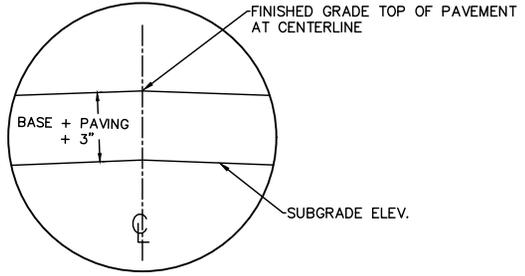
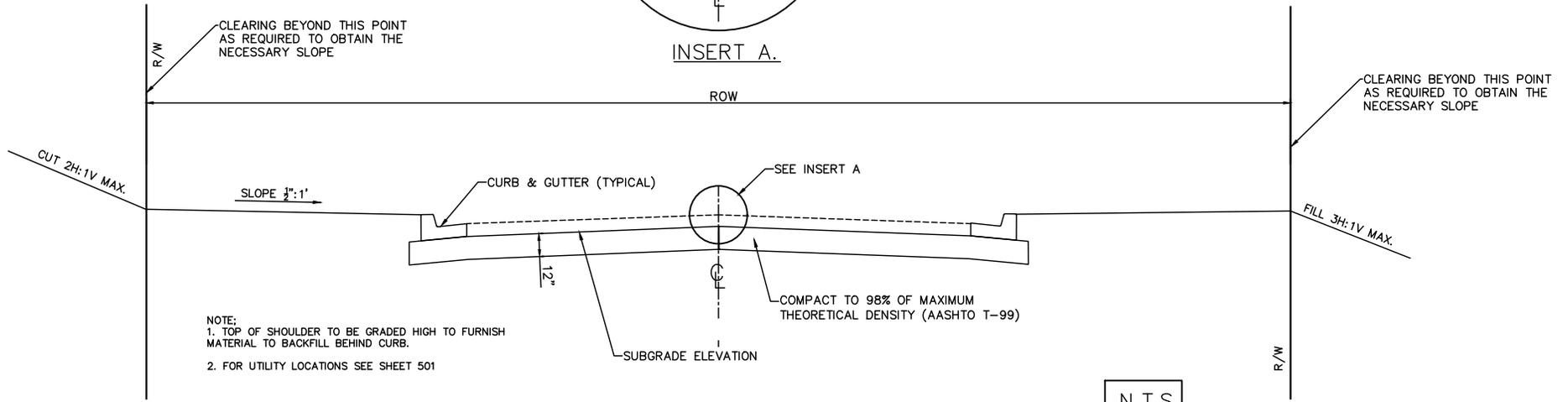


**APPENDIX A NORCROSS CAD DETAILS**  
**STANDARD DRAWINGS**



INSERT A.

ROW



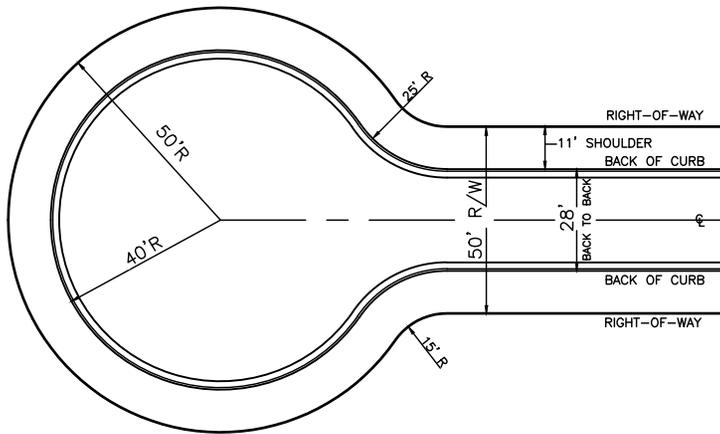
NOTE:  
 1. TOP OF SHOULDER TO BE GRADED HIGH TO FURNISH MATERIAL TO BACKFILL BEHIND CURB.  
 2. FOR UTILITY LOCATIONS SEE SHEET 501

N.T.S.



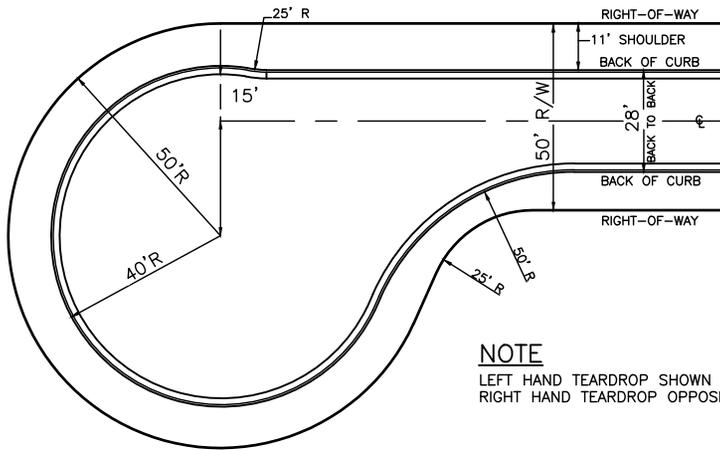
**CITY OF NORCROSS**  
 65 LAWRENCEVILLE ST.  
 NW, NORCROSS, GA 30071

**STANDARD DETAILS**  
**STREET GRADING LOCAL**  
**OR MINOR COLLECTOR STREET**



**"CENTERED" CUL-DE-SAC TURN-AROUND**

N.T.S.

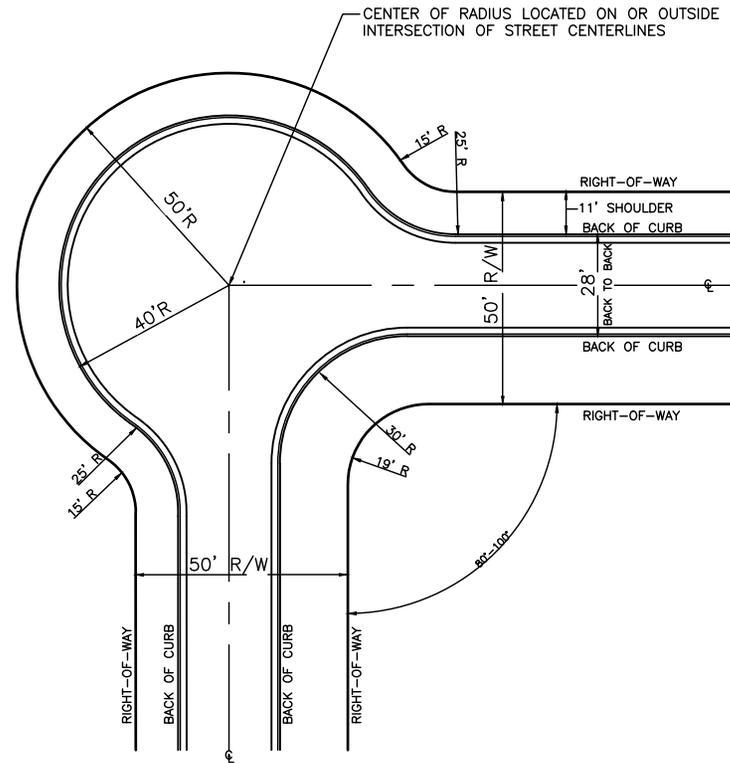


**"TEARDROP" CUL-DE-SAC TURN-AROUND**

N.T.S.

**NOTE**

LEFT HAND TEARDROP SHOWN  
RIGHT HAND TEARDROP OPPOSITE



**"EYEBROW" TURN-AROUND**

LOCAL RESIDENTIAL STREETS ONLY  
N.T.S.



**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

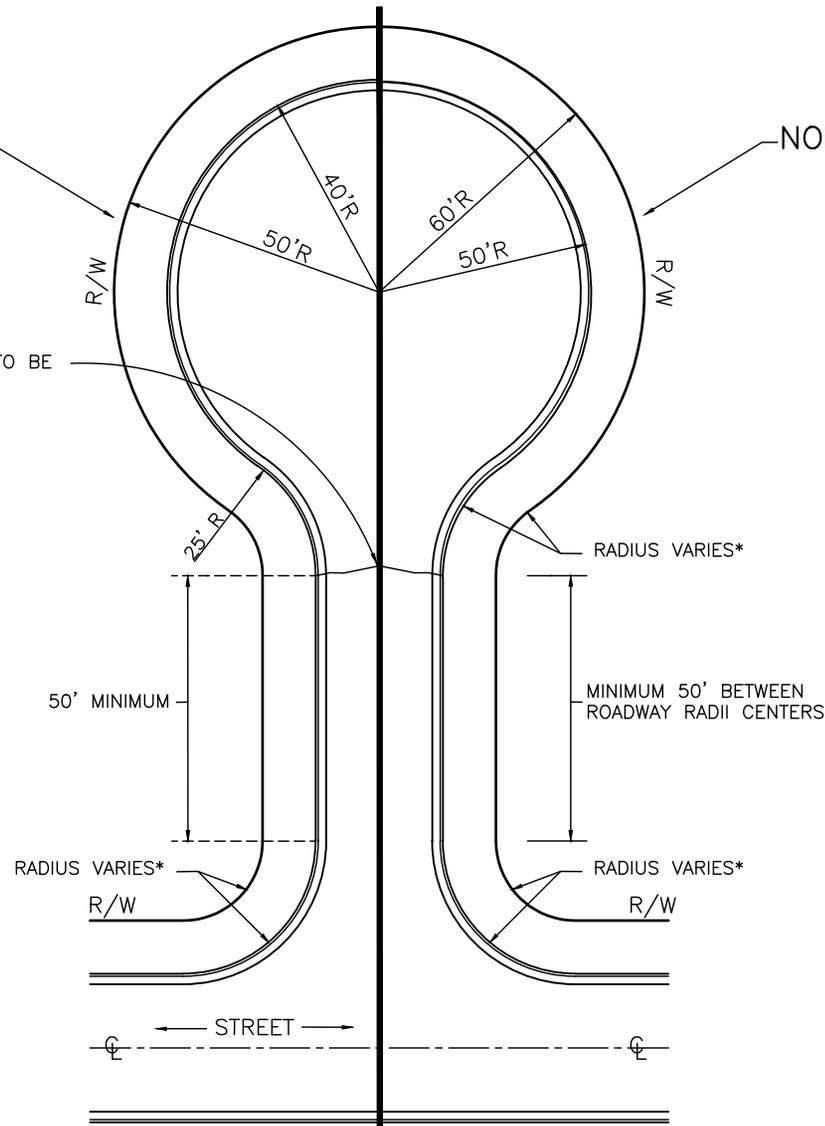
**STANDARD DETAILS**

**STANDARD RESIDENTIAL  
TURN-AROUNDS**

LOCAL RESIDENTIAL STREET

LOCAL NONRESIDENTIAL STREET

STANDARD MINIMUM ROADWAY WIDTH TO BE ACHIEVED AT RETURN TANGENT



\*SEE MINIMUM INTERSECTION RADII REQUIREMENTS IN UNIFIED DEVELOPMENT ORDINANCE

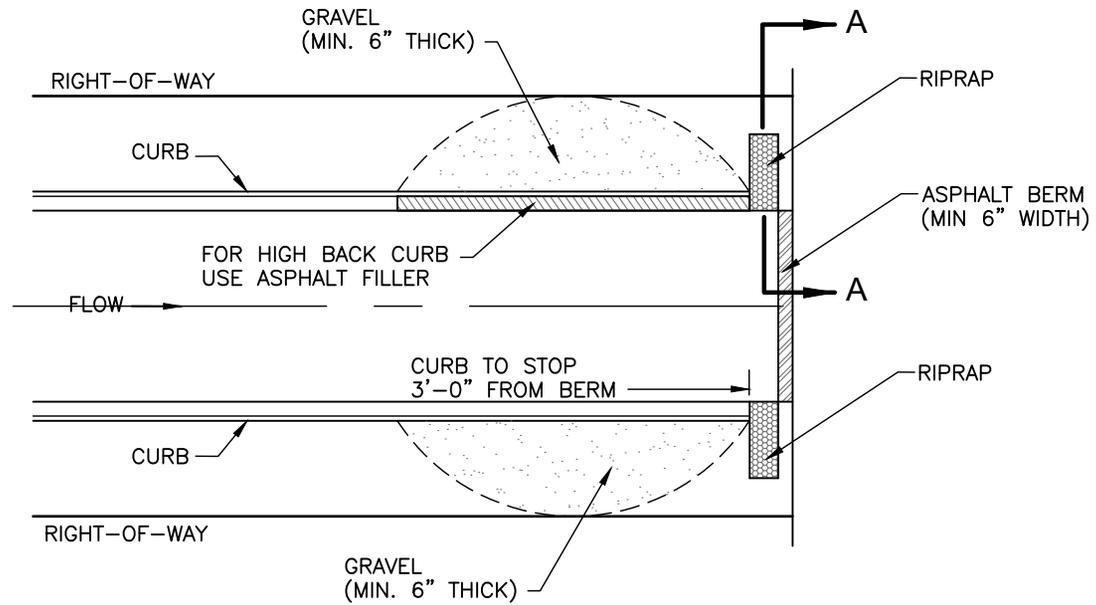


### CITY OF NORCROSS

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

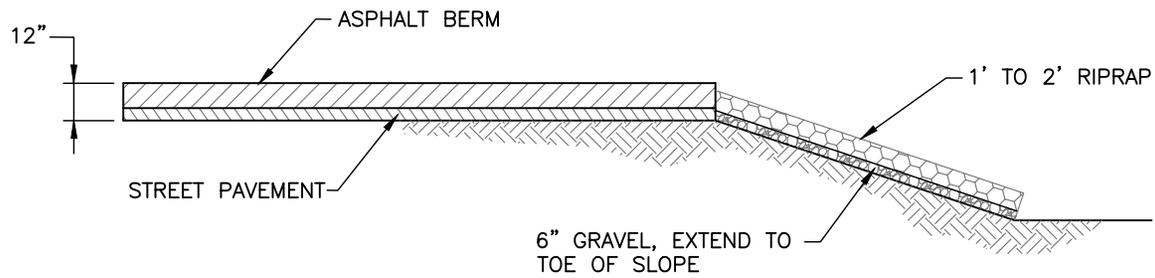
### STANDARD DETAILS

CUL-DE-SAC  
MINIMUM LENGTHS



PLAN

N.T.S.



SECTION A-A

N.T.S.



**CITY OF NORCROSS**

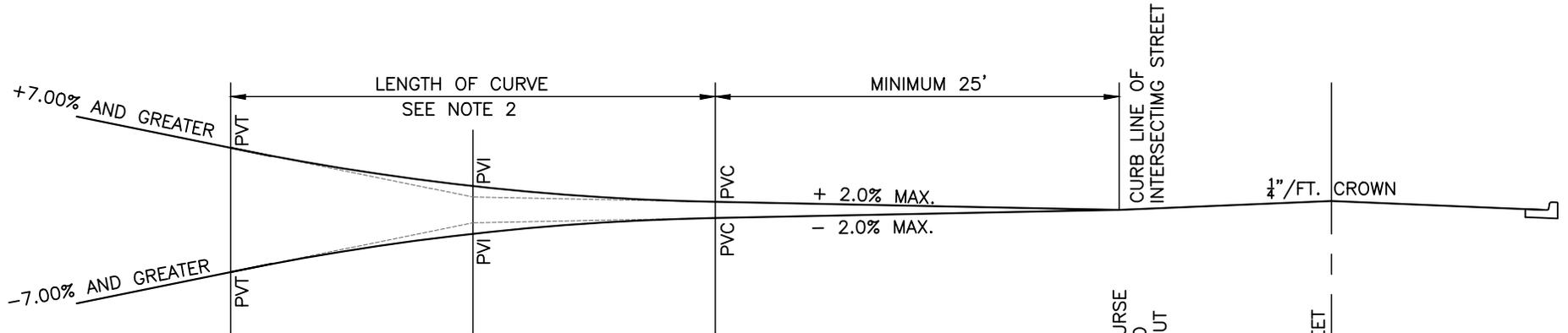
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**TEMPORARY VEHICULAR  
TURNAROUND**

**303**

# INTERSECTION OF LOCAL OR MINOR COLLECTOR STREETS

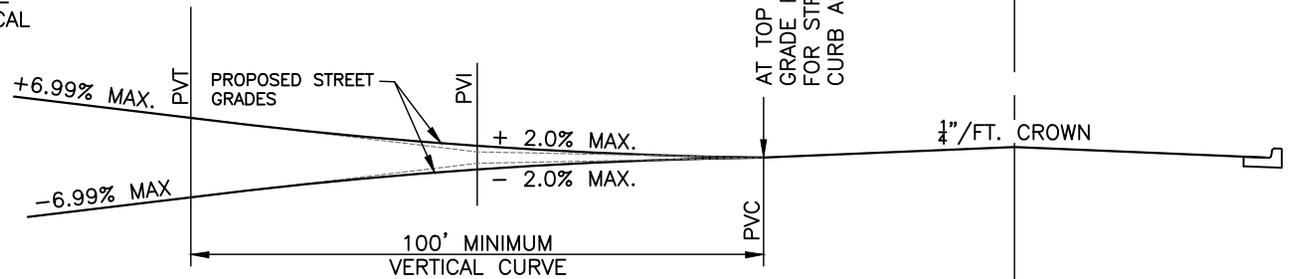


GRADES 7.00% AND GREATER  
N.T.S.

**NOTES:**

1) THIS STANDARD IS INTENDED TO BE A MINIMUM DESIGN STANDARD FOR CONTROL OF GRADES OF STREETS APPROACHING AN INTERSECTION WITH A LOCAL OR MINOR COLLECTOR STREET. FOR INTERSECTION WITH MAJOR THOROUGHFARES, SEE UNIFIED DEVELOPMENT ORDINANCE.

2) REFER TO UNIFIED DEVELOPMENT ORDINANCE TABLE 401-43(b) FOR "K" VALUES FOR VERTICAL CURVES.



GRADES LESS THAN 7.00%  
N.T.S.



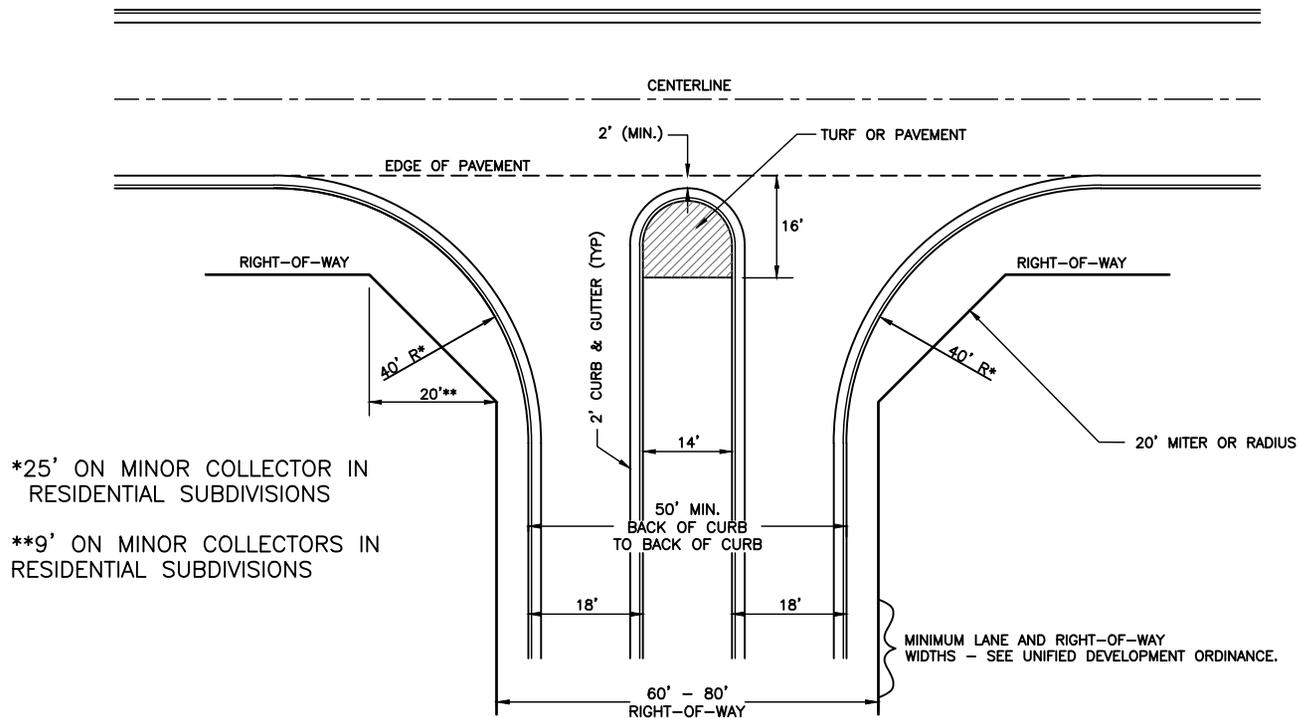
**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**VERTICAL ALIGNMENT AT INTERSECTION WITH  
LOCAL OR MINOR COLLECTOR STREET**

# INTERSECTION DETAIL NO. 1



**NOTES:**

1. INSIDE OF ISLANDS ARE TO BE BACKFILL WITH PORTLAND CEMENT CONCRETE, OR GRASSED, OR PLANTED WITH VEGETATION NOT EXCEEDING TWENTY-FOUR INCHES IN HEIGHT.
2. DEVELOPER TO MAINTAIN GRASSED OR PLANTED ISLAND.
3. LARGER RADII FOR RIGHT-OF-WAY OR ROADWAY CONNECTIONS MAY BE REQUIRED FOR STREETS INTERSECTING AT ANGLES LESS THAN 90 DEGREES.



**CITY OF NORCROSS**

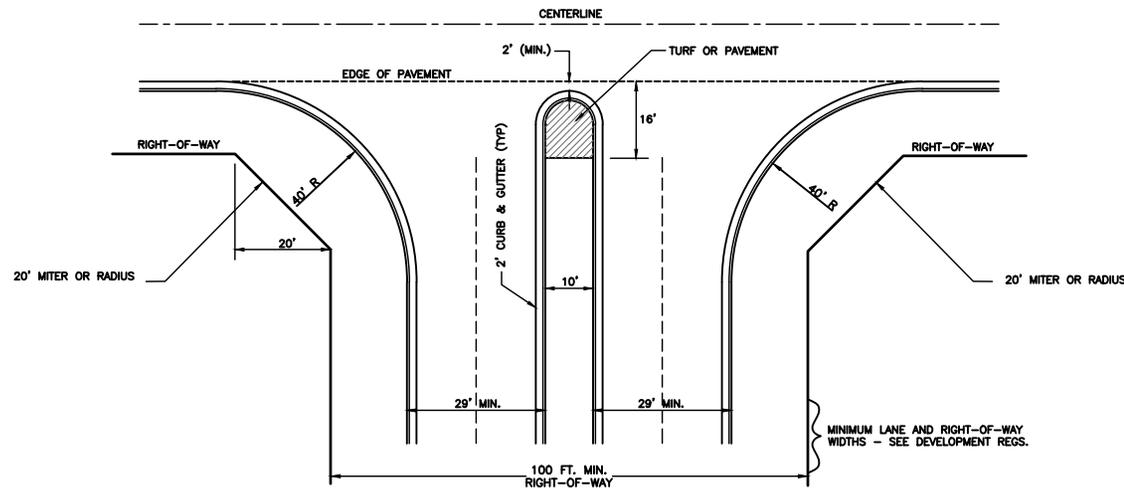
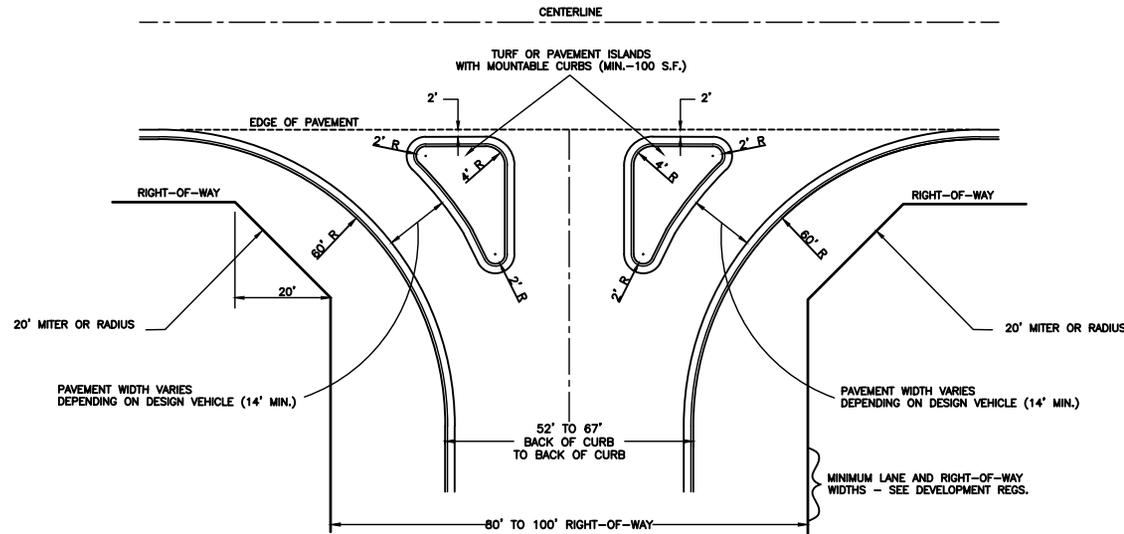
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**T-INTERSECTION ONLY - MINOR OR MAJOR  
COLLECTOR STREET CLASSIFICATION**

**305**

## INTERSECTION DETAIL NO. 2



**NOTES:**

1. A COMBINATION OF THESE TWO DESIGNS MAY BE USED.
2. INSIDE OF ISLANDS ARE TO BE BACKFILL WITH PORTLAND CEMENT CONCRETE, OR GRASSED, OR PLANTED WITH VEGETATION NOT EXCEEDING TWENTY-FOUR INCHES IN HEIGHT.
3. DEVELOPER TO MAINTAIN GRASSED OR PLANTED ISLAND.
4. LARGER RADII FOR RIGHT-OF-WAY OR ROADWAY CONNECTIONS MAY BE REQUIRED FOR STREETS INTERSECTING AT ANGLES LESS THAN 90 DEGREES.
5. ISLANDS AT INTERSECTION ARE AT THE OPTION OF THE DEVELOPER, EXCEPT FOR GEORGIA D.O.T. CONTROLLED ROUTES



**CITY OF NORCROSS**

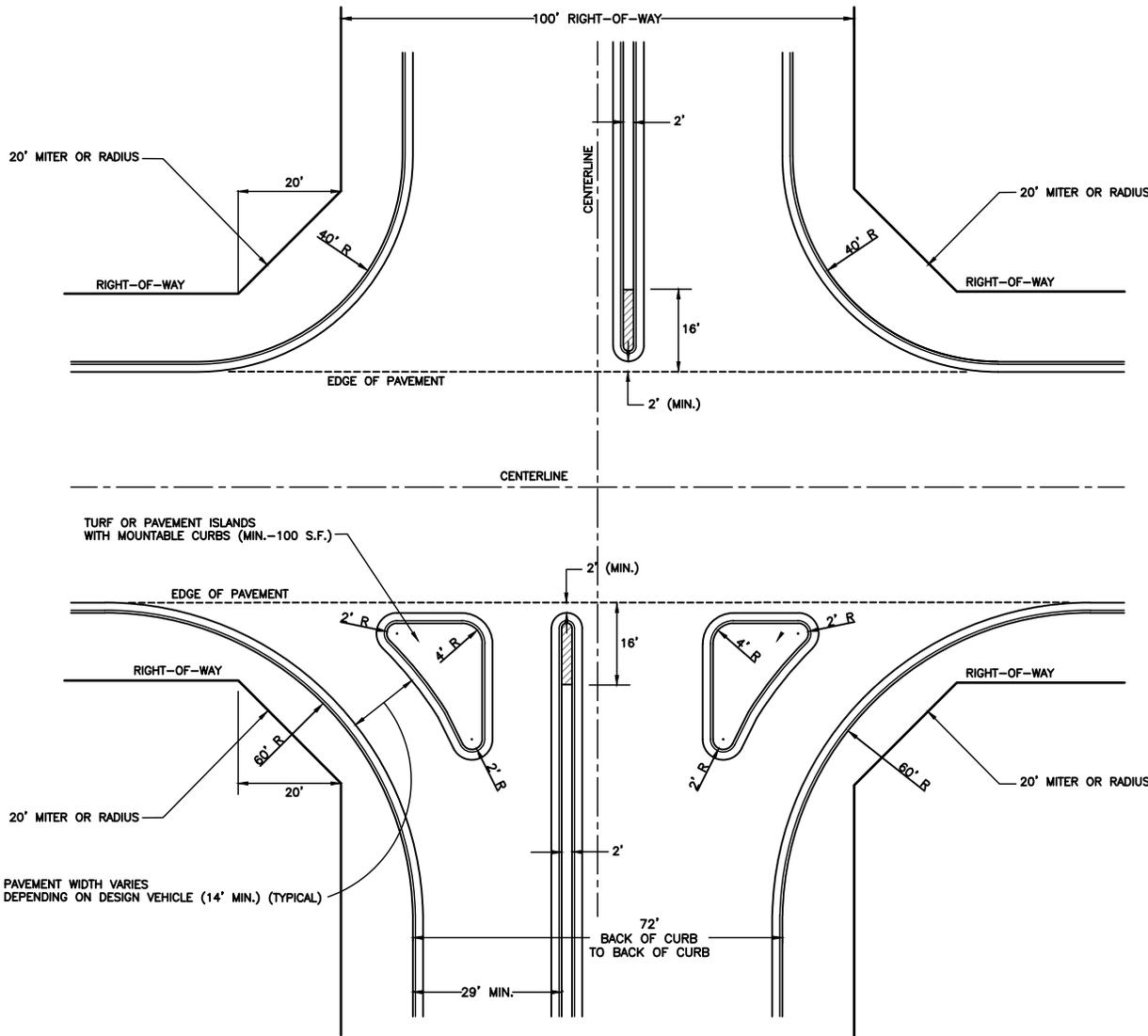
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**T-INTERSECTION ONLY - ARTERIAL OR MAJOR  
COLLECTOR STREET CLASSIFICATION**

**306**

### INTERSECTION DETAIL NO. 3



**NOTES:**

1. A COMBINATION OF THESE TWO DESIGNS MAY BE USED.
2. INSIDE OF ISLANDS ARE TO BE BACKFILL WITH PORTLAND CEMENT CONCRETE, OR GRASSED, OR PLANTED WITH VEGETATION NOT EXCEEDING TWENTY-FOUR INCHES IN HEIGHT.
3. DEVELOPER TO MAINTAIN GRASSED OR PLANTED ISLAND.
4. LARGER RADII FOR RIGHT-OF-WAY OR ROADWAY CONNECTIONS MAY BE REQUIRED FOR STREETS INTERSECTING AT ANGLES LESS THAN 90 DEGREES.
5. ISLANDS AT INTERSECTION ARE AT THE OPTION OF THE DEVELOPER, EXCEPT FOR GEORGIA D.O.T. CONTROLLED ROUTES

UNDIVIDED

- 80' - 100' RIGHT-OF-WAY \*
- 52' - 66' OR 67' ROADWAY \*

MINIMUM LANE AND RIGHT-OF-WAY WIDTHS - SEE DEVELOPMENT REGS.



**CITY OF NORCROSS**

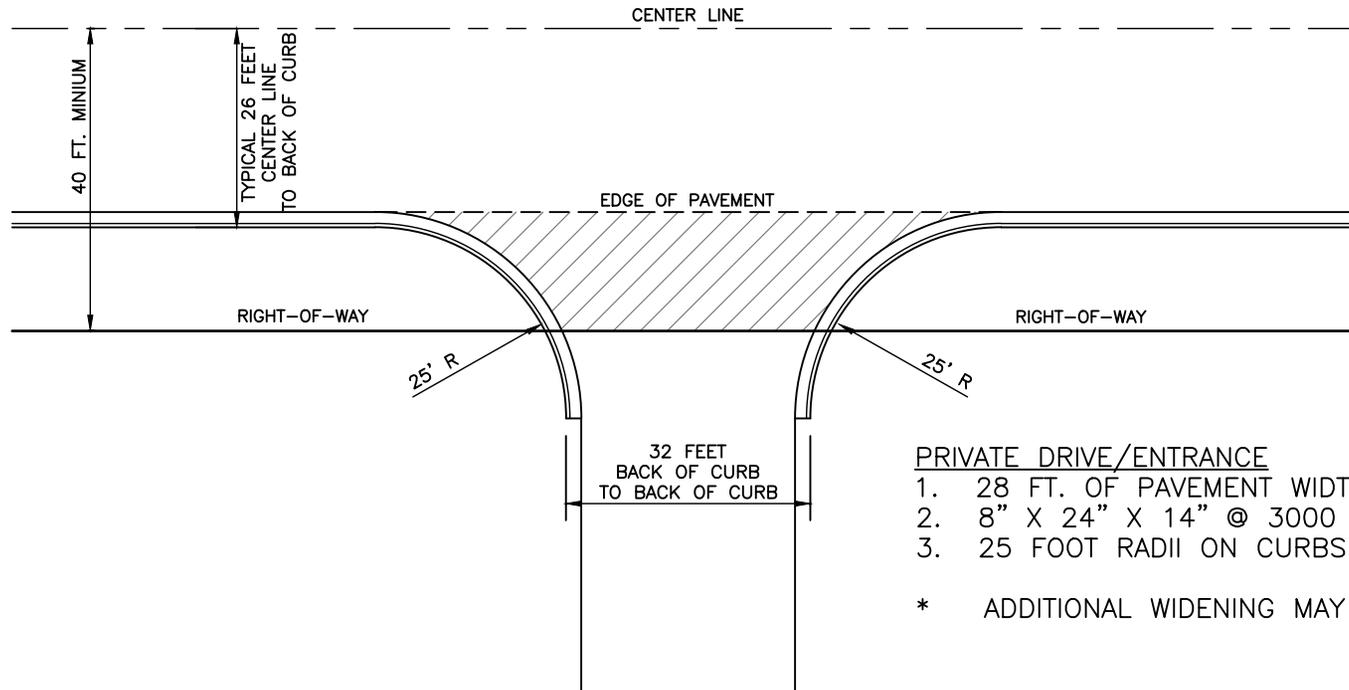
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**INTERSECTION DETAIL ARTERIAL OR MAJOR COLLECTOR STREET CLASSIFICATION**

# DRIVEWAY DETAIL NO.1 – 32 FT. WIDTH 25 FT. RADIUS

AUTOMOBILE SERVICE STATION/GASOLINE CONVENIENCE STORES  
 COMMERCIAL SITES (OVER 80,000 SQ. FT.)  
 OFFICE INSTITUTIONAL COMPLEXES (OVER 100,000 SQ. FT.)  
 APARTMENT/CONDO COMPLEXES (OVER 200 UNITS)  
 MOBILE HOME COMPLEXES (OVER 200 LOTS)



### PRIVATE DRIVE/ENTRANCE

1. 28 FT. OF PAVEMENT WIDTH
2. 8" X 24" X 14" @ 3000 PSI CURB AND GUTTER
3. 25 FOOT RADII ON CURBS

\* ADDITIONAL WIDENING MAY BE REQUIRED



**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
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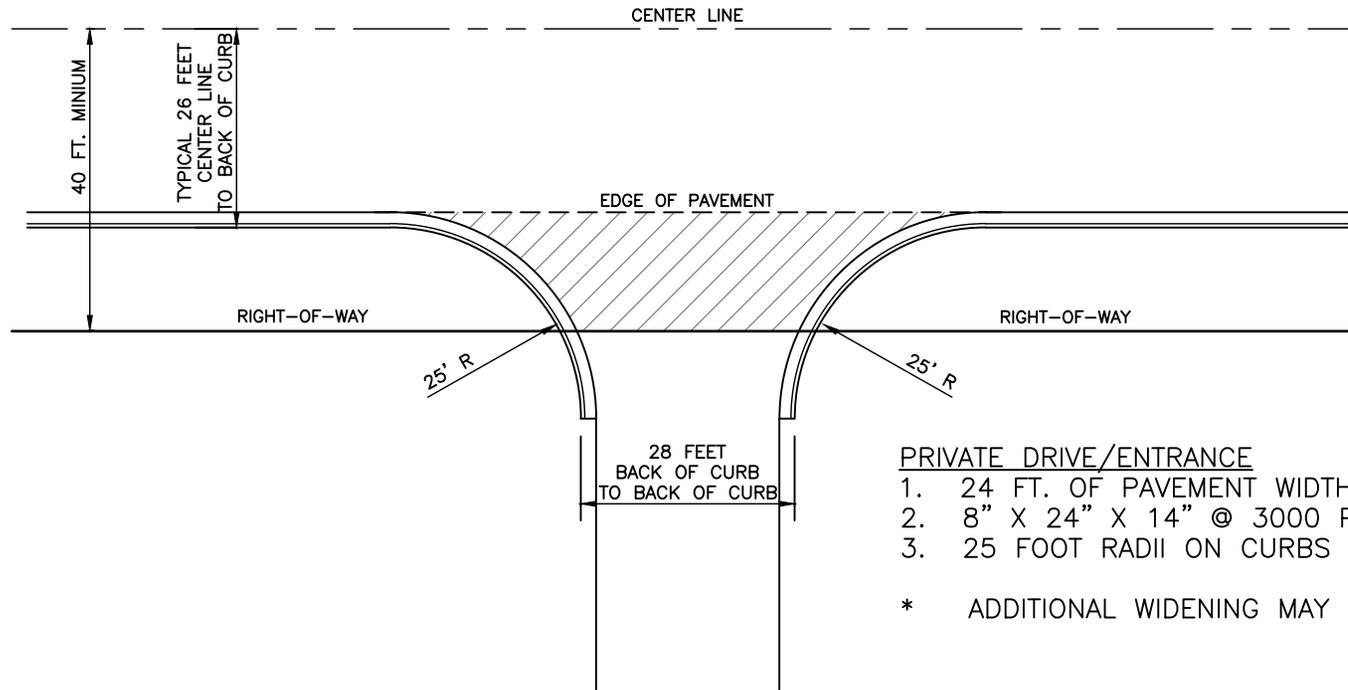
**STANDARD DETAILS**

**DRIVEWAY DETAIL NO.1**

**308**

# DRIVEWAY DETAIL NO.2 – 28 FT. WIDTH 25 FT. RADIUS

COMMERCIAL SITES (80,000 SQ. FT. OR LESS)  
 OFFICE INSTITUTIONAL COMPLEXES (100,000 SQ. FT. OR LESS)  
 APARTMENT/CONDO COMPLEXES (200 UNITS OR LESS)  
 MOBILE HOME COMPLEXES (200 LOTS OR LESS)



### PRIVATE DRIVE/ENTRANCE

1. 24 FT. OF PAVEMENT WIDTH
2. 8" X 24" X 14" @ 3000 PSI CURB AND GUTTER
3. 25 FOOT RADII ON CURBS

\* ADDITIONAL WIDENING MAY BE REQUIRED



**CITY OF NORCROSS**

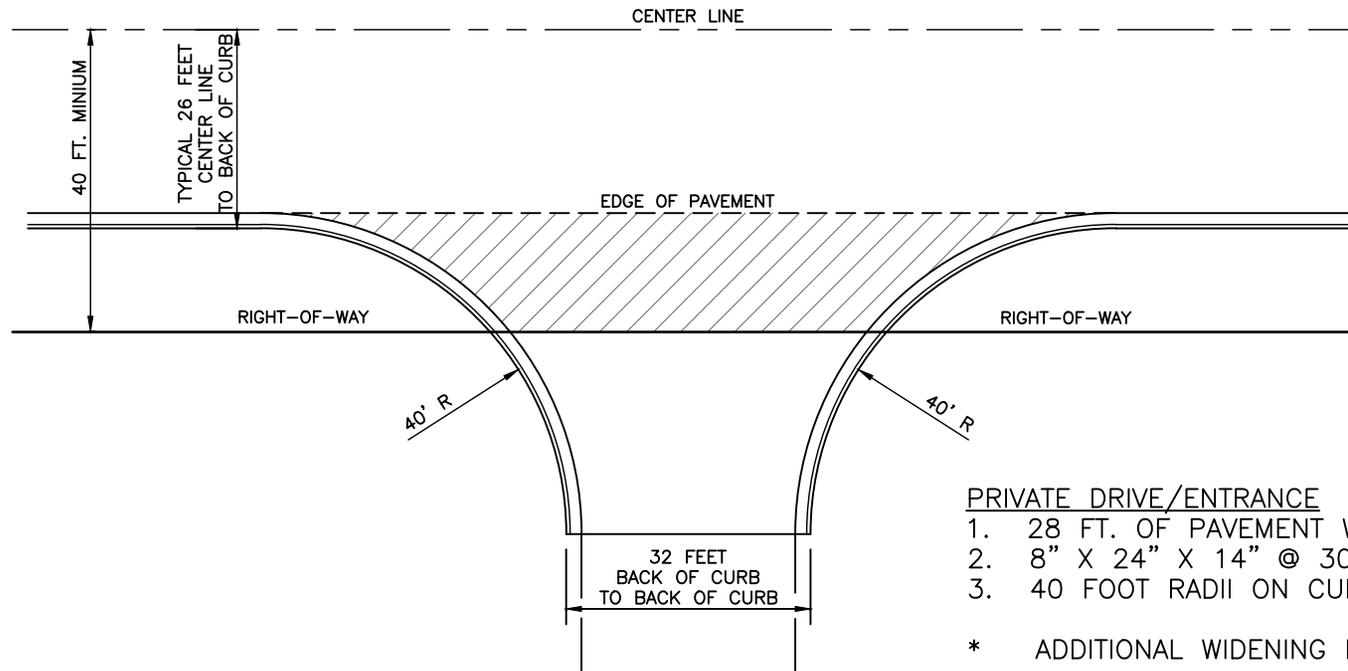
65 LAWRENCEVILLE ST.  
 NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**DRIVEWAY DETAIL NO.2**

**309**

# DRIVEWAY DETAIL NO.3 – 32 FT. WIDTH 40 FT. RADIUS



INDUSTRIAL SITES



**CITY OF NORCROSS**

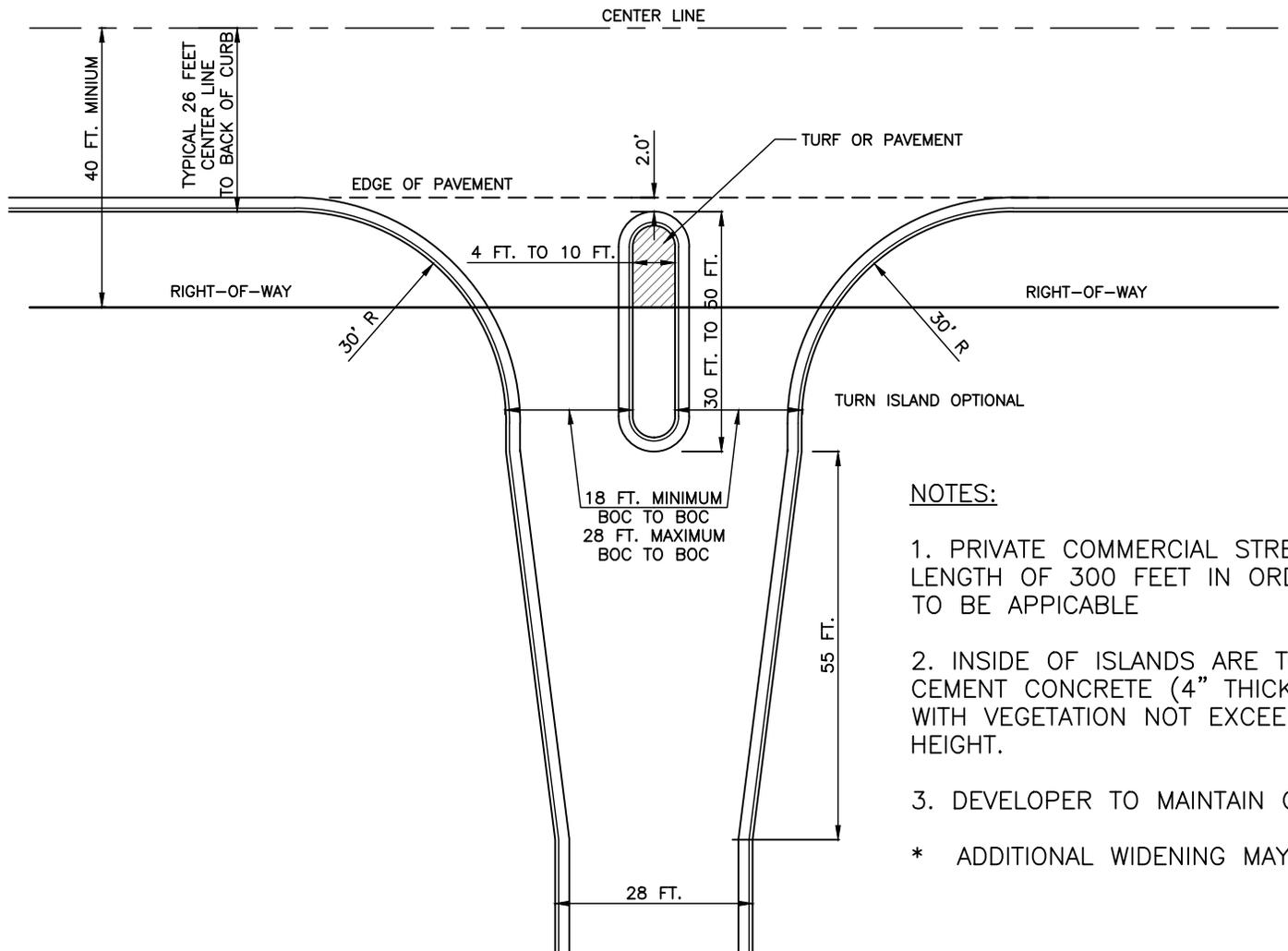
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**DRIVEWAY DETAIL NO.3**

**310**

# DRIVEWAY DETAIL NO.4 – (OPTIONAL)



## NOTES:

1. PRIVATE COMMERCIAL STREET MUST HAVE A MINIMUM LENGTH OF 300 FEET IN ORDER FOR THIS DRIVEWAY DETAIL TO BE APPLICABLE
  2. INSIDE OF ISLANDS ARE TO BE BACKFILL WITH PORTLAND CEMENT CONCRETE (4" THICK), OR GRASSED, OR PLANTED WITH VEGETATION NOT EXCEEDING TWENTY-FOUR INCHES IN HEIGHT.
  3. DEVELOPER TO MAINTAIN GRASSED OR PLANTED ISLAND.
- \* ADDITIONAL WIDENING MAY BE REQUIRED.



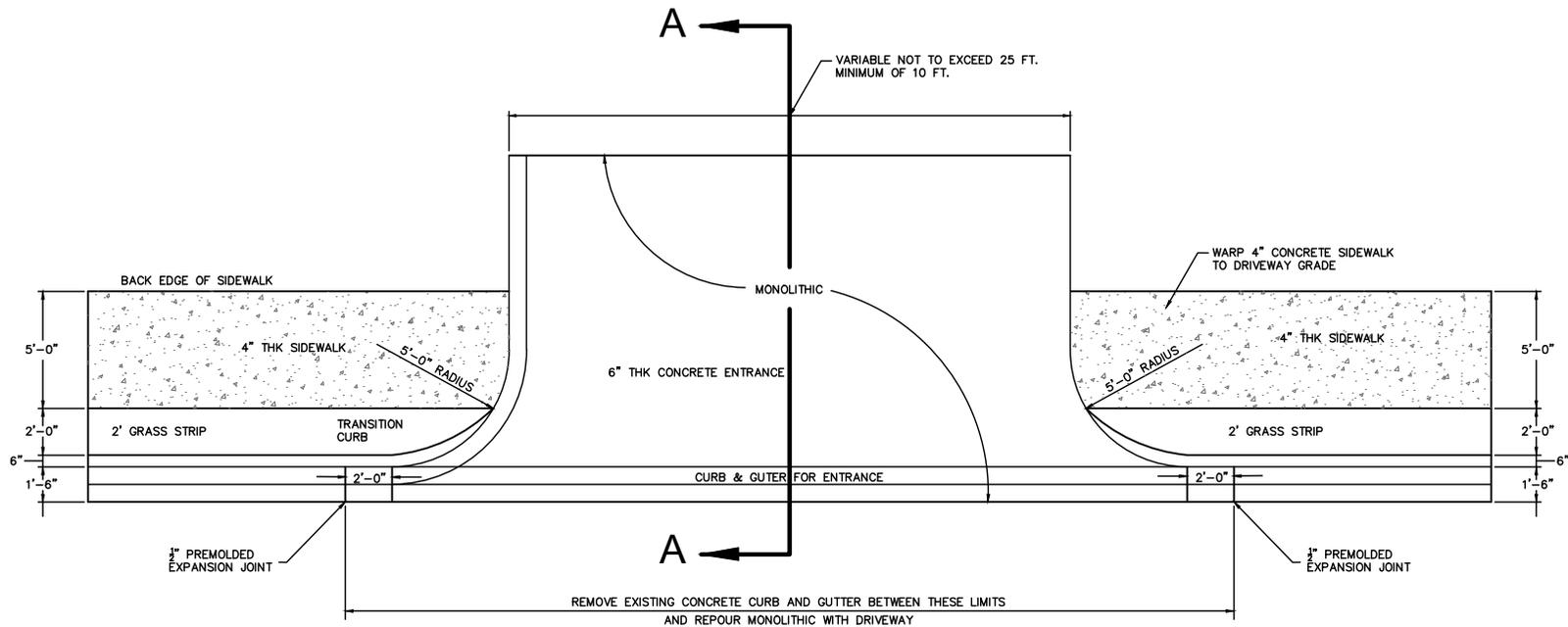
**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

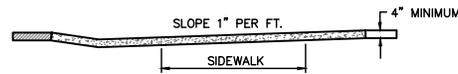
**DRIVEWAY DETAIL NO.4**

**311**



ALL CONCRETE SHALL BE 3000 PSI

PLAN



SECTION A-A



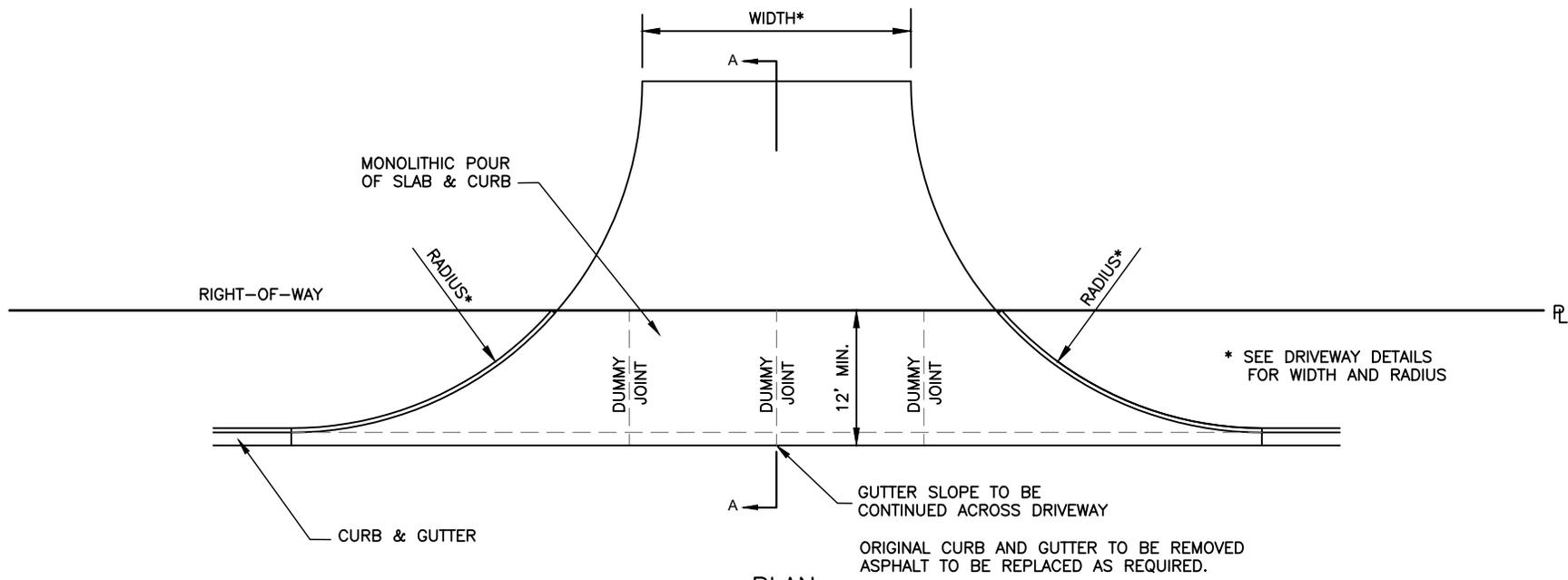
**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

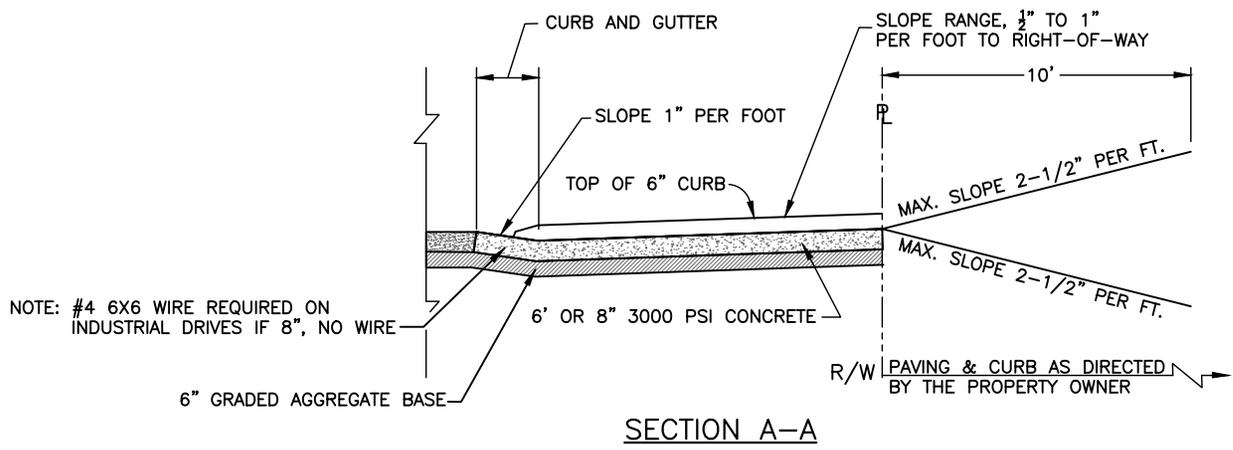
**STANDARD DETAILS**

**RESIDENTIAL DRIVEWAY ENTRANCE  
WITH SIDEWALK**

**312**



PLAN



SECTION A-A

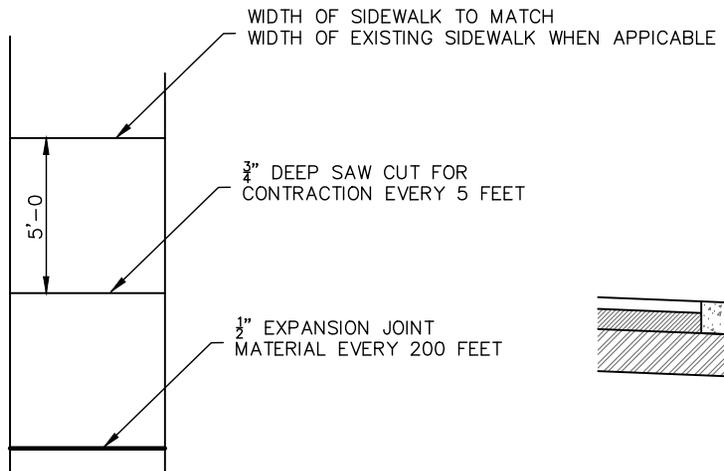


**CITY OF NORCROSS**

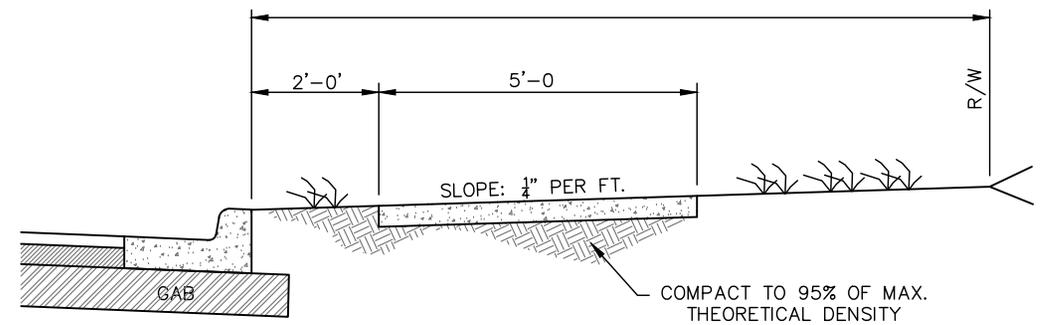
65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

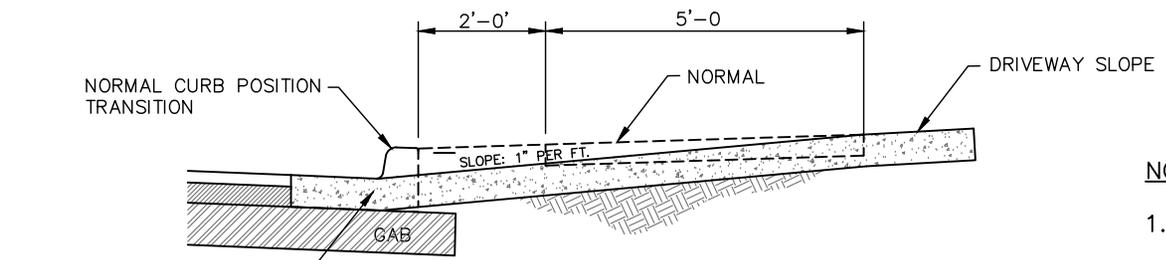
**COMMERCIAL AND INDUSTRIAL  
DRIVEWAYS**



PLAN  
N.T.S.



TYPICAL SECTION OF 5'-0" SIDEWALK  
N.T.S.



POUR GUTTER MONOLITHIC  
WITH DRIVEWAY

SIDEWALK SECTION AT DRIVEWAY  
N.T.S.

NOTES:

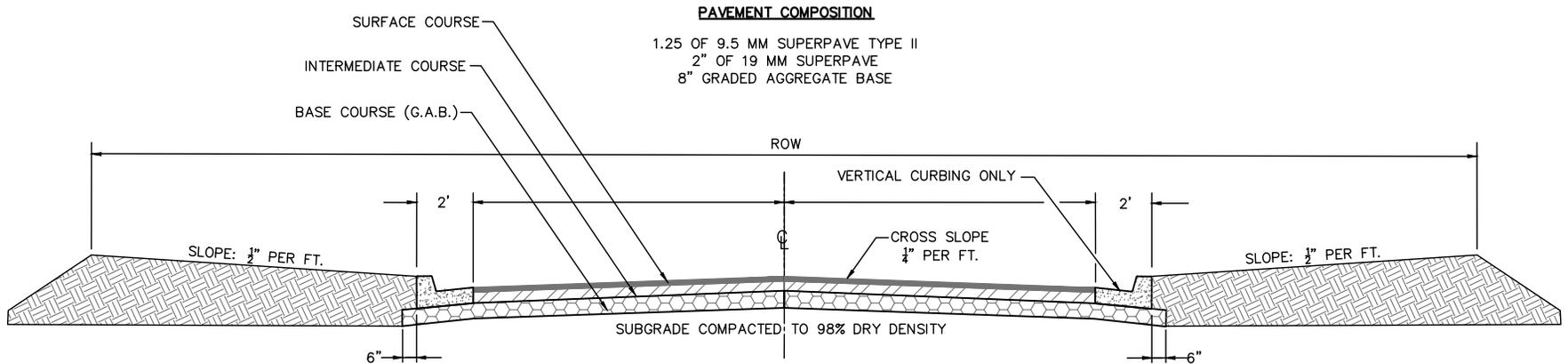
1. SIDEWALK TO BE CONSTRUCTED OF 3000 PSI CONCRETE AT 28 DAYS.
2. SIDEWALK TO BE 4 INCHES (4") THICK.
3. 1/2" PREMOLDED EXPANSION JOINT REQUIRED AT ALL DRIVEWAYS, CURB, ETC.



**CITY OF NORCROSS**  
65 LAWRENCEVILLE ST.  
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**STANDARD DETAILS**

**TYPICAL SIDEWALK  
SECTION**



N.T.S.

**LOCAL OR MINOR COLLECTOR STREETS IN RESIDENTIAL SUBDIVISIONS**

(STANDARD RESIDENTIAL SUBDIVISION STREET, SEE UDO FOR WIDTHS WITHIN  
OSC, TND, AND MIXED-USE DISTRICTS)

**NOTES:**

1. ANY AREAS OF INADEQUATELY COMPACTED FILL OR UNSUITABLE MATERIAL OF ANY NATURE SHALL BE REMOVED AND REPLACED WITH SUITABLE FILL IN WELL COMPACTED LAYERS TO AT LEAST 98% OF MAXIMUM DENSITY (AASHTO T-99), BEFORE ANY TYPE OF PAVING IS APPLIED.
2. NO CONTRACTOR SHALL BEGIN TO APPLY PAVING WITHOUT A RELEASE FROM THE DEPARTMENT, AND WILL BE HELD RESPONSIBLE FOR REPLACING ANY PAVING, BASE AND SUBGRADE WHICH MAY FAIL BECAUSE OF INADEQUATE SUBGRADE CONDITIONS, AS WELL AS FOR ORDINARY PAVING DEFICIENCIES.
3. VERTICAL CURBING ONLY - TO BE 6"x24"x12"



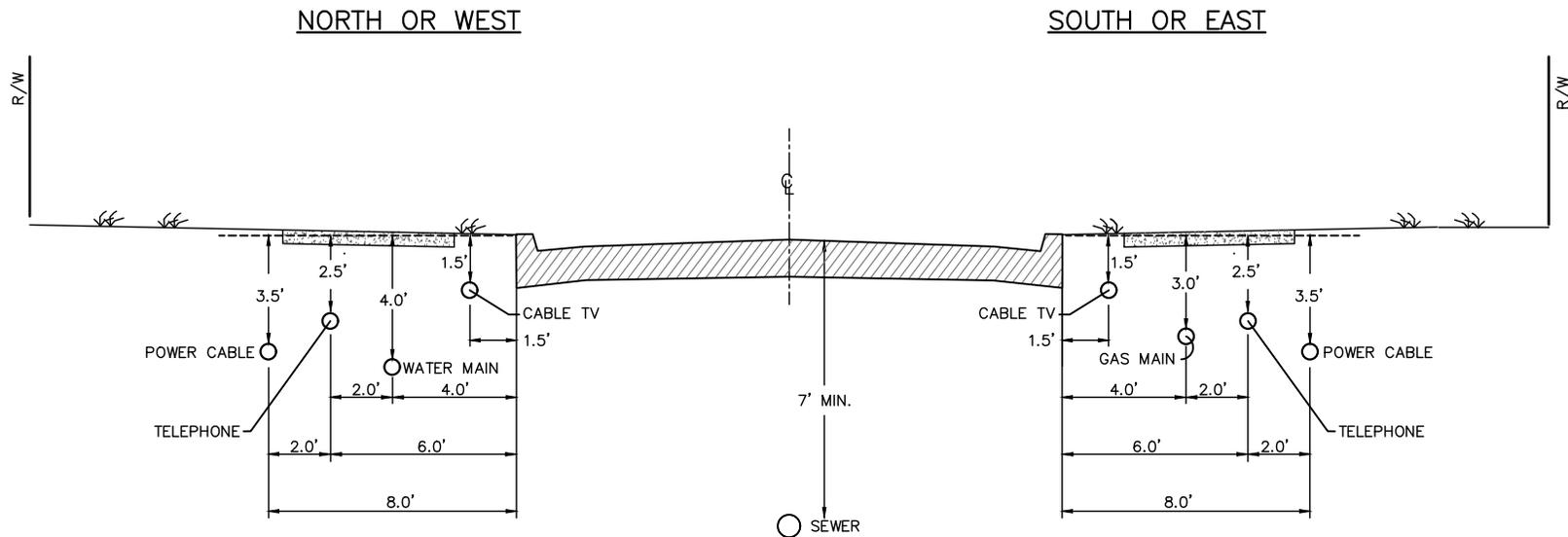
**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**RESIDENTIAL SUBDIVISION  
STREET**

**402**



**NOTES:**

1. THIS STANDARD DETAIL IS TO BE USED FOR UTILITY LOCATIONS WITHIN THE RIGHT-OF-WAY OF SUBDIVISIONS ONLY.
2. BEFORE ANY UTILITY IS INSTALLED, THE ENTIRE WIDTH OF THE RIGHT-OF-WAY SHALL BE ROUGH GRADED. SEE DEVELOPMENT REGULATIONS FOR TIMING OF WATER SYSTEM INSTALLATION.
3. IN GENERAL, THE DEEPEST UTILITIES SHOULD BE INSTALLED FIRST TO MINIMIZE ANY POSSIBLE INTERFERENCE WITH LATERALS OR SERVICES LINES.
4. IN CUL-DE-SAC OR EYEBROW TURNAROUNDS, THE DIMENSIONS FROM THE CURB SHALL VARY. HOWEVER, THE STANDARD UTILITY SPACING SHALL BE MAINTAINED.
5. BACKFILL OF ALL UTILITY TRENCHES CONSTRUCTED IN THE ROADWAY SHOULDER SHALL BE RETURNED TO 95% COMPACTION.

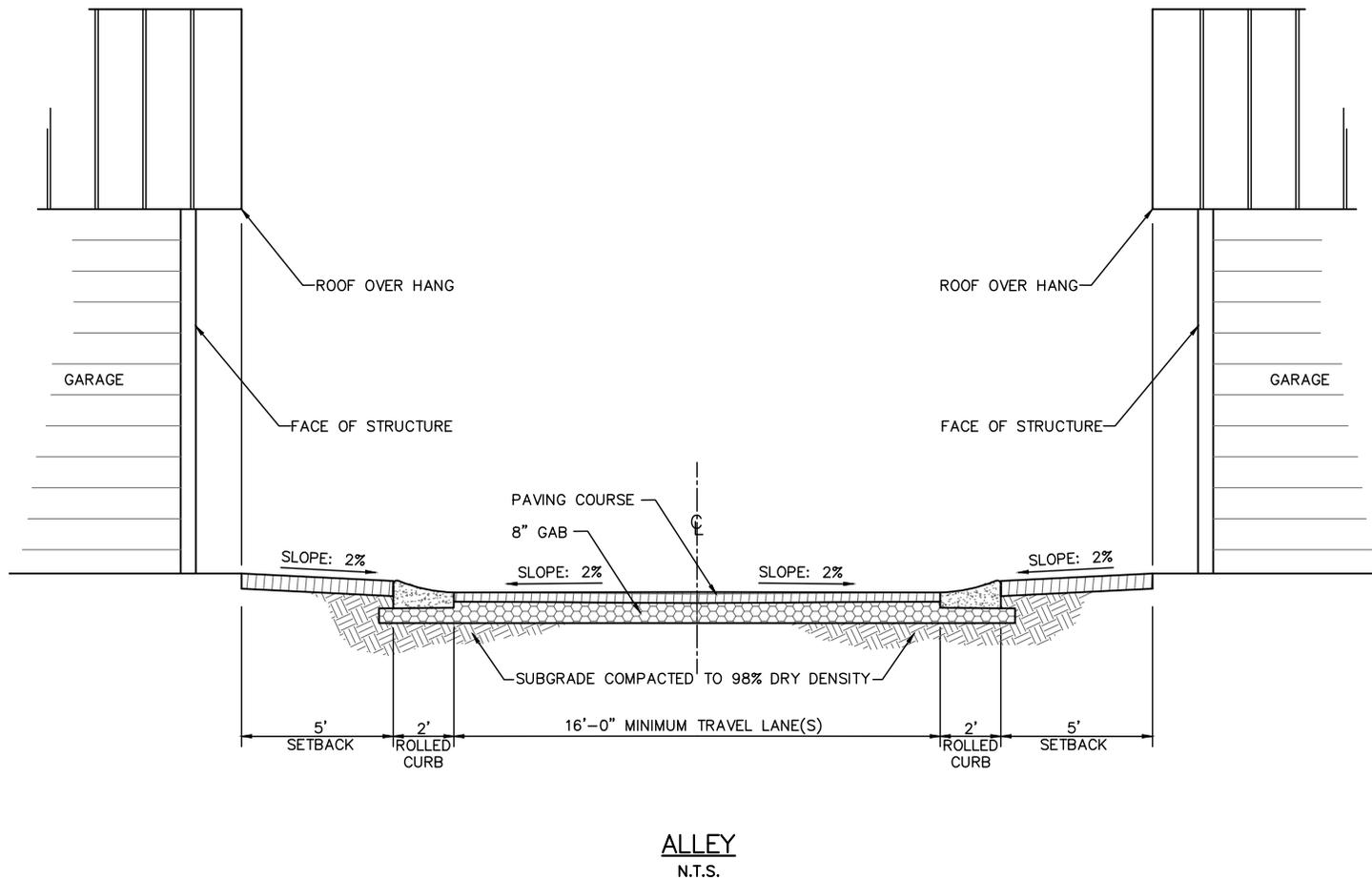
6. EACH UTILITY SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE THEY CREATE TO OTHER UTILITY LINES, OR TO THE STREET IMPROVEMENTS WITHIN THE RIGHT-OF-WAY. NO UTILITY SHALL BE RESPONSIBLE FOR DAMAGES TO ANOTHER UTILITY WHICH IS LOCATED OUTSIDE THEIR ASSIGNED SPACE.
7. ANYONE DIGGING IN THE RIGHT-OF-WAY SHALL CALL 811 TO HAVE UTILITIES LOCATED.
8. THIS DETAIL IS FOR GENERAL GUIDANCE ONLY. THE CONTRACTOR SHALL COORDINATE WITH EACH UTILITY PROVIDER AND OBTAIN THEIR APPROVAL.



**CITY OF NORCROSS**  
 65 LAWRENCEVILLE ST.  
 NW, NORCROSS, GA 30071

**STANDARD DETAILS**  
**UTILITY PLACEMENT**  
**IN RIGHT-OF-WAY**

**501**



**CITY OF NORCROSS**

65 LAWRENCEVILLE ST.  
NW, NORCROSS, GA 30071

**STANDARD DETAILS**

**ALLEY WAY  
TRAVEL LANE**

**A01**