.00'
 L = 37.44'
 Δ = 30° 32' 00"
 T = 30.00'
 CHD = H 05° 04' 38" W, 68.30'

**E CURVE DATA
STONEHOUSE DRIVE**
 STA. 0+04.40 TO STA. 1+50.00
 R = 500.00'
 L = 193.00'
 Δ = 17° 35' 08"
 T = 77.41'
 CHD = S 20° 31' 37" W, 193.00'



PLAN
SCALE: 1" = 50'

DANIELS MILL OVERLOOK
 SECTION 3 AREA 1
 LOTS 240 THRU 276
 AND PARCELS 3 & J
 ZONING: K-ED
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

STONEHOUSE DRIVE PLAN & PROFILE
GAITHER HOLLOW COURT PLAN & PROFILE
MILLERS WAY DRIVE PLAN

DEVELOPER
 THE RYLAND GROUP
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

OWNER
 ISLAND HOMES AT HOLLIFIELD STATION, LLC
 ATTENTION: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

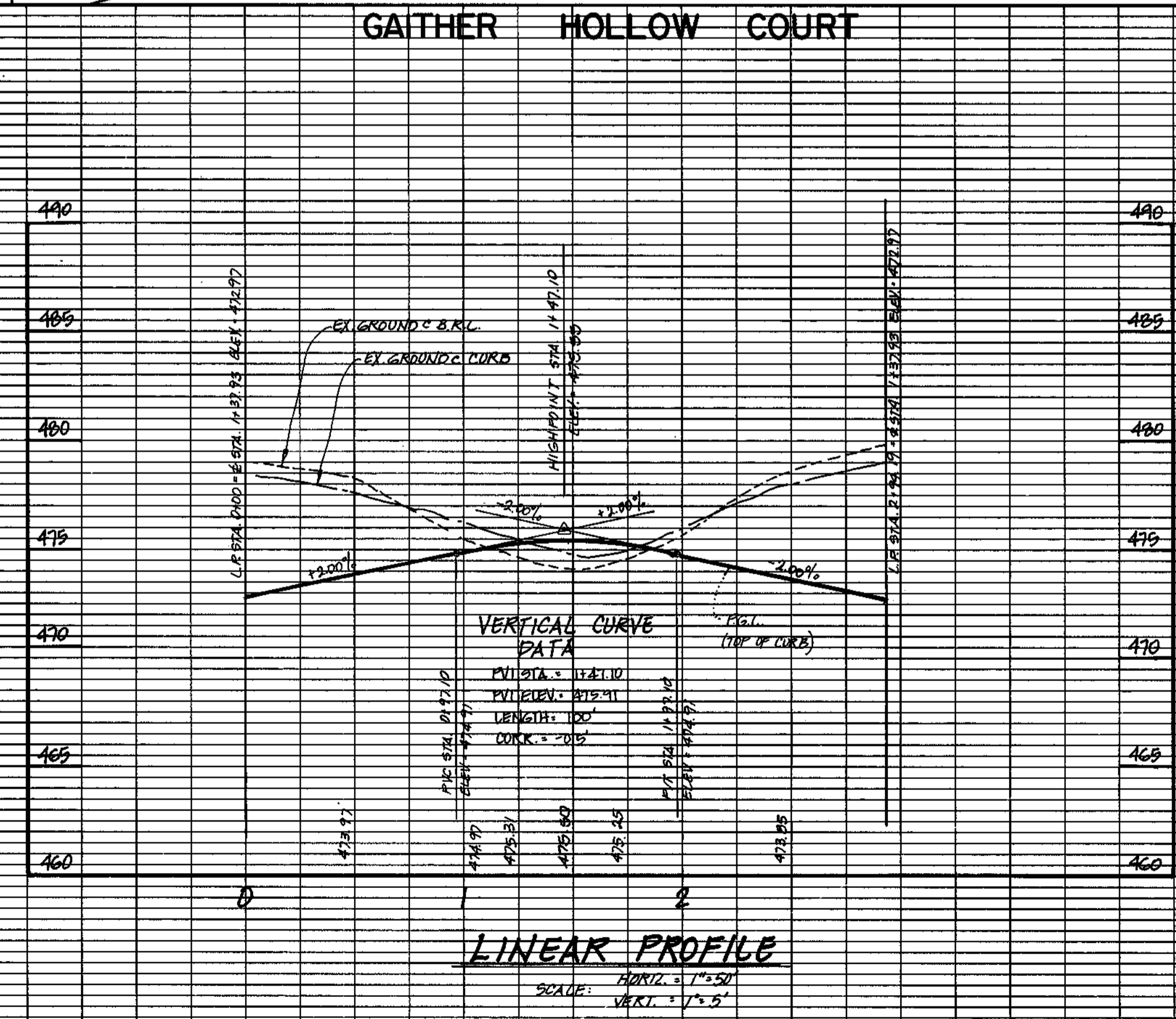
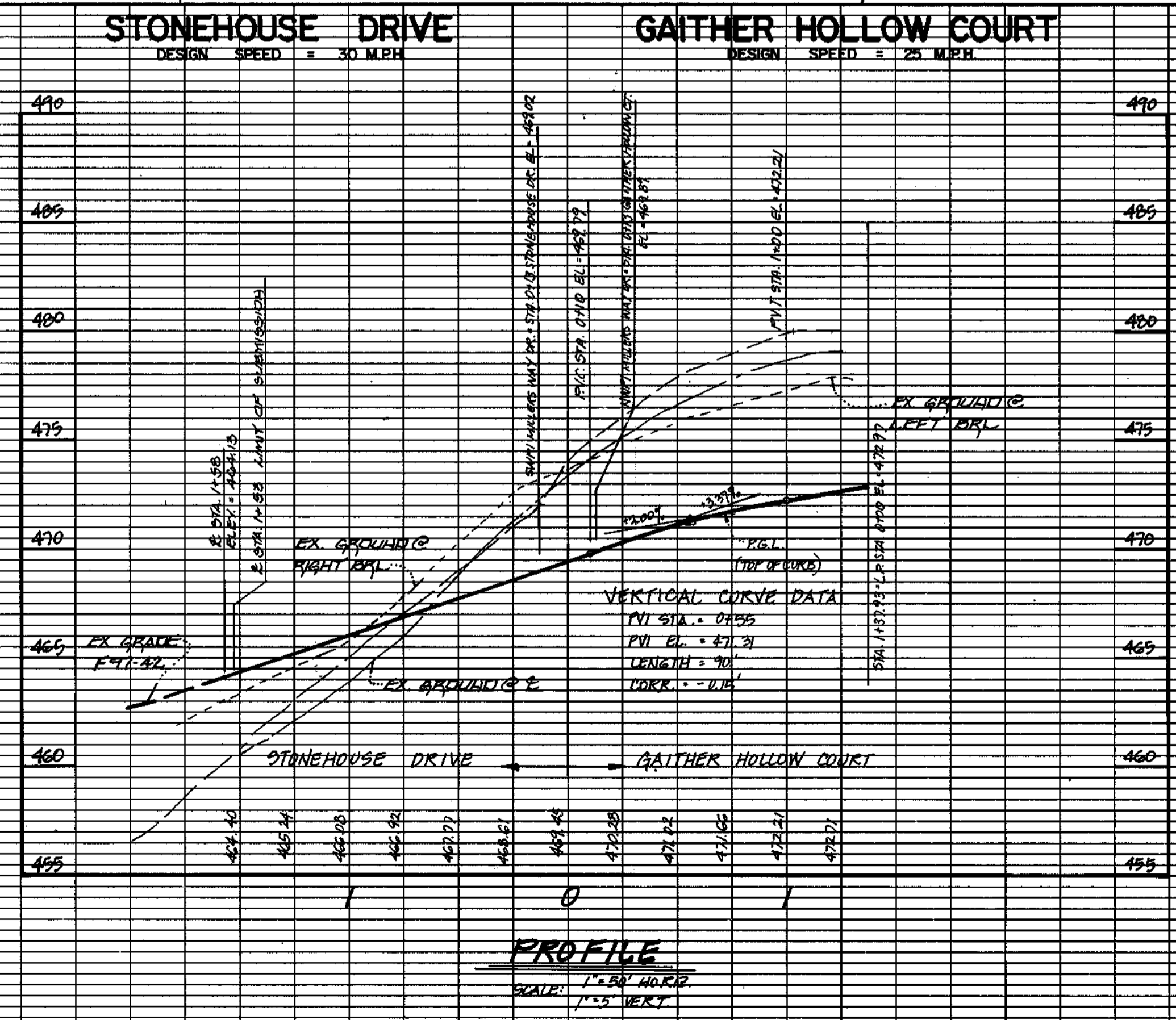
SCALE: AS SHOWN DATE: OCTOBER 1, 1997 DWG. NO. 2 OF 13
 DES. J.V.R. DRN. J.A.U., J.C.L. CHK.
FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 TEL: (410) 461-2855 FAX: (410) 750-3784

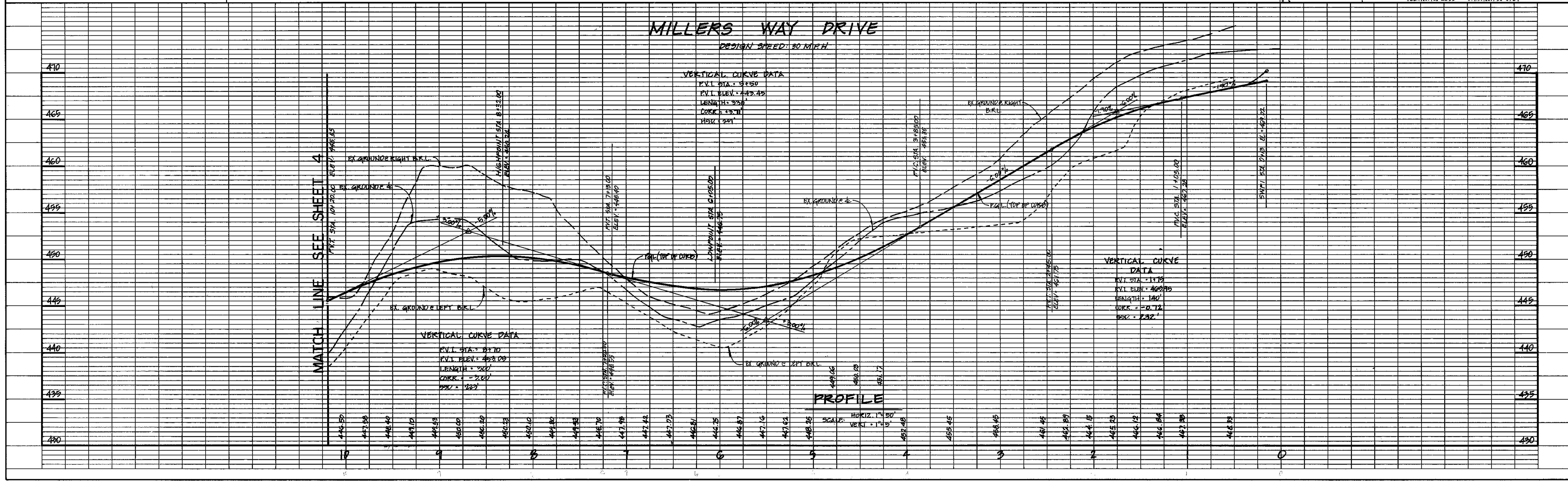
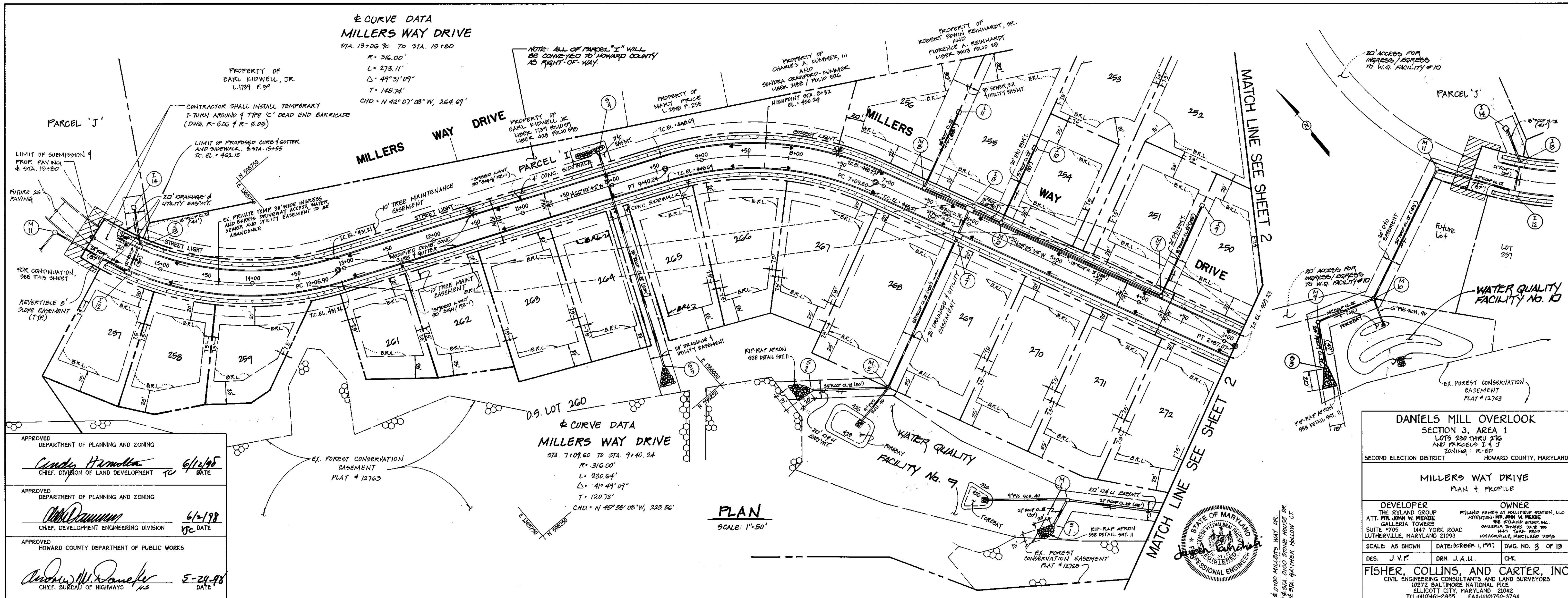


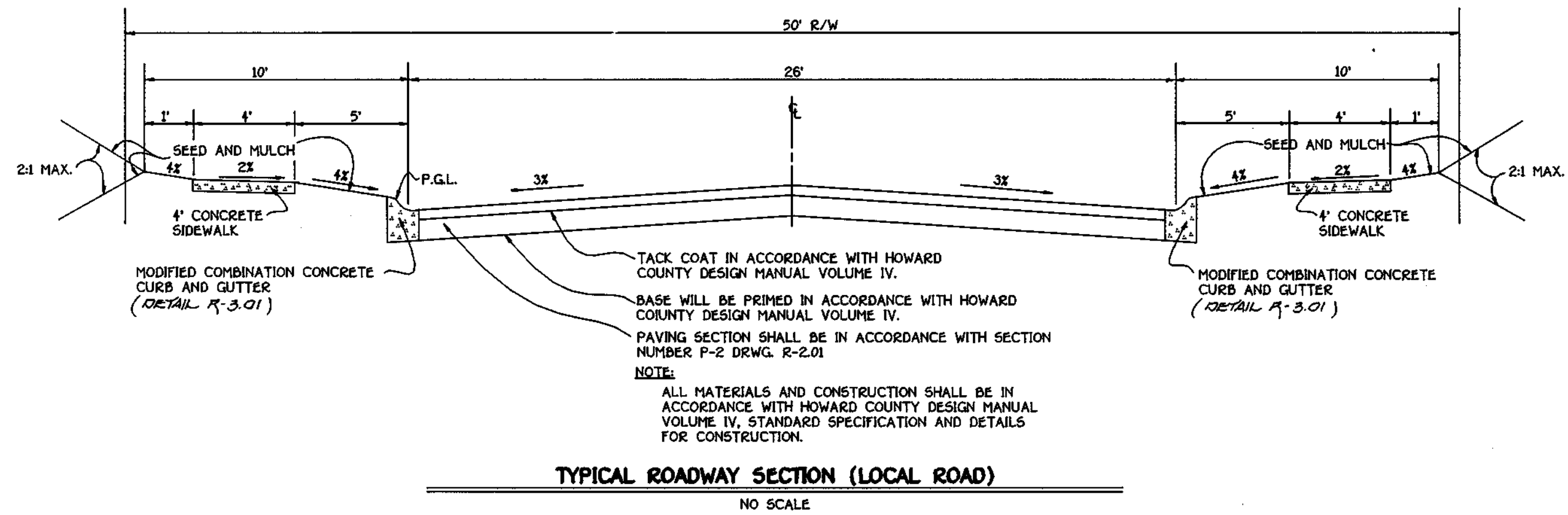
APPROVED
 DEPARTMENT OF PLANNING AND ZONING
Candy Hamilton 6/19/98
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

APPROVED
 DEPARTMENT OF PLANNING AND ZONING
W. D. Damm 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE

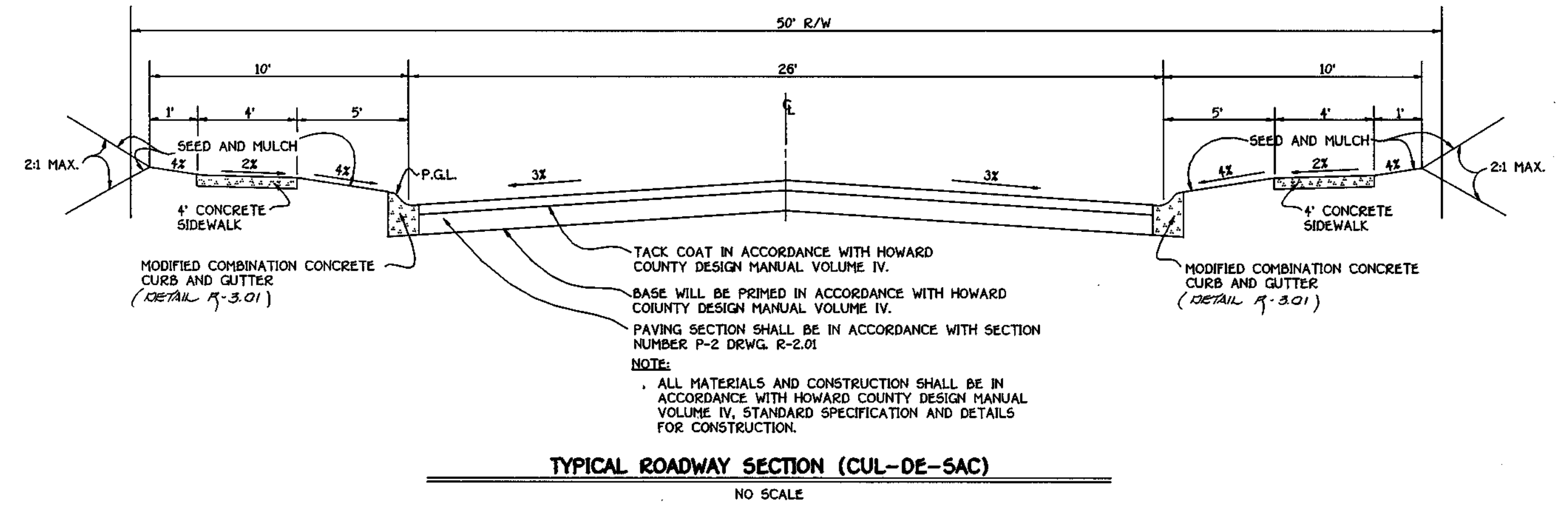
APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert M. Dwyer 5-29-98
 CHIEF, BUREAU OF HIGHWAYS
 DATE







| ROADWAY INFORMATION CHART | | | | | |
|---------------------------|----------------|--------------|--------|----------------|----------------|
| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | STATION LIMITS | PAVING SECTION |
| STONEHOUSE DRIVE | LOCAL ROAD | 30 MPH | R-ED | 0+00 TO 1+58 | P-2 |
| MILLERS WAY DRIVE | LOCAL ROAD | 30 MPH | R-ED | 0+00 TO 15+80 | P-2 |



| ROADWAY INFORMATION CHART | | | | | |
|---------------------------|----------------|--------------|--------|----------------|----------------|
| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | STATION LIMITS | PAVING SECTION |
| GAITHER HOLLOW COURT | CUL-DE-SAC | 25 MPH | R-ED | 0+00 TO 2+64.3 | P-2 |

APPROVED
DEPARTMENT OF PLANNING AND ZONING
Cande Hamada 9/18/98
CHIEF, DIVISION OF LAND DEVELOPMENT 10 DATE

APPROVED
DEPARTMENT OF PLANNING AND ZONING
W.D. Dammann 6/2/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION VJC DATE

APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Daniels 5-29-98
CHIEF, BUREAU OF HIGHWAYS 43 DATE

DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 290 THRU 316
AND PARCELS 2 & 3
ZONING: R-ED
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

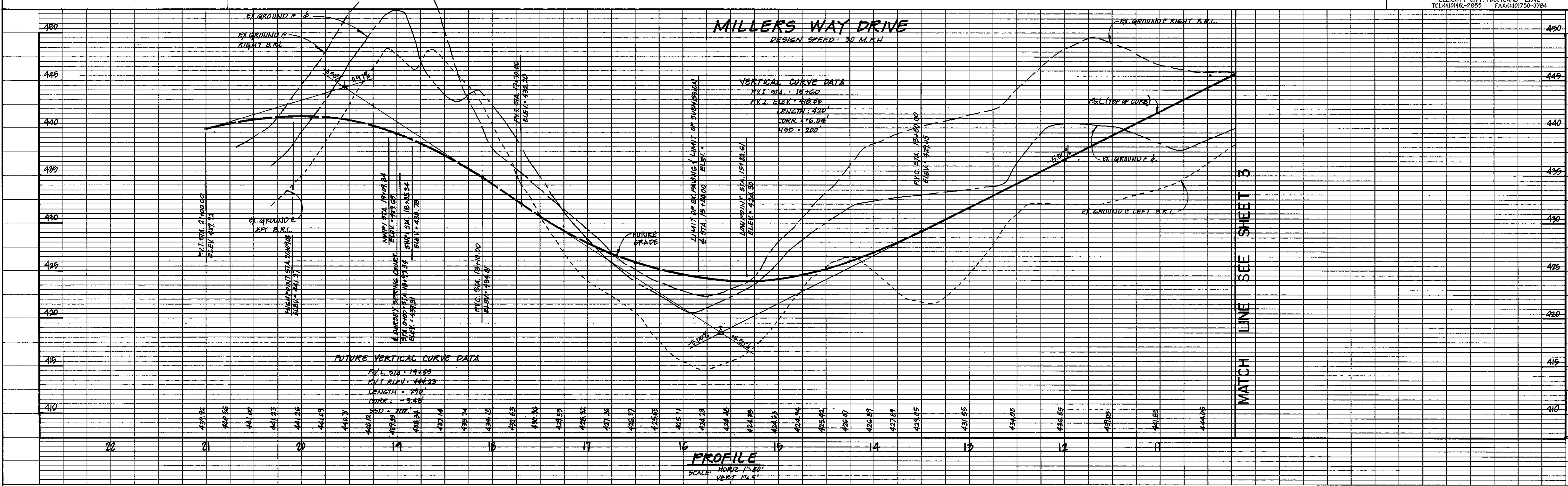
MILLERS WAY DRIVE
PROFILE
&
TYPICAL ROADWAY SECTIONS

DEVELOPER
THE RYLAND GROUP
ATT: MR. JOHN W. MERDE
GALLERIA TOWERS
SUITE #705 1447 YORK ROAD
LUTHERVILLE, MARYLAND 21093

OWNER
RYLAND HOMES AT ROLLFIELD STATION, LLC
ATTENTION: PRR JOHN W. MERDE
THE RYLAND GROUP, INC. GALLERIA TOWERS
1447 YORK ROAD SUITE 705
LUTHERVILLE, MARYLAND 21093

SCALE: AS SHOWN DATE: OCTOBER 1, 1997 DWG. NO. 4 OF 13
DES. J.V.P. DRN. J.A.U. CHK.

FISHER, COLLINS, AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS
10272 BAL THORE NATIONAL PkE
ELLCOTT CITY, MARYLAND 21042
TEL: (410) 461-2855 FAX: (410) 750-3784



| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | ACER RUBUM 'OCTOBER GLORY' RED MAPLE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

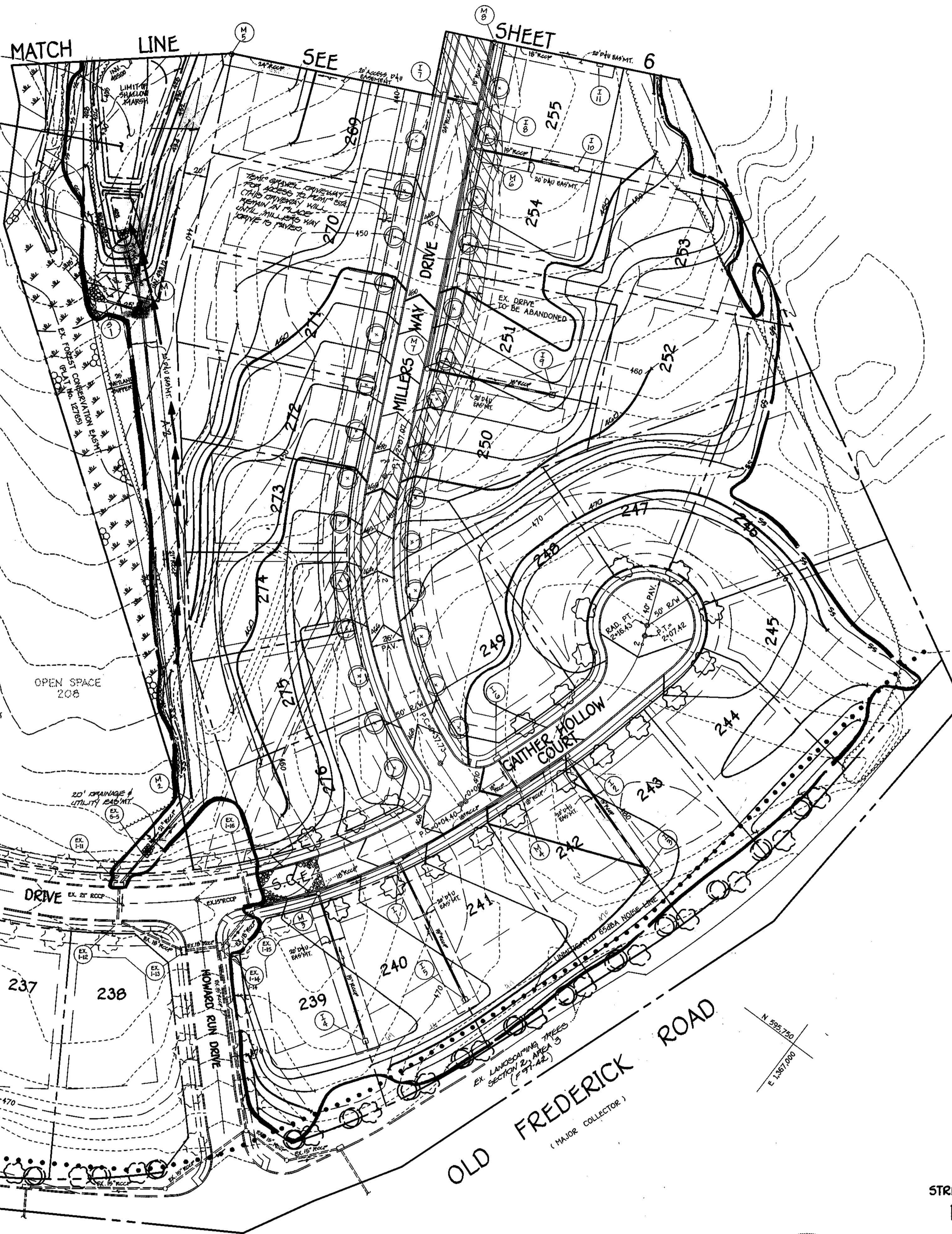
NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

- 20 STREET TREES
- 20 STREET TREES (THIS SHEET)

NOTE: WATER QUALITY FACILITY #9 TO BE PRIVATELY OWNED AND MAINTAINED BY THE H.O.A.
WATER QUALITY FACILITY #9 (SHALLOW MARSH) SEE SHEETS 1 & 8 FOR PLANTING PERTAINING TO THE SHALLOW MARSH

EX. 100 YEAR FLOOD PLAIN DRAINAGE AND UTILITY EASEMENT PLAT No. 12234
8' x 8' R.I.P. RAP APPROX. ATOP FILTER BARREN DIA. 6" DIA. x 9" THICKNESS 12"



ENGINEER'S CERTIFICATE
I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.
Signature of Engineer: *Joseph P. Peneheli* Date: 11-14-97

DEVELOPER'S CERTIFICATE
I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.
Signature of Developer: *John D. Duane* Date: 11-14-97

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements:
Clayton Simms 5/15/98
U.S.D.A. - Nat'l Resources Conservation Service

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District:
John P. Robertson 5/15/98
District Howard Soil Conservation Dist.

Approved: Department Of Planning And Zoning
Andy Hamilton 6/10/98
Chief, Division Of Land Development

John P. Robertson 6/2/98
Chief, Development Engineering Division

Approved: Howard County Department Of Public Works
Richard M. Daneker 5-29-98
Chief, Bureau Of Highways

| LEGEND | |
|--------|------------------------------------|
| Symbol | Description |
| | Existing Contour 2' Interval |
| | Existing Contour 10' Interval |
| | Proposed Contour 2' Interval |
| | Proposed Contour 10' Interval |
| | Spot Elevation |
| | Silt Fence |
| | Earth Dike |
| | Tree Protection |
| | Existing Tree Line |
| | Limit Of Disturbance |
| | Existing Street Tree |
| | Super Silt Fence |
| | Inlet Protection |
| | S.C.E. Store Construction Entrance |

PLAN
SCALE: 1" = 50'



WATER QUALITY,
STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS "I" AND "J"
(A RESUBDIVISION OF PARCELS 40- DANIELS MILL OVERLOOK,
SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
ZONING: R-ED
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 1997
SHEET 5 OF 13

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10275 BALTIMORE NATIONAL FREE
ELKLOTT CITY, MARYLAND 21042
410-481-2255

DEVELOPER
THE RYLAND GROUP, INC.
ATTN: MR. JOHN W. MEADE
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

OWNER
RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
ATTN: MR. JOHN W. MEADE
THE RYLAND GROUP, INC.
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| (X) | PLATANUS OCCIDENTALIS "BLOODGOOD" LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:
(X) - 46 STREET TREES (THIS SHEET)

STONE OUTLET SEDIMENT TRAP #1
 EX. DRAINAGE AREA : 4.91 AC.
 PROP. DRAINAGE AREA : 4.83 AC.
 STORAGE REQUIRED : 17,748 CF.
 STORAGE PROVIDED : 21,880 CF.
 WEIR CREST ELEV. : 427.0
 BOTTOM ELEV. : 424.0
 DEPTH : 3'
 SIDE SLOPES : 2:1
 TOP EMBANKMENT : 428.0
 WEIR LENGTH : 20'
 CLEANOUT ELEVATION : 425.50
 BOTTOM DIMENSION : 90' x 52'

RIP RAP OUTLET SEDIMENT TRAP #2 (ST-IV)
 EX. DRAINAGE AREA : 6.19 AC.
 PROP. DRAINAGE AREA : 6.01 AC.
 STORAGE REQUIRED : 21,636 CF.
 STORAGE PROVIDED : 22,103 CF.
 WEIR CREST ELEV. : 402.0
 BOTTOM ELEV. : 398.0
 DEPTH : 4'
 SIDE SLOPES : 2:1
 TOP EMBANKMENT : 403.0
 WEIR LENGTH : 24'
 CLEANOUT ELEVATION : 400.0
 BOTTOM DIMENSION : 96' x 12'

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Joseph P. Rucheli
 Signature of Engineer
 11-14-97
 Date

DEVELOPER'S CERTIFICATE
 I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 [Signature]
 Signature of Developer
 11-14-97
 Date

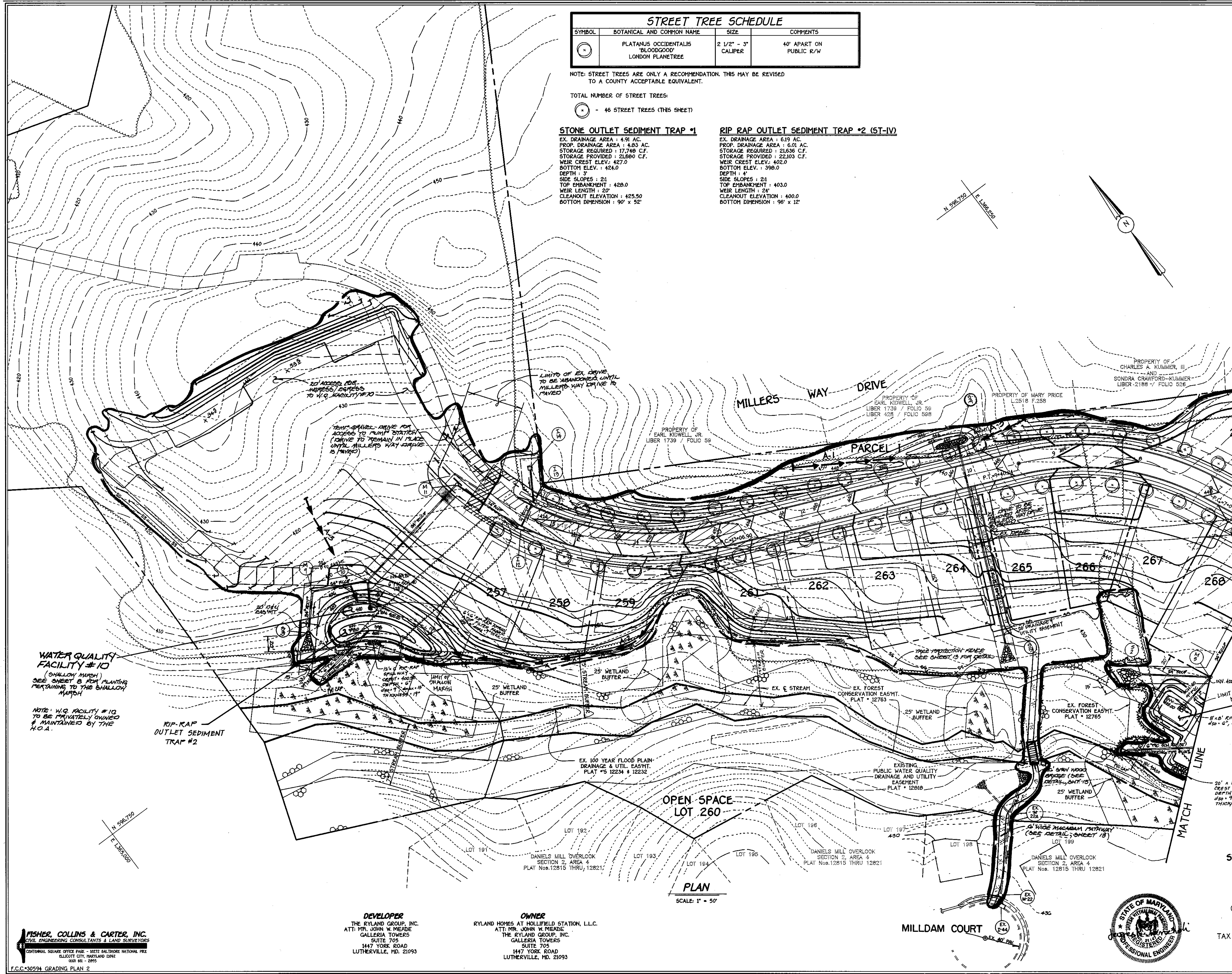
Reviewed for Howard County Soil Conservation District and Meets Technical Requirements
 Cheryl Simmons
 U.S.A. - Natural Resources Conservation Service
 5/18/98
 Date

Approved: This development is approved for erosion and sediment control by the Howard Soil Conservation District.
 [Signature]
 District Howard Soil Conservation Dist.
 5/18/98
 Date

Approved: Department of Planning and Zoning
 [Signature]
 Chief, Division of Land Development
 6/2/98
 Date

[Signature]
 Chief, Development Engineering Division
 6/2/98
 Date

Approved: Howard County Department of Public Works
 [Signature]
 Chief, Bureau of Highways
 5-29-98
 Date



LEGEND

| Symbol | Description |
|--------------|-------------------------------|
| --- (dashed) | Existing Contour 2' Interval |
| --- (dashed) | Existing Contour 10' Interval |
| --- (dashed) | Proposed Contour 2' Interval |
| --- (dashed) | Proposed Contour 10' Interval |
| + 624 | Spot Elevation |
| -S-S- | Silt Fence |
| -E-E- | Earth Dike |
| -X-X- | Tree Protection |
| --- (solid) | Existing Tree Line |
| --- (dashed) | Limit of Disturbance |
| --- (solid) | Existing Street Tree |
| --- (dashed) | Super Silt Fence |
| --- (solid) | Inlet Protection |
| S.C.E. | Stone Construction Entrance |

WATER QUALITY FACILITY #10
 (SHALLOW MARSH)
 SEE SHEET B FOR PLANTING RETAINING TO THIS SHALLOW MARSH
 NOTE: W.Q. FACILITY #10 TO BE PRIVATELY OWNED & MAINTAINED BY THE H.O.A.

RIP-RAP OUTLET SEDIMENT TRAP #2

OPEN SPACE LOT 260
 PLAN
 SCALE: 1" = 50'

WATER QUALITY, STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS #6-DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 6 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTURIAL SQUARE OFFICE PARK - 18272 BALDORVILLE NATIONAL FZC
 ELICOTT CITY, MARYLAND 21042
 410-946-2895

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093



| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | ACER RUBUM 'OCTOBER GLORY' RED MAPLE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

- 20 STREET TREES
- 26 STREET TREES (THIS SHEET)

NOTE: SEE SHEET 13 FOR
S.W.M. AREA LANDSCAPING
(SCHEDULE D).

WATER QUALITY
FACILITY # 9
(SHALLOW MARSH)
SEE SHEETS 7 & 8 FOR
PLANTING PERTAINING TO
THE SHALLOW MARSH.

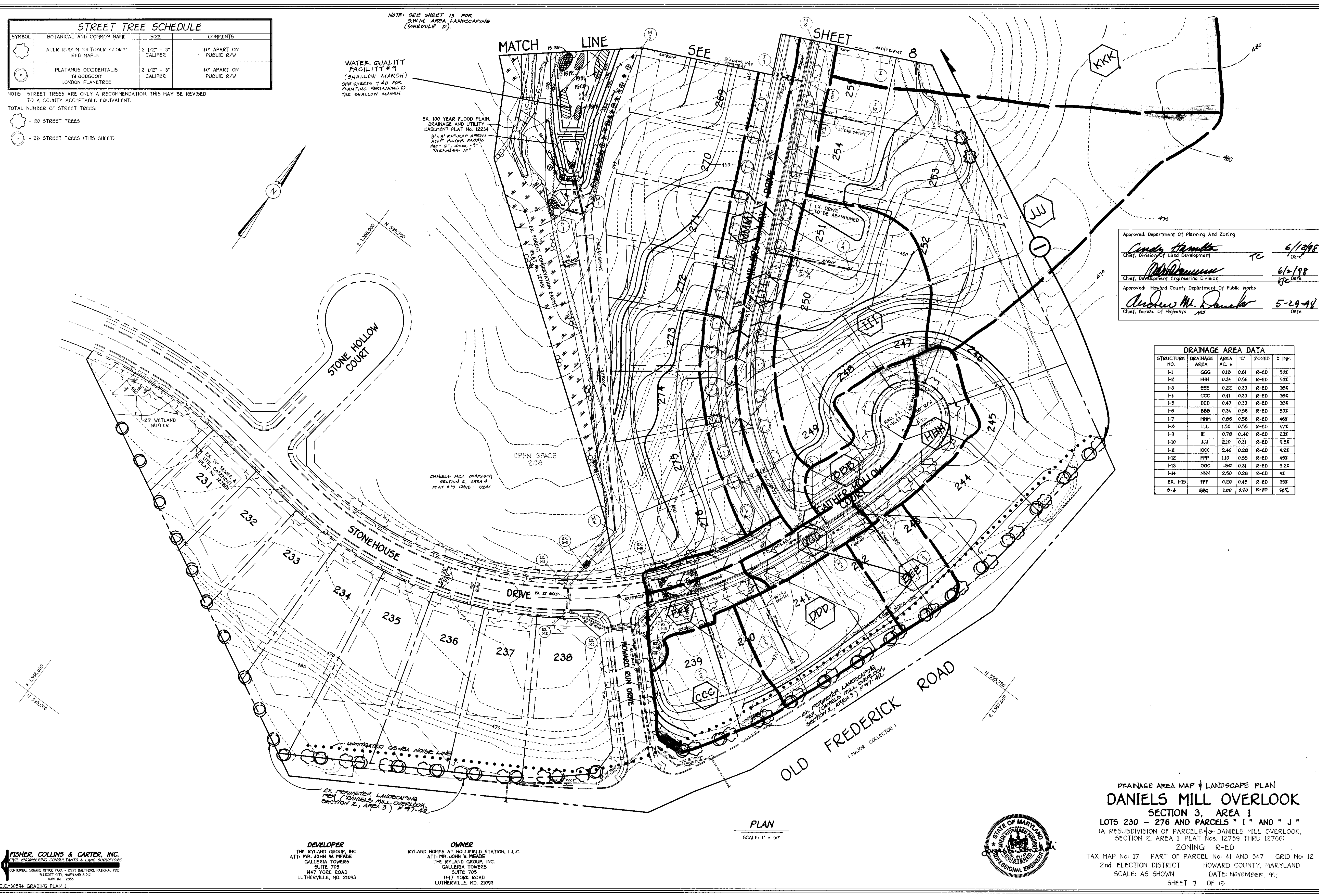
EX. 100 YEAR FLOOD PLAIN,
DRAINAGE AND UTILITY
EASEMENT PLAT No. 12234
24" x 8" R/P RAP AREA
200' MIN. RADIUS
200' x 6" DIAM. x 7"
THICKNESS 12"

DANIELS MILL OVERLOOK
SECTION 2, AREA 4
PLAT # 'S 12816 - 12821

EX. PERIMETER LANDSCAPING
FOR DANIELS MILL OVERLOOK
SECTION 2, AREA 3) F-97-12

Approved: Department of Planning And Zoning
Cindy Hamble 6/19/98
Chief, Division of Land Development
W. D. ... 6/2/98
Chief, Development Engineering Division
Approved: Howard County Department of Public Works
Andrew M. Daneker 5-29-98
Chief, Bureau of Highways

| DRAINAGE AREA DATA | | | | |
|--------------------|---------------|------------|------|--------------|
| STRUCTURE NO. | DRAINAGE AREA | AREA AC. ± | 'C' | ZONED % IMP. |
| I-1 | GGG | 0.18 | 0.61 | R-ED 50% |
| I-2 | HHH | 0.34 | 0.56 | R-ED 50% |
| I-3 | EEE | 0.22 | 0.33 | R-ED 30% |
| I-4 | CCC | 0.41 | 0.33 | R-ED 30% |
| I-5 | DDD | 0.47 | 0.33 | R-ED 30% |
| I-6 | BBB | 0.34 | 0.56 | R-ED 50% |
| I-7 | HHH | 0.86 | 0.56 | R-ED 45% |
| I-8 | LLL | 1.50 | 0.55 | R-ED 47% |
| I-9 | III | 0.78 | 0.40 | R-ED 23% |
| I-10 | JJJ | 2.10 | 0.31 | R-ED 9.5% |
| I-11 | KKK | 2.40 | 0.28 | R-ED 4.2% |
| I-12 | PPP | 1.10 | 0.55 | R-ED 45% |
| I-13 | OOO | 1.60 | 0.31 | R-ED 9.2% |
| I-14 | NNN | 2.50 | 0.28 | R-ED 4% |
| EX. I-15 | FFF | 0.20 | 0.45 | R-ED 35% |
| Σ-4 | QQQ | 2.00 | 0.60 | R-ED 36% |



PLAN
SCALE: 1" = 50'



DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS " I " AND " J "

(A RESUBDIVISION OF PARCELS 4 & DANIELS MILL OVERLOOK,
SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
ZONING: R-ED
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 1997
SHEET 7 OF 13

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
FENTONVILLE SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
BLUESKOTT CITY, MARYLAND 21042
410 461 - 2855

DEVELOPER
THE RYLAND GROUP, INC.
ATT: MR. JOHN W. HEARDE
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

OWNER
RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
ATT: MR. JOHN W. HEARDE
THE RYLAND GROUP, INC.
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

| SCHEDULE A - PERIMETER LANDSCAPE EDGE | |
|--|----------------------------------|
| PERIMETER | 1 |
| CATEGORY | Adjacent to Perimeter Properties |
| LANDSCAPE TYPE | A |
| LINEAR FEET OF PERIMETER | 1485' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | YES (570') |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED) | - |
| NUMBER OF PLANTS REQUIRED | |
| SHADE TREES | 15 |
| EVERGREEN TREES | - |
| SHRUBS | - |
| NUMBER OF PLANTS PROVIDED | |
| SHADE TREES | 15 |
| EVERGREEN TREES | - |
| OTHER TREES (2:1 SUBSTITUTION) | - |
| SHRUBS (0:1 SUBSTITUTION) | - |
| (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED) | - |

| LANDSCAPING PLANT LIST | | | |
|------------------------|-----|--|--|
| QTY. | KEY | NAME | SIZE |
| 15 | | ACER RUBRUM "OCTOBER GLOW" (OCTOBER RED MAPLE) | 2 - 2 1/2" CALIPER FULL CROWN, 8-10' |

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.12A OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL'S FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$15,000.00.

| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | PLATANUS OCCIDENTALIS "BLOODGOOD" LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

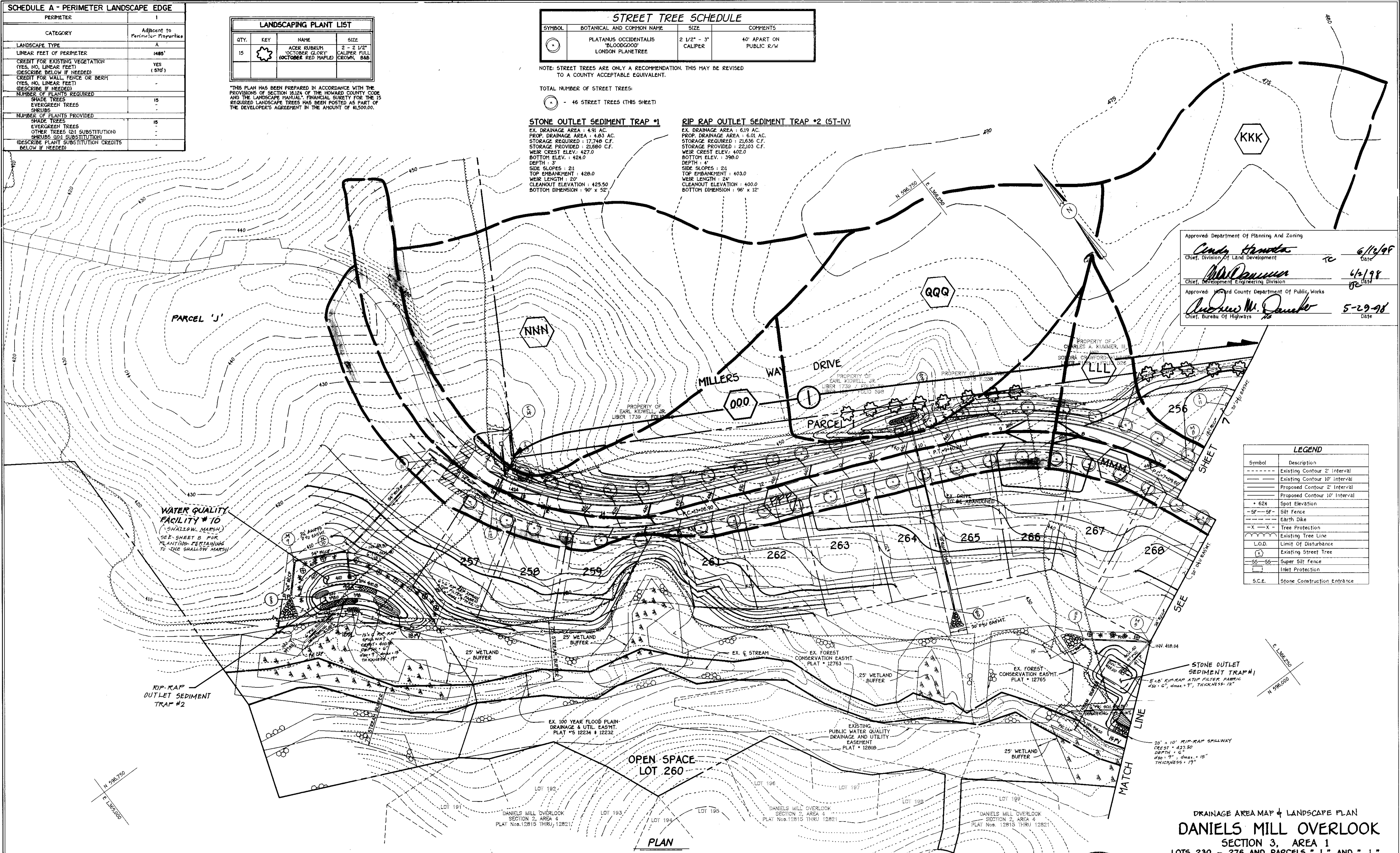
- 46 STREET TREES (THIS SHEET)

STONE OUTLET SEDIMENT TRAP #1

EX. DRAINAGE AREA : 4.91 AC.
PROP. DRAINAGE AREA : 4.83 AC.
STORAGE REQUIRED : 17,748 C.F.
STORAGE PROVIDED : 21,680 C.F.
WEIR CREST ELEV. : 427.0
BOTTOM ELEV. : 424.0
DEPTH : 3'
SIDE SLOPES : 2:1
TOP EMBANKMENT : 428.0
WEIR LENGTH : 20'
CLEANOUT ELEVATION : 425.50
BOTTOM DIMENSION : 90' x 52'

RIP RAP OUTLET SEDIMENT TRAP #2 (ST-IV)

EX. DRAINAGE AREA : 6.19 AC.
PROP. DRAINAGE AREA : 6.01 AC.
STORAGE REQUIRED : 17,636 C.F.
STORAGE PROVIDED : 22,103 C.F.
WEIR CREST ELEV. : 402.0
BOTTOM ELEV. : 398.0
DEPTH : 4'
SIDE SLOPES : 2:1
TOP EMBANKMENT : 403.0
WEIR LENGTH : 24'
CLEANOUT ELEVATION : 400.0
BOTTOM DIMENSION : 96' x 12'



Approved: Department of Planning and Zoning
Cindy Hamada 6/16/98
 Chief, Division of Land Development
Bill Peterson 6/2/98
 Chief, Development Engineering Division
 Approved: Howard County Department of Public Works
Andrew M. Danako 5-29-98
 Chief, Bureau of Highways

| LEGEND | |
|----------|-------------------------------|
| Symbol | Description |
| --- | Existing Contour 2' Interval |
| --- | Existing Contour 10' Interval |
| --- | Proposed Contour 2' Interval |
| --- | Proposed Contour 10' Interval |
| + 624 | Spot Elevation |
| -SF - SF | Silt Fence |
| --- | Earth Dike |
| -X - X | Tree Protection |
| --- | Existing Tree Line |
| L.O.D. | Limit of Disturbance |
| (T) | Existing Street Tree |
| SS - SS | Super Silt Fence |
| --- | Inlet Protection |
| S.C.E. | Stone Construction Entrance |

DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 4 & 6 - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 8 OF 12

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. HEARDE
 GALLERIA TOWERS
 SUITE 705
 1147 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. HEARDE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1147 YORK ROAD
 LUTHERVILLE, MD. 21093

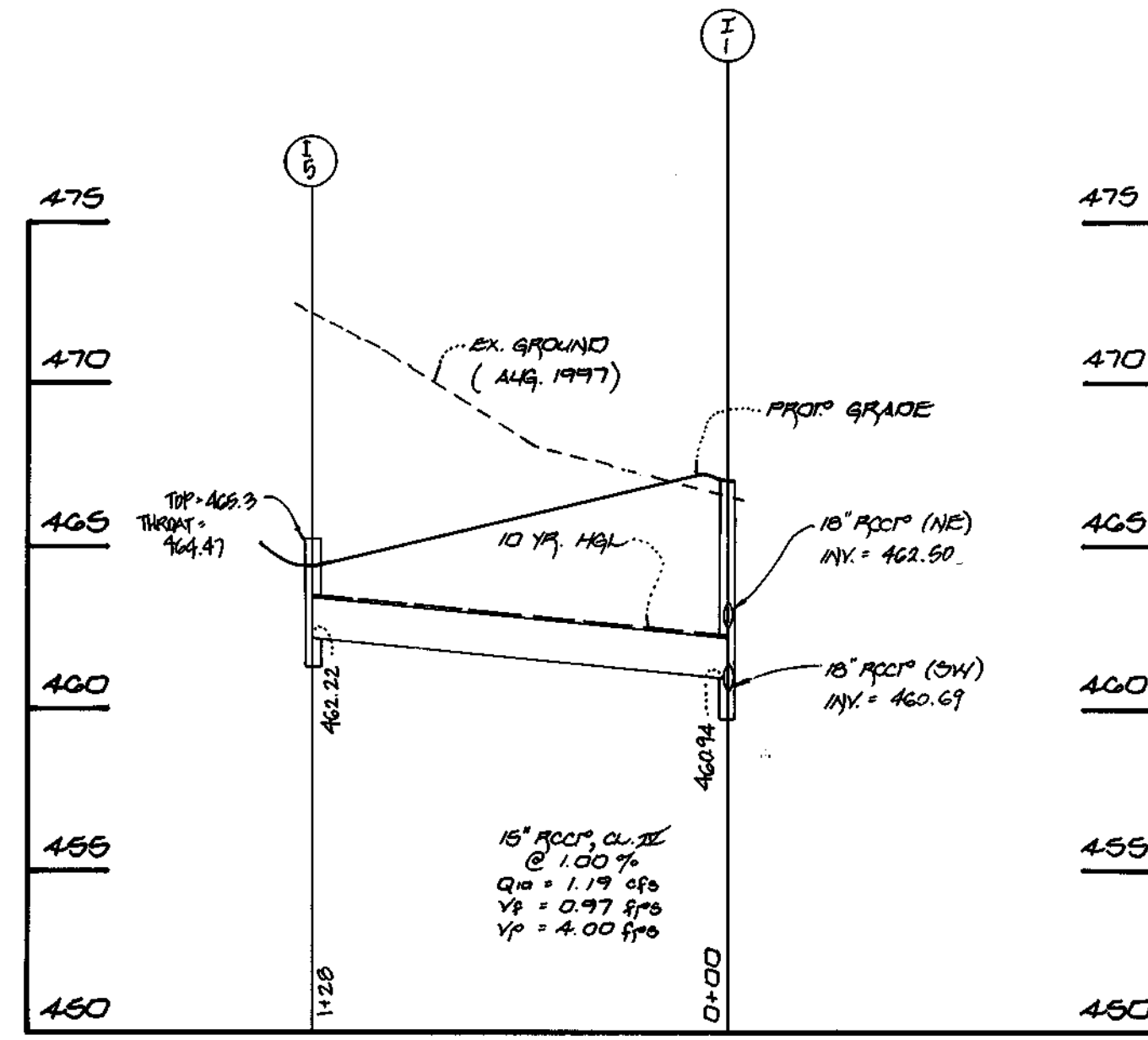
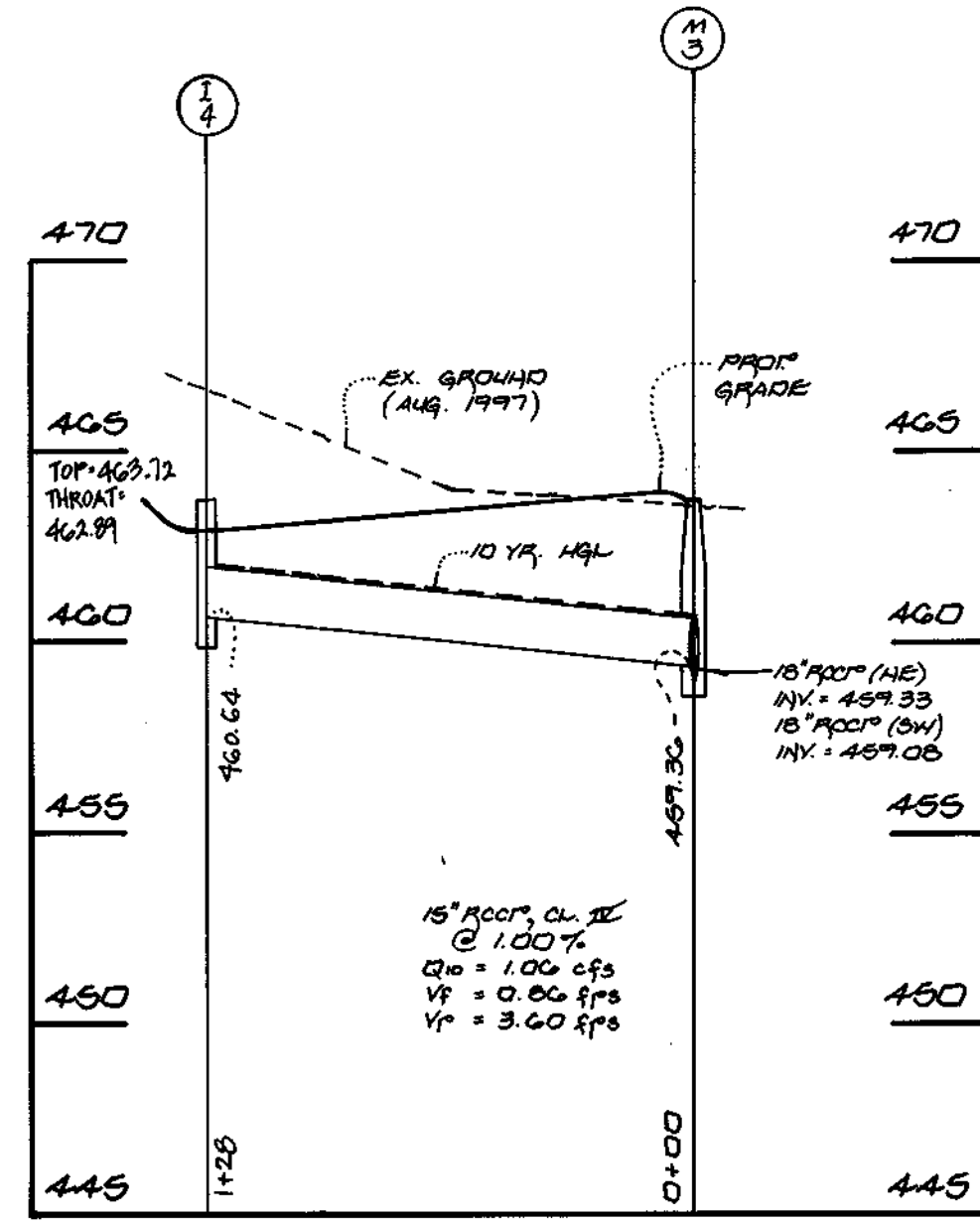
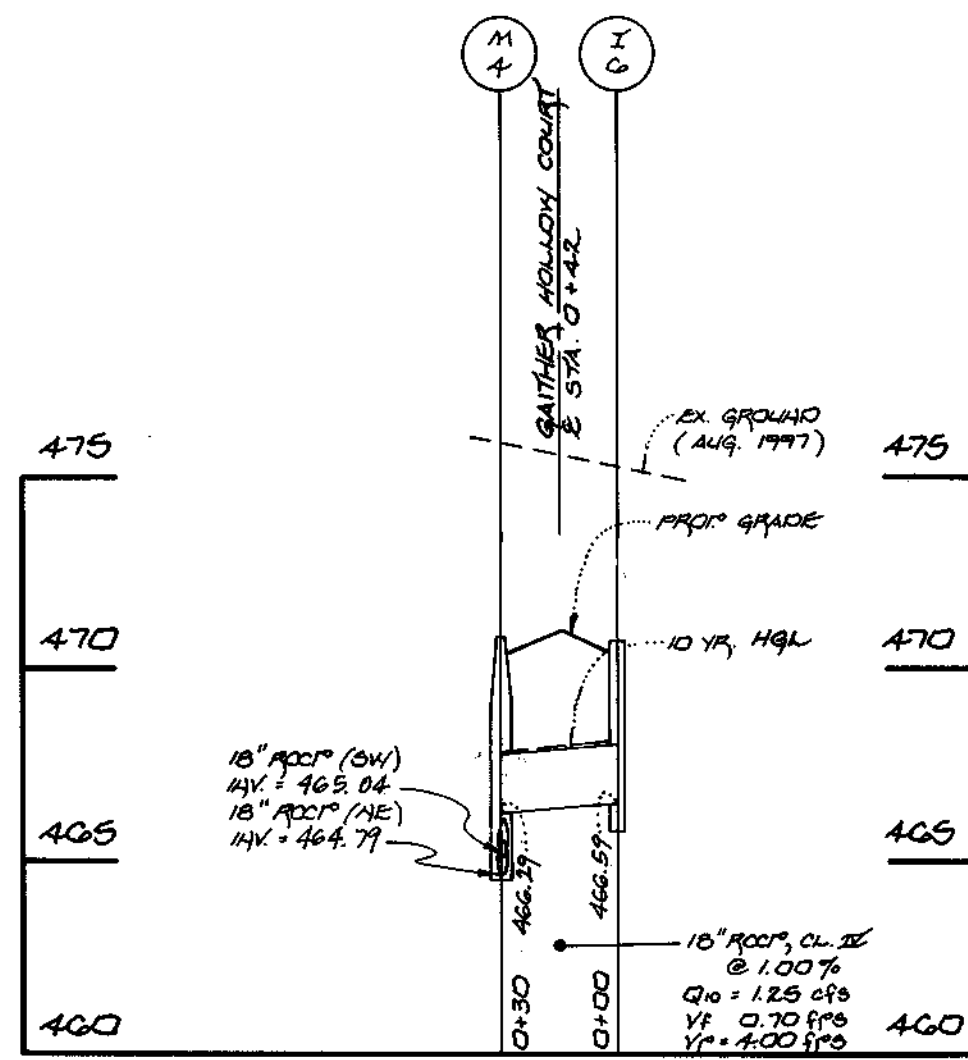
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 NORTH SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 BELLEVILLE CITY, MARYLAND 21034
 4107 961 - 2855



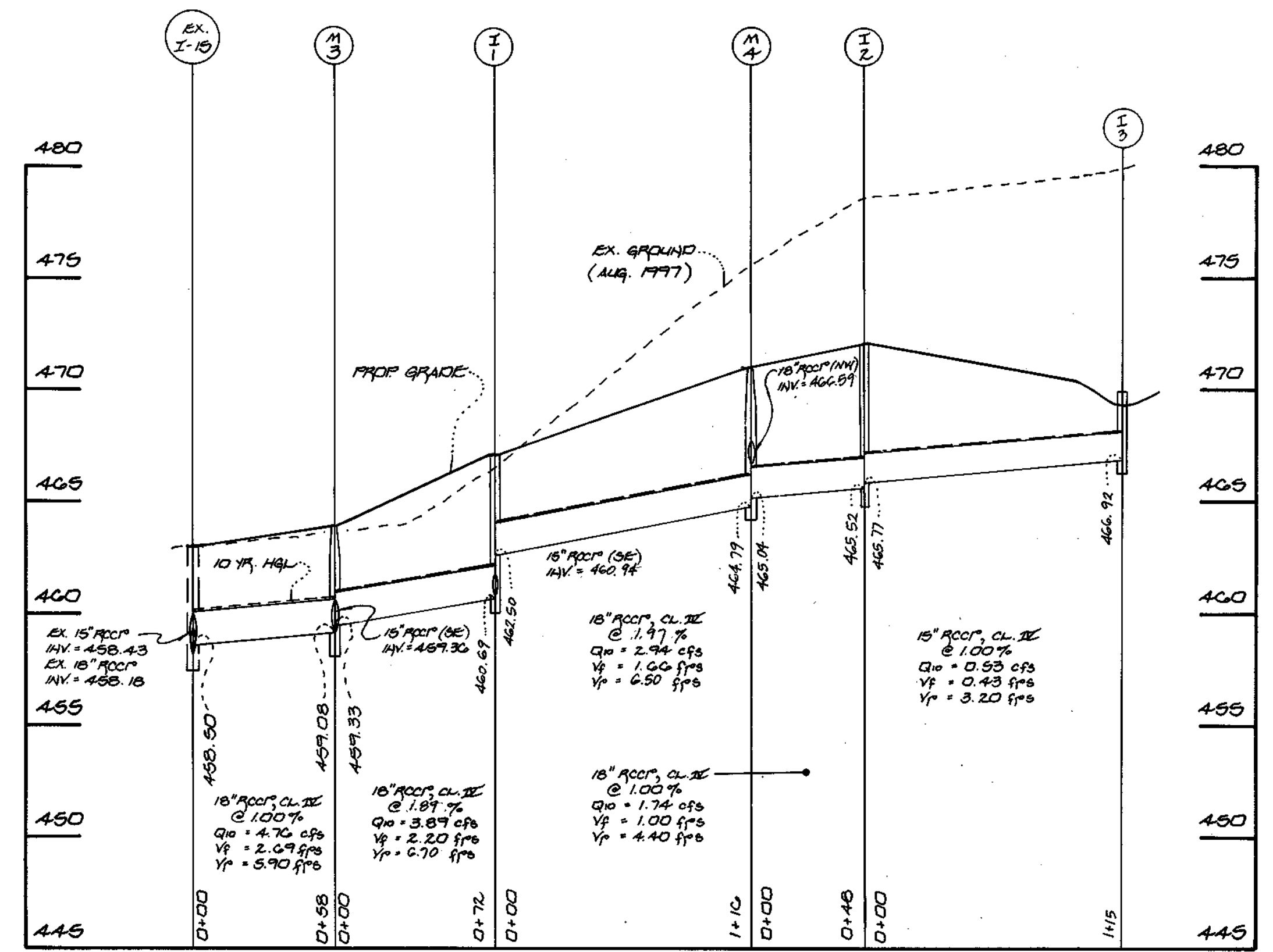
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Candy Handley 6/12/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John Danvers 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

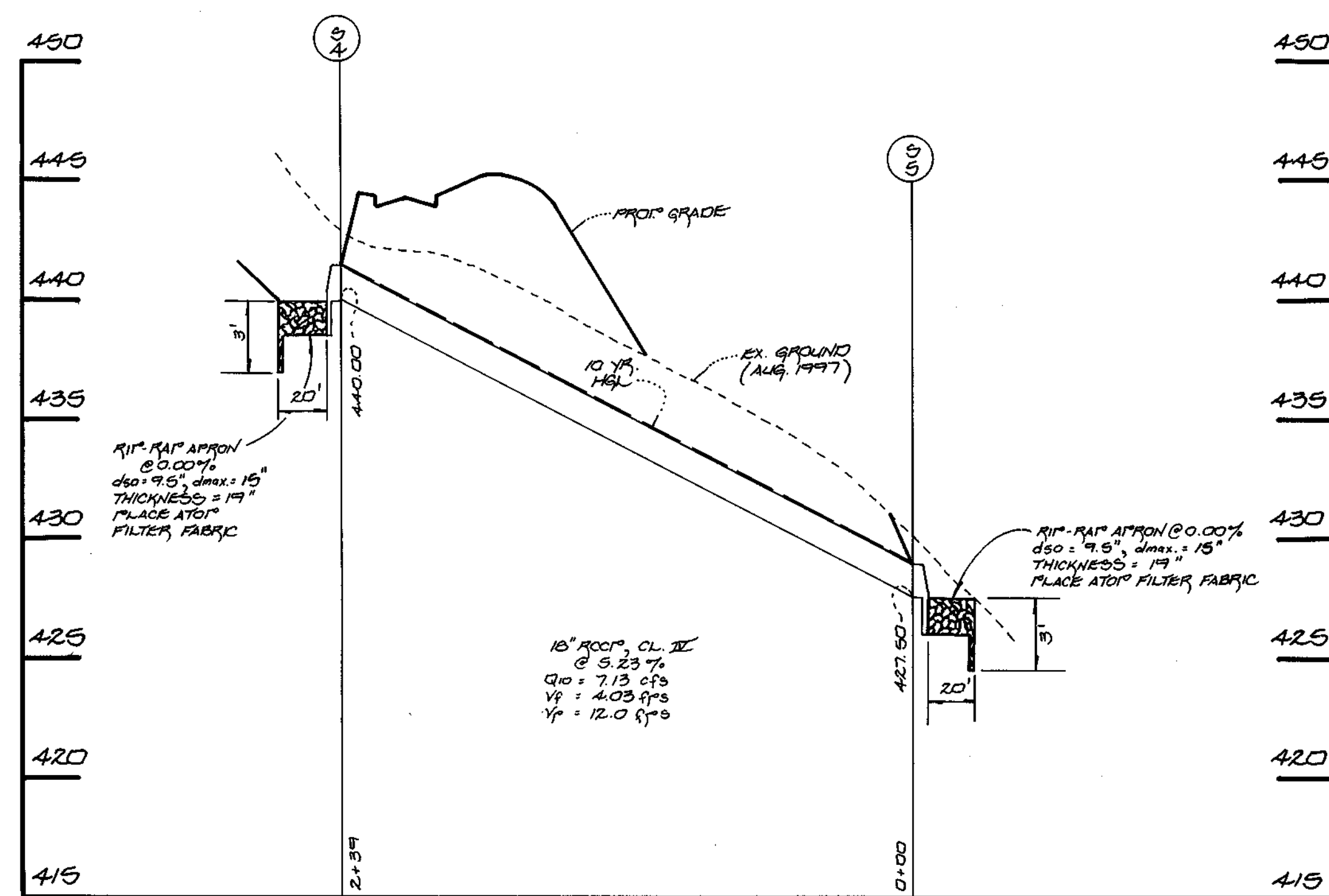
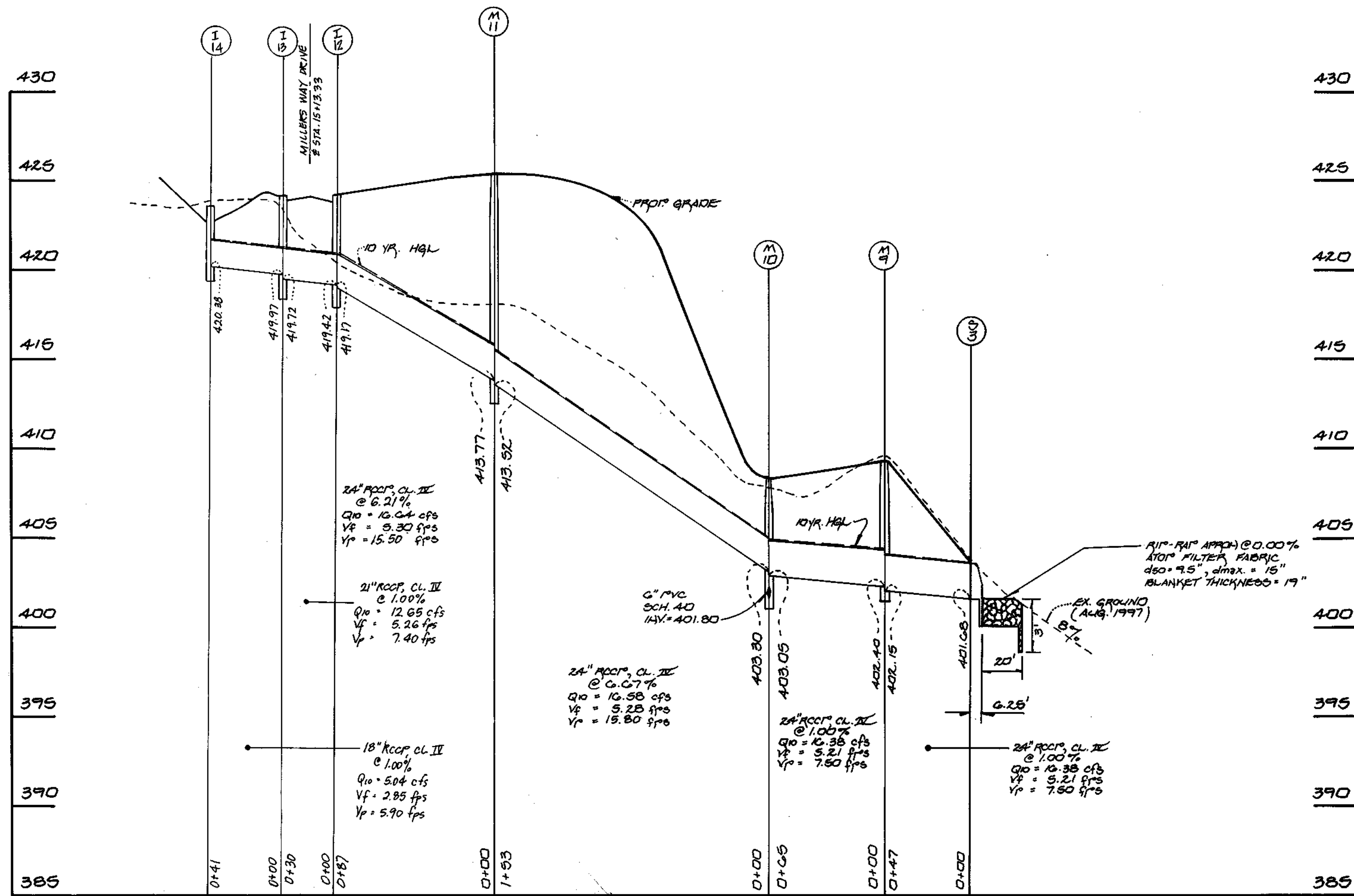
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. Daneker 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE



PROFILES
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



PROFILE
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 88-DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 9 OF 19

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 481-2555

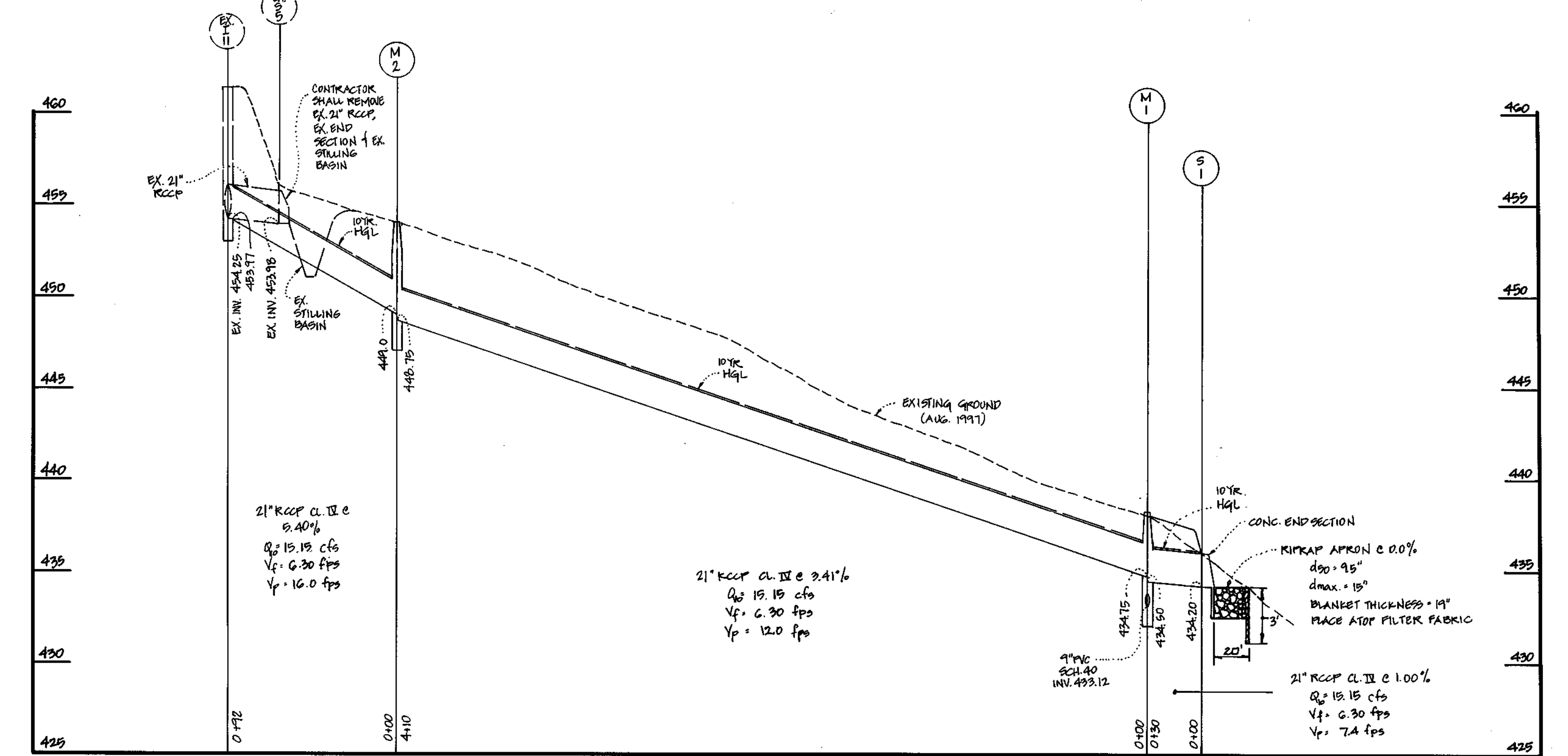
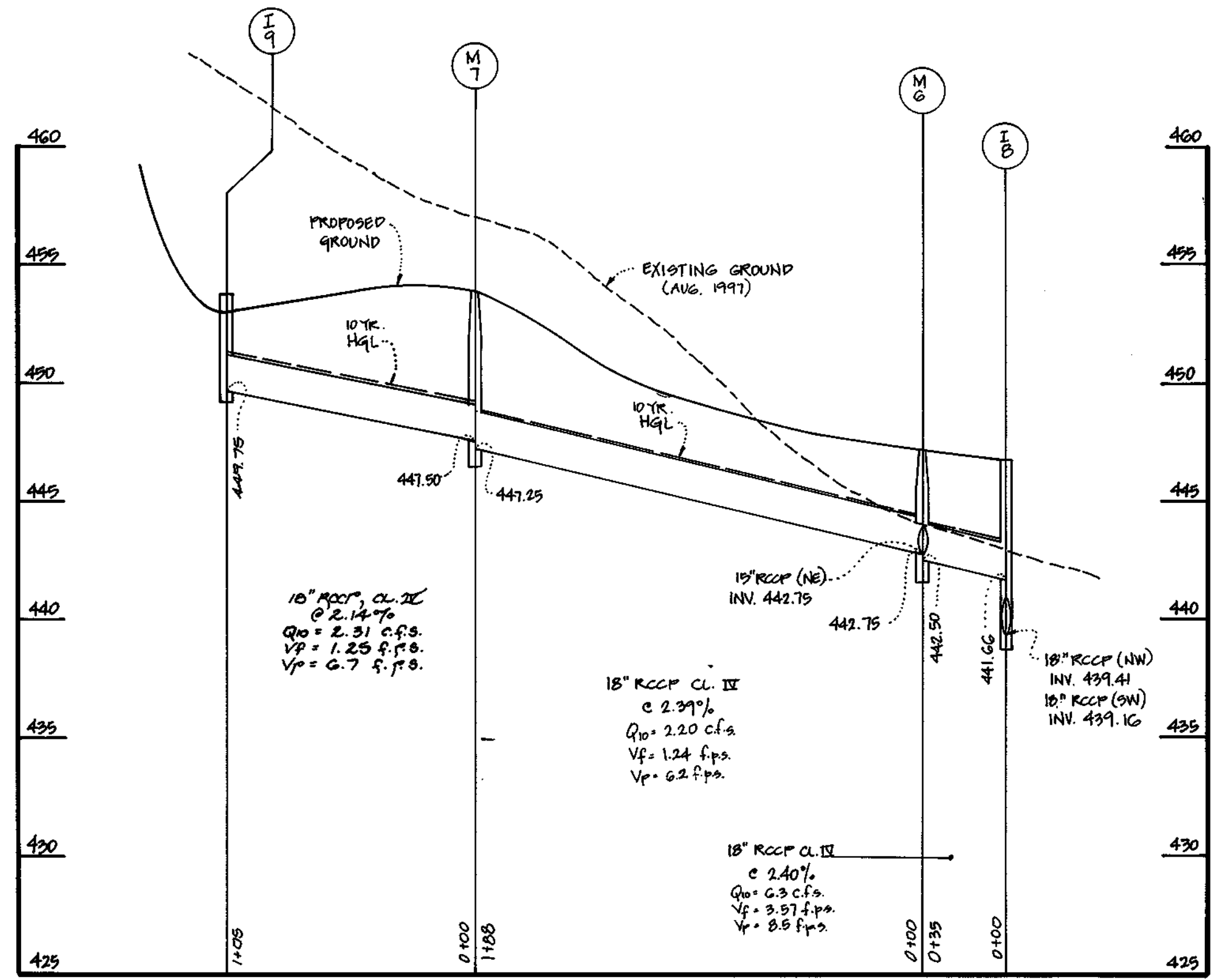
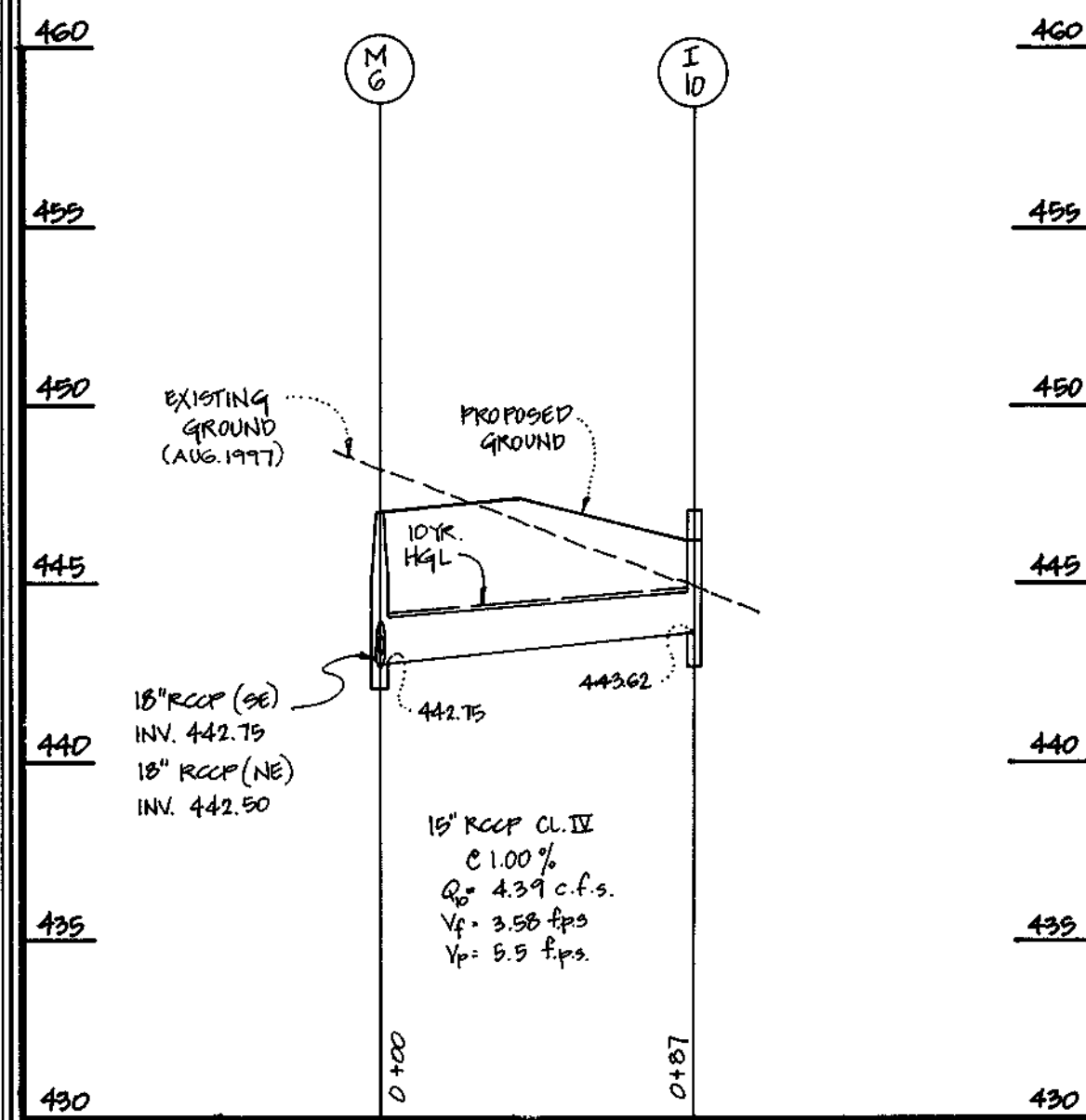
DEVELOPER
 THE RYLAND GROUP, INC.
 ATTN: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATTN: MR. JOHN W. MEADE
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 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

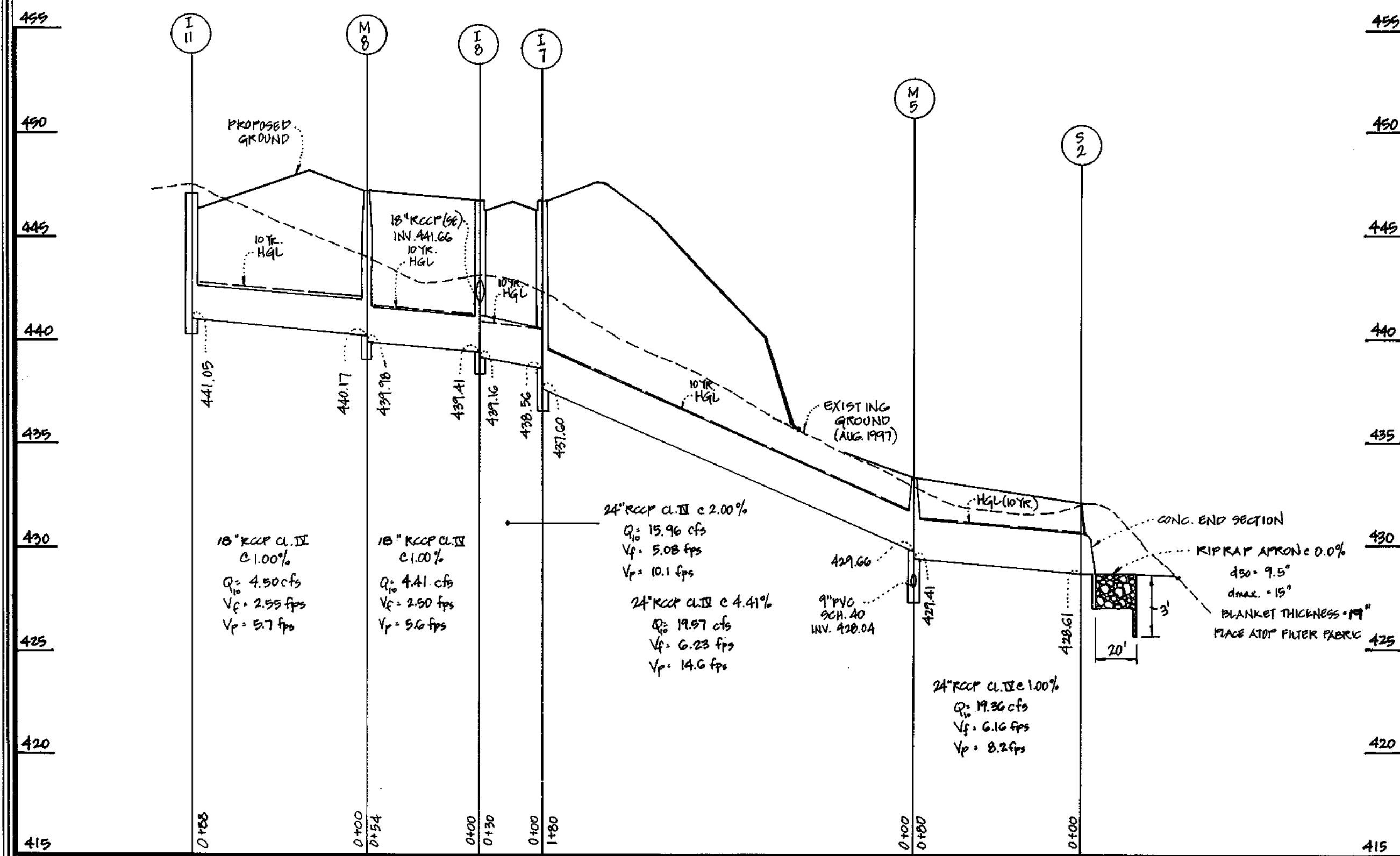
APPROVED: DEPARTMENT OF PUBLIC WORKS
James M. Dangle 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cinda Hamilton 6/1/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

W.D. Dammann 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



PROFILES
 SCALE: 1" = 80' HORIZ.
 1" = 5' VERT.



PROFILE
 SCALE: 1" = 80' HORIZ.
 1" = 5' VERT.



STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS " I " AND " J "
 (A RESUBDIVISION OF PARCELS 86-DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)

ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 10 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 33 BENTONVILLE SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 410 914 - 2955

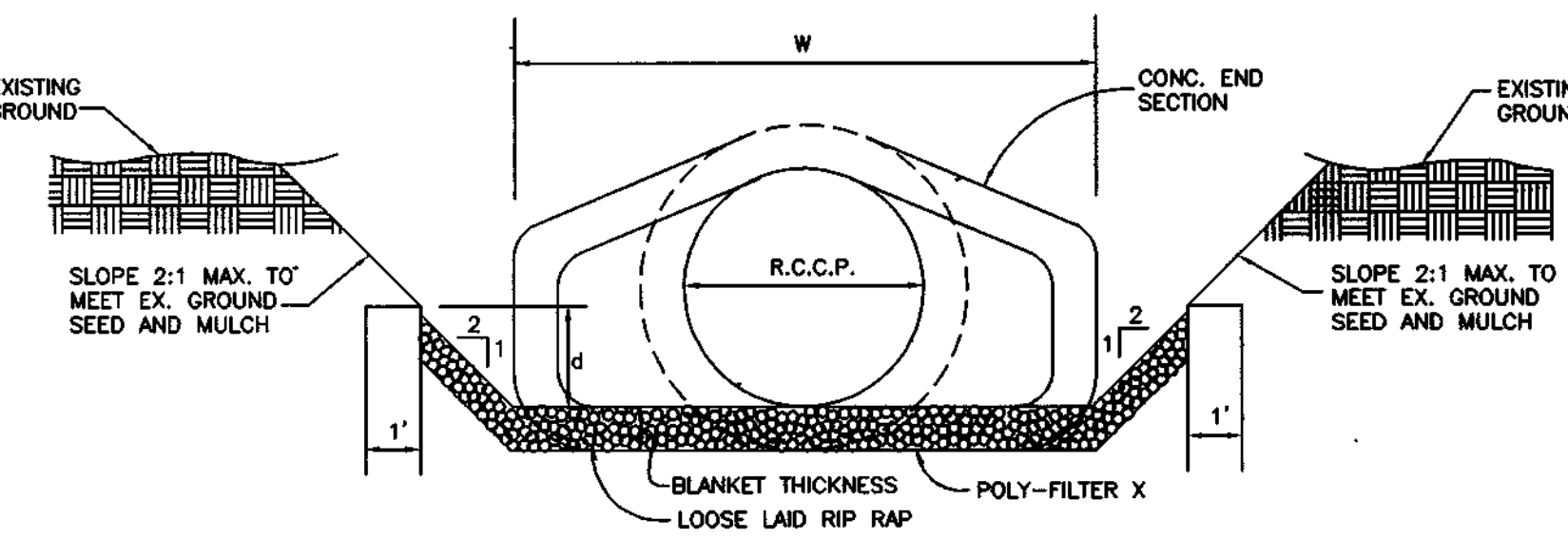
DEVELOPER
 THE RYLAND GROUP, INC.
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 LUTHERVILLE, MD. 21093

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 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

STRUCTURE SCHEDULE

| STRUCTURE NO. | TOP ELEVATION | INV. IN | INV. OUT | ROAD NAME | ROAD STA. | OFFSET | TYPE | REMARKS |
|---------------|---------------|---------|----------|----------------------|--------------------|---------|-------------------|-----------|
| I-1 | 467.10 | 462.50 | 460.94 | STONEHOUSE DRIVE | C.L. STA. 0+70 (S) | 13' LT. | A-5 INLET | S.D. 4.40 |
| I-2 | 472.02 | 465.77 | 465.52 | GAITHER HOLLOW COURT | C.L. STA. 0+91 (N) | 13' RT. | A-5 INLET | S.D. 4.40 |
| I-3 | 470.00 | 469.17 | 466.92 | | | | 'D' INLET | S.D. 4.39 |
| I-4 | 463.72 | 462.89 | 460.64 | | | | 'D' INLET | S.D. 4.39 |
| I-5 | 465.30 | 464.47 | 462.22 | | | | 'D' INLET | S.D. 4.39 |
| I-6 | 470.79 | | 466.59 | GAITHER HOLLOW COURT | C.L. STA. 0+42 (N) | 13' LT. | A-5 INLET | S.D. 4.40 |
| I-7 | 446.75 | 438.56 | 437.60 | MILLERS WAY DRIVE | C.L. STA. 6+05 | 13' LT. | A-10 INLET | S.D. 4.41 |
| I-8 | 446.75 | 439.41 | 439.16 | MILLERS WAY DRIVE | C.L. STA. 6+05 | 13' RT. | A-10 INLET | S.D. 4.41 |
| I-9 | 453.83 | 445.00 | 449.75 | | | | 'D' INLET | S.D. 4.39 |
| I-10 | 447.03 | 446.20 | 443.62 | | | | 'D' INLET | S.D. 4.39 |
| I-11 | 447.13 | 446.30 | 441.05 | | | | 'D' INLET | S.D. 4.39 |
| I-12 | 424.30 | 419.42 | 419.17 | MILLERS WAY DRIVE | C.L. STA. 15+32.61 | 13' LT. | A-10 INLET | S.D. 4.41 |
| I-13 | 424.30 | 419.97 | 419.72 | MILLERS WAY DRIVE | C.L. STA. 15+32.61 | 13' RT. | A-10 INLET | S.D. 4.41 |
| I-14 | 423.71 | 422.88 | 420.38 | | | | 'D' INLET | S.D. 4.39 |
| M-1 | 438.25 | 434.75 | 434.50 | | | | STD. MANHOLE | G.5.01 |
| M-2 | 454.0 | 449.0 | 448.75 | | | | STD. MANHOLE | G.5.01 |
| M-3 | 463.68 | 459.36 | 459.33 | STONEHOUSE DRIVE | C.L. STA. 1+41 (S) | 16' LT. | STD. MANHOLE | G.5.01 |
| M-4 | 470.91 | 465.04 | 466.59 | GAITHER HOLLOW COURT | C.L. STA. 0+42 (N) | 16' RT. | STD. MANHOLE | G.5.01 |
| M-5 | 433.41 | 429.66 | 429.41 | | | | STD. MANHOLE | G.5.01 |
| M-6 | 447.01 | 442.75 | 442.50 | MILLERS WAY DRIVE | C.L. STA. 5+69 | 16' RT. | STD. MANHOLE | G.5.01 |
| M-7 | 453.95 | 447.50 | 447.25 | MILLERS WAY DRIVE | C.L. STA. 3+82 | 16' RT. | STD. MANHOLE | G.5.01 |
| M-8 | 447.25 | 440.17 | 439.98 | MILLERS WAY DRIVE | C.L. STA. 6+59 | 16' RT. | STD. MANHOLE | G.5.01 |
| M-9 | 409.50 | 402.40 | 402.15 | | | | STD. MANHOLE | G.5.01 |
| M-10 | 408.40 | 403.30 | 403.05 | | | | STD. MANHOLE | G.5.01 |
| M-11 | 425.53 | 413.77 | 413.52 | MILLERS WAY DRIVE | C.L. STA. 16+15 | 16' LT. | STD. MANHOLE | G.5.01 |
| S-1 | 436.20 | | 434.20 | | | | CONC. END SECTION | S.D. 5.52 |
| S-2 | 430.86 | | 428.61 | | | | CONC. END SECTION | S.D. 5.52 |
| S-3 | 403.93 | | 401.68 | | | | CONC. END SECTION | S.D. 5.52 |
| S-4 | 441.5 | | 440.0 | | | | CONC. END SECTION | S.D. 5.52 |
| S-5 | 429.0 | | 427.5 | | | | CONC. END SECTION | S.D. 5.52 |

NOTE: FOR ALL 'D' INLETS LOCATED IN SWAMP AREAS, ALL 4 SIDES ARE TO REMAIN OPEN.
* DENOTES THROAT ELEVATIONS



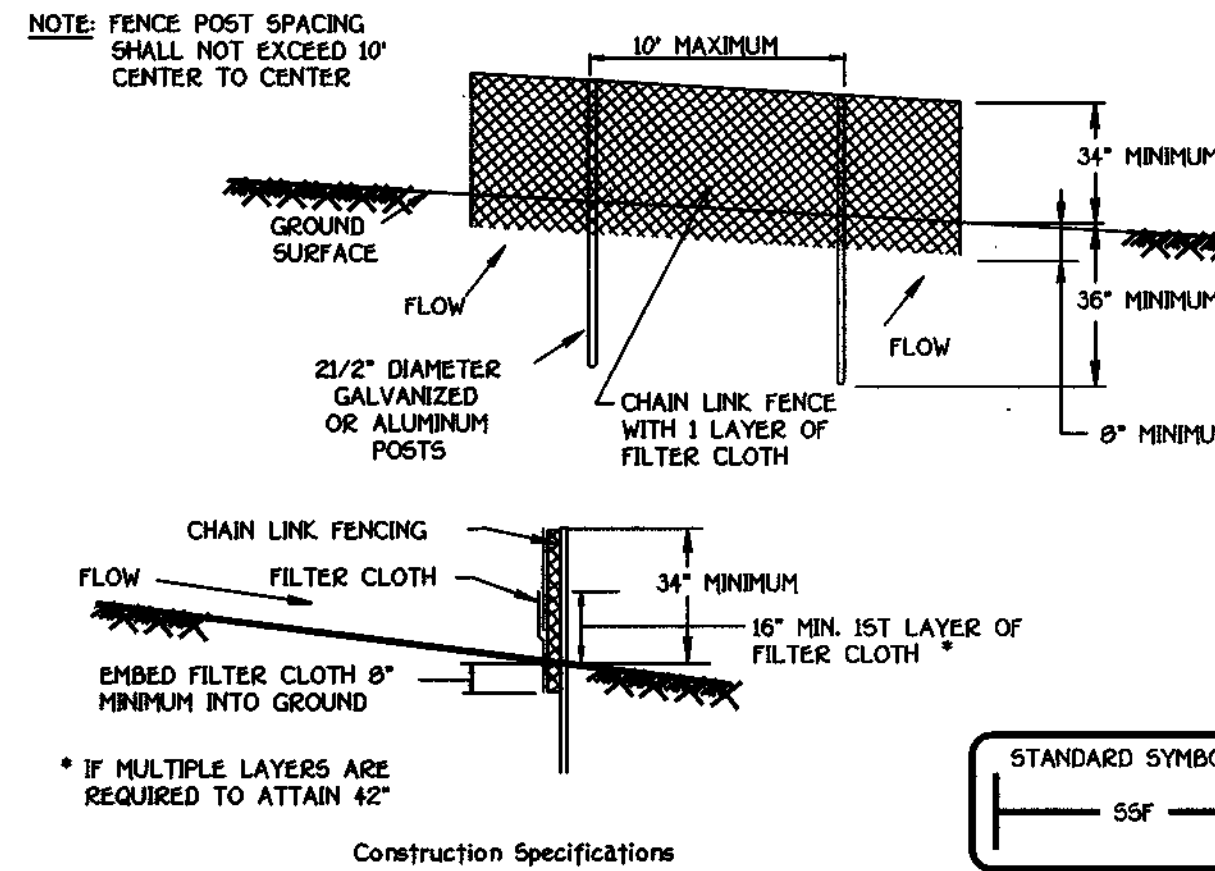
RIP RAP CHANNEL DETAIL
NO SCALE

| STRUCTURE | AREA | WETTED PERIMETER | R | R 2/3 | S | S 1/2 | W | d | N | V | Q | BLANKET THICKNESS | Q10 | DIA. |
|-----------|---------|------------------|------|-------|-------|--------|------|-------|-------|------|-----------|-------------------|-----|---------------|
| S-1 | 6.50 SF | 8.97 | 0.72 | 0.803 | 0.005 | 0.0707 | 4.5' | 1.00' | 0.035 | 2.42 | 15.73 CFS | 9.5" 15" | 19" | 15.15 CFS 21" |
| S-2 | 8.00 SF | 10.47 | 0.76 | 0.833 | 0.005 | 0.0707 | 6.0' | 1.00' | 0.035 | 2.51 | 20.08 FPS | 9.5" 15" | 19" | 19.36 FPS 24" |
| S-3 | 7.02 SF | 10.02 | 0.70 | 0.788 | 0.005 | 0.0707 | 6.0' | 0.90' | 0.035 | 2.37 | 16.64 FPS | 9.5" 15" | 19" | 16.38 FPS 24" |

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

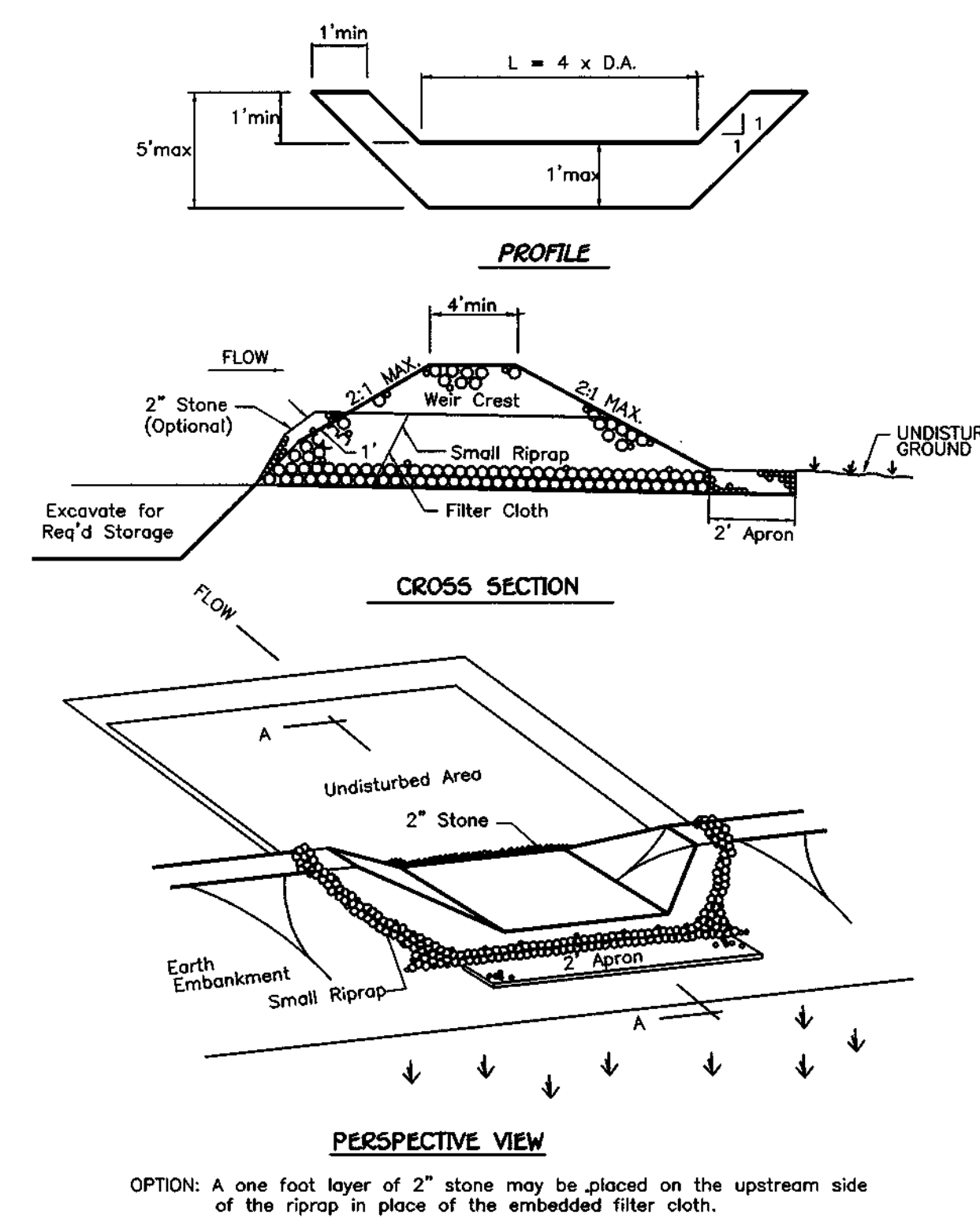
DETAIL 33 - SUPER SILT FENCE



- Construction Specifications
- 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.
 - 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.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - 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.
 - 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:

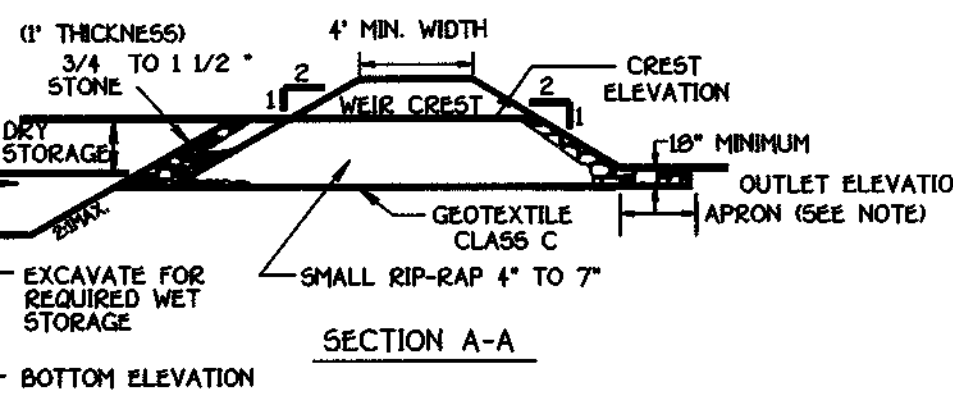
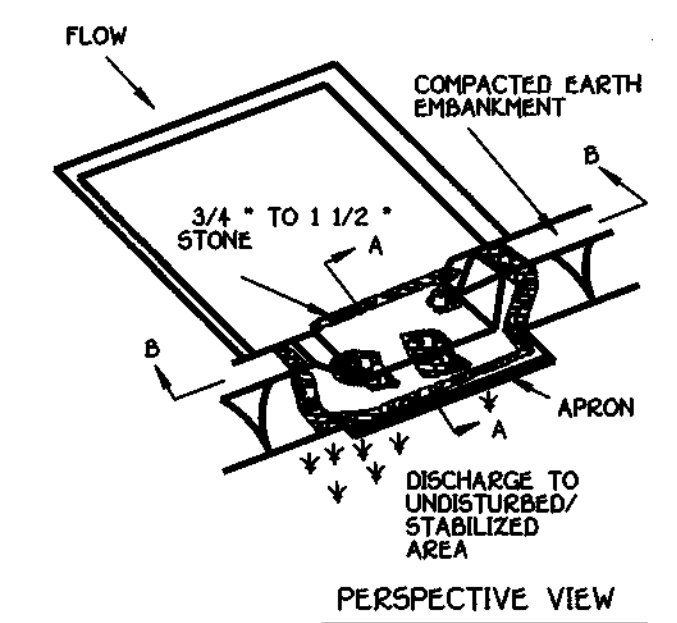
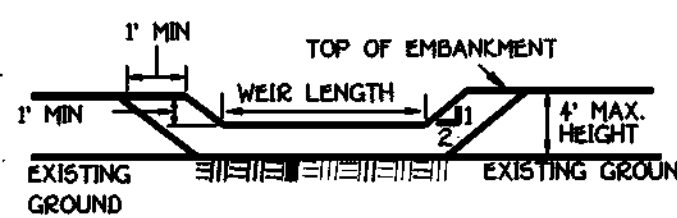
| | | |
|----------------------|------------------------------------|----------------|
| Tensile Strength | 50 lb/in (min) | Test: MSMT 509 |
| Tensile Modulus | 20 lb/in (min) | Test: MSMT 509 |
| Flow Rate | 0.3 gal/ft ² /min (max) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min) | Test: MSMT 322 |

STONE OUTLET SEDIMENT TRAP ST-VI



- The Area Under Embankment Shall Be Cleared, Grubbed And Stripped Of Any Vegetation And Root Mat. The Pool Area Shall Be Cleared.
- The Fill Material For The Embankment Shall Be Free Of Roots Or Other Woody Vegetation As Well As Over-Sized Stones, Rocks, Organic Material Or Other Objectionable Material. The Embankment Shall Be Compacted By Traversing.
- All Cut And Fill Slopes Shall Be 2:1 Or Flatter.
- The Stone Used In The Outlet Shall Be Small Riprap 4"-8" Along With A 1" Thickness Of 2" Aggregate Placed On The Up-Grade Side On The Small Riprap Or Embedded Filter Cloth In The Riprap.
- Sediment Shall Be Removed And Trap Restored To Its Original Dimensions When The Sediment Has Accumulated To 1/2 The Design Depth Of The Trap.
- The Structure Shall Be Inspected After Each Rain And Repaired As Needed.
- Construction Operations Shall Be Carried Out In Such A Manner That Erosion And Water Pollution Is Minimized.
- The Structure Shall Be Removed And The Area Stabilized When The Drainage Area Has Been Properly Stabilized.

RIP-RAP OUTLET SEDIMENT TRAP - ST IV



NOTE: 5' MIN LENGTH UP TO 5 ACRES, OVER 5 ACRES USE 10' MIN

ENGINEER'S CERTIFICATE

I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

Signature Of Engineer: *Joseph P. ...* Date: 11-14-97

DEVELOPER'S CERTIFICATE

I/We Certify That All Development And Construction Will Be Done According To This Plan For Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.

Signature Of Developer: *John ...* Date: 11-14-97

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements

Signature: *Chris Simmons* Date: 5/18/98

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.

Signature: *John R. Robertson* Date: 5/18/98

Approved: Department Of Planning And Zoning

Signature: *Chris Hamstra* Date: 6/2/98

Signature: *Chris Hamstra* Date: 6/2/98

Approved: Howard County Department Of Public Works

Signature: *Richard W. ...* Date: 5-29-98

Sequence Of Construction

- Obtain The Required Grading Permit. (1 DAY)
- Notify Miss Utility 48 Hours Before Beginning Any Work (1-800-257-7777). Notify Howard County Construction/Inspection Division 24 Hours Before Starting Any Work (410) 313-1870.
- INSTALL FOREST CONSERVATION PROTECTIVE DEVICES. (1 WEEK)
- INSTALL The Required Sediment And Erosion Control Devices As Indicated On The Plan Sheets. (2 WEEKS)
- Install Storm Drain From S-4 to S-5. (2 DAYS)
- INSTALL TEMP. GRAVEL DRIVE FOR RELOCATION OF PUMP STATION ACCESS ROAD. (2 WEEKS)
- Grade Site To Subgrade, Stabilize And Install Storm Drains And Install Inlet Protections (3 weeks).
- The Contractor Shall Inspect And Provide Necessary Maintenance On All Sediment And Erosion Control Structures Shown Hereon After Each Rainfall And On A Daily Basis.
- Sediment Shall Be Removed From The Stone Outlet Sediment Traps Once The Cleanout Elevations Have Been Reached. Sediment Must Be Placed Uphill From The Traps. See Plans For Cleanout Elevations (1 Day).
- Install Road Base Course (5 Days).
- Install Forebay And Shallow Marsh Facility (1 Week).
- Remove Sediment From Roadways And Dress Stone Construction Entrance As Required And Stabilize All Disturbed Areas (2 Days).
- Remove Inlet Protections And Flush Storm Drain System To Remove Any Trapped Sediment.
- Apply Tack Coat To Sub-Base And Lay Surface Course (4 Days).
- Remove All Sediment Control Measures Upon Sediment Control Inspectors Approval (2 Days).
- All Disturbed Areas Due To Removal Of Sediment Control Measures Shall Be Graded And Stabilized By Permanent Seeding (2 Days).

DETAIL SHEET

DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS "I" AND "J"
(A RESUBDIVISION OF PARCEL E & G - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
ZONING: R-ED
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 1, 1997
SHEET 11 OF 13



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 481 - 2895

DEVELOPER
THE RYLAND GROUP, INC.
ATTN: MR. JOHN W. MEADE
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

OWNER
RYLAND HOMES AT HOLLIFIELD STATION, LLC.
ATTN: MR. JOHN W. MEADE
THE RYLAND GROUP, INC.
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

WATER QUALITY CONSTRUCTION SPECIFICATIONS

SPECIFICATIONS

1. 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 OBSTRUCTIBLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SWALE BORDERS SHALL BE CLEARED TO A MINIMUM OF 10 FEET FROM THE BOUNDARIES OF THE BORROW AREAS. ALL EXISTING VEGETATION SHALL BE CLEARED TO A MINIMUM OF 10 FEET FROM THE BOUNDARIES OF THE BORROW AREAS. ALL EXISTING VEGETATION SHALL BE CLEARED TO A MINIMUM OF 10 FEET FROM THE BOUNDARIES OF THE BORROW AREAS. ALL EXISTING VEGETATION SHALL BE CLEARED TO A MINIMUM OF 10 FEET FROM THE BOUNDARIES OF THE BORROW AREAS.

2. JOINTS AND CONNECTIONS TO ANTI-SHEEP COLLARS SHALL BE COMPLETELY WATER-TIGHT.

3. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. UNDER ROCK OR SOFT SPONGY OR OTHER UNDESIRABLE SOIL, A 2" THICK LAYER OF SAND OR OTHER SUITABLE MATERIAL SHALL BE SPREAD AND COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

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

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 906, PAR. NO. 3.

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

CARE OF WATER DURING CONSTRUCTION
 ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL NECESSARY 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. ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELLED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DRAINAGE WATERWAY OR 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 FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN THE STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF EXCAVATIONS AND OTHER PARTS OF THE WORK. ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELLED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DRAINAGE WATERWAY OR 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.

STABILIZATION - ALL BORROW AREAS SHALL BE GRaded TO PROVIDE PROPER DRAINAGE AND LEFT IN A SUITABLE CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SLOPES, SPILL AND BORROW AREAS, AND BEDS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (M-30) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

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

3. EARTH FILL
 MATERIAL FOR THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, SUBSAND, OVERSIZE STONES, FROZEN OR OTHER OBSTRUCTIBLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT AND CUT OFF TRENCH SHALL CONFORM TO UNITED SOIL CLASSIFICATION CO. NO. 24 OR C. CONSTRUCTION MAY BE LIMITED TO THE USE OF OTHER MATERIALS ON THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL ENGINEER.

PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN 8-12" THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO THE DENSITY OF THE FILL. THE FOOT PERCENTAGE OF BORROW MATERIAL SHALL BE MAINTAINED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE FILL MATERIAL SHALL BE PLACED IN 8-12" THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO THE DENSITY OF THE FILL. THE FOOT PERCENTAGE OF BORROW MATERIAL SHALL BE MAINTAINED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT.

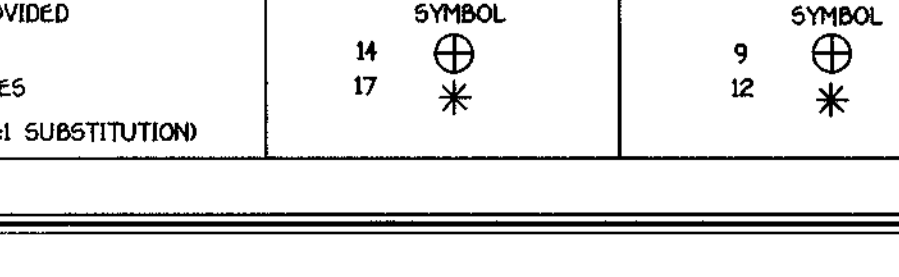
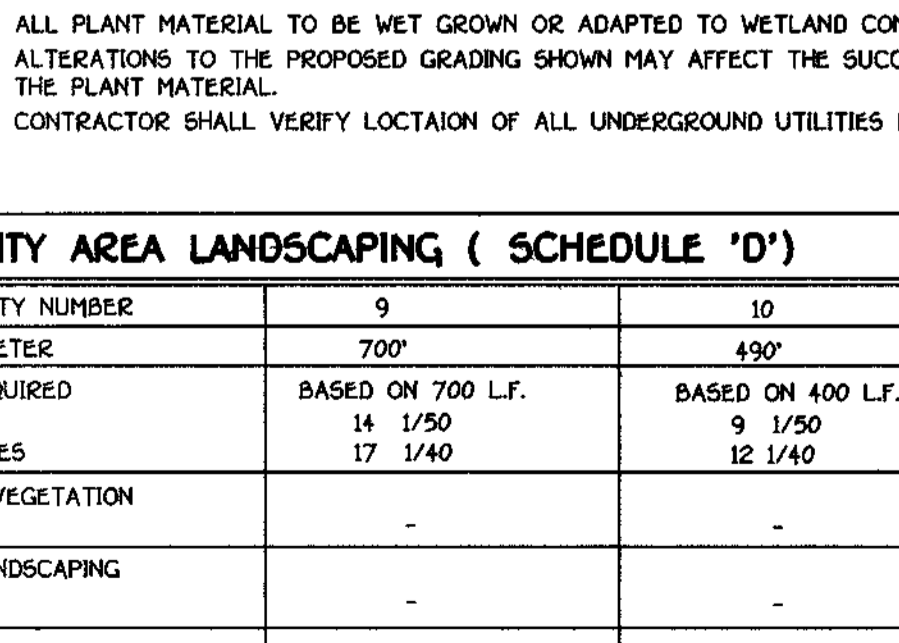
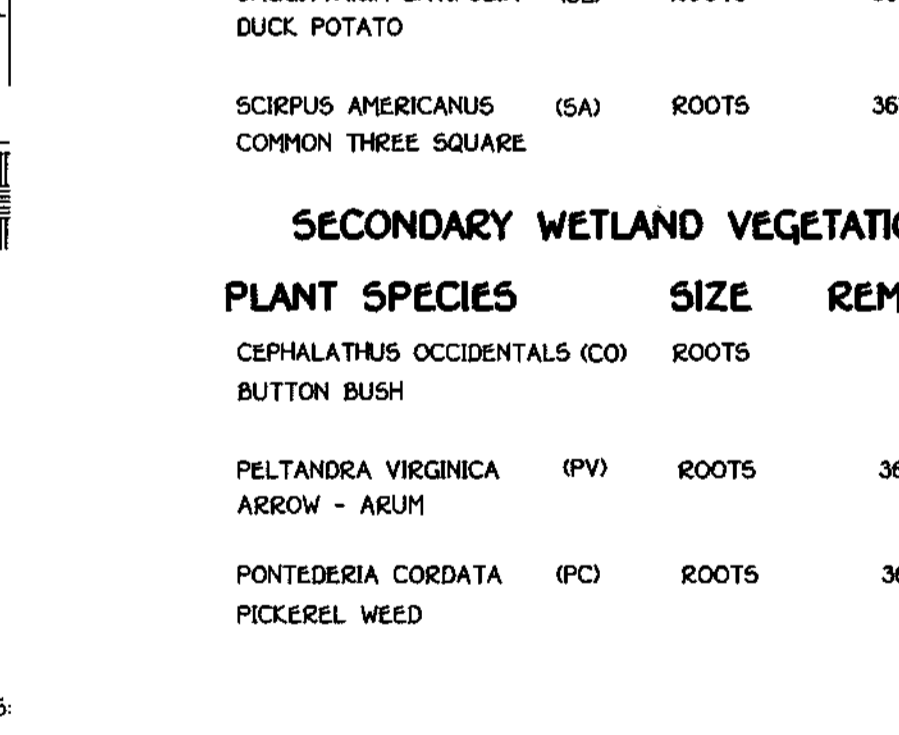
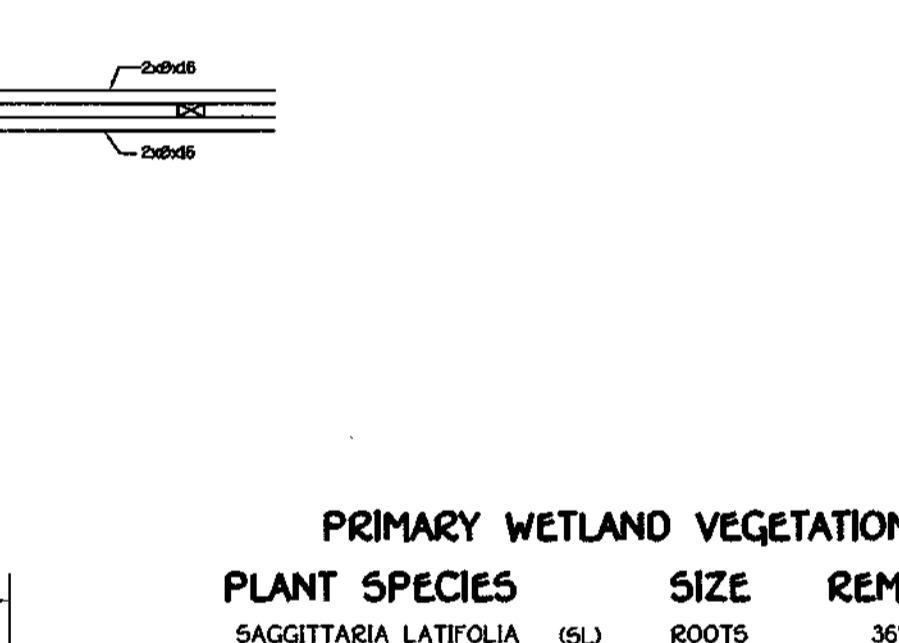
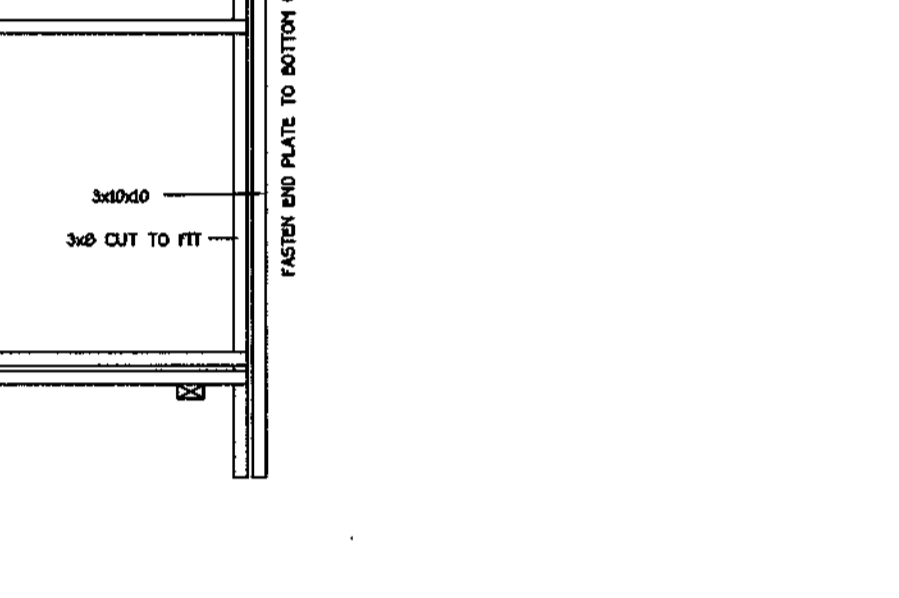
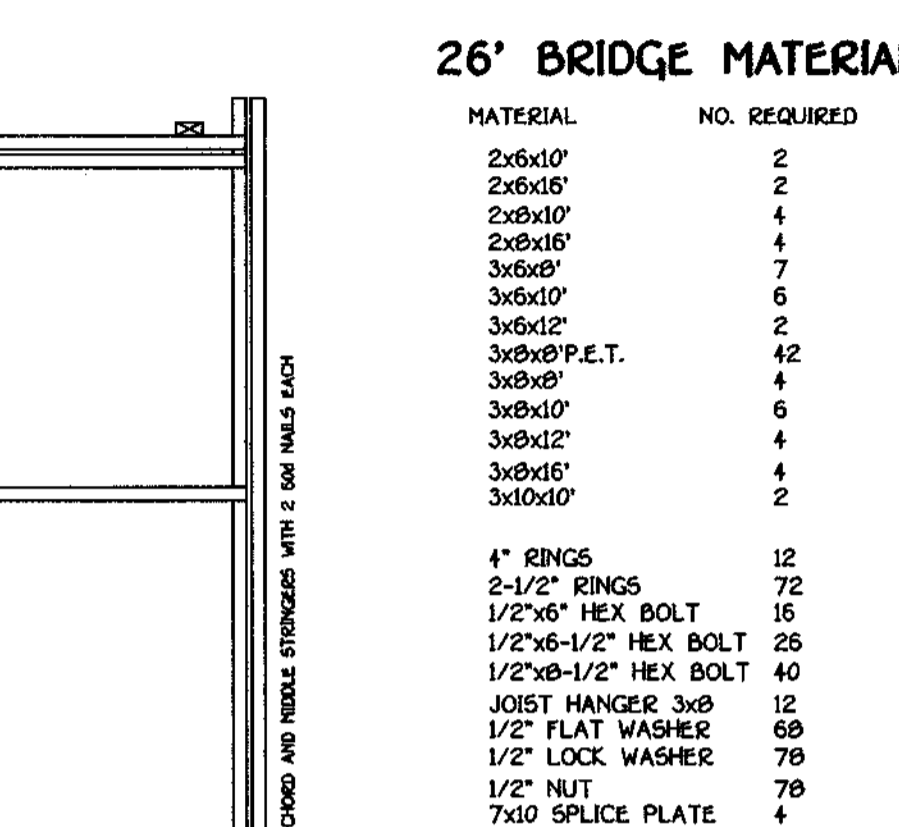
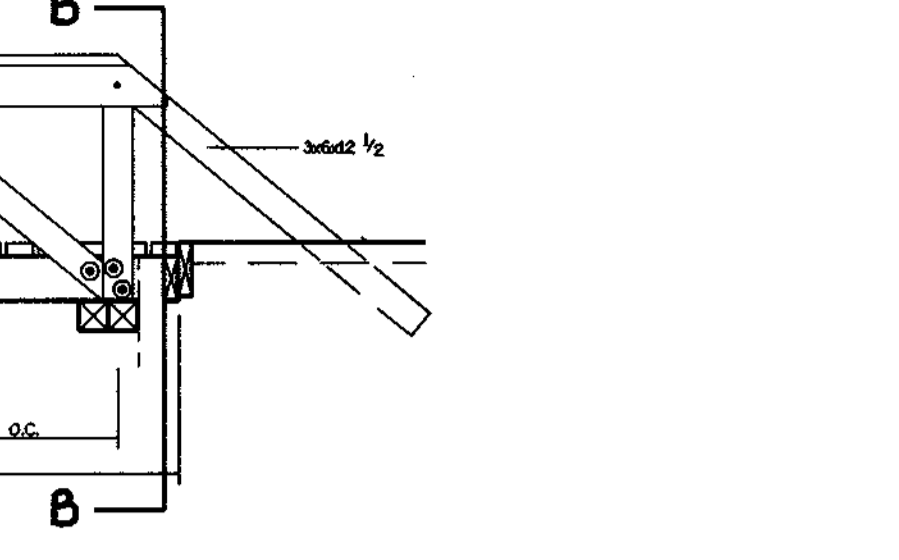
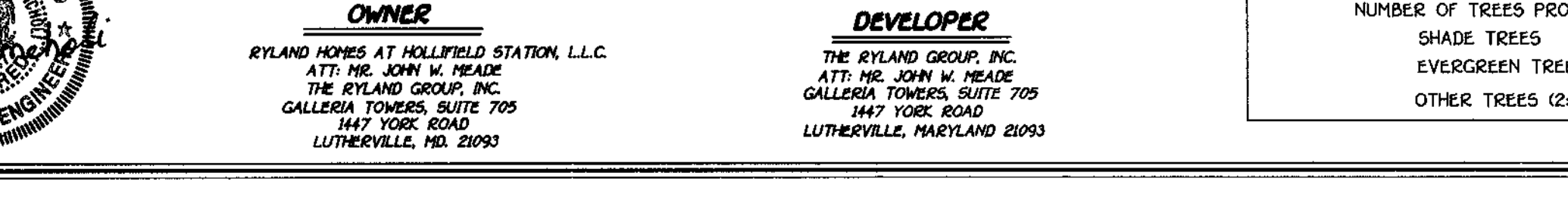
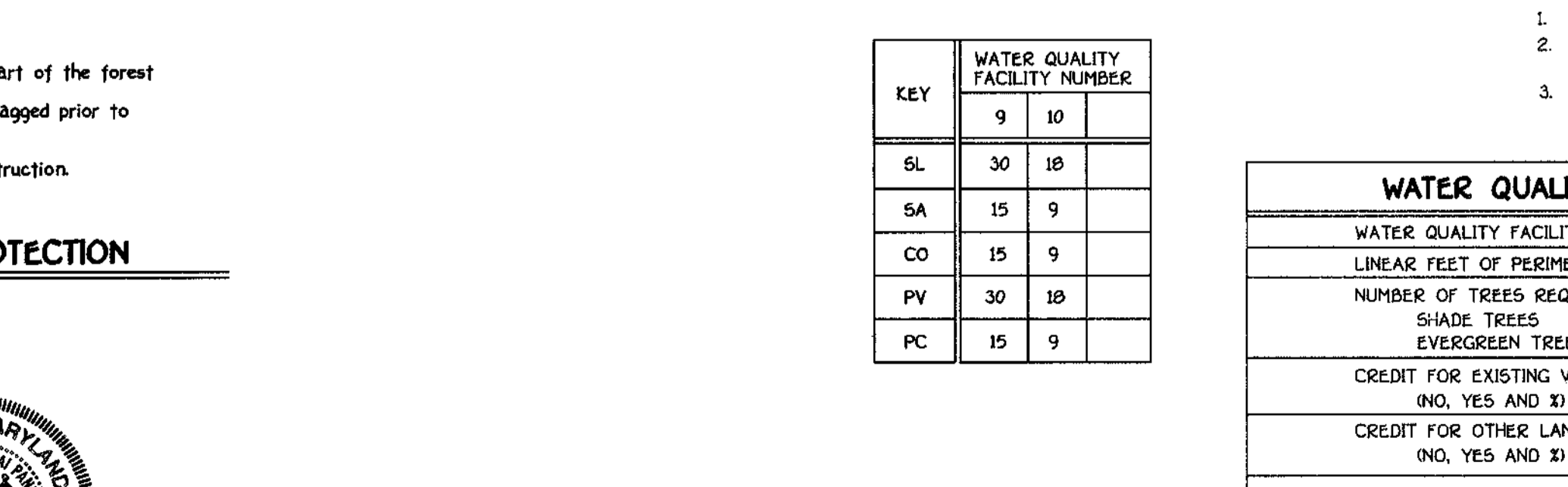
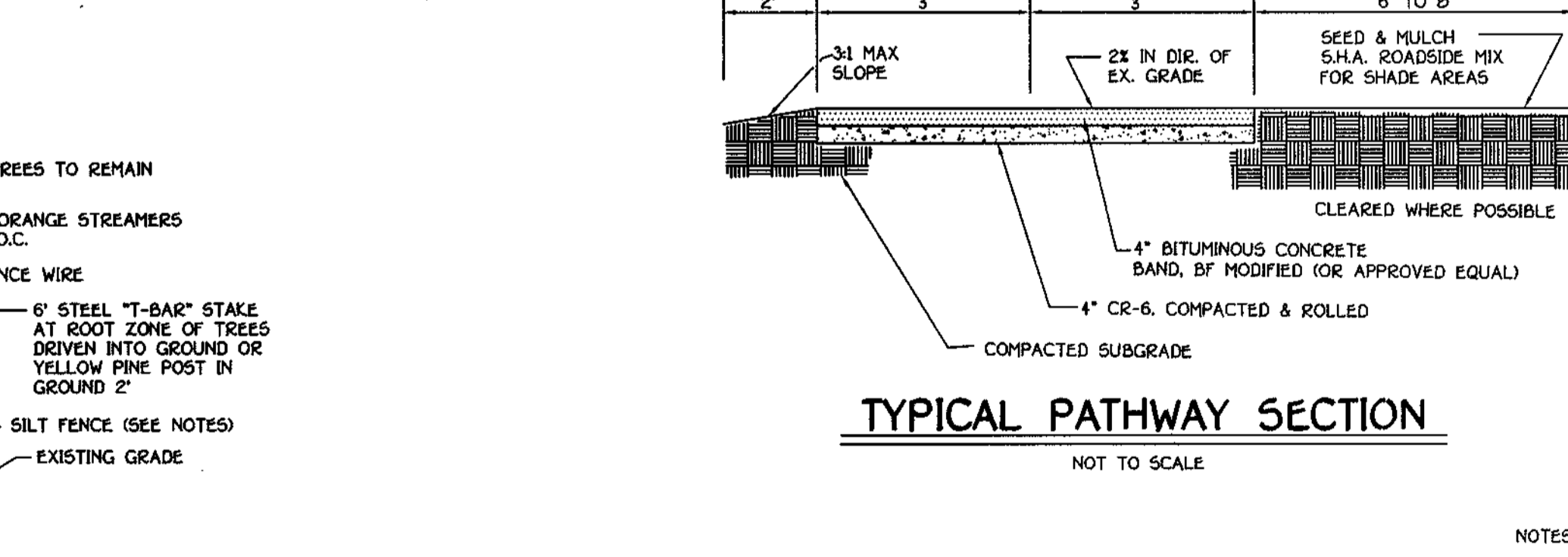
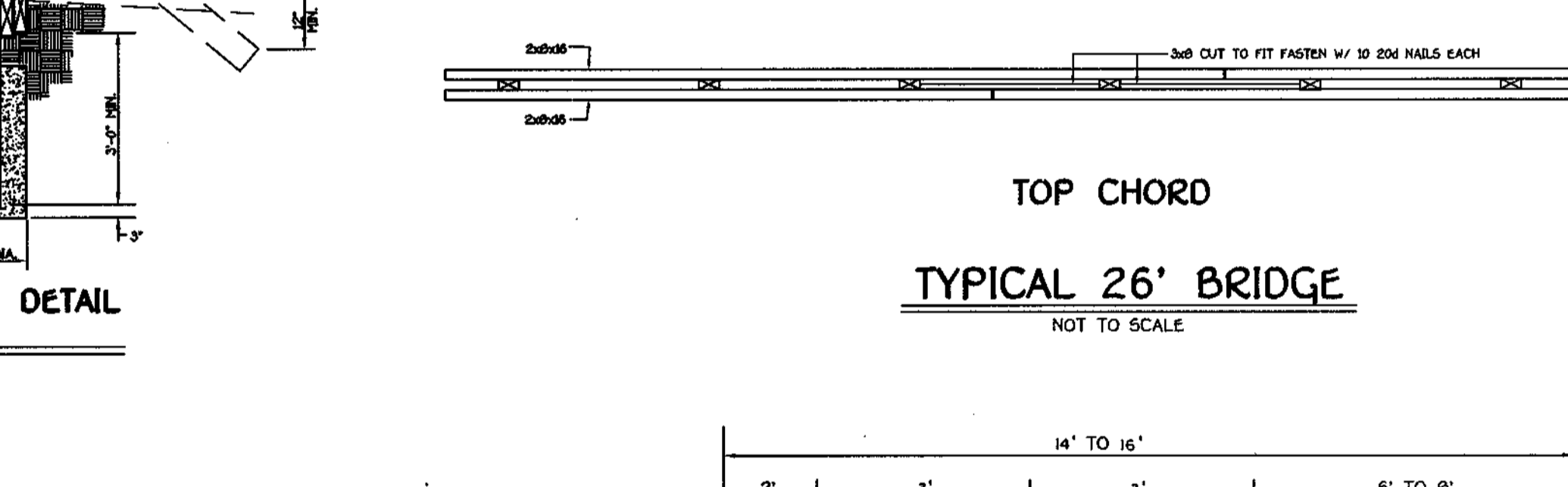
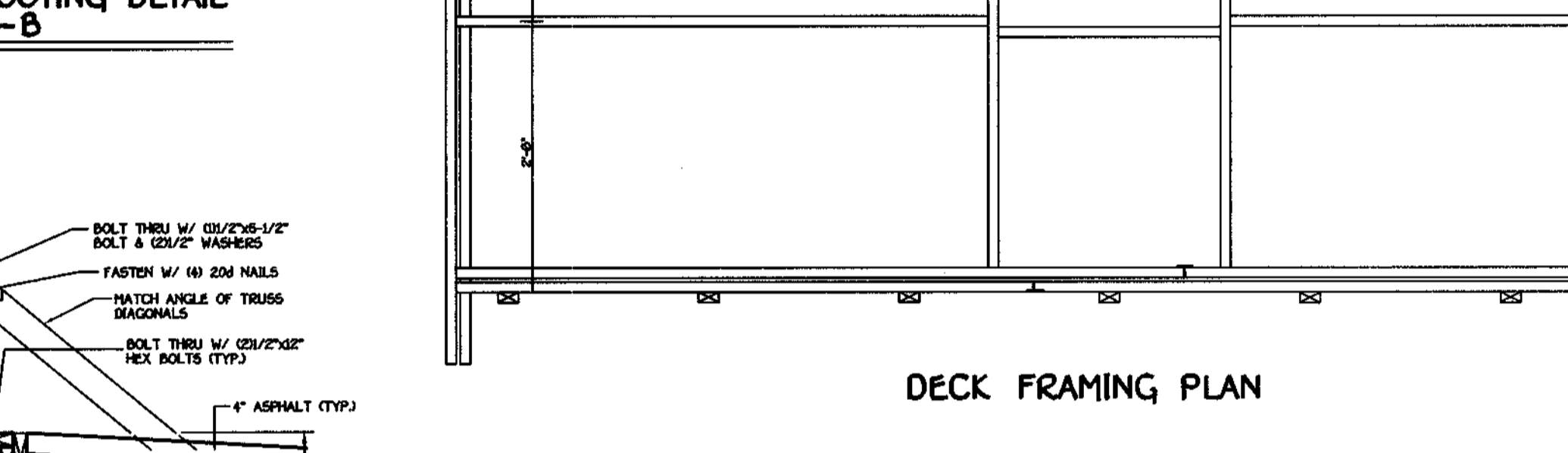
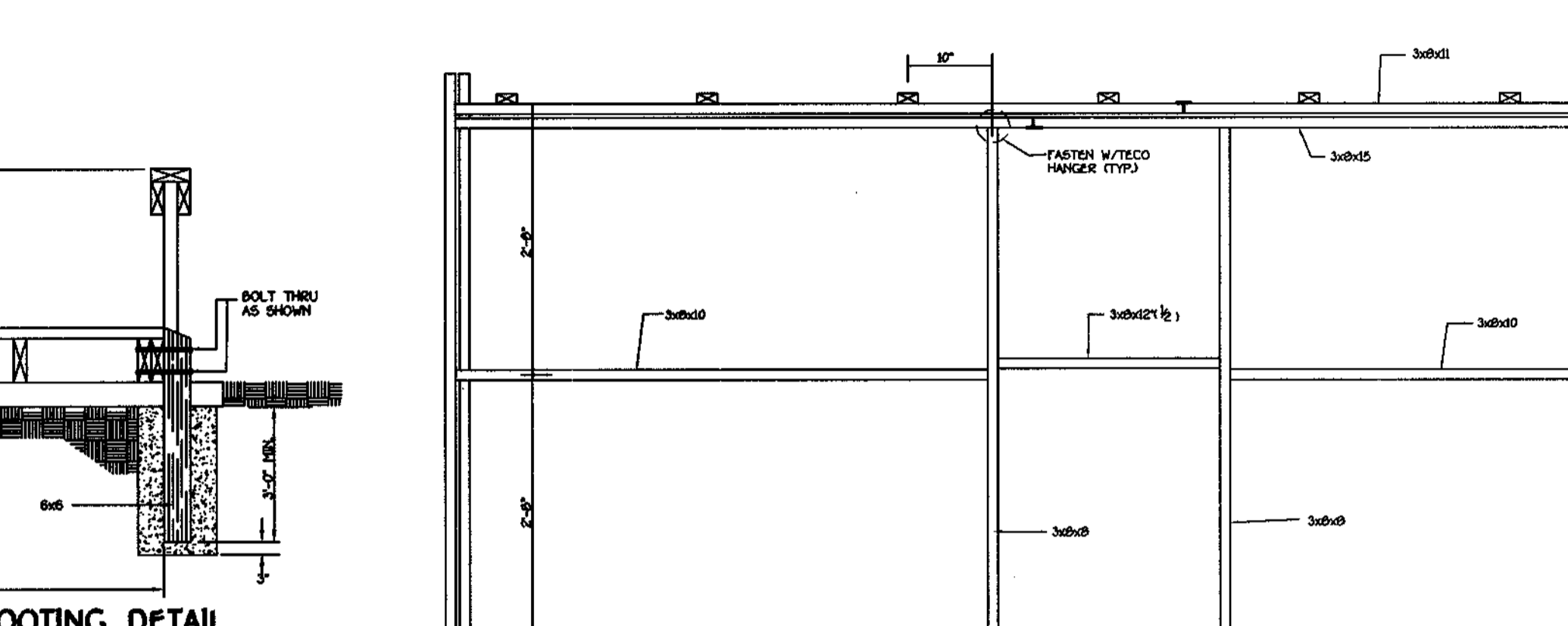
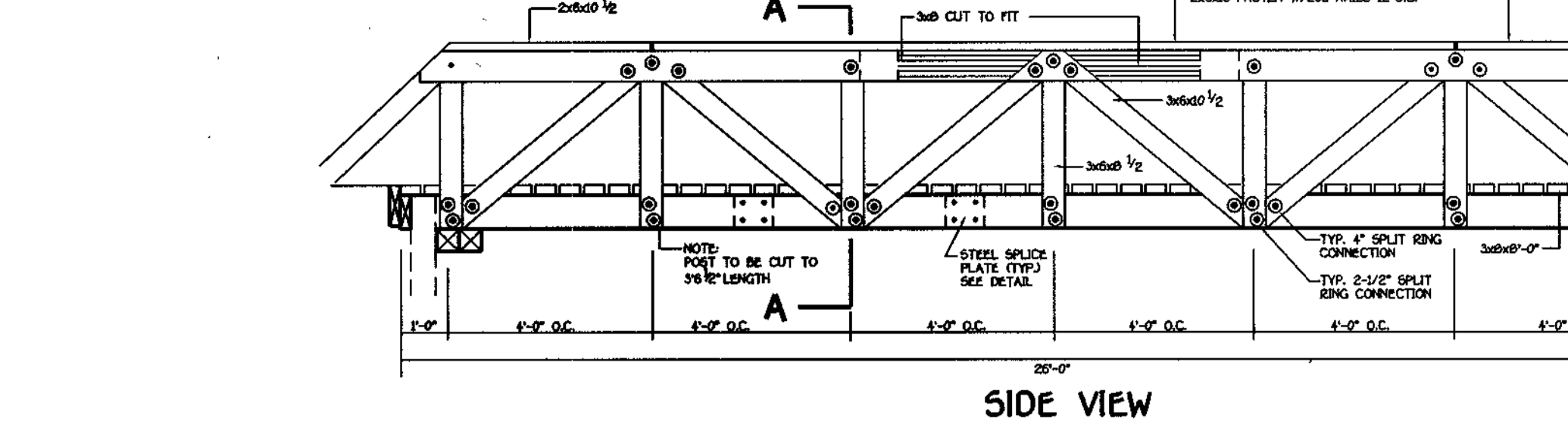
4. EARTH DIKE AND SWALE COMBINATION DEVICE
 NOT TO SCALE

5. SILT FENCE AND TREE PROTECTION
 NOT TO SCALE

6. EARTH DIKE AND SWALE COMBINATION DEVICE
 NOT TO SCALE

7. SILT FENCE AND TREE PROTECTION
 NOT TO SCALE

8. EARTH DIKE AND SWALE COMBINATION DEVICE
 NOT TO SCALE



ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *Joseph P. Parodi*
 DATE: 11-14-97

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROCESS WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
 Signature: _____
 DATE: 11-14-97

26' BRIDGE MATERIALS

| MATERIAL | NO. REQUIRED |
|----------------------|--------------|
| 2x6x10' | 2 |
| 2x6x8' | 2 |
| 2x6x10' | 4 |
| 2x6x16' | 7 |
| 3x6x8' | 4 |
| 3x6x10' | 6 |
| 3x6x12' | 2 |
| 3x6x8' P.E.T. | 42 |
| 3x6x8' | 4 |
| 3x6x10' | 6 |
| 3x6x12' | 4 |
| 3x10x10' | 2 |
| 4" RINGS | 12 |
| 2-1/2" RINGS | 72 |
| 1/2"x6" HEX BOLT | 16 |
| 1/2"x6-1/2" HEX BOLT | 26 |
| 1/2"x8-1/2" HEX BOLT | 40 |
| JOIST HANGER 3x8 | 12 |
| 1/2" FLAT WASHER | 68 |
| 1/2" LOCK WASHER | 78 |
| 1/2" NUT | 78 |
| 7x10 SPLICE PLATE | 4 |

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS CRITICAL REQUIREMENTS.
 Signature: *Joseph P. Parodi*
 DATE: 5/14/98

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Signature: *John R. Klutner*
 DATE: 1/18/98

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *Cindy Harsh*
 DATE: 6/11/98

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *Andrew M. Quake*
 DATE: 5-29-98

AS-BUILT CERTIFICATION

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: _____ PE. NO. _____
 DATE: _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEANOR 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 PONDS(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" (M3-378). 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.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW TRENCH

- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
- REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
- ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED. VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANYTIME.
- CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
- NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.

PRIMARY WETLAND VEGETATION

| PLANT SPECIES | SIZE | REMARKS |
|---------------------------|-------|----------|
| SAGITTARIA LATIFOLIA (SL) | ROOTS | 36" O.C. |
| BUCK POTATO | | |
| SCIRPUS AMERICANUS (SA) | ROOTS | 36" O.C. |
| COMMON THREE SQUARE | | |

SECONDARY WETLAND VEGETATION

| PLANT SPECIES | SIZE | REMARKS |
|-------------------------------|-------|----------|
| CEPHALOTHUS OCCIDENTALIS (CO) | ROOTS | |
| BUTTON BUSH | | |
| PELTAENDRA VIRGINICA (PV) | ROOTS | 36" O.C. |
| ARROW - ARUM | | |
| PONTERDIA CORDATA (PC) | ROOTS | 36" O.C. |
| PICKEREL WEED | | |

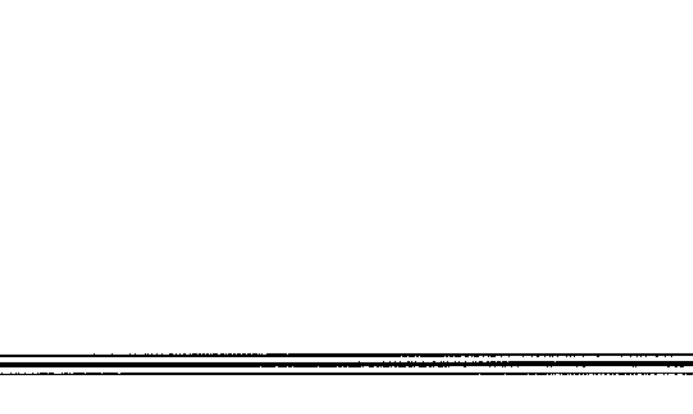
PLANT LIST

| QTY. | KEY | NAME | SIZE |
|------|-----|---|---------------------|
| 23 | ⊕ | ACER RUBRUM (OCTOBER GLORY* OCTOBER RED MAPLE) | 2" - 2 1/2" CALIPER |
| 29 | * | PINUS STROBUS (EASTERN WHITE PINE) | 6' - 8.5' HEIGHT |

* THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, FINANCIAL SURETY FOR THE (52) REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$2 X 100.00 = \$2,000.00.
 + \$1,500.00
 \$ 6,700.00 TOTAL

WATER QUALITY NOTES AND DETAILS
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS " I " AND " J "
 (A RESUBDIVISION OF PARCEL E & G - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT NOS. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 13 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10775 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 30394DT4.DWG (HW 41 - 2095)



OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. HEADE
 THE EYLAND GROUP, INC.
 GALLERIA TOWERS, SUITE 705
 147 YORK ROAD
 LUTHERVILLE, MD. 21093

DEVELOPER
 THE EYLAND GROUP, INC.
 ATT: MR. JOHN W. HEADE
 THE EYLAND GROUP, INC.
 GALLERIA TOWERS, SUITE 705
 147 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

| SHEET INDEX | |
|-------------|---|
| SHEET No. | SHEET |
| 1 | TITLE SHEET |
| 2 | STONEHOUSE DR., GAITHER HOLLOW CT. & MILLERS WAY DR. PLAN & PROFILE |
| 3 | MILLERS WAY DRIVE PLAN & PROFILE |
| 4 | MILLERS WAY DRIVE PROFILE & TYPICAL ROAD SECTIONS |
| 5 | WATER QUALITY, STREET TREE, GRADING & SEDIMENT CONTROL PLAN |
| 6 | WATER QUALITY, STREET TREE, GRADING & SEDIMENT CONTROL PLAN |
| 7 | DRAINAGE AREA MAP & LANDSCAPE PLAN |
| 8 | DRAINAGE AREA MAP & LANDSCAPE PLAN |
| 9 | STORM DRAIN PROFILES |
| 10 | STORM DRAIN PROFILES |
| 11 | DETAIL SHEET |
| 12 | SEDIMENT CONTROL NOTES & DETAILS |
| 13 | WATER QUALITY NOTES AND DETAILS |

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. Dauter 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cindy Hamilton 6/12/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John P. ... 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FINAL ROAD CONSTRUCTION AND GRADING PLANS

DANIELS MILL OVERLOOK

SECTION 3 AREA 1

LOTS 230 THRU 276 AND PARCELS 'I' & 'J'

(A RESUBDIVISION OF PARCELS 'E' AND 'G' - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)

ZONED R-ED

TAX MAP NO. 17 PART OF PARCEL 41 AND 547

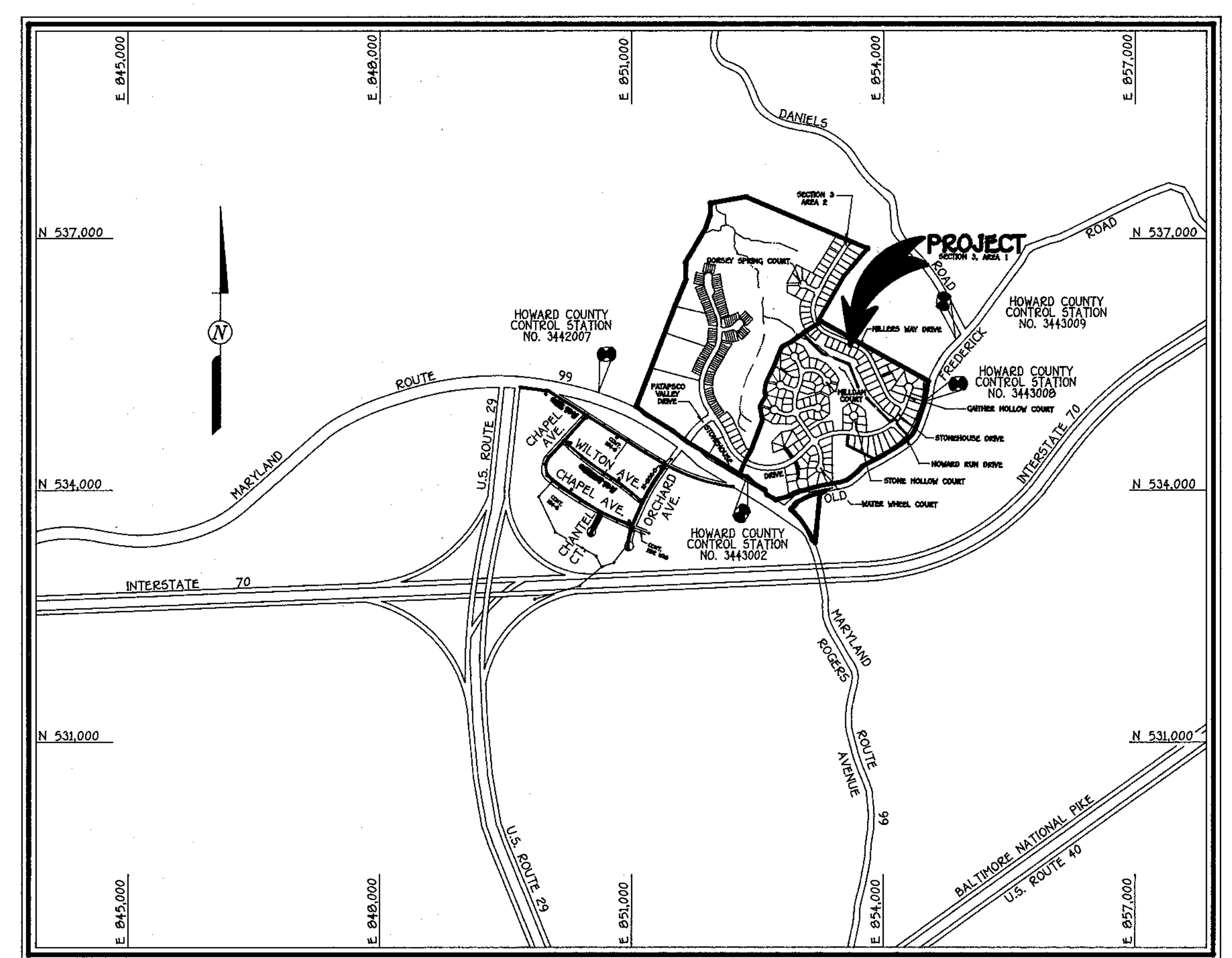
SECOND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

| STREET LIGHT CHART | | | | |
|--------------------|----------------------|---------|---------|--|
| DWG. No. | STREET NAME | STATION | OFF-SET | FIXTURE/POLE TYPE |
| 2 | MILLERS WAY DRIVE | 2+87 | 16'L | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 7+56 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 11+52 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 2 | GAITHER HOLLOW COURT | 0+30 | 10'L | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |
| 3 | MILLERS WAY DRIVE | 15+52 | 16'R | 100-WATT "TRADITIONAIRE" HPS VAPOR POST TOP FIXTURE ON A 14-FOOT BLACK FIBERGLASS POLE |

| TRAFFIC CONTROL SIGNS | | | | |
|-----------------------|---------|--------|----------------|-----------|
| STREET NAME | STATION | OFFSET | POSTED SIGN | SIGN CODE |
| MILLERS WAY DRIVE | 0+38 | 15'L | STOP | R1-1 |
| MILLERS WAY DRIVE | 1+00 | 15'R | SPEED LIMIT 30 | R2-1 |
| MILLERS WAY DRIVE | 11+00 | 15'R | SPEED LIMIT 30 | R2-1 |
| MILLERS WAY DRIVE | 12+40 | 15'L | SPEED LIMIT 30 | R2-1 |

| ROAD CLASSIFICATION CHART | | |
|---------------------------|----------------|-----------|
| ROAD NAME | CLASSIFICATION | R/W WIDTH |
| GAITHER HOLLOW COURT | CUL-DE-SAC | 50' |
| STONEHOUSE DRIVE | LOCAL ROAD | 50' |
| MILLERS WAY DRIVE | LOCAL ROAD | 50' |



VICINITY MAP
 SCALE: 1" = 1200'

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
 - HOWARD COUNTY STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
 - MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, AS AMENDED.
 - SOIL CONSERVATION SERVICE 1993 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - SOIL CONSERVATION SERVICE 1993 MARYLAND STANDARDS AND SPECIFICATION FOR POND CONSTRUCTION (CODE 378)
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF DEPARTMENT OF PUBLIC WORKS, DIVISION OF CONSTRUCTION INSPECTION AT 410-313-1800 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- TOPOGRAPHY SHOWN HEREON IS FROM FIELD RUN SURVEY BY FISHER, COLLINS & CARTER, INC. 2' CONTOUR INTERVAL AUGUST, 1997.
- THIS HORIZONTAL AND VERTICAL DATUM SHOWN ARE BASED ON THE FOLLOWING NAD83 HOWARD COUNTY CONTROL STATIONS:

| | | |
|------------------------------------|----------------|-----------------|
| HOWARD COUNTY MONUMENT NO. 3443008 | ✓ N 535051.402 | ELEV. = 479.13' |
| HOWARD COUNTY MONUMENT NO. 3443009 | ✓ E 854471.468 | ELEV. = 464.01' |
| | ✓ N 535005.602 | E 854860.710 |
| HOWARD COUNTY MONUMENT NO. 3443002 | ✓ N 534193.678 | ELEV. = 484.23' |
| | ✓ E 852269.574 | |
| HOWARD COUNTY MONUMENT NO. 3443007 | ✓ N 535080.370 | ELEV. = 470.18' |
| | ✓ E 850670.146 | |
- NOISE STUDY WAS PROVIDED BY M.A. DIRCKS AND CO., INC. AND APPROVED ON JUNE 15, 1995.
- FOREST DELINEATION AND WAS PROVIDED BY M.A. DIRCKS AND CO., INC. DATED JUNE, 1993. EXISTING FOREST CONSERVATION PER PLAT 12765.
- THE 100 YR. FLOODPLAIN AS SHOWN ON THESE PLANS ARE BASED ON THE FLOODPLAIN STUDY THAT WAS PROVIDED BY FISHER, COLLINS & CARTER, INC.
- THE WETLANDS STUDY WAS PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS UNDER 5-95-18 JUNE 15, 1995.
- THE TRAFFIC STUDY WAS PROVIDED BY THE TRAFFIC GROUP AND APPROVED ON JUNE 15, 1995.
- THE SOILS INVESTIGATION REPORT WAS PREPARED BY G.T.A. INC. ON NOVEMBER 1995.
- THE SKETCH PLAN 5-95-18 WAS APPROVED ON 6/15/95. PRELIMINARY PLANS WERE WAIVED UNDER WF-97-02 ON AUGUST 12, 1996.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THEIR PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)".
- A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS DEVELOPMENT.
- EXISTING UTILITIES ARE BASED ON CONTRACT 14-3580-D & 14-3581-D.
- SECTION 16.116(a) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PROHIBITS CLEARING, GRADING OR CONSTRUCTION ACTIVITY WITHIN THE REQUIRED WETLAND OR STREAM BANK BUFFERS. A WAIVER WF-95-14 HAS BEEN APPROVED FOR GRADING WITHIN THE STREAM BUFFER AND WETLAND BUFFER ON APRIL 29, 1995.
- QUANTITY CONTROL, STORMWATER MANAGEMENT ANALYSIS WAS APPROVED ON APRIL 27, 1996 UNDER F-96-128.
- WATER QUALITY IS PROVIDED BY SHALLOW MARSH WATER QUALITY FACILITY #9#10 TO BE PRIVATELY OWNED & MAINTAINED BY THE HOMEOWNER'S ASSOC.
- LETTER OF AUTHORIZATION FOR DISTURBANCE IN WETLAND AND STREAM BUFFER IS 95-NI-081/19950807.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21242
 410.461-2995

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATTN: MR. JOHN W. HEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE #705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

DEVELOPER
 THE RYLAND GROUP, INC.
 ATTN: MR. JOHN W. HEADE
 GALLERIA TOWERS
 SUITE #705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

| No. | Revisions | Date |
|-----|--|--------|
| 1 | Revise pipe from RCCP to HDPE 11 to M-2 Sheets 2, 5, 7 & 10. | 5-5-02 |
| | Revise rip rap apron at S-8 to rip rap basin Sheets 3, 6, 9 & 11. | 5-5-02 |

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
Jayesh V. Panholi
 JAYESH V. PANCHOLI
 DATE: 11-14-97


Jayesh V. Panholi
 As-Built 9/20/01

DANIELS MILL OVERLOOK
 SECTION 3 AREA 1
 LOTS 230 THRU 276 AND PARCELS 'I' & 'J'
 ZONED: R-ED
 (A RESUBDIVISION OF PARCELS 'E' AND 'G' - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 TAX MAP No. 17 PART OF PARCEL 41 AND 547
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 1 OF 13

**E CURVE DATA
MILLERS WAY DRIVE**
 STA. 0+37.75 TO STA. 2+07.07
 R = 316.00'
 L = 249.34'
 Δ = 45° 12' 31"
 T = 131.57'
 CHD = N 47° 39' 49" W, 242.92'

**E CURVE DATA
GAITHER HOLLOW COURT**
 STA. 0+70.13 TO STA. 1+30.82
 R = 500.00'
 L = 55.04'
 Δ = 00° 22' 54"
 T = 27.87'
 CHD = N 10° 32' 29" E, 55.00'

**E CURVE DATA
GAITHER HOLLOW COURT**
 STA. 1+37.43 TO STA. 2+07.42
 R = 100.00'
 L = 09.49'
 Δ = 30° 52' 00"
 T = 30.00'
 CHD = N 05° 04' 55" W, 48.30'

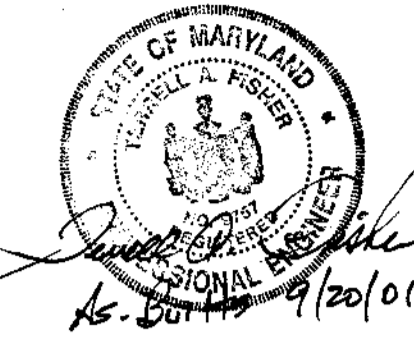
**DANIELS MILL OVERLOOK
SECTION 3 AREA 1**
 LOTS 250 THRU 276
 AND PARCELS 1 & J
 ZONING: R-8D

DEVELOPER: THE RYLAND GROUP
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705, 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

OWNER: FRIJLAND HOMES AT HOLLYFIELD STATION, LLC
 ATTENTION: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

SCALE: AS SHOWN DATE: OCTOBER 1, 1997 DWG. NO. 2 OF 13
 DES. J.V.P. DRN. J.A.U., J.C.L. CHK.

FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 TEL: (410) 61-2855 FAX: (410) 750-3784



NOTE: EX. STILLING BASIN & EX. 21' RCCT FROM EX. I-11 TO EX. 5-5 TO BE REMOVED. INSTALL RCCT 21' RCCT FROM EX. I-11 TO RCCT M-2

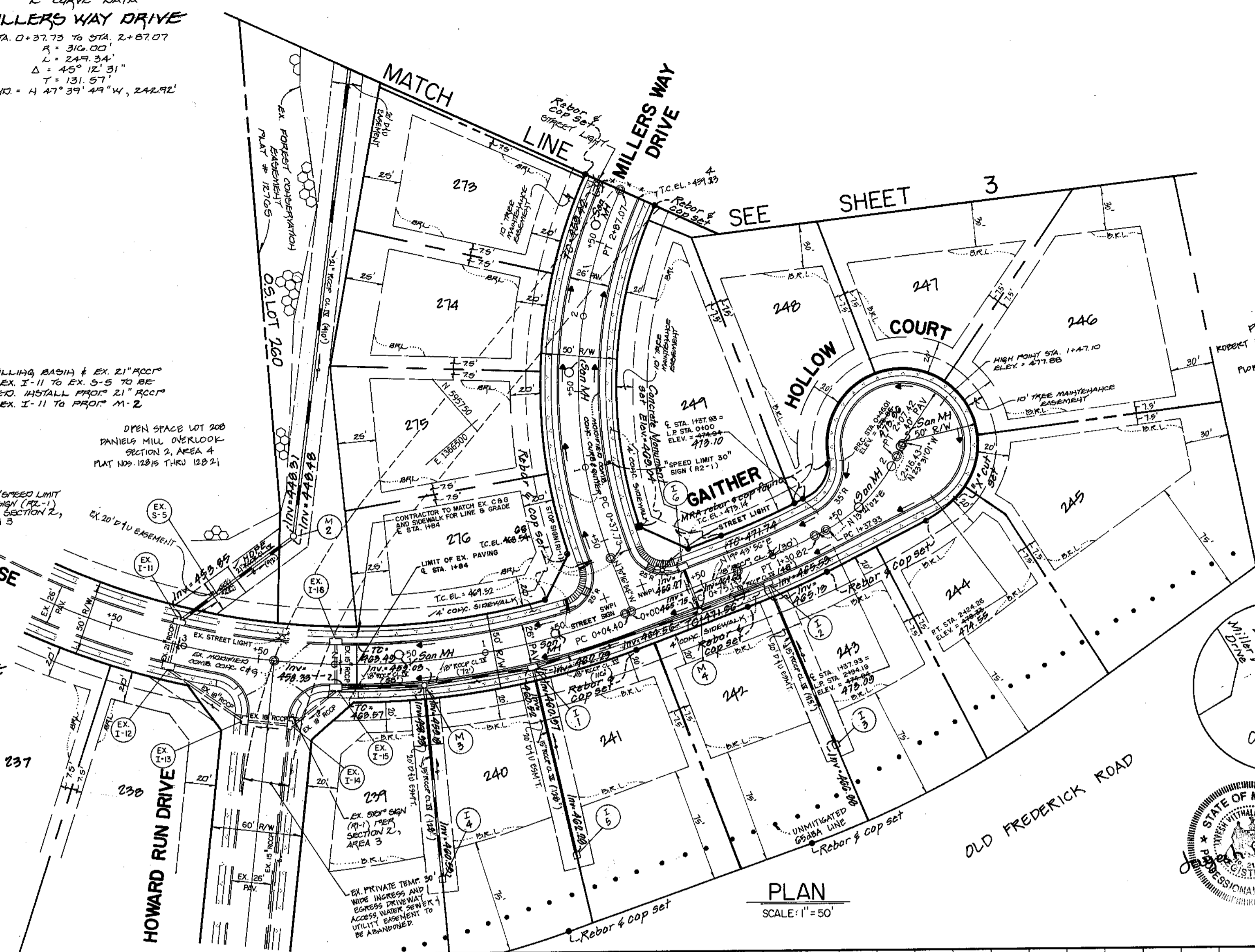
OPEN SPACE LOT 200 DANIELS MILL OVERLOOK SECTION 3, AREA 4 PLAT 109, 1289 THRU 10921

**E CURVE DATA
STONEHOUSE DRIVE**
 STA. 0+04.40 TO STA. 1+50.00
 R = 900.00'
 L = 193.00'
 Δ = 17° 36' 05"
 T = 77.41'
 CHD = S 26° 31' 57" W, 193.00'

APPROVED
 DEPARTMENT OF PLANNING AND ZONING
Candy Hamilton 6/12/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

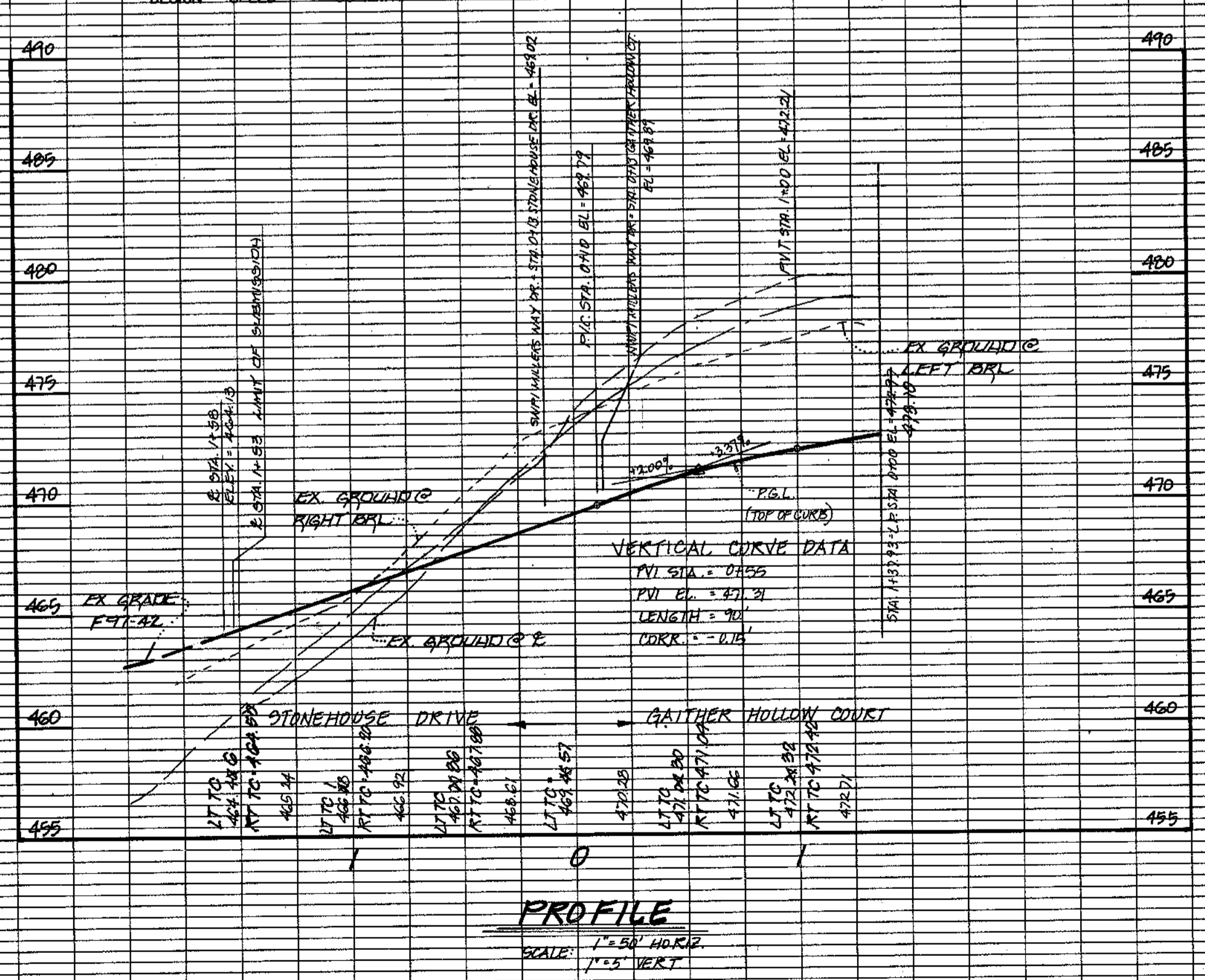
APPROVED
 DEPARTMENT OF PLANNING AND ZONING
W.D. ... 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. ... 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE



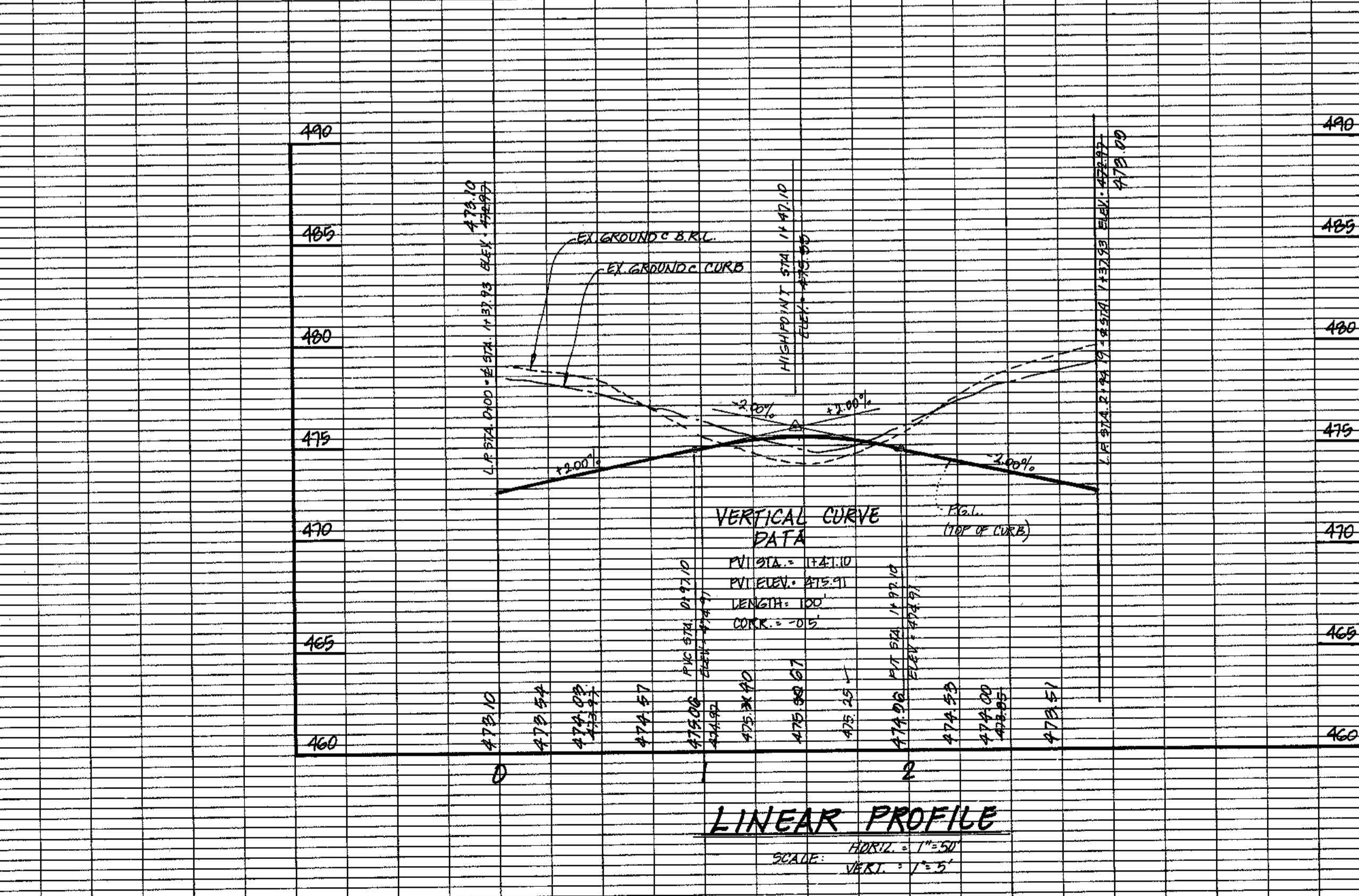
PLAN
 SCALE: 1" = 50'

STONEHOUSE DRIVE
 DESIGN SPEED = 30 M.P.H.

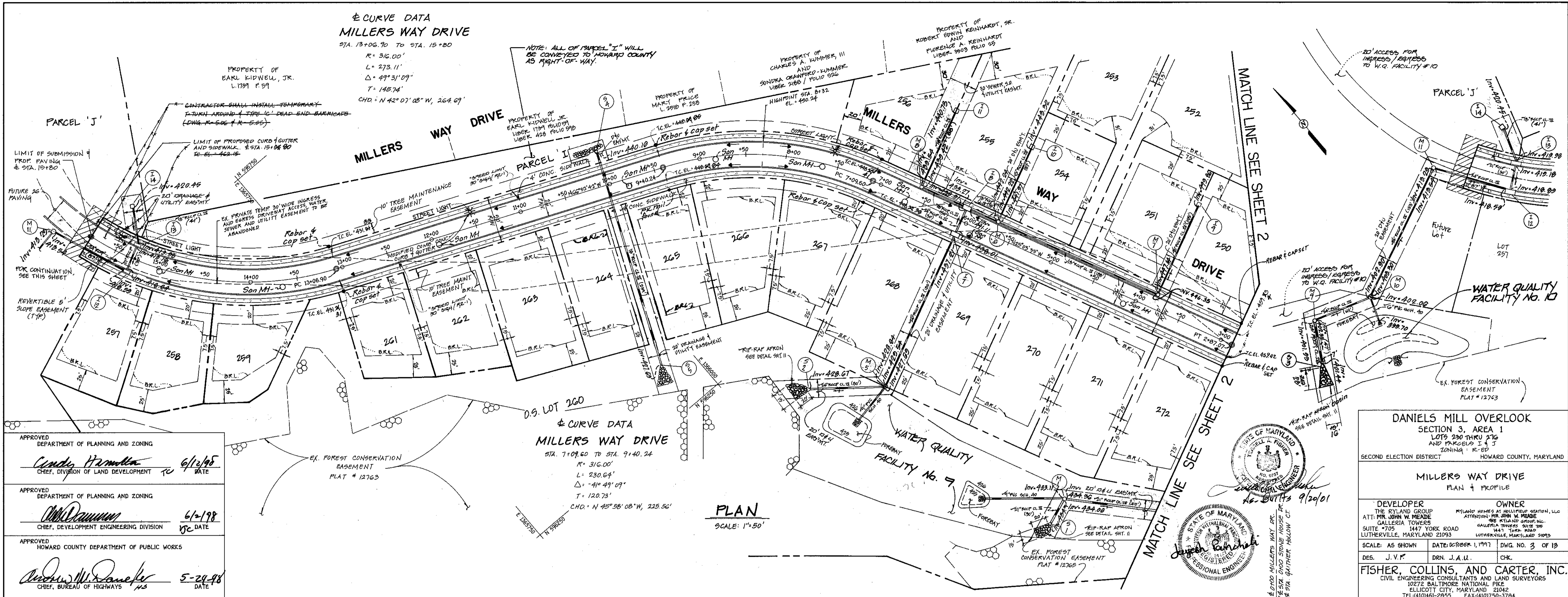


PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 5'

GAITHER HOLLOW COURT
 DESIGN SPEED = 25 M.P.H.



LINEAR PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 5'



APPROVED
 DEPARTMENT OF PLANNING AND ZONING
Candy Hamilton 6/12/95
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED
 DEPARTMENT OF PLANNING AND ZONING
W.D. Dawson 6/12/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew W. Daneker 5-24-98
 CHIEF, BUREAU OF HIGHWAYS DATE

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 JAMES W. FISHER
 LICENSE NO. 11100
 9/20/01

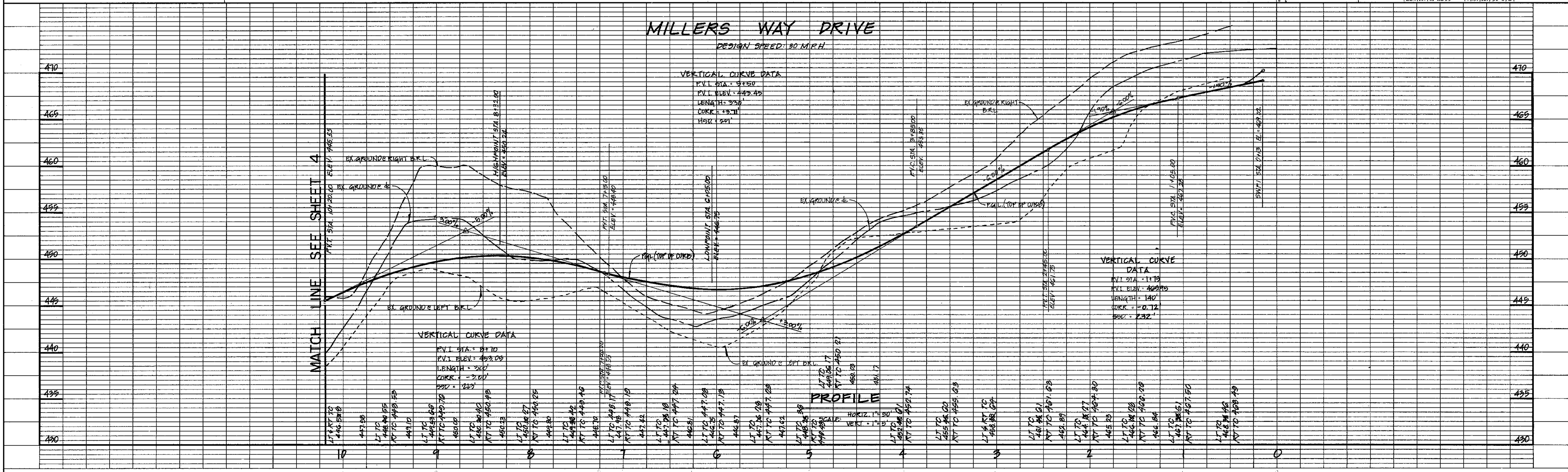
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 250 THRU 276
 AND PARCELS I & J
 ZONING: R-6D
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

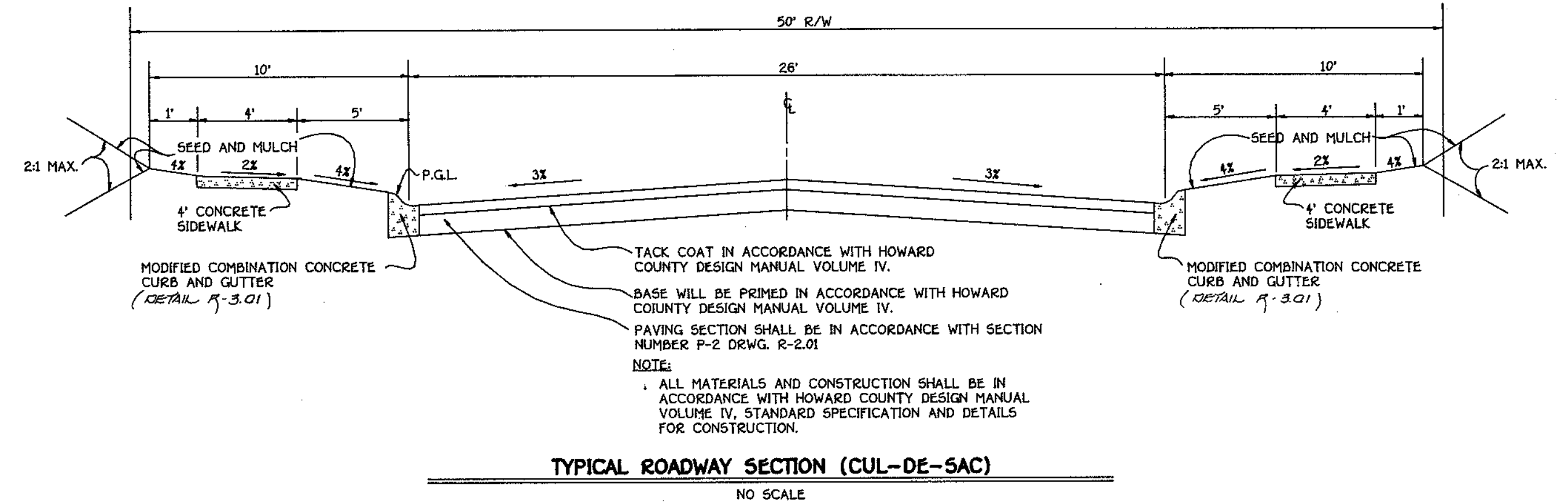
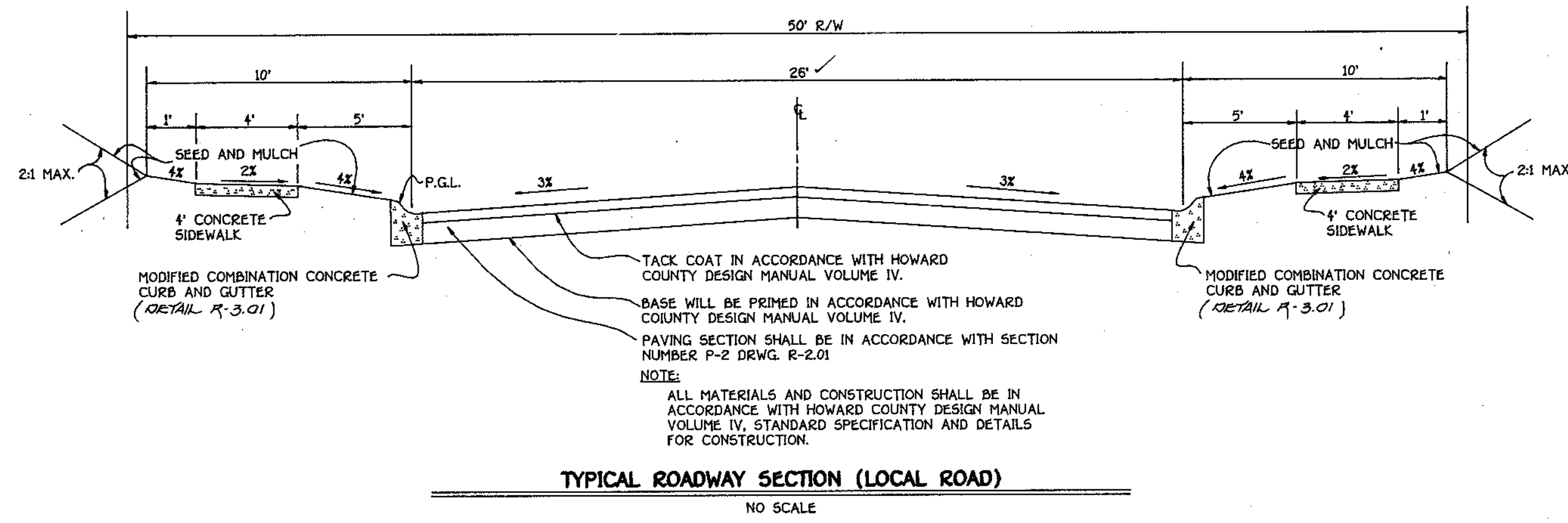
MILLERS WAY DRIVE
 PLAN & PROFILE

DEVELOPER
 THE RYLAND GROUP
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE #705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

OWNER
 RYLAND HOMES AT HOLLYFIELD STATION, LLC
 ATTENTION: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE #705 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

SCALE: AS SHOWN DATE: OCTOBER 1, 1997 DWG. NO. 3 OF 13
 DES. J.V.F. DRN. J.A.U. CHK.
FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS
 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 TEL: (410) 461-2955 FAX: (410) 750-3784





| ROADWAY INFORMATION CHART | | | | | |
|---------------------------|----------------|--------------|--------|----------------|----------------|
| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | STATION LIMITS | PAVING SECTION |
| STONEHOUSE DRIVE | LOCAL ROAD | 30 MPH | R-ED | 0+00 TO 1+50 | P-2 |
| MILLERS WAY DRIVE | LOCAL ROAD | 30 MPH | R-ED | 0+00 TO 15+00 | P-2 |

| ROADWAY INFORMATION CHART | | | | | |
|---------------------------|----------------|--------------|--------|-----------------|----------------|
| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | STATION LIMITS | PAVING SECTION |
| GATHER HOLLOW COURT | CUL-DE-SAC | 25 MPH | R-ED | 0+00 TO 2+16.43 | P-2 |

APPROVED
DEPARTMENT OF PLANNING AND ZONING
Cindy Hamada 6/12/98
CHIEF, DIVISION OF LAND DEVELOPMENT TO DATE

APPROVED
DEPARTMENT OF PLANNING AND ZONING
Mark Dammann 6/2/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION VJC DATE

APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Daniels 5-29-98
CHIEF, BUREAU OF HIGHWAYS HS DATE

DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 290 THRU 276
AND PARCELS I & J
ZONING: R-ED
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

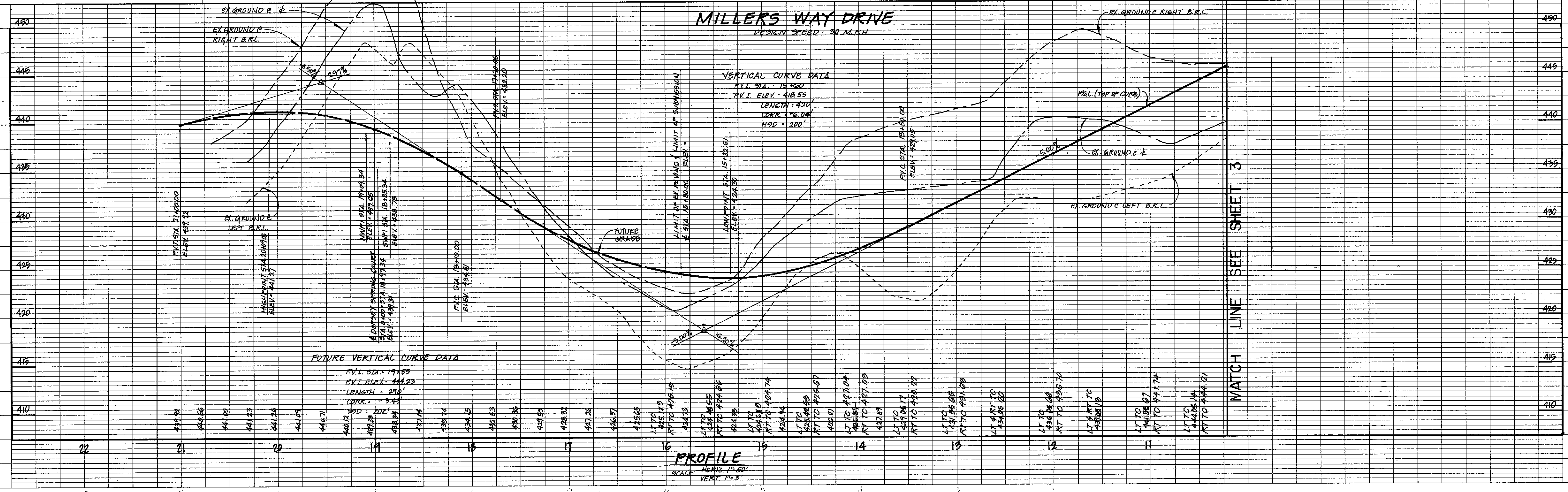
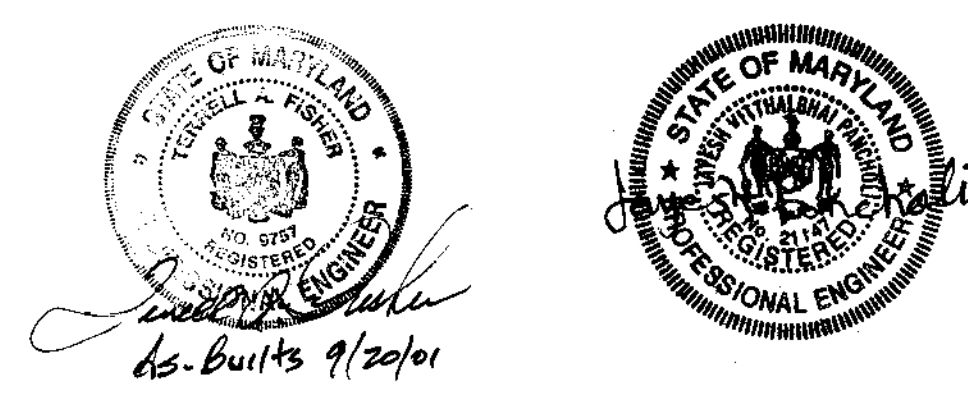
MILLERS WAY DRIVE
PROFILE
&
TYPICAL ROADWAY SECTIONS

DEVELOPER: THE RYLAND GROUP
ATTN: MR. JOHN W. READE
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21093

OWNER: RYLAND HOMES AT BOLLIFIELD STATION, LLC
ATTENTION: MR. JOHN W. READE
THE RYLAND GROUP, INC. GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21093

SCALE: AS SHOWN DATE: OCTOBER 1, 1997 DWG. NO. 4 OF 13
DES. J.V.P. DRN. J.A.U. CHK.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS AND LAND SURVEYORS
10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
TEL: (410) 481-2855 FAX: (410) 750-3784



| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | ACER RUBUM 'OCTOBER GLORY' RED MAPLE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

- 20 STREET TREES
- 25 STREET TREES (THIS SHEET)

NOTE: WATER QUALITY FACILITY #9 TO BE PHYSICALLY OWNED AND MAINTAINED BY THE H.O.A.
WATER QUALITY FACILITY #9 (SHALLOW MARSH)
SEE SHEETS 7 & 8 FOR PLANTINGS PERTAINING TO THE SHALLOW MARSH.

EX. 100 YEAR FLOOD PLAIN, DRAINAGE AND UTILITY EASEMENT PLAT No. 12234
6' x 8' RIP-RAP APRON AT 1' PITCH PARALLEL TO 6' x 8' APRON. 9' THICKNESS, 15'



ENGINEER'S CERTIFICATE
I hereby 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 Howard Soil Conservation District.
Joseph Runchi
Signature of Engineer
11-14-97
Date

DEVELOPER'S CERTIFICATE
I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
John Meade
Signature of Developer
11-14-97
Date

Reviewed for Howard County Soil Conservation District and Meets Technical Requirements
Clyde Simms
S.D.A. - Nat'l Resources Conservation Service
5/18/98
Date

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.
John P. Robinson
District Howard Soil Conservation Dist.
5/18/98
Date

Approved: Department Of Planning And Zoning
Cindy Hamilton
Chief, Division Of Land Development
6/12/98
Date

Approved: Chief, Development Engineering Division
John P. Robinson
6/2/98
Date

Approved: Howard County Department Of Public Works
Richard M. Danek
Chief, Bureau Of Highways
5-29-98
Date

| LEGEND | |
|--------|------------------------------------|
| Symbol | Description |
| | Existing Contour 2' Interval |
| | Existing Contour 10' Interval |
| | Proposed Contour 2' Interval |
| | Proposed Contour 10' Interval |
| | + 624 Spot Elevation |
| | -S -S Silt Fence |
| | -E -E Earth Dike |
| | -X -X Tree Protection |
| | Existing Tree Line |
| | Limit Of Disturbance |
| | Existing Street Tree |
| | SS -SS Super Silt Fence |
| | Inlet Protection |
| | S.C.E. Stone Construction Entrance |

25. Dur. Its 9/20/01

**WATER QUALITY,
STREET TREE, GRADING AND SEDIMENT CONTROL PLAN**
DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS " I " AND " J "
(A RESUBDIVISION OF PARCELS 40 - DANIELS MILL OVERLOOK,
SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
ZONING: R-ED
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 1997
SHEET 5 OF 13

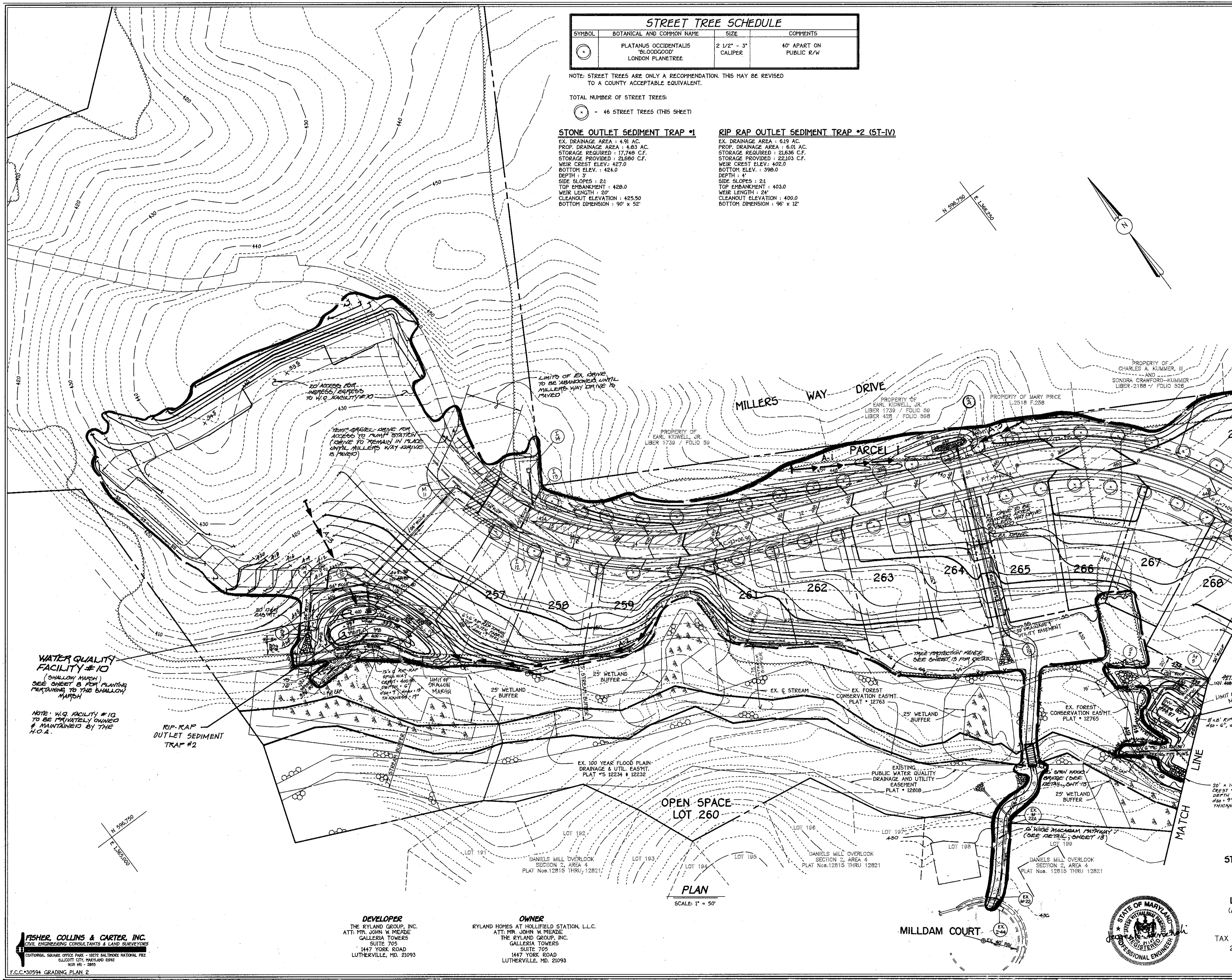


PLAN
SCALE: 1" = 50'

DEVELOPER
THE RYLAND GROUP, INC.
ATT: MR. JOHN W. MEADE
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

OWNER
RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
ATT: MR. JOHN W. MEADE
THE RYLAND GROUP, INC.
GALLERIA TOWERS
SUITE 705
1447 YORK ROAD
LUTHERVILLE, MD. 21093

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE PARK - 10775 BALDOR NATIONAL FEE
ELLIOTT CITY, MARYLAND 20611
(410) 481-2005
F.C.C.-30594 GRADING PLAN 1



| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| (*) | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:
(*) = 46 STREET TREES (THIS SHEET)

STONE OUTLET SEDIMENT TRAP #1
 EX. DRAINAGE AREA : 4.91 AC.
 PROP. DRAINAGE AREA : 4.83 AC.
 STORAGE REQUIRED : 17,748 CF.
 STORAGE PROVIDED : 21,680 CF.
 WEIR CREST ELEV. : 427.0
 BOTTOM ELEV. : 424.0
 DEPTH : 3'
 SIDE SLOPES : 2:1
 TOP EMBANKMENT : 428.0
 WEIR LENGTH : 20'
 CLEANOUT ELEVATION : 425.50
 BOTTOM DIMENSION : 90' x 52'

RIP RAP OUTLET SEDIMENT TRAP #2 (ST-1V)
 EX. DRAINAGE AREA : 6.19 AC.
 PROP. DRAINAGE AREA : 6.01 AC.
 STORAGE REQUIRED : 21,636 CF.
 STORAGE PROVIDED : 22,103 CF.
 WEIR CREST ELEV. : 402.0
 BOTTOM ELEV. : 398.0
 DEPTH : 4'
 SIDE SLOPES : 2:1
 TOP EMBANKMENT : 403.0
 WEIR LENGTH : 24'
 CLEANOUT ELEVATION : 400.0
 BOTTOM DIMENSION : 96' x 12'

ENGINEER'S CERTIFICATE
 I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.
 Signature Of Engineer: *Amesh Patel* Date: 11-14-97

DEVELOPER'S CERTIFICATE
 I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.
 Signature Of Developer: *John Swade* Date: 11-14-97

Reviewed For Howard County Soil Conservation District And Meets Technical Requirement:
Cheryl Simmons 5/18/98 Date
 U.S.D.A. - Natural Resources Conservation Service

Approved This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District:
John Robertson 5/18/98 Date
 District Howard Soil Conservation Dist.

Approved: Department Of Planning And Zoning
Cindy Hammett 6/2/98 Date
 Chief, Division Of Land Development

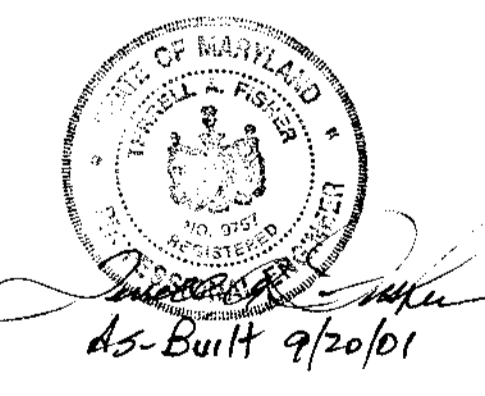
John Pannunzio 6/2/98 Date
 Chief, Development Engineering Division

Approved: Howard County Department Of Public Works
Robert M. Dando 5-29-98 Date
 Chief, Bureau Of Highways

| LEGEND | |
|--------------|-------------------------------|
| Symbol | Description |
| --- (dashed) | Existing Contour 2' Interval |
| --- (dashed) | Existing Contour 10' Interval |
| --- (dashed) | Proposed Contour 2' Interval |
| --- (dashed) | Proposed Contour 10' Interval |
| + 624 | Spot Elevation |
| -S-S- | Silt Fence |
| --- | Earth Dike |
| -X-X- | Tree Protection |
| --- | Existing Tree Line |
| --- | Limit Of Disturbance |
| (*) | Existing Street Tree |
| -SS-SS- | Super Silt Fence |
| --- | Inlet Protection |
| S.C.E. | Stone Construction Entrance |

WATER QUALITY FACILITY #10
 (SHALLOW MARSH)
 SEE SHEET B FOR PLANNING PERTAINING TO THE SHALLOW MARSH
 NOTE: W.Q. FACILITY #10 TO BE PRIVATELY OWNED & MAINTAINED BY THE H.O.A.

STONE OUTLET SEDIMENT TRAP #1
 B.B. RIP RAP AND FILTER FABRIC 450' x 9', 0max = 9", THICKNESS 12"



WATER QUALITY, STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS #6-DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 6 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
 GILLOTT CITY, MARYLAND 22042
 410.461.3200

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MRS. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MRS. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

| STREET TREE SCHEDULE | | | |
|----------------------|--|---------------------|-------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | ACER RUBUM 'OCTOBER GLORY' RED MAPLE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

- 20 STREET TREES
- 25 STREET TREES (THIS SHEET)

NOTE: SEE SHEET 13 FOR SWIM AREA LANDSCAPING (SCHEDULE D).

WATER QUALITY FACILITY #9 (SHALLOW MARSH) SEE SHEETS 7 & 8 FOR PLANTING PERTAINING TO THE SHALLOW MARSH.

EX. 100 YEAR FLOOD PLAIN, DRAINAGE AND UTILITY EASEMENT PLAT NO. 12234
 6" x 6" RIP-RAP APPROX 120' x 120' FILTER FABRIC 240" x 24" SPACING 12" THICKNESS 12"

DANIELS MILL OVERLOOK SECTION 2, AREA 4 PLAT # 121815 - 12281

OLD FREDERICK ROAD
 (MAJOR COLLECTOR)

Approved: Department of Planning And Zoning
Cindy Hamilton 6/19/98
 Chief, Division of Land Development
David Dammann 6/2/98
 Chief, Development Engineering Division
 Approved: Howard County Department of Public Works
Andrew M. Daneker 5-29-98
 Chief, Bureau of Highways

| DRAINAGE AREA DATA | | | | |
|--------------------|---------------|------------|------|--------------|
| STRUCTURE NO. | DRAINAGE AREA | AREA AC. ± | "C" | ZONED ± IMP. |
| I-1 | GGG | 0.18 | 0.61 | R-ED 50% |
| I-2 | HHH | 0.34 | 0.56 | R-ED 50% |
| I-3 | EEE | 0.22 | 0.33 | R-ED 30% |
| I-4 | CCC | 0.41 | 0.33 | R-ED 30% |
| I-5 | DDD | 0.47 | 0.33 | R-ED 30% |
| I-6 | BBB | 0.34 | 0.56 | R-ED 50% |
| I-7 | MMM | 0.86 | 0.56 | R-ED 46% |
| I-8 | LLL | 1.50 | 0.55 | R-ED 47% |
| I-9 | III | 0.70 | 0.40 | R-ED 23% |
| I-10 | JJJ | 2.10 | 0.31 | R-ED 9.5% |
| I-11 | KKK | 2.40 | 0.28 | R-ED 4.2% |
| I-12 | PPP | 1.10 | 0.55 | R-ED 45% |
| I-13 | OOO | 1.60 | 0.31 | R-ED 9.2% |
| I-14 | NNN | 2.50 | 0.28 | R-ED 4% |
| EX. I-15 | FFF | 0.20 | 0.45 | R-ED 35% |
| Σ 4 | QQQ | 2.00 | 0.50 | R-ED 30% |

DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 46 - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 7 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PSE
 ELLIOTT CITY, MARYLAND 20612
 410.461.3292

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093



PLAN
 SCALE: 1" = 50'

SCHEDULE A - PERIMETER LANDSCAPE EDGE

| PERIMETER | 1 |
|--|----------------------------------|
| CATEGORY | Adjacent to Perimeter Properties |
| LANDSCAPE TYPE | A |
| LINEAR FEET OF PERIMETER | 1485' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | YES (570') |
| CREDIT FOR WALL, FENCE OR BERN (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED) | - |
| NUMBER OF PLANTS REQUIRED | - |
| SHADE TREES | 15 |
| EVERGREEN TREES | - |
| SHRUBS | - |
| NUMBER OF PLANTS PROVIDED | - |
| SHADE TREES | 15 |
| EVERGREEN TREES | - |
| OTHER TREES (21 SUBSTITUTION) | - |
| SHRUBS (01 SUBSTITUTION) | - |
| (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED) | - |

| LANDSCAPING PLANT LIST | | | |
|------------------------|-----|---|------------------------------------|
| QTY. | KEY | NAME | SIZE |
| 15 | | ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE) | 2 - 2 1/2" CALIPER FULL CROWN, B&B |

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1624 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$1,500.00.

STREET TREE SCHEDULE

| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
|--------|--|---------------------|-------------------------|
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

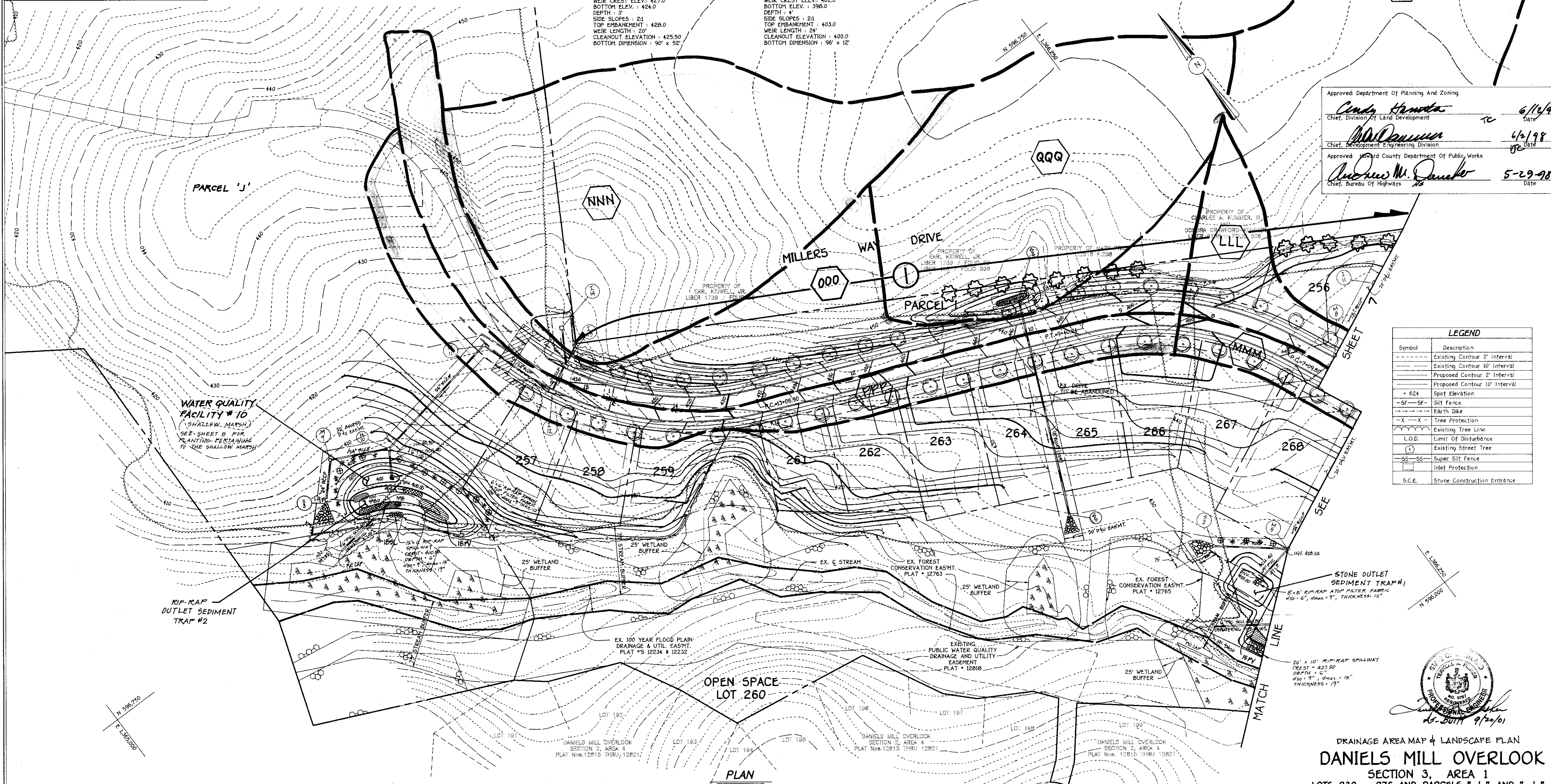
- 46 STREET TREES (THIS SHEET)

STONE OUTLET SEDIMENT TRAP #1

EX. DRAINAGE AREA : 4.91 AC.
PROP. DRAINAGE AREA : 4.83 AC.
STORAGE REQUIRED : 17,748 C.F.
STORAGE PROVIDED : 21,680 C.F.
WEIR CREST ELEV. : 427.0
BOTTOM ELEV. : 424.0
DEPTH : 3'
SIDE SLOPES : 2:1
TOP EMBANKMENT : 428.0
WEIR LENGTH : 20'
CLEANOUT ELEVATION : 425.50
BOTTOM DIMENSION : 90' x 52'

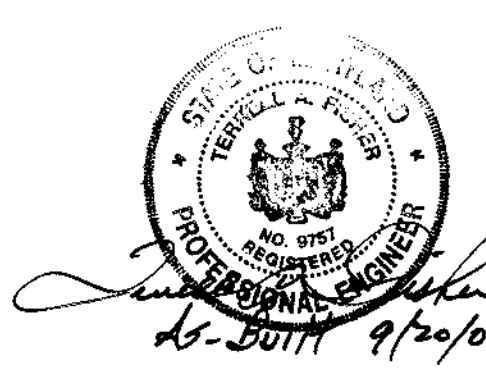
RIP RAP OUTLET SEDIMENT TRAP #2 (ST-IV)

EX. DRAINAGE AREA : 6.19 AC.
PROP. DRAINAGE AREA : 6.01 AC.
STORAGE REQUIRED : 21,636 C.F.
STORAGE PROVIDED : 22,103 C.F.
WEIR CREST ELEV. : 402.0
BOTTOM ELEV. : 398.0
DEPTH : 4'
SIDE SLOPES : 2:1
TOP EMBANKMENT : 403.0
WEIR LENGTH : 24'
CLEANOUT ELEVATION : 400.0
BOTTOM DIMENSION : 96' x 12'



Approved: Department of Planning And Zoning
Cindy Hanada 6/12/98
 Chief, Division of Land Development
W. J. ... 6/2/98
 Chief, Development Engineering Division
 Approved: Howard County Department of Public Works
Andrew M. Danako 5-29-98
 Chief, Bureau of Highways

| LEGEND | |
|--------|-------------------------------|
| Symbol | Description |
| | Existing Contour 2' Interval |
| | Existing Contour 10' Interval |
| | Proposed Contour 2' Interval |
| | Proposed Contour 10' Interval |
| | Spot Elevation |
| | Silt Fence |
| | Earth Dike |
| | Tree Protection |
| | Existing Tree Line |
| | Limit of Disturbance |
| | Existing Street Tree |
| | Super Silt Fence |
| | Inlet Protection |
| | Stone Construction Entrance |

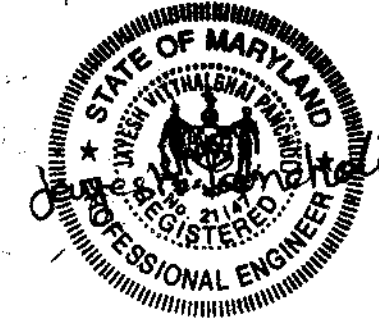


DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 4 & 6 - DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 8 OF 13

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 18275 BALTIMORE NATIONAL FREE
 ELLICOTT CITY, MARYLAND 21117
 (410) 461-2805

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

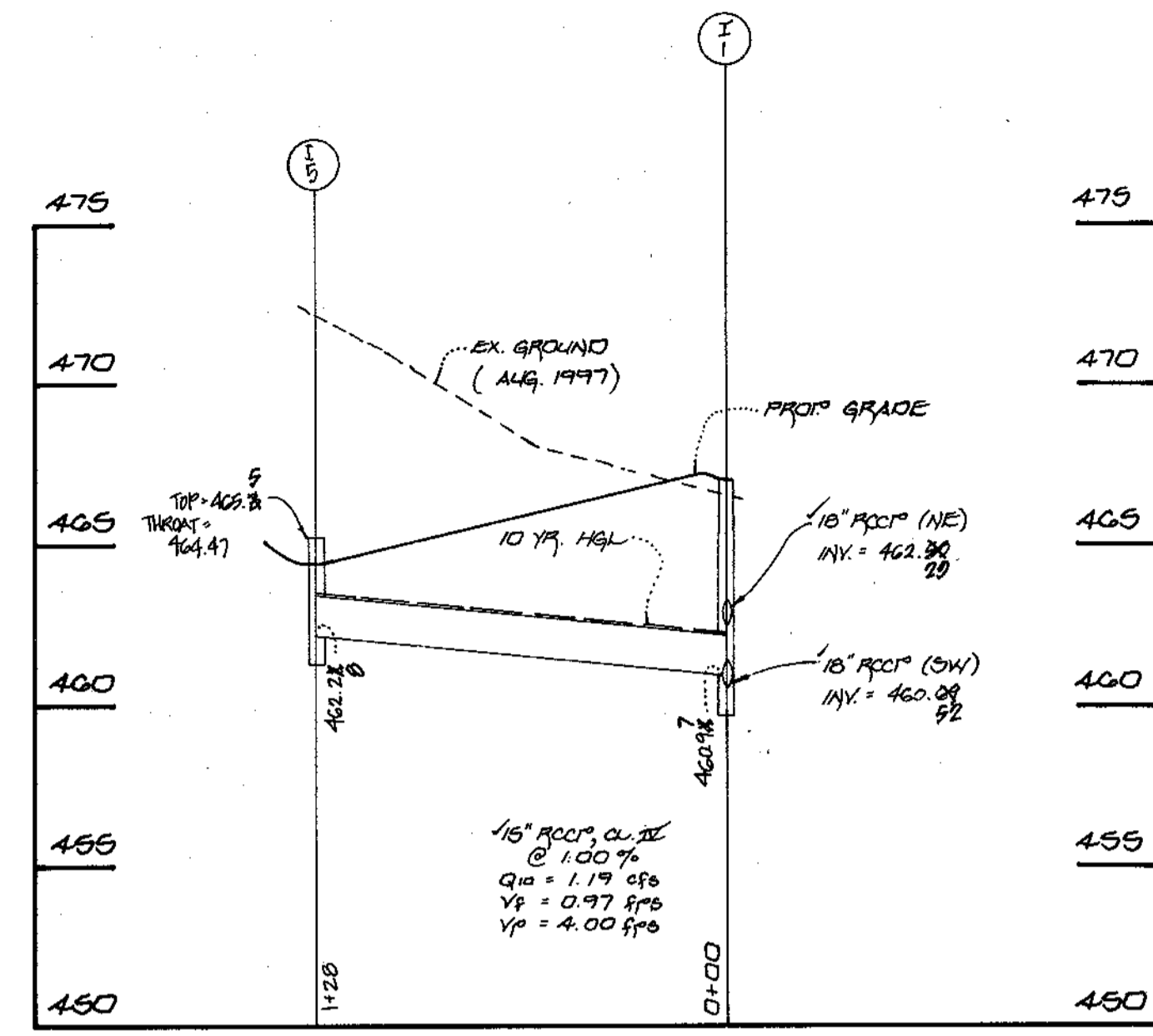
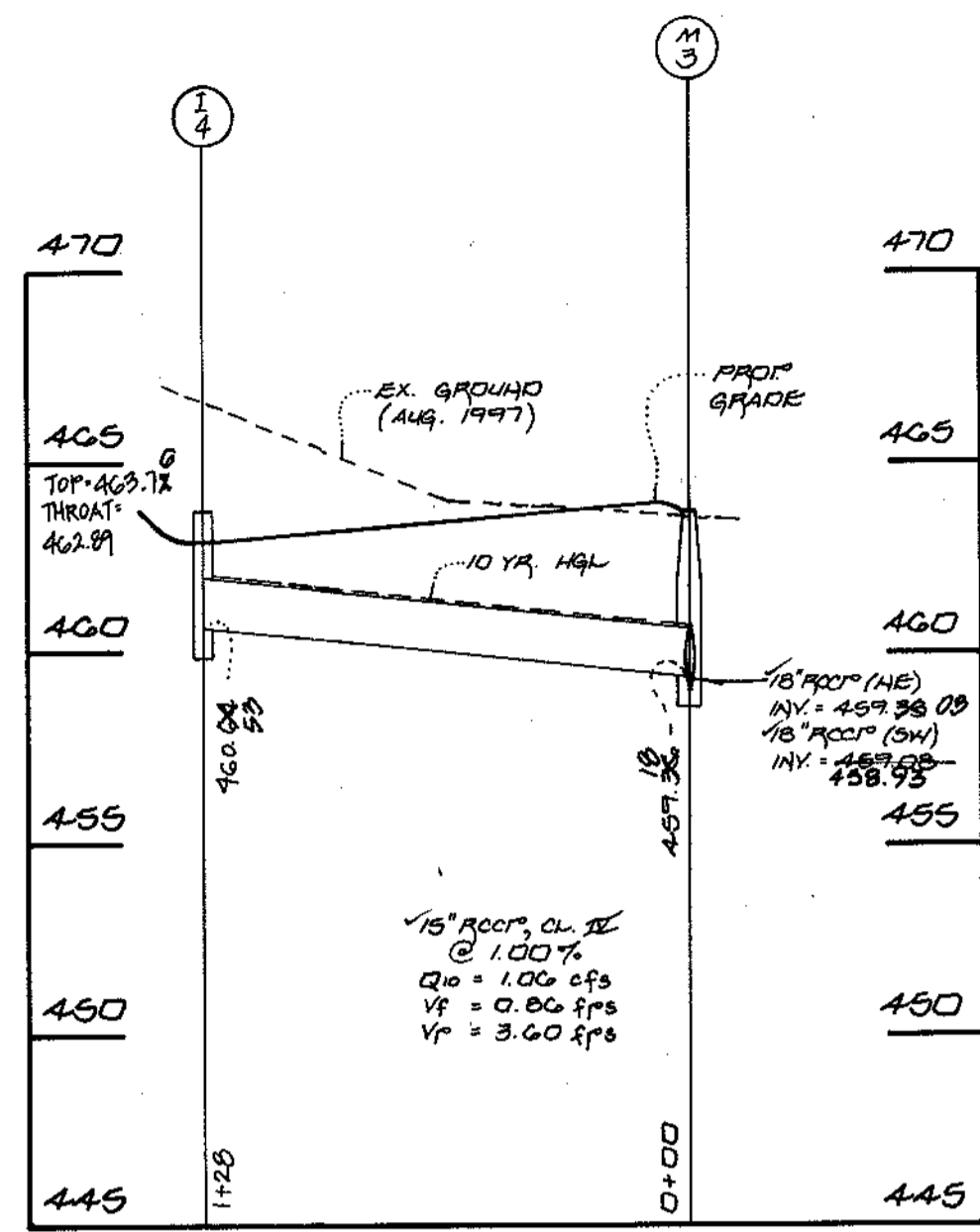
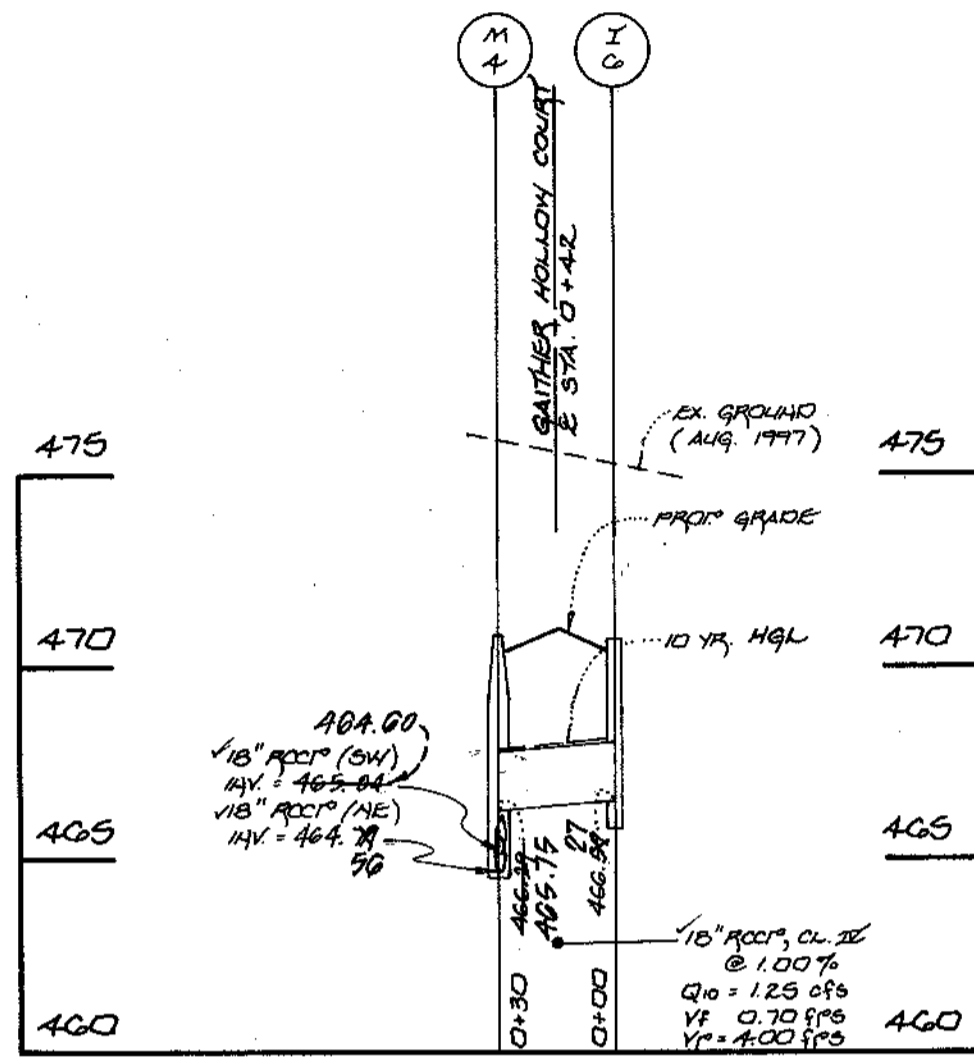
OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093



Andy Hamilton 6/12/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

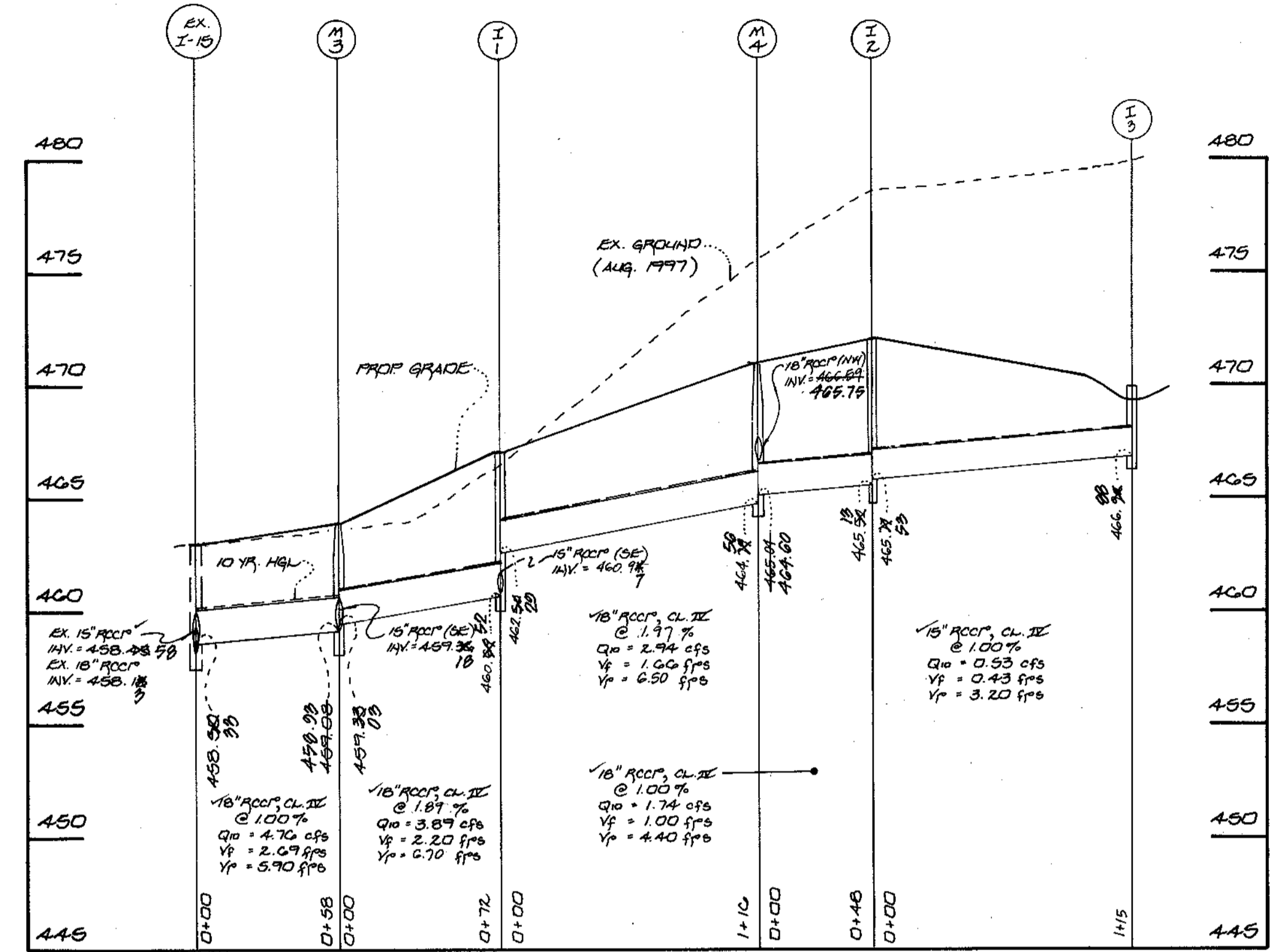
W.D. Dammann 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert M. O'Quinn 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE



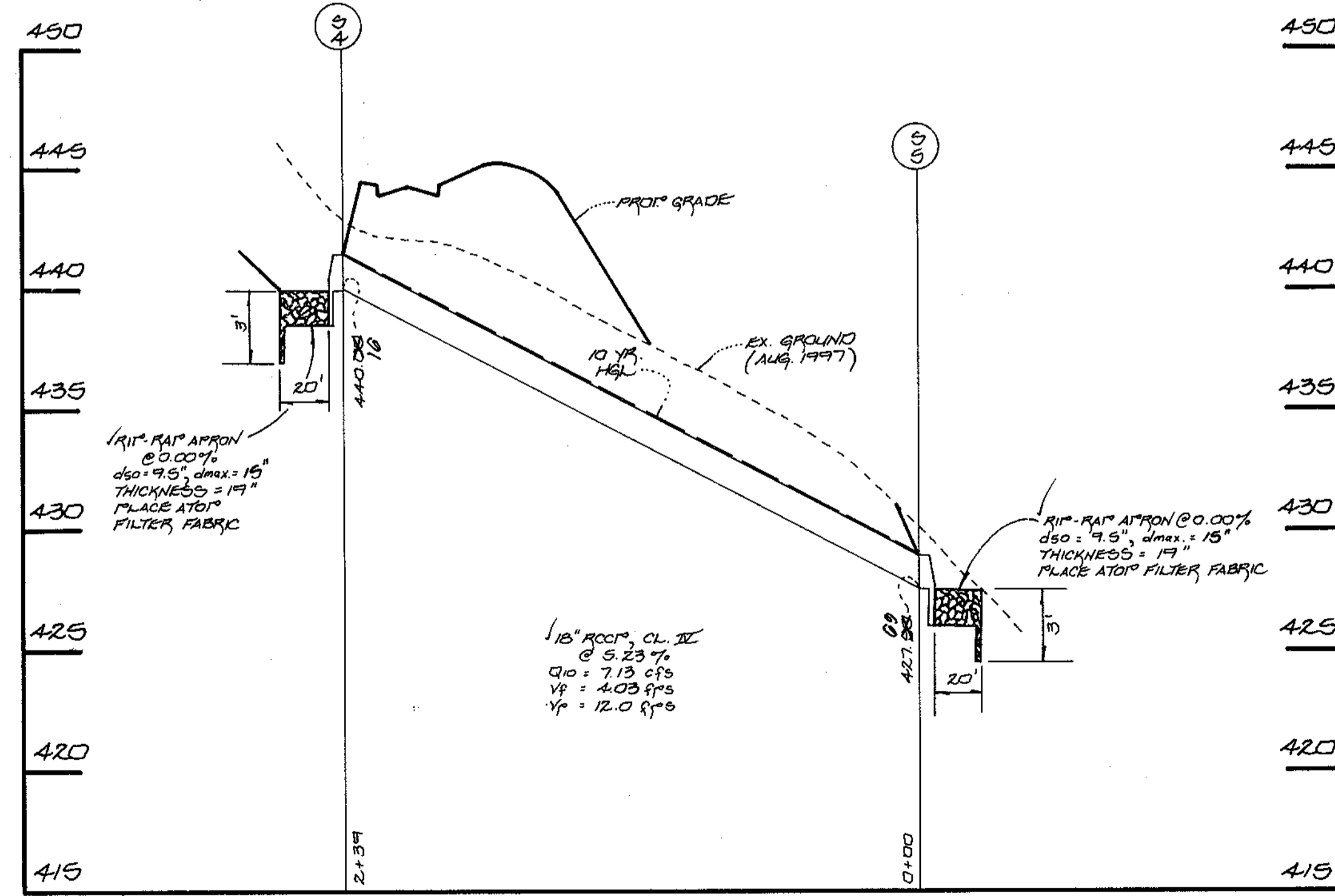
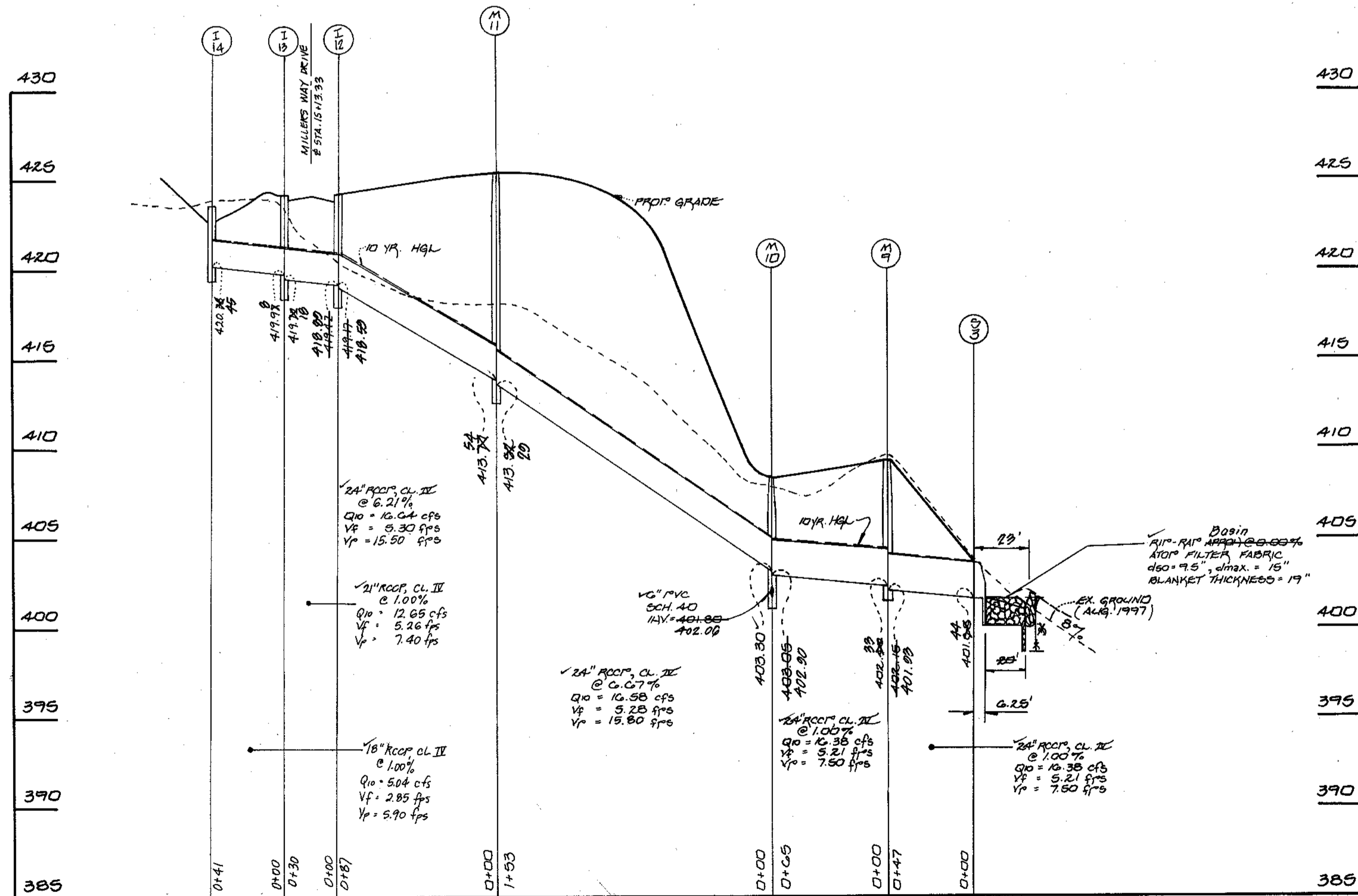
PROFILES

SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



PROFILE

SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1

LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCEL E8G-DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)

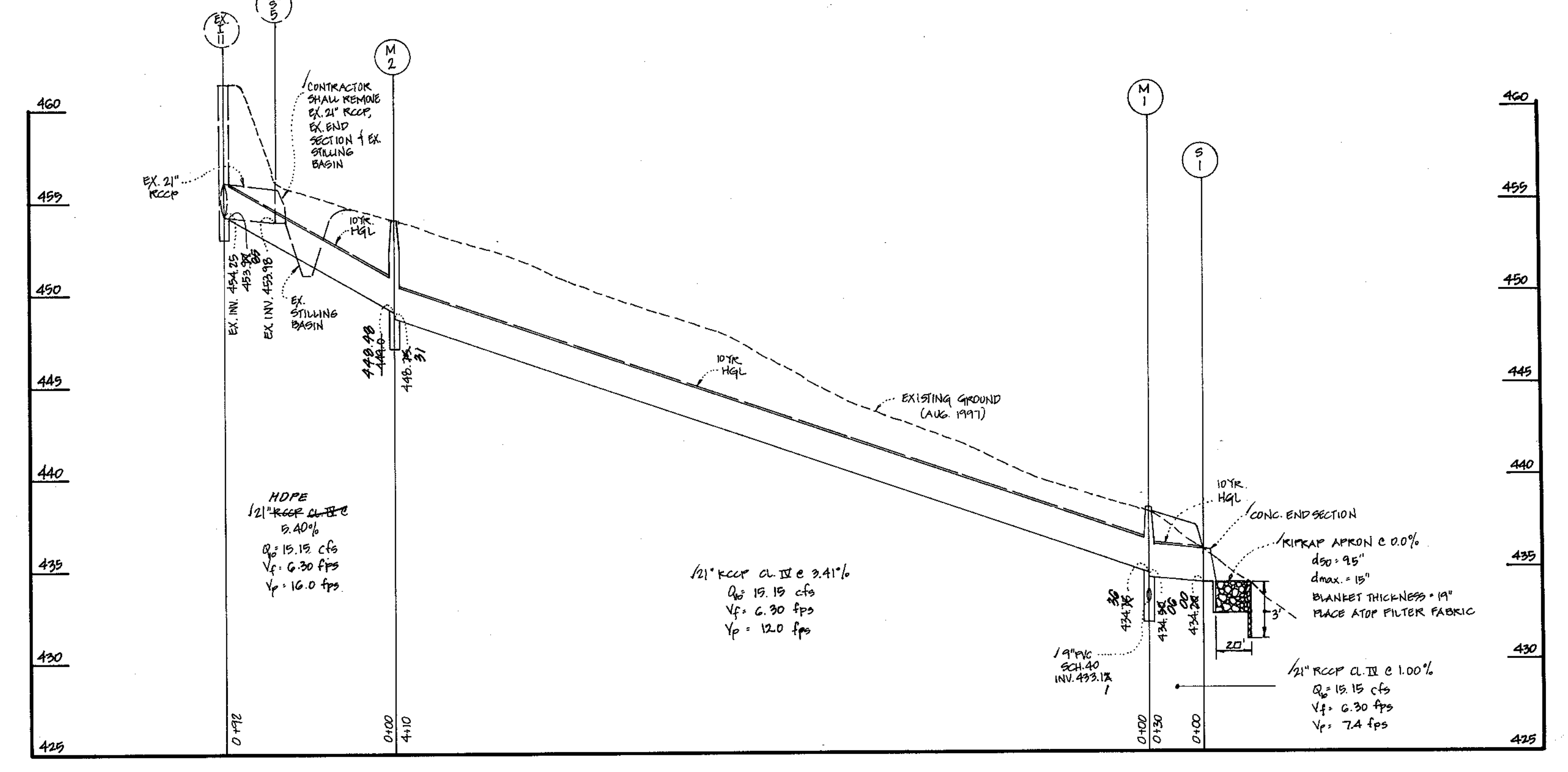
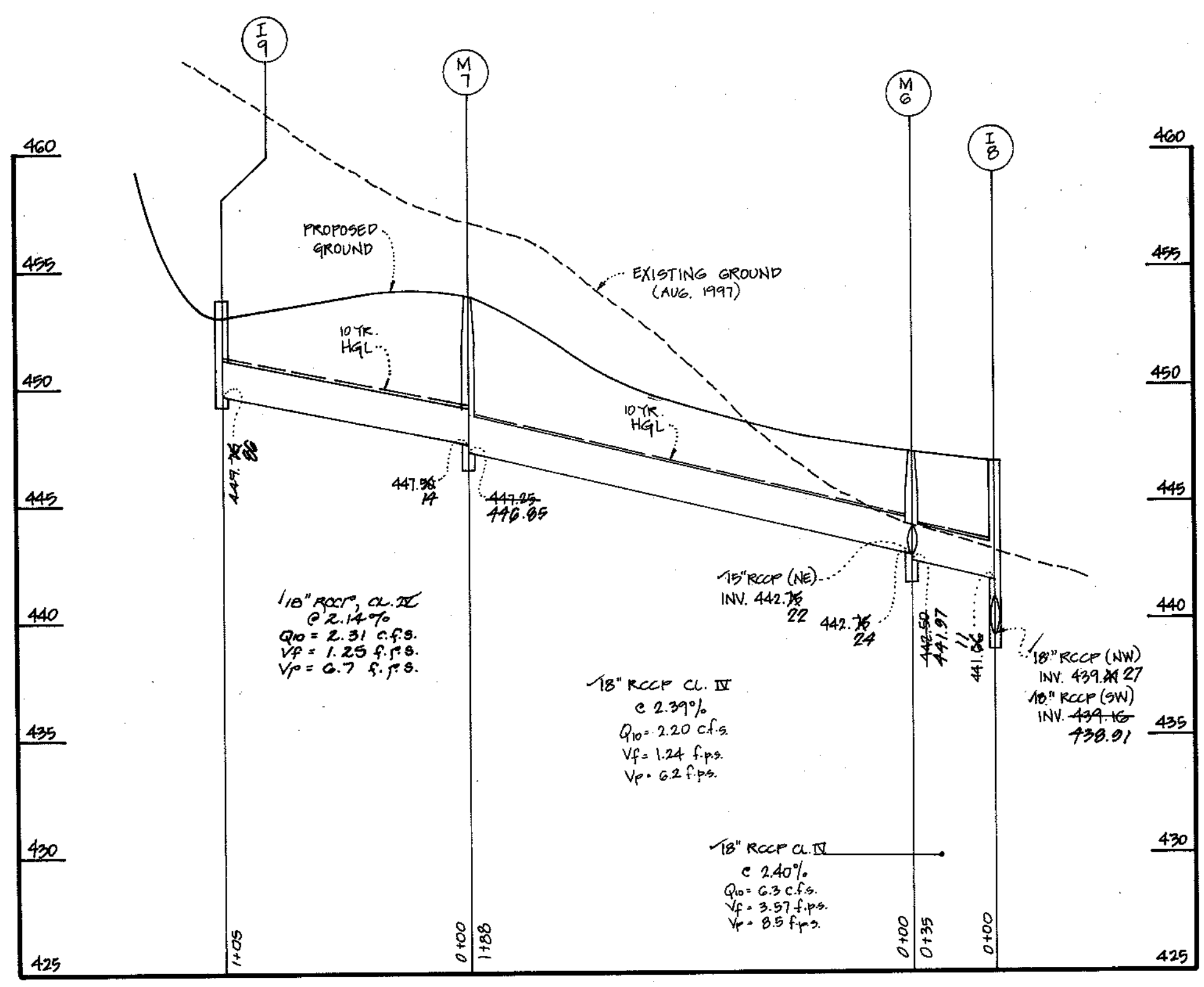
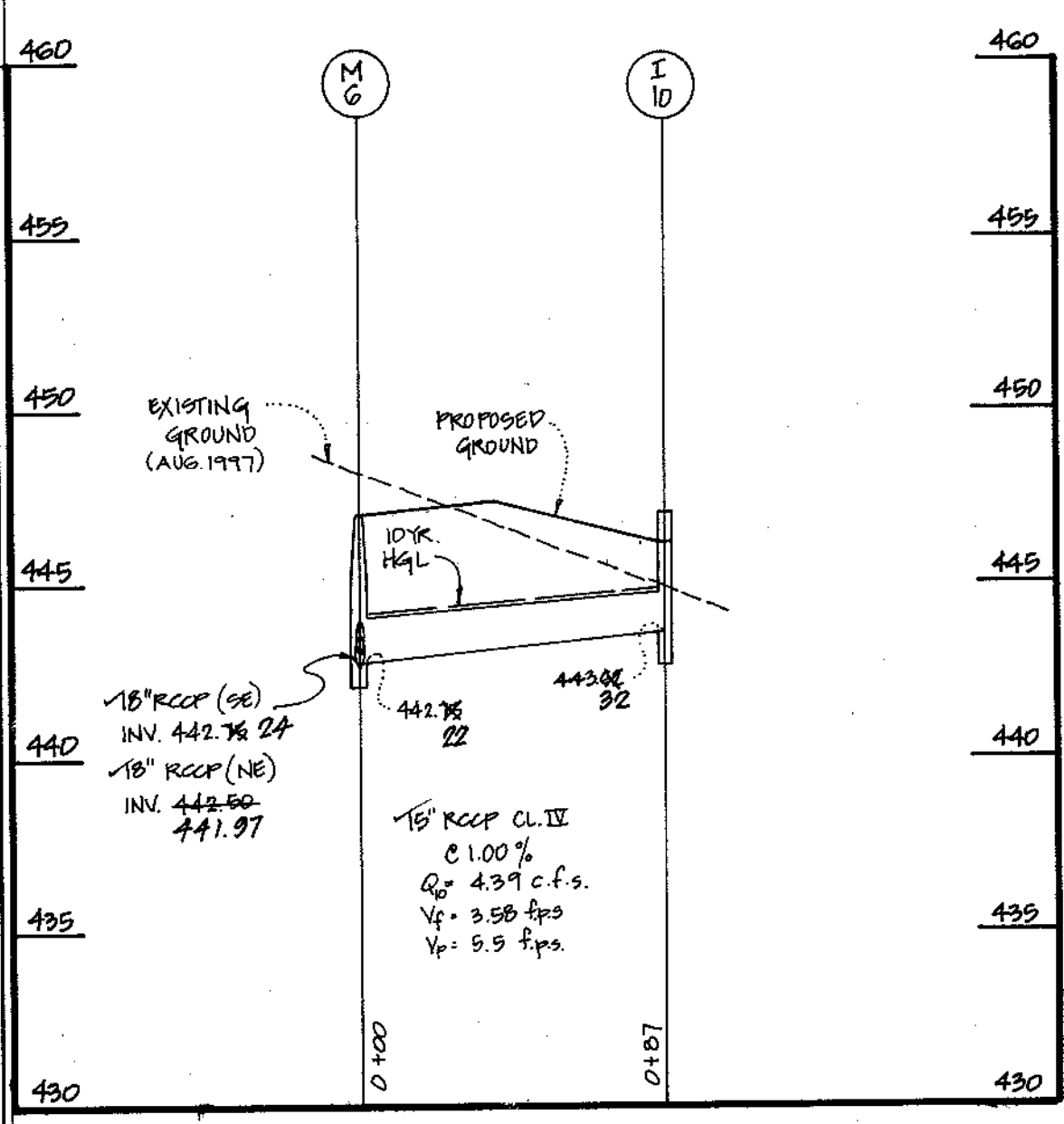
ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER, 1997
 SHEET 9 OF 12

As-Built 9/20/01

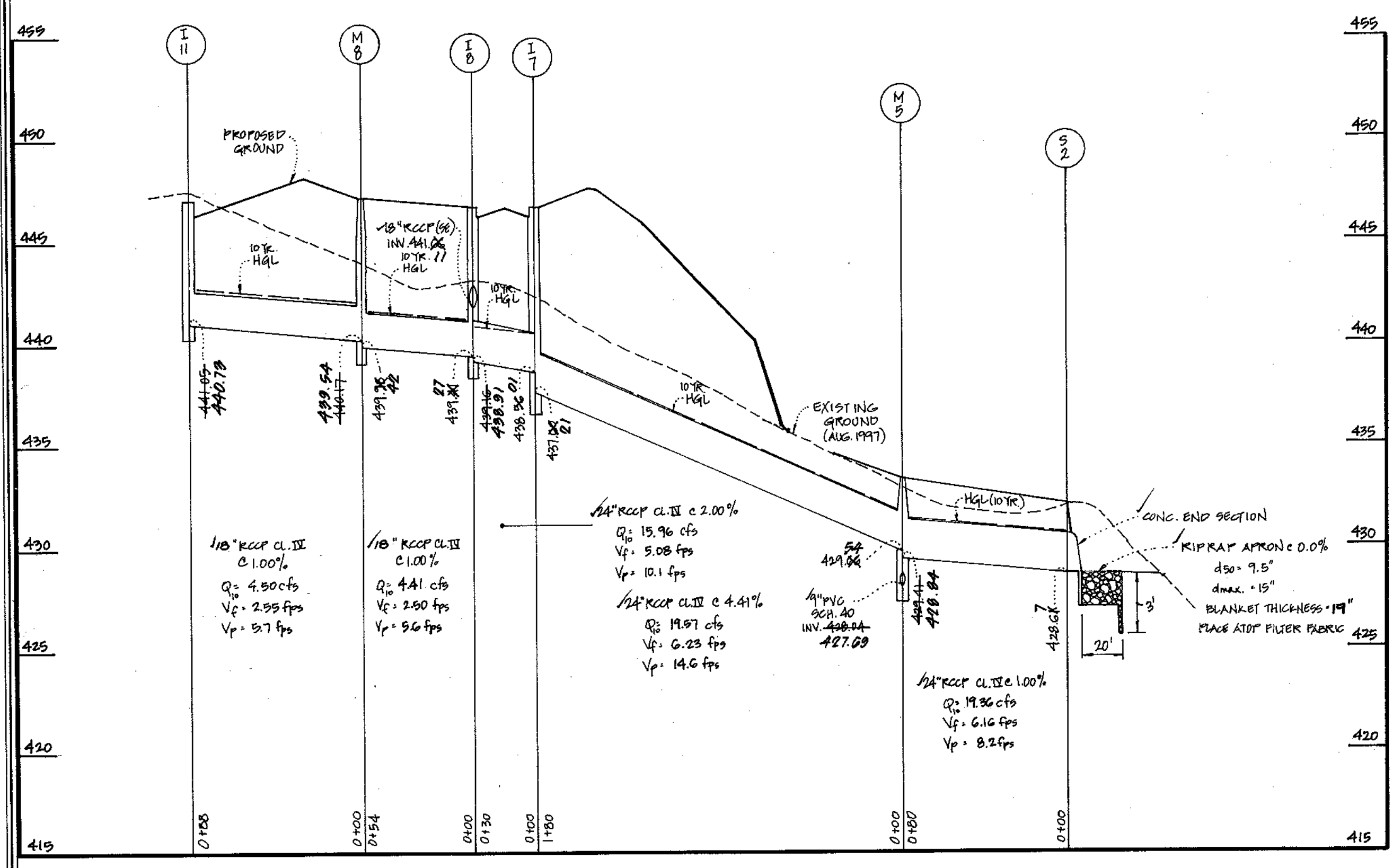
APPROVED: DEPARTMENT OF PUBLIC WORKS
James M. Douglas 5-29-99
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Andy Starnita 6/16/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

W. Dammann 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



PROFILES
 SCALE: 1" = 50' HORIZ.
 1" = 5' VERT.



PROFILE
 SCALE: 1" = 50' HORIZ.
 1" = 5' VERT.



STORM DRAIN PROFILES
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 68-DANIELS MILL OVERLOOK,
 SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)

ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997
 SHEET 10 OF 13

James R. Jahn
 As-Built 9/20/01

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL FREE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2000

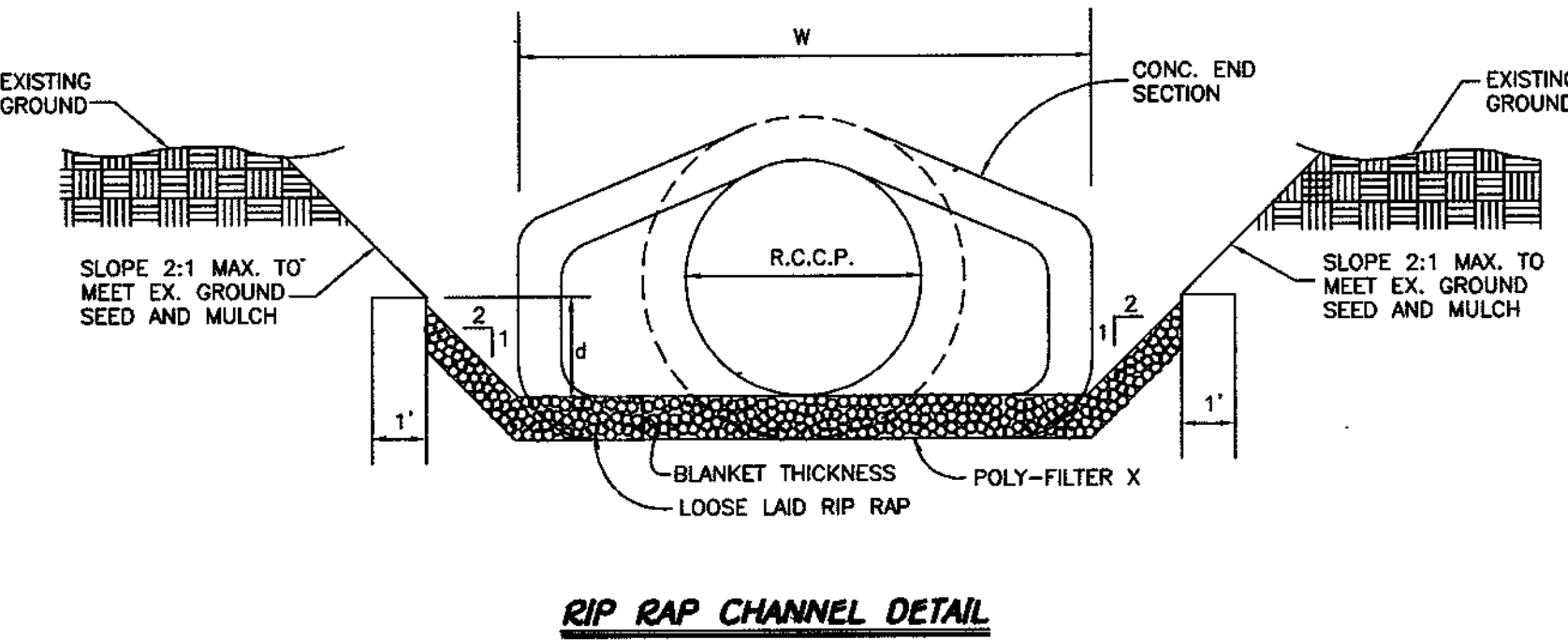
DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEARDE
 GALLERIA TOWERS
 SUITE 705
 147 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, LLC.
 ATT: MR. JOHN W. MEARDE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 147 YORK ROAD
 LUTHERVILLE, MD. 21093

STRUCTURE SCHEDULE

| STRUCTURE NO. | TOP ELEVATION | INV. IN | INV. OUT | ROAD NAME | ROAD STA. | OFFSET | TYPE | REMARKS |
|---------------|---------------|-----------|-----------|----------------------|---------------------|-----------|-------------------|-----------|
| I-1 | 467.30 21 | 462.90 20 | 460.94 52 | STONEHOUSE DRIVE | C.L. STA. 0+78(45) | 13' LT. | A-5 INLET | S.D. 4.40 |
| I-2 | 472.06 20 | 465.74 50 | 465.96 13 | GAITHER HOLLOW COURT | C.L. STA. 0+98(00) | 13' RT. | A-5 INLET | S.D. 4.40 |
| I-3 | 470.00 | 469.17 | 466.96 08 | | | | 'D' INLET | S.D. 4.39 |
| I-4 | 463.72 0 | 462.09 | 460.04 53 | | | | 'D' INLET | S.D. 4.39 |
| I-5 | 465.30 50 | 464.47 | 462.22 0 | | | | 'D' INLET | S.D. 4.39 |
| I-6 | 470.74 10 | 467.01 | 466.94 27 | GAITHER HOLLOW COURT | C.L. STA. 0+48 (00) | 13' LT. | A-5 INLET | S.D. 4.40 |
| I-7 | 446.75 10 | 430.96 01 | 437.00 21 | MILLERS WAY DRIVE | C.L. STA. 6+08(30) | 13' RT. | A-10 INLET | S.D. 4.41 |
| I-8 | 446.75 10 | 430.96 01 | 437.00 21 | MILLERS WAY DRIVE | C.L. STA. 6+08(30) | 13' RT. | A-10 INLET | S.D. 4.41 |
| I-9 | 453.04 70 | 443.00 | 449.75 00 | | | | 'D' INLET | S.D. 4.39 |
| I-10 | 440.00 | 447.03 | 446.20 | | | | 'D' INLET | S.D. 4.39 |
| I-11 | 440.00 | 447.03 | 446.20 | | | | 'D' INLET | S.D. 4.39 |
| I-12 | 424.36 50 | 419.97 00 | 419.97 00 | MILLERS WAY DRIVE | C.L. STA. 15+32(04) | 13' LT. | A-10 INLET | S.D. 4.41 |
| I-13 | 424.36 50 | 419.97 00 | 419.97 00 | MILLERS WAY DRIVE | C.L. STA. 15+32(04) | 13' RT. | A-10 INLET | S.D. 4.41 |
| I-14 | 423.70 70 | 422.00 | 420.38 45 | | | | 'D' INLET | S.D. 4.39 |
| M-1 | 430.26 01 | 434.76 30 | 434.76 30 | | | | STD. MANHOLE | G.5.01 |
| M-2 | 454.8 11 | 449.0 10 | 448.76 31 | | | | STD. MANHOLE | G.5.01 |
| M-3 | 453.60 | 459.36 10 | 459.00 10 | STONEHOUSE DRIVE | C.L. STA. 1+48 (50) | 18' LT. | STD. MANHOLE | G.5.01 |
| M-4 | 470.910 | 465.0 10 | 464.74 50 | GAITHER HOLLOW COURT | C.L. STA. 0+48 (00) | 18' RT. | STD. MANHOLE | G.5.01 |
| M-5 | 433.41 10 | 429.96 60 | 429.96 60 | | | | STD. MANHOLE | G.5.01 |
| M-6 | 447.00 10 | 442.76 00 | 442.50 10 | MILLERS WAY DRIVE | C.L. STA. 5+94 70 | 18' RT. | STD. MANHOLE | G.5.01 |
| M-7 | 453.04 70 | 447.50 10 | 447.50 10 | MILLERS WAY DRIVE | C.L. STA. 3+82 30 | 18' RT. | STD. MANHOLE | G.5.01 |
| M-8 | 447.26 10 | 446.75 10 | 439.96 42 | MILLERS WAY DRIVE | C.L. STA. 6+59 40 | 17.5' RT. | STD. MANHOLE | G.5.01 |
| M-9 | 409.58 3 | 402.90 30 | 402.90 30 | | | | STD. MANHOLE | G.5.01 |
| M-10 | 408.30 20 | 403.30 | 403.30 | | | | STD. MANHOLE | G.5.01 |
| M-11 | 425.30 20 | 413.78 50 | 413.78 50 | MILLERS WAY DRIVE | C.L. STA. 16+18 0 | 16' LT. | STD. MANHOLE | G.5.01 |
| S-1 | 436.20 00 | | 434.20 00 | | | | CONC. END SECTION | S.D. 5.52 |
| S-2 | 430.86 07 | | 428.68 7 | | | | CONC. END SECTION | S.D. 5.52 |
| S-3 | 403.96 44 | | 401.96 44 | | | | CONC. END SECTION | S.D. 5.52 |
| S-4 | 441.8 00 | | 440.8 10 | | | | CONC. END SECTION | S.D. 5.52 |
| S-5 | 429.8 10 | | 427.5 00 | | | | CONC. END SECTION | S.D. 5.52 |

NOTE: FOR ALL 'D' INLETS LOCATED IN SUMP AREAS, ALL 4 SIDES ARE TO REMAIN OPEN.
* DENOTES THROAT ELEVATIONS



RIP-RAP CHANNEL DESIGN DATA

| STRUCTURE | AREA | WETTED PERIMETER | R | R 2/3 | S | S 1/2 | W | d | N | V | Q | RIP-RAP SIZE D ₅₀ D _{MAX} | BLANKET THICKNESS | Q10 | DI. |
|-----------|---------|------------------|------|-------|-------|--------|------|-------|-------|------|-----------|---|-------------------|-----------|-----|
| S-1 | 6.50 SF | 8.97 | 0.72 | 0.803 | 0.005 | 0.0707 | 4.5' | 1.00' | 0.035 | 2.42 | 15.73 CFS | 9.5" 15" | 19" | 15.15 CFS | 21" |
| S-2 | 8.00 SF | 10.47 | 0.76 | 0.833 | 0.005 | 0.0707 | 6.0' | 1.00' | 0.035 | 2.51 | 20.08 FPS | 9.5" 15" | 19" | 19.36 FPS | 24" |
| S-3 | 7.02 SF | 10.02 | 0.70 | 0.760 | 0.005 | 0.0707 | 6.0' | 0.90' | 0.035 | 2.37 | 16.04 FPS | 9.5" 15" | 19" | 16.30 FPS | 24" |

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

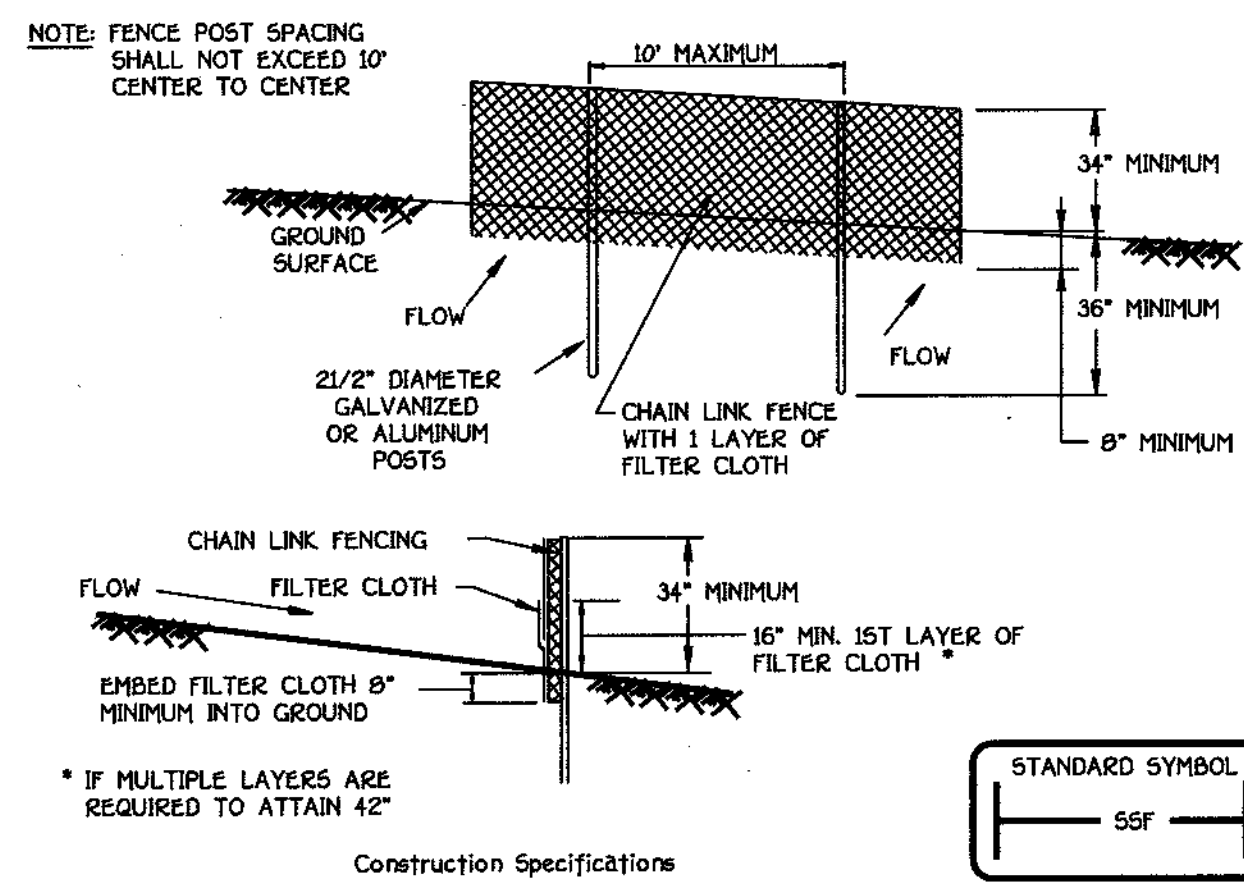
- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE, OFFICE 302 - 3027 BALTIMORE NATIONAL PKWY
ELICOTT CITY, MARYLAND 21042
(410) 486-2955

DEVELOPER
THE RYLAND GROUP, INC.
ATT: MR. JOHN W. MEADE
GALLERIA TOWERS
SUITE 705
147 YORK ROAD
LUTHERVILLE, MD. 21093

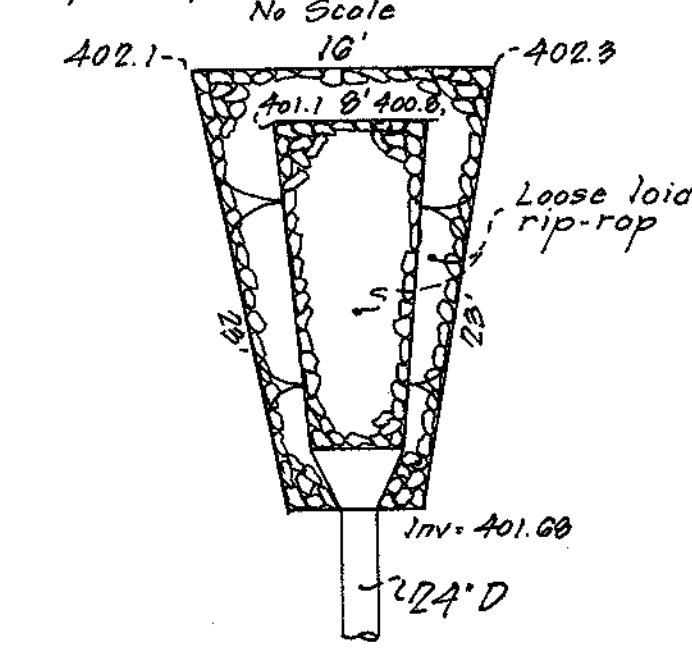
OWNER
RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
ATT: MR. JOHN W. MEADE
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LUTHERVILLE, MD. 21093

DETAIL 33 - SUPER SILT FENCE

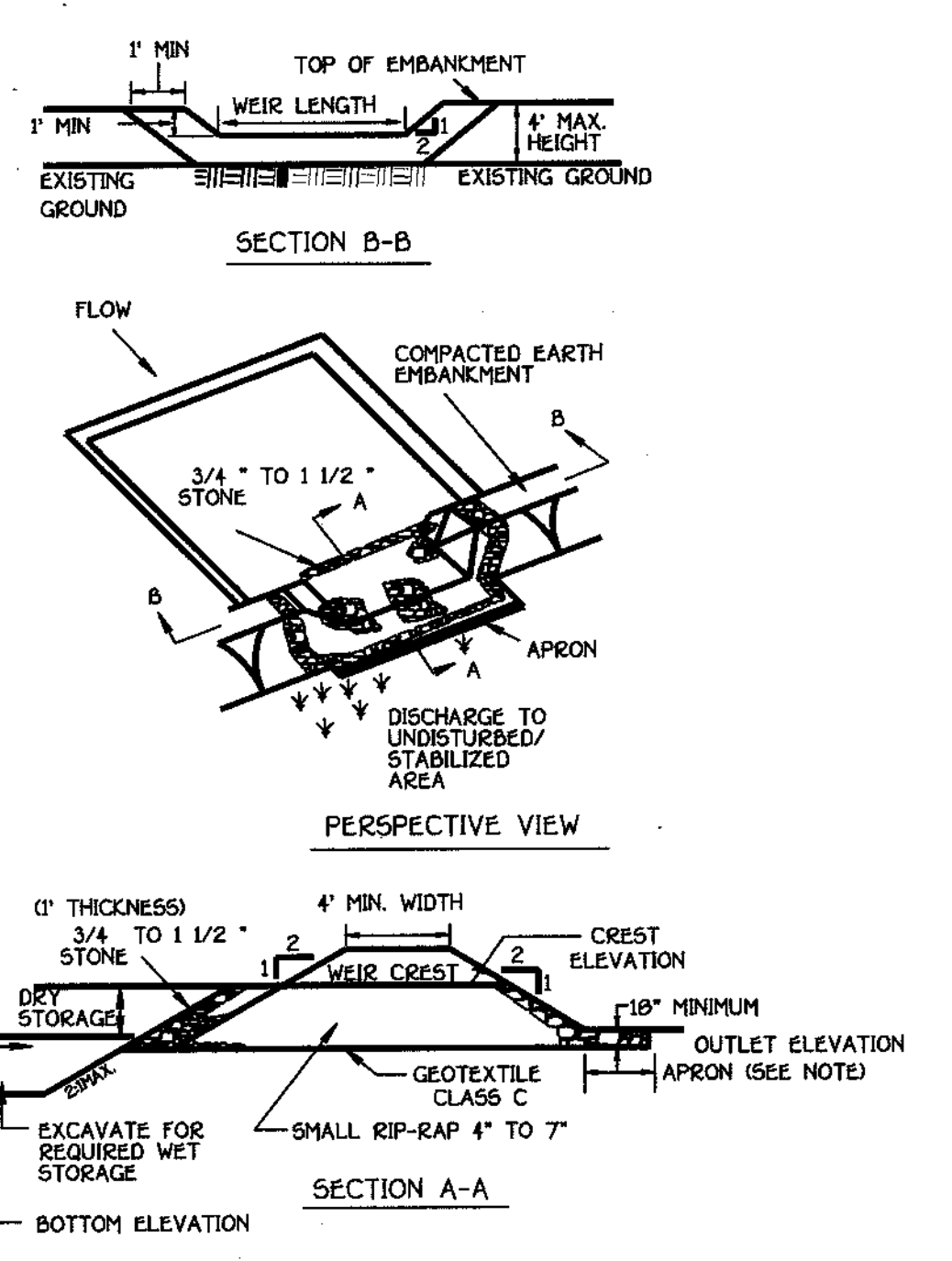


- Construction Specifications**
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
 - Chain link fence shall be fastened securely 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.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt buildup removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height.
 - 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/(1 minute) (max) Test: MSMT 322
Filtering Efficiency 75% (min) Test: MSMT 322

Rip Rap Basin Outfall S-3

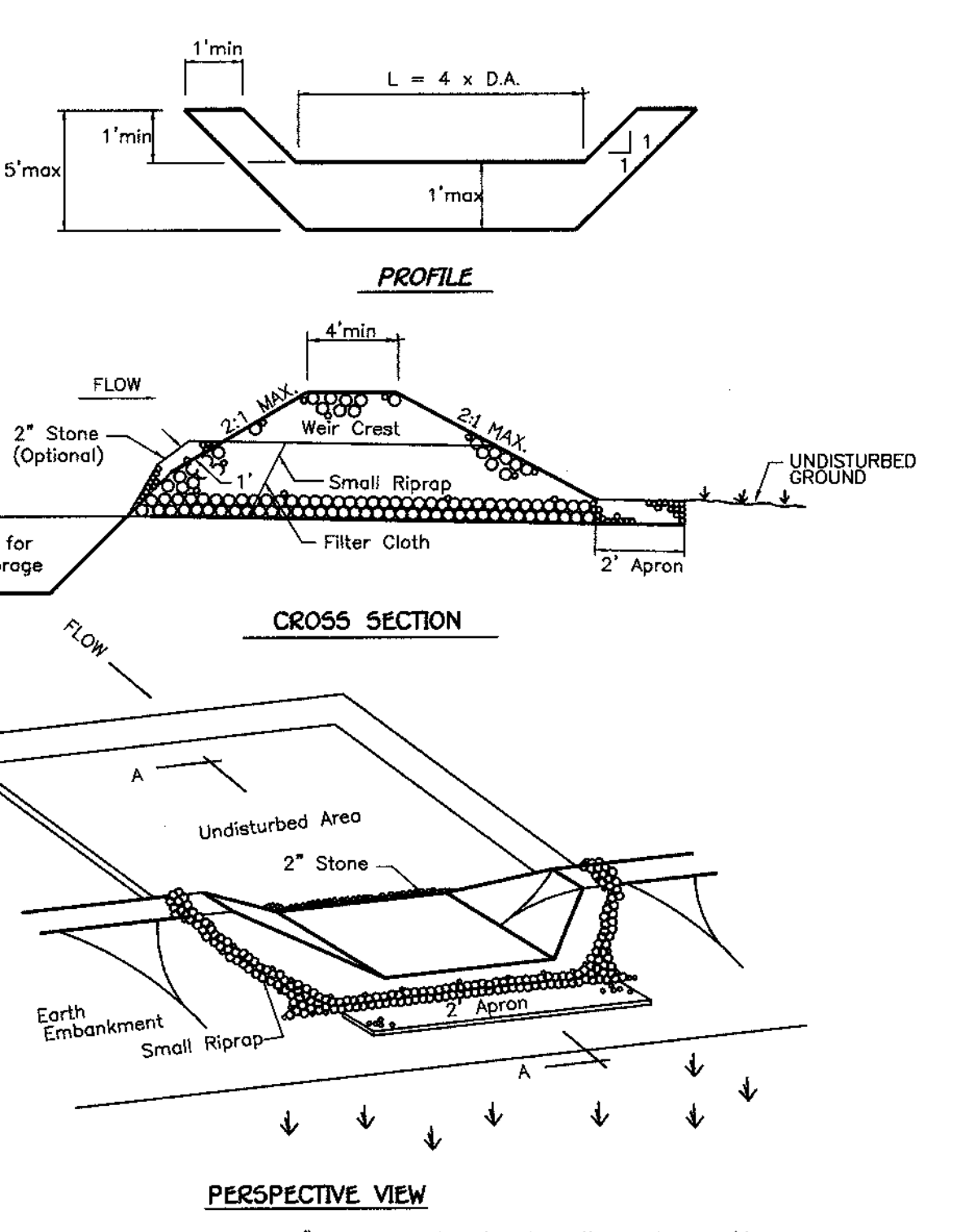


RIP-RAP OUTLET SEDIMENT TRAP - ST IV



NOTE: 5" MIN LENGTH UP TO 5 ACRES, OVER 5 ACRES USE 10" MIN

STONE OUTLET SEDIMENT TRAP ST-VI



- OPTION:** A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- The Area Under Embankment Shall Be Cleared, Grubbed And Stripped Of Any Vegetation And Root Mat. The Pool Area Shall Be Cleared.
 - The Fill Material For The Embankment Shall Be Free Of Roots Or Other Woody Vegetation As Well As Over-Sized Stones, Rocks, Organic Material Or Other Objectionable Material. The Embankment Shall Be Compacted By Traversing.
 - All Cut And Fill Slopes Shall Be 2:1 Or Flatter.
 - The Stone Used In The Outlet Shall Be Small Riprap 4"-8" Along With A 1" Thickness Of 2" Aggregate Placed On The Up-Grade Side On The Small Riprap Or Embedded Filter Cloth In The Riprap.
 - Sediment Shall Be Removed And Trap Restored To Its Original Dimensions When The Sediment Has Accumulated To 1/2 The Design Depth Of The Trap.
 - The Structure Shall Be Inspected After Each Rain And Repaired As Needed.
 - Construction Operations Shall Be Carried Out In Such A Manner That Erosion And Water Pollution Is Minimized.
 - The Structure Shall Be Removed And The Area Stabilized When The Drainage Area Has Been Properly Stabilized.

- Sequence Of Construction**
- Obtain The Required Grading Permit. (1 DAY)
 - Notify Miss Utility 48 Hours Before Beginning Any Work (1-800-257-7777). Notify Howard County Construction/Inspection Division 24 Hours Before Starting Any Work (410) 313-1070.
 - INSTALL FOREST CONSERVATION PROTECTIVE DEVICES. (1 WEEK)
 - INSTALL The Required Sediment And Erosion Control Devices As Indicated On The Plan Sheets. (2 WEEKS)
 - Install Stormdrain From S-4 To S-5. (2 DAYS)
 - INSTALL TEMP GRAVEL DRIVE FOR RELOCATION OF PUMP STATION ACCESS ROAD. (2 WEEKS)
 - Grade Site To Subgrade, Stabilize And Install Storm Drains And Install Inlet Protections (3 weeks).
 - The Contractor Shall Inspect And Provide Necessary Maintenance On All Sediment And Erosion Control Structures Shown Hereon After Each Rainfall And On A Daily Basis.
 - Sediment shall be removed from the Stone Outlet Sediment Traps Once The Cleanup Elevations Have Been Reached. Sediment Must Be Placed Uphill From The Traps. See Plans For Cleanup Elevations (1 Day).
 - Install Road Base Course (5 Days).
 - Install Forebay And Shallow Marsh Facility (1 Week).
 - Remove Sediment From Roadways And Dress Stone Construction Entrance As Required And Stabilize All Disturbed Areas (2 Days).
 - Remove Inlet Protections And Flush Storm Drain System To Remove Any Trapped Sediment.
 - Apply Tack Coat To Sub-Base And Lay Surface Course (4 Days).
 - Remove All Sediment Control Measures Upon Sediment Control Inspectors Approval (2 Days).
 - All Disturbed Areas Due To Removal Of Sediment Control Measures Shall Be Graded And Stabilized By Permanent Seeding (2 Days).

CONSTRUCTION SPECIFICATIONS

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be 4', measured at centerline of embankment.
- All cut and fill slopes shall be 2:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of trap embankment.
- Storage area provided shall be figured by computing the volume measured from top of excavation. (For storage requirements see Table 9).
- Geotextile Class C shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Section of fabric must overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6" into existing ground at entrance of outlet channel.
- 4" - 7" stone shall be used to construct the weir and 4" - 12" or Class 1 rip-rap shall be used to construct the outlet channel.
- Outlet - An outlet shall include a means of conveying the discharge in an erosion free manner to an existing stable channel. Protection against scour at the discharge point shall be provided as necessary.
- Outlet channel must have positive drainage from the trap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 of the wet storage depth of the trap (500 cfs/ft). Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected periodically after each rain and repaired as needed.
- Construction of traps shall be carried out in such a manner that sediment pollution is abated. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentrated inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.
- The structure shall be dewatered by approved methods, removed and the area stabilized when the drainage area has been properly stabilized.

ENGINEER'S CERTIFICATE
I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.
Signature Of Engineer: *John R. Robinson* Date: 11-14-97

DEVELOPER'S CERTIFICATE
I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.
Signature Of Developer: *John W. Meade* Date: 11-14-97

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements:
Cheryl Simmons Date: 5/19/98
C.E.D.A. - Natural Resources Conservation Service

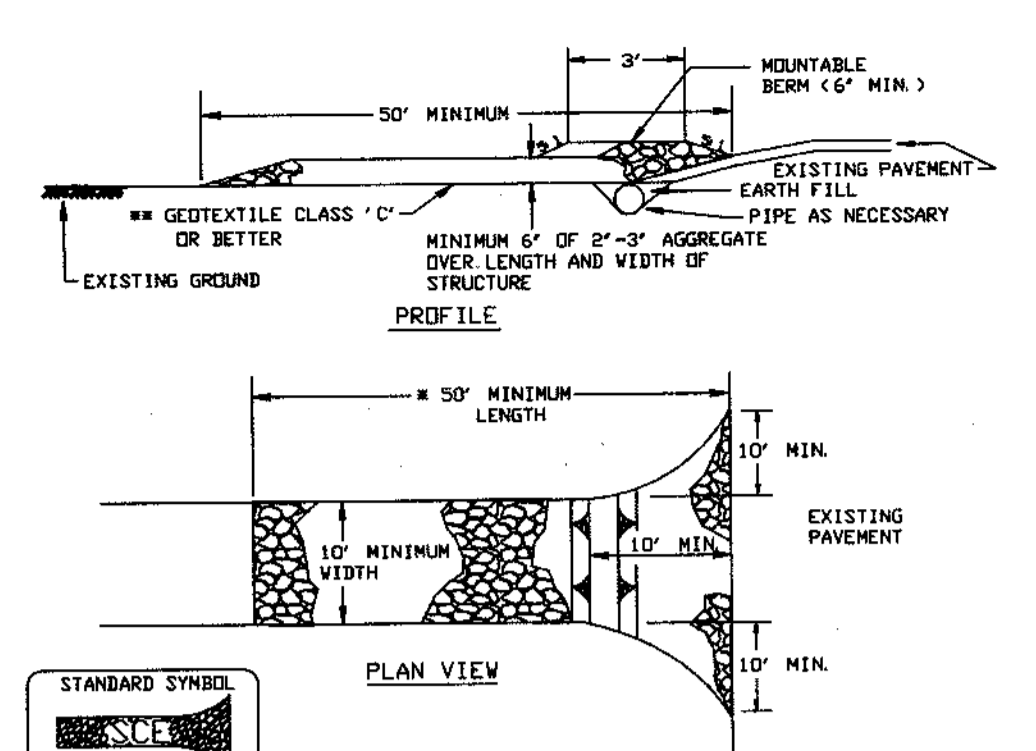
Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.
John R. Robinson Date: 5/19/98
District Howard Soil Conservation Dist.

Approved: Department Of Planning And Zoning
John W. Meade Date: 6/12/98
Chief, Division Of Land Development

John W. Meade Date: 6/2/98
Chief, Development Engineering Division

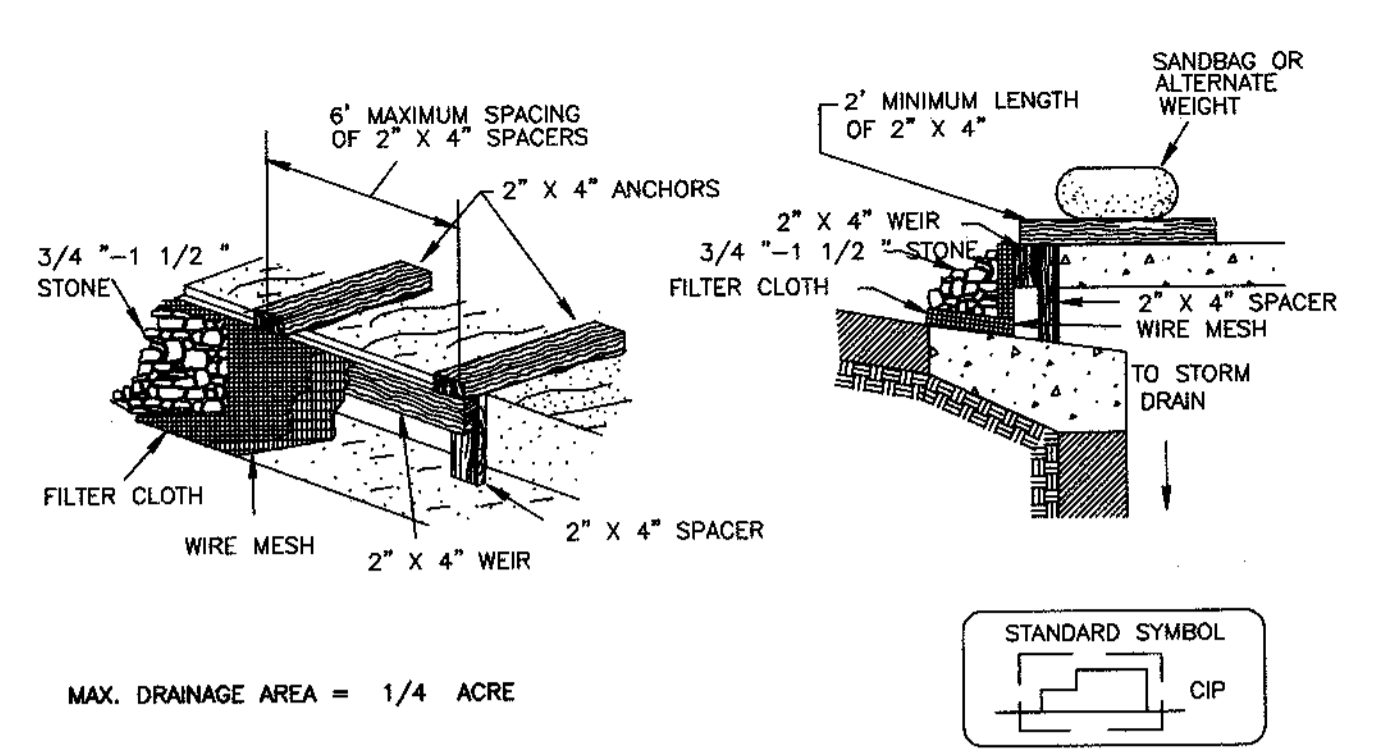
Approved: Howard County Department Of Public Works
Robert M. Dwyer Date: 5-29-98
Chief, Bureau Of Highways

DETAIL SHEET
DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS " I " AND " J "
(A RESUBDIVISION OF PARCEL E & G - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT NOS. 12759 THRU 12766)
ZONING: R-ED
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 1, 1997
SHEET 11 OF 13



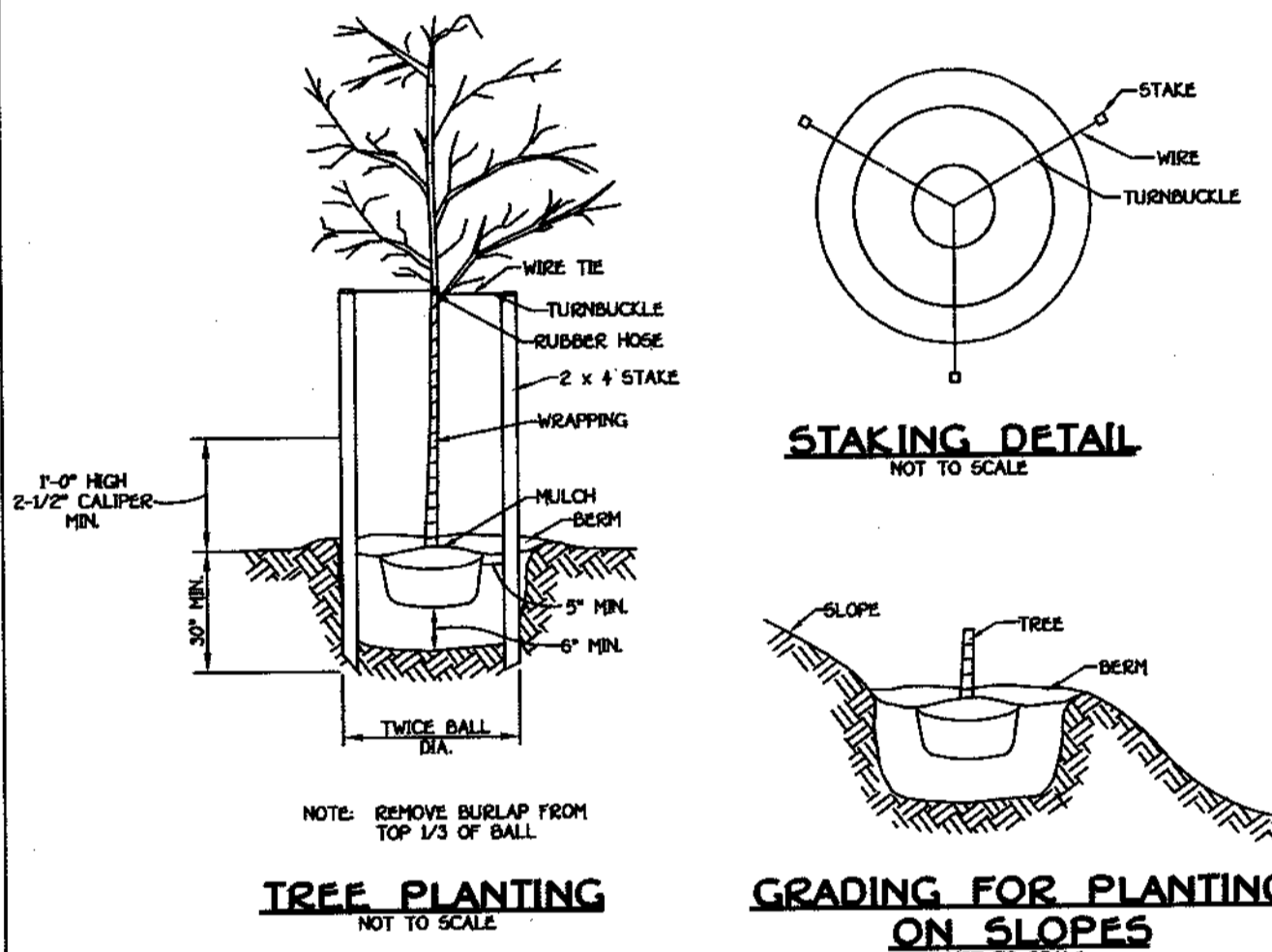
- Construction Specifications**
- Length - minimum of 50' (x30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - 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.
 - 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 nountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe shall be sized according to the drainage. When the site 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.
 - 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.

STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE



- Construction Specifications**
- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to a 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
 - Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

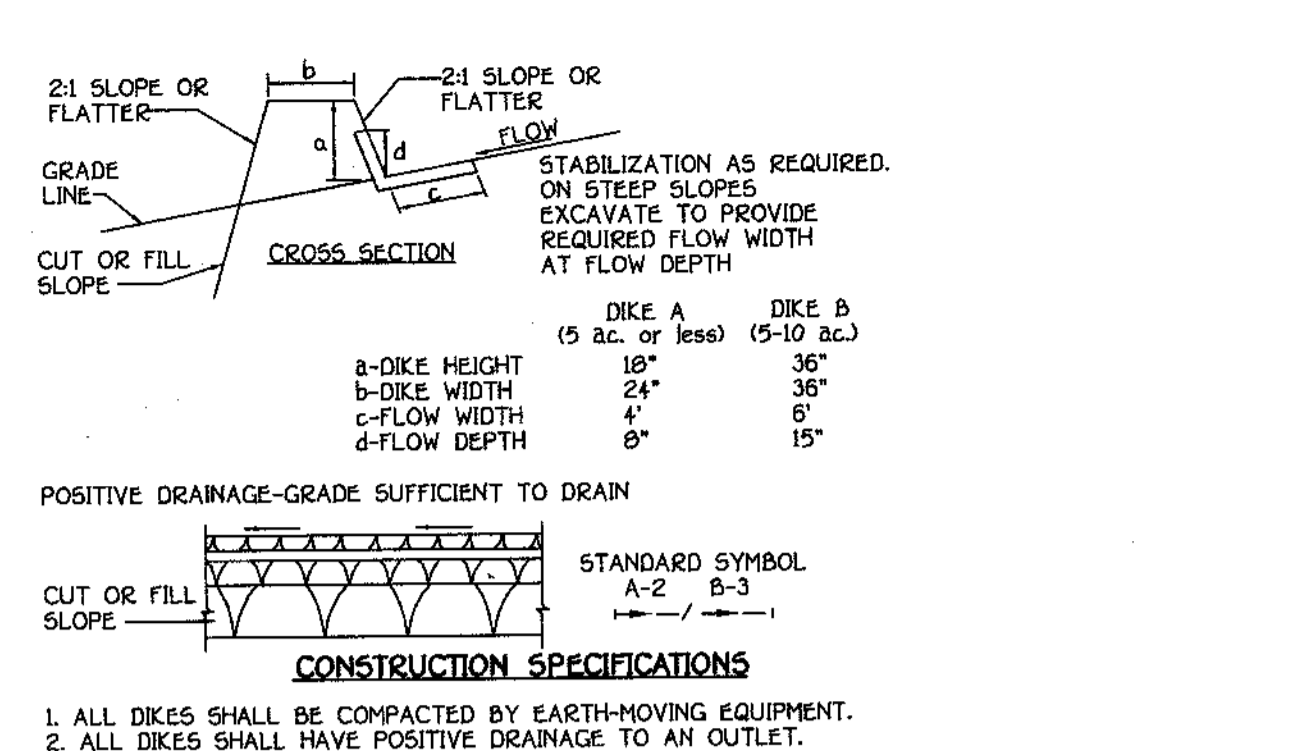
STANDARD CURB INLET PROTECTION
NOT TO SCALE



- SEEDING CONTROL NOTES**
- 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 ANY CONSTRUCTION OR GRADING.
 - 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, STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - 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.
- SITE ANALYSIS**
- | | |
|------------------------------------|----------------|
| TOTAL AREA OF SITE | 38.87 ACRES |
| AREA TO BE ROOFED OR PAVED | 14.06 ACRES |
| AREA TO BE VEGETATIVELY STABILIZED | 3.15 ACRES |
| TOTAL CUT | 4.78 CU.YDS. |
| TOTAL FILL | 15.500 CU.YDS. |
- OFFSITE WASTE/BORROW AREA LOCATION N/A CU.YDS.**
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - 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.
 - TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895



CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

| TYPE OF TREATMENT | CHANNEL GRADE | DIKE A | DIKE B |
|-------------------|---------------|----------------------------------|--|
| 1 | 5-3.0X | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3:1-5.0X | SEED AND STRAW MULCH | SEED USING JUTE, OR EXCELISIOR 50D; 2" STONE |
| 3 | 5:1-8.0X | SEED WITH JUTE, OR 50D; 2" STONE | LINED RIP-RAP 4"-8" |
| 4 | 8:1-20X | LINED RIP-RAP 4"-8" | ENGINEERING DESIGN |

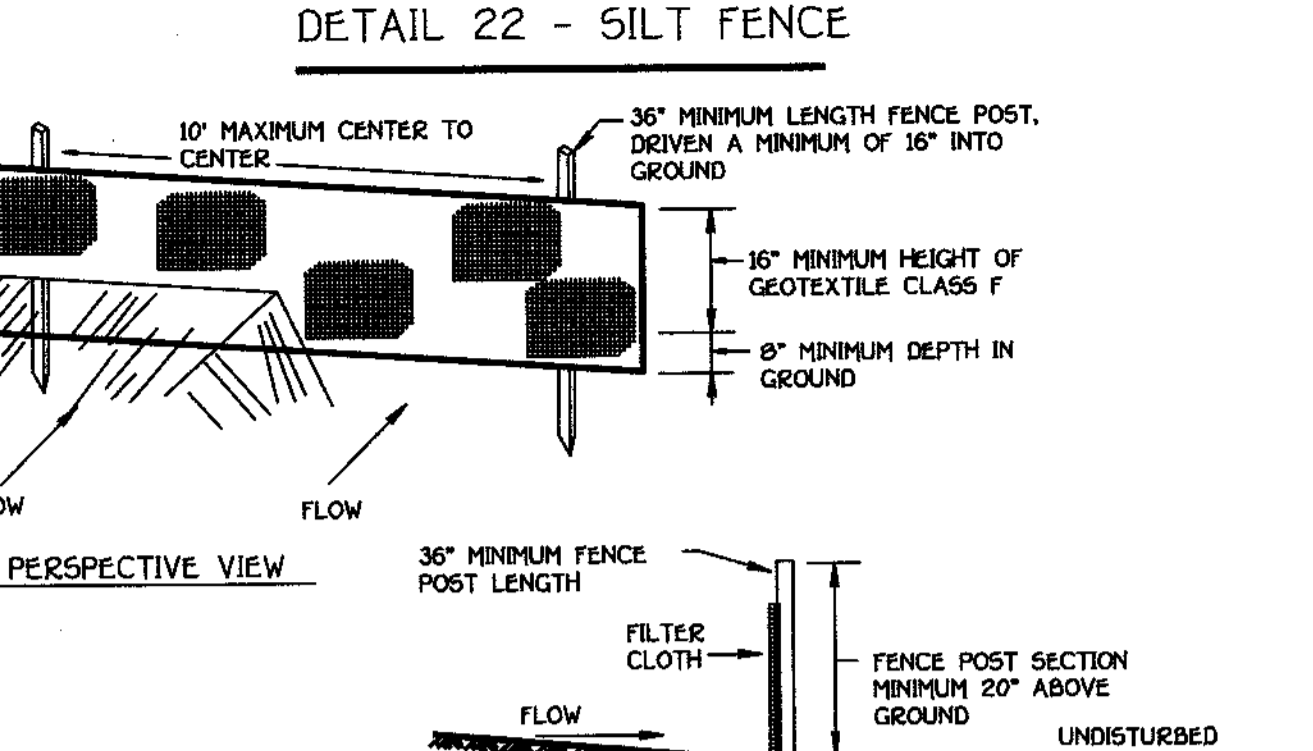
FLOW CHANNEL STABILIZATION DEFINITION

- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- RIIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE
NOT TO SCALE

- VEGETATIVE STABILIZATION**
- Using vegetation as cover for barren soil to protect it from forces that cause erosion. Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.
- VEGETATIVE PRACTICE APPLIES**
- This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dunes, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.
- EFFECTS ON WATER QUALITY AND QUANTITY**
- Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff. Infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seeded preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.
- SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS**
- Site Preparation**
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
 - Fertilizers** shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.
- Seeding Preparation**
 - Temporary Seeding**
 - Seeding preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incorporate lime and fertilizer into the top 3-5" of soil by diking or other suitable means.
 - Permanent Seeding**
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soil pH shall be between 6.0 and 8.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay, but enough fine grained material (60% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if loess or silt loess is to be planted, then a sandy soil (30% silt plus clay) would be acceptable.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - If these conditions cannot be met on site, adding topsoil is required.
 - In accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area, and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - On all sites with disturbed areas in excess of 2 acres, areas shall be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

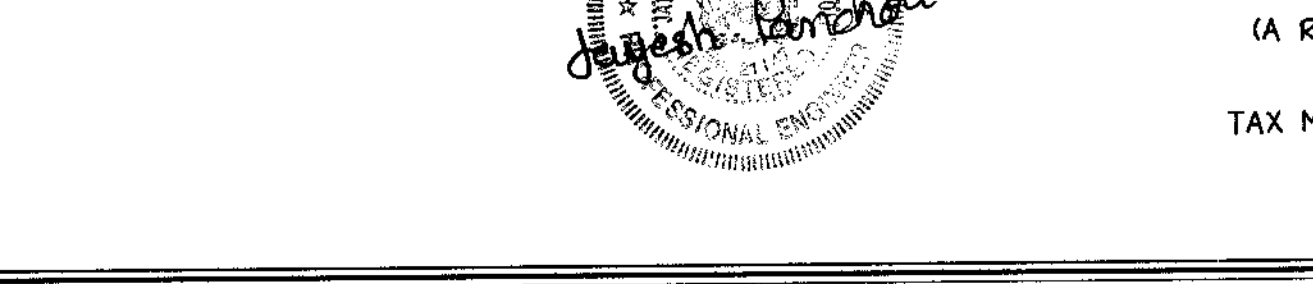


- CONSTRUCTION SPECIFICATIONS**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 100 pound per linear foot.
 - Geotextile 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 lb/in (min) | Test: MSMT 509 |
| Tensile Modulus | 20 lb/in (min) | Test: MSMT 509 |
| Flow Rate | 0.3 gal ft / minute (max.) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min) | Test: MSMT 322 |
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 22 - SILT FENCE

- Incremental Stabilization - Cut Slopes**
 - All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 15'.
 - Construction sequence (Refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.
 - Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the seeding season will necessitate the application of temporary stabilization.
 - Incremental Stabilization of Embankments - Fill Slopes**
 - Embankments shall be constructed in lifts as prescribed on the plans.
 - Use topsoil to stabilize embankments when the vertical height of the multiple lifts reaches 15' or when the grading operation ceases as prescribed in the plans.
 - At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.
 - Construction Sequence** (Refer to Figure 4 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope fill fence on low side of fill as shown in Figure 2, unless other methods shown on the plans address this area.
 - Place Phase 1 embankment, dress and stabilize.
 - Place Phase 2 embankment, dress and stabilize.
 - Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.
- NOTE:** Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completion of the seeding season will necessitate the application of temporary stabilization.



- NOTES:**
- FOREST PROTECTION DEVICE ONLY.
 - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - PROTECTIVE SIGNAGE MAY ALSO BE USED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Signature of Developer: *[Signature]* DATE: 11-14-97

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Signature of Engineer: *[Signature]* DATE: 11-14-97

Signature of Engineer: *[Signature]* DATE: 5/14/98

Signature of Engineer: *[Signature]* DATE: 5/14/98

Signature of Engineer: *[Signature]* DATE: 6/12/98

Signature of Engineer: *[Signature]* DATE: 6/2/98

Signature of Engineer: *[Signature]* DATE: 5-20-98

Signature of Engineer: *[Signature]* DATE: 5-20-98

SEDIMENT CONTROL NOTES AND DETAILS

DANIELS MILL OVERLOOK
SECTION 3, AREA 1
LOTS 230 - 276 AND PARCELS "I" AND "J"
(A RESUBDIVISION OF PARCEL E AND G - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)

ZONING: R-ED
TAX MAP NO.: 17 PART OF PARCEL NO.: 41 AND 547 GRID NO.: 12
SECOND EROSION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER 1, 1997
SHEET 12 OF 13

OWNER
RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
ATTENTION: MR. JOHN W. HEADE
THE RYLAND GROUP, INC.
GALLERIA TOWERS
SUITE 1000
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21048

DEVELOPER
THE RYLAND GROUP, INC.
ATTENTION: MR. JOHN W. HEADE
GALLERIA TOWERS
SUITE 1000
1447 YORK ROAD
LUTHERVILLE, MARYLAND 21048

WATER QUALITY CONSTRUCTION SPECIFICATIONS

SPECIFICATIONS

1. **SITE PREPARATION AREAS DESIGNATED FOR BORROW AREAS**
 EMBANKMENT AND STRUCTURAL WORKS SHALL BE CLEARLY GRADED AND STRENGTHENED. ALL TREES, VEGEATION, ROOTS AND OTHER OBSTRUCTIBLE MATERIAL SHALL BE REMOVED. CHANNEL, BANKS AND SHOULDER BENCHES SHALL BE ALIGNED TO FIT EXISTING OR NEW ASSETS TO BE COVERED BY THE POND OR RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, STUMPS AND OTHER OBSTRUCTIBLE MATERIAL UNLESS OTHERWISE SPECIFIED ON THE PLAN. TREE, BUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH GROUND SURFACE, FOR BEST STORMWATER MANAGEMENT PRACTICES. A MINIMUM OF A 50 FOOT BUFFER AROUND THE INLET STRUCTURE SHALL BE CLEARED.

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

2. **EMBANKMENT**
 MATERIAL THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, SUBSISTANT OVERSIZE STONES, FROZEN OR OTHER OBSTRUCTIBLE MATERIALS. FILL MATERIAL SHALL CONFORM TO UNITED STATES CLASSIFICATION (U.S. C.S. OR C.L.). CONSTRUCTION MAY BE OPEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT DESIGN AND CONSTRUCTION ARE SUPERVISED BY A REGISTERED ENGINEER.

PLACEMENT: AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. MATERIALS SHALL BE PLACED IN 8" TO 12" THICK LAYERS. EACH LAYER SHALL BE COMPACTED TO THE SPECIFIED DENSITY. THE MAXIMUM PERMISSIBLE BLOW COUNT SHALL BE PLACED IN THE COMPACTED LAYERS OF THE EMBANKMENT. THE MINIMUM SPILLWAY SHALL BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.

3. **CONCRETE**
 CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 506. PER NO. 3.

ROCK REPAIR
 ROCK REPAIR SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 506.

CARE OF WATER DURING CONSTRUCTION
 ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DRAINAGE LEVIES, CONVEYORS, 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 THE REMOVAL OF WATER FROM THE 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 LEAVED AND GRADDED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DESIGN UNLESS OTHERWISE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE REQUIRED EXCAVATION AND THE FOUNDATION STABILITY OF THE EXCAVATED AREAS AND TO THE EXTENT THAT WILL MAINTAIN THE PLACING AND COMPACTING OF MATERIAL IN DESIGN 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 BOTTOM OF TO SUPPLY FROM WHICH THE WATER SHALL BE PUMPED.

4. **STABILIZATION**
 ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SUITABLE CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT/SPILLWAY, SOIL, AND BORROW AREAS, AND SOILS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING, AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (95-340) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

5. **EROSION & SEDIMENT CONTROL**
 CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED & WATER & AIR POLLUTION PREVENTED. 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.

6. **PEL COMPLETION**
 ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

1. **POLYVINYL CHLORIDE (PVC) PIPE** - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE (PVC) PIPE:
 1. MATERIALS - PVC PIPE SHALL BE PVC-1220 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.
 2. JOINTS AND CONNECTIONS TO ANTI-SHEEP COLLARS SHALL BE COMPLETELY WATER-TIGHT.
 3. BEDDING - THE PIPE SHALL BE FINELY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. SAND OR SOFT SAND OR OTHER UNDESIRABLE SOIL IS PROHIBITED. ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED BY SUITABLE MATERIAL DESIGNED TO PROVIDE ADEQUATE SUPPORT.
 4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".
 5. OTHER DETAILS (ANTI-SHEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

2. **CONCRETE**
 CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 506. PER NO. 3.

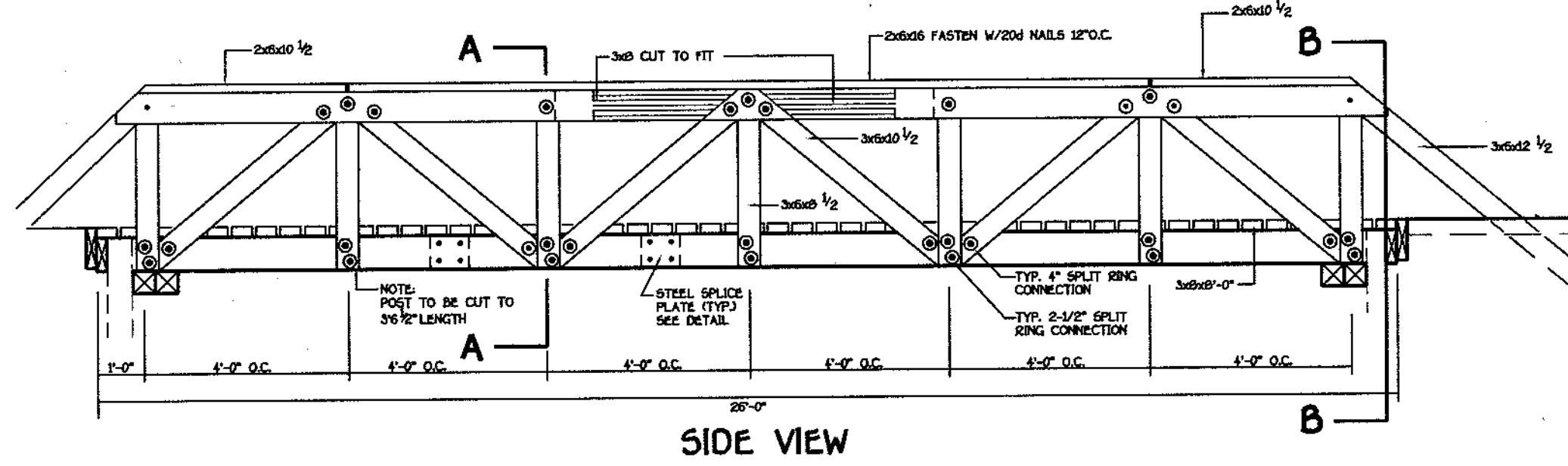
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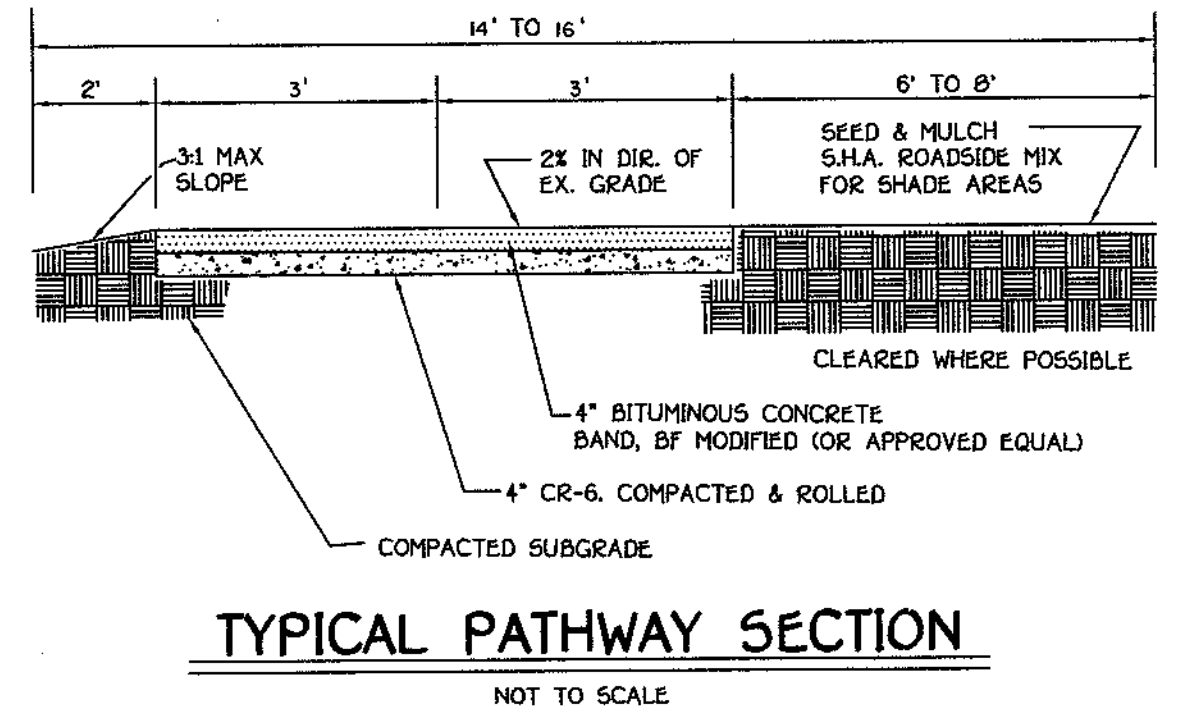
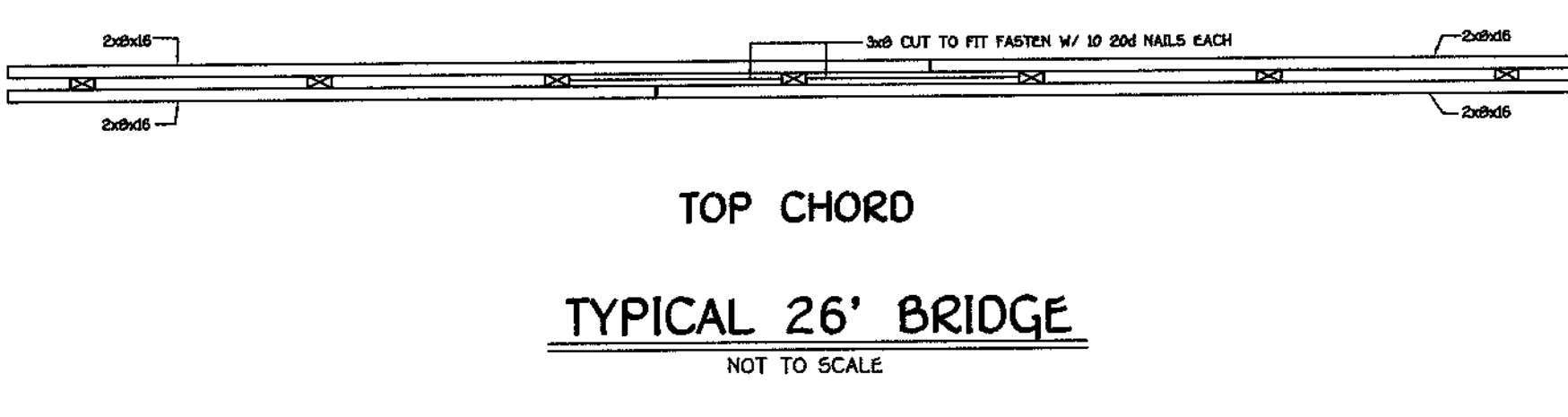
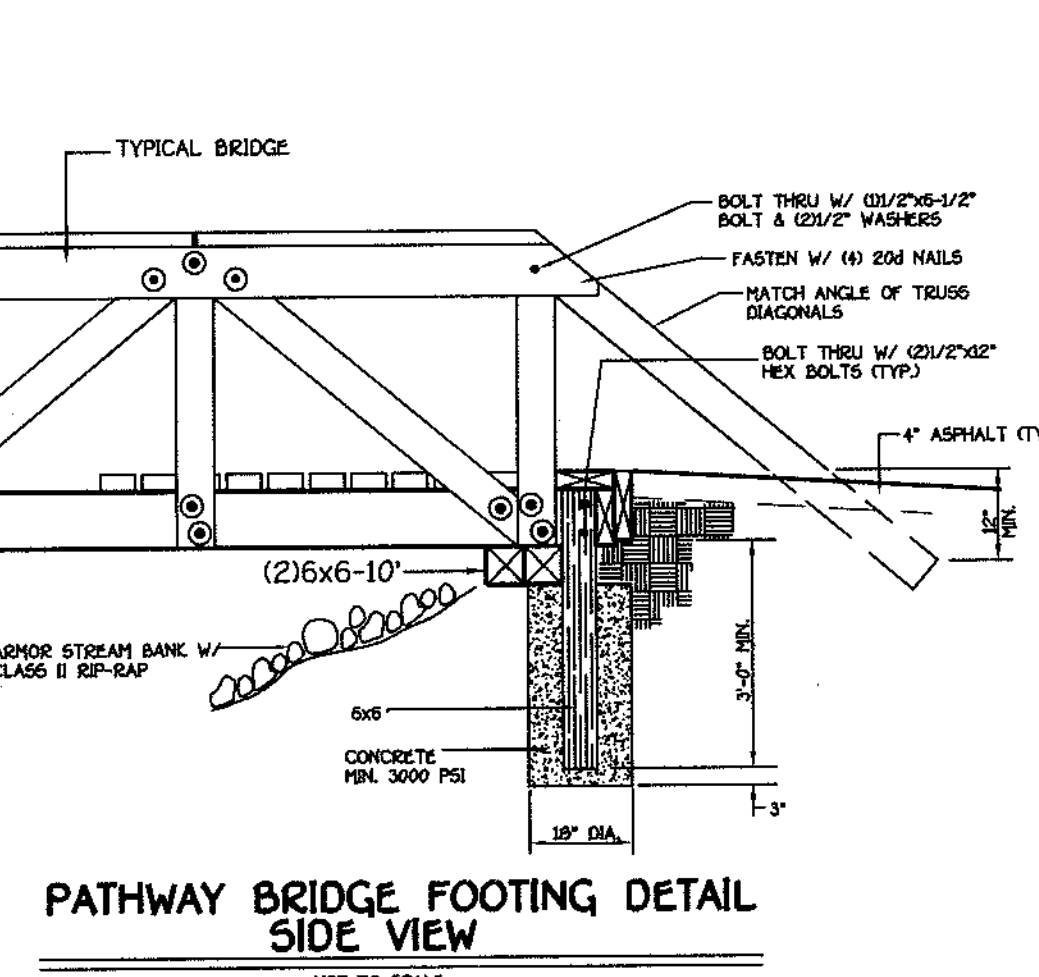
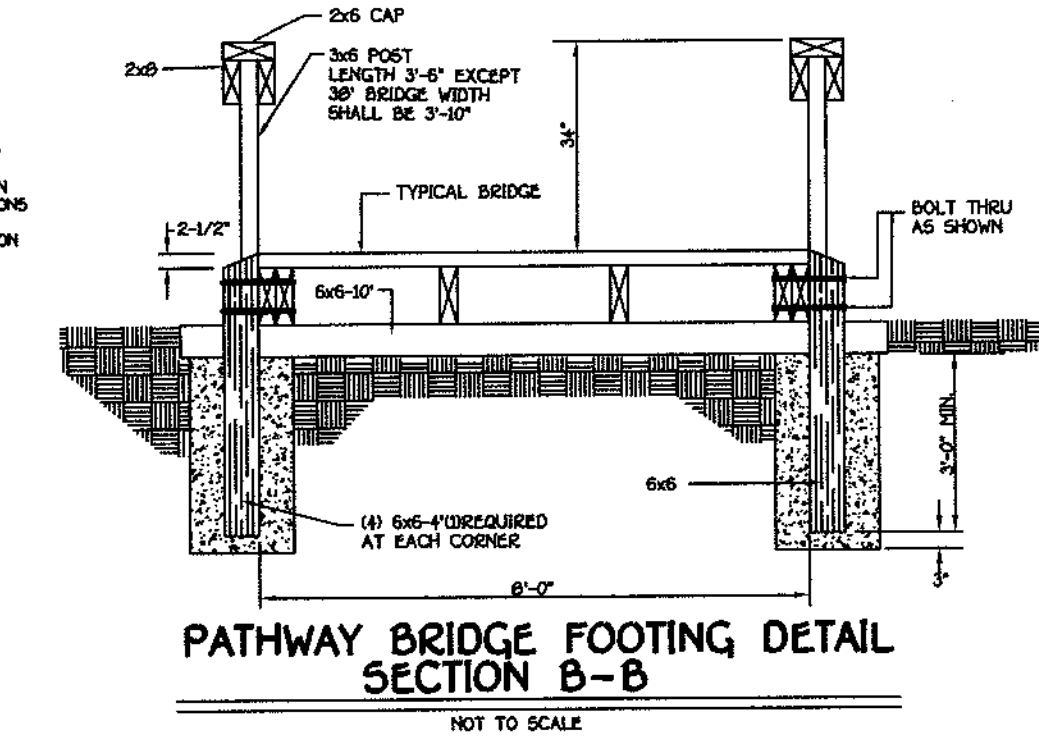
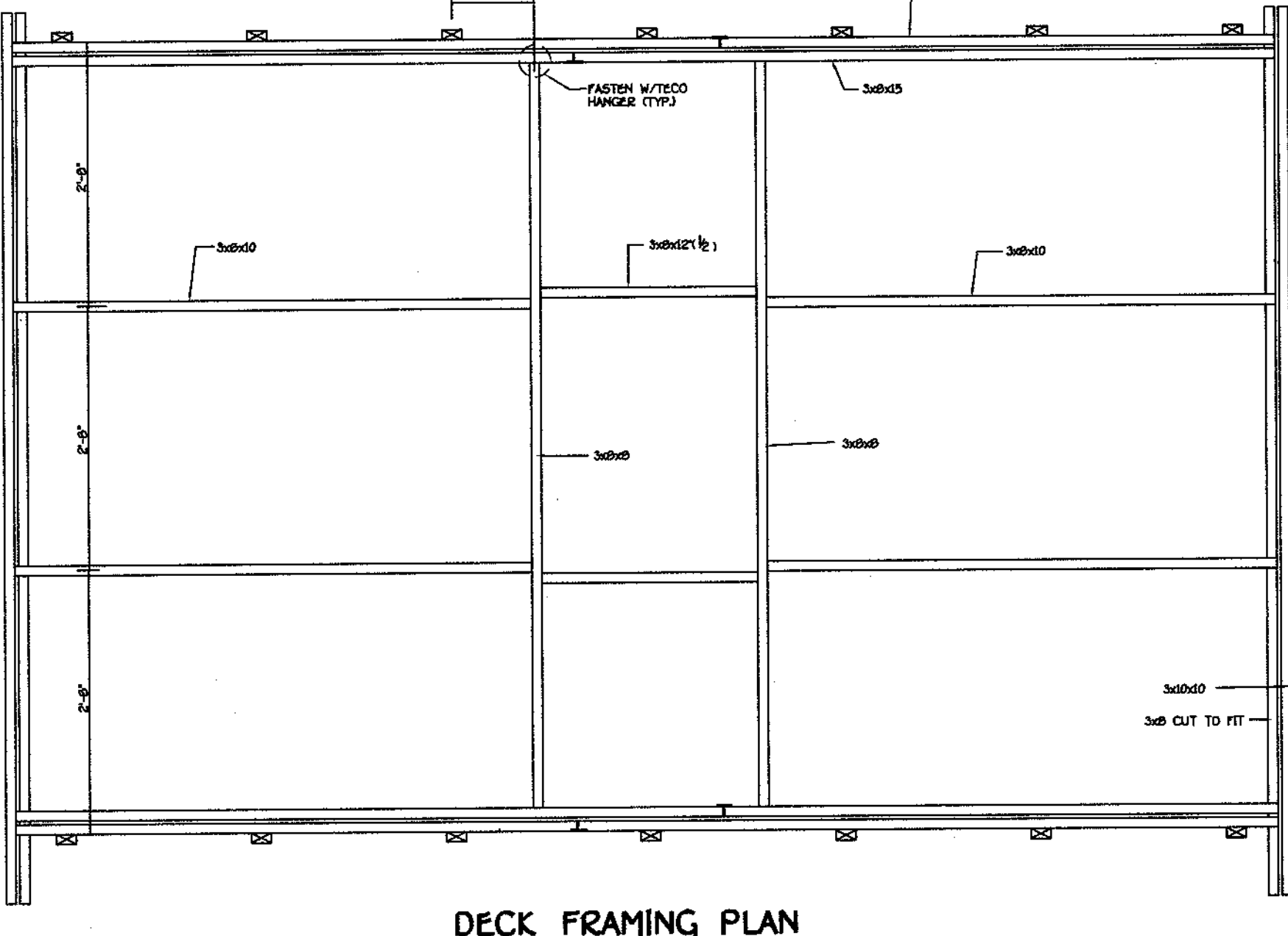
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6. **PEL COMPLETION**
 ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.



26' BRIDGE MATERIALS

| MATERIAL | NO. REQUIRED |
|----------------------|--------------|
| 2x6x10' | 2 |
| 2x6x10' | 2 |
| 2x6x10' | 4 |
| 2x6x10' | 4 |
| 3x6x8' | 7 |
| 3x6x10' | 2 |
| 3x6x10' | 42 |
| 3x6x12' | 2 |
| 3x6x8' P.E.T. | 4 |
| 3x6x8' | 6 |
| 3x6x10' | 4 |
| 3x6x12' | 4 |
| 3x6x15' | 4 |
| 3x10x10' | 2 |
| 4" RINGS | 12 |
| 2-1/2" RINGS | 72 |
| 1/2"x6-1/2" HEX BOLT | 16 |
| 1/2"x6-1/2" HEX BOLT | 26 |
| 1/2"x8-1/2" HEX BOLT | 40 |
| JOIST HANGER 3x8 | 12 |
| 1/2" FLAT WASHER | 68 |
| 1/2" LOCK WASHER | 78 |
| 1/2" NUT | 78 |
| 7x10 SPLICE PLATE | 4 |



PRIMARY WETLAND VEGETATION

| PLANT SPECIES | SIZE | REMARKS |
|---------------------------|-------|----------|
| SAGITTARIA LATIFOLIA (SL) | ROOTS | 36" O.C. |
| DUCK POTATO | | |
| SCIRPUS AMERICANUS (SA) | ROOTS | 36" O.C. |
| COMMON THREE SQUARE | | |

SECONDARY WETLAND VEGETATION

| PLANT SPECIES | SIZE | REMARKS |
|--------------------------------|-------|----------|
| CEPHALANTHUS OCCIDENTALIS (CO) | ROOTS | |
| BUTTON BUSH | | |
| PELTANDRA VIRGINICA (PV) | ROOTS | 36" O.C. |
| ARROW - ARUM | | |
| PONTEDERIA CORDATA (PC) | ROOTS | 36" O.C. |
| PICKEREL WEED | | |

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John P. Sumner 11-19-97
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

John P. Sumner 11-19-97
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John P. Sumner 5/18/98
 U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John P. Sumner 5/18/98
 SIGNATURE OF DISTRICT ENGINEER DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Candy Hamilton 6/19/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John P. Sumner 6/2/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

Andrew M. Quake 5-29-98
 CHIEF, BUREAU OF HIGHWAYS DATE

AS-BUILT CERTIFICATION

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 PE. NO. _____
 DATE _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ON-SITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ON-SITE 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 PONDS/SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS STANDARDS AND SPECIFICATIONS FOR PONDS (95-376). 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.

HOMEOWNER'S ASSOCIATION MAINTENANCE RESPONSIBILITIES FOR SHALLOW MARSH

- INSPECTION FOREBAY AFTER EACH STORM - IF SEDIMENT BUILDUP EXCEEDS FOUR (4) INCHES, NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS TO FACILITATE CLEANOUT OPERATIONS.
- REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AFTER EVERY STORM, AS NECESSARY.
- ANNUAL INSPECTION AND REPAIR OF THE GABION STRUCTURES, AS NEEDED.
- VEGETATION GROWING ON THE EMBANKMENT TOP OR FACES IS NOT ALLOWED TO EXCEED 30 INCHES IN HEIGHT AT ANYTIME.
- CORRECTIVE MAINTENANCE IS REQUIRED ANYTIME THE FOREBAY DOES NOT DRAIN DOWN TO THE DESIGNED SURFACE ELEVATION WITHIN 60 HOURS.
- NOTE: THIS FACILITY IS TO BE JOINTLY MAINTAINED BY THE H.O.A. FOR DANIELS MILL OVERLOOK AND THE DEPARTMENT OF PUBLIC WORKS.

| PLANT LIST | | | |
|------------|-----|--|---------------------|
| QTY. | KEY | NAME | SIZE |
| 23 | ⊕ | ACER RUBRUM (OCTOBER GLORY) OCTOBER RED MAPLE | 2" - 2 1/2" CALIPER |
| 29 | * | PINUS STROBUS (EASTERN WHITE PINE) | 6' - 8.5' HEIGHT |

* THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 15.12A OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE (52) REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$2 X 100.00 \$5,200.00
 \$1,500.00
 \$4,700.00 TOTAL

WATER QUALITY NOTES AND DETAILS

DANIELS MILL OVERLOOK SECTION 3, AREA 1

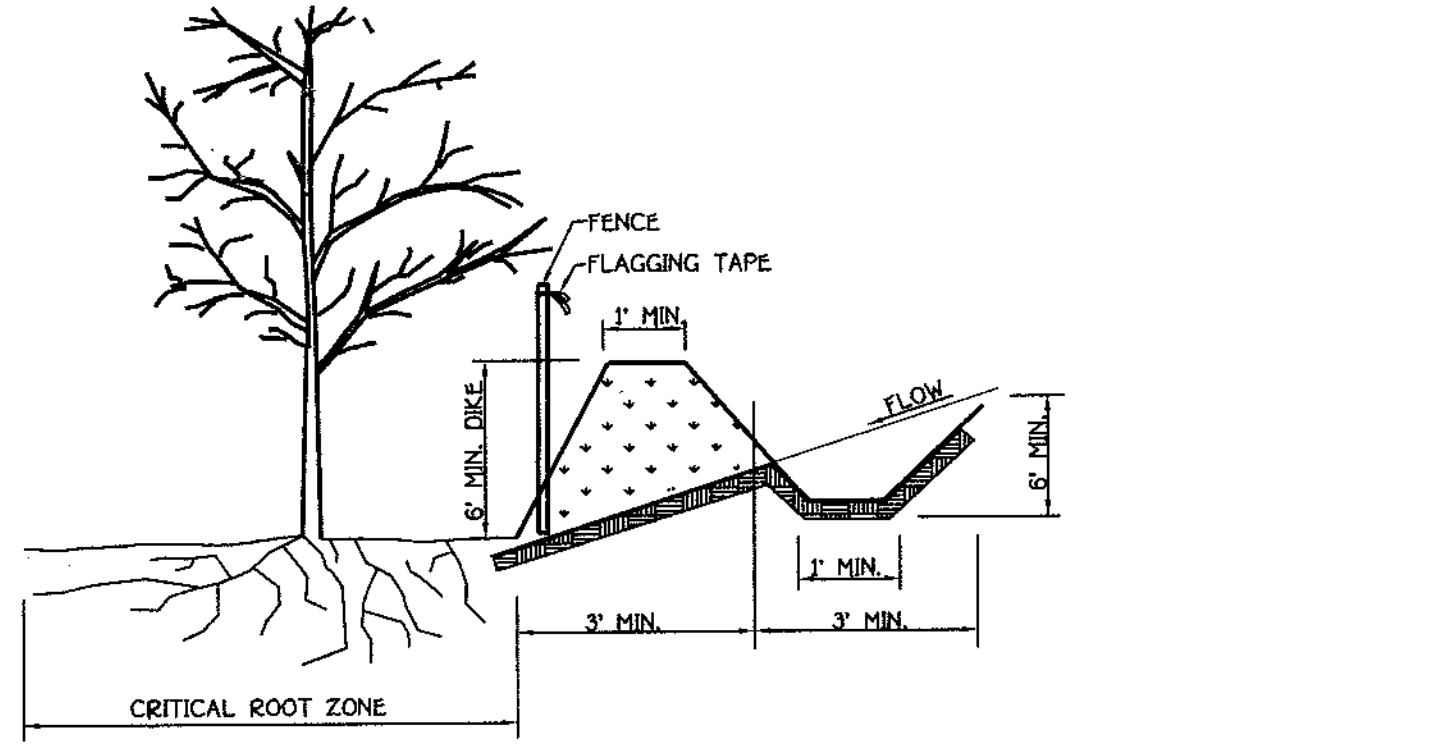
LOTS 230 - 276 AND PARCELS " I " AND " J "

(A RESUBDIVISION OF PARCEL E & G - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT NOS. 12759 THRU 12766)

ZONING: R-ED

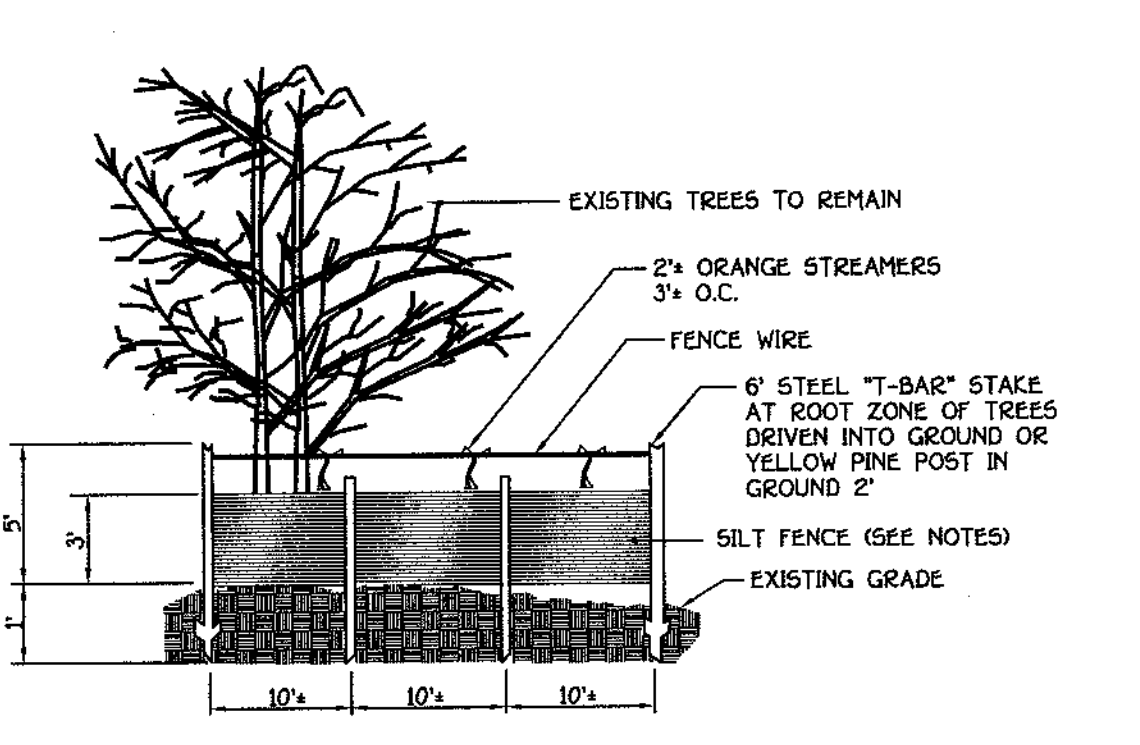
TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER 1, 1997

SHEET 13 OF 13



- Combine sediment control and forest protection device.
- Boundaries of Retention Area will be established as part of the forest conservation plan review process.
- Boundaries of Retention Area should be staked prior to installing protection device.
- Root damage should be avoided.
- Toe of slope should be outside the Critical Root Zone.
- Equipment is prohibited within Critical Root Zone Area place dice accordingly.
- All standard maintenance for earth dikes and swales apply to these details.
- All standard reclamation practices for earth dikes and swales shall apply to these details.

EARTH DIKE AND SWALE COMBINATION DEVICE



- Silty Fence to be heeled into the soil.
- Wire, snow fence, etc. for tree protection only.
- Boundaries of Retention Area will be established as part of the forest conservation plan review process.
- Boundaries of Retention Area should be staked and flagged prior to installing device.
- Device should be properly maintained throughout construction.
- Protection signs are also required, see Figure C-4.
- Locate fence outside the Critical Root Zone.

SILTY FENCE AND TREE PROTECTION

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410-661-3995

OWNER
 RYLAND HOMES AT HOLLYFIELD STATION, LLC.
 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLEGRA TOWERS, SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MD. 21093

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEADE
 GALLEGRA TOWERS, SUITE 705
 1447 YORK ROAD
 LUTHERVILLE, MARYLAND 21093

| SCHEDULE A - PERIMETER LANDSCAPE EDGE | | |
|--|-------------------------|----------------------------------|
| PERIMETER | I | Adjacent to Perimeter Properties |
| CATEGORY | Adjacent to Public Road | N/A |
| LANDSCAPE TYPE | N/A | A |
| LINEAR FEET OF PERIMETER | 770' | 710' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | YES (570') | No |
| CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED) | - | - |
| NUMBER OF PLANTS REQUIRED | | |
| SHADE TREES | 0 | 12 |
| EVERGREEN TREES | - | - |
| SHRUBS | - | - |
| NUMBER OF PLANTS PROVIDED | | |
| SHADE TREES | 0 | 5 |
| EVERGREEN TREES | - | - |
| OTHER TREES (2:1 SUBSTITUTION) | - | - |
| SHRUBS (10:1 SUBSTITUTION) | - | - |
| (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED) | - | - |

| LANDSCAPING PLANT LIST | | | |
|------------------------|-----|---|------------------------------------|
| QTY. | KEY | NAME | SIZE |
| 5 | | ACER RUBRUM (OCTOBER GLORY) (OCTOBER RED MAPLE) | 2 - 2 1/2" CALIPER FULL CROWN, BAB |
| 18 Ex. | | Layland Cypress | 0-10 |
| 9 Ex. | | White Pine | 6-8 |
| 1 Ex. | | Black Cherry | 8" Multi-Stem |
| 1 Ex. | | Flowering Dogwood | 8" |
| 2 Ex. | | Osage Orange | 8" |
| 1 Ex. | | Red Maple | 8" |

"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL". FINANCIAL SURETY FOR THE 15 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$1,500.00.

| STREET TREE SCHEDULE | | | |
|----------------------|--|---------------------|-------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

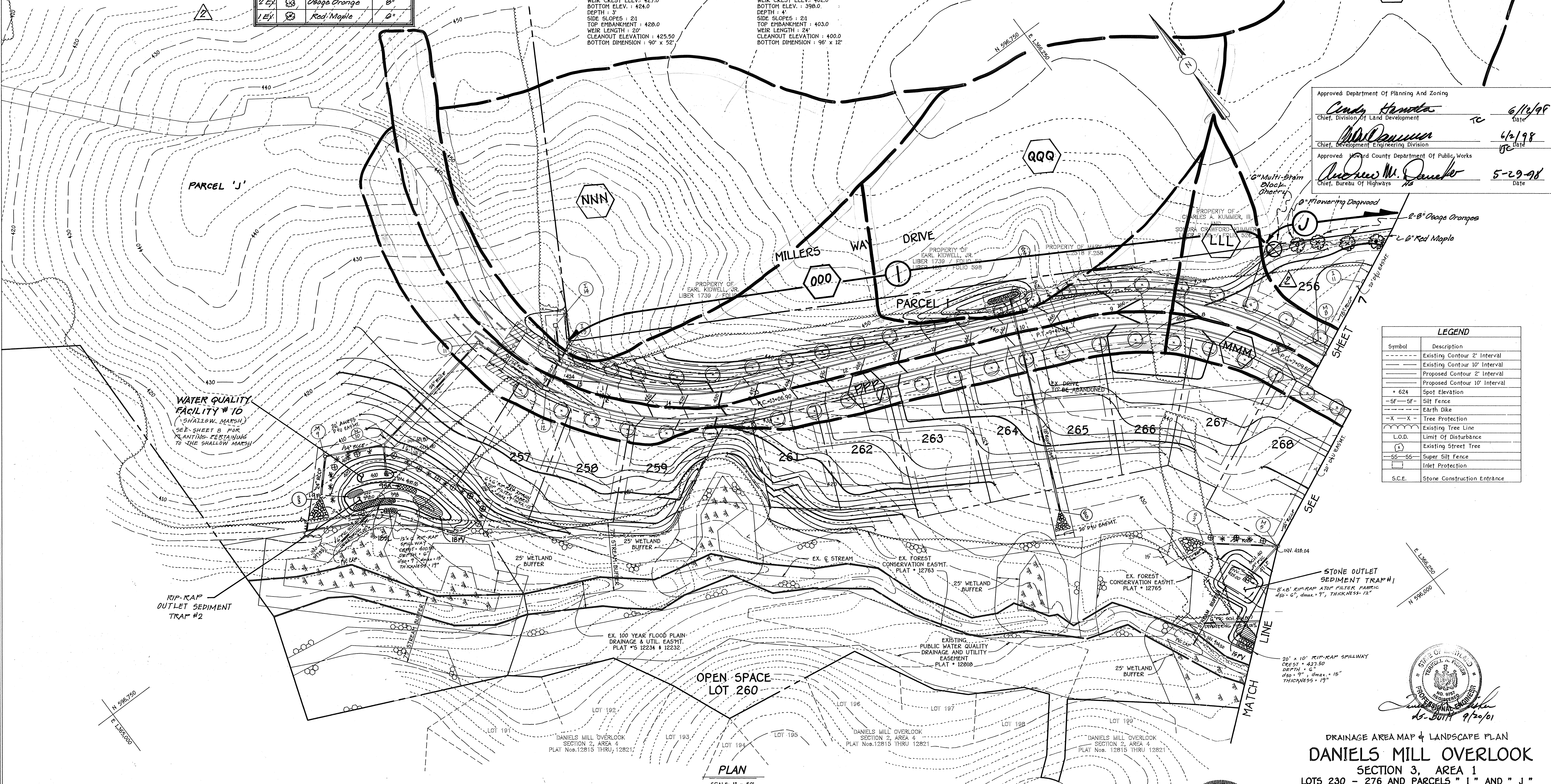
- 46 STREET TREES (THIS SHEET)

STONE OUTLET SEDIMENT TRAP #1

EX. DRAINAGE AREA: 4.91 AC.
PROP. DRAINAGE AREA: 4.83 AC.
STORAGE REQUIRED: 17,749 C.F.
STORAGE PROVIDED: 21,680 C.F.
WEIR CREST ELEV.: 427.0
BOTTOM ELEV.: 424.0
DEPTH: 3'
SIDE SLOPES: 2:1
TOP EMBANKMENT: 428.0
WEIR LENGTH: 20'
CLEANOUT ELEVATION: 425.50
BOTTOM DIMENSION: 9'0" x 5'2"

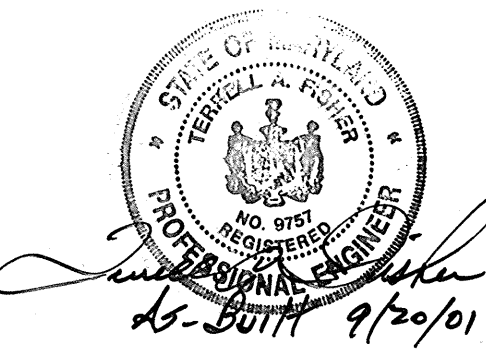
RIP RAP OUTLET SEDIMENT TRAP #2 (ST-IV)

EX. DRAINAGE AREA: 6.19 AC.
PROP. DRAINAGE AREA: 6.01 AC.
STORAGE REQUIRED: 17,749 C.F.
STORAGE PROVIDED: 22,103 C.F.
WEIR CREST ELEV.: 402.0
BOTTOM ELEV.: 398.0
DEPTH: 4'
SIDE SLOPES: 2:1
TOP EMBANKMENT: 403.0
WEIR LENGTH: 24'
CLEANOUT ELEVATION: 400.0
BOTTOM DIMENSION: 9'6" x 12'



Approved: Department of Planning And Zoning
Cindy Hanota 6/12/98
 Chief, Division of Land Development
Mr. Danuser 6/2/98
 Chief, Development Engineering Division
 Approved: Howard County Department of Public Works
Andrew M. Daneker 5-29-98
 Chief, Bureau of Highways

| LEGEND | |
|--------|-------------------------------|
| Symbol | Description |
| | Existing Contour 2' Interval |
| | Existing Contour 10' Interval |
| | Proposed Contour 2' Interval |
| | Proposed Contour 10' Interval |
| | Spot Elevation |
| | Silt Fence |
| | Earth Dike |
| | Tree Protection |
| | Existing Tree Line |
| | Limit of Disturbance |
| | Existing Street Tree |
| | Super Silt Fence |
| | Inlet Protection |
| | Stone Construction Entrance |



DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS #6-DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT Nos. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 8 OF 19

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 ELLICOTT CITY, MARYLAND 21114
 410-461-2925

| No. | Revision | Date |
|-----|--|--------|
| 2 | Eliminated 8 Shade Trees from Parcel "I" (adjacent to public road) & added Perimeter Landscape Edge "J". Indicated actual species for the 8 Shade Trees on Lot 256, revised Schedule "A" and Landscaping Plant List as required. | 6/2/01 |

| STREET TREE SCHEDULE | | | |
|----------------------|--|------------------------|----------------------------|
| SYMBOL | BOTANICAL AND COMMON NAME | SIZE | COMMENTS |
| | ACER RUBUM 'OCTOBER GLORY' RED MAPLE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |
| | PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE | 2 1/2" - 3" CALIPER | 40' APART ON PUBLIC R/W |

NOTE: STREET TREES ARE ONLY A RECOMMENDATION. THIS MAY BE REVISED TO A COUNTY ACCEPTABLE EQUIVALENT.

TOTAL NUMBER OF STREET TREES:

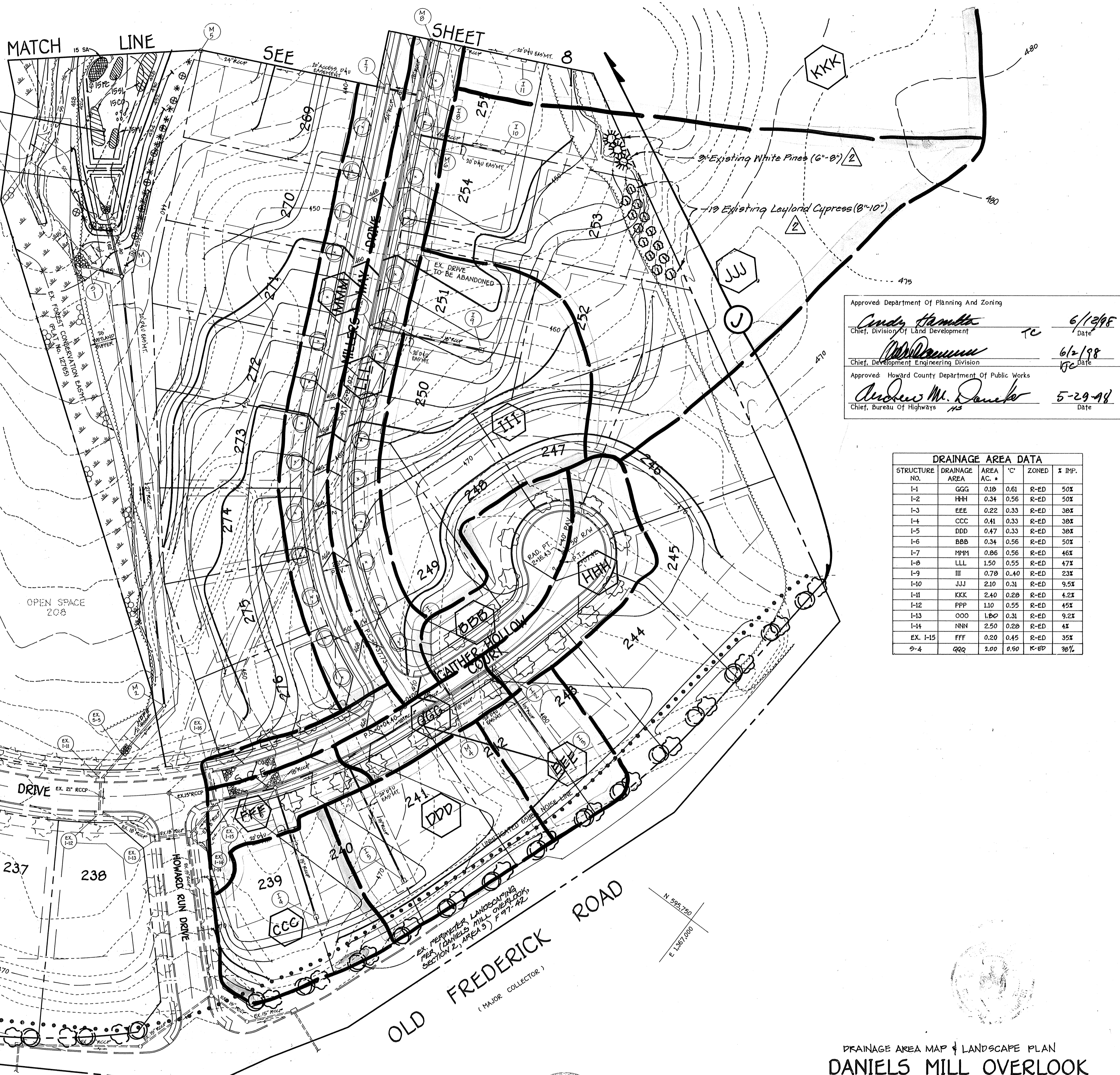
- 20 STREET TREES
- 26 STREET TREES (THIS SHEET)

NOTE: SEE SHEET 13 FOR S.W.M. AREA LANDSCAPING (SCHEDULE D).

WATER QUALITY FACILITY #9 (SHALLOW MARSH)
SEE SHEETS 7 & 8 FOR PLANTING PERTAINING TO THE SHALLOW MARSH.

EX. 100 YEAR FLOOD PLAIN, DRAINAGE AND UTILITY EASEMENT PLAT NO. 12234
8' x 8' RIP-RAP APRON ATOP FILTER PAD
25' x 6' x 1' SLOPE, 4" THICKNESS, 12"

DANIELS MILL OVERLOOK SECTION 2, AREA 4 PLAT # 12215 - 12221



Approved: Department Of Planning And Zoning
Andy Hamilton TC 6/13/98
 Chief, Division Of Land Development Date
Andrew M. Danek 6/2/98
 Chief, Development Engineering Division Date
 Approved: Howard County Department Of Public Works
Andrew M. Danek 5-29-98
 Chief, Bureau Of Highways Date

| DRAINAGE AREA DATA | | | | | |
|--------------------|---------------|----------|------|-------|--------|
| STRUCTURE NO. | DRAINAGE AREA | AREA AC. | 'C' | ZONED | % IMP. |
| I-1 | GGG | 0.10 | 0.61 | R-ED | 50% |
| I-2 | HHH | 0.34 | 0.56 | R-ED | 50% |
| I-3 | EEE | 0.22 | 0.33 | R-ED | 30% |
| I-4 | CCC | 0.41 | 0.33 | R-ED | 30% |
| I-5 | DDD | 0.47 | 0.33 | R-ED | 30% |
| I-6 | BBB | 0.34 | 0.56 | R-ED | 50% |
| I-7 | MMM | 0.86 | 0.56 | R-ED | 46% |
| I-8 | LLL | 1.50 | 0.55 | R-ED | 47% |
| I-9 | III | 0.78 | 0.40 | R-ED | 23% |
| I-10 | JJJ | 2.10 | 0.31 | R-ED | 9.5% |
| I-11 | KKK | 2.40 | 0.28 | R-ED | 4.2% |
| I-12 | PPP | 1.10 | 0.55 | R-ED | 45% |
| I-13 | OOO | 1.00 | 0.31 | R-ED | 9.2% |
| I-14 | NNN | 2.50 | 0.28 | R-ED | 4% |
| EX. I-15 | FFF | 0.20 | 0.45 | R-ED | 35% |
| I-4 | QQQ | 2.00 | 0.60 | K-ED | 30% |

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FREE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2955

DEVELOPER
 THE RYLAND GROUP, INC.
 ATT: MR. JOHN W. MEADE
 GALLERIA TOWERS
 SUITE 705
 1147 YORK ROAD
 LUTHERVILLE, MD. 21093

OWNER
 RYLAND HOMES AT HOLLIFIELD STATION, L.L.C.
 ATT: MR. JOHN W. MEADE
 THE RYLAND GROUP, INC.
 GALLERIA TOWERS
 SUITE 705
 1147 YORK ROAD
 LUTHERVILLE, MD. 21093

| No. | Revision | Date |
|-----|---|--------|
| 2 | Eliminated 2 Shade Trees (1 on Lot 259 & 1 on Lot 255), indicated actual species of Shade Trees & Evergreen Trees (15 Leyland Cypresses on Lot 259 & 3 White Pines on Lot 255), changed Perimeter Landscape Designation to 'J'. | 9-2-05 |

STATE OF MARYLAND
 J. W. FISHER
 PROFESSIONAL ENGINEER
 No. 11111
 As Built 9/20/01

DRAINAGE AREA MAP & LANDSCAPE PLAN
DANIELS MILL OVERLOOK
 SECTION 3, AREA 1
 LOTS 230 - 276 AND PARCELS "I" AND "J"
 (A RESUBDIVISION OF PARCELS 46 - DANIELS MILL OVERLOOK, SECTION 2, AREA 1, PLAT NOS. 12759 THRU 12766)
 ZONING: R-ED
 TAX MAP No: 17 PART OF PARCEL No: 41 AND 547 GRID No: 12
 2nd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 1997
 SHEET 7 OF 13