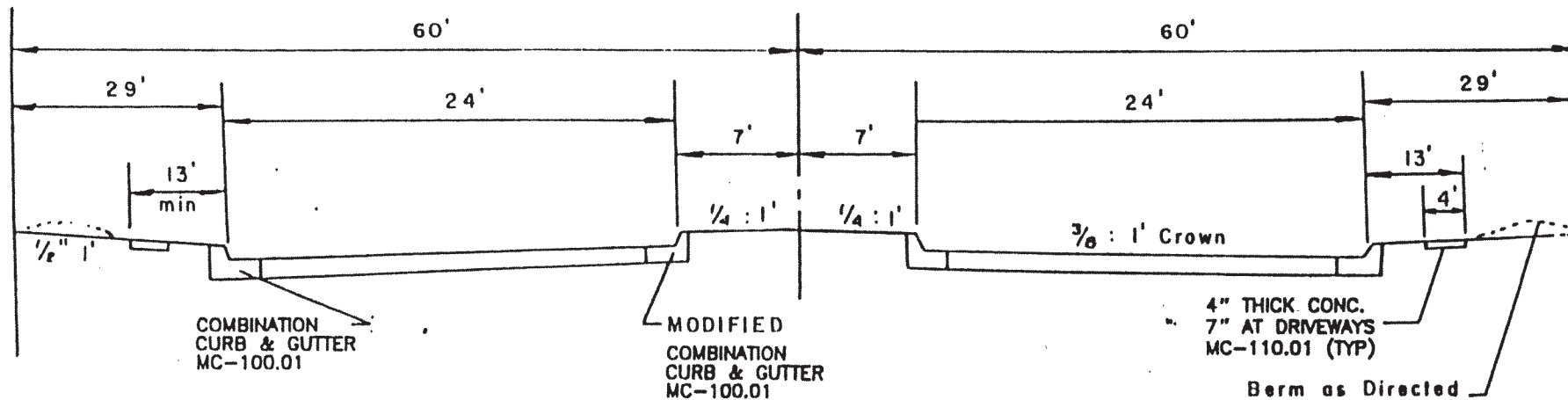


120' MINIMUM RIGHT OF WAY



ALL DENUDED AREA WITHIN RIGHT OF WAY TO BE SODDED

3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS
5" BITUMINOUS CONCRETE BASE COURSE
8" GRADED AGGREGATE BASE COURSE IN 2 - 4" LAYERS
APPROVED SUBGRADE

3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS
9" BITUMINOUS CONCRETE BASE COURSE IN 2 - 4 1/2" LAYERS
APPROVED SUBGRADE

ALTERNATE PAVING SECTIONS

Note: Any asphalt course that exceeds 4" in thickness MUST be applied in two courses or layers.

NOTE: This typical section is subject to Review & Approval by the CITY OF ROCKVILLE PLANNING COMMISSION



APPROVED BY: Joseph Cutro
Joseph Cutro - Chief Engineer/Transportation

Date: 5/13/96

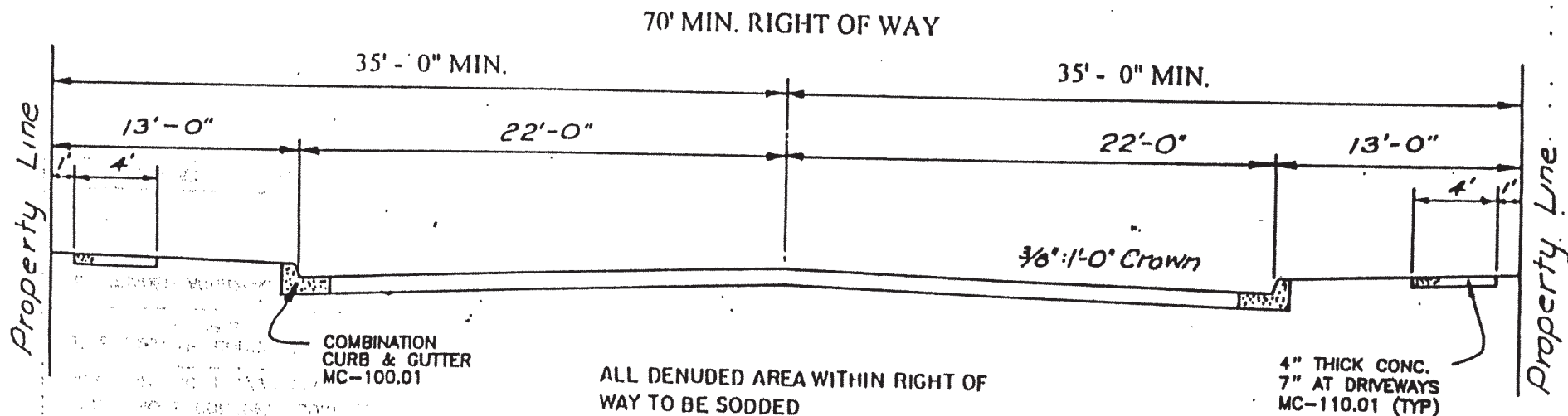
ARTERIAL ROAD

10/97

REVISION

DETAIL

40



3" BITUMINOUS CONCRETE SURFACE COURSE IN 2 - 1 1/2" LAYERS
7" BITUMINOUS CONCRETE BASE COURSE
8" GRADED AGGREGATE BASE COURSE IN TWO LAYERS
APPROVED SUBGRADE

3" BITUMINOUS CONCRETE SURFACE COURSE IN 2 - 1 1/2" LAYERS
9" BITUMINOUS CONCRETE BASE COURSE IN TWO 4 1/2" LAYERS
4" GRADED AGGREGATE BASE COURSE
APPROVED SUBGRADE

ALTERNATE PAVING SECTIONS

Note: Any asphalt course that exceeds 4" in thickness
MUST be applied in two courses or layers.



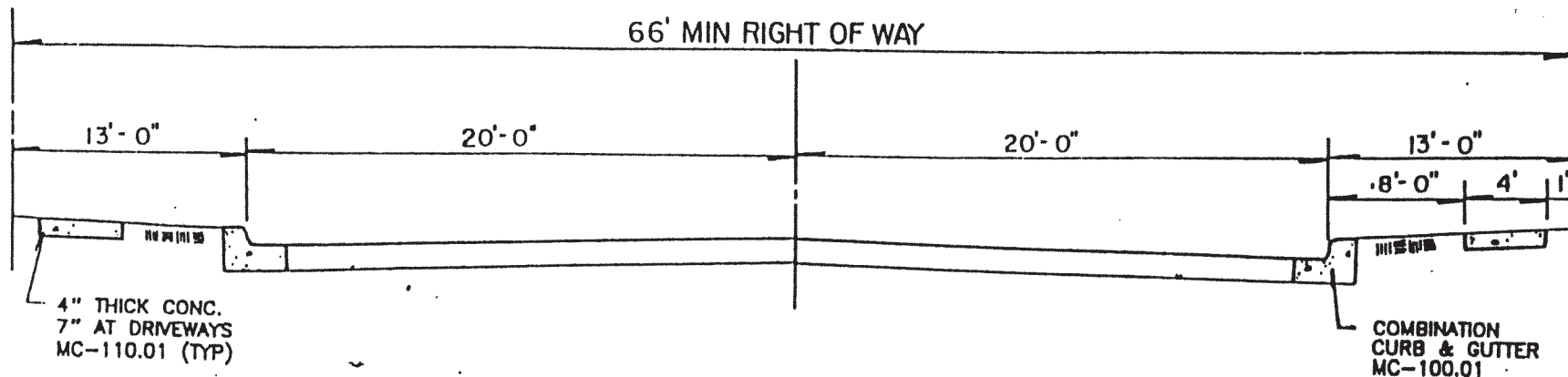
APPROVED BY: Joseph Culro
Joseph Culro - Chief Engineer/Transportation

Date: 8/13/96

PRIMARY INDUSTRIAL ROAD

10/97
REVISION

DETAIL
41



3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS
7" BITUMINOUS CONCRETE BASE COURSE
8" GRADED AGGREGATE BASE COURSE IN TWO LAYERS
APPROVED SUBGRADE

3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS
9" BITUMINOUS CONCRETE BASE COURSE IN TWO 4 1/2" LAYERS
4" GRADED AGGREGATE BASE COURSE
APPROVED SUBGRADE

ALTERNATE PAVING SECTIONS

Note: Any asphalt course that exceeds 4" in thickness
MUST be applied in two courses or layers.



APPROVED BY: Joseph Cutro
Joseph Cutro - Chief Engineer/Transportation
Date: 8/13/98

SECONDARY INDUSTRIAL ROAD

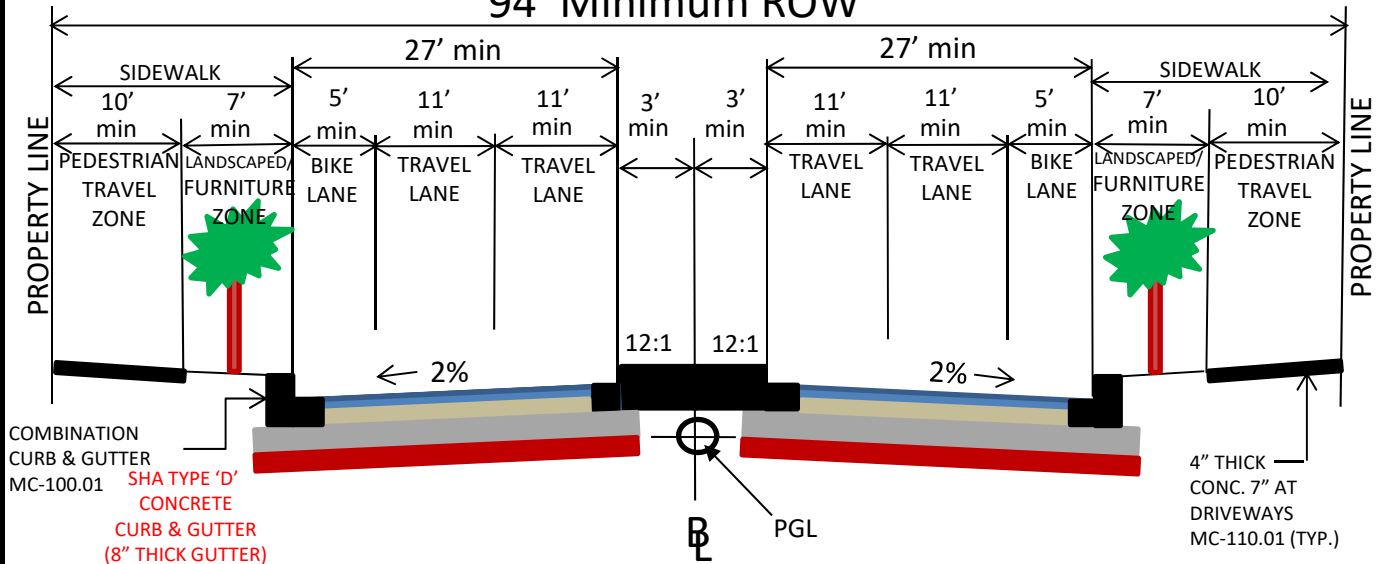
10/97
REVISION

DETAIL
42

Design Data

NOT TO SCALE

94' Minimum ROW



Paving Detail

Design Data

GEOMETRIC DESIGN SHALL CONFORM TO THE LATEST EDITION OF THE AASHTO "GREEN BOOK" GUIDELINES.

3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS	TARGET SPEED (MPH)	SUPERELEVATION DISTRIBUTION	MAX GRADE
5" BITUMINOUS CONCRETE BASE COURSE	25	NONE (-2% MAX)	8%
8" GRADED AGGREGATE BASE COURSE IN TWO 4" LAYERS	30	AASHTO METHOD 2 (4% MAX)	8%
APPROVED SUBGRADE	MIN ALLOWABLE R_L RADIUS = 300'		

General Notes

1. LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS WILL APPLY FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. RIGHT-OF-WAY (R-O-W) AND PUBLIC UTILITY EASEMENTS (PUEs) ARE SUBJECT TO "DECLARATIONS OF TERMS AND PROVISIONS OF PUBLIC UTILITY EASEMENTS" RECORDED AS LIBER 3834, FOLIO 457 IN THE LAND RECORDS OF MONTGOMERY COUNTY.
3. STANDARD ELEVATION AT PROPERTY LINE, RELATIVE TO PGL SHALL NOT VARY AT DRIVEWAYS.
4. PAVING DETAIL DEPICTS THE MINIMUM REQUIRED SECTION WHICH MUST BE CERTIFIED BY A QUALIFIED PROFESSIONAL TO THE SATISFACTION OF THE DIRECTOR. AN ENGINEERED PAVING DESIGN USING SHA METHODOLOGY WILL BE REQUIRED WHEN THE MINIMUM PAVING DETAIL CANNOT BE SUPPORTED.
5. ADDITIONAL R-O-W MAY BE NEEDED AT INTERSECTIONS WHERE ONE OR MULTIPLE TURN LANES ARE NECESSARY TO MAINTAIN ACCEPTABLE LEVELS-OF-SERVICE, ADDITIONAL BICYCLE FACILITIES RECOMMENDED UNDER THE BIKEWAY MASTER PLAN, PARKING IF THE GEOMETRY DOES NOT CREATE A SAFETY PROBLEM OR REDUCE OVERALL TRAFFIC OPERATIONS, UTILITIES, OR STORMWATER MANAGEMENT FACILITIES WHICH MAY INCLUDE BIORETENTION AREAS AS APPROVED BY THE DIRECTOR.
6. SELECTION OF APPROPRIATE TARGET SPEED (EQUAL OR SLIGHTLY LESS THAN DESIGN SPEED) IS SUBJECT TO DEPARTMENT REVIEW AND APPROVAL. APPROVED TARGET AND DESIGN SPEED MUST APPEAR ON CONSTRUCTION DRAWINGS.
7. ALL UNPAVED AREAS WITHIN THE LIMITS OF DISTURBANCE SHALL BE STABILIZED WITH ESTABLISH GRASS TURF (SOD) OR APPROVED LANDSCAPING.
8. STREET TREES OF APPROVED TYPE, SIZE AND SPACING SHALL BE PLANTED AT LOCATIONS SHOWN.

STANDARD DEVELOPED AND IMPLEMENTED IN CONFORMANCE WITH ROAD CODE REVISION ADOPTED (DATE)

DIRECTOR, DEPARTMENT OF PUBLIC WORKS

DATE

CHIEF, ENGINEERING DIVISION

DATE

CHIEF, TRAFFIC AND TRANSPORTATION DIVISION

DATE

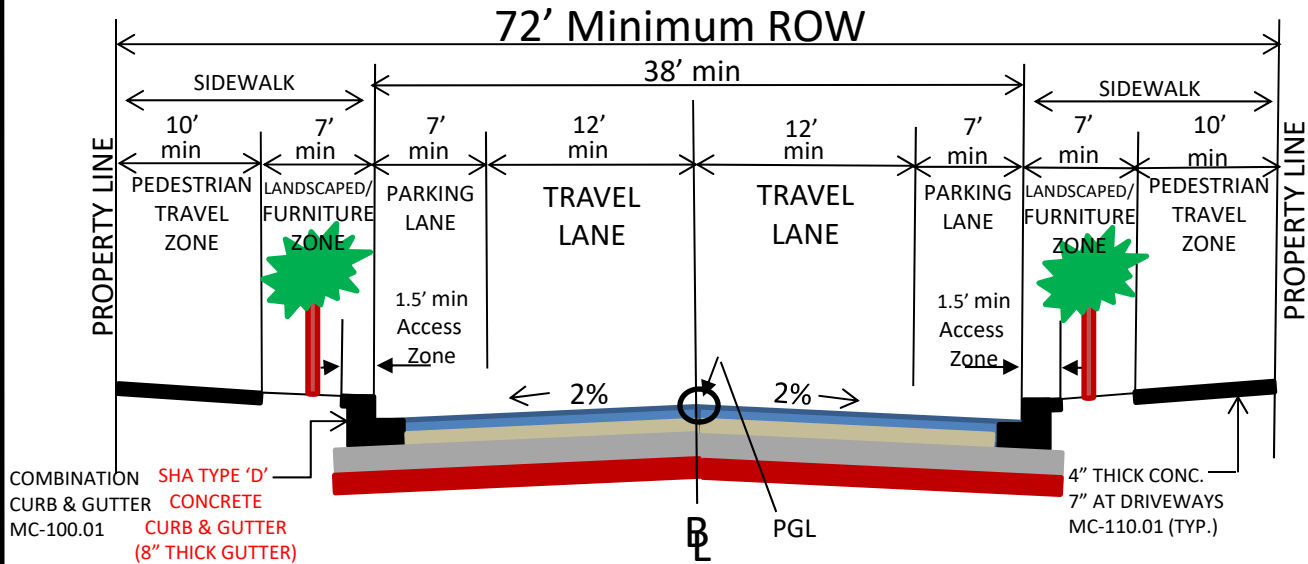
CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS

BUSINESS DISTRICT ROAD
CLASS I

STANDARD DETAIL

Design Data

NOT TO SCALE



Paving Detail

Design Data

GEOMETRIC DESIGN SHALL CONFORM TO THE LATEST EDITION OF THE AASHTO "GREEN BOOK" GUIDELINES.

3" BITUMINOUS CONCRETE SURFACE COURSE IN TWO 1 1/2" LAYERS	TARGET SPEED (MPH)	SUPERELEVATION DISTRIBUTION	MAX GRADE
5" BITUMINOUS CONCRETE BASE COURSE	25	NONE (-2% MAX)	8%
8" GRADED AGGREGATE BASE COURSE IN TWO 4" LAYERS	30	AASHTO METHOD 2 (4% MAX)	8%
APPROVED SUBGRADE	MIN ALLOWABLE R RADIUS = 300'		

General Notes

- LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS WILL APPLY FOR MATERIALS AND METHODS OF CONSTRUCTION.
- RIGHT-OF-WAY (R-O-W) AND PUBLIC UTILITY EASEMENTS (PUEs) ARE SUBJECT TO "DECLARATIONS OF TERMS AND PROVISIONS OF PUBLIC UTILITY EASEMENTS" RECORDED AS LIBER 3834, FOLIO 457 IN THE LAND RECORDS OF MONTGOMERY COUNTY.
- STANDARD ELEVATION AT PROPERTY LINE, RELATIVE TO PGL SHALL NOT VARY AT DRIVEWAYS.
- PAVING DETAIL DEPICTS THE MINIMUM REQUIRED SECTION WHICH MUST BE CERTIFIED BY A QUALIFIED PROFESSIONAL TO THE SATISFACTION OF THE DIRECTOR. AN ENGINEERED PAVING DESIGN USING SHA METHODOLOGY WILL BE REQUIRED WHEN THE MINIMUM PAVING DETAIL CANNOT BE SUPPORTED.
- ADDITIONAL R-O-W MAY BE NEEDED AT INTERSECTIONS WHERE ONE OR MULTIPLE TURN LANES ARE NECESSARY TO MAINTAIN ACCEPTABLE LEVELS-OF-SERVICE, WIDER LANE WIDTHS FOR GEOMETRIC PURPOSES AND/OR HIGH PARKING TURNOVER, BICYCLE FACILITIES RECOMMENDED UNDER THE BIKEWAY MASTER PLAN, UTILITIES, OR STORMWATER MANAGEMENT FACILITIES WHICH MAY INCLUDE BIORETENTION AREAS AND ARE SUBJECT TO THE APPROVAL OF THE DIRECTOR. PARKING CAN BE REMOVED IF THE GEOMETRY AND SPACING OF ACCESS POINTS ALONG THE ROAD CREATES A SAFETY HAZARD OR A MAINTENANCE ISSUE. THEREFORE THE R-O-W AND THE PAVING WIDTH MAY BE REDUCED BY UP TO 14 FEET UPON APPROVAL OF THE DIRECTOR.
- SELECTION OF APPROPRIATE TARGET SPEED (EQUAL OR SLIGHTLY LESS THAN DESIGN SPEED) IS SUBJECT TO DEPARTMENT REVIEW AND APPROVAL. APPROVED TARGET AND DESIGN SPEED MUST APPEAR ON CONSTRUCTION DRAWINGS.
- ALL UNPAVED AREAS WITHIN THE LIMITS OF DISTURBANCE SHALL BE STABILIZED WITH ESTABLISH GRASS TURF (SOD) OR APPROVED LANDSCAPING.
- STREET TREES OF APPROVED TYPE, SIZE AND SPACING SHALL BE PLANTED AT LOCATIONS SHOWN.

STANDARD DEVELOPED AND IMPLEMENTED IN CONFORMANCE WITH ROAD CODE REVISION ADOPTED (DATE)

DIRECTOR, DEPARTMENT OF PUBLIC WORKS

DATE

CHIEF, ENGINEERING DIVISION

DATE

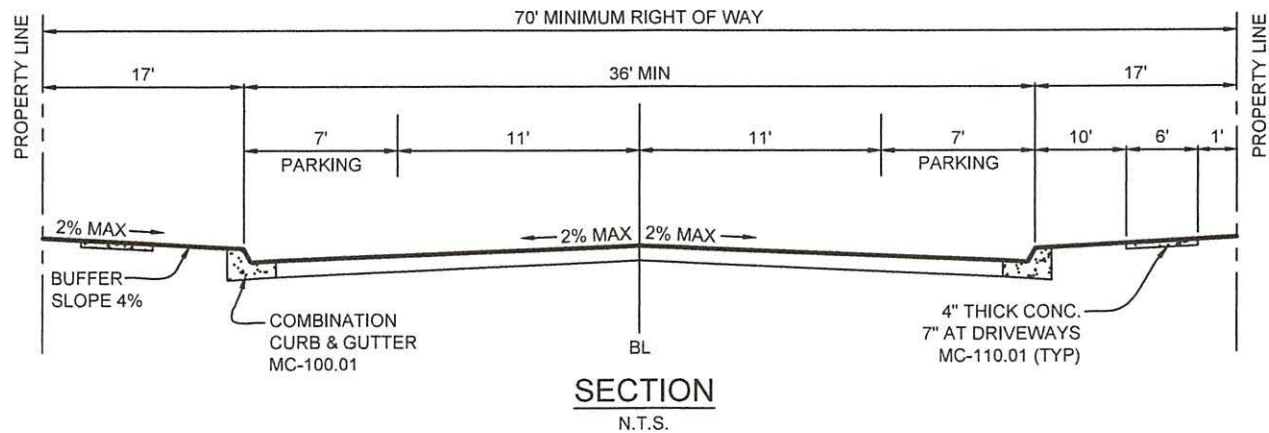
CHIEF, TRAFFIC AND TRANSPORTATION DIVISION

DATE

CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS

BUSINESS DISTRICT ROAD
CLASS II

STANDARD DETAIL



PAVING DETAIL

1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
3" Bituminous Concrete Base Course	5" Bituminous Concrete Base Course
4" Graded Aggregate Base Course	Approved Subgrade
Approved Subgrade	

DESIGN DATA

Geometric Design shall conform to most recent AASHTO "Green Book" methods.

	Target Speed (Mph)	Superelevation	Max Grade	Min Grade
Primary Residential	N/A (30 Mph for Sight Dist.)	None (-2% Max)	8%	1%

DESIGN NOTES

1. Minimum allowable baseline radius for Primary Residential is 300 feet.
2. When the maximum roadway exceeds 5%, additional measures may be necessary to meet ADA requirements.

GENERAL NOTES

1. Latest edition of the Maryland State Highway Administration shall apply for materials and methods of construction.
2. Paving detail depicts the minimum required section. Design engineer is responsible to ensure the final pavement design is adequate and subgrade meets design requirements based on a signed and sealed Geotechnical Report.
3. Any bituminous concrete course that exceeds 4" in thickness must be applied in two courses or layers.
4. All unpaved areas within the limits of disturbance shall be stabilized with established grass turf or approved landscaping.
5. Street trees of approved type, size, and spacing shall be planted at locations shown on approved plans.
6. This standard may need to be modified to provide additional features such as master plan bike facilities, auxiliary lanes at intersections, medians, or stormwater management facilities. Additional right of way may be necessary to accommodate such facilities.
7. For new developments, include on-street accessible parking in accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) section R214 "On-Street Parking Spaces" dated July 26, 2011.
8. For development proposed adjacent to existing non-compliant roads, the applicant shall construct public improvements to bring the road into compliance with the applicable standard roadway section to the maximum extent practicable, as determined by the Director of Public Works.

9/2020

10/1997

REVISIONS



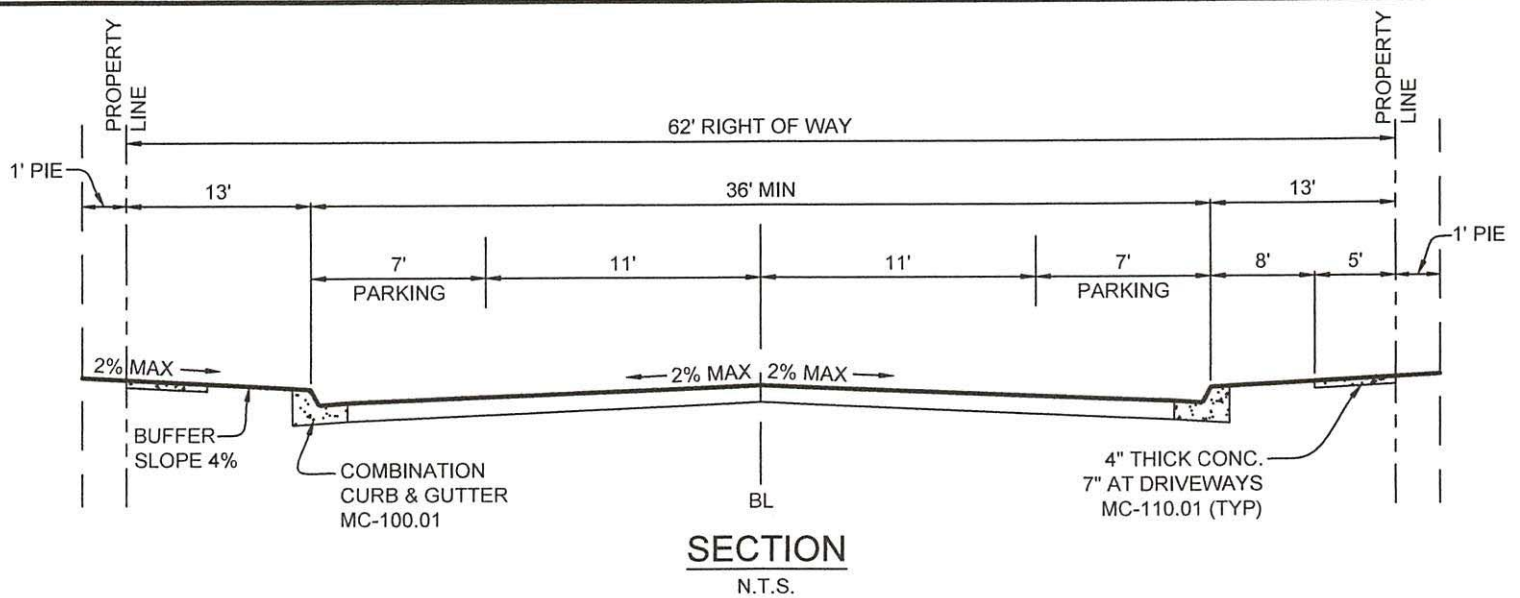
APPROVED: 9-17-2020

 DIRECTOR OF PUBLIC WORKS

CITY OF ROCKVILLE STANDARD DETAIL

PRIMARY RESIDENTIAL ROAD SECTION
 PARKING ON BOTH SIDES

DETAIL
 44



PAVING DETAIL

1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
3" Bituminous Concrete Base Course	5" Bituminous Concrete Base Course
4" Graded Aggregate Base Course	Approved Subgrade
Approved Subgrade	

DESIGN DATA

Geometric Design shall conform to most recent AASHTO "Green Book" methods.

	Target Speed (Mph)	Superelevation	Max Grade	Min Grade
Secondary Residential	N/A (25 Mph for Sight Dist.)	None (-2% Max)	10%	1%

DESIGN NOTES

1. Minimum allowable baseline radius for Secondary Residential is 150 feet.
2. When the maximum roadway exceeds 5%, additional measures may be necessary to meet ADA requirements.

GENERAL NOTES

1. Latest edition of the Maryland State Highway Administration shall apply for materials and methods of construction.
2. Paving detail depicts the minimum required section. Design engineer is responsible to ensure the final pavement design is adequate and subgrade meets design requirements based on a signed and sealed Geotechnical Report.
3. Any bituminous concrete course that exceeds 4" in thickness must be applied in two courses or layers.
4. All unpaved areas within the limits of disturbance shall be stabilized with established grass turf or approved landscaping.
5. Street trees of approved type, size, and spacing shall be planted at locations shown on approved plans.
6. This standard may need to be modified to provide additional features such as master plan bike facilities, auxiliary lanes at intersections, medians, or stormwater management facilities. Additional right of way may be necessary to accommodate such facilities.
7. For new developments, include on-street accessible parking in accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) section R214 "On-Street Parking Spaces" dated July 26, 2011.
8. For development proposed adjacent to existing non-compliant roads, the applicant shall construct public improvements to bring the road into compliance with the applicable standard roadway section to the maximum extent practicable, as determined by the Director of Public Works.

9/2020

10/1997

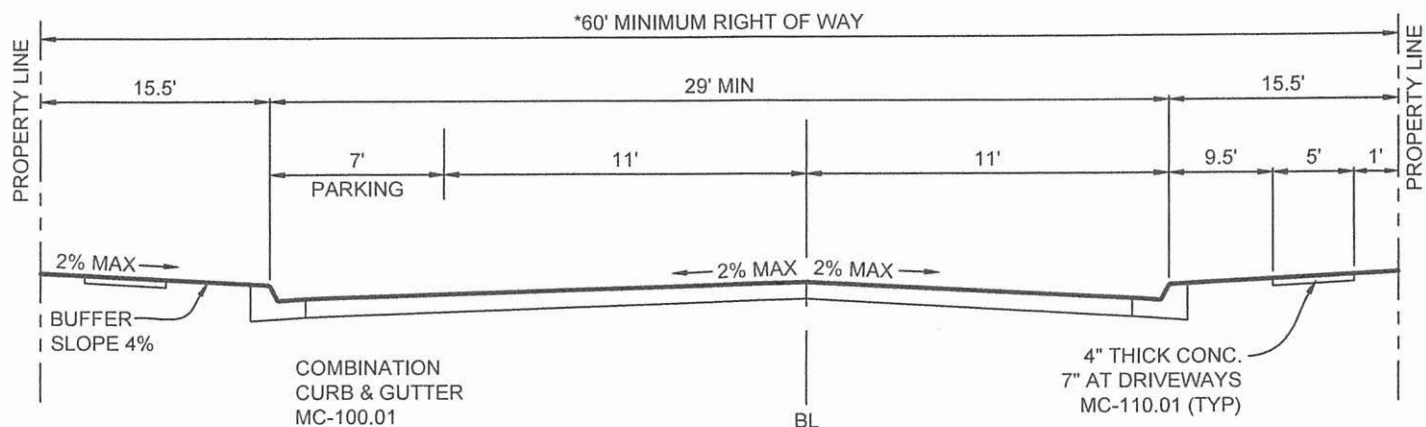
REVISIONS



APPROVED: *[Signature]* 9-17-2020
DIRECTOR OF PUBLIC WORKS

CITY OF ROCKVILLE STANDARD DETAIL
SECONDARY RESIDENTIAL ROAD SECTION
PARKING ON BOTH SIDES

DETAIL
45A



SECTION

N.T.S.

PAVING DETAIL

1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
3" Bituminous Concrete Base Course	5" Bituminous Concrete Base Course
4" Graded Aggregate Base Course	Approved Subgrade
Approved Subgrade	

DESIGN DATA

Geometric Design shall conform to most recent AASHTO "Green Book" methods.

	Target Speed (Mph)	Superelevation	Max Grade	Min Grade
Secondary Residential	N/A (25 Mph for Sight Dist.)	None (-2% Max)	10%	1%

DESIGN NOTES

1. Minimum allowable baseline radius for Secondary Residential is 150 feet.
2. When the maximum roadway exceeds 5%, additional measures may be necessary to meet ADA requirements.

GENERAL NOTES

1. Latest edition of the Maryland State Highway Administration shall apply for materials and methods of construction.
2. Paving detail depicts the minimum required section. Design engineer is responsible to ensure the final pavement design is adequate and subgrade meets design requirements based on a signed and sealed Geotechnical Report.
3. Any bituminous concrete course that exceeds 4" in thickness must be applied in two courses or layers.
4. All unpaved areas within the limits of disturbance shall be stabilized with established grass turf or approved landscaping.
5. Street trees of approved type, size, and spacing shall be planted at locations shown on approved plans.
6. This standard may need to be modified to provide additional features such as master plan bike facilities, auxiliary lanes at intersections, medians, or stormwater management facilities. Additional right of way may be necessary to accommodate such facilities.
7. For new developments, include on-street accessible parking in accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) section R214 "On-Street Parking Spaces" dated July 26, 2011.
8. Note that the roadway section is not symmetrical relative to the baseline. Actual orientation of left and right must be reviewed and approved.
9. Subject to the Director of Public Works approval, applicants proposing parking on only one side must demonstrate that parking is adequately addressed.
10. Switching the parking lane from one side of the street to the other is not permitted unless it transitions appropriately after an intersection with another street.
11. For development proposed adjacent to existing non-compliant roads, the applicant shall construct public improvements to bring the road into compliance with the applicable standard roadway section to the maximum extent practicable, as determined by the Director of Public Works.

9/2020

10/1997

REVISIONS



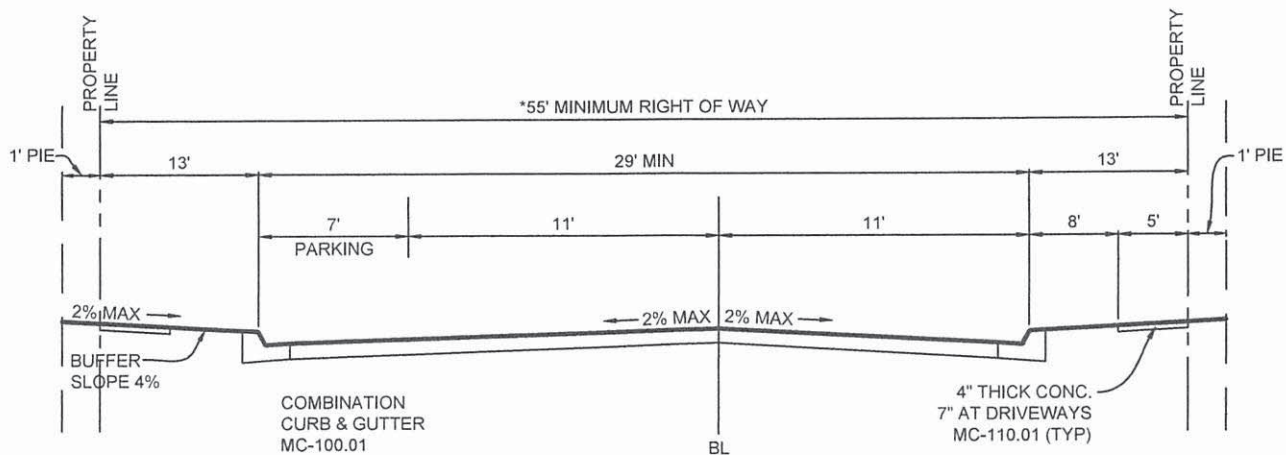
APPROVED: 9-17-2020

[Signature]
DIRECTOR OF PUBLIC WORKS

CITY OF ROCKVILLE STANDARD DETAIL

SECONDARY RESIDENTIAL ROAD SECTION
PARKING ON ONE SIDE

DETAIL
45B



SECTION
N.T.S.

PAVING DETAIL

1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
1 1/2" Bituminous Concrete Surface Course	1 1/2" Bituminous Concrete Surface Course
3" Bituminous Concrete Base Course	5" Bituminous Concrete Base Course
4" Graded Aggregate Base Course	Approved Subgrade
Approved Subgrade	

DESIGN DATA

Geometric Design shall conform to most recent AASHTO "Green Book" methods.

	Target Speed (Mph)	Superelevation	Max Grade	Min Grade
Secondary Residential	N/A (25 Mph for Sight Dist.)	None (-2% Max)	10%	1%

DESIGN NOTES

1. Minimum allowable baseline radius for Secondary Residential is 150 feet.
2. When the maximum roadway exceeds 5%, additional measures may be necessary to meet ADA requirements.

GENERAL NOTES

1. Latest edition of the Maryland State Highway Administration shall apply for materials and methods of construction.
2. Paving detail depicts the minimum required section. Design engineer is responsible to ensure the final pavement design is adequate and subgrade meets design requirements based on a signed and sealed Geotechnical Report.
3. Any bituminous concrete course that exceeds 4" in thickness must be applied in two courses or layers.
4. All unpaved areas within the limits of disturbance shall be stabilized with established grass turf or approved landscaping.
5. Street trees of approved type, size, and spacing shall be planted at locations shown on approved plans.
6. This standard may need to be modified to provide additional features such as master plan bike facilities, auxiliary lanes at intersections, medians, or stormwater management facilities. Additional right of way may be necessary to accommodate such facilities.
7. For new developments, include on-street accessible parking in accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) section R214 "On-Street Parking Spaces" dated July 26, 2011.
8. Note that the roadway section is not symmetrical relative to the baseline. Actual orientation of left and right must be reviewed and approved.
9. Subject to the Director of Public Works approval, applicants proposing parking on only one side must demonstrate that parking is adequately addressed.
10. This detail requires a waiver by the Mayor and Council per Chapter 21 of the City Code.
11. For development proposed adjacent to existing non-compliant roads, the applicant shall construct public improvements to bring the road into compliance with the applicable standard roadway section to the maximum extent practicable, as determined by the Director of Public Works.

9/2020

10/1997

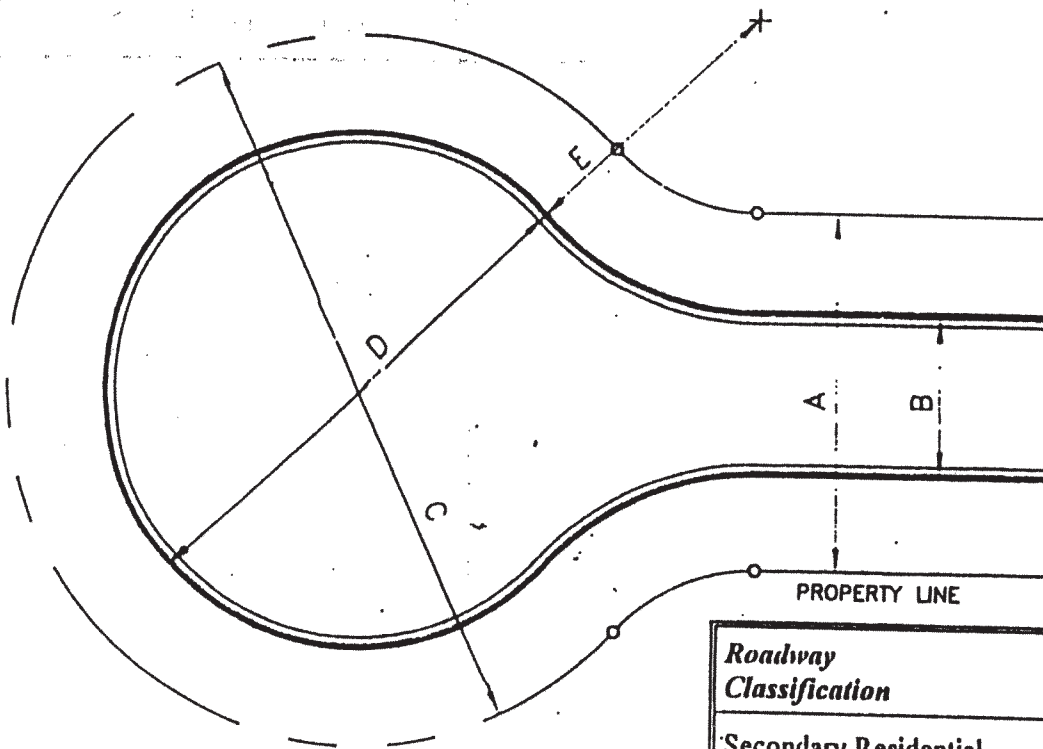
REVISIONS



APPROVED: 9-17-2020
[Signature]
DIRECTOR OF PUBLIC WORKS

CITY OF ROCKVILLE STANDARD DETAIL
SECONDARY RESIDENTIAL ROAD SECTION
PARKING ON ONE SIDE (WAIVERED)

DETAIL
45C



Roadway Classification	A	B	C	D	E
Secondary Residential	50'	26'	110'	93'	50'
Secondary Residential	60'	26'	120'	93'	50'
Sencondary Industrial	66'	40'	150'	110'	50'
Business District	70'	48'	150'	110'	50'

General Notes

Note: Dimensions to curb are at flowline

1. Provide 1% minimum flowline grade. Top of curb elevations are required for all curb intervals not to exceed 50 feet.
2. Pave to provide smooth grade and positive drainage.
3. Sidewalks shall be located in accordance with applicable roadway standards.
4. Center islands are NOT acceptable



ROCKVILLE

APPROVED BY: Joseph Pulro
Joseph Pulro - Chief Engineer/Transportation

Date: 8/13/96

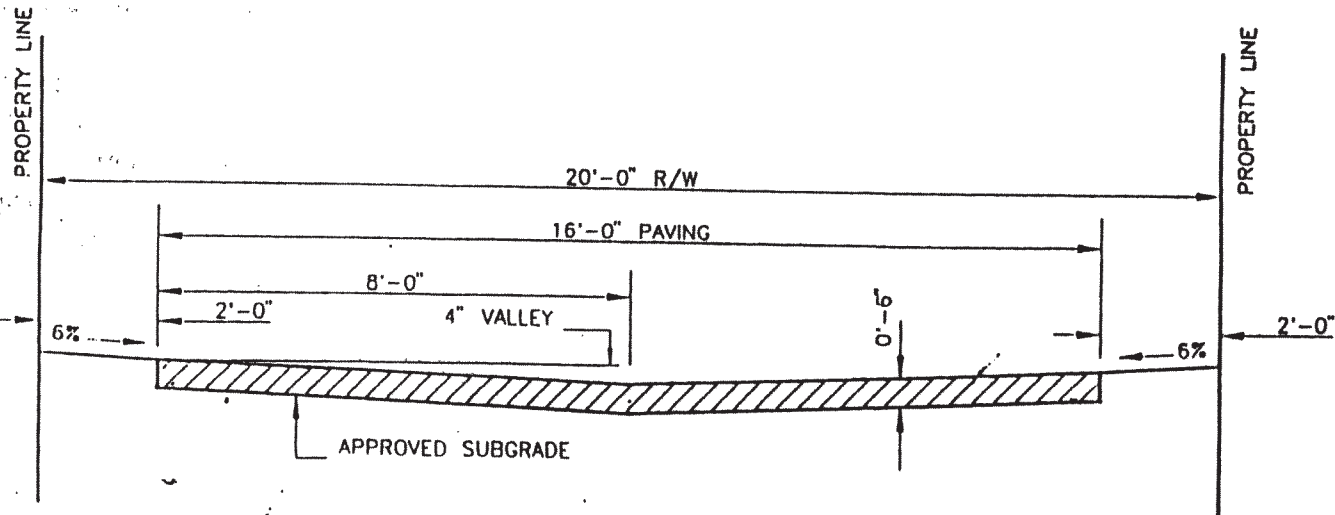
CUL - DE - SAC

10/97

REVISION

DETAIL

46



1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
3" BITUMINOUS CONCRETE BASE COURSE
4" GRADED AGGREGATE BASE COURSE
APPROVED SUBGRADE

1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
5" BITUMINOUS CONCRETE BASE COURSE
APPROVED SUBGRADE

ALTERNATE PAVING SECTIONS

Note: Any asphalt course that exceeds 4" in thickness MUST be applied in two courses or layers.



ROCKVILLE

APPROVED BY: Joseph Curo - Chief Engineer/Transportation

Date: 8/13/96

RESIDENTIAL ALLEY

10/97

REVISION

DETAIL

47