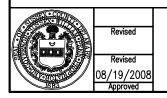
SUSSEX COUNTY, DELAWARE PRIVATE ROAD STANDARD DETAILS



AUGUST 19, 2008



Sussex County, Delaware Engineering Department

Approved: Michael & 120

Cover

Detail

R - 0.01

Design Criteria

| R-1.01 | General Notes |
|--------|-----------------|
| R-1.02 | Definitions |
| R-1.03 | Design Criteria |

Streets

R-2.13

| R-2.01 | Type I Residential Street; Open Drainage |
|--------|--|
| R-2.02 | Type I Residential Street; Closed Drainage |
| R-2.03 | Type I Residential Alley |
| R-2.04 | Type II Residential Street; Open Drainage |
| R-2.05 | Type II Residential Street; Closed Drainage |
| R-2.06 | Type II Residential Boulevard; Closed Drainage |
| R-2.07 | Type III Residential/Commercial/Industrial/Service or Frontage Street; Open Drainage |
| R-2.08 | Type III Residential/Commercial/Industrial/Service or Frontage Street; Closed Drainage |
| R-2.09 | Typical Residential Intersection with Perpendicular Curb Ramps |
| R-2.10 | Typical Residential Intersection with Diagonal Curb Ramps |
| R-2.11 | Intersection Sight Distance & Clear Zone Triangles |
| R-2.12 | On—Street Head—In Parking Layout |

Single-access Streets

| R-3.01 | Cul—De—Sac Without Island |
|--------|-----------------------------------|
| R-3.02 | Cul-De-Sac Eyebrow Without Island |
| R-3.03 | Cul—De—Sac With Island |
| R-3.04 | Cul-De-Sac Eyebrow With Island |
| R-3.05 | Tee Turn-Arounds (1 of 2) |
| R-3.06 | Tee Turn-Arounds (2 of 2) |
| R-3.07 | Barricade |

Residential Driveways

R-4.01 Residential Driveway Entrance; Open Drainage R-4.02 Residential Driveway Entrance; Closed Drainage

On-Street Back-In Parking Layout

Pedestrian & Bicycle Features

| R-5.01 | Concrete Sidewalk |
|--------|----------------------------------|
| R-5.02 | Shared-Use Path |
| R-5.03 | Shared-Use Path Intersection |
| R-5.04 | Typical Bike Lane Cross Sections |

Street Landscape

R-6.01 Street Tree Layout R-6.02 Street Tree List



Sussex County, Delaware Engineering Department

Approved: Michael 4 200 Sussex County Enginee()

Table of Contents

Detail

R - 0.02

GENERAL NOTES:

- 1. THESE STANDARDS HAVE BEEN ADOPTED PURSUANT TO ARTICLE 99 OF THE SUSSEX COUNTY CODE AND SET FORTH FOR THE DESIGN AND CONSTRUCTION OF ALL NEW SUBDIVISION ROADS WITHIN SUSSEX COUNTY, DELAWARE. AS SUCH, THESE STANDARDS SHALL APPLY TO ALL NEW SUBDIVISION ROADS.
- 2. THESE SUBDIVISION ROAD STANDARDS INCORPORATE DESIGN ELEMENTS WHICH ARE ENCOURAGED, BUT NOT REQUIRED BY THE COUNTY. SUCH ELEMENTS INCLUDE SIDEWALKS, RESIDENTIAL BOULEVARDS, AND BIKE PATHS. THESE STANDARDS PROVIDE DESIGN GUIDANCE IN THE EVENT SUCH ITEMS ARE REQUIRED BY THE COUNTY OR ARE USED BY THE DEVELOPER.
- 3. ENTRANCES FROM DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) ROADS ARE NOT COVERED UNDER THESE STANDARDS AND SHALL BE DESIGNED, APPROVED AND CONSTRUCTED IN ACCORDANCE WITH DELDOT STANDARDS. REFER TO THE DELDOT PUBLICATION "STANDARDS AND REGULATIONS FOR SUBDIVISION STREETS AND STATE HIGHWAY ACCESS" FOR MORE INFORMATION.
- 4. ALL MATERIALS REFERENCED WITHIN THESE STANDARDS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS (YEAR 2001 OR LATEST REVISION THEREOF).
- 5. ALL GRADED AGGREGATE BASE COURSE (GABC) SHALL BE TYPE B AS SPECIFIED IN SECTION 821 OF DELDOT'S STANDARD SPECIFICATIONS. ALL GABC AND APPROVED SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 6. ALL TYPES OF P.C.C. CURB AND INTEGRAL P.C.C. CURB & GUTTER ARE ACCEPTABLE AS SHOWN ON DEL DOT'S STANDARD CONSTRUCTION DETAIL C-1. IF INTEGRAL P.C.C. CURB & GUTTER ARE USED, THE GUTTER SHALL NOT BE INCLUDED AS PART OF THE VEHICULAR TRAVEL LANE. ON TYPE II AND TYPE III STREETS, THE RIGHT-OF-WAY MUST BE EXTENDED AS NECESSARY IF INTEGRAL P.C.C. CURB & GUTTER ARE USED.
- 7. BICYCLE SHOULDERS SHALL BE DISTINGUISHED FROM BICYCLE LANES AND SHALL CONSIST OF A 4' EXTENSION OF THE VEHICLE TRAVEL WAY. BICYCLE SHOULDERS DO NOT REQUIRE STRIPING OR SIGNING. FOR BICYCLE LANE REQUIREMENTS REFER TO DETAIL R-5.04.

Revised

Revised

08/19/2008

Approved

Sussex County, Delaware Engineering Department

Sussex County Engine

Approved: Michael & 220

General Notes

Detail

R-1.01

DEFINITIONS:

- <u>ALLEY:</u> A STREET DEDICATED FOR PUBLIC USE WHICH PROVIDES SECONDARY ACCESS ALONG THE REAR LOT LINE OF ADJOINING PROPERTIES. ALLEYS ARE INTENDED TO ACCOMMODATE ACCESS TO PARCELS OR UNITS AND SERVICE DELIVERY SUCH AS TRASH COLLECTION, UTILITY SERVICES, AND FIRE PROTECTION.
- <u>AVERAGE DAILY TRIPS (ADT):</u> THE AVERAGE NUMBER OF VEHICULAR TRIPS MADE IN A 24-HOUR PERIOD.
- <u>BOULEVARD STREET:</u> TYPICALLY A COLLECTOR STREET WITH A LANDSCAPED MEDIAN WHICH DIVIDES OPPOSING TRAFFIC LANES.
- <u>CUL-DE-SAC STREET:</u> A SUBDIVISION STREET WITH A SINGLE POINT OF ACCESS WHICH TERMINATES AT A CIRCULAR PAVED TURN-AROUND.
- LANE: THE PORTION OF A ROADWAY FOR THE MOVEMENT OF A SINGLE LINE OF VEHICLES WHICH DOES NOT INCLUDE THE GUTTER OR SHOULDER OF THE ROADWAY.
- <u>PLANT STRIP:</u> THE PORTION OF THE RIGHT OF WAY DEDICATED TO VEGETATION OR TREE PLANTING.
- <u>SERVICE OR FRONTAGE ROAD:</u> ADJACENT TO A LIMITED ACCESS ARTERIAL ROADWAY OR HIGHWAY, WHICH IS INTENDED TO PROVIDE ACCESS TO ADJOINING PROPERTIES CLOSE IN PROXIMITY.
- <u>SHARED-USE PATH:</u> A PATH AND RIGHT-OF-WAY PROVIDED FOR NON-MOTORIZED TRAFFIC (I.E. PEDESTRIANS AND BICYCLES).
- <u>SIDEWALK:</u> PAVED PEDESTRIAN PATHWAYS INSTALLED ALONG SUBDIVISION STREET FRONTAGES.
- <u>STOPPING SIGHT DISTANCE:</u> THE DISTANCE REQUIRED BY A DRIVER OF A VEHICLE, TRAVELING AT A GIVEN SPEED, TO BRING THE VEHICLE TO A STOP AFTER AN OBJECT ON A ROAD BECOMES VISIBLE. IT INCLUDES THE DISTANCE TRAVELED DURING DRIVER PERCEPTION AND REACTION TIMES AND THE VEHICLE BREAKING DISTANCE.
- STREET: A PUBLIC OR PRIVATE MEANS OF PRINCIPAL VEHICULAR ACCESS TO PARCELS OR UNITS.

Revised

Revised

08/19/2008

Approved

Sussex County, Delaware Engineering Department

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Definitions

Detail

STREET DESIGN DATA

| STREET CLASSIFICATION | AVERAGE DAILY TRIPS (ADT'S) | MAXIMUM DESIGN SPEED | STOPPING SIGHT DISTANCE | INTERSECTION | RIGHT TURN INTERSECTION SIGHT DISTANCE | ALLOWABLE GRADE | MINIMUM HORIZONTAL & RADII |
|--------------------------|-----------------------------------|----------------------------|-------------------------------|--------------|---|--------------------|----------------------------------|
| TYPE I | <u>≤</u> 500 | 25 MPH | 155 FT | 280 FT | 240 FT | 0.1% - 5% | 150 FT |
| TYPE II | 501 – 3000 | 30 MPH | 200 FT | 335 FT | 290 FT | 0.1% - 5% | 300 FT |
| TYPE III | > 3000 | 35 MPH | 250 FT | 390 FT | 335 FT | 0.1% - 5% | 500 FT |

MINIMUM INTERSECTION DESIGN RADII

| INTERSECTIN | EDGE OF PAVEMENT RADII | |
|-------------|---------------------------|-------------------------------|
| TYPE I | TYPE I | 15 FT |
| TYPE I | TYPE II | 20 FT |
| TYPE II | TYPE II TYPE II | |
| TYPE II | TYPE III | 25 FT |
| TYPE III | TYPE III | SET TO MEET DESIGN VEHICLE |

PAVEMENT DESIGN DATA

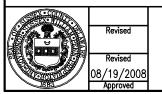
| AVERAGE DAILY TRIPS (ADT'S) | PAVEMENT SECTION | | | |
|--|---|--|--|--|
| TYPE I STREET | 1-¼" TYPE C HOT MIX SURFACE COURSE 1-¾" TYPE C HOT MIX SURFACE COURSE 6" GRADED AGGREGATE BASE COURSE APPROVED SUBGRADE | | | |
| TYPE II STREET | 1-½" TYPE C HOT MIX SURFACE COURSE 2-½" TYPE B HOT MIX BASE COURSE 6" GRADED AGGREGATE BASE COURSE APPROVED SUBGRADE | | | |
| TYPE III RESIDENTIAL/ COMMERCIAL/ INDUSTRIAL/ SERVICE OR FRONTAGE STREET | 1-½" TYPE C HOT MIX SURFACE COURSE 3" TYPE B HOT MIX BASE COURSE 8" GRADED AGGREGATE BASE COURSE APPROVED SUBGRADE | | | |

TRIP GENERATION DATA FOR RESIDENTIAL USES

| HOUSING TYPE | ADT'S/UNIT |
|-------------------------------|------------|
| SINGLE-FAMILY DETACHED | 9.6 |
| RESIDENTIAL TOWNHOUSE | 5.9 |
| APARTMENT BUILDING ≤ 42' | 6.6 |
| APARTMENT BUILDING > 42' | 4.2 |
| MANUFACTURED HOME | 5.0 |
| RETIREMENT COMMUNITY | |
| DETACHED HOUSING | 3.7 |
| ATTACHED HOUSING | 3.5 |
| ASSISTED LIVING | 2.7 |
| CONTINUOUS-CARE VILLAGE | 2.8 |
| SINGLE-FAMILY DETACHED IN RPC | 7.4 |

NOTES:

- 1. REFER TO DETAIL R-2.11 FOR A DIAGRAM OF LEFT TURN AND RIGHT TURN INTERSECTION SIGHT DISTANCES AND CLEAR ZONES. FOR ADDITIONAL INFORMATION ON SIGHT DISTANCE, REFER TO CHAPTER 3 OF THE DEL DOT ROAD DESIGN MANUAL.
- 2. TRIP GENERATION DATA IS BASED ON VALUES PROVIDED IN THE INSTITUTE OF TRANSPORTATION ENGINEERS' TRIP GENERATION HANDBOOK. REFER TO THIS SOURCE FOR ADDITIONAL INFORMATION IF COMMERCIAL AND INDUSTRIAL DEVELOPMENTS ARE PLANNED.

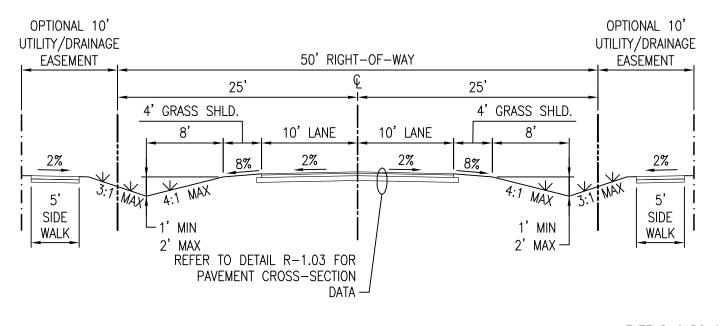


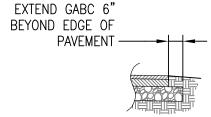
Sussex County, Delaware Engineering Department

Design Criteria

R-1.03

Detail





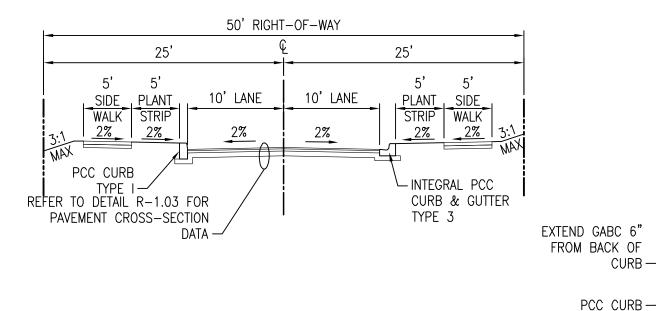
- 1. PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 4. SWALE DEPTH MAY BE INCREASED TO 2.5' AT ROADWAY CROSSINGS TO ACHIEVE ADEQUATE CULVERT COVER.



Sussex County, Delaware Engineering Department

d: Michael & January Sussex County Engineer

Type I Residential Street Open Drainage (ADT ≤ 500) Detail



- PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. ROADWAY WIDTH SHALL BE WIDENED IF ON-STREET PARKING IS DESIRED. REFER TO DETAILS R-2.12 AND R-2.13 FOR ON-STREET PARKING OPTIONS.
- SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.

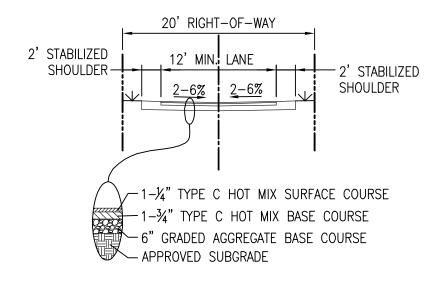


Sussex County, Delaware Engineering Department

Type I Residential Street Closed Drainage $(ADT \leq 500)$

Detail

PROVIDE 6" GABC UNDER CURB



- 1. PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 3. CURBS SHALL NOT BE PLACED ALONG ALLEYS.
- 4. 2' STABILIZED SHOULDERS TO BE 8" GRADED AGGREGATE BASE COURSE.
- 5. A MINIMUM LONGITUDINAL SLOPE OF 0.5% SHALL BE USED.
- 6. INLETS MAY BE PLACED ALONG THE CENTERLINE OF THE ALLEY AS NECESSARY.

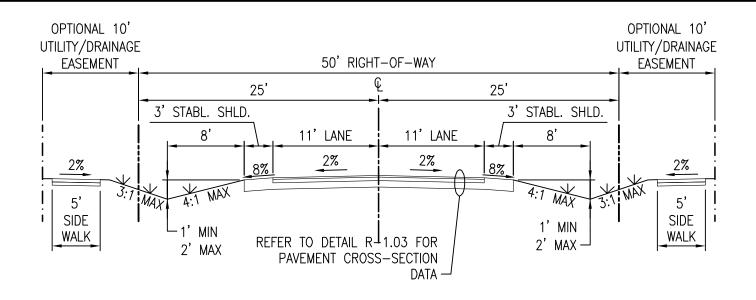


Sussex County, Delaware Engineering Department

oroved: Michael 4 2/20
Sussex County Enginee(

Type I Residential Alley

Detail

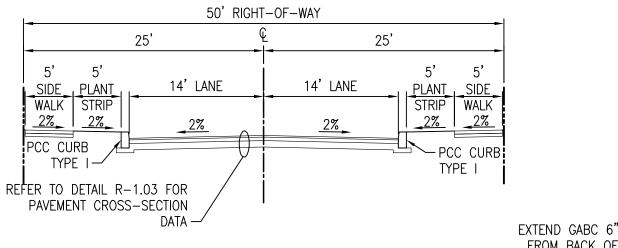


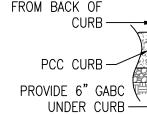
- PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD
- 4. 3' STABILIZED SHOULDERS TO BE 8" GRADED AGGREGATE BASE COURSE.
- 5. CROSSWALKS SHALL BE INCLUDED AT ALL SIGNALIZED INTERSECTIONS AND WHEN THE TRAFFIC VOLUME EXCEEDS 2,000 ADT'S.
- 6. SWALE DEPTH MAY BE INCREASED TO 2.5' AT ROADWAY CROSSINGS TO ACHIEVE ADEQUATE CULVERT COVER.

| | Revised | |
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| | Revised | |
| | 08/19/2008 | |
| 683 | Approved | |

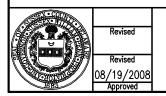
Sussex County, Delaware Engineering Department

Type II Residential Street Open Drainage (500 < ADT ≤ 3,000) Detail





- PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 4. ROADWAY WIDTH IS SUFFICIENT TO ACCOMMODATE ONE 8' LANE OF PARALLEL PARKING OR TWO 4' BICYCLE SHOULDERS. REFER TO DETAILS R-2.12 AND R-2.13 FOR ON-STREET PARKING OPTIONS.
- CROSSWALKS SHALL BE INCLUDED AT ALL SIGNALIZED INTERSECTIONS AND WHEN THE TRAFFIC VOLUME EXCEEDS 2,000
 ADT'S.
- 6. IF INTEGRAL P.C.C. CURB & GUTTER ARE USED THE GUTTER SHALL NOT BE INCLUDED AS PART OF THE 14' TRAVEL LANE AND THE RIGHT-OF-WAY WIDTH SHALL BE EXTENDED AS NECESSARY.

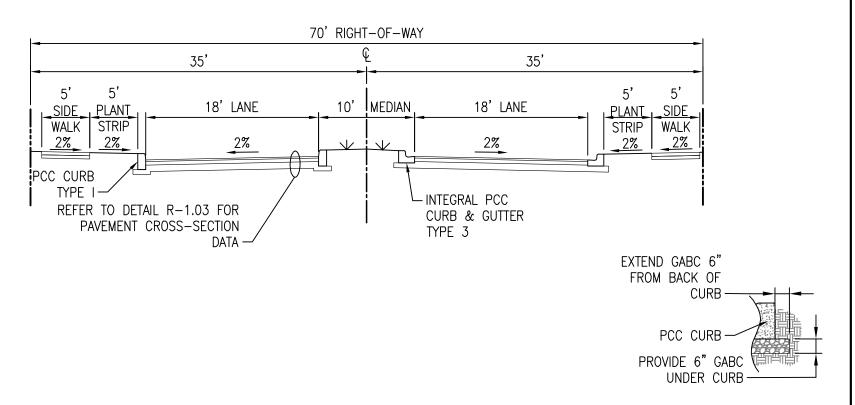


Sussex County, Delaware Engineering Department

Michael & III

Type II Residential Street
Closed Drainage
(500 < ADT < 3,000)

Detail



- 1. PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 4. EACH 18' LANE IS SUFFICIENT TO ACCOMMODATE ONE 8' LANE OF PARALLEL PARKING. REFER TO DETAILS R-2.12 AND R-2.13 FOR ON-STREET PARKING OPTIONS.
- 5. CROSSWALKS SHALL BE INCLUDED AT ALL SIGNALIZED INTERSECTIONS AND WHEN THE TRAFFIC VOLUME EXCEEDS 2,000 ADT'S.
- 6. THE CROSS—SECTION SHOWN IS FOR RESIDENTIAL BOULEVARDS NOT DIVIDED ENTRY/ACCESS ROADS. DIVIDED ENTRY/ACCESS ROADS LESS THAN 300 FEET IN LENGTH SHALL NOT INCLUDE SPACE FOR ON—STREET PARKING.

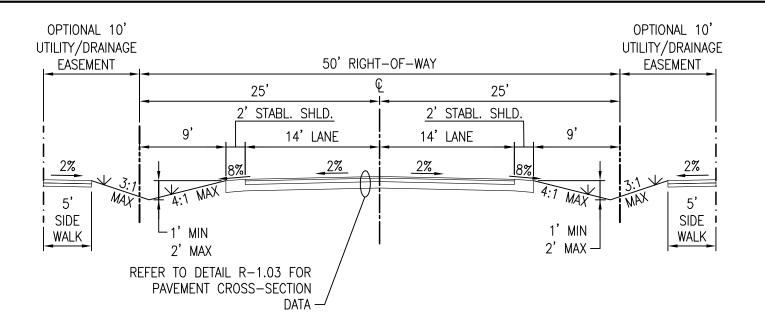


Sussex County, Delaware Engineering Department

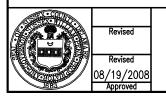
Sussex County Engine

Approved: Michael

Type II Residential Boulevard Closed Drainage (500 < ADT ≤ 3,000) Detail



- PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 3' STABILIZED SHOULDERS TO BE 8" GRADED AGGREGATE BASE COURSE. 3.
- SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- SWALE DEPTH MAY BE INCREASED TO 2.5' AT ROADWAY CROSSINGS TO ACHIEVE ADEQUATE CULVERT COVER.
- ROADWAY WIDTH IS SUFFICIENT TO ACCOMODATE TWO 4' BICYCLE SHOULDERS.



Sussex County, Delaware Engineering Department

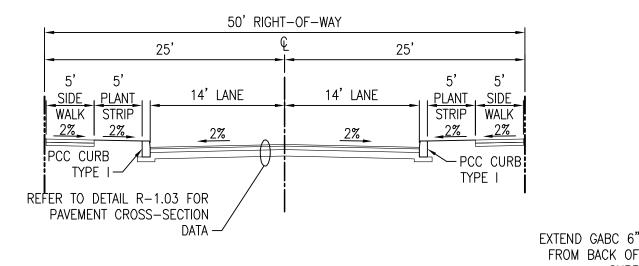
Sussex County Engine

Type III Residential/Commercial/Industrial/Service or Frontage Street

Open Drainage

(ADT > 3,000)

Detail



- PROVIDE 4" OF TOPSOIL COVERED WITH SEED AND MULCH ON PROPOSED GRASS AREAS.
- 2. SIDEWALKS ARE NOT REQUIRED UNLESS SPECIFIED BY THE COUNTY. REFER TO DETAIL R-5.01 FOR SIDEWALK INFORMATION.
- 3. SUBBASE AND SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557, MODIFIED PROCTOR METHOD.
- 4. ROADWAY WIDTH IS SUFFICIENT TO ACCOMODATE TWO 4' BICYCLE SHOULDERS.
- 5. ROADWAY WIDTH SHALL BE WIDENED IF ON-STREET PARKING IS DESIRED. REFER TO DETAILS R-2.12 AND R-2.13 FOR ON-STREET PARKING OPTIONS.
- 6. IF INTEGRAL P.C.C. CURB & GUTTER ARE USED THE GUTTER SHALL NOT BE INCLUDED AS PART OF THE 14' TRAVEL LANE AND THE RIGHT-OF-WAY WIDTH SHALL BE EXTENDED AS NECESSARY.



Sussex County, Delaware Engineering Department

Sussex County Engine

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Type III Residential/Commercial/Industrial/Service or Frontage Street

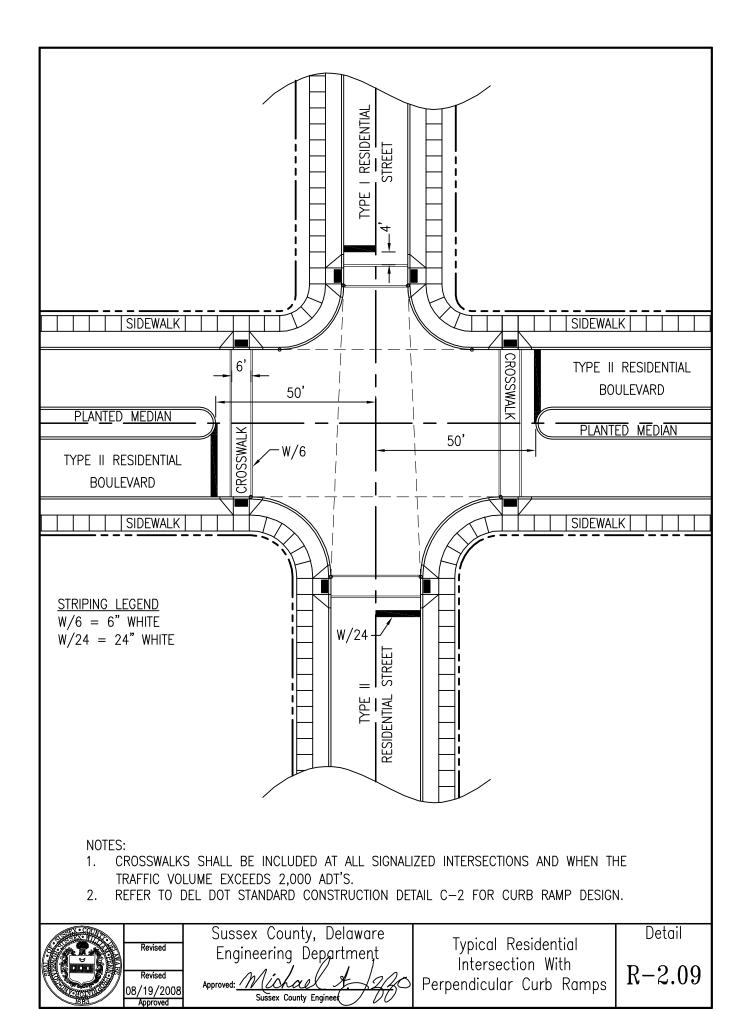
Closed Drainage

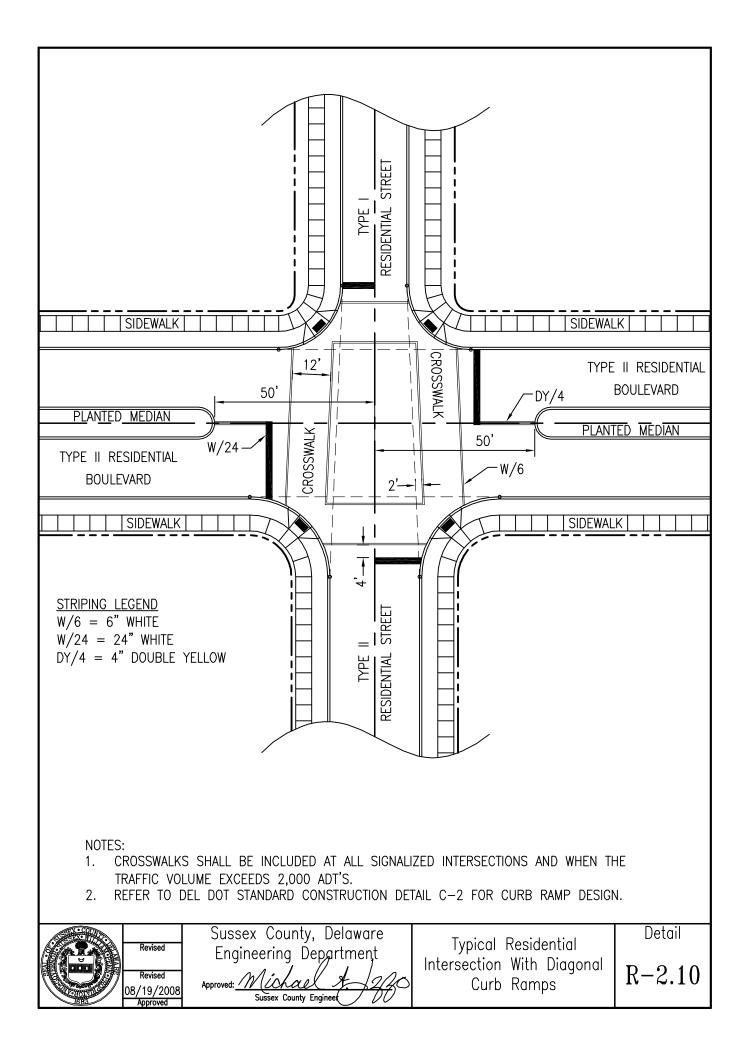
(ADT > 3,000)

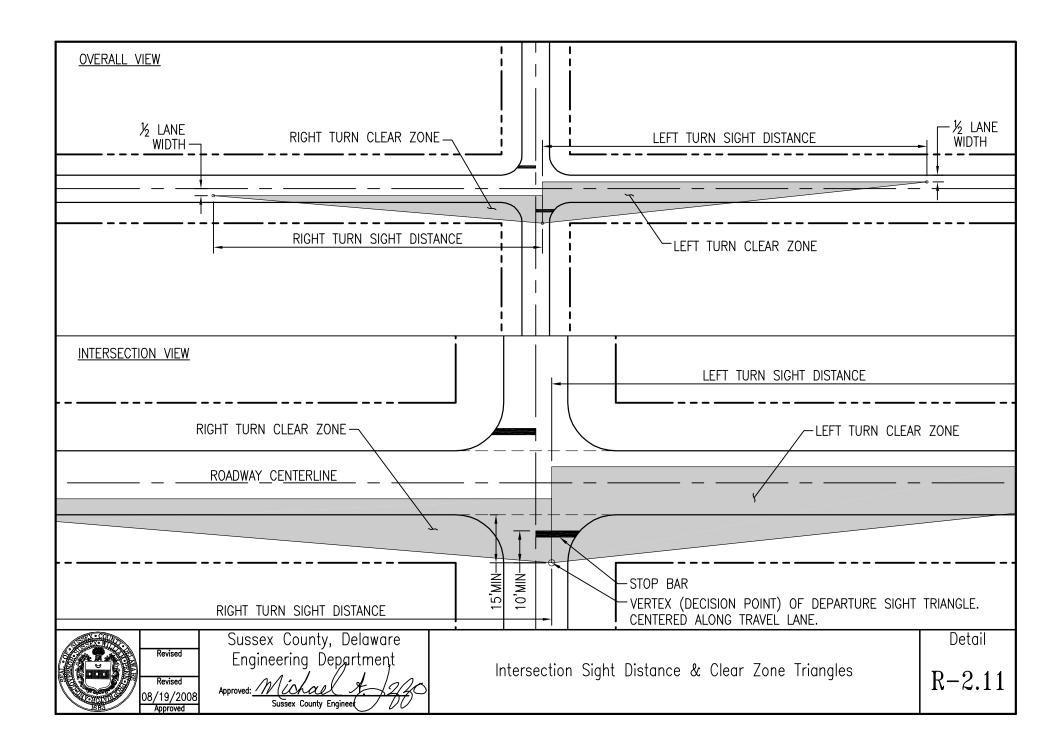
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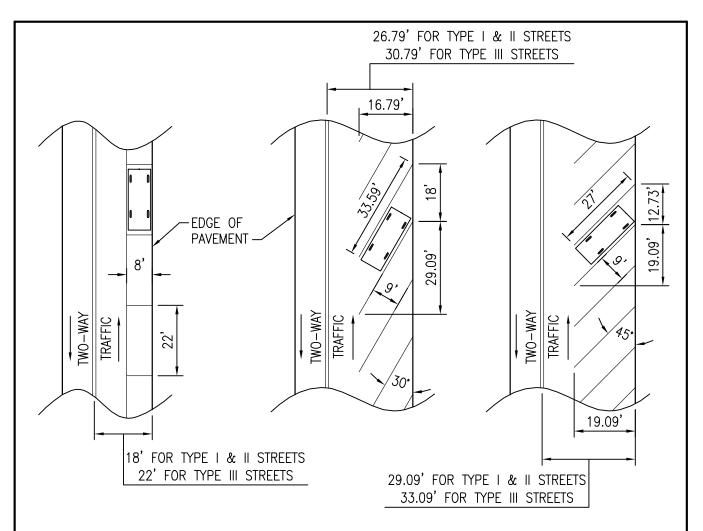
CURB

PCC CURB —
PROVIDE 6" GABC
UNDER CURB



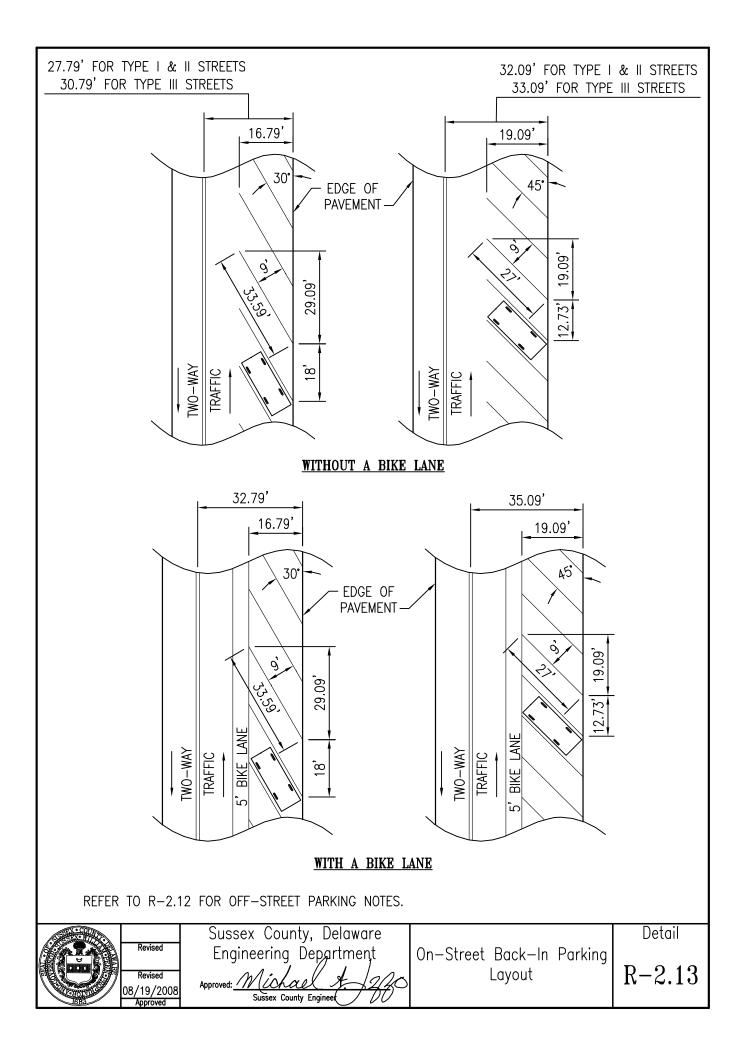


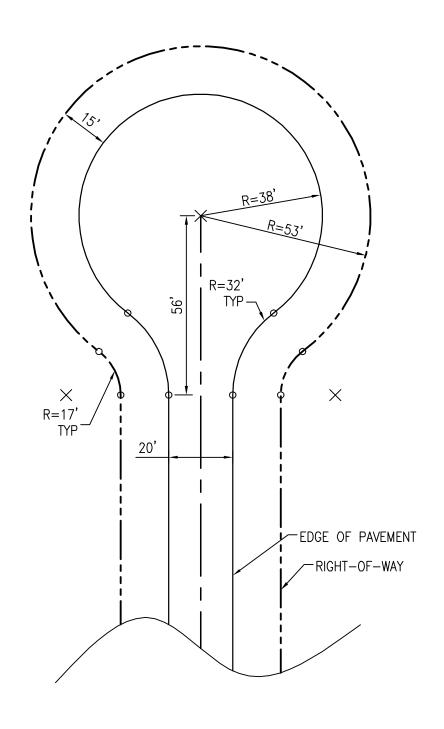




- 1. SIDEWALKS MAY BE OFFSET 3' FROM THE BACK OF CURB WHEN ON-STREET PARKING IS PROVIDED
- 2. 45° SHALL BE THE MAXIMUM ALLOWABLE ANGLE FOR ON-STREET PARKING.
- 3. THE STALL LAYOUTS PROVIDED ARE ACCEPTABLE ON A SINGLE SIDE OR ON BOTH SIDES OF THE STREET.
- 4. RIGHT-OF-WAY WIDTHS SHALL BE ADJUSTED TO ACCOMMODATE ON-STREET PARKING.
- 5. ON-STREET PARKING SHALL BE PROHIBITED WITHIN THE FOLLOWING LOCATIONS:
 - A. 15' OF A FIRE HYDRANT.
 - B. 20' OF A TRAFFIC CONTROL DEVICE, SUCH AS A STOP SIGN OR TRAFFIC LIGHT.
 - C. 20' OF A CROSSWALK AT AN INTERSECTION.
 - D. 10' OF A CROSSWALK NOT AT AN INTERSECTION.
 - E. 50' OF A RAILROAD CROSSING.
 - F. 20' OF A FIRE STATION ENTRANCE.
 - G. 75' OF A FIRE STATION ON THE OPPOSITE SIDE OF THE STREET.
 - H. 10' OF A DRIVEWAY.
 - I. ADJACENT TO A SCHOOL.
 - J. IN AN ALLEY.
 - K. ON ANY BRIDGE OR ELEVATED STRUCTURE.
 - L. IN ANY AREA THAT PROHIBITS THE REQUIRED SIGHT DISTANCE FROM BEING ACHIEVED.

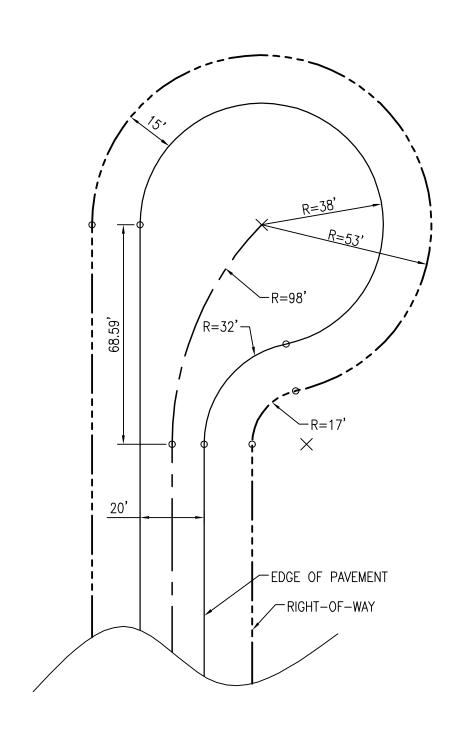






- 1. CUL-DE-SACS AND OTHER SINGLE-ACCESS STREETS ARE LIMITED TO SERVING NO MORE THAN 300 ADT'S ON ROADS NO LONGER THAN 1,000 FEET IN LENGTH.
- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE CUL-DE-SAC BULB.

| | J Sussex County, Delaware | | Detail |
|-----------|----------------------------------|----------------|-------------------|
| Revised | Engineering Department | Cul-De-Sac | |
| Revised | | Without Island | _ P_3 በ1 |
| 08/19/200 | Approved: Wichael 4. 12/20 | without Island | $\mid V_{-}$ 9.01 |
| 4pproved | Sussex County Engineer / // | | |



- 1. CUL-DE-SACS AND OTHER SINGLE-ACCESS STREETS ARE LIMITED TO SERVING NO MORE THAN 300 ADT'S ON ROADS NO LONGER THAN 1,000 FEET IN LENGTH.
- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE CUL-DE-SAC BULB.

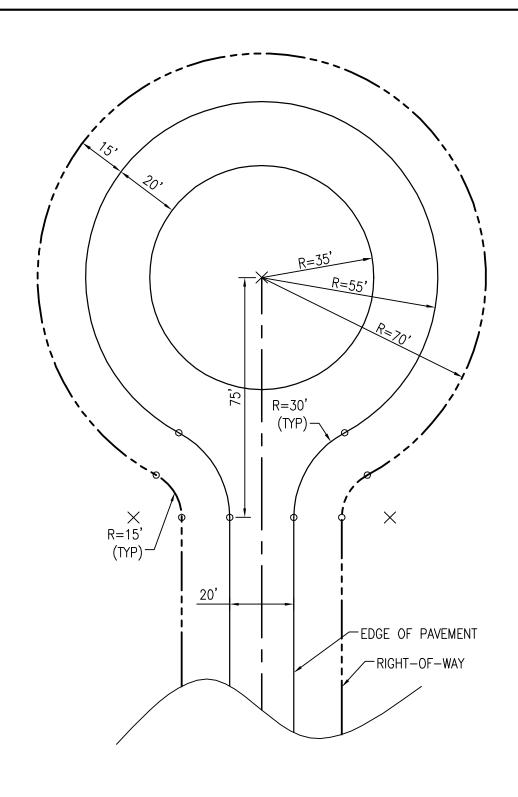


Sussex County, Delaware Engineering Department

Approved: Michael A 2/20
Sussex County Enginee(

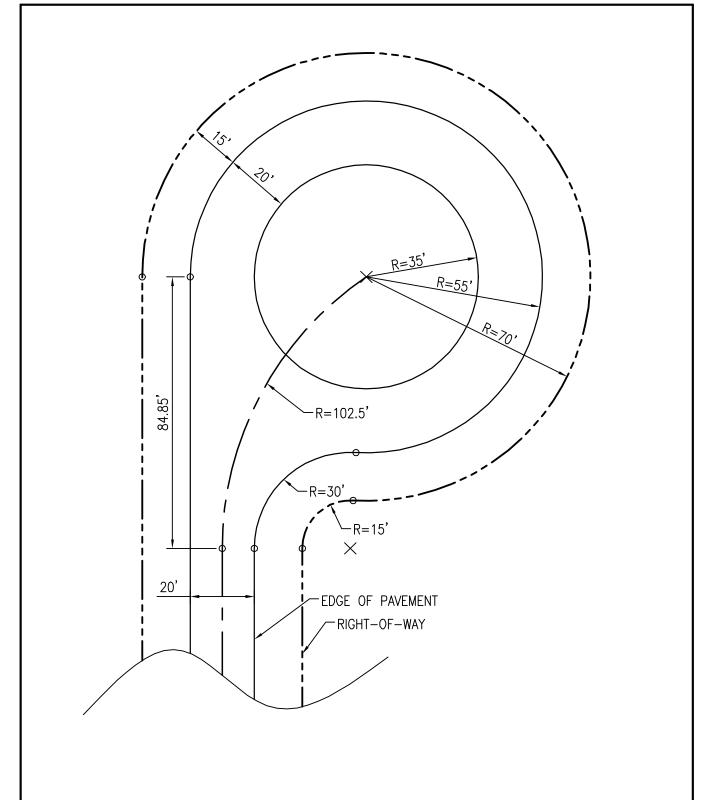
Cul-De-Sac Eyebrow Without Island Detail

R - 3.02



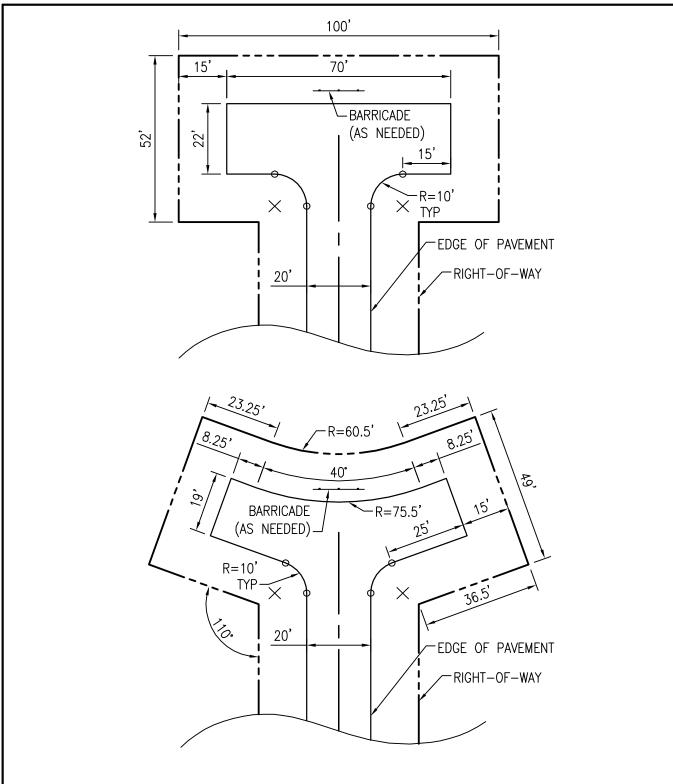
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- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE CUL-DE-SAC BULB.

| | Sussex County, Delaware | | Detail |
|------------|------------------------------|-------------|----------|
| Revised | Engineering Department | Cul-De-Sac | |
| Revised | mail / d laga | With Island | R - 3.03 |
| 08/19/2008 | Approved: Michael & 220 | With Island | 10 0.00 |
| Approved | Sussex County Engineer / /// | | |



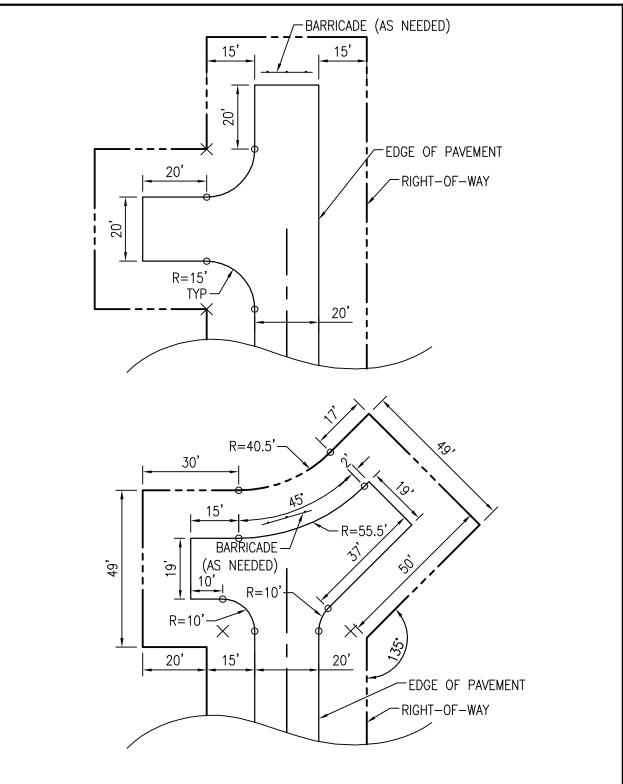
- 1. CUL-DE-SACS AND OTHER SINGLE-ACCESS STREETS ARE LIMITED TO SERVING NO MORE THAN 300 ADT'S ON ROADS NO LONGER THAN 1,000 FEET IN LENGTH.
- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE CUL-DE-SAC BULB.





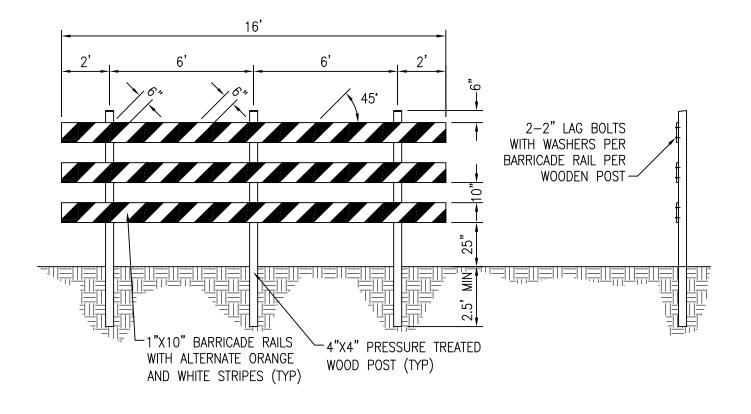
- 1. TEE TURN—AROUNDS ARE LIMITED TO SERVING NO MORE THAN 300 ADT'S ON ROADS NO LONGER THAN 1,000 FEET IN LENGTH.
- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE TEE TURN-AROUND HEAD.
- 3. BARRICADES ARE NOT NECESSARY UNLESS AN APPARENT SAFETY HAZARD EXISTS.





- 1. TEE TURN—AROUNDS ARE LIMITED TO SERVING NO MORE THAN 300 ADT'S ON ROADS NO LONGER THAN 1,000 FEET IN LENGTH.
- 2. ON-STREET PARKING IS PROHIBITED WITHIN THE TEE TURN-AROUND HEAD.
- 3. BARRICADES ARE NOT NECESSARY UNLESS AN APPARENT SAFETY HAZARD EXISTS.





NOTE: BARRICADES ARE NOT NECESSARY UNLESS AN APPARENT SAFETY HAZARD EXISTS.



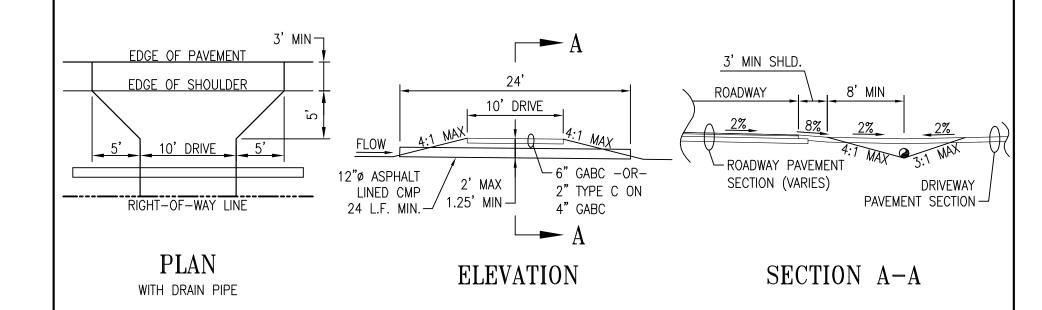
Sussex County, Delaware Engineering Department

proved: Michael A. 2230
Sussex County Enginee(

Barricade

Detail

R - 3.07



1. A 12"Ø CLASS III REINFORCED CONCRETE PIPE SHALL BE USED WHEN THE DIFFERENCE BETWEEN THE PIPE INVERT AND THE FINISHED GRADE IS LESS THAN 1.25' MEASURED ALONG THE CENTERLINE OF THE DRIVEWAY.

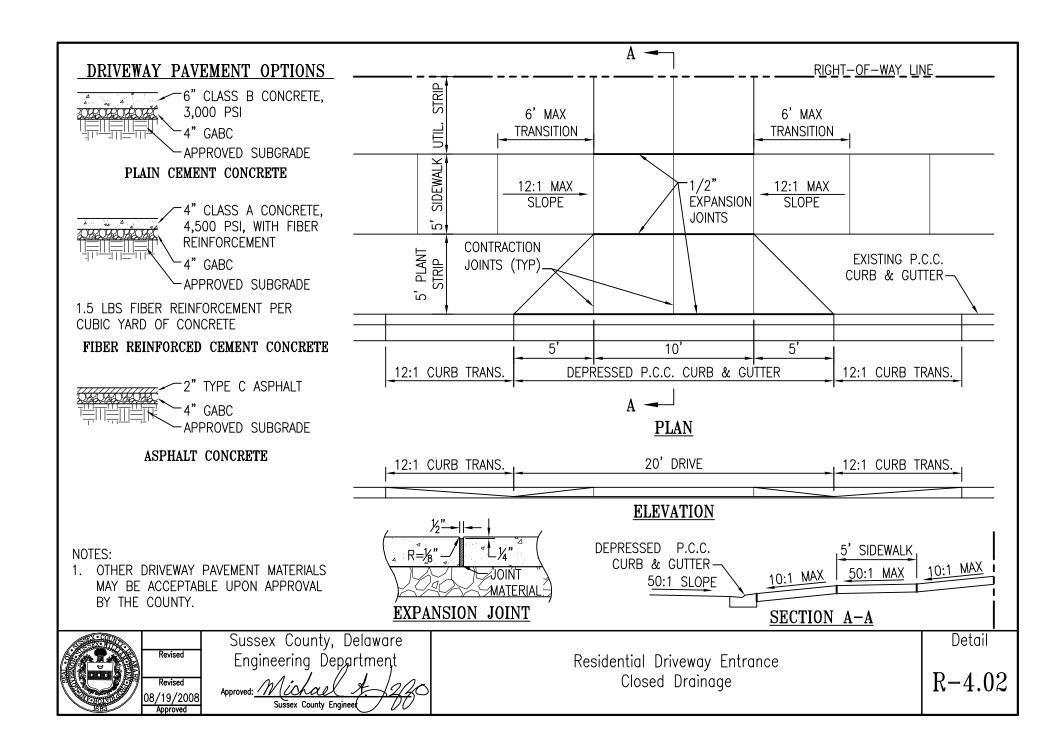


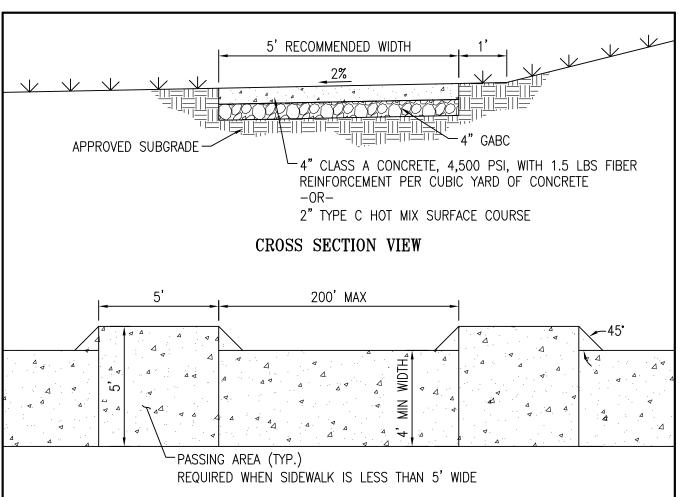
Sussex County, Delaware Engineering Department

pproved: Michael & 270
Sussex County Enginee(

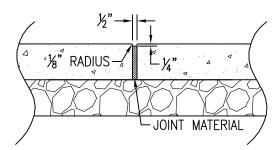
Residential Driveway Entrance Open Drainage Detail

R-4.01





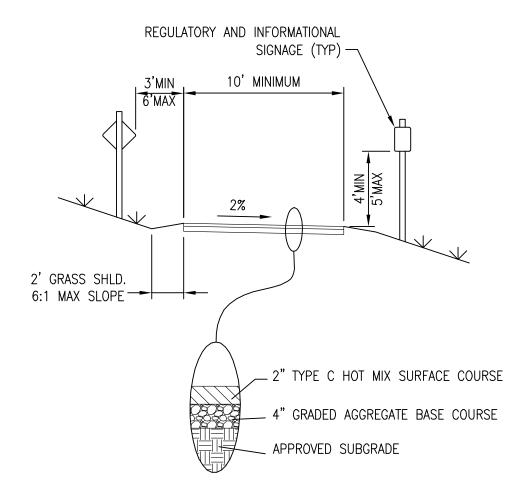
PLAN VIEW



EXPANSION JOINT

- 1. CONCRETE SIDEWALKS SHALL BE CONTINUOUS AND SHALL NOT BREAK OR STOP AT DRIVEWAY CROSSINGS.
- 2. CONCRETE SIDEWALKS SHALL BE MARKED INTO RECTANGULAR SLABS 5' LONG BY SCORING WITH APPROVED EDGING TOOLS.
- 3. EXPANSION JOINTS SHALL BE PLACED ACROSS CONCRETE SIDEWALKS NOT MORE THAN 20' APART.
- 4. WHEN A 5' WIDE SIDEWALK IS NOT POSSIBLE DUE TO SITE CONSTRAINTS, A 4' WIDE SIDEWALK MAY BE USED WITH 5'x5' PASSING AREAS SPACED AT 200' OR CLOSER INTERVALS. REFER TO THE LATEST ADA AND ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.





Revised

Revised

08/19/2008

Approved

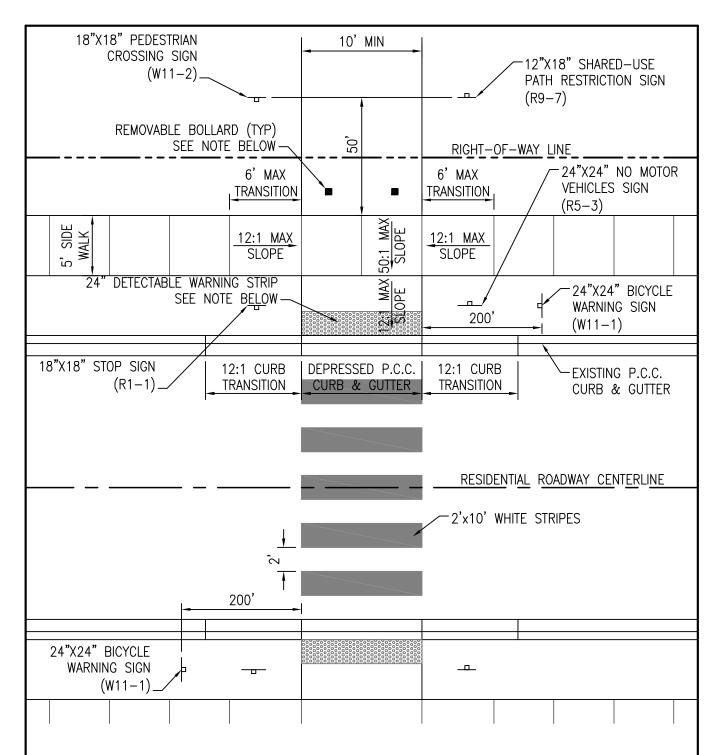
Sussex County, Delaware Engineering Department

Approved: Michael A 2/30
Sussex County Enginee

Shared-Use Path

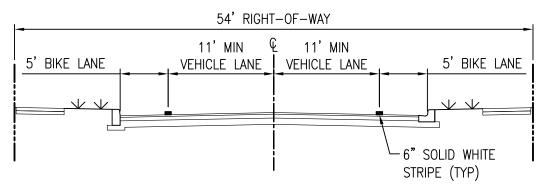
Detail

R-5.02

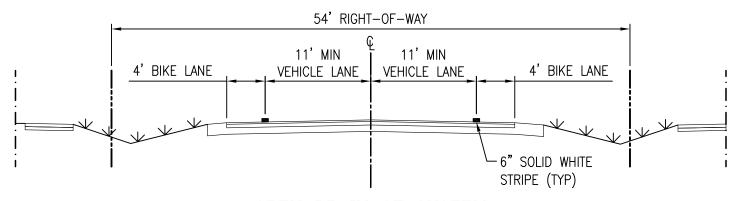


- 1. SIGN CODES PROVIDED IN PARENTHESIS REFER TO THE FHWA'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. SHARED-USE PATH SHALL CONTINUE THROUGH THE RIGHT-OF-WAY AT MINIMUM WIDTH OF 10' OR THE WIDTH USED OUTSIDE OF THE RIGHT-OF-WAY, WHICHEVER IS GREATER.
- 3. REFER TO DEL DOT'S STANDARD CONSTRUCTION DETAIL C-2 FOR TRUNCATED DOME DETECTABLE WARNING STRIP DESIGN.
- 4. REFER TO DEL DOT'S STANDARD CONSTRUCTION DETAIL M-3 FOR BOLLARD DESIGN INFORMATION.





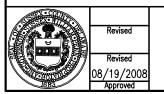
CLOSED DRAINAGE SYSTEM



OPEN DRAINAGE SYSTEM

NOTES:

- 1. BIKE LANES SHALL BE PROVIDED ON TYPE III ROADWAYS WHEN SIGNIFICANT BIKE TRAFFIC IS ANTICIPATED AND TRAFFIC VOLUME EXCEEDS 8,000 ADT'S.
- 2. PAVEMENT MARKING AND SIGNAGE SHALL BE PLACED IN ACCORDANCE WITH CHAPTER 9 OF THE FHWA'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



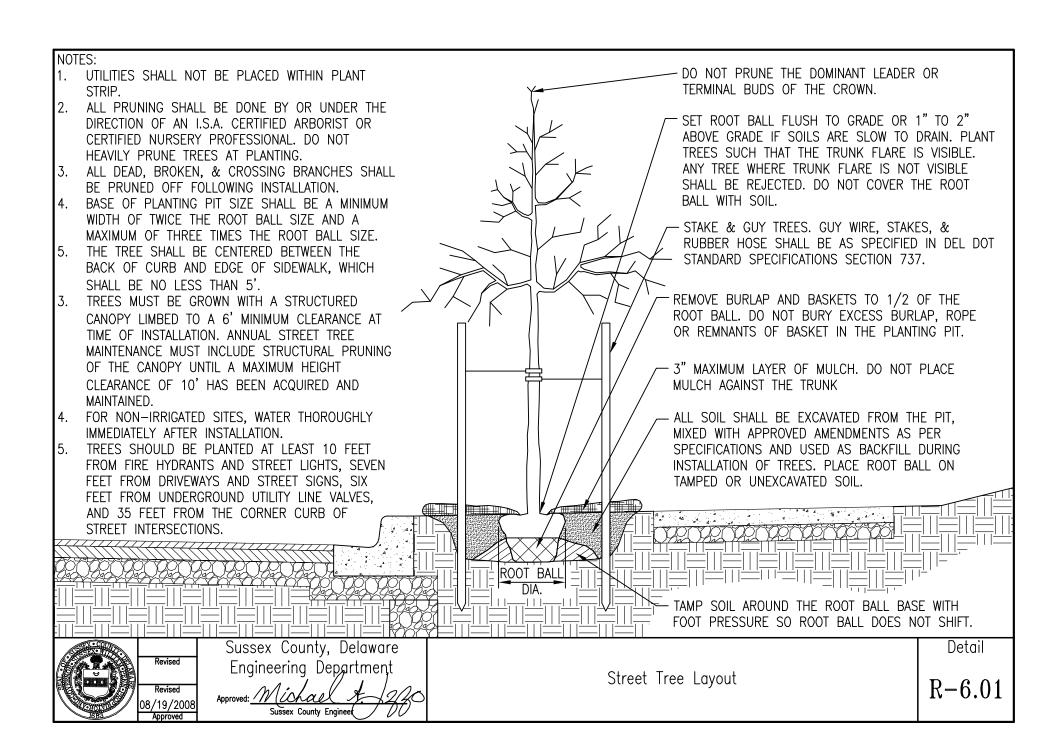
Sussex County, Delaware Engineering Department

Approved: Michael & January Sussex County Engineer

Typical Bike Lane Cross Sections

Detail

R-5.04



| SCIENTIFIC NAME | COMMON NAME | HEIGHT (FEET) | WIDTH (FEET) | USE UNDER POWER LINES | NOTES |
|------------------------------|---------------------------|------------------|-----------------|--------------------------|---|
| AMELANCHIER ARBOREA | DOWNY SERVICEBERRY | 15-25 | 10-20 | YES | WHITE FLOWERS FIRST IN SPRING, FRUIT AND ORANGE FALL COLOR |
| AMELANCHIER CANADENSIS | SHADBLOW | 6-20 | | YES | WHITE FLOWERS FIRST IN SPRING, FRUIT AND ORANGE FALL COLOR |
| AMELANCHIER X GRANDIFLORA | APPLE SERVICEBERRY | 15–25 | 10-20 | YES | WHITE FLOWERS FIRST IN SPRING, FRUIT AND ORANGE FALL COLOR |
| AMELANCHIER LAEVIS | ALLEGHENY SERVICEBERRY | 15-25 | 10-20 | YES | WHITE FLOWERS FIRST IN SPRING, FRUIT AND ORANGE FALL COLOR |
| CARPINUS CAROLINIANA | IRONWOOD | 20-30 | 20-30 | YES | SMOOTH BARK WITH CLEAN NEAT LEAVES |
| CERCIS CANADENSIS | EASTERN REDBUD | 20-35 | 20-35 | YES | EARLY PINKISH PURPLE COLORS |
| CHIONANTHUS VIRGINICUS | WHITE FRINGETREE | 25 | 25 | YES | WHITE FLEECY FLOWERS IN LATE SPRING |
| CORNUS FLORIDA | EASTERN FLOWERING DOGWOOD | 20-35 | 20-35 | YES | EARLY SPRING FLOWERS |
| CRATAEGUS VIRIDIS | GREEN HAWTHORN | 20-35 | 20-35 | YES | BRIGHT RED BERRIES THROUGHOUT WINTER |

- THE ABOVE LIST HAS BEEN ADOPTED FROM FIGURE 18 OF THE DEL DOT ROADSIDE VEGETATION CONCEPT AND PLANNING MANUAL. IT INCLUDES ONLY NATIVE TREE SPECIES, ADEQUATELY SIZED FOR PLANTING WITHIN A 5' STRIP ALONG A RESIDENTIAL ROADWAY.
- 2. THIS LIST IS NOT ALL—INCLUSIVE AND SHOULD ONLY BE USED AS A GUIDE FOR PLANTING STREET TREES. OTHER SPECIES MAY BE SPECIFIED TO ACCOMODATE THE PHYSICAL SETTING OF THE PROJECT.



Sussex County, Delaware
Engineering Department

Sussex County Enginee

Street Tree List

Detail

R - 6.02