

COMMISSIONERS JAMES G. BARRETT. MESIDENT K. BENNETT BOZMAN, vice mesident REGINALD T. HANCOCK CARLTON E. MASSEY W. KENNETH TYLER



Morcester County Roads

OFFICE OF

E. VICTOR SMULLEN COUNTY ROADS ENGINEER

TEL. 632-2244

September 11, 1990

21863

MAINTENANCE STANDARDS FOR O.P. ROADS

- Dirt roads to be scraped four (4) times yearly (minimum) and add borrow material as needed.
- 2. Surface treated roads to be patched as necessary with resurfacing approximately every five (5) years.
- 3. Cut vegetation one (1) time"at end of growing season.
- 4. Snow removal as required.

RESOLUTION AMENDING CONSTRUCTION AND MAINTENANCE STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER, INLETS AND UTILITIES FOR COUNTY ROADS

WHEREAS, Section 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repairs of "County Roads" and "Other Public Roads" within the County; and

WHEREAS, the County Commissioners adopted a resolution on November 5, 1991 adopting construction and maintenance standards for County Roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to revise and update such standards and specifications for installation of curb, gutter, inlets and utilities for County Roads;

NOW, THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County, Maryland that Section (4) (c) of Roadway Construction and Maintenance Standard WO-101.10 be revised to read as follows:

4. Standards and specifications for curb, gutter, inlets and utilities

c. All utility locations shall require prior approval of the County Roads Engineer. Complete plans and specifications shall be submitted prior to approval.

Utility lines and other structures such as manholes and valve boxes shall be located outside the paved section except in the following cases where approved by the County Roads Engineer:

- 1. Utility line crossovers of all types may be permitted in the paved section.
- 2. Sewer and water lines and other structures shall be permitted in cul-de-sacs and curvilinear sections.
- 3. Where location of sewer and water lines and other structures outside the paved section is impractical or creates undue hardship or unwarranted expense.
- 4. Where location of sewer and water lines and other structures outside the paved section will result in undue destruction of desirable vegetation.

In reviewing applications for approval, the County Roads Engineer shall consider:

- 1. Maintenance costs
- 2. Snow removal
- 3. Installation costs
- 4. Preservation of natural beauty and trees

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED this 14th day of November, 1995.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER GOUNTY COMMISSIONERS

Bassett, Jr., President Flovd F

Q John E. Bloxom

u

George M Hurley Jeanne Lynch

Raymond A. Warren





ec: M. Lackgay AUG 2 0 1998 WORCESTER COUNTY DEPT. OF PUBLIC WORKS

RESOLUTION 98 - 35

RESOLUTION AMENDING THE CONSTRUCTION AND MAINTENANCE STANDARDS FOR COUNTY ROADS TO ADD PROVISIONS FOR A RURAL STREET - DIVIDED ROAD SECTION FOR PUBLIC EASEMENT ROADS

WHEREAS, Section PW 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repair of county roads and other public roads within Worcester County, Maryland; and

WHEREAS, the Worcester County Commissioners adopted a resolution on November 5, 1991 adopting Construction and Maintenance Standards for County Roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to add a section to such standards to provide for a rural, divided road section for "Public Easement Roads" to permit the construction of such roads in Worcester County;

NOW THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County that the attached road construction standard entitled "Rural Street - Divided" is hereby adopted and permitted for all Public Easement Roads within Worcester County, Maryland.

PASSED AND ADOPTED this $18^{\frac{1}{2}}$ day of August, 1998 to be effective

nunc pro tunc the 4th day of August, 1998.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER COUNTY COMMISSIONERS
South Tim
Granville D. Trimper, President
A A A A
James G. Bastett, Vice President
Just aust
Robert L. Cowger, Jr.
Jeanne Sunch
Jeanne Lynch
James L. Purnell, Jr.



RESOLUTION NO. 00 - \underline{3}

RESOLUTION ADOPTING CONSTRUCTION STANDARDS FOR MINOR ROADS IN WORCESTER COUNTY, MARYLAND

WHEREAS, Section PW 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repair of "County Roads" and "Other Public Roads" within Worcester County; and

WHEREAS, the County Commissioners adopted a resolution on November 5, 1991 adopting construction and maintenance standards for county roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to amend said standards by the addition of a cross section for "minor roads" in major subdivisions.

NOW, THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County, Maryland that the attached cross section for minor roads as shown on Standard No. WO -100.01A is hereby adopted.

AND, BE IT FURTHER RESOLVED that this Resolution shall take effect upon its passage.

PASSED AND ADOPTED this 1st day of <u>February</u>, 2000.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER COUNTY COMMISSIONERS

Jeanne Lynch, President Bloxom. Vice President Gulvas James L. Purnell, Jr.

Virgil L. Shockley

TEL 632 - 1194



COMMISSIONERS REGINALD T HANCOCK, PRESIDENT GEORGE M HURLEY, VICE PRESIDENT FLOYD F. BASSETT, JR. JOHN E. BLOXOM JEANNE LYNCH



OFFICE OF THE COUNTY COMMISSIONERS

Worcester County

ROOM 112 COURT HOUSE SNOW HILL, MARYLAND 21863

November 7, 1991

JOHN A. YANKUS CHIEF ADMINISTRATIVE OFFICER EDWARD H HAMMOND, JR COUNTY ATTORNEY

W. Kelly Shannahan, Planner TO: ✓E. Victor Smullen, Roads Engineer John A. Yankus, Chief Administrative Officer FROM: SUBJECT: Road Construction and Design Standards .

At their meeting on November 5, 1991 the County Commissioners approved the new Road Construction and Design Standards. Enclosed is a copy of the Resolution which officially adopts these standards.



dd enc. CC125

RESOLUTION ADOPTING CONSTRUCTION AND MAINTENANCE STANDARDS FOR COUNTY ROADS

WHEREAS, Section 1-206 of the Public Works Article of the Public Local Laws of Worcester County provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repairs of "County Roads" and "Other Public Roads" within the County; and

WHEREAS, the County Commissioners adopted a resolution on June 21, 1988 adopting construction and maintenance standards for county roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to revise and update such standards;

NOW THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County that the following road construction standards be adopted.

- 1. GENERAL CONSTRUCTION STANDARDS: Those general construction standards set forth in addendum attached hereto labeled Standard No. W0-101.10 are hereby adopted.
- CROSS SECTIONS: Those cross sections for urban streets, rural streets, and minor subdivision roads as shown on Standard Nos. W0-100.10, W0-100.11, and W0-100.01 attached hereto are hereby adopted.
- 3. COST ESTIMATES FOR ROAD CONSTRUCTION: Those cost estimates for road construction for urban streets and rural streets as shown on Standard No. W0-101.11 attached hereto are hereby adopted.
- 4. TRANSITIONS BETWEEN ROADS CONSTRUCTED TO DIFFERENT STANDARDS: Physical transitions between roads constructed to different standards shall be approved by the County Roads Department prior to commencement of construction.

AND BE IT FURTHER RESOLVED by the County Commissioners of Worcester County that the resolution of June 21, 1988 establishing road standards is hereby repealed as of April 1, 1992 as to plans approval and as of November 30, 1992 as to construction standards, it being the intent hereof that roads being planned and designed as of date of this resolution may continue to be planned and designed in accordance with the standards set forth in the resolution of June 21, 1988, provided approval of the Worcester County Roads Department is given prior to April 1, 1992 for each such road and that each such road is fully completed no later than November 30, 1992. Nothing herein, however, shall preclude the construction of a road in accordance with the standards set forth herein as of the date hereof.



BE IT FURTHER RESOLVED that this Resolution shall take effect upon its passage.

PASSED AND ADOPTED this 5th day of November, 1991.

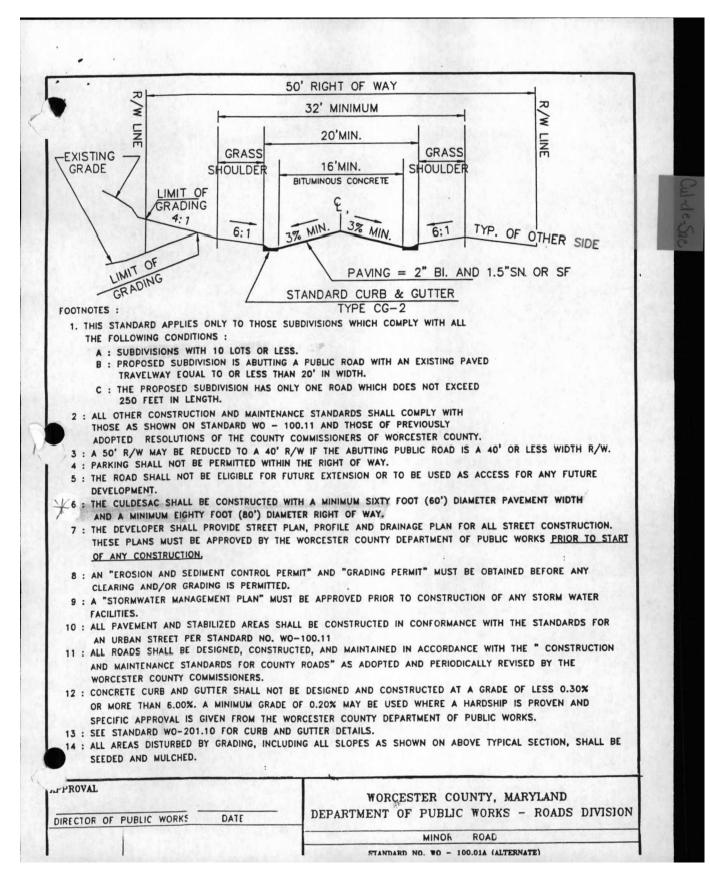
ATTEST:

John 4. Yankus Chief Administrative Officer

Hancock, President Regisald Т. a George Hurley ľc Floyd F. Bassett 5 Bloxom John E. Jeanne Lynch

WORCESTER COUNTY COMMISSIONERS

40' Right-ot	-Way	
22' Stabiliz 22' Stabiliz 2' 18' Surface T SHOULDER PROPER GRADE LINE 2:1 SLOPE 3.0PE AU		
CONDITIONS OF USE: The minor subdivision road section shall only be use Worcester County Planning Commission where it find met:	ed where specifically approved by the ds that the following conditions have been	
 met: The road shall serve no more than five (5) lots in a minor subdivision only. This road section shall not be permitted in any major subdivision in Worcester County. The road shall not be eligible for future extension or to be used as access for any future development in excess of five (5) minor subdivision lots. No parking shall be permitted within the right-of-way. No public water or sewer utility lines shall be permitted within the right-of-way. Any minor subdivision road which extends greater than three hundred feet (300') in length shall be provided with a cul-de-sac with a minimum sixty foot (60') diameter of surface treatment within a minimum eighty foot (80') diameter right-of-way, unless an alternative means of turnaround approved by the County Roads Engineer is provided. 		
broval	Worcester County, Maryland County Roads Department	
County Roads Engineer Date Revised:	Minor Subdivision Road	
	Standard No. WO - 100.01	



11. 18 18 18 BesTemps **Career Associates** Permanent Employment Division SCH & SATURAL Temporary Employment ١, Division) ì Culs-de-Sac

50' Row 100' - 80' SurFace 40' ROW 80 60" 11



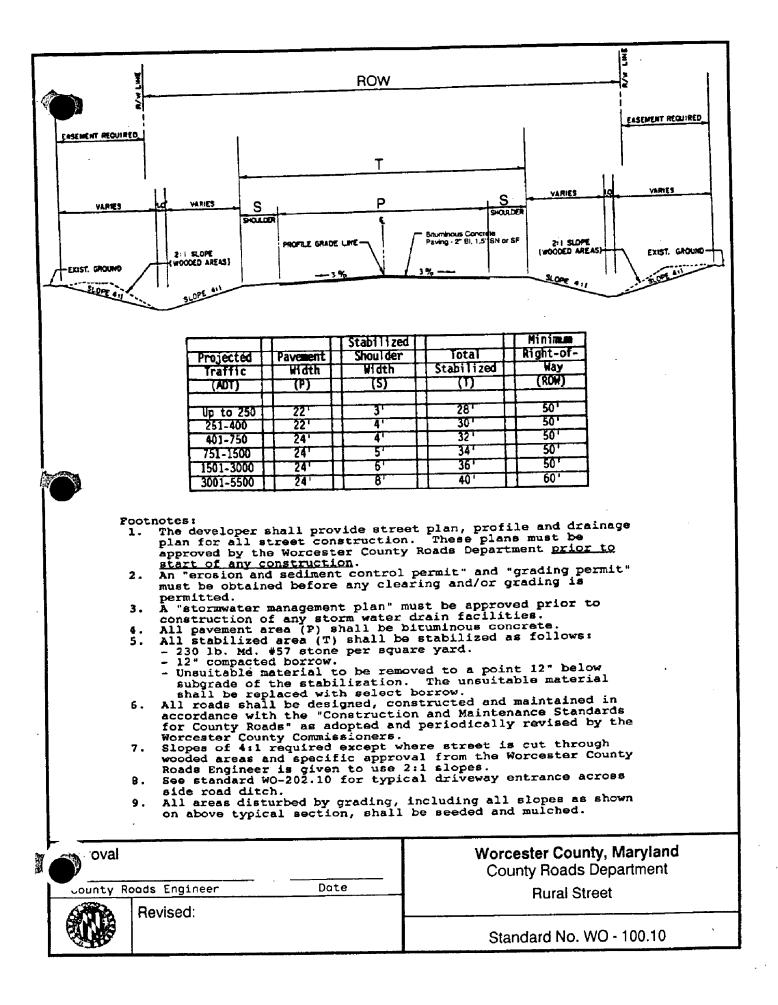
Salisbury 410-546-0252

Seaford, DE 302-629-4357

Cambridge, MD 410-221-9675

Dover, DE 302-674-4357

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1. STANDARDS AND SPECIFICATIONS FOR GRADING AND BASE COURSES

- a. The right-of-way width shall be a minimum of fifty (50) feet.
- b. All lines and grades shall be approved by the County Roads Engineer before grading operations are begun.
- c. The road bed shall be graded for its full width (right-ofway line to right-of-way line), by removing all topsoil, stumps, root mat, unsuitable material, etc.
- d. Base may be prepared by using local Bank Run Gravel. Material shall meet Maryland State Highway Administration analysis test for A-3 or better materials. 230 lbs. of Md. No. 57 stone per square yard shall be added and worked into the top 6" of base with pulvi-mixer. As an alternate to this specification, 400 lbs. of Cr-6 Crusher Run material per square yard may be added to base and brought to the proper grade and cross-section and thoroughly compacted. Water shall be added by sprinkling in sufficient quantity to attain proper compaction and moisture control.
- e. Compaction of fill areas and base shall be by Sheeps Foot Roller, Self-Propelled Rubber Tired Roller or Vibratory Roller to achieve a minimum of 95% compaction.

2. STANDARDS AND SPECIFICATIONS FOR SURFACE COURSES

- a. All bituminous concrete shall be Type BI Base Intermediate, Type SN Surface Normal or Type SF Surface Fine complying with Maryland State Highway Administration Specifications. (2" BI and 1.5" SN or SF).
- b. No work on surface courses shall be permitted between November 15th and March 1st unless a developer or contractor agrees to accept full responsibility of the work, in writing, for a period of eighteen (18) months following completion of construction. Any damages occurring shall be the full responsibility of the contractor and/or developer.
- 3. DRAINAGE, SEDIMENT CONTROL, SEEDING AND MULCHING
 - a. All drainage structures shall be shown on road plan and profile as to size and location. Storm drainage, open or closed shall indicated invert elevations. Prior to stabilization all drainage structures shall be installed. Pipe to be ACCM or RCP meeting Maryland State Highway specifications.
 - b. Drainage facilities shall be provided on development site along with offsite facilities and extensions as may be required for effective drainage.
 - c. All drainage facilities are to be located in road rightof-way where possible and where not possible, provisions for drainage easements or right-of-way shall be obtained.

Approval	
County Roads Engineer Date	Worcester County, Maryland County Roads Department Roadway Construction and Maintenance Standards
Revised:	
	Standard No. WO - 101.10 (Page 1 of 3)

- d. Brosion must be controlled during construction. Facilities to control erosion must be cleaned of deposited material and removed at completion of construction.
- e. All slopes and unstabilized areas shall be properly fertilized, seeded and mulched as per requirements of Worcester County Sediment Control.
- f. Whatever measures needed to insure that a public nuisance is not created as a result of construction operations is required. (Dust, blocking of drainage, traffic, etc.)

4. <u>STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER, INLETS AND UTILITIES</u>

- a. Curb and gutter shall be concrete. Construction methods, materials and other specifications will conform to Maryland State Highway Administration.
- b. Inlets shall generally conform to Maryland State Highway specifications.
- c. All utility locations shall be approved by County Roads Engineer. Utility company shall submit plans for permit. All utilities located in roads right-of-way must be approved by the Worcester County Commissioners.

5. <u>ENTRANCES - RESIDENTIAL, COMMERCIAL, STATE HIGHWAYS</u>

- a. Residential entrances shall be constructed using or maintaining either a swale or drainage pipe. All entrances located along an open section type roadway will require pipes in the ditch line. (20.0' x 12" minimum size and length.) Swales are acceptable only within fifty (50) feet of a crest and upon approval of County Roads Engineer. Paved entrances shall conform to standards of Maryland State Highway Administration.
- b. Commercial entrance channelization shall conform to the policy and standards of the Maryland State Highway Administration. Application and plans will be submitted to Worcester County Roads for a commercial entrance permit. A five thousand dollar (\$5,000.00) performance bond to cover cost of construction will be required. All utility adjustments shall be the responsibility of the permittee.
- C. Subdivisions making connections with State Highways must comply with Maryland State Highway Administration Rules and Regulations.

6. ROAD SIGNS AND MARKING

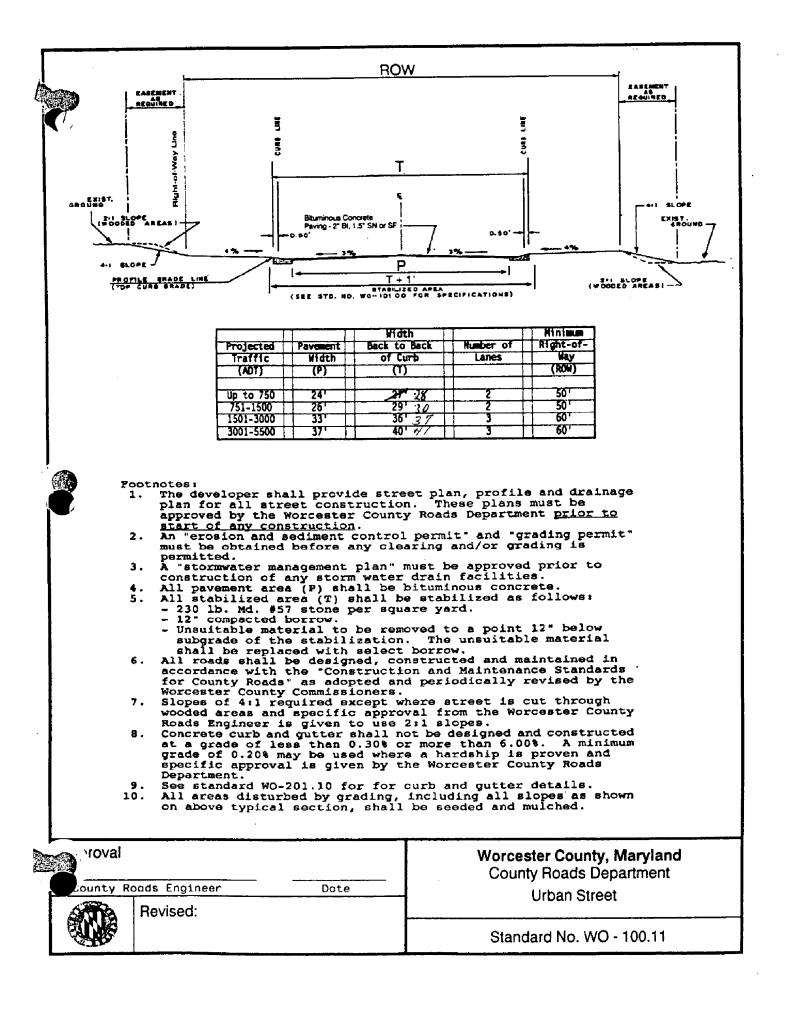
All roads shall be marked and signed in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, as adopted and periodically revised by the State Highway Administartion of Maryland. All roads shall have such identifying signs as may be required under other County law or regulation.

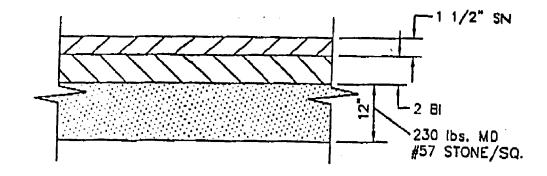
County Roads Engineer Date Revised:		Worcester County, Maryland County Roads Department Roadway Construction and Maintenance Standards

7. <u>PROCEDURES FOR CONSTRUCTION</u>

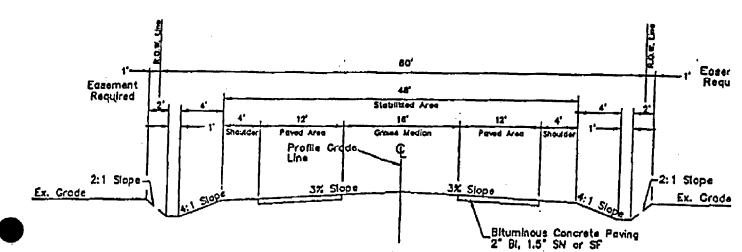
- a. The developer and/or his contractor shall arrange to meet with the engineer on site to review plans for road construction.
- b. The engineer shall upon notification by the developer and/or his contractor inspect the subgrade and grading operations prior to placing of any base material.
- c. The engineer shall upon notification by the developer and/or his contractor inspect the base, have it checked for depth and density. Unstable or insufficient base will not be acceptable.
- d. Upon approval of base course, stabilization may begin. Worcester County Roads will have an inspector on the job site during stabilization operation. Weight tickets or bills of lading are required for stone weight.
- e. Upon approval of all the above construction phases, and base is graded smooth, bituminous concrete surface can be applied. Worcester County Roads will have an inspector on job site during surfacing operations. Weight tickets for bituminous concrete will be required.
- f. The developer and/or his contractor shall in no instance proceed with any stage of construction until the engineer indicates approval of all previous stages.
- 9. Upon approval of all stages of construction, the County Roads Engineer shall indicate approval by letter to the Worcester County Commissioners and a copy of letter to the developer.
- h. Upon approval by the Worcester County Commissioners and upon receipt of fee simple title from the developer, and after any required Public Hearing the Commissioners will accept the road into the Worcester County Roads System for maintenance.

County Roads Engineer Date		Worcester County, Maryland County Roads Department
Revised:		Roadway Construction and Maintenance Standards
Set a		Standard No. WO - 101.10 (Page 3 of 3)





PAVING



Footnotes:

1.

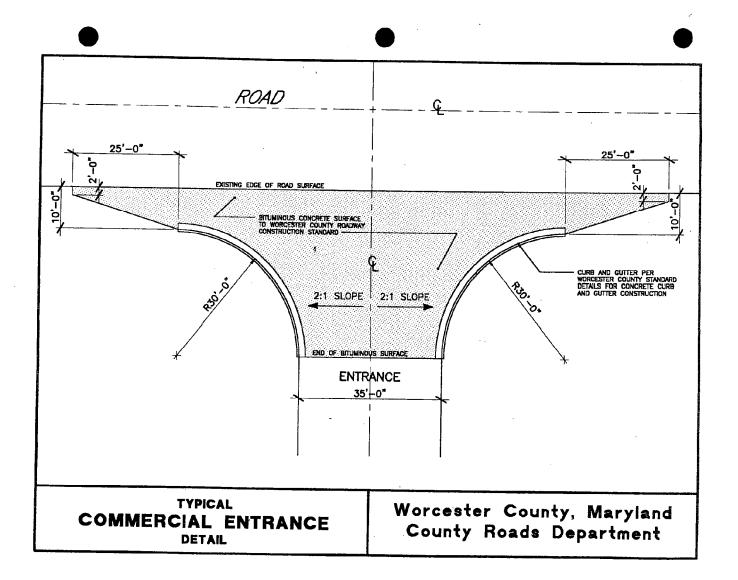
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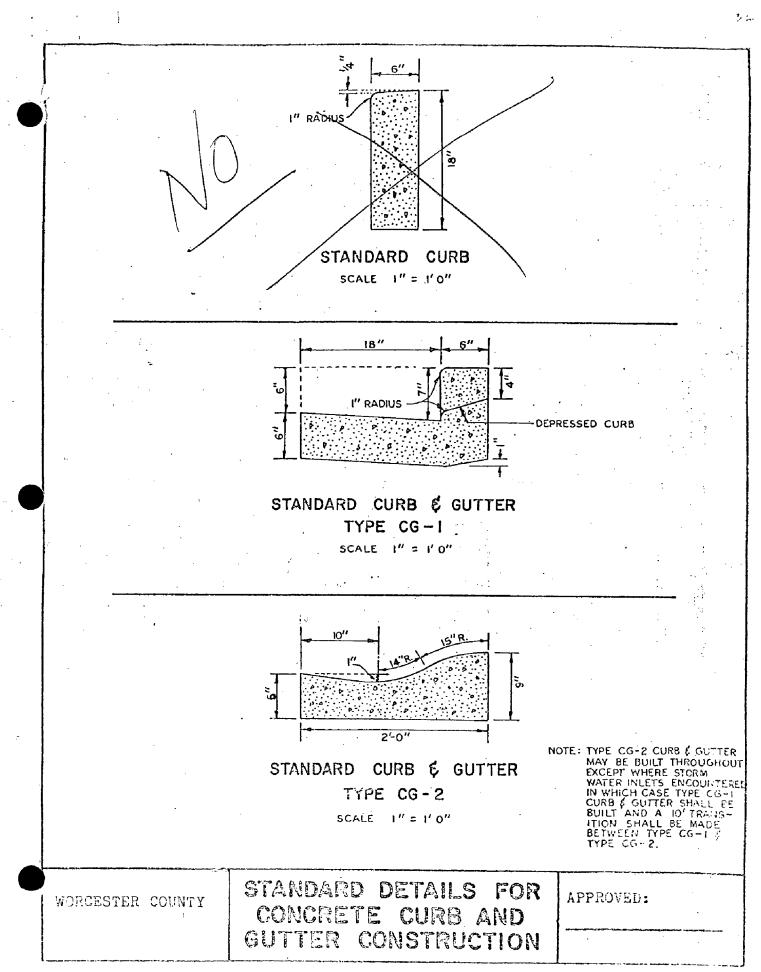
- The Rural Street Divided road section is permitted for "Public Easement Roads" only in Worcester County. The developer shall provide street plan, profile and drainage plan for all street construction. These plans must be approved by the Worcester County Department of Public Works - Roads Division prior to start of construction.
- An "erosion and sediment control permit" and "grading permit" must be obtained before any clearing and/or 3. grading is permitted. 4.
- A "stormwater management plan" must be approved prior to construction of any storm water drain facilities. 5.
- All pavement area shall be bituminous concrete. 6.
 - All stabilized area shall be stabilized as follows:
 - 230 lb. Md. #57 stone per square yard.
 - 12" compacted borrow.
 - Unsuitable material to be removed to a point 12" below subgrade of the stabilization. The unsuitable material shall be replaced with select borrow.
- 7. All roads shall be designed, constructed and maintained in accordance with the "Construction and Maintenance Standards for County Roads" as adopted and periodically revised by the Worcester County Commissioners.

Slopes of 4:1 required except where street is cut through wooded areas and specific approval from the 8. Worcester County Department of Public Works - Roads Division is given to use 2:1 slopes. 9.

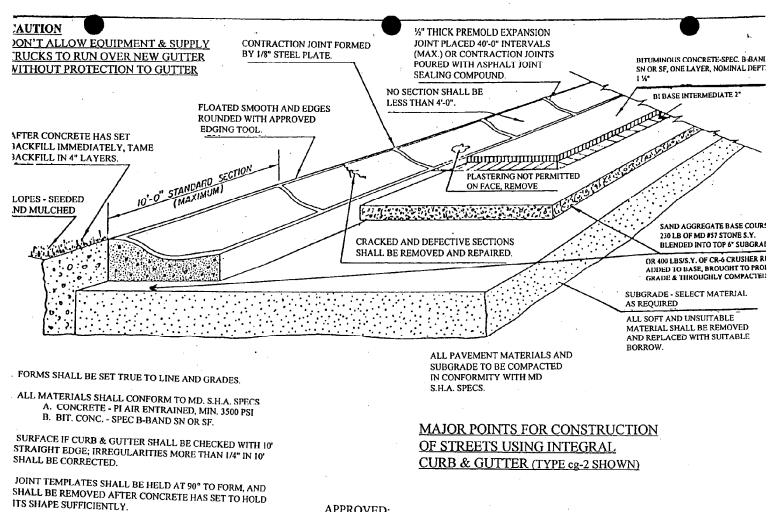
- See standard WO-202.10 for typical driveway entrance across side road ditch. 10.
- All areas disturbed by grading, including all slopes as shown on above typical section, shall be seeded and mulched.

Approval	-	Worcester County, Maryland
County Roads Engineer	Date	County Roads Department Rural Street - Divided (for Public Easement Roads only) Standard No. WO - 100.12
Revised:		





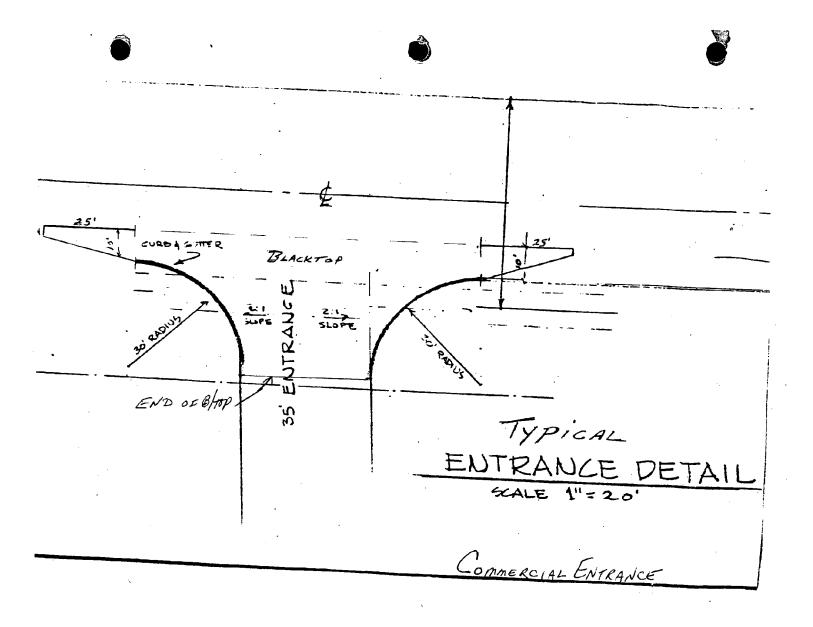
Schedule D, Worcester County Roads Resolution

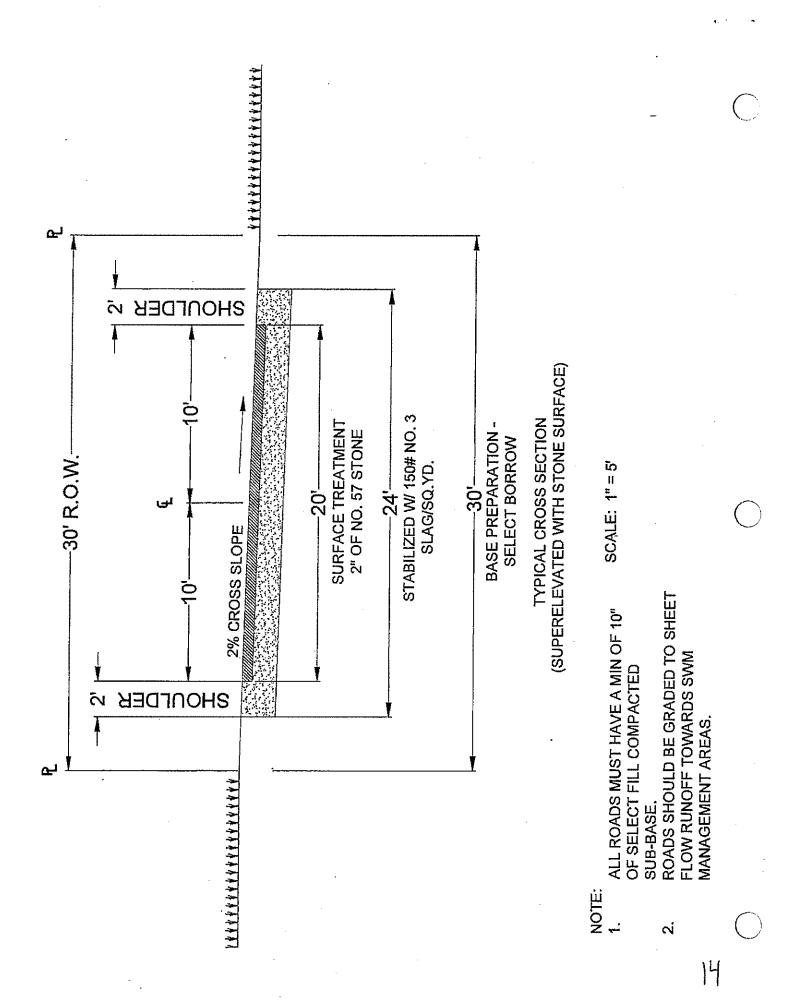


EXPOSED SURFACES SHALL BE FINISHED WHEN GREEN.

CURE IN CONF(TY TO MD. S.H.A. SPECS. APPROVED:

NOT TO SCALE







COMMISSIONERS JAMES G. BARRETT. MESIDENT K. BENNETT BOZMAN, vice mesident REGINALD T. HANCOCK CARLTON E. MASSEY W. KENNETH TYLER



Morcester County Roads

OFFICE OF

E. VICTOR SMULLEN COUNTY ROADS ENGINEER

TEL. 632-2244

September 11, 1990

21863

MAINTENANCE STANDARDS FOR O.P. ROADS

- Dirt roads to be scraped four (4) times yearly (minimum) and add borrow material as needed.
- 2. Surface treated roads to be patched as necessary with resurfacing approximately every five (5) years.
- 3. Cut vegetation one (1) time"at end of growing season.
- 4. Snow removal as required.

RESOLUTION AMENDING CONSTRUCTION AND MAINTENANCE STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER, INLETS AND UTILITIES FOR COUNTY ROADS

WHEREAS, Section 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repairs of "County Roads" and "Other Public Roads" within the County; and

WHEREAS, the County Commissioners adopted a resolution on November 5, 1991 adopting construction and maintenance standards for County Roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to revise and update such standards and specifications for installation of curb, gutter, inlets and utilities for County Roads;

NOW, THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County, Maryland that Section (4) (c) of Roadway Construction and Maintenance Standard WO-101.10 be revised to read as follows:

4. Standards and specifications for curb, gutter, inlets and utilities

c. All utility locations shall require prior approval of the County Roads Engineer. Complete plans and specifications shall be submitted prior to approval.

Utility lines and other structures such as manholes and valve boxes shall be located outside the paved section except in the following cases where approved by the County Roads Engineer:

- 1. Utility line crossovers of all types may be permitted in the paved section.
- 2. Sewer and water lines and other structures shall be permitted in cul-de-sacs and curvilinear sections.
- 3. Where location of sewer and water lines and other structures outside the paved section is impractical or creates undue hardship or unwarranted expense.
- 4. Where location of sewer and water lines and other structures outside the paved section will result in undue destruction of desirable vegetation.

In reviewing applications for approval, the County Roads Engineer shall consider:

- 1. Maintenance costs
- 2. Snow removal
- 3. Installation costs
- 4. Preservation of natural beauty and trees

BE IT FURTHER RESOLVED that this Resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED this 14th day of November, 1995.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER GOUNTY COMMISSIONERS

Bassett, Jr., President Flovd F

Q John E. Bloxom

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George M Hurley Jeanne Lynch

Raymond A. Warren





ec: M. Lackgay AUG 2 0 1998 WORCESTER COUNTY DEPT. OF PUBLIC WORKS

RESOLUTION 98 - 35

RESOLUTION AMENDING THE CONSTRUCTION AND MAINTENANCE STANDARDS FOR COUNTY ROADS TO ADD PROVISIONS FOR A RURAL STREET - DIVIDED ROAD SECTION FOR PUBLIC EASEMENT ROADS

WHEREAS, Section PW 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repair of county roads and other public roads within Worcester County, Maryland; and

WHEREAS, the Worcester County Commissioners adopted a resolution on November 5, 1991 adopting Construction and Maintenance Standards for County Roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to add a section to such standards to provide for a rural, divided road section for "Public Easement Roads" to permit the construction of such roads in Worcester County;

NOW THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County that the attached road construction standard entitled "Rural Street - Divided" is hereby adopted and permitted for all Public Easement Roads within Worcester County, Maryland.

PASSED AND ADOPTED this $18^{\frac{1}{2}}$ day of August, 1998 to be effective

nunc pro tunc the 4th day of August, 1998.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER COUNTY COMMISSIONERS
South Tim
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RESOLUTION NO. 00 - \underline{3}

RESOLUTION ADOPTING CONSTRUCTION STANDARDS FOR MINOR ROADS IN WORCESTER COUNTY, MARYLAND

WHEREAS, Section PW 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repair of "County Roads" and "Other Public Roads" within Worcester County; and

WHEREAS, the County Commissioners adopted a resolution on November 5, 1991 adopting construction and maintenance standards for county roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to amend said standards by the addition of a cross section for "minor roads" in major subdivisions.

NOW, THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County, Maryland that the attached cross section for minor roads as shown on Standard No. WO -100.01A is hereby adopted.

AND, BE IT FURTHER RESOLVED that this Resolution shall take effect upon its passage.

PASSED AND ADOPTED this 1st day of <u>February</u>, 2000.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER COUNTY COMMISSIONERS

Jeanne Lynch, President Bloxom. Vice President Gulvas James L. Purnell, Jr.

Virgil L. Shockley

TEL 632 - 1194



COMMISSIONERS REGINALD T HANCOCK, PRESIDENT GEORGE M HURLEY, VICE PRESIDENT FLOYD F. BASSETT, JR. JOHN E. BLOXOM JEANNE LYNCH



OFFICE OF THE COUNTY COMMISSIONERS

Worcester County

ROOM 112 COURT HOUSE SNOW HILL, MARYLAND 21863

November 7, 1991

JOHN A. YANKUS CHIEF ADMINISTRATIVE OFFICER EDWARD H HAMMOND, JR COUNTY ATTORNEY

W. Kelly Shannahan, Planner TO: ✓E. Victor Smullen, Roads Engineer John A. Yankus, Chief Administrative Officer FROM: SUBJECT: Road Construction and Design Standards .

At their meeting on November 5, 1991 the County Commissioners approved the new Road Construction and Design Standards. Enclosed is a copy of the Resolution which officially adopts these standards.



dd enc. CC125

RESOLUTION ADOPTING CONSTRUCTION AND MAINTENANCE STANDARDS FOR COUNTY ROADS

WHEREAS, Section 1-206 of the Public Works Article of the Public Local Laws of Worcester County provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repairs of "County Roads" and "Other Public Roads" within the County; and

WHEREAS, the County Commissioners adopted a resolution on June 21, 1988 adopting construction and maintenance standards for county roads; and

WHEREAS, the County Commissioners have determined it necessary and appropriate to revise and update such standards;

NOW THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County that the following road construction standards be adopted.

- 1. GENERAL CONSTRUCTION STANDARDS: Those general construction standards set forth in addendum attached hereto labeled Standard No. W0-101.10 are hereby adopted.
- CROSS SECTIONS: Those cross sections for urban streets, rural streets, and minor subdivision roads as shown on Standard Nos. W0-100.10, W0-100.11, and W0-100.01 attached hereto are hereby adopted.
- 3. COST ESTIMATES FOR ROAD CONSTRUCTION: Those cost estimates for road construction for urban streets and rural streets as shown on Standard No. W0-101.11 attached hereto are hereby adopted.
- 4. TRANSITIONS BETWEEN ROADS CONSTRUCTED TO DIFFERENT STANDARDS: Physical transitions between roads constructed to different standards shall be approved by the County Roads Department prior to commencement of construction.

AND BE IT FURTHER RESOLVED by the County Commissioners of Worcester County that the resolution of June 21, 1988 establishing road standards is hereby repealed as of April 1, 1992 as to plans approval and as of November 30, 1992 as to construction standards, it being the intent hereof that roads being planned and designed as of date of this resolution may continue to be planned and designed in accordance with the standards set forth in the resolution of June 21, 1988, provided approval of the Worcester County Roads Department is given prior to April 1, 1992 for each such road and that each such road is fully completed no later than November 30, 1992. Nothing herein, however, shall preclude the construction of a road in accordance with the standards set forth herein as of the date hereof.



BE IT FURTHER RESOLVED that this Resolution shall take effect upon its passage.

PASSED AND ADOPTED this 5th day of November, 1991.

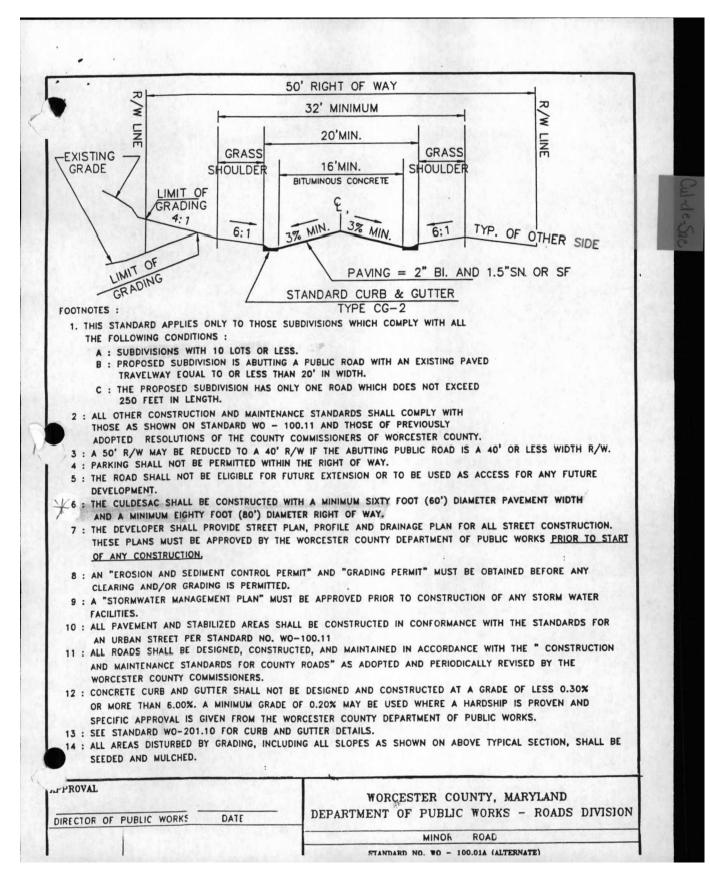
ATTEST:

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WORCESTER COUNTY COMMISSIONERS

40' Right-ot	-Way	
22' Stabiliz 22' Stabiliz 2' 18' Surface T SHOULDER PROPER GRADE LINE 2:1 SLOPE 3.0PE AU		
CONDITIONS OF USE: The minor subdivision road section shall only be use Worcester County Planning Commission where it find met:	ed where specifically approved by the ds that the following conditions have been	
 met: The road shall serve no more than five (5) lots in a minor subdivision only. This road section shall not be permitted in any major subdivision in Worcester County. The road shall not be eligible for future extension or to be used as access for any future development in excess of five (5) minor subdivision lots. No parking shall be permitted within the right-of-way. No public water or sewer utility lines shall be permitted within the right-of-way. Any minor subdivision road which extends greater than three hundred feet (300') in length shall be provided with a cul-de-sac with a minimum sixty foot (60') diameter of surface treatment within a minimum eighty foot (80') diameter right-of-way, unless an alternative means of turnaround approved by the County Roads Engineer is provided. 		
broval	Worcester County, Maryland County Roads Department	
County Roads Engineer Date Revised:	Minor Subdivision Road	
	Standard No. WO - 100.01	



11. 18 18 18 BesTemps **Career Associates** Permanent Employment Division SCH & SATURAL Temporary Employment ١, Division) ì Culs-de-Sac

50' Row 100' - 80' SurFace 40' ROW 80 60" 11



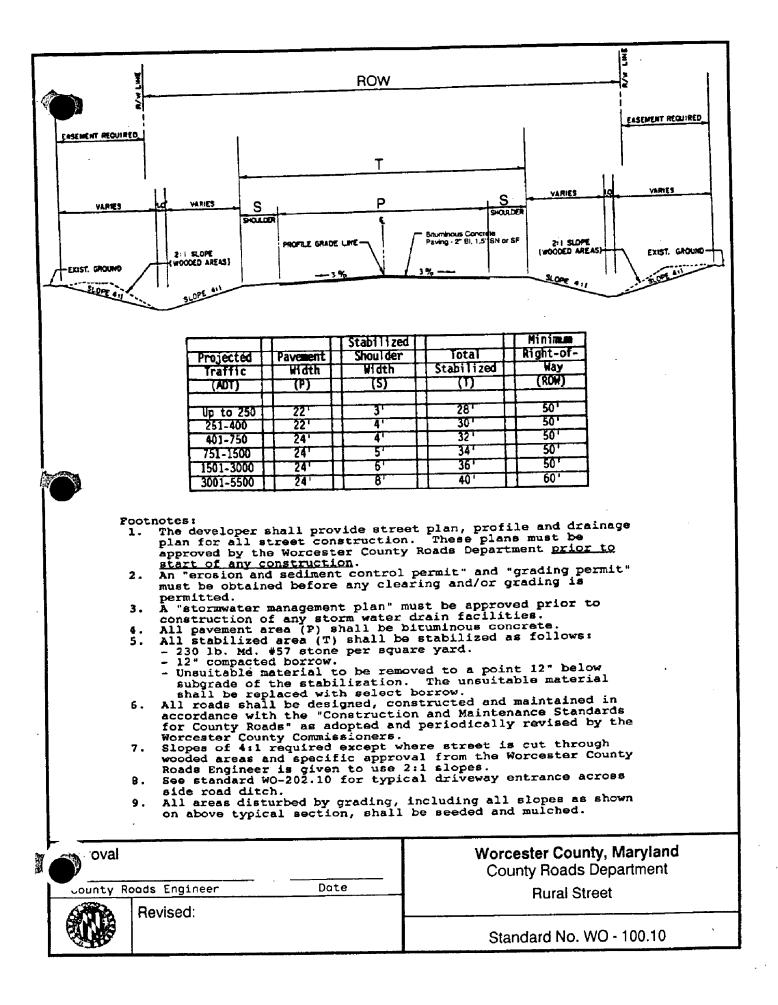
Salisbury 410-546-0252

Seaford, DE 302-629-4357

Cambridge, MD 410-221-9675

Dover, DE 302-674-4357

• Serving all of Delmarva Since1976



1. STANDARDS AND SPECIFICATIONS FOR GRADING AND BASE COURSES

- a. The right-of-way width shall be a minimum of fifty (50) feet.
- b. All lines and grades shall be approved by the County Roads Engineer before grading operations are begun.
- c. The road bed shall be graded for its full width (right-ofway line to right-of-way line), by removing all topsoil, stumps, root mat, unsuitable material, etc.
- d. Base may be prepared by using local Bank Run Gravel. Material shall meet Maryland State Highway Administration analysis test for A-3 or better materials. 230 lbs. of Md. No. 57 stone per square yard shall be added and worked into the top 6" of base with pulvi-mixer. As an alternate to this specification, 400 lbs. of Cr-6 Crusher Run material per square yard may be added to base and brought to the proper grade and cross-section and thoroughly compacted. Water shall be added by sprinkling in sufficient quantity to attain proper compaction and moisture control.
- e. Compaction of fill areas and base shall be by Sheeps Foot Roller, Self-Propelled Rubber Tired Roller or Vibratory Roller to achieve a minimum of 95% compaction.

2. STANDARDS AND SPECIFICATIONS FOR SURFACE COURSES

- a. All bituminous concrete shall be Type BI Base Intermediate, Type SN Surface Normal or Type SF Surface Fine complying with Maryland State Highway Administration Specifications. (2" BI and 1.5" SN or SF).
- b. No work on surface courses shall be permitted between November 15th and March 1st unless a developer or contractor agrees to accept full responsibility of the work, in writing, for a period of eighteen (18) months following completion of construction. Any damages occurring shall be the full responsibility of the contractor and/or developer.
- 3. DRAINAGE, SEDIMENT CONTROL, SEEDING AND MULCHING
 - a. All drainage structures shall be shown on road plan and profile as to size and location. Storm drainage, open or closed shall indicated invert elevations. Prior to stabilization all drainage structures shall be installed. Pipe to be ACCM or RCP meeting Maryland State Highway specifications.
 - b. Drainage facilities shall be provided on development site along with offsite facilities and extensions as may be required for effective drainage.
 - c. All drainage facilities are to be located in road rightof-way where possible and where not possible, provisions for drainage easements or right-of-way shall be obtained.

Approval	
County Roads Engineer Date	Worcester County, Maryland County Roads Department Roadway Construction and Maintenance Standards
Revised:	
	Standard No. WO - 101.10 (Page 1 of 3)

- d. Brosion must be controlled during construction. Facilities to control erosion must be cleaned of deposited material and removed at completion of construction.
- e. All slopes and unstabilized areas shall be properly fertilized, seeded and mulched as per requirements of Worcester County Sediment Control.
- f. Whatever measures needed to insure that a public nuisance is not created as a result of construction operations is required. (Dust, blocking of drainage, traffic, etc.)

4. <u>STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER, INLETS AND UTILITIES</u>

- a. Curb and gutter shall be concrete. Construction methods, materials and other specifications will conform to Maryland State Highway Administration.
- b. Inlets shall generally conform to Maryland State Highway specifications.
- c. All utility locations shall be approved by County Roads Engineer. Utility company shall submit plans for permit. All utilities located in roads right-of-way must be approved by the Worcester County Commissioners.

5. <u>ENTRANCES - RESIDENTIAL, COMMERCIAL, STATE HIGHWAYS</u>

- a. Residential entrances shall be constructed using or maintaining either a swale or drainage pipe. All entrances located along an open section type roadway will require pipes in the ditch line. (20.0' x 12" minimum size and length.) Swales are acceptable only within fifty (50) feet of a crest and upon approval of County Roads Engineer. Paved entrances shall conform to standards of Maryland State Highway Administration.
- b. Commercial entrance channelization shall conform to the policy and standards of the Maryland State Highway Administration. Application and plans will be submitted to Worcester County Roads for a commercial entrance permit. A five thousand dollar (\$5,000.00) performance bond to cover cost of construction will be required. All utility adjustments shall be the responsibility of the permittee.
- C. Subdivisions making connections with State Highways must comply with Maryland State Highway Administration Rules and Regulations.

6. ROAD SIGNS AND MARKING

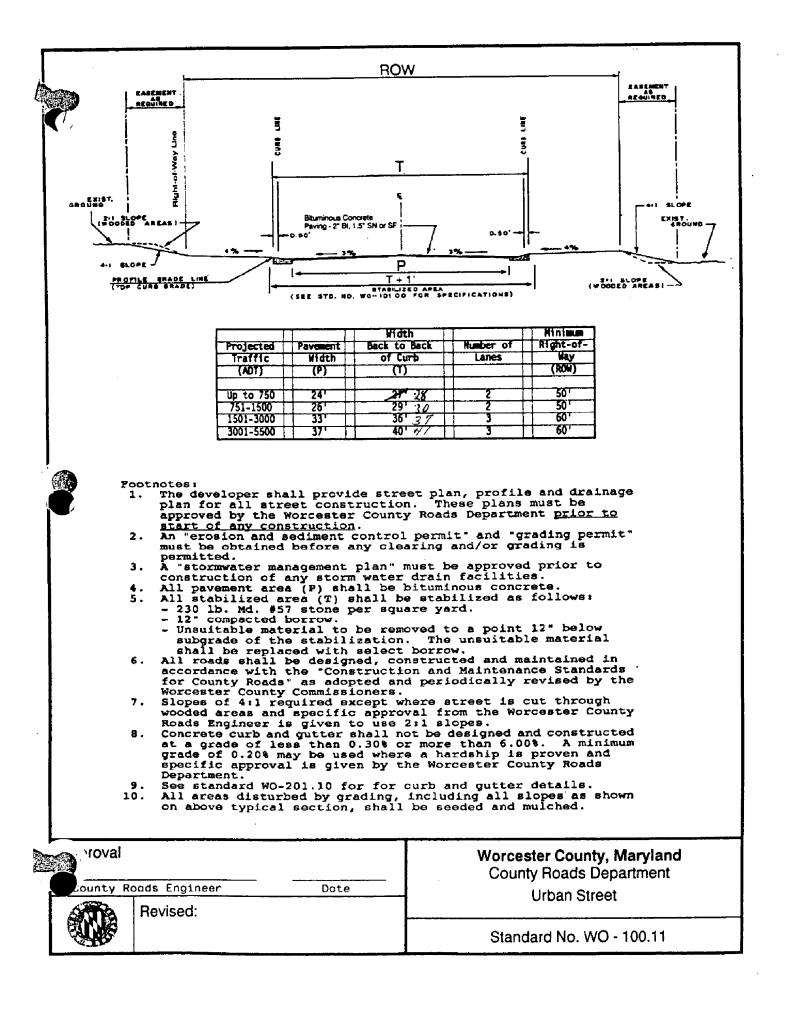
All roads shall be marked and signed in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, as adopted and periodically revised by the State Highway Administartion of Maryland. All roads shall have such identifying signs as may be required under other County law or regulation.

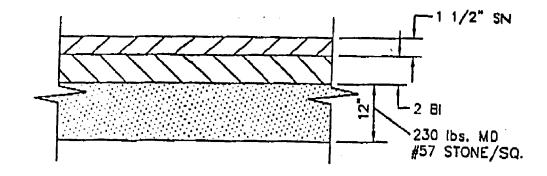
County Roads Engineer Date Revised:		Worcester County, Maryland County Roads Department Roadway Construction and Maintenance Standards

7. <u>PROCEDURES FOR CONSTRUCTION</u>

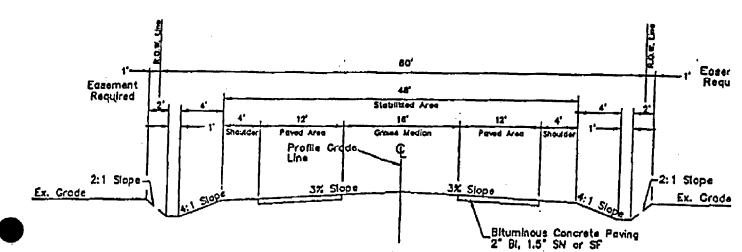
- a. The developer and/or his contractor shall arrange to meet with the engineer on site to review plans for road construction.
- b. The engineer shall upon notification by the developer and/or his contractor inspect the subgrade and grading operations prior to placing of any base material.
- c. The engineer shall upon notification by the developer and/or his contractor inspect the base, have it checked for depth and density. Unstable or insufficient base will not be acceptable.
- d. Upon approval of base course, stabilization may begin. Worcester County Roads will have an inspector on the job site during stabilization operation. Weight tickets or bills of lading are required for stone weight.
- e. Upon approval of all the above construction phases, and base is graded smooth, bituminous concrete surface can be applied. Worcester County Roads will have an inspector on job site during surfacing operations. Weight tickets for bituminous concrete will be required.
- f. The developer and/or his contractor shall in no instance proceed with any stage of construction until the engineer indicates approval of all previous stages.
- 9. Upon approval of all stages of construction, the County Roads Engineer shall indicate approval by letter to the Worcester County Commissioners and a copy of letter to the developer.
- h. Upon approval by the Worcester County Commissioners and upon receipt of fee simple title from the developer, and after any required Public Hearing the Commissioners will accept the road into the Worcester County Roads System for maintenance.

County Roads Engineer Date		Worcester County, Maryland County Roads Department	
	Revised:	Roadway Construction and Maintenance Standards	
Set a		Standard No. WO - 101.10 (Page 3 of 3)	





PAVING



Footnotes:

1.

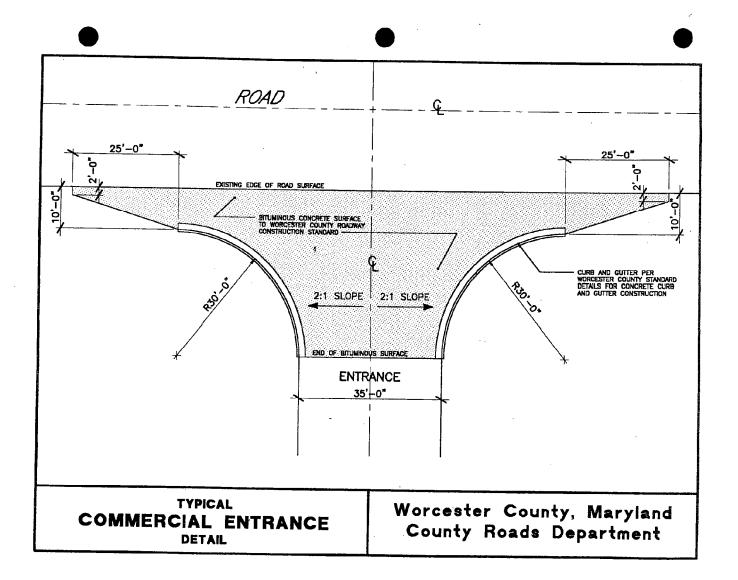
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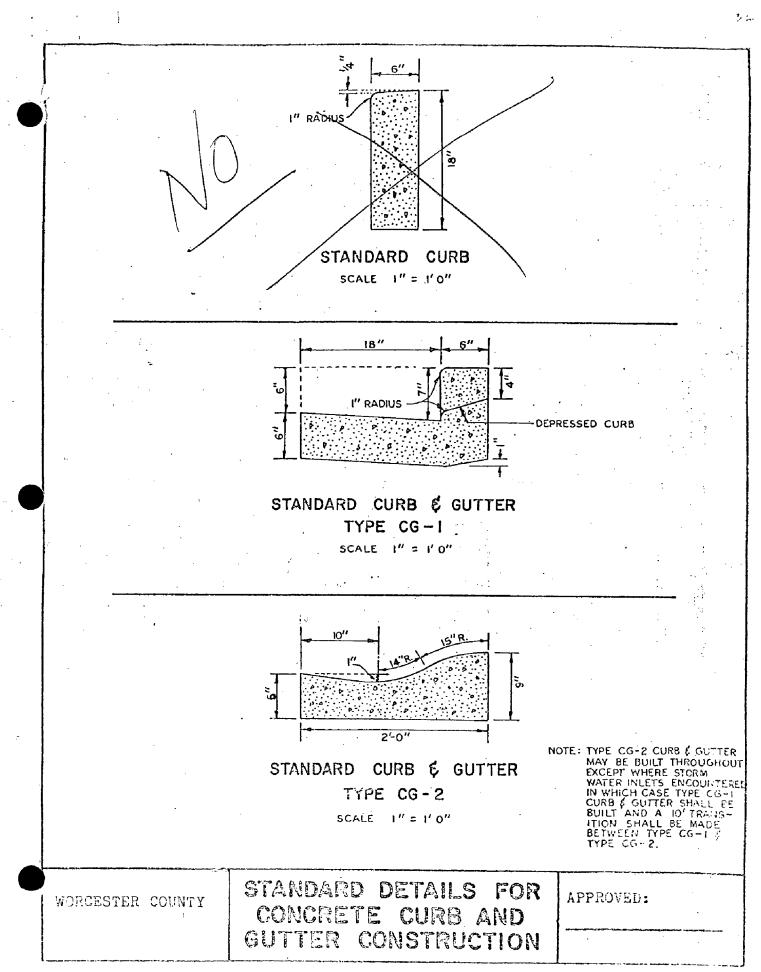
- The Rural Street Divided road section is permitted for "Public Easement Roads" only in Worcester County. The developer shall provide street plan, profile and drainage plan for all street construction. These plans must be approved by the Worcester County Department of Public Works - Roads Division prior to start of construction.
- An "erosion and sediment control permit" and "grading permit" must be obtained before any clearing and/or 3. grading is permitted. 4.
- A "stormwater management plan" must be approved prior to construction of any storm water drain facilities. 5.
- All pavement area shall be bituminous concrete. 6.
 - All stabilized area shall be stabilized as follows:
 - 230 lb. Md. #57 stone per square yard.
 - 12" compacted borrow.
 - Unsuitable material to be removed to a point 12" below subgrade of the stabilization. The unsuitable material shall be replaced with select borrow.
- 7. All roads shall be designed, constructed and maintained in accordance with the "Construction and Maintenance Standards for County Roads" as adopted and periodically revised by the Worcester County Commissioners.

Slopes of 4:1 required except where street is cut through wooded areas and specific approval from the 8. Worcester County Department of Public Works - Roads Division is given to use 2:1 slopes. 9.

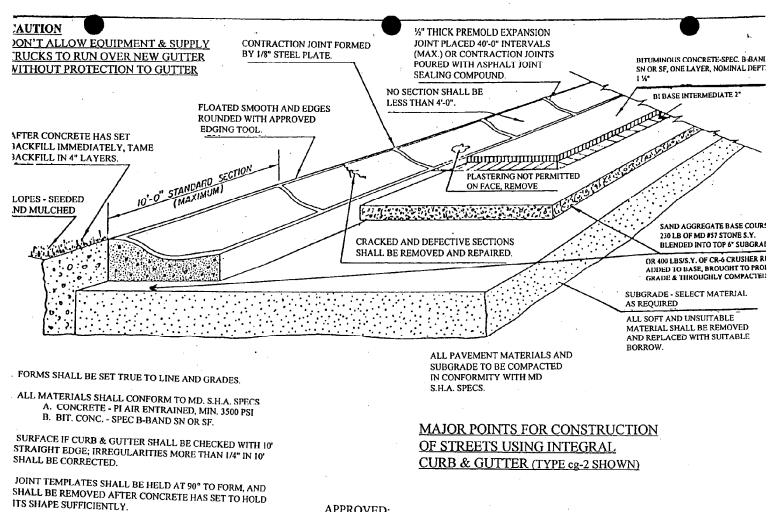
- See standard WO-202.10 for typical driveway entrance across side road ditch. 10.
- All areas disturbed by grading, including all slopes as shown on above typical section, shall be seeded and mulched.

Approval	-	Worcester County, Maryland
County Roads Engineer	Date	County Roads Department Rural Street - Divided
Revised:		(for Public Easement Roads only) Standard No. WO - 100.12





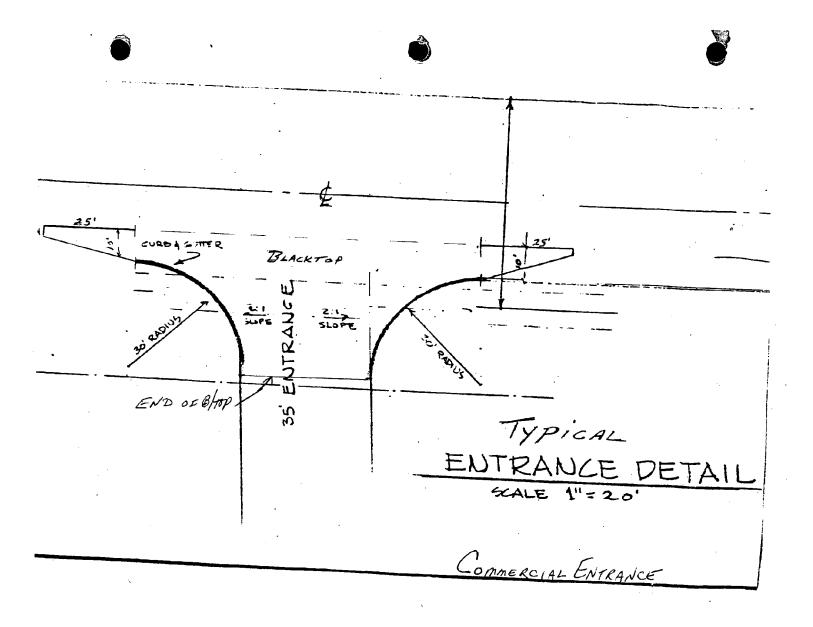
Schedule D, Worcester County Roads Resolution



EXPOSED SURFACES SHALL BE FINISHED WHEN GREEN.

CURE IN CONF(TY TO MD. S.H.A. SPECS. APPROVED:

NOT TO SCALE



Adopted - 5/17/83

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τ.

WORCESTER COUNTY ROADS SPECIFICATIONS PRIVATE CAMPGROUND SUBDIVISIONS

I. STANDARDS AND SPECIFICATIONS FOR GRADING AND BASE

II. STANDARDS AND SPECIFICATIONS FOR SURFACE COURSES

III. DRAINAGE, SEDIMENT CONTROL, SEEDING AND MULCHING

IV. STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER INLETS AND UTILITIES

V. ENTRANCES -- RESIDENTIAL, COMMERCIAL, STATE HIGHWAYS

VI. PROCEDURES FOR CONSTRUCTION

VII. CONSTRUCTION COST ESTIMATES

VIII. TYPICAL CROSS SECTIONS



I.

STANDARDS AND SPECIFICATIONS FOR GRADING AND BASE COURSES - PRIVATE CAMPGROUND SUBDIVISIONS

- A. Width Collector Roads shall have a right-of-way width of forty (40) feet minimum. All Other Roads shall have a right-of-way width of thirty (30) feet minimum.
- B. All lines and grades shall be approved by County Roads Engineer before grading operations are begun.
- C. Grading The road bed shall be graded for its full width by removing all topsoil, stumps, root mat, unsuitable material, etc.
- D. Base may be prepared by using local Bank Run Gravel. Material shall meet Maryland State Highway Administration analysis test for A-3 or better materials. 150 lbs. of Md. No. 3 Slag or 175 lbs. Stone per square yard shall be added and worked into the top 4"-6" of base with pulvi-mixer. On site borrow may be used if approved, in writing, by County Roads Engineer and 200 lbs. of Md. No. 3 Slag or 230 lbs. Stone per square yard added and worked into the top 6" of base with pulvi-mixer.
- E. Compaction of fill areas and base shall be by Sheeps Foot Roller, Self-Propelled Rubber Tired Roller or Vibratory Roller to achieve a minimum of 95% compaction. Depth of base shall be a minimum of ten (10) inches compacted.
- F. 1. On typical cross-section roadway Collector Roads the surface treated travel portion shall be twentytwo (22) feet in width with two (2) six (6) foot shoulders. Complete width of roadway and shoulers to have full depth base and stabilization.
 - 2. On typical cross-section roadway All Other Roads the surface treated travel portion shall be twenty (20) feet in width with two (2) two (2) foot shoulders. Complete width of roadway and shoulders to have full depth base and stabilization.

Coldenson. 50 Rus Co'pored. II. STANDARDS AND SPECIFICATIONS FOR SURFACE COURSES -PRIVATE CAMPGROUND SUBDIVISIONS

A. SURFACE TREATMENT

- 1. Surfacing shall be applied in three applications using 0.50, 0.50 and 0.33 gallons per square yard of bituminous material for each application. No. 3 stone or slag at 35 lbs. per square yard shall be used for the first application, No. 4 stone or slag at 30 lbs. per square yard shall be used for the second application and No. 7 stone or slag at 20 lbs. per square yard for the third application. Surface shall be thoroughly rolled after each application of bituminous and cover materials. At no time will surface treatment be applied until base is completely smooth, stable and free of soft or spongy spots. Cover and bituminous materials shall meet specifications set by the Maryland State Highway Administration for surface treatment work.
- 2. No work on surface courses shall be permitted between November 15th and March 1st unless a developer or contractor agrees to accept full responsibility of the work, in writing, for a period of eighteen (18) months following completion of construction. Any damages occuring shall be the full responsibility of the contractor and/or developer.



- III. DRAINAGE, SEDIMENT CONTROL, SEEDING AND MULCHING -PRIVATE CAMPGROUND SUBDIVISIONS
 - A. All drainage structures to be shown on road plan and profile as to size and location. Storm drainage, open or closed, shall indicate invert elevations. Prior to stabilization all drainage structures shall be installed. Pipe to be ACCM or RCP meeting Maryland State Highway specifications.
 - B. Drainage facilities shall be provided on development site along with offsite facilities and extensions as may be required for effective drainage.
 - C. All drainage facilities are to be located in road right-of-way where possible and where not possible, provisions for drainage easements or right-of-way shall be obtained.
 - D. Erosion must be controlled during construction. Facilities to control erosion must be cleaned of deposited material and removed at completion of construction.
 - E. All slopes and unstabilized areas shall be properly fertilized, seeded and mulched as per requirements of Worcester County Sediment Control.
 - F. Whatever measures needed to insure that a public nuisance is not created as a result of construction operations is required. (Dust, blocking of drainage, traffic, etc.)

STANDARDS AND SPECIFICATIONS FOR CURB, GUTTER, INLETS AND UTILITIES - PRIVATE CAMPGROUND SUBDIVISIONS

- A. Curb and gutter shall be concrete. Construction methods, materials and other specifications will conform to Maryland State Highway Administration specifications.
- B. Inlets shall generally conform to Maryland State Highway specifications.
- C. All utility locations shall be approved by County Roads Engineer. Utility company shall submit plans for permit. All utility installation shall be completed prior to paving.
- V. ENTRANCES RESIDENTIAL, COMMERCIAL, STATE HIGHWAYS -PRIVATE CAMPGROUND SUBDIVISIONS
 - A. Residential entrances shall be constructed using or maintaining either a swale or sheet drainage.
 - B. Commercial entrances channelization will be the policy and standards of the Maryland State Highway Administration. Application and plans will be submitted to Worcester County Roads for a commercial entrance permit. A performance bond to cover cost of construction will be required. All utility adjustments shall be the responsibility of the permittee.

IV.

PROCEDURES FOR CONSTRUCTION - PRIVATE CAMPGROUND SUBDIVISIONS

VI.

- A. The developer and/or his contractor shall arrange to meet with the engineer on site to review plans for road construction.
- B. The engineer shall upon notification by the developer and/or his contractor inspect the subgrade and grading operations prior to placing of any base material.
- C. The engineer shall upon notification by the developer and/or his contractor inspect the base, have it checked for depth and density. Unstable or insufficient base will not be acceptable.
- D. Upon approval of base course, stabilization with Md. No. 3 Slag may begin. Worcester County Roads will have an inspector on the job site during stabilization operation. Weight tickets or bills of lading are required for slag weight.
- E. Upon approval of all the above construction phases, and base is graded smooth, surface treatment can be applied. Worcester County Roads will have an inspector on job site during surfacing operations. Weight tickets for cover material and asphalt delivery tickets are required.
- F. The developer and/or his contractor shall in no instance proceed with any stage of construction until the engineer indicates approval, in writing, of all previous stages.
- G. Upon approval of all stages of construction, the County Roads Engineer shall indicate approval by letter to the Worcester County Roads Board and a copy of letter to the developer.

CONSTRUCTION COST ESTIMATE PRIVATE CAMPGROUND SUBDIVISIONS

COLLECTOR ROADS - 40 R/W

40' Clearing, Grading & Drainage 34' Roadway Base 34' Slag Stabilization 22' Surface Treatment 6' Seeding & Mulching	23,467 s.y. 19,947 s.y. 19,947 s.y. 12,907 s.y. 3,520 s.y.	@\$1.95 = @\$1.43 = @\$1.75 =	38,896.65 28,524.21 22,587.25
			\$101,929.31

\$101,929.31 = \$19.30 L.F. $\$22.75 \text{ L.F.} 7/7/87 \text{ CC}'_{s}$

ALL OTHER ROADS - 30' R/W

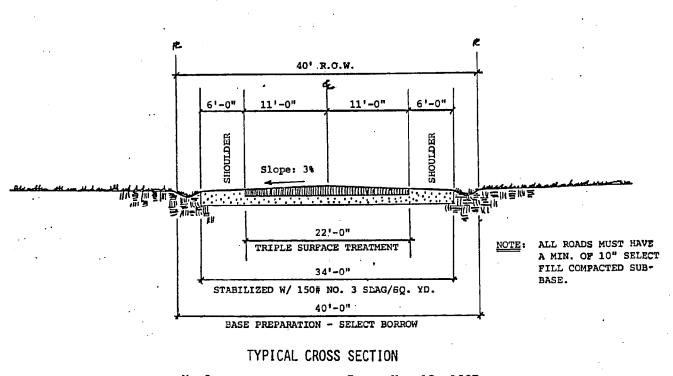
24 Sidy Stabilization	17,600 s.y. 14,080 s.y. 14,080 s.y. 11,733 s.y. 3,520 s.y.	<pre>@\$1.95 = @\$1.43 = @\$1.75 =</pre>	27,456.00 20,134.40 20,532,75
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\$ 77,697.55

\$77,967.55 = \$14.72 L.F. $\# /7.35 \text{ L.F.} 7 / 7 / 87 CC'_{s.}$

CAMPGROUND SUBDIVISION

COLLECTOR ROAD

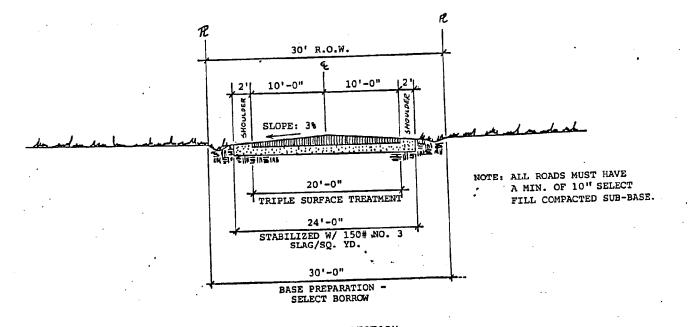




CAMPGROUND SUBDIVISION

MINOR ROAD









John Tustin

RESOLUTION NO. 01 - 30



CONSTRUCTION STANDARDS FOR ROADS IN RESIDENTIAL PLANNED COMMUNITIES AND RURAL STREET SECTION WITH BIKE PATH IN WORCESTER COUNTY, MARYLAND

WHEREAS, Section PW 1-206 of the Public Works Article of the Code of Public Local Laws of Worcester County, Maryland provides that the County Commissioners shall, from time to time, adopt construction standards by resolution providing for the construction, reconstruction, maintenance and repair of "County Roads" and "Other Public Roads" within Worcester County; and

WHEREAS, the County Commissioners adopted a resolution on November 5, 1991 adopting construction and maintenance standards for county roads; and

WHEREAS, the County Commissioners held a public hearing on July 24, 2001 to receive public comment on the addition of specific design standards for roads allowable only within Residential Planned Communities (RPCs); and

WHEREAS, the County Commissioners have determined it necessary and appropriate to amend said standards by the addition of specific design standards for roads allowable only within RPCs under certain conditions.

NOW, THEREFORE, BE IT RESOLVED by the County Commissioners of Worcester County, Maryland that the attached design standards for Residential Planned Community Streets as shown on Standard No. WO-100-10 (R.P.C.), Standards No. WO-200-01, WO-200-02, WO-200-03, WO-200-04 and WO-200-05 (Green Areas within Residential Plan. Comm.), and Standards WO-200-06, WO-200-07, and WO-200-08 (Residential Planned Community Streets) are hereby adopted.

AND, BE IT FURTHER RESOLVED by the County Commissioners of Worcester County, Maryland that these standards for RPC roads shall be allowable only within RPCs under certain conditions considering the following: the proposed lengths, alignments, intersections, cul-de-sacs, average daily traffic (ADT), the density of the development, planned uses of surrounding and connecting areas, and long-range plans within the area.

AND, BE IT FURTHER RESOLVED by the County Commissioners of Worcester County, Maryland that in applying these standards for roads in RPCs, at the discretion of the Worcester County Technical Review Committee, the developer may be required to conduct, at their sole expense, a Traffic Impact Analysis.

AND, BE IT FURTHER RESOLVED by the County Commissioners of Worcester County, Maryland that in applying these standards for roads in RPCs, the Worcester County Technical Review Committee shall invite the Fire Chief in whose primary service area the RPC is located, to review and comment on the plans for street design within the RPC to ensure that the roads are designed to provide adequate access for fire fighting equipment. AND, BE IT FURTHER RESOLVED by the County Commissioners of Worcester County, Maryland that such RPC roads will require a minimum 30-foot wide right-of-way in order to be classified as Public Roads. All roadways with a right-of-way width less than 30-feet in width shall be constructed to County standards, but shall be classified as Private Roads. In such cases, public easements shall be granted for the periodic maintenance of all public utilities within the private right-ofway.

AND, BE IT FURTHER RESOLVED by the County Commissioners of Worcester County, Maryland that the attached design Standard No. WO-300-01 (Typical Rural Street Section with Bike Path) is hereby adopted for application throughout the unincorporated areas of Worcester County.

PASSED AND ADOPTED this $7^{\frac{1}{2}}$ day of <u>August</u>, 2001 to be effective immediately.

ATTEST:

Gerald T. Mason Chief Administrative Officer

WORCESTER COUNTY COMMISSIONERS

hn E. Bloxom, Pres President Iame urnell ouise L. Gulyas anne Lynch

irgil L. Shockley

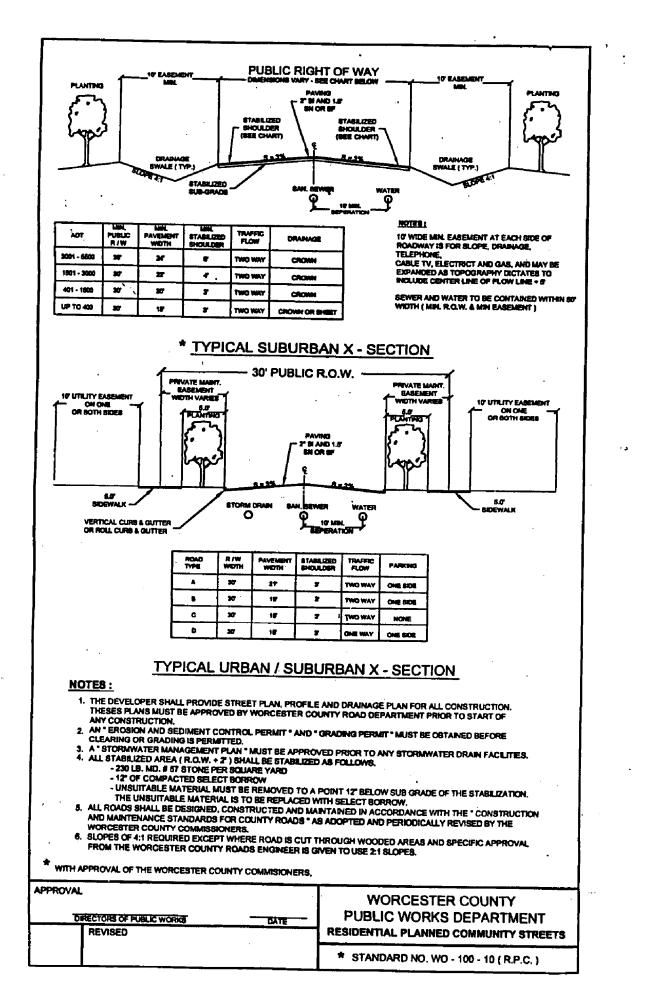
RESIDENTIAL PLANNED COMMUNITIES PROPOSED ROAD STANDARDS

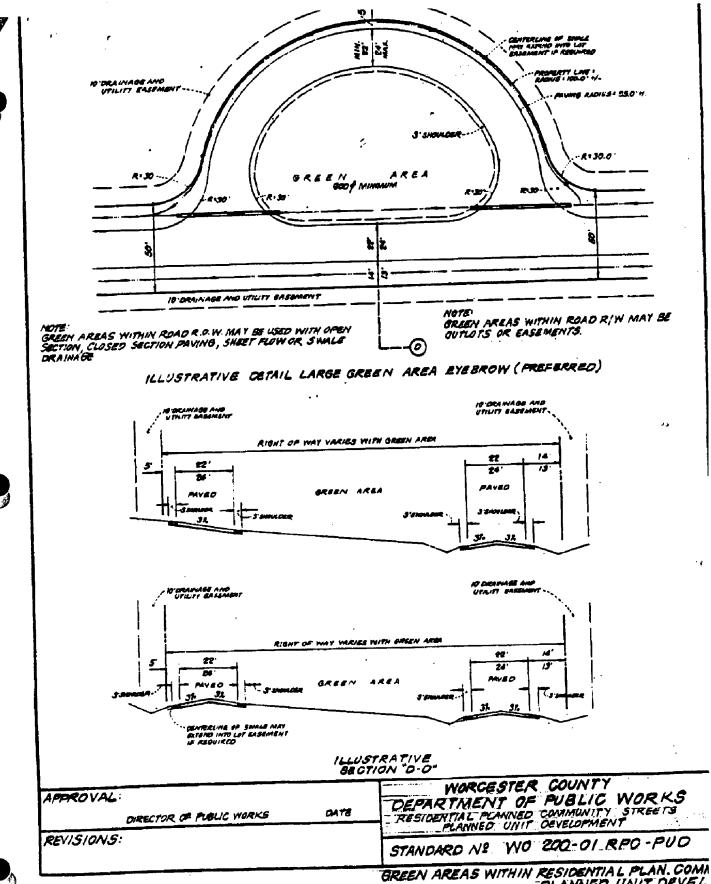
The attached Road Standards are intended to be allowable only within Residential Planned Communities (RPC) as defined within the Worcester County Zoning and Subdivision Control Article. In reviewing RPC's, the Technical Review Committee, Planning Commission and the County Commissioners will consider the proposed lengths, alignments, intersections, cul-de-sacs, proposed Average Daily Traffic (ADT), the Developments Density, planned uses of surrounding and connecting areas, long-range plans within the area, consuit with the local fire service, and may at their discretion require the developer to conduct and fully fund any Traffic Impact Analysis that is requested by the County.

The proposed Standard WO-100-10 (R.C.P.) will require a minimum 30' Right-of-Way. Green area within Residential Planned Communities shall be as shown on Standard No. 200-01-RPC thru 200-01-05-RPC. Private Road Standards within Residential Planned Communities are shown on Standards WO-200-06 RPC/PRI thru WO-200-08 RPC/PRI.

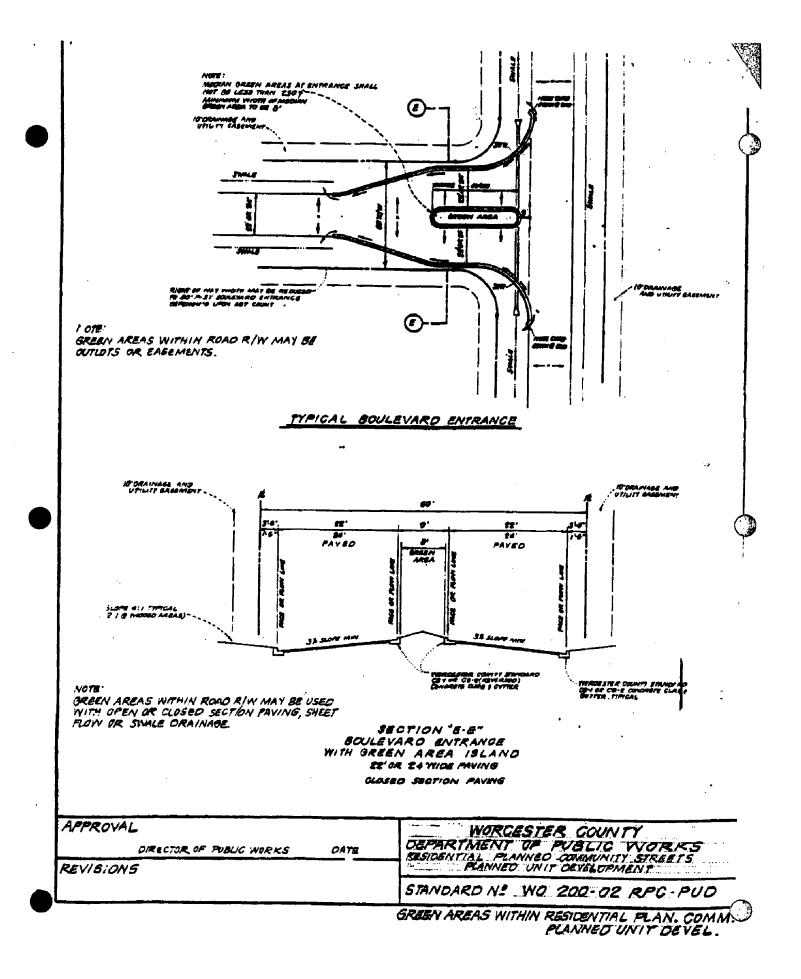
Clearing will be necessary only to the extent required to construct roadways and provide access to adjoining lots and ensure the proper installation of all public and private utilities.

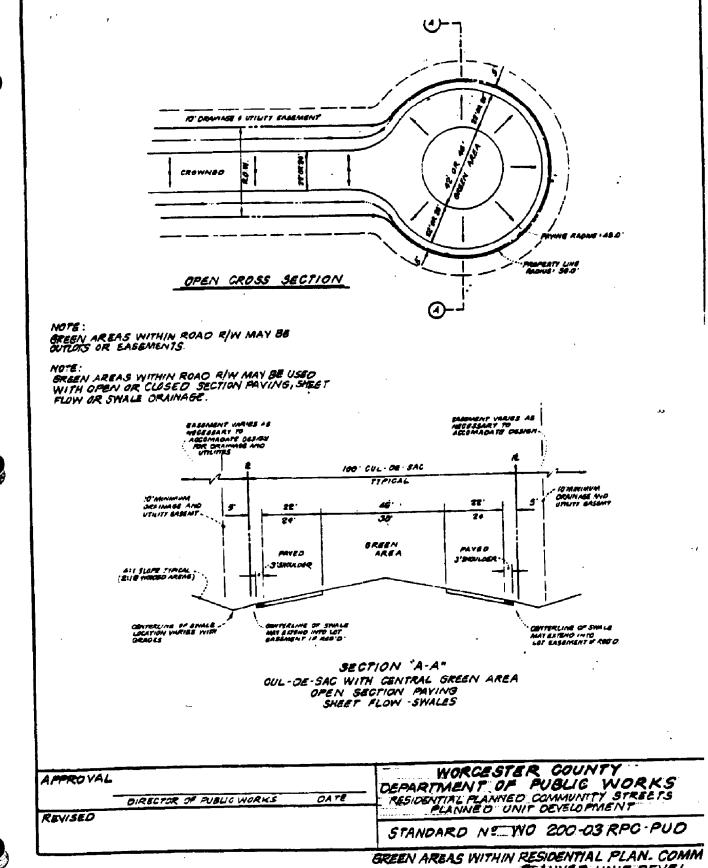
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PLANNED UNIT DEVEL

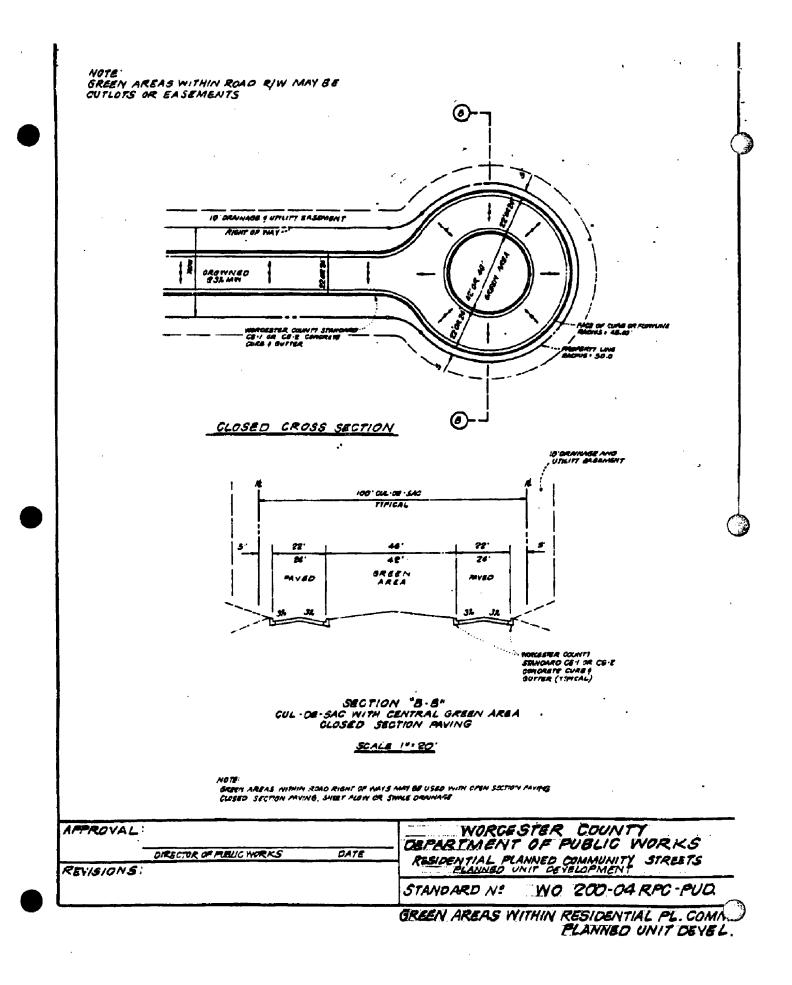


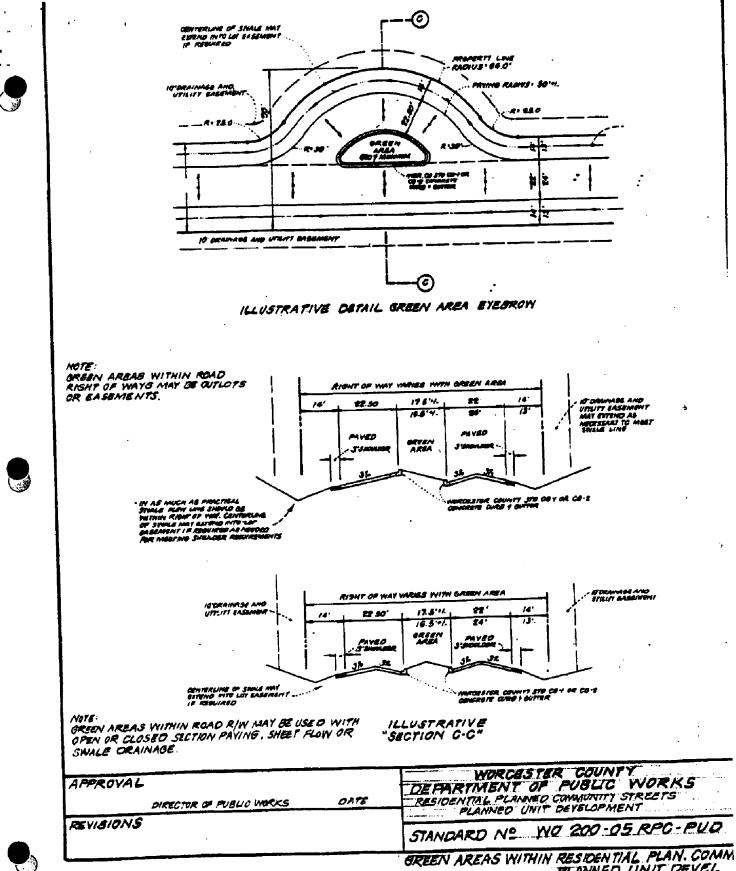


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PLANNED UNIT DEVEL.

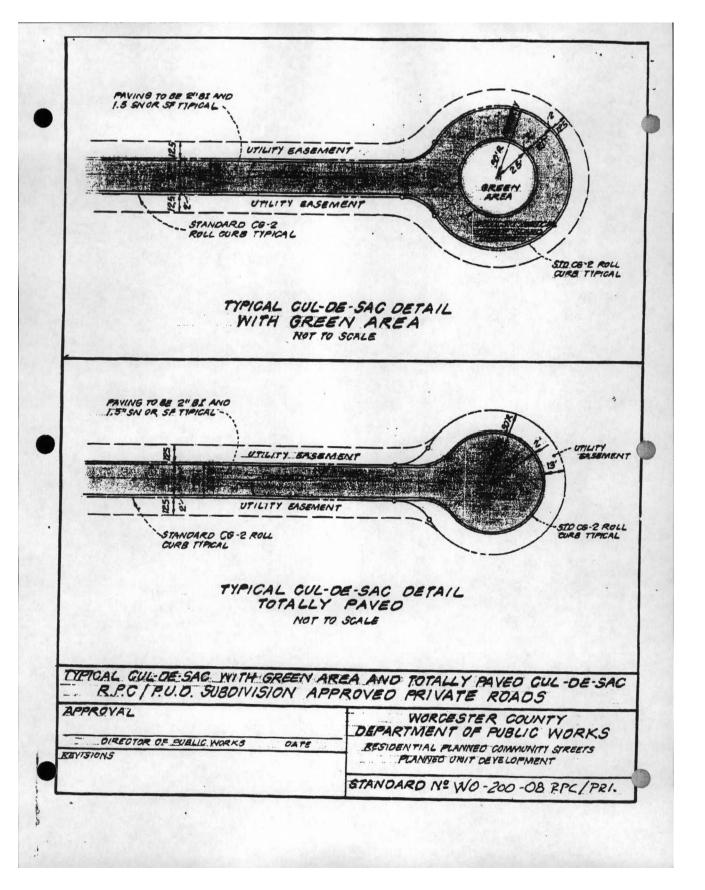


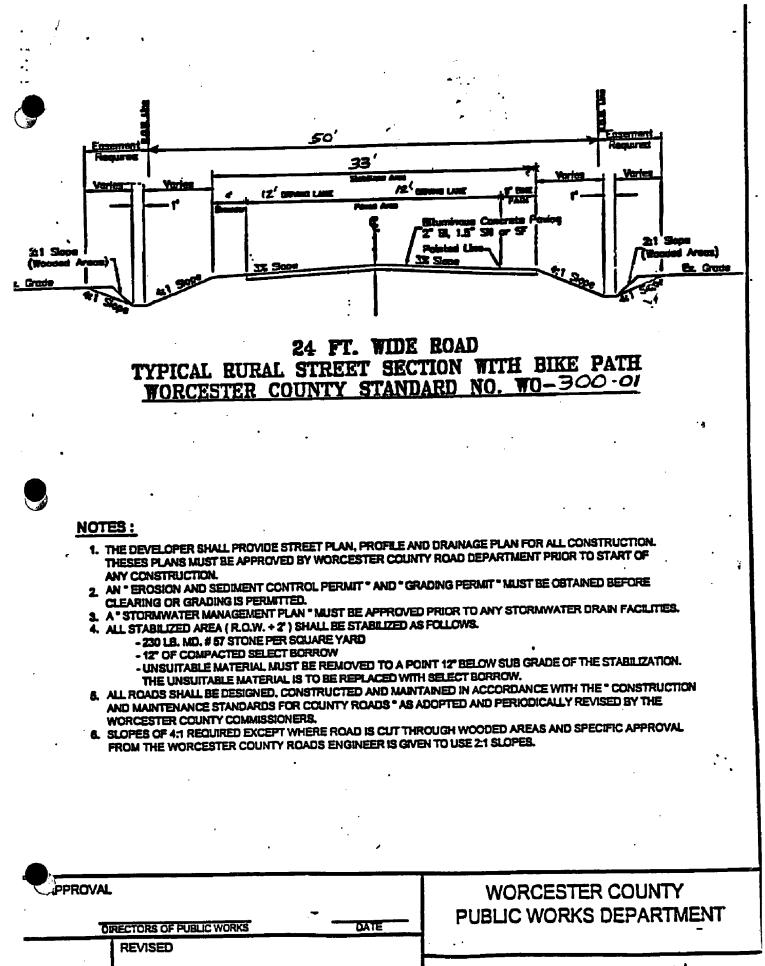


PLANNED UNIT DEVEL.

30 ' RICHT OF WAY (PRIVATE) CENTERLINE ASEMENT 25'UTILITY HOUSE PAO +1- 2/3 EASEMENT LOT DEPTH (ELEC, GAS, TV ENONE, SLOPE (ALEC CAS. TY THENE SLOPE AND DEAMAGE) AND ORAINAGE 21. OPTIONAL z UNDERDRAIN WEARING SURFACE OPTIONAL 2 TIPICAL SLOPE UNDER DRANN PAYING- 2"BE AND I.S" 2' NORCINOUN SHOR SF MAXIMUM EIS HOODED AN SLOPE EN O WOODED - 3% 27' STABILIZED AREA STANDARD WOR, SOUNTY DETICNAL ROLL GURG OR VERTIGAL UNDERDRAM SANITARY. STORA WATER STHER DRAIN 10 MMUMUM OPTIONAL UNDERDRAIN SETERATION .____ ". 1**0**4 PR. ダマ Ļ * Ŝ 0172558/0 148 100 -· · · · 2.04 MODIFIED TYPE CG-I STANOARD TYPE CG-2 CURE | GUTTER (VERTICAL SURE) CURBI GUTTER (ROLL CURB) NOTES: I. THE DEVELOPER SHALL PROVIDE STREET PLAN; DRATNAGE PLAN AND PROFILES FOR ALL STREET CONSTRUCTION. THESE PLANS TAUST BE APPROVED BY WORCESTER COUNTY ROADS DEPARTMENT PRIOR TO THE START OF CONSTRUCTION. 2. AN EROSION AND SEDIMENT CONTROL PERMIT AND GRADING PERMIT MUST BE OBTAINED BEFORE CLEARING DE GRADING IS PERMITTED S.A. STORM WATER MANAGEMENT PLAN MUST BE APPROVED PRIOR TO ANY STORM WATER DRAIN FACILIFIES. A ALL STABILIZED AREA (R.O.W. + 2') SHALL BE STABILIZED AS FOLLOWS: 250 LE MO + 57 STONE PER SQUARE YARD IZ" COMPACTED SELECT BORROW UNSUITABLE MATERIAL TO BE REMOVED TO A POINT IZ" BELOW SUB GRADE OF THE STABILIZATION. INSUITABLE MATERIAL IS TO BE REPLACED WITH SELECT BERROW 5 ALL ROADS SHALL BE DESIGNED CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION AND MAINTENANCE STANDARDS FOR COUNTY ROADS AS ADOPTED AND PERIODICALLY REVISED BY THE WORCESTER COUNTY COMMISSIONERS. EAL UTILITY (ELEC, "HONE, GAS CATY) CROSS OVERS SHALL OF PLACED WITHIN SCHEDULE 60 TYPICAL ROAD DETAIL RURAL RESIDENTIAL R.P.C. / P.U.O. SUBDIVISION APPROVED PRIVATE ROAD APPROVAL WORCESTER COUNTY and the second DEPARTMENT OF PUBLIC WORKS DIRECTOR OF PUBLIC WORKS OATE REVISIONS RESIDENTIAL PLANNED COMMUNITY STREETS PLANNED UNIT DEVELOPMENT STANDARD Nº : WO-200-06 RPC/PRI.

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	STANDARD CO-2 DURS SO'R
	BREEN AREA (LENGTH VARIES)
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TYPICAL BOULEVA	PPROVED PRIVATE ROADS
R.E.C. / P.U.D. SUBDIVISION A	PPROVED PRIVATE RDADS
APPROVAL	WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR OF PUBLIC WORKS DATE	RESIDENTIAL PLANNED COMMUNITY STREETS PLANNED UNIT DE YELOPMENT
CENTS CONS	STANDARD Nº WO 200- OT EPC / PRI





* GTANDARD NO. WD - 200-01