

GENERAL NOTES

- 1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- 2.) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- 3.) ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN. ALL "A" INLETS SHALL BE DEPRESSED.
- 4.) STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- 5.) ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 6.) CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272
- 7.) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.
- 8.) PIPE BEDDING FOR STORM DRAINAGE TRENCHES SHALL BE CLASS "C" SEE FIGURE 11.4 HOWARD COUNTY DESIGN MANUAL VOLUME 1.

STREET LIGHTS

PROVIDE 175 WATT "MODERN" VAPOR LAMP POST TOP FIXTURES ON 14 FOOT GRAY FIBERGLASS POLES TO BE LOCATED AT THE FOLLOWING LOCATIONS.

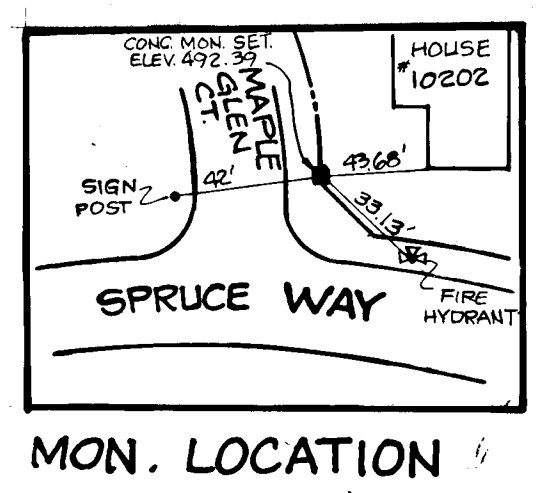
- 1.) SPRUCE WAY AT THE NORTHEAST CORNER OF MAPLE GLEN COURT.
- 2.) MAPLE GLEN COURT STA. 4+50 LEFT.

APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF LAND DEVELOPMENT DIVISION
 DATE 11/13/87

APPROVED
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS
 DATE 11/12/87

APPROVED
 DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 11/18/87

APPROVED
 OFFICE OF PLANNING AND ZONING
 AND ZONING ADMINISTRATION
 DATE 11/2/87



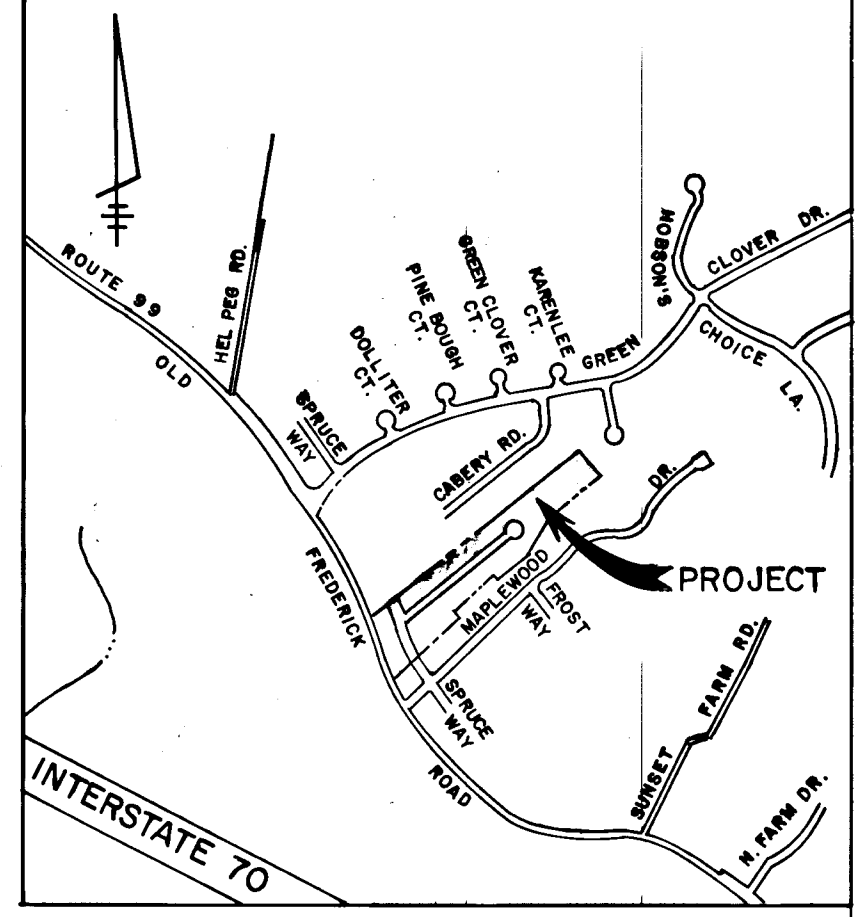
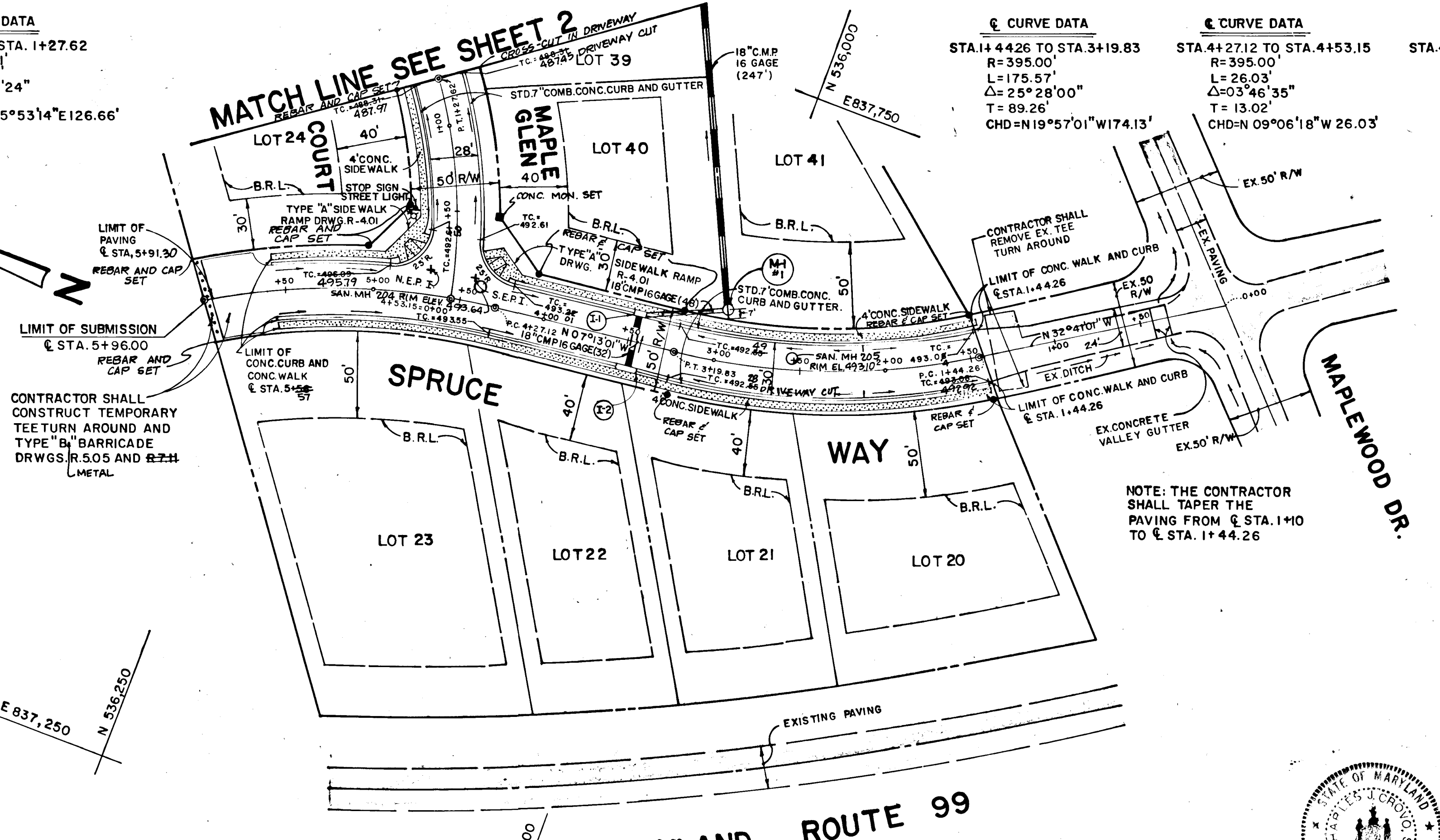
☉ CURVE DATA
 STA. 0+00 TO STA. 1+27.62
 R=300.01'
 L=127.62'
 $\Delta = 24^\circ 22' 24''$
 T=64.79'
 CHD. N 65°53'14" E 126.66'

☉ CURVE DATA
 STA. 1+44.26 TO STA. 3+19.83
 R=395.00'
 L=175.57'
 $\Delta = 25^\circ 28' 00''$
 T=89.26'
 CHD=N 19°57'01" W 174.13'

☉ CURVE DATA
 STA. 4+27.12 TO STA. 4+53.15
 R=395.00'
 L=26.03'
 $\Delta = 03^\circ 46' 35''$
 T=13.02'
 CHD=N 09°06'18" W 26.03'

☉ CURVE DATA
 STA. 4+27.12 TO STA. 5+96.00
 R=395.00'
 L=168.88'
 $\Delta = 24^\circ 29' 46''$
 T=85.75'
 CHD=N 19°27'54" W 167.59'

MATCH LINE SEE SHEET 2



VICINITY MAP
 SCALE: 1" = 1200'

BENCH MARKS

B.M.# G-2 ELEV. 494.07
 REBAR SET IN CENTER OF LOT 23 - TRAVERSE STA "G-2"
 B.M.# G-5 ELEV. 455.38
 REBAR SET 10' SOUTH OF EX. MH #315 - IN OPEN SPACE
 LOT 15 TRAVERSE STA "G-5"
 * SEE SHEET NUMBER 4 OF 5 FOR LOCATIONS

MAPLEWOOD SECTION 4
 LOTS 20-41

SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

SPRUCE WAY MAPLE GLEN COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 MULLICAN PROPERTY PARTNERSHIP C/O
 HOWARD COUNTY LAND SERVICES, INC.
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

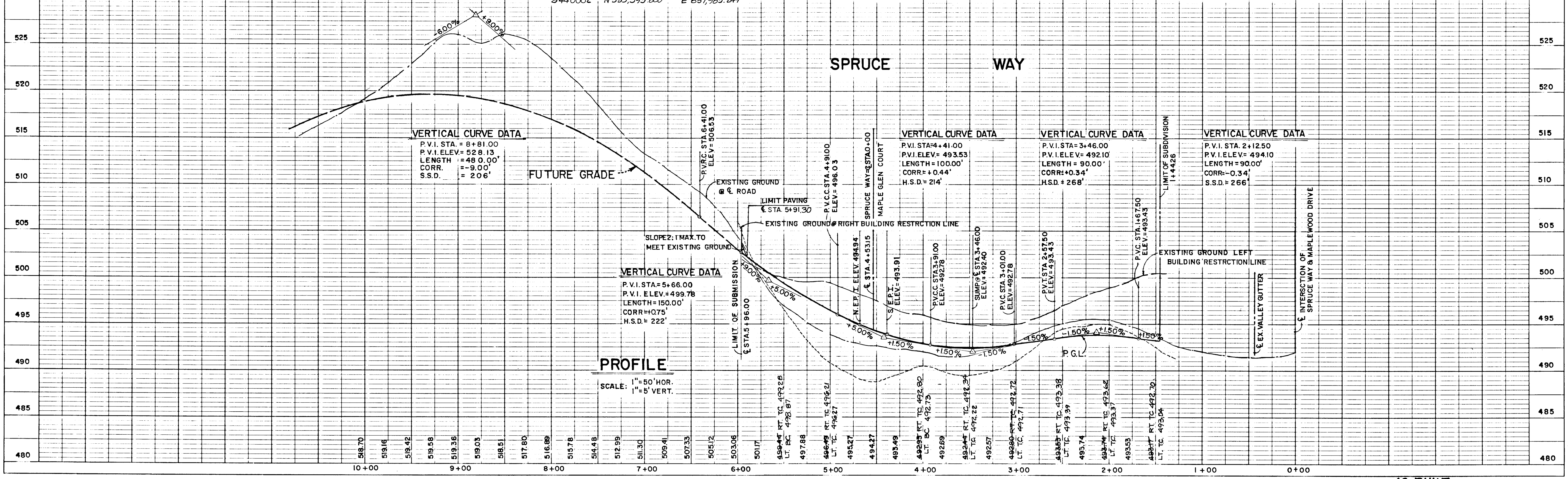
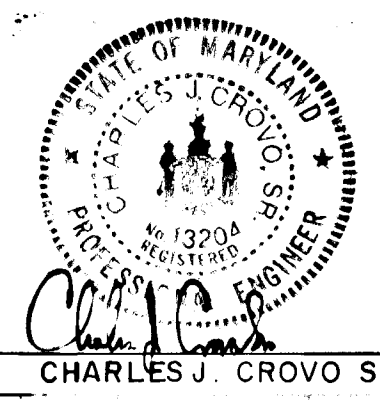
DES. C. J. CROVO
 DRN. S. BOOTH
 CHK. C. J. CROVO

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 838R COURT AVE. ELLICOTT CITY, MARYLAND 21043

THE HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE FOLLOWING STATIONS:
 3440001 N 534,735.478 E 836,286.297
 3440002 N 533,593.800 E 837,983.249

PLAN
 SCALE 1" = 50'

AS-BUILT SURVEY CERTIFIED BY
 CHARLES J. CROVO, MD. P.E. No. 13204 ON 6-5-89



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

DATE
 BY
 CHECKED
 DATE
 PLAN
 NOTE BOOK
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DATE
 BY
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 PROFILE
 NOTE BOOK
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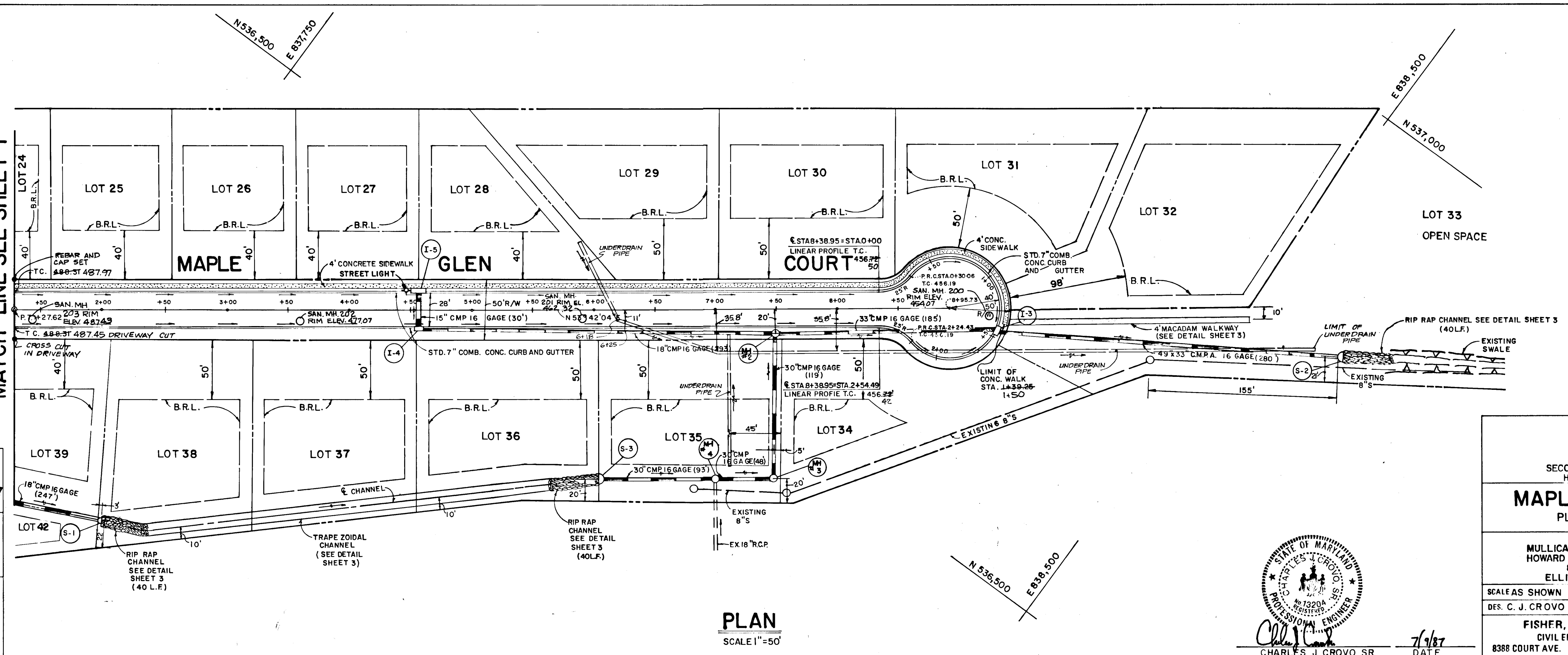
APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF LAND DEVELOPMENT DIVISION DATE

APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
AND ZONING ADMINISTRATION DATE

MATCH LINE SEE SHEET I



PLAN
SCALE 1"=50'



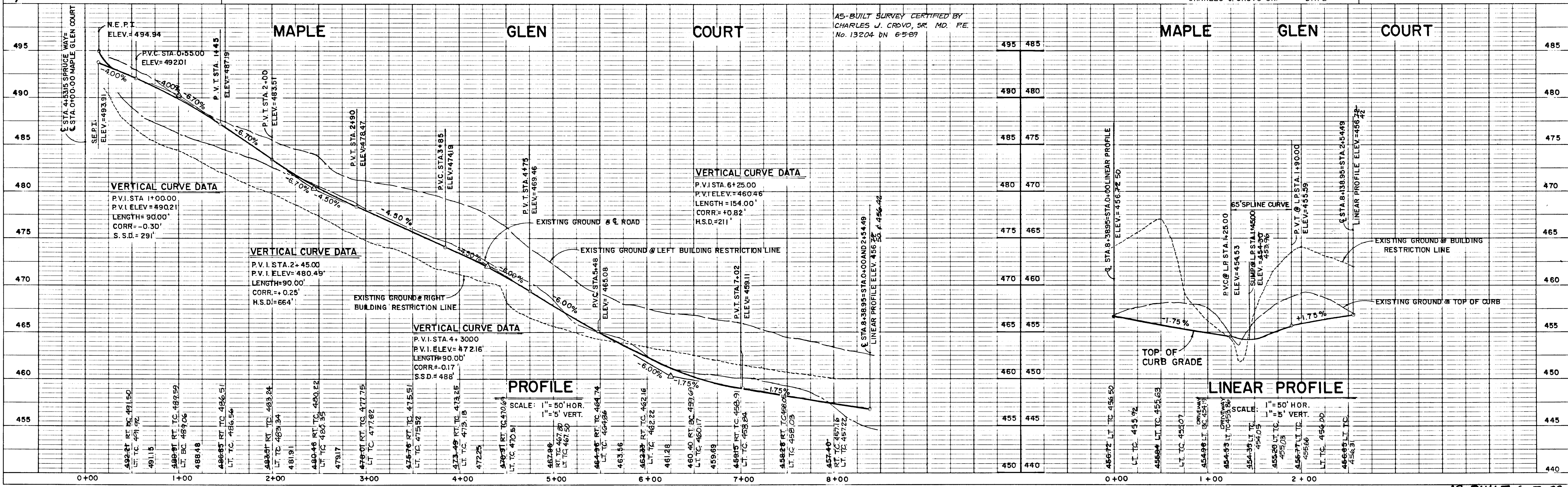
MAPLEWOOD SECTION 4
LOTS 20-41
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

MAPLE GLEN COURT
PLAN AND PROFILE

OWNER AND DEVELOPER
MULLICAN PROPERTY PARTNERSHIP C/O
HOWARD COUNTY LAND SERVICES, INC.
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE: JUNE 30, 1987 DWG. NO. 2 OF 5
DES. C. J. CROVO DRN. SUREE BOOTH CHK. C. J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043



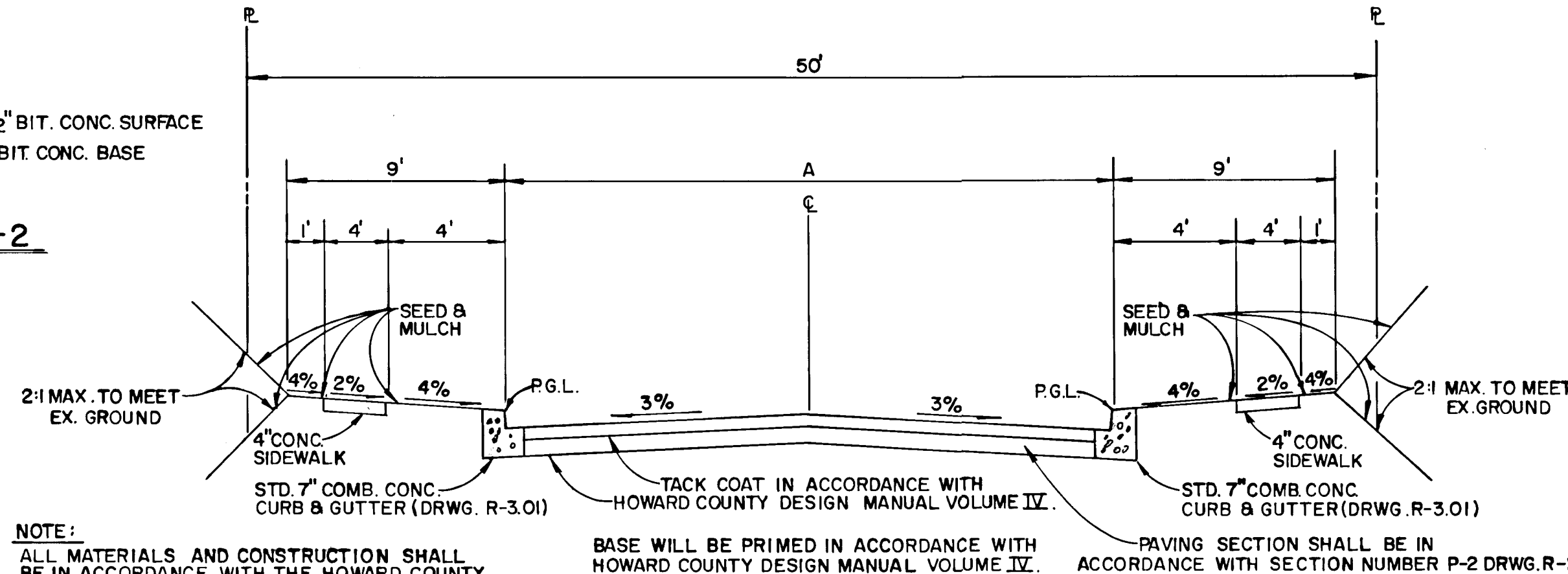
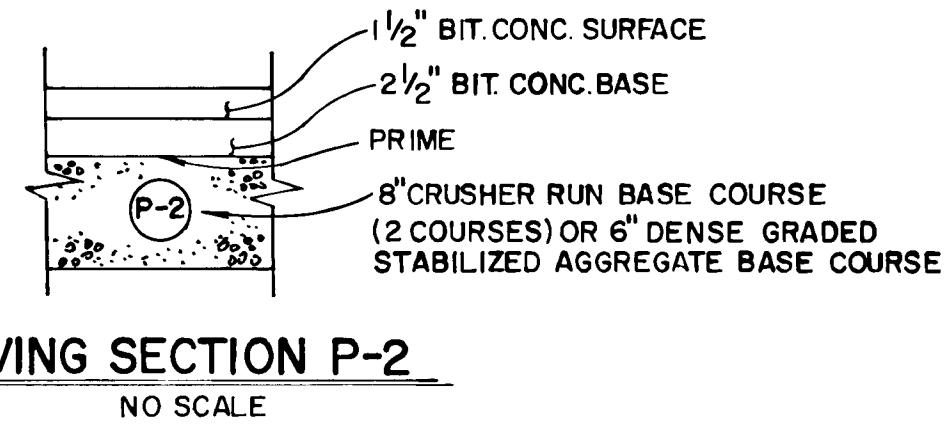
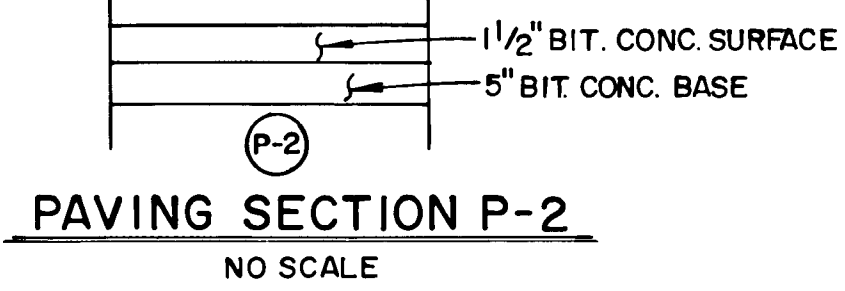
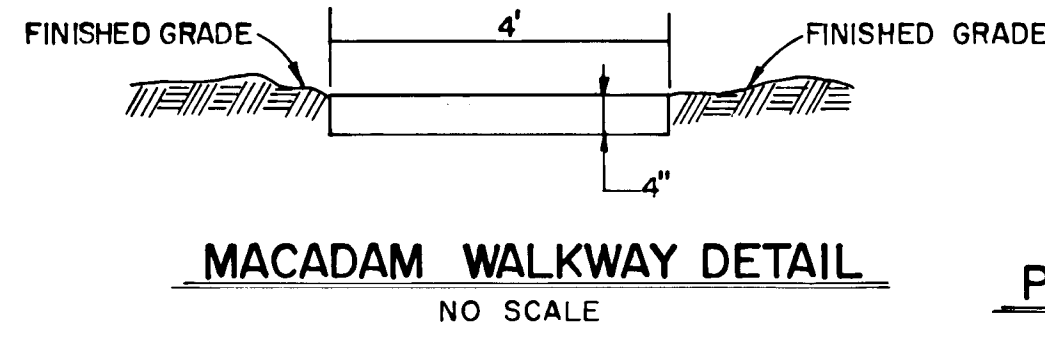
PROFILE
SCALE: 1" = 50' HOR. 1" = 5' VERT.

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

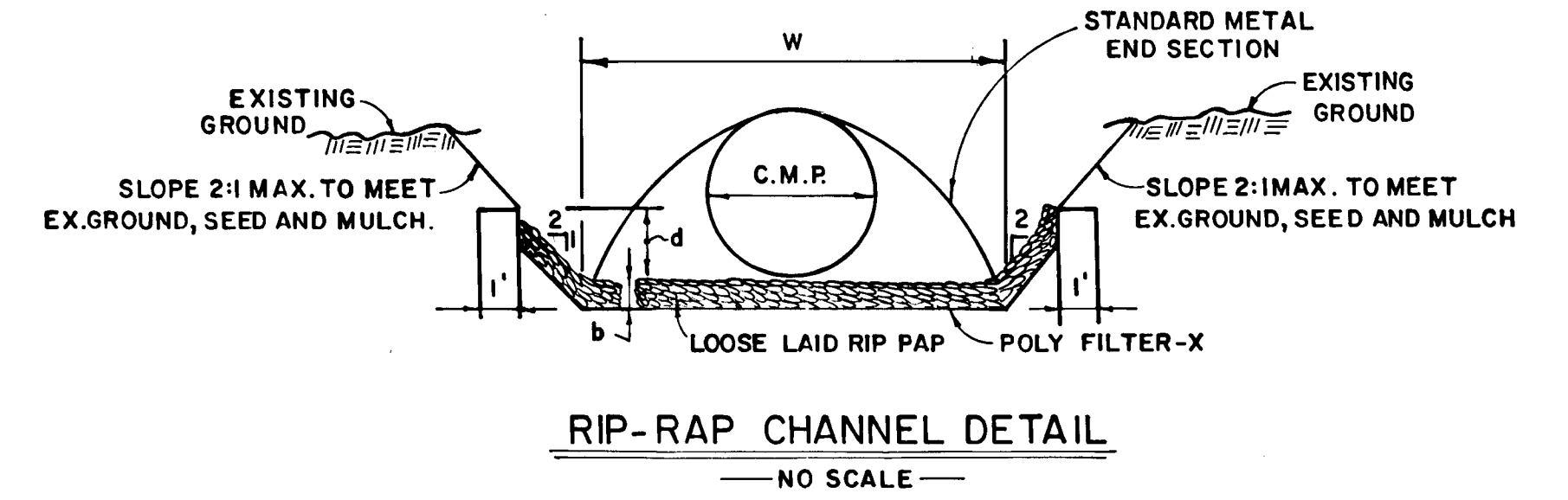
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DATE
BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK NO.

DATE
BY
GRADES CHECKED
STRUCTURE NOTATIONS CHECKED
NOTE BOOK NO.

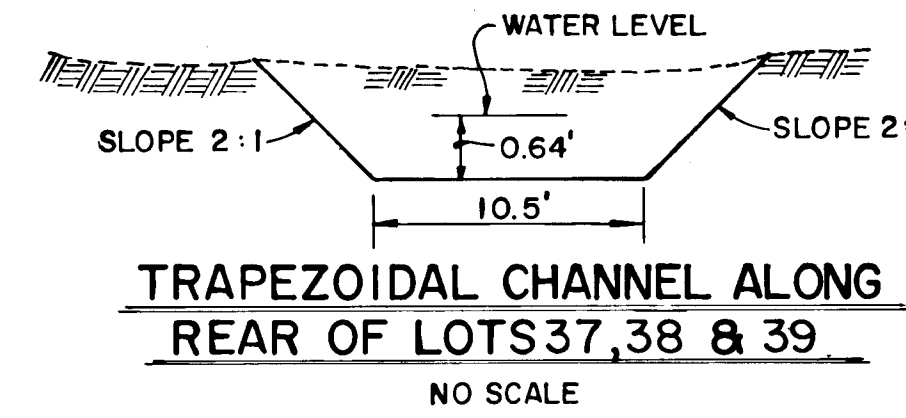


NOTE:
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL-VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
BASE WILL BE PRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.
PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2 DRWG. R-2.01



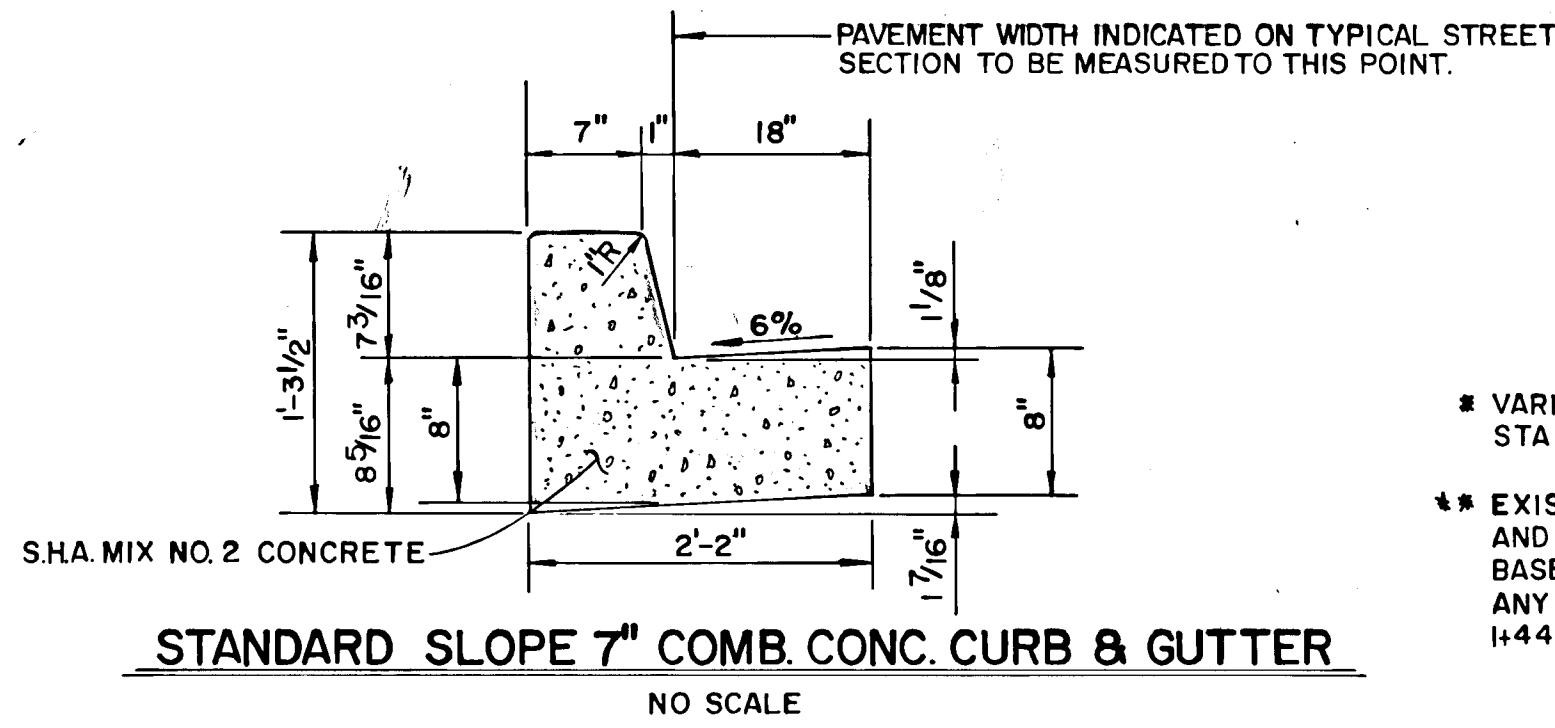
RIP RAP CHANNEL DESIGN DATA

| Struct | A ¹ | P ¹ | R | R 2/3 | S | S 1/2 | n | Q | V | d | w | Rip Rap Size | b |
|--------|----------------|----------------|--------|--------|-------|--------|-----|------------|-----------|-------|-------|--------------|-----|
| S-1 | 7.02 | 13.18 | 0.5325 | 0.6556 | 0.50% | 0.0707 | .04 | 12.07 cfs. | 1.72 fps. | 0.60' | 10.5' | 6" 9" 14" | 14" |
| S-2 | 20.31 | 16.93 | 1.1992 | 1.1294 | 0.50% | 0.0707 | .04 | 60.32 cfs. | 2.97 fps. | 1.55' | 10.0' | 6" 9" 14" | 14" |
| S-3 | 7.02 | 13.18 | 0.5325 | 0.6556 | 5.00% | 0.2236 | .04 | 38.26 cfs. | 5.45 fps. | 0.60' | 10.5' | 6" 9" 14" | 14" |



NOTE: THE TRAPEZOIDAL CHANNEL SHALL BE STABILIZED WITH K-31 TALL FESCUE ALONG WITH CURLEX EROSION NETTING OR EQUAL

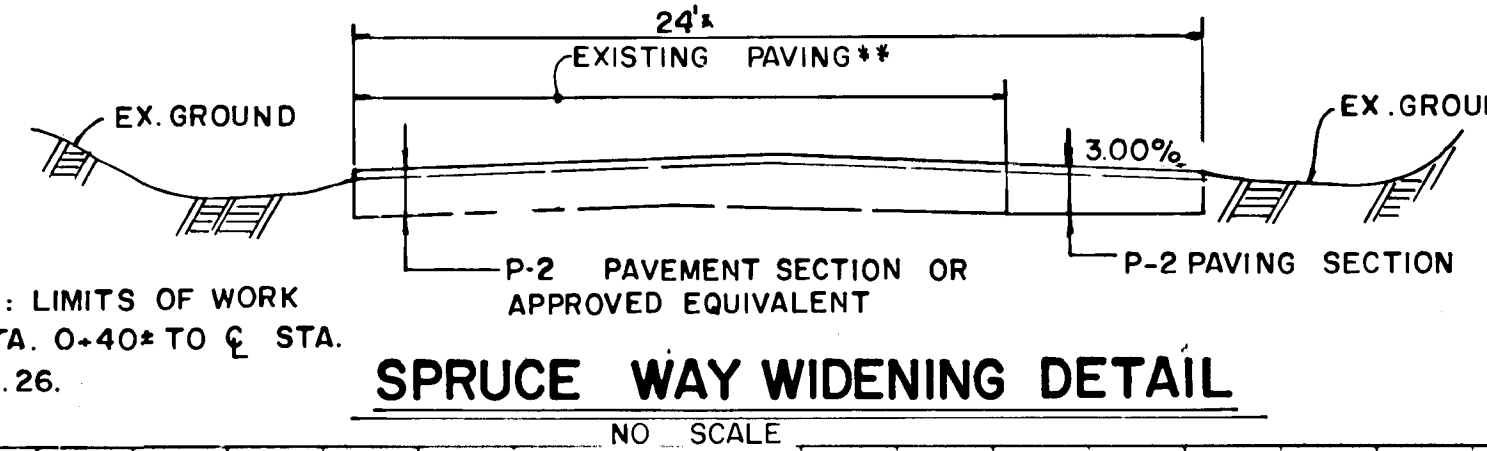
APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF LAND DEVELOPMENT DIVISION
DATE
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HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS
DATE
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DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING
DATE
APPROVED
OFFICE OF PLANNING AND ZONING
DATE



| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | A | Q STATION LIMITS |
|------------------|----------------|--------------|--------|-----|--------------------|
| SPRUCE WAY | LOCAL | 30 MPH | R - 20 | 30' | 1+44.26 TO 5+56.00 |
| MAPLE GLEN COURT | CULDESAC | 30 MPH | R - 20 | 28' | 0+00 TO 8+38.95 |

* VARIES IN TRANSITION BETWEEN STA. 1+10 AND STA. 1+44.10.
** EXISTING PAVING SHALL BE CORED AND ANALYZED FOR SUITABILITY AS BASE COURSE PRIOR TO BEGINNING ANY WORK BETWEEN 0+00 AND 1+44.26 SPRUCE WAY.

NOTE: LIMITS OF WORK
Q STA. 0+40* TO Q STA. 1+44.26.

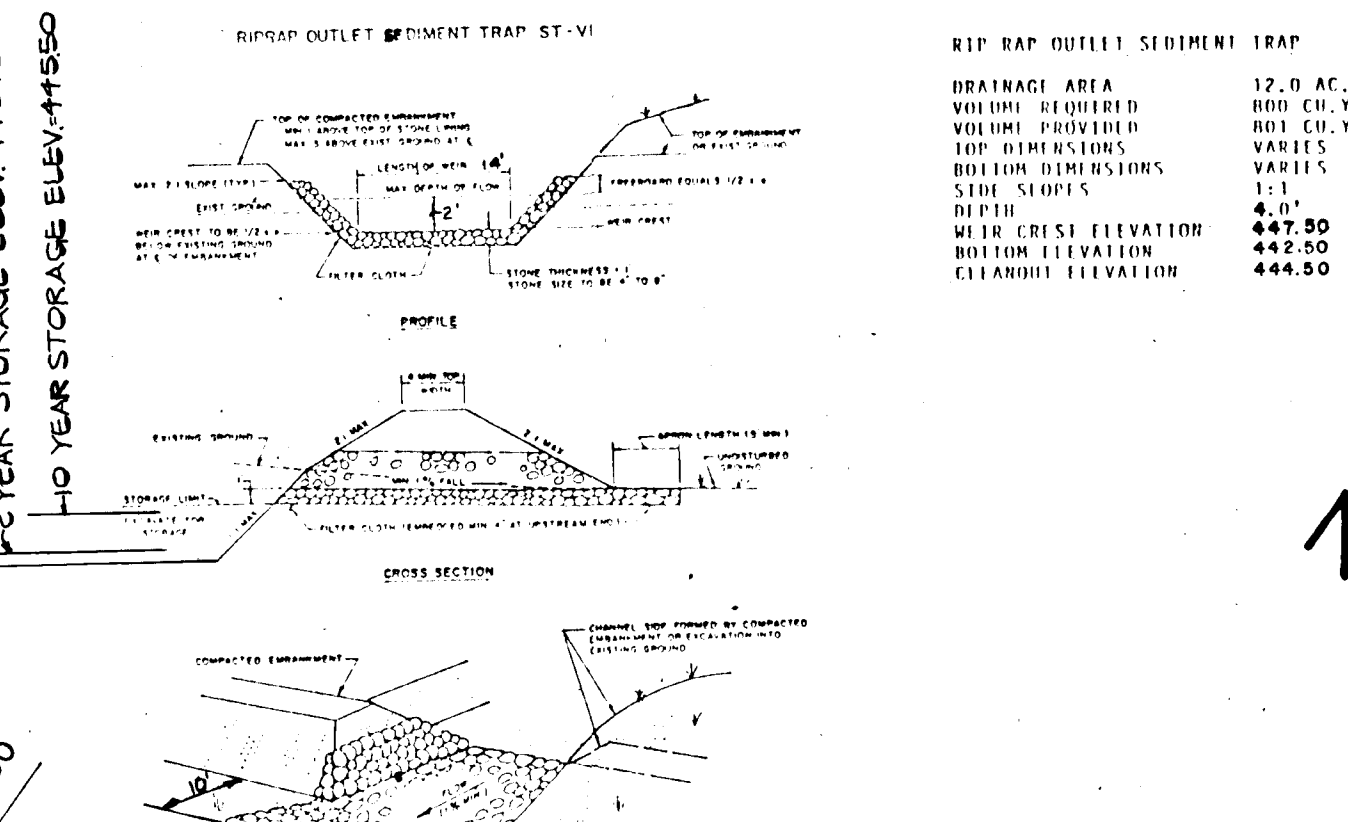
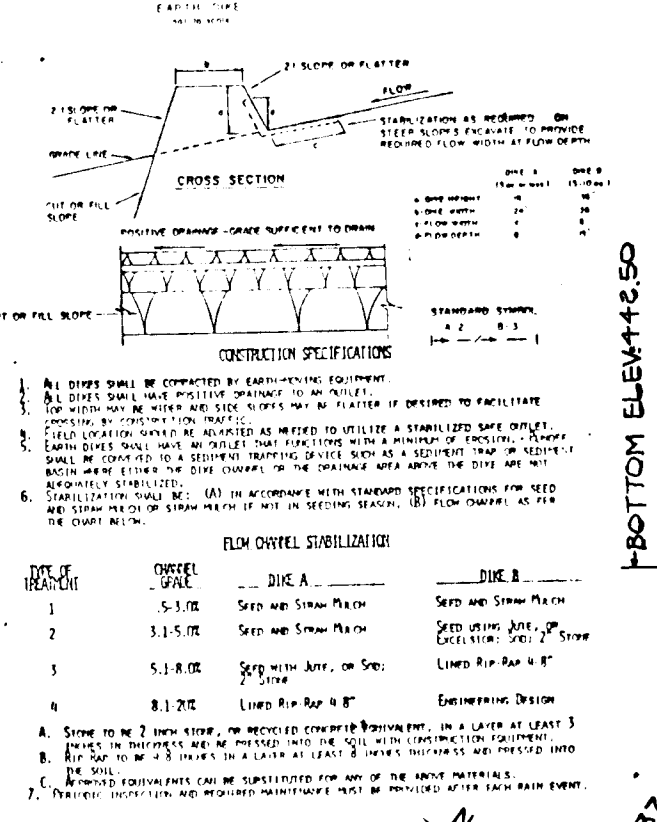
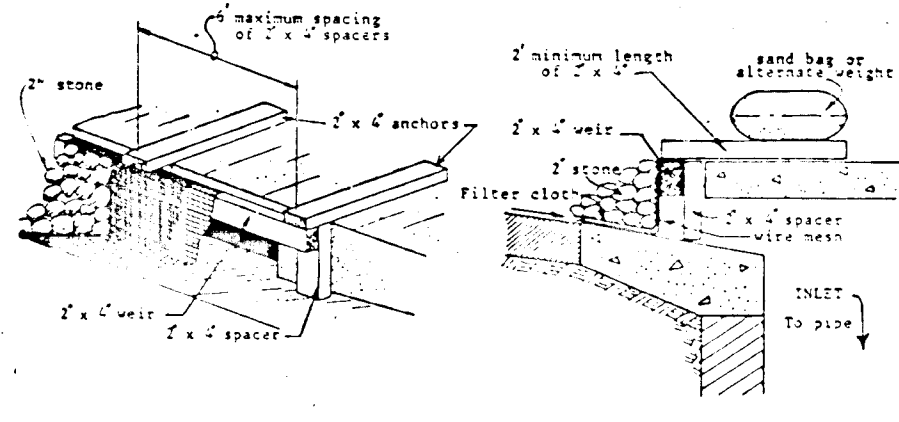


STATE OF MARYLAND
CHARLES J. CROVO SR.
PROFESSIONAL ENGINEER
7/8/87
DATE

MAPLEWOOD
SECTION 4
LOTS 20-41
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.
ROAD SECTIONS AND DETAILS
OWNER AND DEVELOPER
MULLICAN PROPERTY PARTNERSHIP C/O
HOWARD COUNTY LAND SERVICES, INC.
8307 MAN STREET
ELLCOTT CITY, MARYLAND 21043
SCALES SHOWN DATE: JUNE 30, 1987 DWG. NO. 3 OF 5
DES. C. J. CROVO DRN. S. BOOTH CHK. C. J. CROVO
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

2. Curb Inlet Protection.

1. Attach a minimum plane of wire mesh (30" x 18" with by length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 sigma) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
3. Securely nail the 2" x 4" weir to 9" long wooden spacers to be located between the weir and inlet face (max. 6" apart).
4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by spacers or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1" beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assume that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



SEDIMENT CONTROL NOTES:

1. A minimum of 24 hours notice must be given to the HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INSTALLATION OF SEDIMENT CONTROL STRUCTURES, DAIKES, PERMITTED SLOPES AND ALL SLOPES GREATER THAN 3:1, BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS OF THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/STABILIZATION MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE. IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:

| | |
|------------------------------------|--------------|
| TOTAL AREA OF SITE | 12.46 ACRES |
| AREA DISTURBED | 6.7 ACRES |
| AREA TO BE ROOFED OR PAVED | 1.50 ACRES |
| AREA TO BE VEGETATIVELY STABILIZED | 4.26 ACRES |
| TOTAL CUT | 3.9 CU. YDS. |
| TOTAL FILL | 0.0 CU. YDS. |
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. THE INSPECTION AGENCIES SHALL HOLD POSTED UPON COMPLETION OF INSTALLATION OF PERMITTED EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER HOLDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

TEMPORARY SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS UP TO 100' TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT SEEDING METHOD IS NOT AVAILABLE.

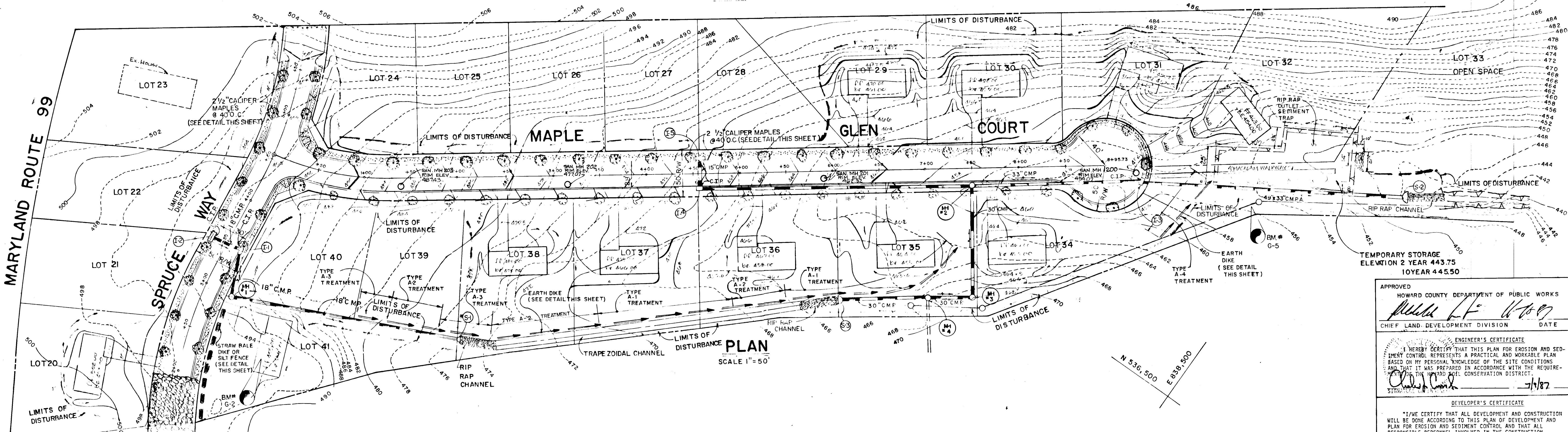
SEEDING PREPARATION: CLOSED UNDER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER MEANS TO A DEPTH OF 2" TO 3" AND TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

SEEDING: APPLY 1.0 TON PER ACRE OF SEED (SEE DETAIL THIS SHEET) TO ALL DISTURBED AREAS. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE DATE OF DISTURBANCE. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE DATE OF DISTURBANCE. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE DATE OF DISTURBANCE.

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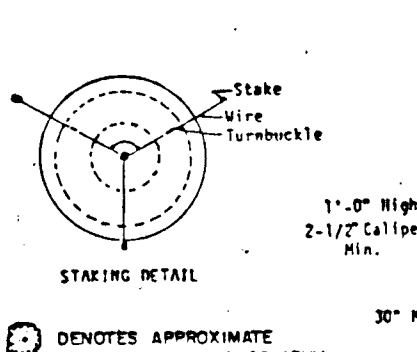
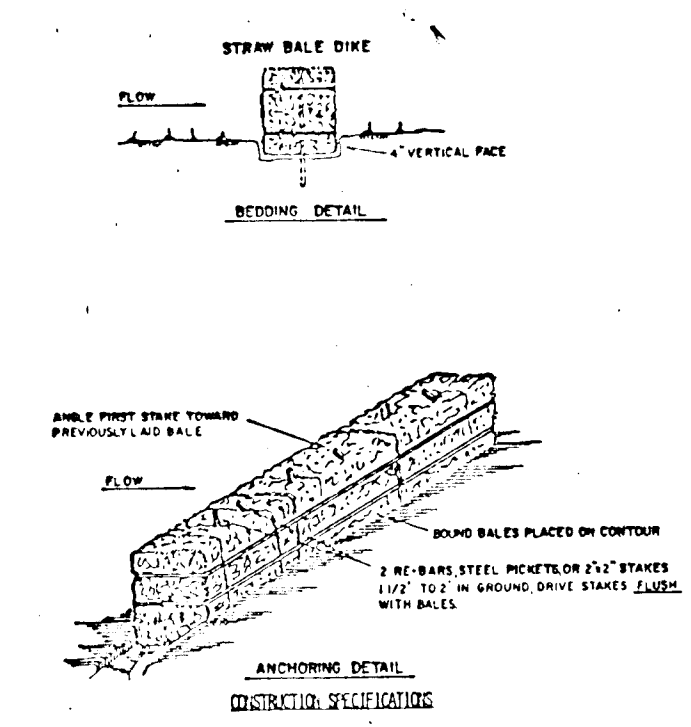


SCALE 1" = 50'

NOTE: BUILDING CONSTRUCTION IS NOT ALLOWED WITH THIS PLAN

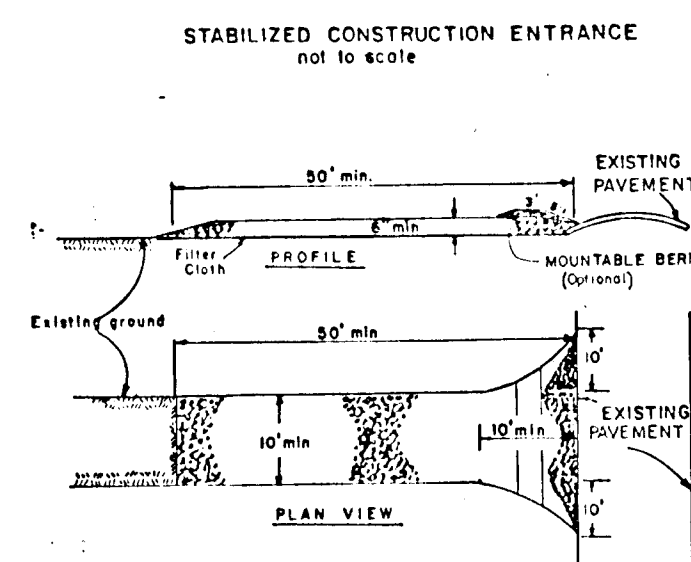
CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND STRAW BALE DIKES/SILT FENCE AS SHOWN ON PLAN.
3. INSTALL EARTH DIKES AND CONSTRUCT SEDIMENT TRAP AS SHOWN. STABILIZE WITH TEMPORARY SEEDING.
4. CONSTRUCT STORM DRAIN SYSTEM AND TRAPEZOIDAL CHANNEL. INSTALL INLET PROTECTION DEVICES AT ALL INLETS.
5. STABILIZE CHANNEL WITH PERMANENT SEEDING.
6. THE CONTRACTOR SHALL PLACE STRAW BALE DIKES OR SILT FENCE DOWNGRADE OF ANY DISTURBED AREA DURING CONSTRUCTION OF THE STORM DRAIN SYSTEM.
7. GRADE ROADS TO SUBGRADE.
8. CONSTRUCT CURB AND GUTTER AND INSTALL DRAIN COURSE.
9. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
10. THE SEDIMENT TRAP SHALL BE DETERMINED BY PUMPING. THE SEDIMENT FROM THE TRAP SHALL BE PLACED UP-GRADE FROM THE SEDIMENT TRAP. THE CONTRACTOR SHALL PUMP SEDIMENT DOWNGRADE FROM THE SEDIMENT TRAP.
11. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
12. REMOVE INLET PROTECTION DEVICES AND PLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT. INSTALL RIP RAP APPROX. 2' ABOVE STONE CONSTRUCTION ENTRANCE AND STRAW BALE DIKE/SILT FENCE. CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
13. REMOVE STONE CONSTRUCTION ENTRANCE AND STRAW BALE DIKE/SILT FENCE. CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
14. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED WITH PERMANENT SEEDING MIXTURE.



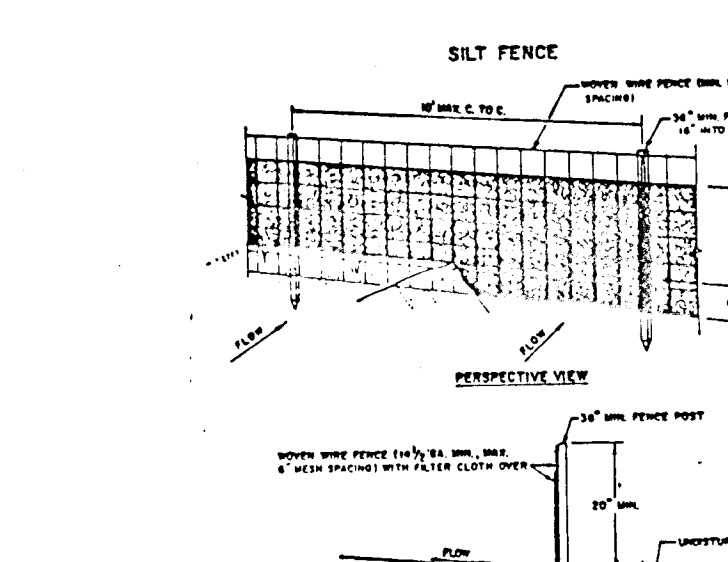
NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.

1. Bales shall be placed on the top of a slope or on the exterior and in a row with each bale touching the adjacent bales.
2. Each bale shall be oriented in the soil a minimum of (8) inches, and placed so the anchoring end is toward the slope.
3. Bales shall be secured in place by either two (2) stakes or by means of a turabuckler. Two (2) stakes shall be placed in the soil, one on each side of the bale. Stakes shall be driven flush with the bale.
4. Inlets shall be protected and repair replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.



CONSTRUCTION SPECIFICATIONS:

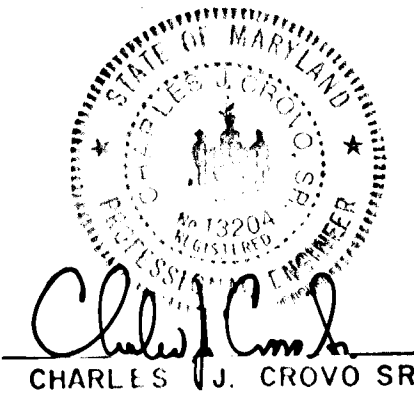
1. Stone Size - 3" to 4" stone, or crushed or recycled concrete equivalent.
2. Length - As required, but not less than 30 feet (except on a single easement lot where a 30 foot minimum length would apply).
3. Thickness - Not less than 18" (18" thick).
4. Width - The (18) foot minimum, but not less than the full width at points where bays or aprons occur.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone.
6. Filter cloth will be installed on a slope facing towards construction.
7. Maintenance - The entrance will be maintained in a condition which will prevent periodic top dressing with additional stone. This may include periodic top dressing with additional stone. This may include periodic top dressing with additional stone. This may include periodic top dressing with additional stone.
8. Weeding - Weeds shall be cleared to remove sediments prior to entrance into public right-of-way. Weeding is required, it shall be done on an area public right-of-way. Weeding is required, it shall be done on an area public right-of-way.
9. Periodic inspection and needed maintenance shall be provided after each rain.



CONSTRUCTION NOTES FOR APPROVED SILT FENCE:

1. Where the fence is to be installed on a slope, the fence shall be installed on a slope facing towards construction.
2. Filter cloth will be placed over the entire area prior to placing of stone.
3. Filter cloth will be installed on a slope facing towards construction.
4. Maintenance - The entrance will be maintained in a condition which will prevent periodic top dressing with additional stone. This may include periodic top dressing with additional stone. This may include periodic top dressing with additional stone.
5. Weeding - Weeds shall be cleared to remove sediments prior to entrance into public right-of-way. Weeding is required, it shall be done on an area public right-of-way. Weeding is required, it shall be done on an area public right-of-way.
6. Periodic inspection and needed maintenance shall be provided after each rain.

FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE (301) 461-2855

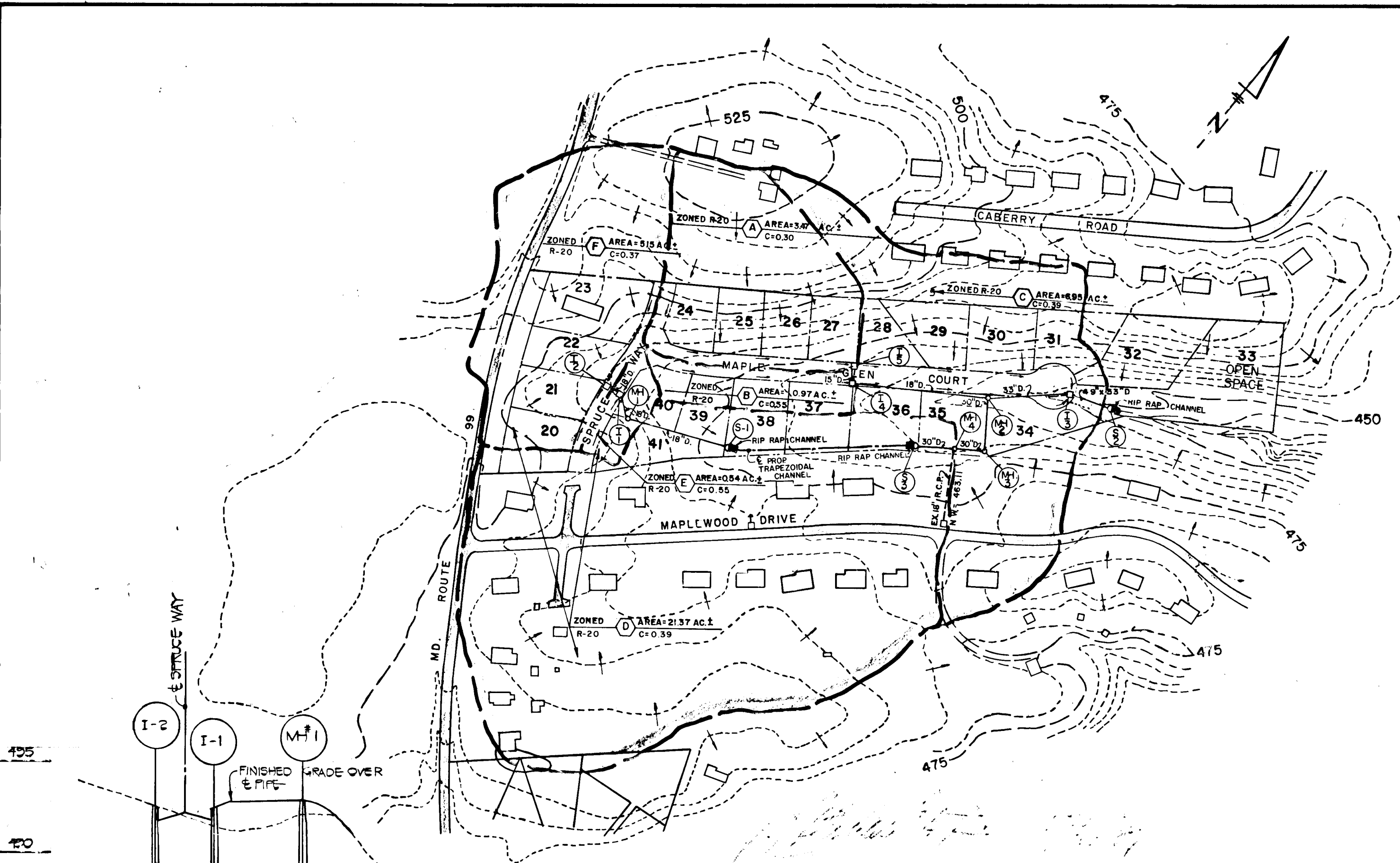


AS-BUILT SURVEY CERTIFIED BY
 CHARLES J. CROVO, MD. PE. No.
 13204 ON 6/5/89

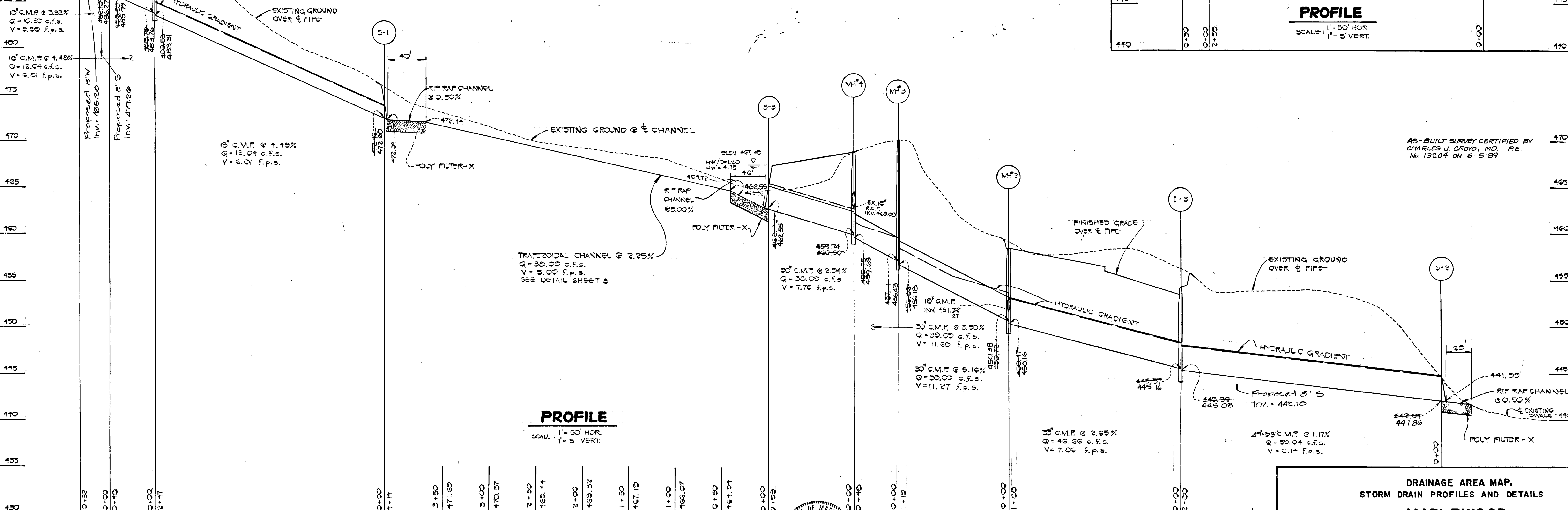
OWNER AND DEVELOPER
 MULLICAN PROPERTY PARTNERSHIP C/O
 HOWARD COUNTY LAND SERVICES, INC.
 2ND ELECTION DISTRICT
 ELLICOTT CITY, MARY. AND 21043

STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN

MAPLEWOOD
 SECTION 4
 LOTS 20-41
 2ND. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN SHEET 4 OF 5 JUNE 30, 1987



DRAINAGE AREA MAP
SCALE: 1" = 200'



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

STRUCTURE SCHEDULE

MAPLEWOOD, SECTION 4

| STRUCTURE | TYPE | INVERT IN | INVERT OUT | TOP ELEV. | ROAD STATION | REMARKS |
|-----------|----------------------------------|------------------|------------------|------------------|---------------------------------------|--------------------------|
| I-1 | A-5 | 486.27 486.18 | 486.99 485.95 | 492.40 492.37 | ST. 3+46.00 SPRUCE WAY | S.D. 4.01 |
| I-2 | A-10 DIPRESSED | - | 487.16 487.25 | 492.40 492.37 | ST. 3+46.00 SPRUCE WAY | S.D. 4.02 |
| I-3 | A-10 | 445.57 445.10 | 445.37 445.08 | 454.30 454.03 | L.P. STA. 1+45.00 MAPLE GLEN COURT | S.D. 4.02 |
| I-4 | A-5 W/ DEFLECTORS | 465.16 464.76 | 464.91 464.68 | 470.26 470.16 | ST. 4+61.35 MAPLE GLEN COURT | S.D. 4.01 & S.D. 4.83 |
| I-5 | A-10 W/ DEFLECTORS | 466.50 466.26 | 470.26 469.87 | 470.26 469.87 | ST. 4+61.35 MAPLE GLEN COURT | S.D. 4.02 & S.D. 4.83 |
| MH-1 | STANDARD MANHOLE | 483.78 483.76 | 483.55 483.31 | 493.01 493.01 | - | G5 01 |
| MH-2 | STANDARD MANHOLE | 451.72 451.27 | 460.47 450.16 | 458.45 458.15 | ST. 7+51.87 MAPLE GLEN COURT | G5.02 |
| MH-3 | STANDARD MANHOLE | 457.11 456.43 | 466.86 456.18 | 470.00 468.58 | - | G5.02 |
| MH-4 | STANDARD MANHOLE | 460.00 462.72 | 458.75 457.63 | 468.90 467.27 | - | G5.02 |
| S-1 | STANDARD METAL END SECTION | 472.46 472.60 | 472.34 472.34 | 473.96 474.19 | - | S.D. 5.61 |
| S-2 | STANDARD METAL END SECTION | 442.04 441.86 | 441.99 441.99 | 444.79 444.61 | - | S.D. 5.61 |
| S-3 | STANDARD METAL END SECTION | 462.86 462.55 | 462.73 462.55 | 465.23 465.05 | - | S.D. 5.61 |

APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Granville W. Weiland 11/12/87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Michelle H. 11-13-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
John M. Woodman 11-28-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Michelle H. 11-28-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

SEAL OF PUBLIC ENGINEER
Charles J. Crovo
CHARLES J. CROVO SR. DATE 1/1/87

OWNER AND DEVELOPER
MULLIGAN PROPERTY PARTNERSHIP C/O
HOWARD COUNTY LAND SERVICES, INC.
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

DRAINAGE AREA MAP,
STORM DRAIN PROFILES AND DETAILS
MAPLEWOOD
SECTION 4
LOTS 20-41
2ND. ELECTON DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 5 OF 5 JUNE 30, 1987