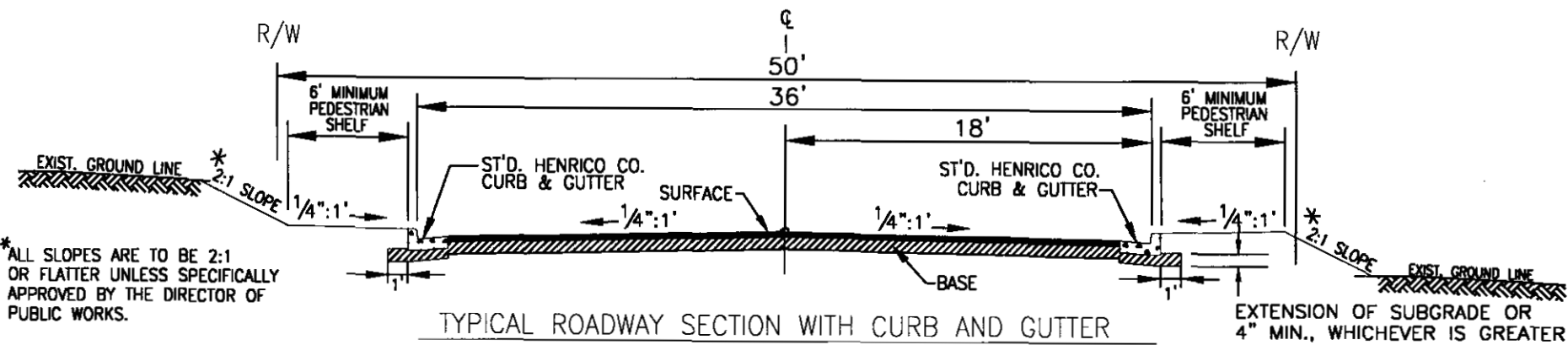
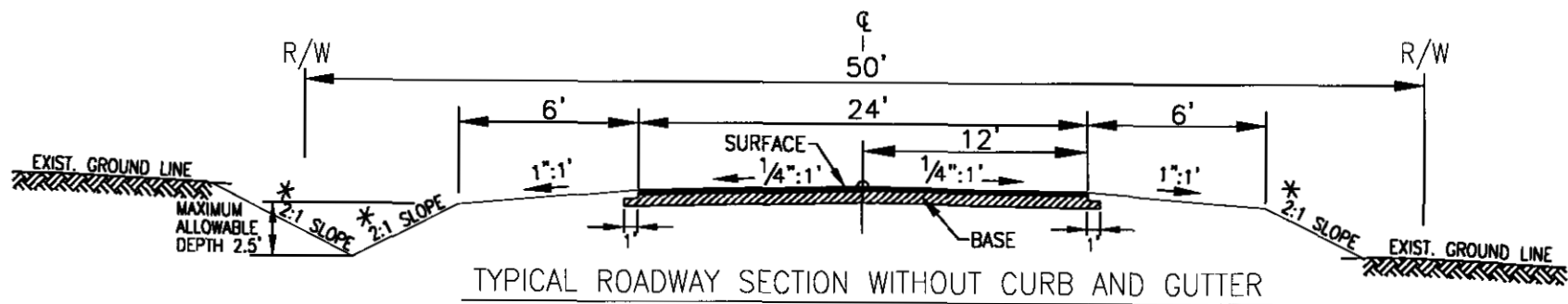


# Appendix B

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\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
N.A.	6" AGGREGATE BASE MATERIAL	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDING AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

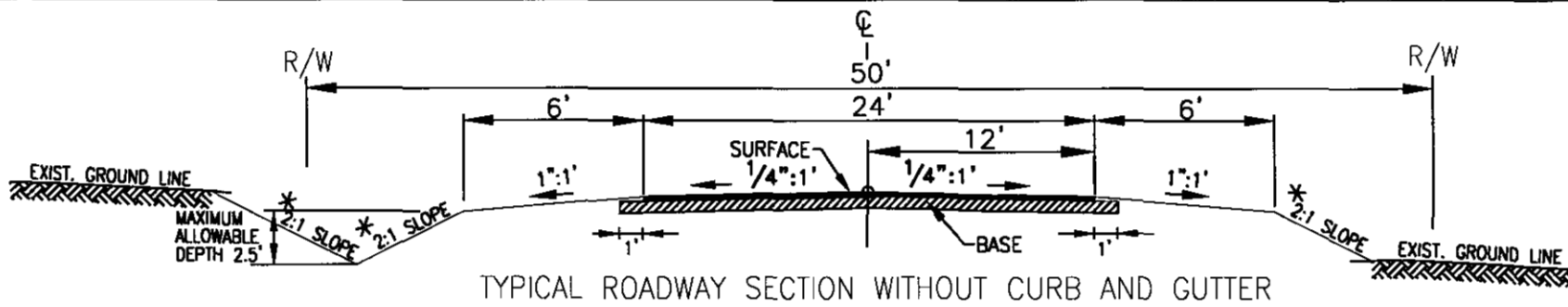
## TYPICAL SECTION - CLASSIFICATION I (0-250 VPD)

County of Henrico  
Department of Public Works

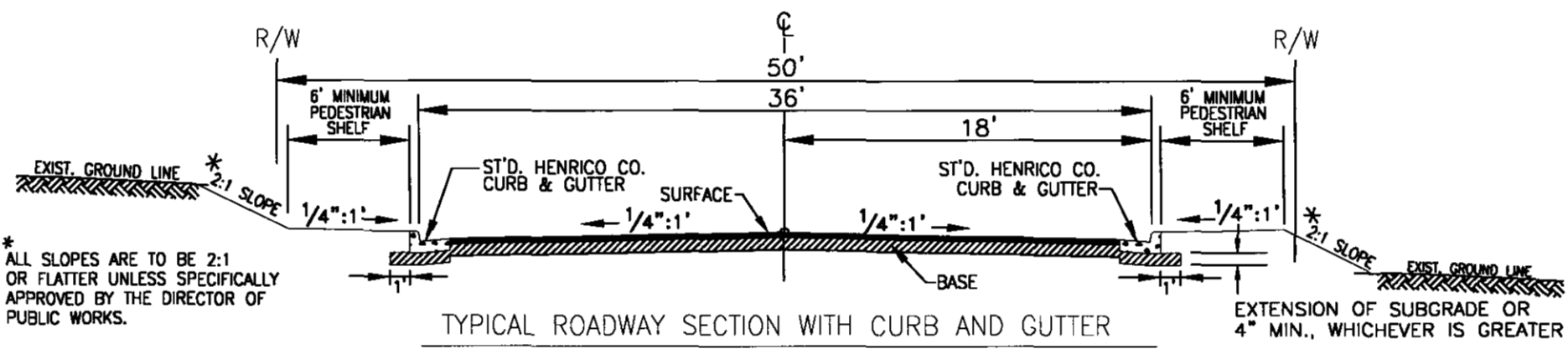
JANUARY 1, 2002

HENTYPSEC-CL-1.DWG





TYPICAL ROADWAY SECTION WITHOUT CURB AND GUTTER



TYPICAL ROADWAY SECTION WITH CURB AND GUTTER

\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
N.A.	7" AGGREGATE BASE MATERIAL	2" ASPHALT SURFACE COURSE

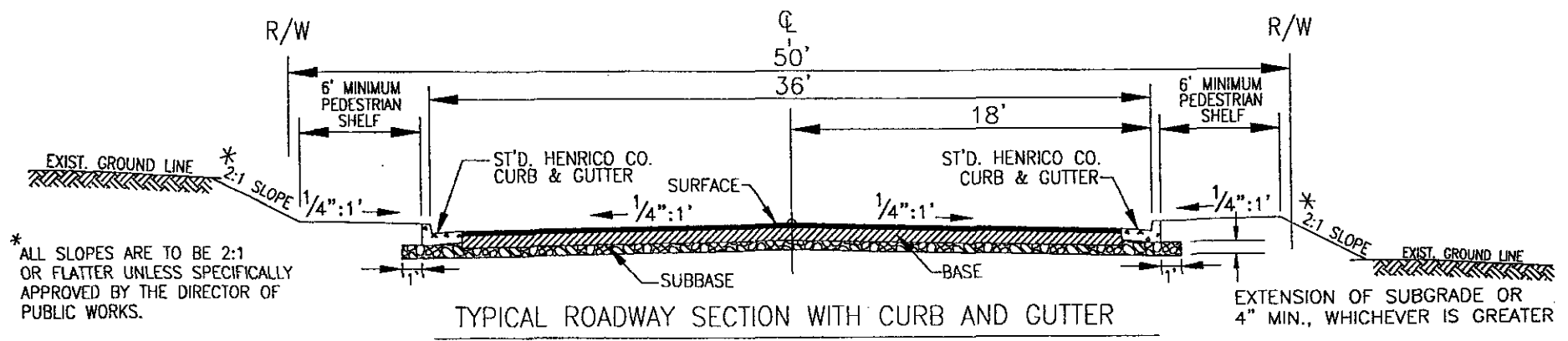
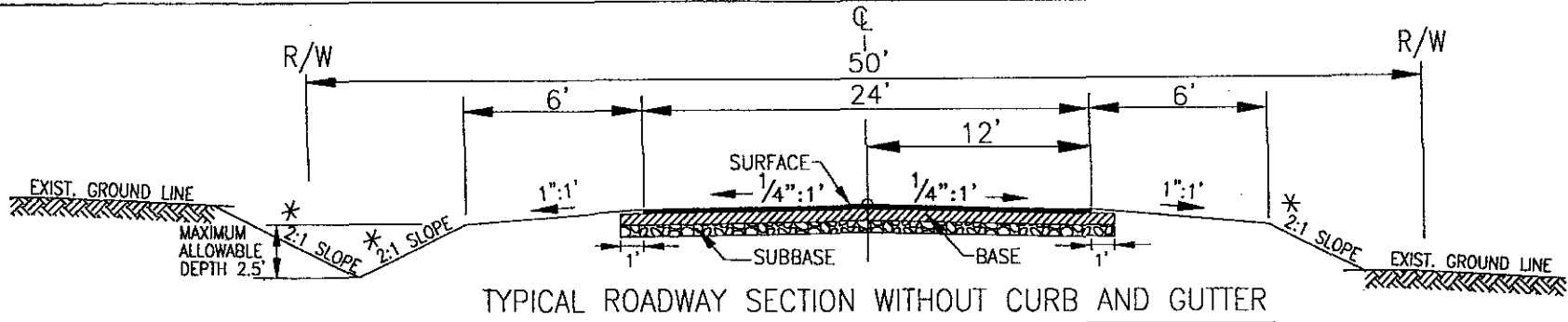
1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

**TYPICAL SECTION - CLASSIFICATION II**  
**(251-400 VPD)**  
 County of Henrico  
 Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-2.DWG





\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

EXTENSION OF SUBGRADE OR 4" MIN., WHICHEVER IS GREATER

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
1" AGGREGATE SUBBASE MATERIAL	8" AGGREGATE BASE MATERIAL	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

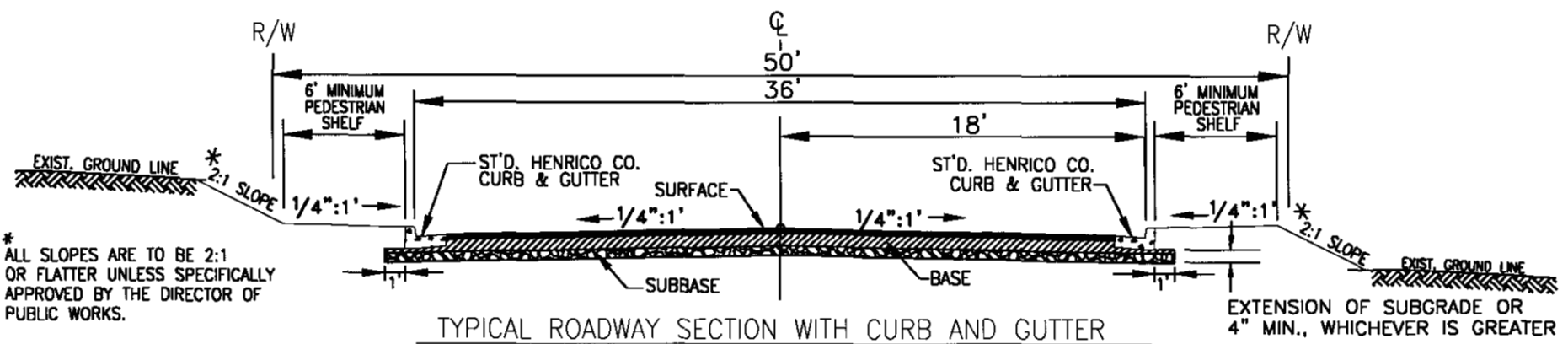
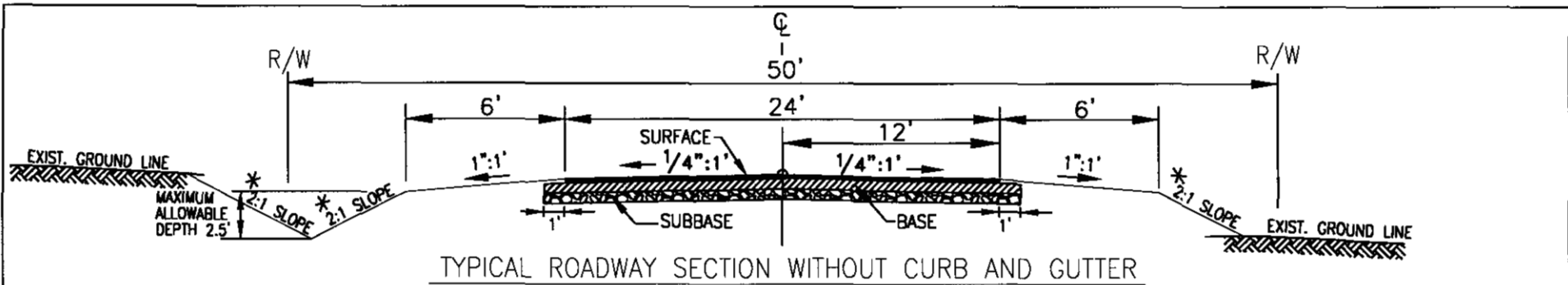


## TYPICAL SECTION - CLASSIFICATION III (401-750 VPD)

County of Henrico  
Department of Public Works

AUGUST 1, 2001

HENTYPSEC-CL-3.DWG



\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
4" AGGREGATE SUBBASE MATERIAL	8" AGGREGATE BASE MATERIAL	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

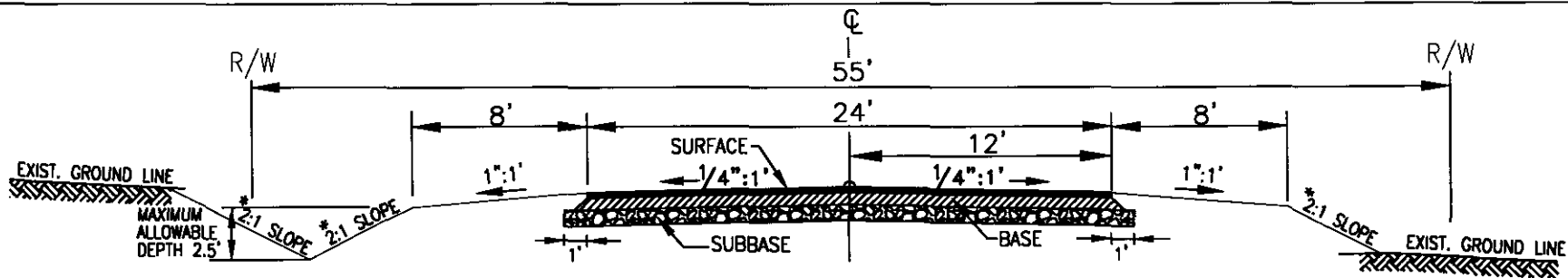
## TYPICAL SECTION - CLASSIFICATION IV (751-1000 VPD)

County of Henrico  
Department of Public Works

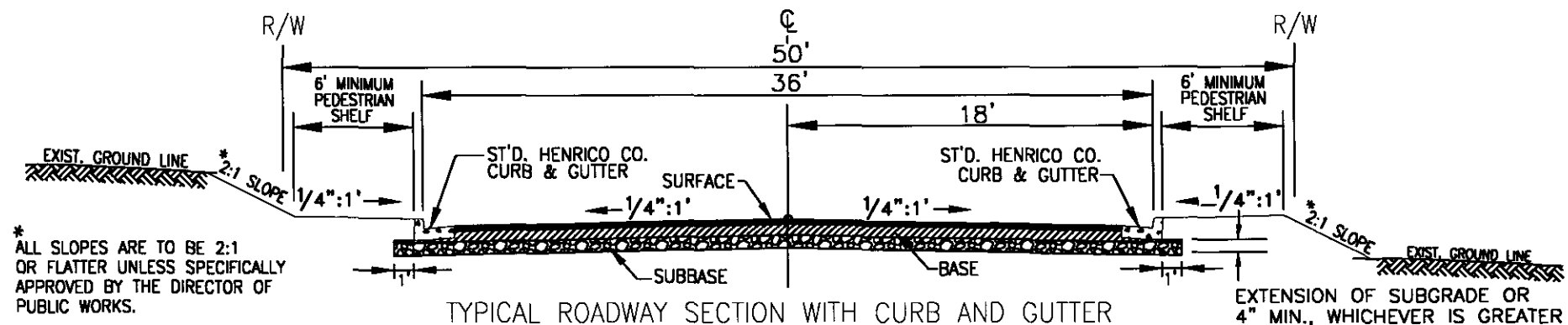
JANUARY 1, 2002

HENTYPSEC-CL-4.DWG





TYPICAL ROADWAY SECTION WITHOUT CURB AND GUTTER



TYPICAL ROADWAY SECTION WITH CURB AND GUTTER

\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
8" AGGREGATE BASE MATERIAL	3" ASPHALT BASE COURSE	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.

5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

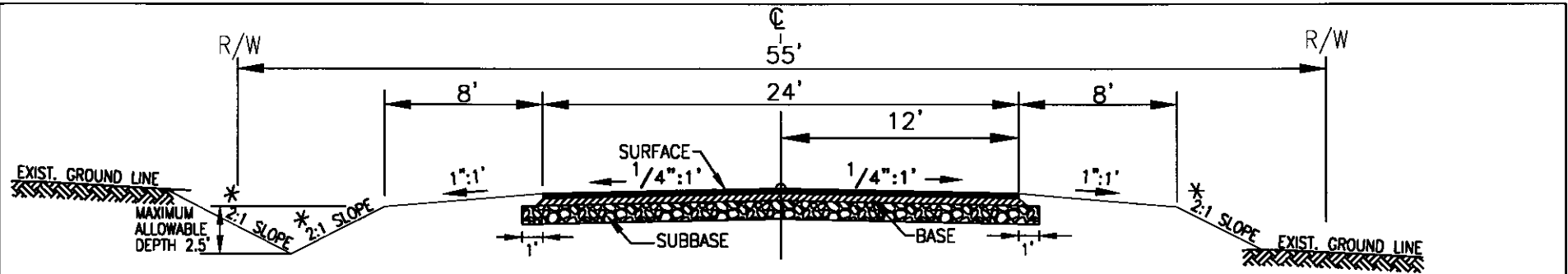


## TYPICAL SECTION - CLASSIFICATION V (1001-3000 VPD)

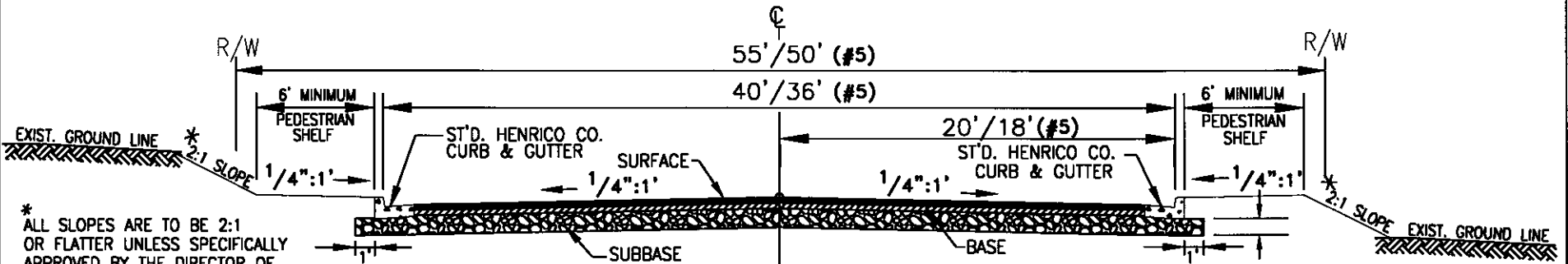
County of Henrico  
Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-5.DWG



TYPICAL ROADWAY SECTION WITHOUT CURB AND GUTTER



TYPICAL ROADWAY SECTION WITH CURB AND GUTTER

EXTENSION OF SUBGRADE OR 4" MIN., WHICHEVER IS GREATER

\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
12" AGGREGATE SUBBASE MATERIAL	4" ASPHALT BASE COURSE	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL. IN ADDITION, ST'D. UD-4 UNDERDRAINS ARE REQUIRED.
5. A MINIMUM RIGHT-OF-WAY OF 50 FEET AND 36 FOOT SECTION MAY BE CONSIDERED IF CERTAIN RESTRICTIONS ARE INCLUDED, I.E., PARKING RESTRICTIONS, REVERSE FRONTAGE.

6. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
7. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
8. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
9. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.



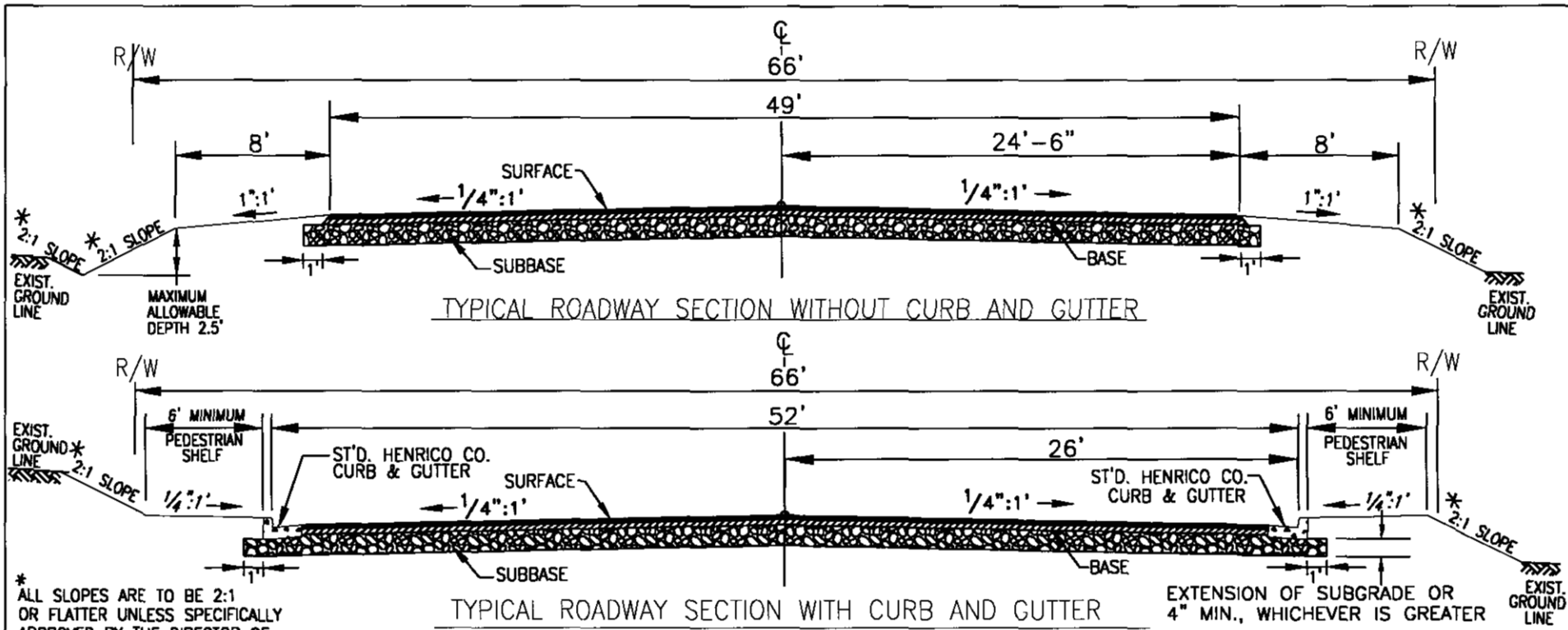
## TYPICAL SECTION - CLASSIFICATION VI

(3001-8000 VPD)

County of Henrico  
Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-6.DWG



\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
8" AGGREGATE SUBBASE MATERIAL	5" ASPHALT BASE COURSE	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
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4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.

## TYPICAL SECTION - CLASSIFICATION VII (8001-10000 VPD)

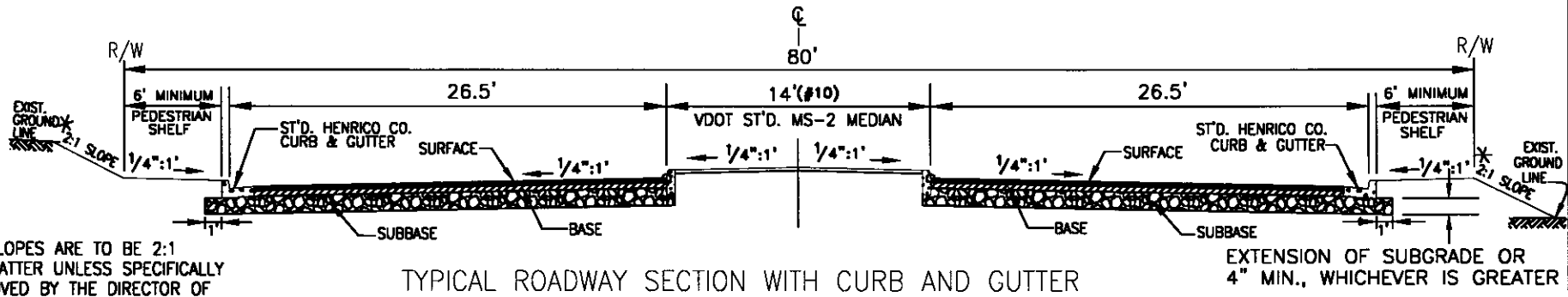
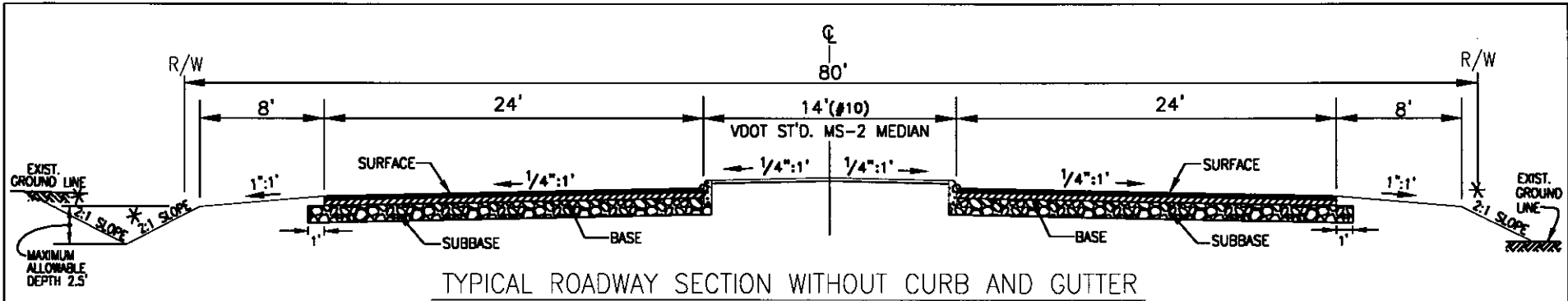
County of Henrico  
Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-7.DWG







\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
11" AGGREGATE SUBBASE MATERIAL	6" ASPHALT BASE COURSE	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.

5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.
9. SOLID CONCRETE MEDIAN, ST'D. MS-1 REQUIRED WHERE THE MEDIAN WIDTH IS 6'-0" OR LESS.

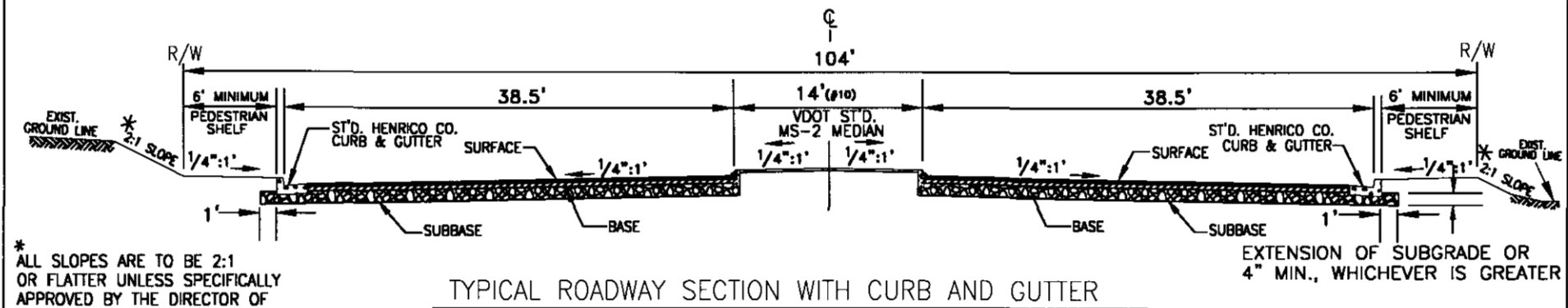
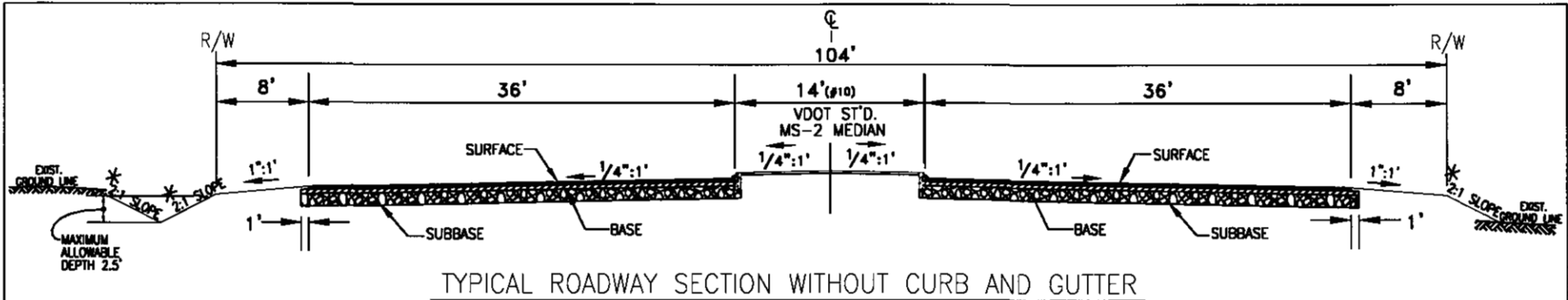
## TYPICAL SECTION - CLASSIFICATION VIII (10,001- 30,000 VPD)

County of Henrico  
Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-8.DWG





\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
***SPECIAL DESIGN***	***SPECIAL DESIGN***	***SPECIAL DESIGN***

5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.
9. SOLID MEDIAN ST'D. MS-1, REQUIRED WHERE THE MEDIAN WIDTH IS 6'-0" OR LESS.

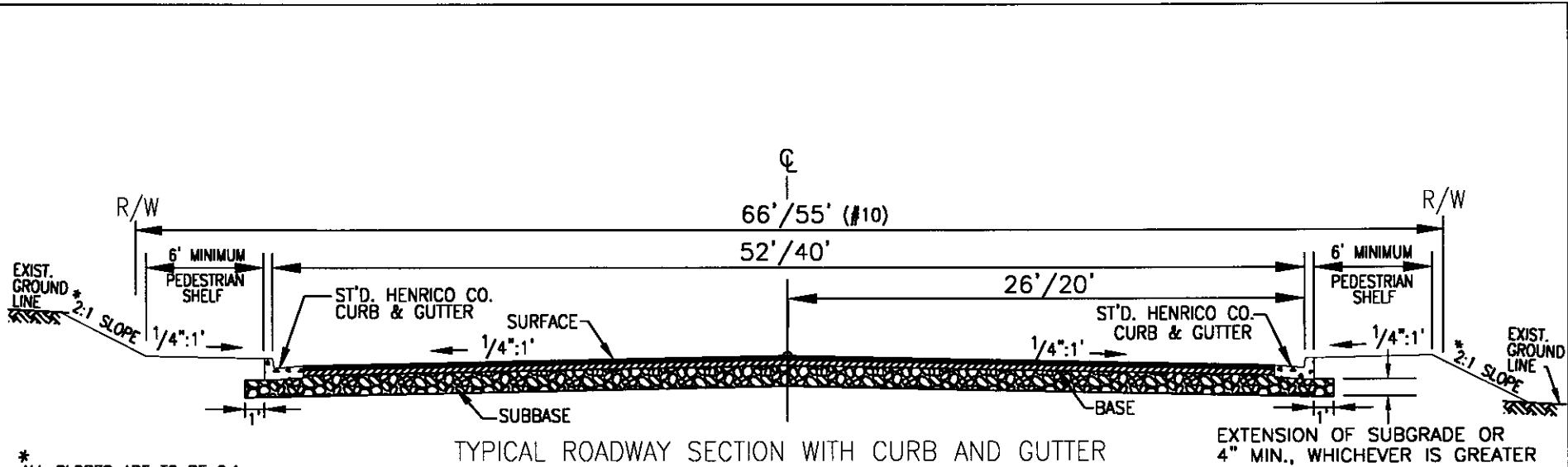
1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.

**TYPICAL SECTION - CLASSIFICATION IX**  
**(30,001 + VPD)**  
 County of Henrico  
 Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-9.DWG





\* ALL SLOPES ARE TO BE 2:1 OR FLATTER UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

MINIMUM PAVEMENT DESIGN REQUIREMENT		
SUBBASE	BASE	SURFACE
11" AGGREGATE SUBBASE MATERIAL	6" ASPHALT BASE COURSE	2" ASPHALT SURFACE COURSE

1. THE SHOULDER WIDTH (NON CURB AND GUTTER SECTION) OR PEDESTRIAN SHELF (CURB AND GUTTER SECTION) WILL BE REQUIRED TO BE EXTENDED BEYOND THE RIGHT-OF-WAY, WITH A PERMANENT EASEMENT PROVIDED, TO ACCOMMODATE THE INSTALLATION OF GUARDRAIL, WHERE NEEDED.
2. THE PAVEMENT DEPTHS ARE MINIMUM COMPACTED DEPTHS.
3. THE PAVEMENT DESIGN REQUIRED IS BASED ON A MINIMUM CBR VALUE OF 10. INCREASES TO THE DESIGN MAY BE REQUIRED BASED ON SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FINAL PAVEMENT DESIGNS MUST BE APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
4. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT SPECIFICATIONS AND THE REQUIREMENTS OF THIS MANUAL.
5. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS, EXCEPT WHERE COUNTY STANDARDS ARE APPLICABLE.
6. IF AN IRRIGATION SYSTEM IS PROPOSED WITHIN THE RIGHT-OF-WAY LIMITS, AN UNDERDRAIN SYSTEM MUST BE PROVIDED ADJACENT TO THE CURB AND GUTTER. A MAINTENANCE AGREEMENT MUST BE PROVIDED BETWEEN THE DEVELOPER AND THE COUNTY OF HENRICO.
7. A UNIFORM CROSS SECTION WIDTH AND PAVEMENT DESIGN ARE REQUIRED FOR ALL ROADWAYS.
8. ALL ROADSIDE DITCHES SHALL BE SEEDED AND HAVE A PERMANENT STAND OF GRASS AS A MINIMUM. WHERE THE 10-YEAR DESIGN VELOCITY EXCEEDS FOUR (4) FEET PER SECOND, JUTE MESH OR OTHER CHANNEL LINING MAY BE INSTALLED. IF THE 10-YEAR DESIGN VELOCITY EXCEEDS SEVEN (7) FEET PER SECOND, THE ROADSIDE DITCH MAY BE LINED WITH EITHER RIPRAP OR CONCRETE. ALTERNATE CHANNEL LININGS MAY BE ACCEPTABLE BASED UPON SOIL SAMPLES AND CERTIFIED DESIGN BY A LICENSED PROFESSIONAL ENGINEER.
9. A RIGHT-OF-WAY OF SIXTY SIX FEET SHALL BE USED ON THROUGH STREETS, CONNECTORS TO ARTERIALS OR ROADS PROVIDING DIRECT PUBLIC ACCESS. A FIFTY FIVE FOOT RIGHT-OF-WAY MAYBE USED ON CUL-DE-SACS, NON-THROUGH ROADS OR INTERNAL CONNECTOR ROADWAYS.

# TYPICAL SECTION COMMERCIAL/INDUSTRIAL DEVELOPMENT

County of Henrico  
Department of Public Works

JANUARY 1, 2002

HENTYPSEC-CL-COMM.DWG

