CIVIL ENGINEER
THOMAS FIORELLO
SENIOR TRANSPORTATION ENGINEER
JED NIFFENEGGER, PE

THE CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CITY MANAGER

NANCY L. McFARLANE
MAYOR

2013 TRAFFIC CALMING MINOR PROJECTS
PUBLIC HEARING November 5, 2013

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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

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TRAFFIC CALMING PROJECT

2013 MINOR PROJECTS

DATE:

DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT
2013 MINOR PROJECTS

SHEET NO.
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DRAWING NO.
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DELANY DRIVE

2013 TRAFFIC CALMING PROJECT

MILBURNIE RD to GLASCOCK ST

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DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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DELANY CALMING 1	

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DELANY DRIVE

2013 TRAFFIC CALMING PROJECT

MILBURNIE RD to GLASCOCK ST

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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DELANY CALMING 2	

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DELANY DRIVE

2013 TRAFFIC CALMING PROJECT

MILBURNIE RD to GLASCOCK ST

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
2013 MINOR PROJECTS	
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DRAWING NO.	
DELANY CALMING 3	

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DELANY DRIVE

2013 TRAFFIC CALMING PROJECT

MILBURNIE RD to GLASCOCK ST

DATE:

DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT

2013 MINOR PROJECTS

SHEET NO.

SHEET 6 of 34

DRAWING NO.

DELANY CALMING 4

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARLTON DRIVE

2013 TRAFFIC CALMING PROJECT

FOX ROAD TO BENTLEY CIRCLE

DATE:	
DRAWN BY:	T FIGRELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
2013 MINOR PROJECTS	
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CARLTON CALMING 7	

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARLTON DRIVE

2013 TRAFFIC CALMING PROJECT

FOX ROAD TO BENTLEY CIRCLE

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
2013 MINOR PROJECTS	
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARLTON DRIVE

2013 TRAFFIC CALMING PROJECT

FOX ROAD TO BENTLEY CIRCLE

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CARLTON DRIVE

2013 TRAFFIC CALMING PROJECT

FOX ROAD TO BENTLEY CIRCLE

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
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CITY OF RALEIGH

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N KING CHARLES DR

2013 TRAFFIC CALMING PROJECT

NEW BERN AVE to MILBURNIE RD

DATE:	
DRAWN BY:	T FIGRELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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N KING CHARLES DR

2013 TRAFFIC CALMING PROJECT

NEW BERN AVE to MILBURNIE RD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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N KING CHARLES DR

2013 TRAFFIC CALMING PROJECT

NEW BERN AVE to MILBURNIE RD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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N KING CHARLES CALMING 3	

CITY OF RALEIGH

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CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
2013 MINOR PROJECTS	
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DRAWING NO.	
CARDINAL GROVE NORTH CALMING 2	

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
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NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CARDINAL GROVE - N

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CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
PROJECT	
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CARDINAL GROVE NORTH CALMING 6	

CITY OF RALEIGH

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CARDINAL GROVE - N

2013 TRAFFIC CALMING PROJECT

CARD. GROVE HOA LIMIT to KYLE DR

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CRANBROOK ROAD

2013 TRAFFIC CALMING PROJECT

SIX FORKS RD to SHELLEY ROAD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

CRANBROOK ROAD

2013 TRAFFIC CALMING PROJECT

SIX FORKS RD to SHELLEY ROAD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CRANBROOK ROAD

2013 TRAFFIC CALMING PROJECT

SIX FORKS RD to SHELLEY ROAD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

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CRANBROOK ROAD

2013 TRAFFIC CALMING PROJECT

SIX FORKS RD to SHELLEY ROAD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
REVISIONS	
NO.	DATE
1	2-7-2012
SCALES	
HSCALE:	
VSCALE: N/A	
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CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

BENNETT STREET

2013 TRAFFIC CALMING PROJECT

GLASCOCK ST to DENNIS AVE

DATE:

DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT

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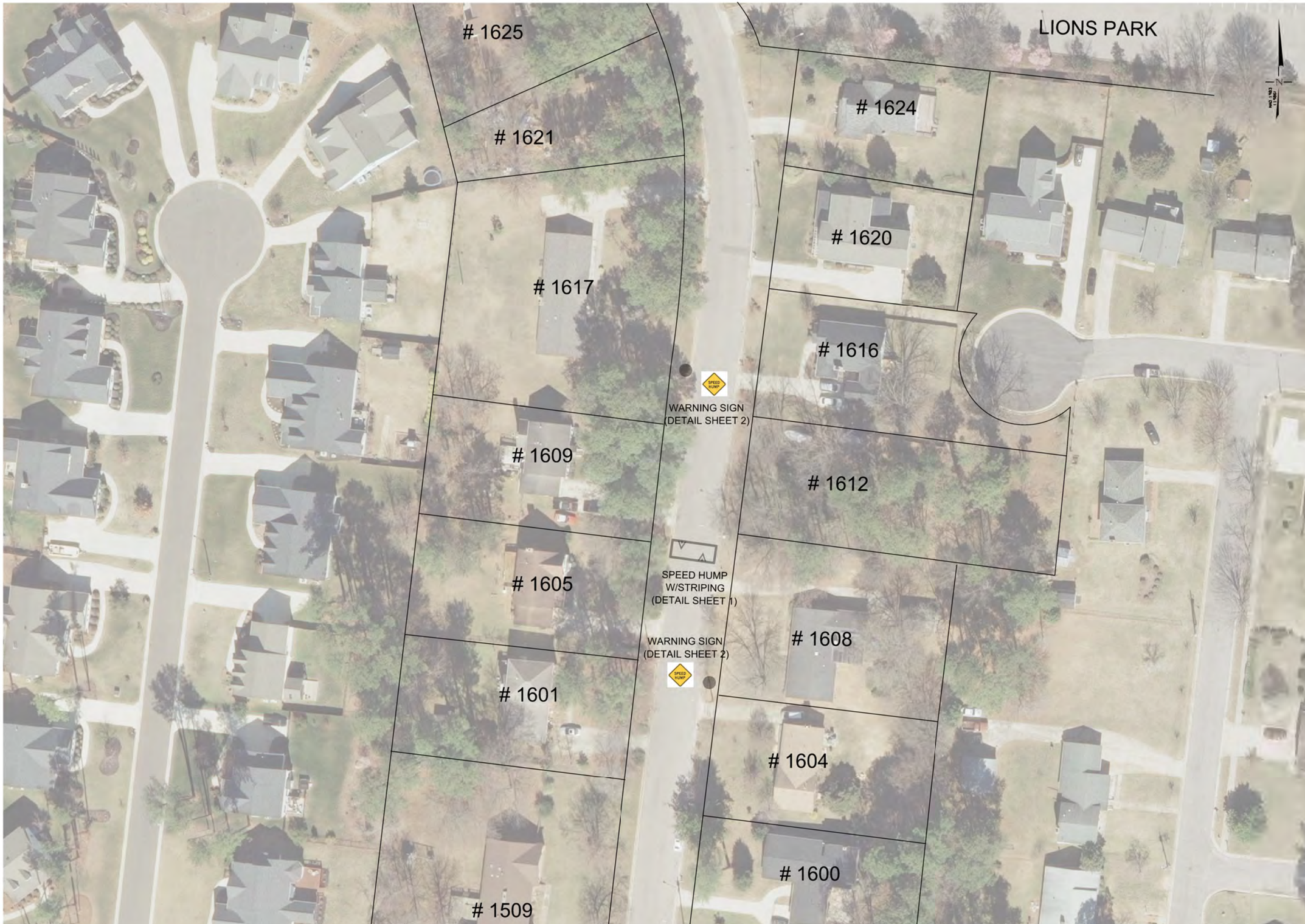
BENNETT CALMING 1



CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

BENNETT STREET

2013 TRAFFIC CALMING PROJECT

GLASCOCK ST to DENNIS AVE

DATE:

DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS	
NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

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BENNETT STREET

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GLASCOCK ST to DENNIS AVE

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SCALES	
HSCALE:	
VSCALE: N/A	
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BENNETT STREET

2013 TRAFFIC CALMING PROJECT

GLASCOCK ST to DENNIS AVE

DATE:

DRAWN BY: T FIORELLO

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NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

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BENNETT CALMING 4

CITY OF RALEIGH

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WHITEHALL AVENUE

2013 TRAFFIC CALMING PROJECT

BROCKTON DR to E MILLBROOK RD

DATE:	
DRAWN BY:	T FIORELLO
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REVISIONS	
NO.	DATE
SCALES	
HSCALE:	
VSCALE: N/A	
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WHITEHALL CALMING 1	

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WHITEHALL AVENUE

2013 TRAFFIC CALMING PROJECT

BROCKTON DR to E MILLBROOK RD

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VSCALE: N/A	
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WHITEHALL AVENUE

2013 TRAFFIC CALMING PROJECT

BROCKTON DR to E MILLBROOK RD

DATE:	
DRAWN BY:	T FIORELLO
CHECKED BY:	
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SCALES	
HSCALE:	
VSCALE: N/A	
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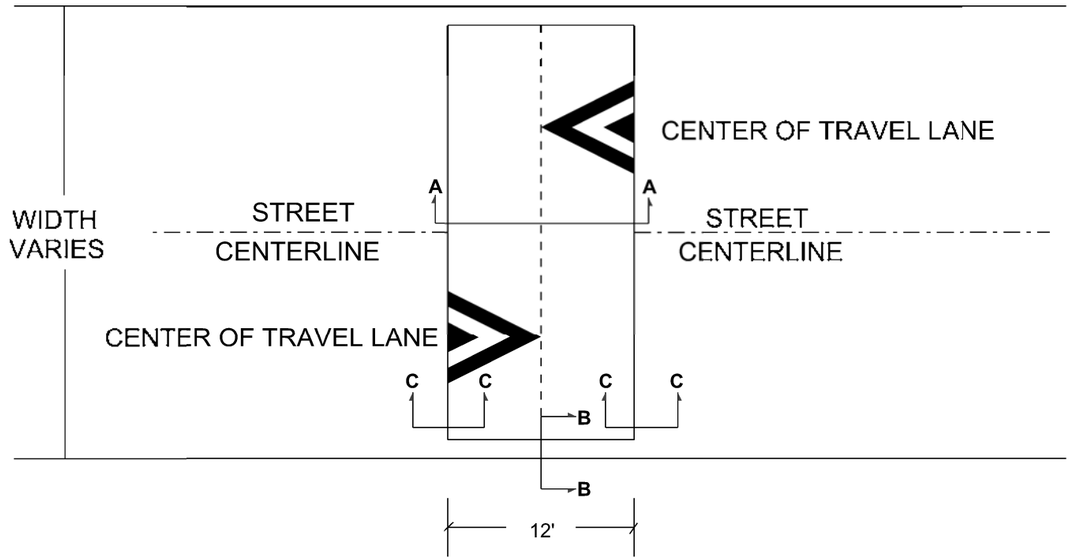
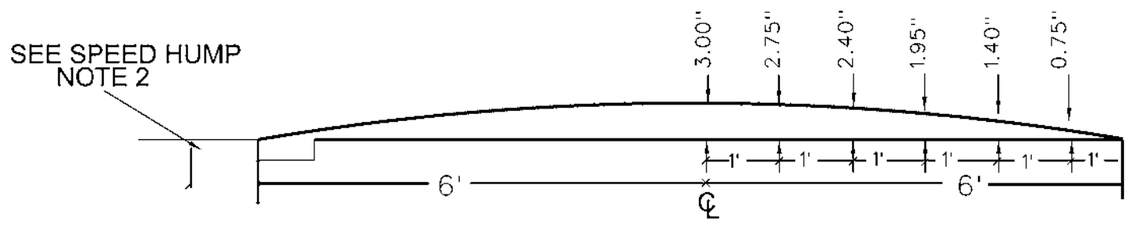
WHITEHALL CALMING 3	

SPEED HUMP DETAIL

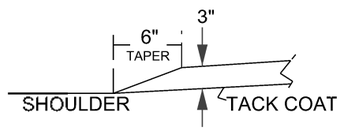


SECTION A - A

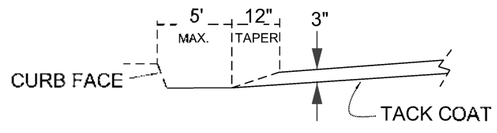


PARABOLIC CROWN

SECTION B - B

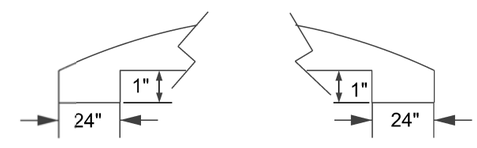


SHOULDER DETAIL FOR STREETS WITHOUT GUTTERS



GUTTER DETAIL FOR CURBED STREETS

SECTION C - C



FOOTING DETAIL

CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DETAIL SHEET 1

TRAFFIC CALMING PROJECT

2013 MINOR PROJECTS

DATE:

DRAWN BY: T FIORELLO

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REVISIONS

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SCALES

HSCALE:

VSCALE: N/A

PROJECT
2013 MINOR PROJECTS

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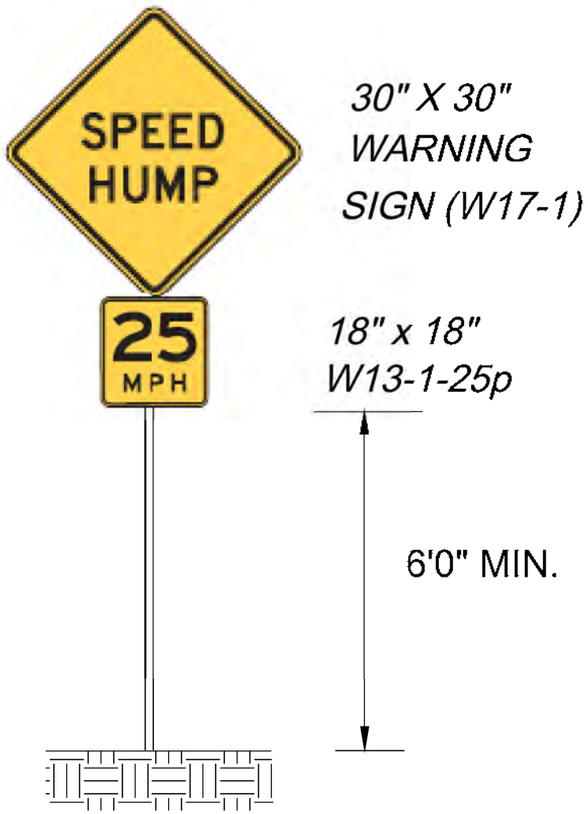
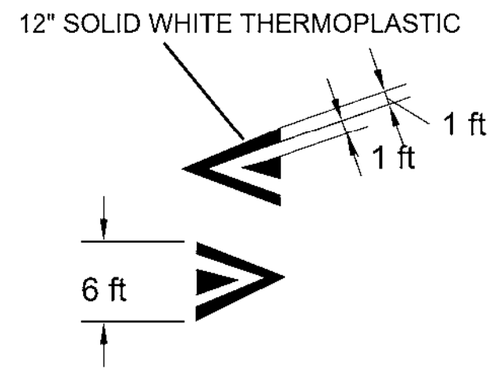
DETAIL SHEET 1

SIGN AND STRIPING DETAILS



APPROACH ARCH STRIPING



CITY OF RALEIGH

PUBLIC WORKS DEPARTMENT

DETAIL SHEET 2

TRAFFIC CALMING PROJECT

2013 MINOR PROJECTS

DATE:

DRAWN BY: T FIORELLO

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE:

VSCALE: N/A

PROJECT
2013 MINOR PROJECTS

SHEET NO.
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DRAWING NO.
DETAIL SHEET 2

General Notes:

1. All Work To Be Done In Accordance With NCDOT and City of Raleigh Standard Specifications.
2. Property and Right-of-Way is from GIS information and not Actual Survey
3. All Traffic-Calming Treatments to be Marked in Field by City of Raleigh Staff Prior to Installation.
4. Treatments May Require Advance Striping Based on Roadway Geometry.

Speed Hump Notes:

1. All Speed Humps to be Installed Per Speed Hump Detail Shown on Detail Sheet 1.
2. Asphaltic Concrete Shall Be NCDOT Type S9.5B.
3. Grind Minimum 24" Wide By 1" Deep Keyway In Existing AC Aligned with Leading Edges of Speed Hump.
4. Maximum Tolerance on Height of Speed Hump to be Plus or Minus 1/4"

Sign Notes:

1. All Signs To Be Installed Per MUTCD Standards.
2. All Warning Signs To Be "Speed Hump" (W17-1) 30"x 30" Black on Yellow. (See Sign Detail, Detail Sheet 2)
3. All Advisory Speed Plaques To Be "25 MPH" (W13-1p), 18" x 18", Black on Yellow. (See Sign Detail, Detail Sheet 2)
4. All Signs Shall be High-Intensity Prismatic Sheeting or Equivalent.

Striping Notes:

1. All Speed Hump Chevrons To Be Installed Per Approach Arch Striping Detail on Detail Sheet 2.

CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT

GENERAL NOTES
TRAFFIC CALMING PROJECT
2013 MINOR PROJECTS

DATE:
DRAWN BY: T FIORELLO
CHECKED BY:

REVISIONS	
NO.	DATE

SCALES
HSCALE:
VSCALE: N/A

PROJECT
2013 MINOR PROJECTS

SHEET NO.
SHEET 34 of 34

DRAWING NO.
GENERAL NOTES