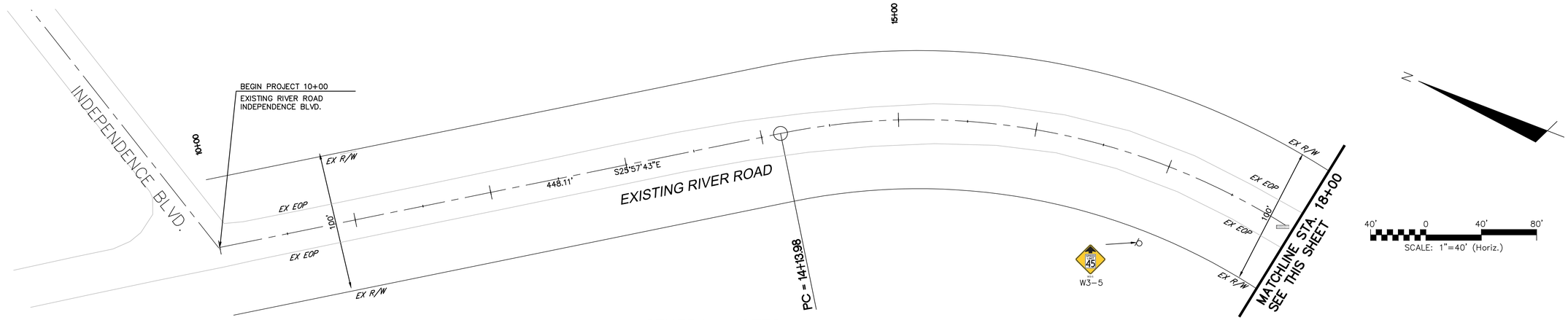


GENERAL NOTES:

1. LANE LINES AND TURN LANES TO HAVE REFLECTIVE MARKERS (SEE DETAIL SHEET PM-10).
2. STRIPING AND MARKINGS IN DRIVEWAY STUBS TO BE APPLIED WHEN DRIVEWAYS ARE COMPLETED.
3. ALL PEDESTRIAN AND BICYCLE SIGNS SHOULD BE HIGH INTENSITY FLUORESCENT YELLOW-GREEN.
4. ALL YELLOW AND WHITE PAVEMENT MARKINGS SHALL BE RETRO-REFLECTIVE PER NC DOT STANDARDS [PER SECTION 1087, SECTION 1205 AND TABLE 1087-1].
5. PAVEMENT REFLECTIVE MARKERS SHALL BE BASED ON NC DOT STANDARDS [PER SECTION 1086, SECTION 1250 AND SECTION 1251].
6. ALL DO NOT ENTER AND WRONG WAY SIGNS SHOULD BE ANGLED APPROXIMATELY 45 DEGREES TOWARD THE INTENDED DRIVERS.

THERMOPLASTIC PAVEMENT MARKING MATERIALS

PAVEMENT MARKING LINES:

---------- THERMOPLASTIC (4", 90 mils)
TA - WHITE EDGE LINE
TB - YELLOW EDGE LINE
---------- THERMOPLASTIC (4", 120 mils)
TC - 10 ft. WHITE SKIP
TD - 2 ft. WHITE MINI SKIP
TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
TM - 10 ft. YELLOW SKIP
TN - 2 ft. YELLOW MINI SKIP
---------- THERMOPLASTIC (8", 90 mils)
TO - WHITE EDGE LINE
TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10

---------- THERMOPLASTIC (8", 120 mils)
TU - 3 ft. WHITE MINI SKIP
TV - WHITE CROSSWALK
TW - YELLOW SINGLE CENTER LINE
TX - YELLOW DOUBLE YELLOW CENTER LINE
---------- THERMOPLASTIC (12", 90 mils)
TY - WHITE GORE LINE
---------- THERMOPLASTIC (12", 120 mils)
TZ - 3 ft. WHITE MINI SKIP - 3 ft. SPACING
---------- THERMOPLASTIC (16", 120 mils)
T1 - WHITE LINE FOR RR CROSS BUCK
---------- THERMOPLASTIC (24", 120 mils)
T2 - WHITE STOP BAR
T3 - WHITE CROSSWALK LINE
---------- THERMOPLASTIC (4", 240 mils)
T4 - WHITE RUMBLE STRIP
T5 - YELLOW RUMBLE STRIP

PAVEMENT MARKING SYMBOLS

---------- THERMOPLASTIC (90 mils)
UA - LEFT TURN ARROW
UB - RIGHT TURN ARROW
UC - STRAIGHT ARROW
UD - COMBINATION STRAIGHT & LEFT TURN ARROW
UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
UF - COMBINATION LEFT & RIGHT TURN ARROW
UG - COMBINATION LEFT, RIGHT, & STRAIGHT ARROW

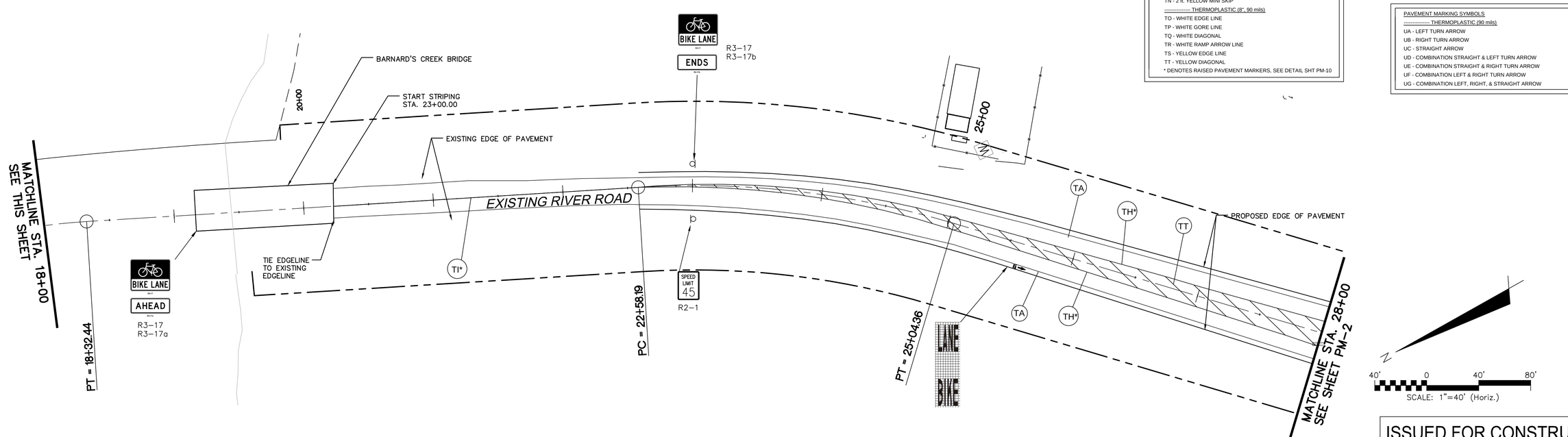
CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

1 inch

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.



ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048 , Fax: (910)251-8282
License: F-1222
www.mckimcreed.com

Newland COMMUNITIES

NASH North America Science House, LLC

RIVER ROAD

PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 10+00 – STA 28+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-101
DRAWING NUMBER PM-1

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

S:\2735\0007\00-Drawings\CP\101-02735\0007.dwg, 11/19/2014 7:04:16 PM, kespinoza,
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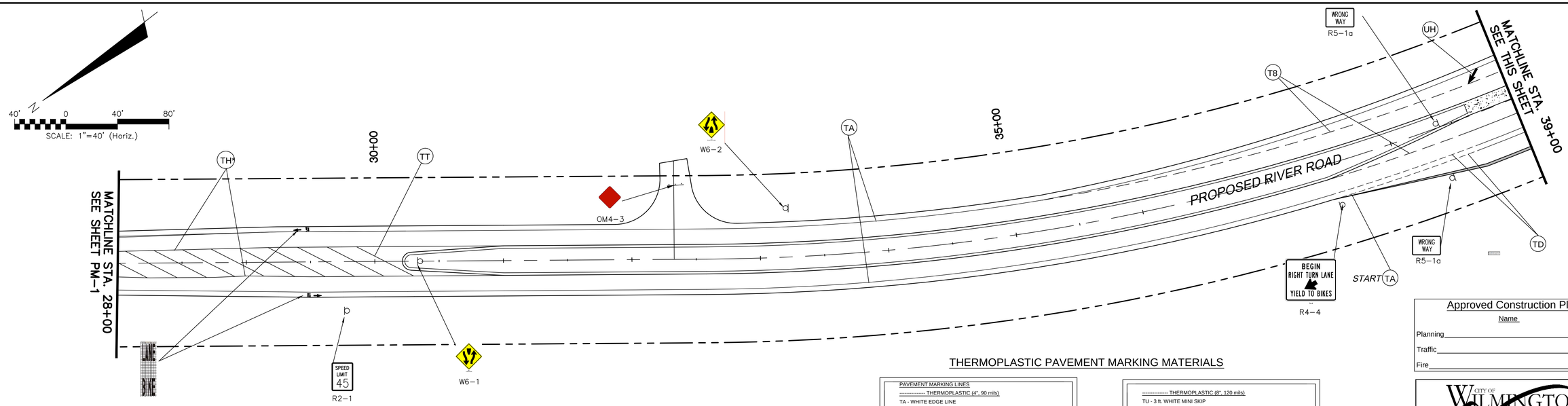

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
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APPROVED STORMWATER MANAGEMENT PLAN
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1 inch

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PAVEMENT MARKING LINES
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TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
TM - 10 ft. YELLOW SKIP
TN - 2 ft. YELLOW MINI SKIP
---------- THERMOPLASTIC (8", 90 mils)
TO - WHITE EDGE LINE
TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10

---------- THERMOPLASTIC (8", 120 mils)
TU - 3 ft. WHITE MINI SKIP
TV - WHITE CROSSWALK
TW - YELLOW SINGLE CENTER LINE
TX - YELLOW DOUBLE YELLOW CENTER LINE
---------- THERMOPLASTIC (12", 90 mils)
TY - WHITE GORE LINE
---------- THERMOPLASTIC (12", 120 mils)
TZ - 3 ft. WHITE MINI SKIP - 3 ft. SPACING
---------- THERMOPLASTIC (16", 120 mils)
T1 - WHITE LINE FOR RR CROSS BUCK
---------- THERMOPLASTIC (24", 120 mils)
T2 - WHITE STOP BAR
T3 - WHITE CROSSWALK LINE
---------- THERMOPLASTIC (4", 240 mils)
T4 - WHITE RUMBLE STRIP
T5 - YELLOW RUMBLE STRIP

PAVEMENT MARKING SYMBOLS
---------- THERMOPLASTIC (90 mils)
UB - RIGHT TURN ARROW
UA - LEFT TURN ARROW
UC - STRAIGHT ARROW
UD - COMBINATION STRAIGHT & LEFT TURN ARROW
UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
UF - COMBINATION LEFT & RIGHT TURN ARROW
UG - COMBINATION LEFT, RIGHT, & STRAIGHT ARROW
UH - MERGE ARROW

GENERAL NOTES:

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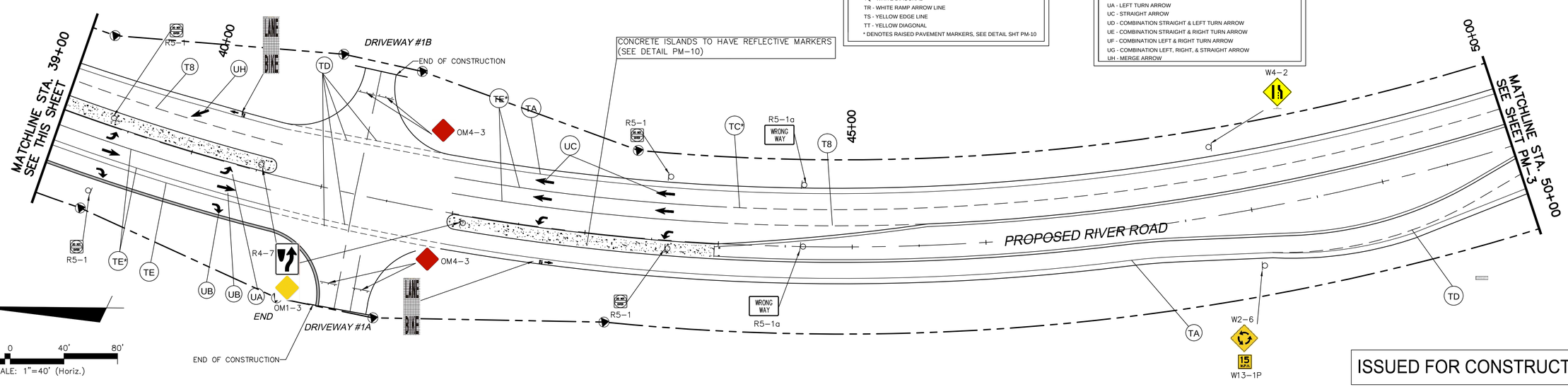

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Newland COMMUNITIES

NASH North America Science House, LLC

RIVER ROAD

PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 28+00 TO STA 50+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

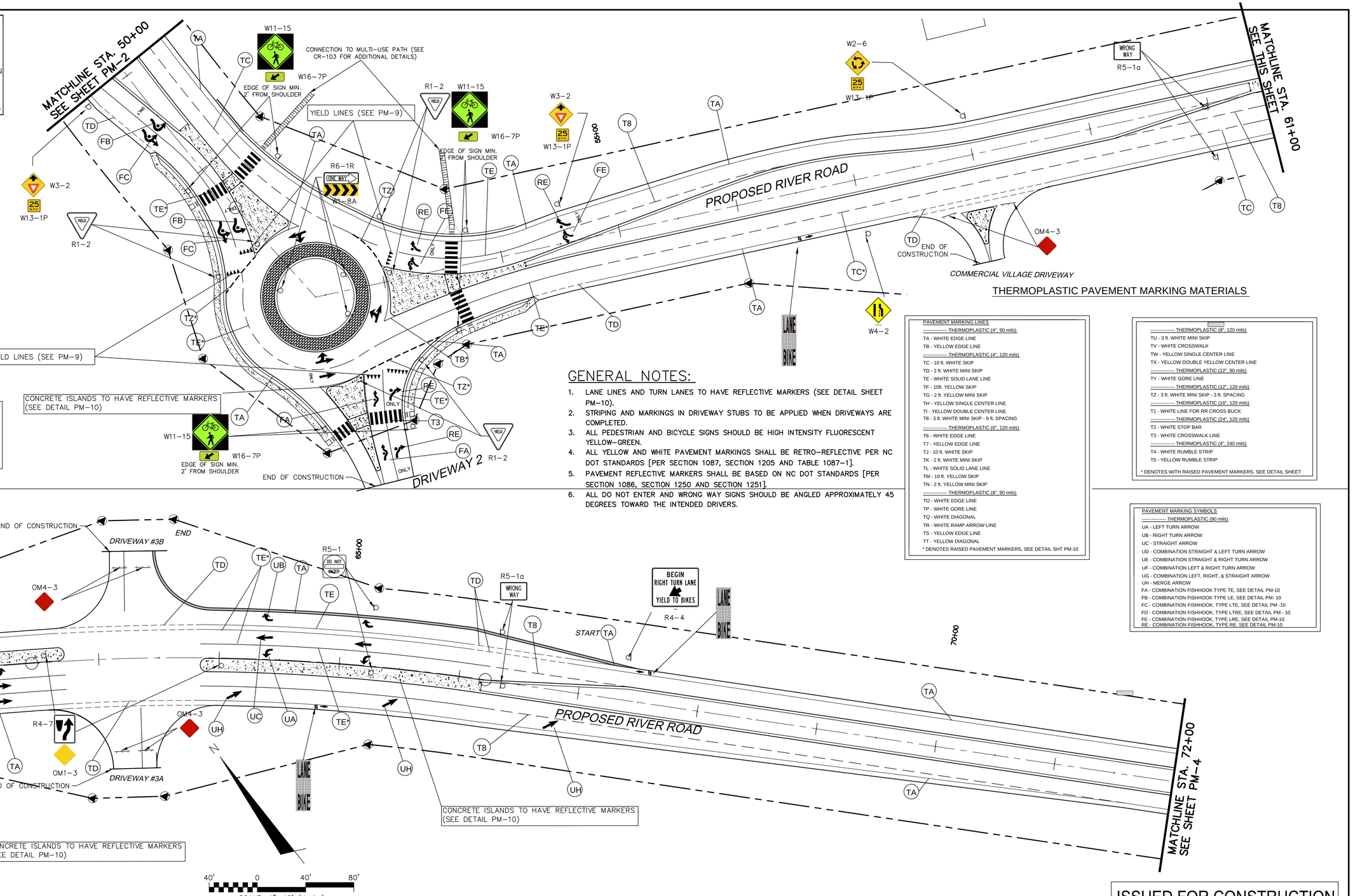
SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-102
DRAWING NUMBER PM-2

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

S:\2735\0007\00-Drawings\CP102-02735\0007.dwg, 11/19/2014 6:59:49 PM, kespinoza,
ANSI full bleed D (22.00 x 34.00 inches),1:1

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____



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1 inch

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

GENERAL NOTES:

1. LANE LINES AND TURN LANES TO HAVE REFLECTIVE MARKERS (SEE DETAIL SHEET PM-10).
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THERMOPLASTIC PAVEMENT MARKING MATERIALS

PAVEMENT MARKING LINES
---------- THERMOPLASTIC (4", 90 mils)
TA - WHITE EDGE LINE
TB - YELLOW EDGE LINE
---------- THERMOPLASTIC (4", 120 mils)
TC - 10 ft. WHITE SKIP
TD - 2 ft. WHITE MINI SKIP
TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
TM - 10 ft. YELLOW SKIP
TN - 2 ft. YELLOW MINI SKIP
---------- THERMOPLASTIC (8", 90 mils)
TO - WHITE EDGE LINE
TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10

PAVEMENT MARKING LINES
---------- THERMOPLASTIC (8", 120 mils)
TU - 3 ft. WHITE MINI SKIP
TV - WHITE CROSSWALK
TW - YELLOW SINGLE CENTER LINE
TX - YELLOW DOUBLE YELLOW CENTER LINE
---------- THERMOPLASTIC (12", 90 mils)
TY - WHITE GORE LINE
---------- THERMOPLASTIC (12", 120 mils)
TZ - 3 ft. WHITE MINI SKIP - 3 ft. SPACING
---------- THERMOPLASTIC (16", 120 mils)
T1 - WHITE LINE FOR RR CROSS BUCK
---------- THERMOPLASTIC (24", 120 mils)
T2 - WHITE STOP BAR
T3 - WHITE CROSSWALK LINE
---------- THERMOPLASTIC (4", 240 mils)
T4 - WHITE RUMBLE STRIP
T5 - YELLOW RUMBLE STRIP
* DENOTES WITH RAISED PAVEMENT MARKERS, SEE DETAIL SHEET

PAVEMENT MARKING SYMBOLS
---------- THERMOPLASTIC (90 mils)
UA - LEFT TURN ARROW
UB - RIGHT TURN ARROW
UC - STRAIGHT ARROW
UD - COMBINATION STRAIGHT & LEFT TURN ARROW
UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
UF - COMBINATION LEFT & RIGHT TURN ARROW
UG - COMBINATION LEFT, RIGHT, & STRAIGHT ARROW
UH - MERGE ARROW
FA - COMBINATION FISHHOOK TYPE TE, SEE DETAIL PM-10
FB - COMBINATION FISHHOOK TYPE LE, SEE DETAIL PM- 10
FC - COMBINATION FISHHOOK, TYPE LTE, SEE DETAIL PM -10
FD - COMBINATION FISHHOOK, TYPE LTRE, SEE DETAIL PM - 10
FE - COMBINATION FISHHOOK, TYPE LRE, SEE DETAIL PM-10
RE - COMBINATION FISHHOOK, TYPE RE, SEE DETAIL PM-10

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
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Newland COMMUNITIES

NASH North America Sikhism House, LLC

RIVER ROAD

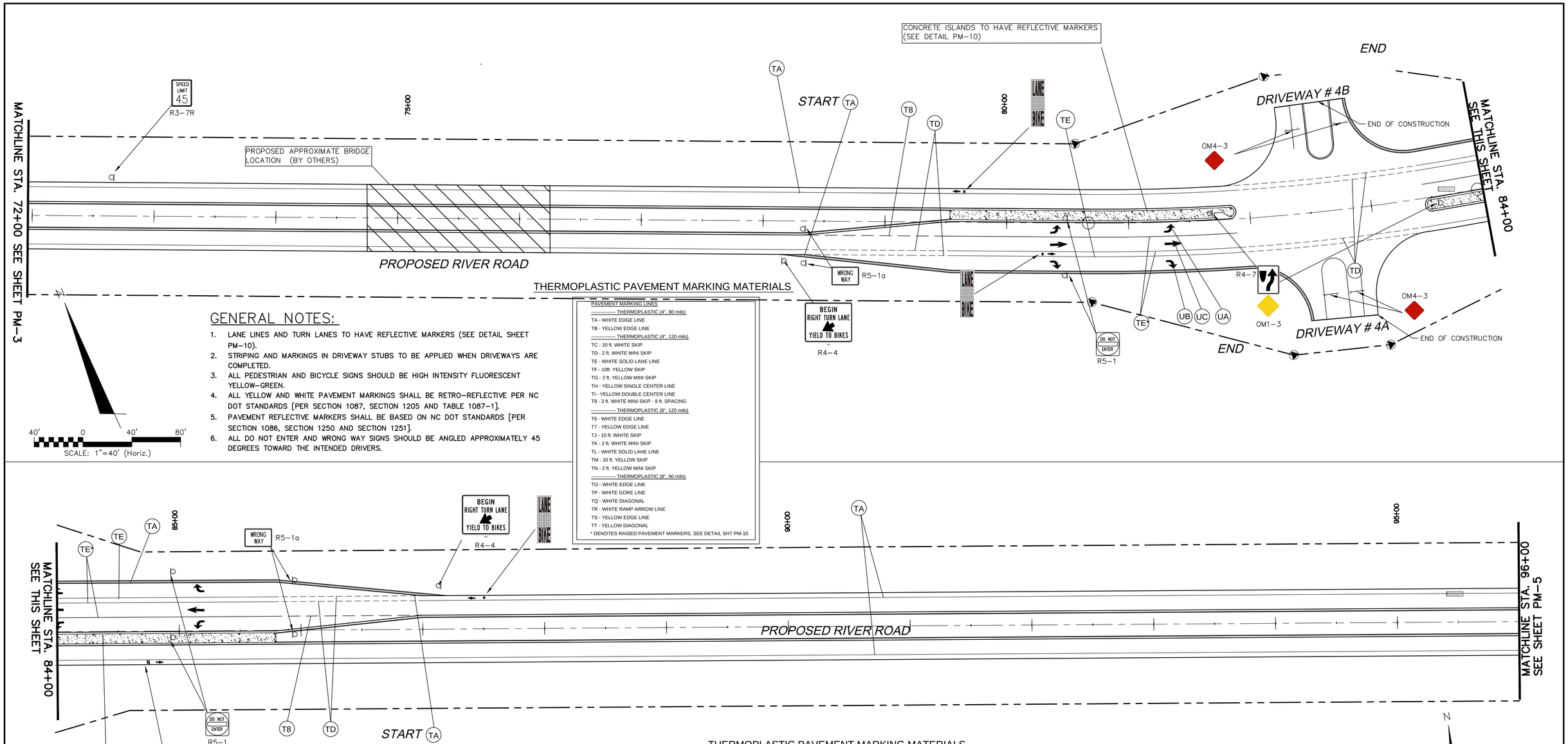
PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 50+00 TO STA 72+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-103
DRAWING NUMBER PM-3

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION



GENERAL NOTES:

1. LANE LINES AND TURN LANES TO HAVE REFLECTIVE MARKERS (SEE DETAIL SHEET PM-10).
2. STRIPING AND MARKINGS IN DRIVEWAY STUBS TO BE APPLIED WHEN DRIVEWAYS ARE COMPLETED.
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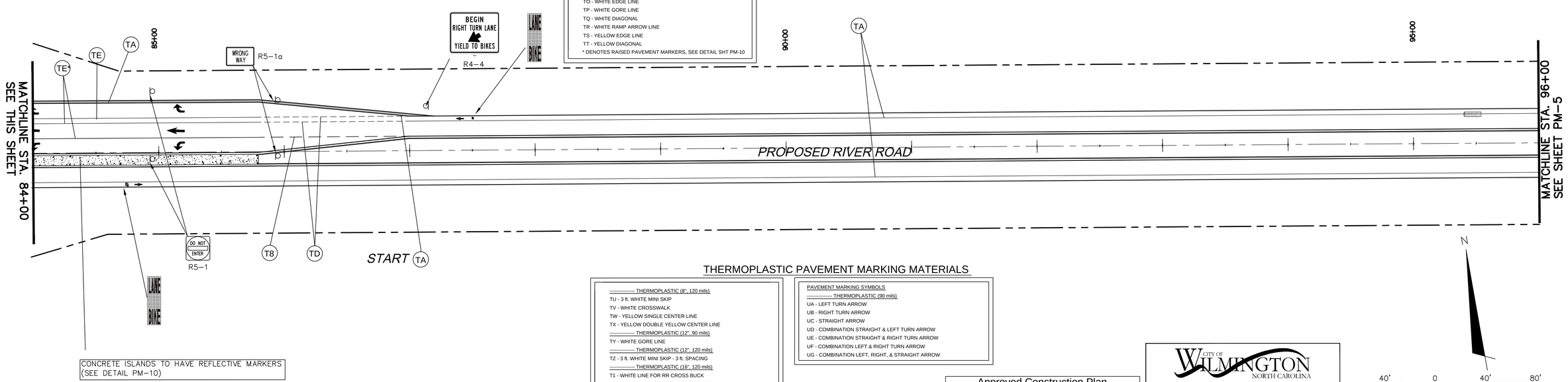
PAVEMENT MARKING LINES

---------- THERMOPLASTIC (4", 90 mils)
TA - WHITE EDGE LINE
TB - YELLOW EDGE LINE
---------- THERMOPLASTIC (4", 120 mils)
TC - 10 ft. WHITE SKIP
TD - 2 ft. WHITE MINI SKIP
TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
TM - 10 ft. YELLOW SKIP
TN - 2 ft. YELLOW MINI SKIP
---------- THERMOPLASTIC (8", 90 mils)
TO - WHITE EDGE LINE
TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10



---------- THERMOPLASTIC (8", 120 mils)
TU - 3 ft. WHITE MINI SKIP
TV - WHITE CROSSWALK
TW - YELLOW SINGLE CENTER LINE
TX - YELLOW DOUBLE YELLOW CENTER LINE
---------- THERMOPLASTIC (12", 90 mils)
TY - WHITE GORE LINE
---------- THERMOPLASTIC (12", 120 mils)
TZ - 3 ft. WHITE MINI SKIP - 3 ft. SPACING
---------- THERMOPLASTIC (16", 120 mils)
T1 - WHITE LINE FOR RR CROSS BUCK
---------- THERMOPLASTIC (24", 120 mils)
T2 - WHITE STOP BAR
T3 - WHITE CROSSWALK LINE
---------- THERMOPLASTIC (4", 240 mils)
T4 - WHITE RUMBLE STRIP
T5 - YELLOW RUMBLE STRIP

PAVEMENT MARKING SYMBOLS

---------- THERMOPLASTIC (90 mils)
UA - LEFT TURN ARROW
UB - RIGHT TURN ARROW
UC - STRAIGHT ARROW
UD - COMBINATION STRAIGHT & LEFT TURN ARROW
UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
UF - COMBINATION LEFT & RIGHT TURN ARROW
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1 inch

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Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

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Newland® COMMUNITIES

NASH North America Science House, LLC

RIVER ROAD

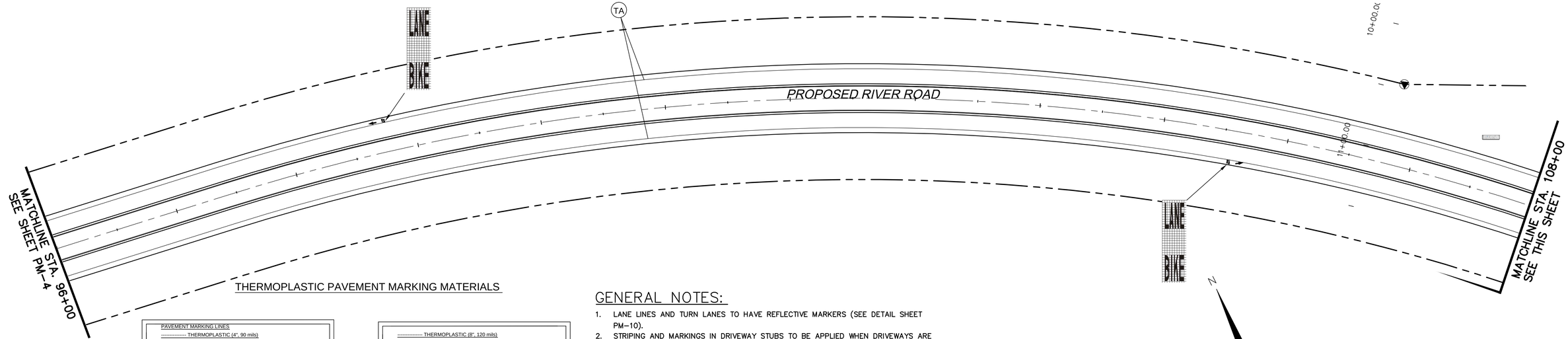
PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 72+00 TO STA 96+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-104
DRAWING NUMBER PM-4

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION



THERMOPLASTIC PAVEMENT MARKING MATERIALS

PAVEMENT MARKING LINES

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TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
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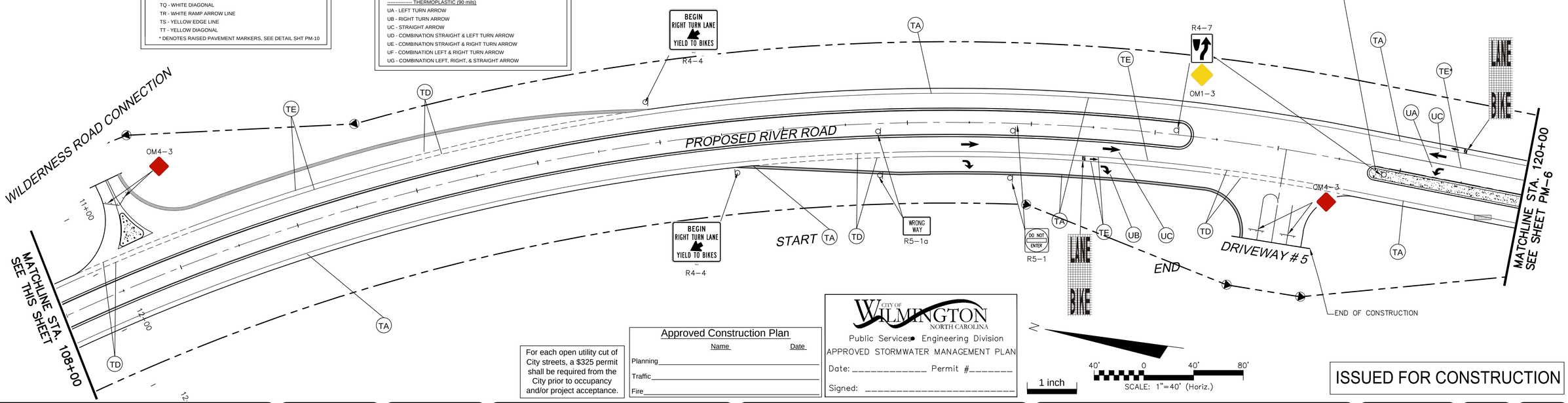
N

40' 0 40' 80'
SCALE: 1"=40' (Horiz.)

CONCRETE ISLANDS TO HAVE REFLECTIVE MARKERS (SEE DETAIL PM-10)



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SCALE: 1"=40' (Horiz.)

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Planning		
Traffic		
Fire		

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1 inch

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NASH North America Science House, LLC

RIVER ROAD

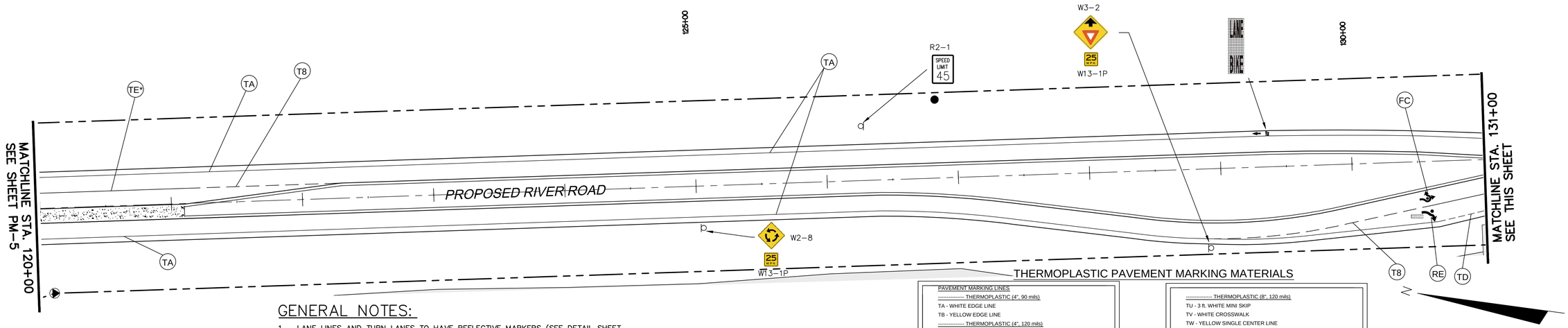
PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 96+00 – STA 120+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-105
DRAWING NUMBER PM-5

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION



GENERAL NOTES:

1. LANE LINES AND TURN LANES TO HAVE REFLECTIVE MARKERS (SEE DETAIL SHEET PM-10).
2. STRIPING AND MARKINGS IN DRIVEWAY STUBS TO BE APPLIED WHEN DRIVEWAYS ARE COMPLETED.
3. ALL PEDESTRIAN AND BICYCLE SIGNS SHOULD BE HIGH INTENSITY FLUORESCENT YELLOW-GREEN.
4. ALL YELLOW AND WHITE PAVEMENT MARKINGS SHALL BE RETRO-REFLECTIVE PER NC DOT STANDARDS [PER SECTION 1087, SECTION 1205 AND TABLE 1087-1].
5. PAVEMENT REFLECTIVE MARKERS SHALL BE BASED ON NC DOT STANDARDS [PER SECTION 1086, SECTION 1250 AND SECTION 1251].
6. ALL DO NOT ENTER AND WRONG WAY SIGNS SHOULD BE ANGLED APPROXIMATELY 45 DEGREES TOWARD THE INTENDED DRIVERS.

THERMOPLASTIC PAVEMENT MARKING MATERIALS

PAVEMENT MARKING LINES

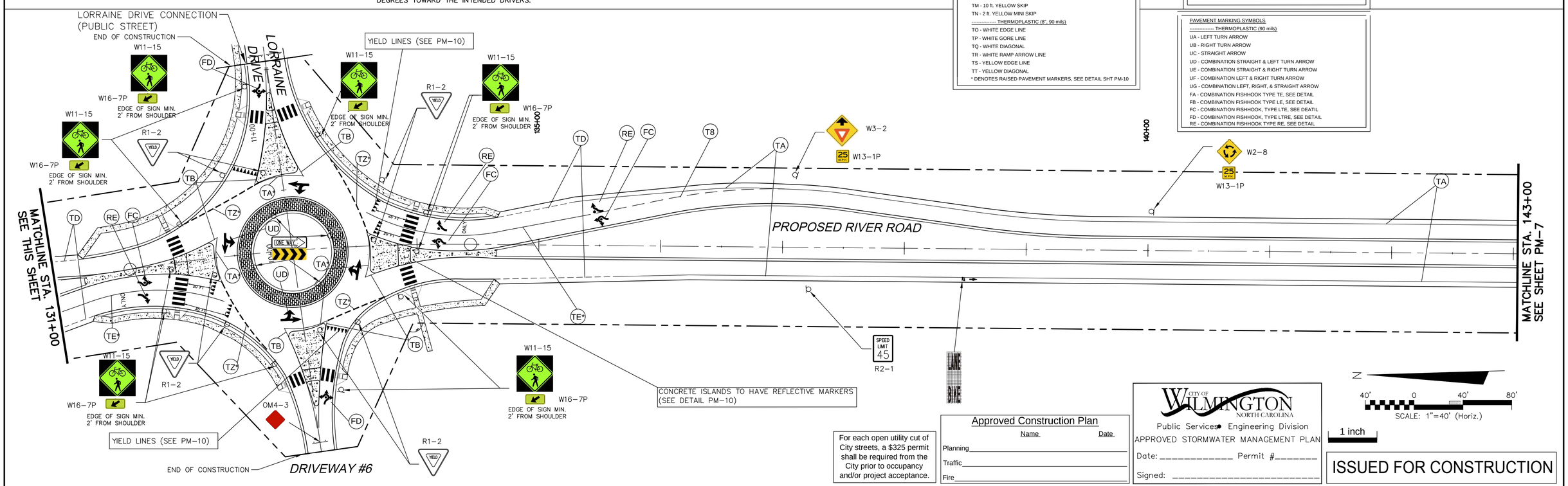
---------- THERMOPLASTIC (4", 90 mils)
TA - WHITE EDGE LINE
TB - YELLOW EDGE LINE
---------- THERMOPLASTIC (4", 120 mils)
TC - 10 ft. WHITE SKIP
TD - 2 ft. WHITE MINI SKIP
TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
TM - 10 ft. YELLOW SKIP
TN - 2 ft. YELLOW MINI SKIP
---------- THERMOPLASTIC (8", 90 mils)
TO - WHITE EDGE LINE
TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10

---------- THERMOPLASTIC (8", 120 mils)
TU - 3 ft. WHITE MINI SKIP
TV - WHITE CROSSWALK
TW - YELLOW SINGLE CENTER LINE
TX - YELLOW DOUBLE YELLOW CENTER LINE
---------- THERMOPLASTIC (12", 90 mils)
TY - WHITE GORE LINE
---------- THERMOPLASTIC (12", 120 mils)
TZ - 3 ft. WHITE MINI SKIP - 3 ft. SPACING
---------- THERMOPLASTIC (16", 120 mils)
T1 - WHITE LINE FOR RR CROSS BUCK
---------- THERMOPLASTIC (24", 120 mils)
T2 - WHITE STOP BAR
T3 - WHITE CROSSWALK LINE
---------- THERMOPLASTIC (4", 240 mils)
T4 - WHITE RUMBLE STRIP
T5 - YELLOW RUMBLE STRIP

PAVEMENT MARKING SYMBOLS

---------- THERMOPLASTIC (90 mils)
UA - LEFT TURN ARROW
UB - RIGHT TURN ARROW
UC - STRAIGHT ARROW
UD - COMBINATION STRAIGHT & LEFT TURN ARROW
UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
UF - COMBINATION LEFT & RIGHT TURN ARROW
UG - COMBINATION LEFT, RIGHT, & STRAIGHT ARROW
FA - COMBINATION FISHHOOK TYPE TE, SEE DETAIL
FB - COMBINATION FISHHOOK TYPE LE, SEE DETAIL
FC - COMBINATION FISHHOOK, TYPE LTE, SEE DEATIL
FD - COMBINATION FISHHOOK, TYPE LTRE, SEE DETAIL
RE - COMBINATION FISHHOOK TYPE RE, SEE DETAIL

40' 0 40' 80'
SCALE: 1"=40' (Horiz.)



For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048 , Fax: (910)251-8282
License: F-1222
www.mckimcreed.com

Newland® COMMUNITIES

NASH North America Science House, LLC

RIVER ROAD

PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 120+00 – STA 143+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-106
DRAWING NUMBER PM-6

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

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ANSI full bleed D (22.00 x 34.00 Inches),1:1

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
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Approved Construction Plan

	Name	Date
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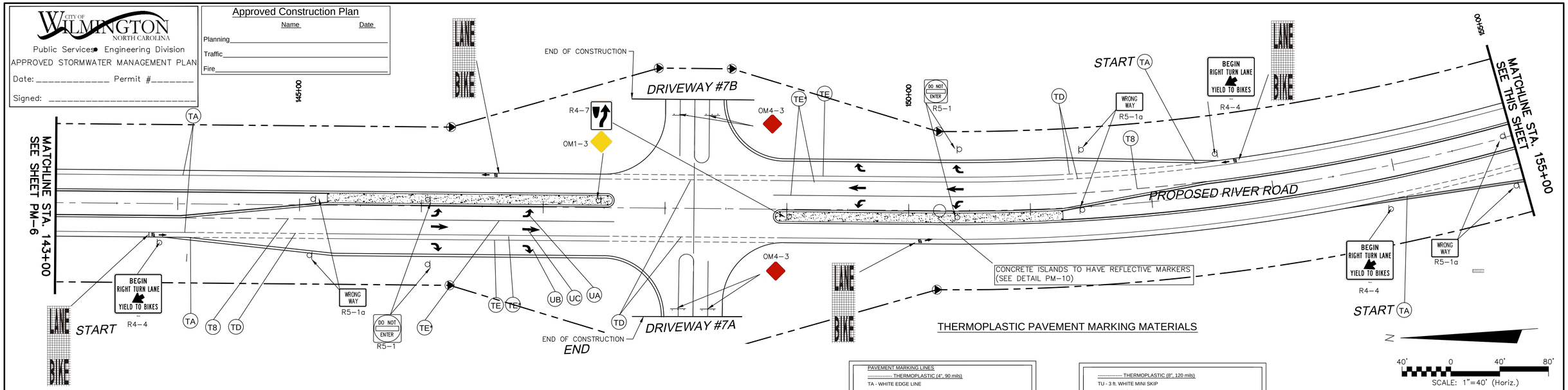

THERMOPLASTIC PAVEMENT MARKING MATERIALS

PAVEMENT MARKING LINES:
---------- THERMOPLASTIC (4", 90 mils)
TA - WHITE EDGE LINE
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TE - WHITE SOLID LANE LINE
TF - 10ft. YELLOW SKIP
TG - 2 ft. YELLOW MINI SKIP
TH - YELLOW SINGLE CENTER LINE
TI - YELLOW DOUBLE CENTER LINE
T8 - 3 ft. WHITE MINI SKIP - 9 ft. SPACING
---------- THERMOPLASTIC (6", 120 mils)
T6 - WHITE EDGE LINE
T7 - YELLOW EDGE LINE
TJ - 10 ft. WHITE SKIP
TK - 2 ft. WHITE MINI SKIP
TL - WHITE SOLID LANE LINE
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TN - 2 ft. YELLOW MINI SKIP
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TP - WHITE GORE LINE
TQ - WHITE DIAGONAL
TR - WHITE RAMP ARROW LINE
TS - YELLOW EDGE LINE
TT - YELLOW DIAGONAL
* DENOTES RAISED PAVEMENT MARKERS, SEE DETAIL SHT PM-10

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GENERAL NOTES:

1. LANE LINES AND TURN LANES TO HAVE REFLECTIVE MARKERS (SEE DETAIL SHEET PM-10).
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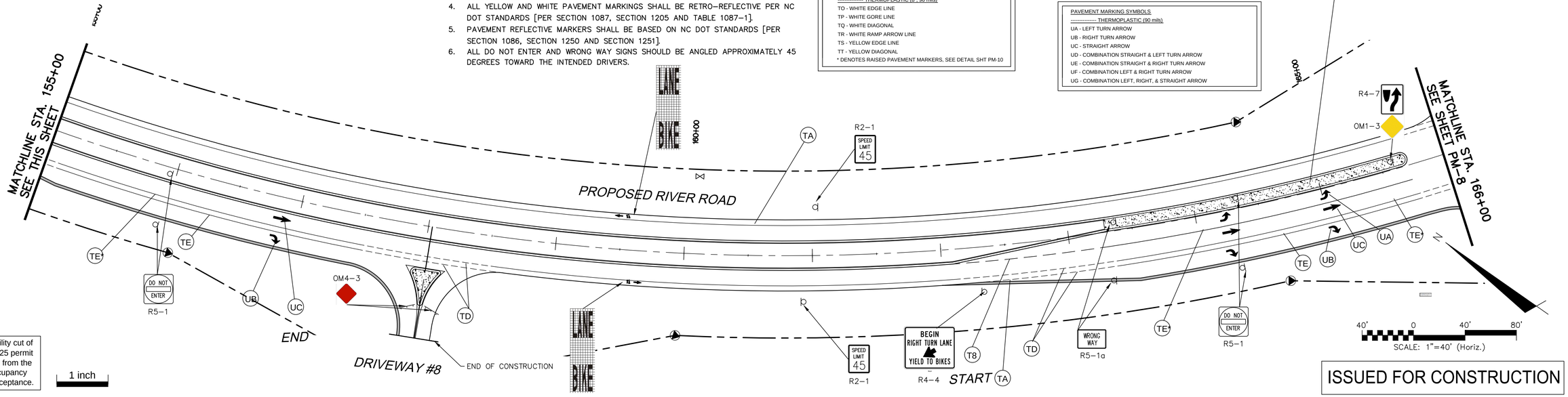

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1 inch

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
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REVISIONS

SEAL

SEAL

McKIM&CREED
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Newland COMMUNITIES

NASH North America Sensio House, LLC

RIVER ROAD

PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 143+00 – STA 166+00

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-107
DRAWING NUMBER PM-7

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

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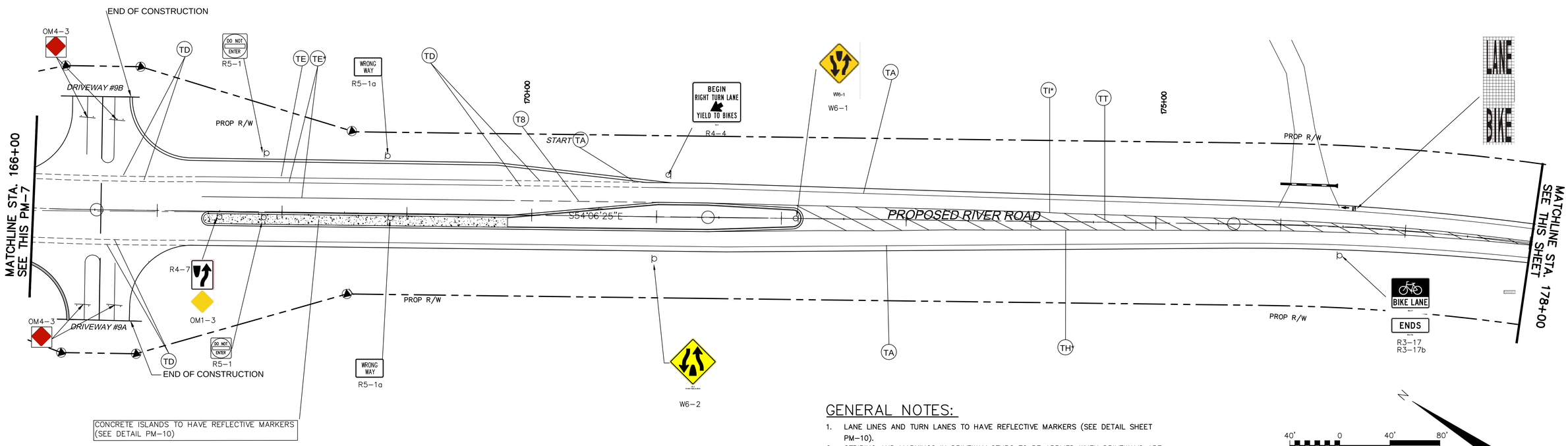

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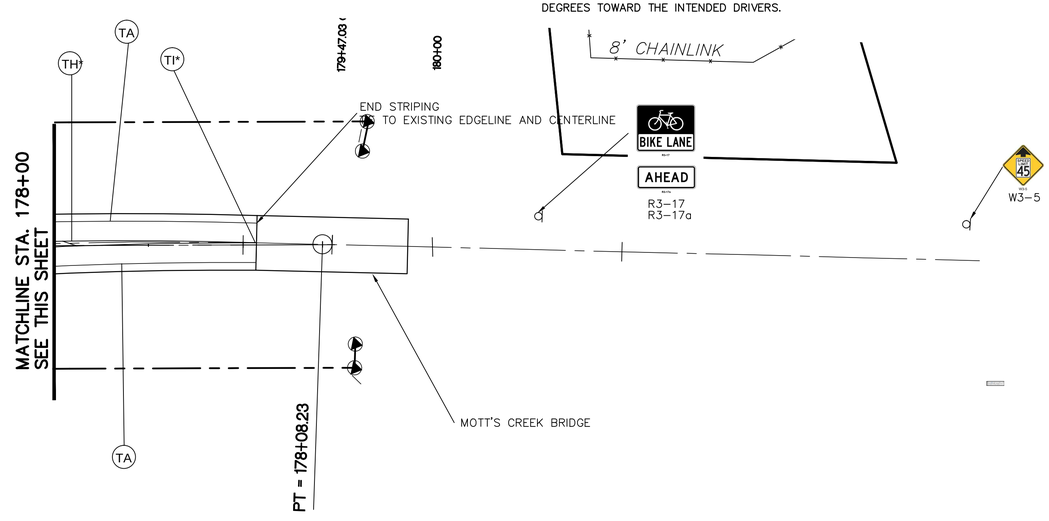

1 inch

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Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

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REV.NO.	DESCRIPTIONS	DATE
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REVISIONS

SEAL

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Newland COMMUNITIES

NASH North America Scottish House, LLC

RIVER ROAD

PAVEMENT MARKING AND SIGN PLANS
PROPOSED RIVER ROAD
STA 166+00 – STA 179+47

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-108
DRAWING NUMBER PM-8

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

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ANSI full bleed (22.00 x 34.00 Inches),1:1

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** LINE TYPES AND OFFSETS

CONTINUOUS LINES

EDGE LINE — YELLOW OR WHITE — 4"/6"

LANE LINE — WHITE — 4"/6"

CENTER LINE — YELLOW — 4"/6"

GORE LINE — WHITE — 8"/12"

DIAGONAL LINE — YELLOW OR WHITE — 12" 45 MPH OR HIGHER; 8" LESS THAN 45 MPH

CROSSWALK LINE — WHITE — 8" TRANSVERSE; 24" LONGITUDINAL

RxR LINE — WHITE — 16"

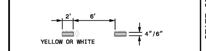
STOP OR TRANSVERSE BAR — WHITE — 24"

10'-30'/SP SKIP LINE

UNLESS OTHERWISED SHOWN, USE 10'-30'/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.

2'-6'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 2'-6'/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



3'-3'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-3'/SP MINI-SKIPS FOR THE WHITE EDGE LINE EXTENSIONS AT ROUNDABOUTS.

3'-9'/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3'-9'/SP MINI-SKIPS FOR MINI-SKIP LANE LINES AND LINE EXTENSIONS THROUGH TAPERS.

GENERAL NOTES:

1- USE 8" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.

2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

SHEET 1 OF 2 **1205.01**

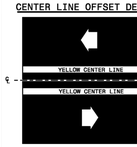
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** LINE TYPES AND OFFSETS

EDGE LINE OFFSET DETAIL

CENTER LINE OFFSET DETAIL



LANE LINE OFFSET DETAIL

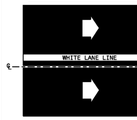


TABLE 1

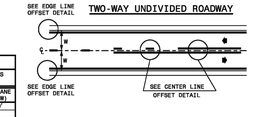
EDGE LINE OFFSETS FOR 2-LANE, 2-WAY ROADWAYS WITH UN-PAVED SHOULDERS

WIDTH (W) OF TRAVEL PAVEMENT	MAX. EDGE LINE OFFSET FROM E.O.T.	MINIMUM LANE WIDTH (W)
16' - 18'	2"	8' - 9'
19'	4"	9'
20'	6"	9.5'
21'	8"	10'
22'	10"	10'
23'	10"	10.5'
24'	1'	11'
26'	2'	11'
28'	2'	12'
30'	3'	12'
32'	4'	12'

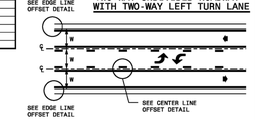
LEGEND

W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

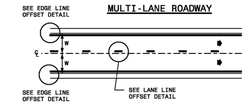
TWO-WAY UNDIVIDED ROADWAY



TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE



MULTI-LANE ROADWAY



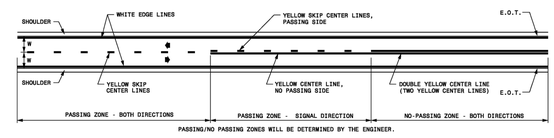
SHEET 2 OF 2 **1205.01**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

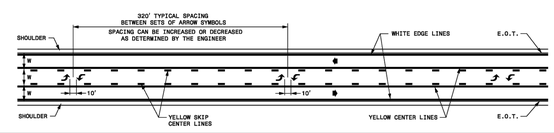
1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** TWO-LANE AND MULTI-LANE ROADWAYS

TWO-LANE, TWO-WAY ROADWAY



TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE



GENERAL NOTES:

1- EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER LOCATIONS.

2- CONTINUE EDGE LINES THROUGH MINOR DRIVEWAYS. DO NOT CONTINUE EDGE LINES AT INTERSECTIONS AND MAJOR DRIVEWAYS, SEE ROADWAY STANDARD DRAWING 1205.05 FOR ADDITIONAL GUIDANCE.

3- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW
PAVEMENT MARKING SYMBOLS

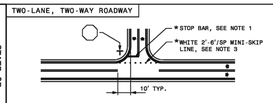
SHEET 1 OF 2 **1205.02**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

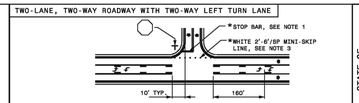
1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** INTERSECTIONS

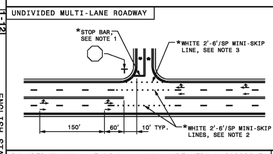
TWO-LANE, TWO-WAY ROADWAY



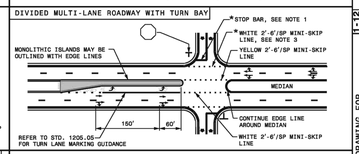
TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE



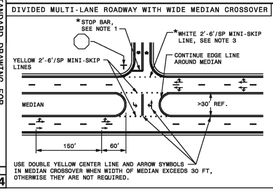
UNDIVIDED MULTI-LANE ROADWAY



DIVIDED MULTI-LANE ROADWAY WITH TURN BAY



DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER



USE DOUBLE YELLOW CENTER LINE AND ARROW SYMBOLS IN MEDIAN CROSSOVER WHEN WIDTH OF MEDIAN EXCEEDS 30 FT, OTHERWISE THEY ARE NOT REQUIRED.

GENERAL NOTES:

1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.

2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.

3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.

4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

STOP SIGN
STATIONARY SIGN
DIRECTION OF TRAFFIC FLOW
PAVEMENT MARKING SYMBOLS
OPTIONAL

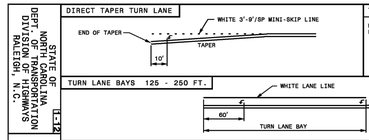
SHEET 2 OF 2 **1205.04**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

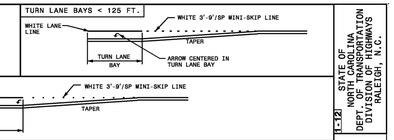
1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** TURN LANES

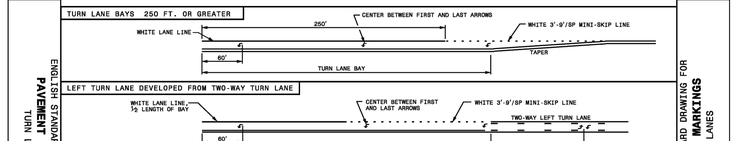
DIRECT TAPER TURN LANE



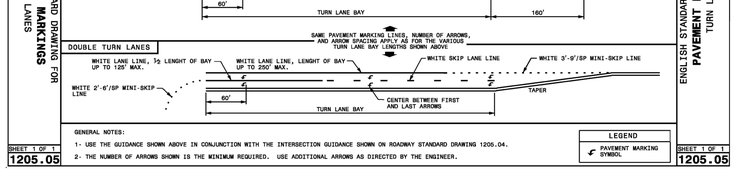
TURN LANE BAYS < 125 FT.



TURN LANE BAYS 125 - 250 FT.



TURN LANE BAYS 250 FT. OR GREATER



LEFT TURN LANE DEVELOPED FROM TWO-WAY TURN LANE

DOUBLE TURN LANES

GENERAL NOTES:

1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

2- THE NUMBER OF ARROWS SHOWN IS THE MINIMUM REQUIRED. USE ADDITIONAL ARROWS AS DIRECTED BY THE ENGINEER.

LEGEND

PAVEMENT MARKING SYMBOL

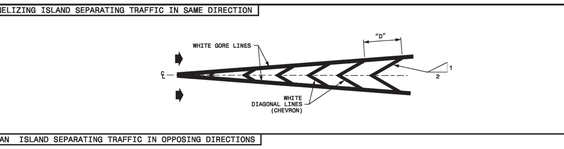
SHEET 1 OF 1 **1205.05**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

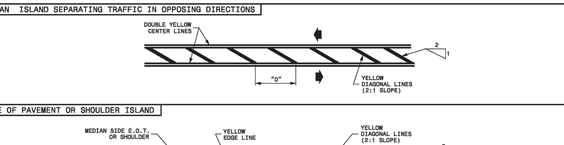
1-12

ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** PAINTED ISLANDS

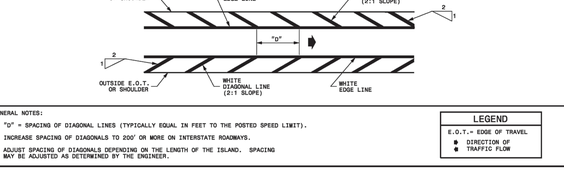
CHANNELIZING ISLAND SEPARATING TRAFFIC IN SAME DIRECTION



MEDIAN ISLAND SEPARATING TRAFFIC IN OPPOSING DIRECTIONS



EDGE OF PAVEMENT OR SHOULDER ISLAND



GENERAL NOTES:

1- "D" = SPACING OF DIAGONAL LINES (TYPICALLY EQUAL IN FEET TO THE POSTED SPEED LIMIT).

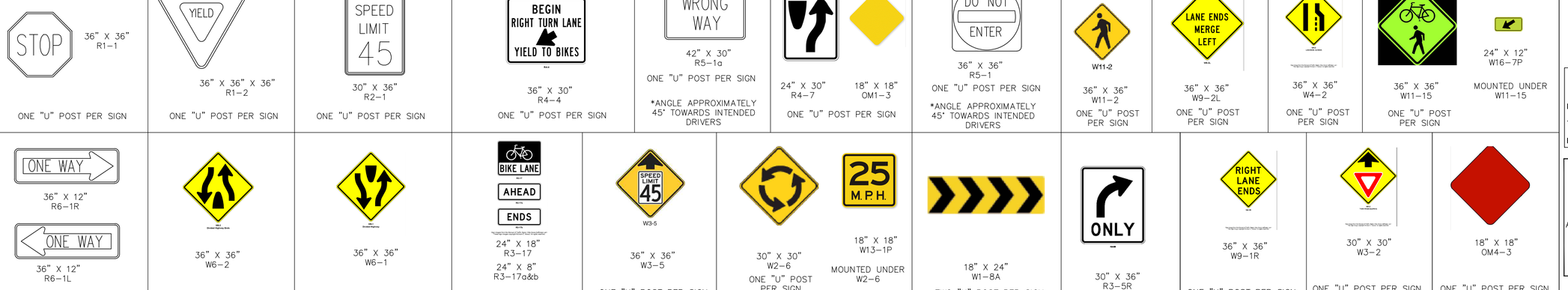
2- INCREASE SPACING OF DIAGONALS TO 200' OR MORE ON INTERSTATE ROADWAYS.

3- ADJUST SPACING OF DIAGONALS DEPENDING ON THE LENGTH OF THE ISLAND. SPACING MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.

LEGEND

E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1 **1205.09**



1 inch

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048 , Fax: (910)251-8282
License: F-1222
www.mckimcreed.com

Newland® COMMUNITIES

NASH — North America Science House, LLC

RIVER ROAD

ROADWAY DETAILS

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE: HORIZONTAL: 1"=40' VERTICAL: N/A

M&C FILE NUMBER: CP-109

DRAWING NUMBER: PM-9

STATUS: FINAL DESIGN ISSUED FOR CONSTRUCTION

REVISION

S:\2735\0007\00-Drawings\CP109-02735\0007.dwg, 11/19/2014 7:03:40 PM, kespinoza,
ANSI full bleed D (22.00 X 34.00 Inches),1:1

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INTSTALLATION SPACING

GENERAL NOTES:

1- MARKERS ARE GENERALLY NOT REQUIRED ALONG EDGE LINES EXCEPT IF DESIGNATED IN THE PLANS OR DIRECTED BY THE ENGINEER. WHEN THEY ARE REQUIRED, SPACE THEM ON 20 FT. CENTERS, AND OFFSET 2 INCHES FROM THE EDGE LINE ON THE TRAFFIC SIDE.

2- PLACE CRYSTAL/RED MARKERS AT INTERSECTIONS AND INTERCHANGES WHERE WRONG-WAY MOVEMENTS ARE POSSIBLE. POSITION THE RED SIDE OF THE MARKER TO FACE "WRONG-WAY" TRAFFIC. WHEN USED, PLACE CRYSTAL/RED MARKERS ALONG THE ENTIRE LENGTH OF THE PROJECT.

3- DO NOT PLACE PAVEMENT MARKERS CLOSER THAN 3 INCHES TO A PAVEMENT CONSTRUCTION JOINT (AS FEASIBLE), EXCEPT WHEN PLACED BETWEEN DOUBLE YELLOW CENTER LINES, AND ALONG YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWAYS WHERE PASSING IS ALLOWED IN BOTH DIRECTIONS.

4- DO NOT PLACE PAVEMENT MARKERS DIRECTLY ON PAVEMENT MARKING LINES.

5- PLACE PAVEMENT MARKERS USED IN CONJUNCTION WITH DOUBLE YELLOW CENTER LINES MID-WAY BETWEEN THE LINES. PROVIDE A GAP BETWEEN THE LINES AND THE MARKER TO REDUCE OVERSPRAYING THE MARKER DURING REPAINTING OPERATIONS.

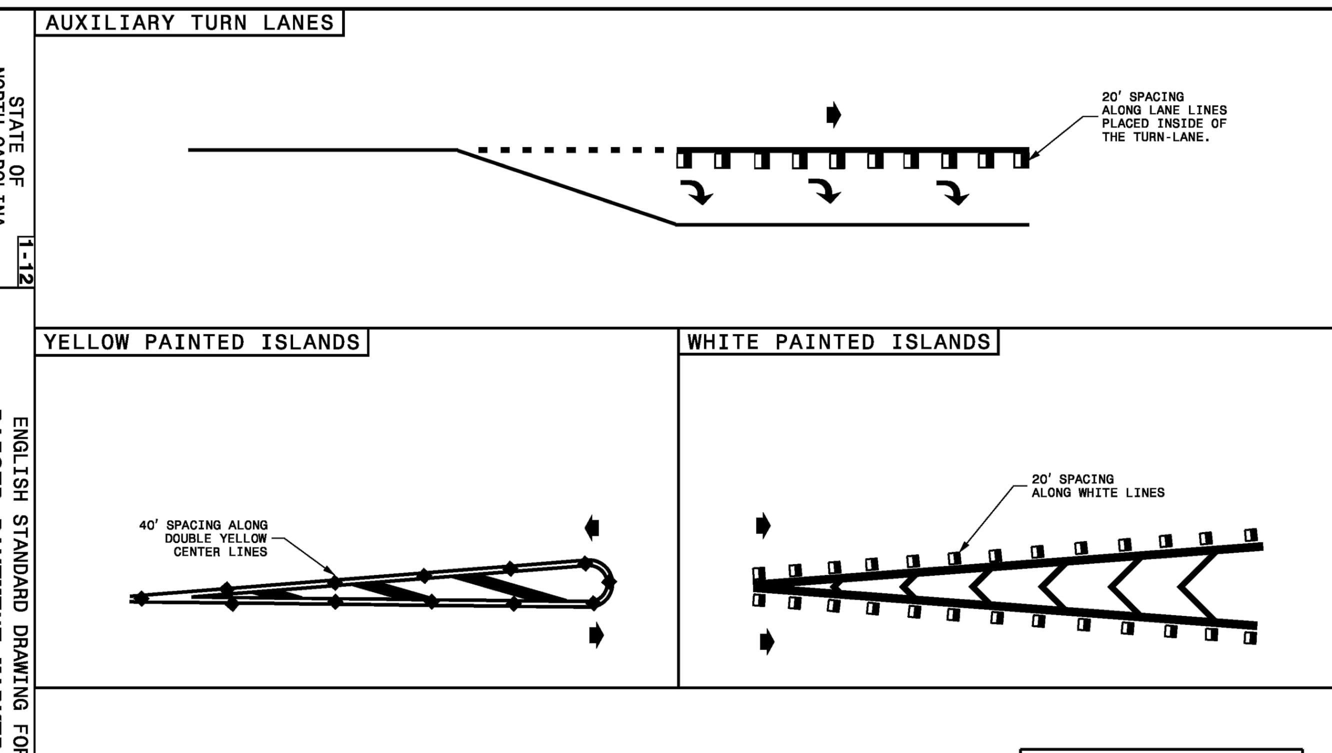
6- MARKERS ARE NOT REQUIRED ALONG MINI-SKIP LINES IN TAPERS.

PAVEMENT MARKER SPACING CHART

TYPE OF PAVEMENT MARKING	TYPICAL SPACING (FT)
SKIP LINES AND CENTER LINES ALONG THRU LANES-	
ALONG TANGENT SECTIONS AND HORIZONTAL CURVES LESS THAN 6°	80
HORIZONTAL CURVES ≥ 6°	40
TURN LANES-	
MINI-SKIP LINES	24
SKIP LINES	40
SOLID LINES	20
CENTER LINES	40
MINI-SKIP LINES AT LANE DROP APPROACHES	24
TWO-WAY RAMP CENTER LINES	40
GORE LINES	20
PAINTED ISLANDS-	
WHITE	20
YELLOW	40
RAISED MEDIAN ISLANDS	40
WRONG WAY RAMP ARROW	5
TAPERS	40
NARROW BRIDGES-	
EDGE LINE	20
CENTER LINE	40
ONE LANE BRIDGES-	
EDGE LINE	20
WORK ZONE APPLICATIONS	
2-LANE, 2-WAY ON-SITE DIVERSION	20 FT. FOR CENTER LINE
ALL OTHER DIVERSIONS	½ NORMAL SPACING

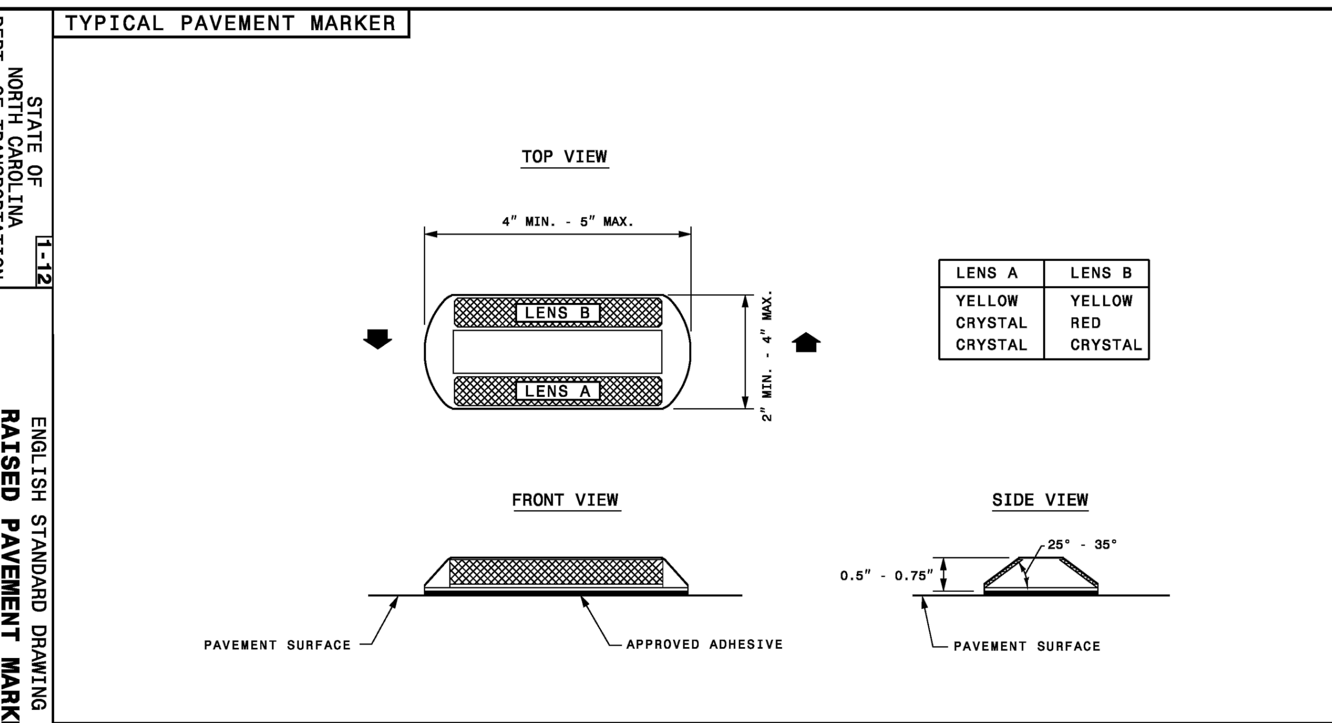
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **RAISED PAVEMENT MARKERS** INSTALLATION SPACING
SHEET 1 OF 3
1250.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **RAISED PAVEMENT MARKERS** INSTALLATION SPACING



SHEET 3 OF 3
1250.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **RAISED PAVEMENT MARKERS** PERMANENT AND TEMPORARY



GENERAL NOTES:

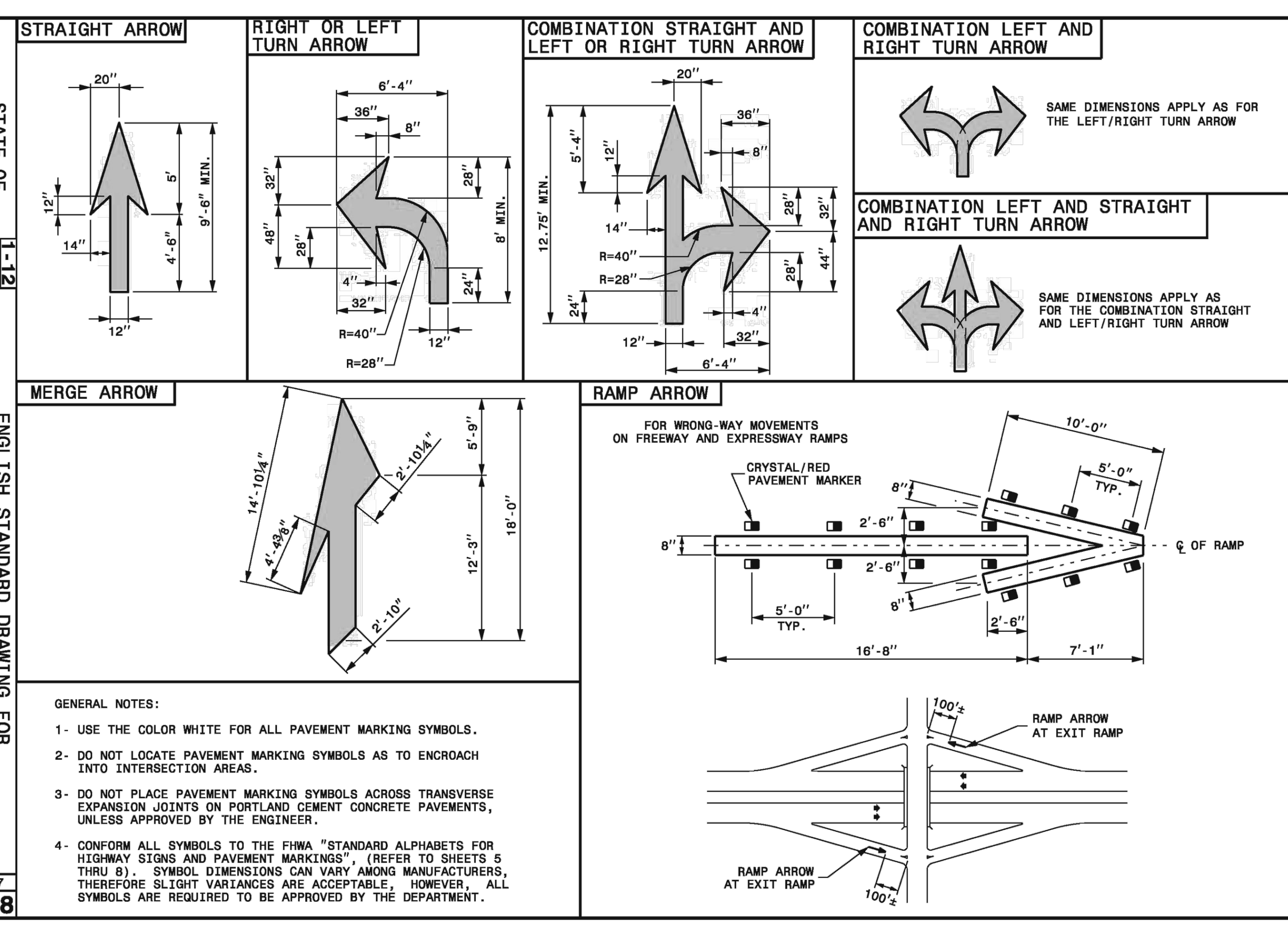
1- USE A MINIMUM OF 2 SQUARE INCHES FOR THE AREA OF EACH REFLECTIVE LENS.

2- FOR A COMPLETE LISTING OF PAVEMENT MARKERS AND ADHESIVES ACCEPTABLE FOR USE IN NORTH CAROLINA CONTACT THE NCDOT SIGNING AND DELINEATION UNIT.

LEGEND
DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1
1251.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** SYMBOLS AND WORD MESSAGES



GENERAL NOTES:

1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.

2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.

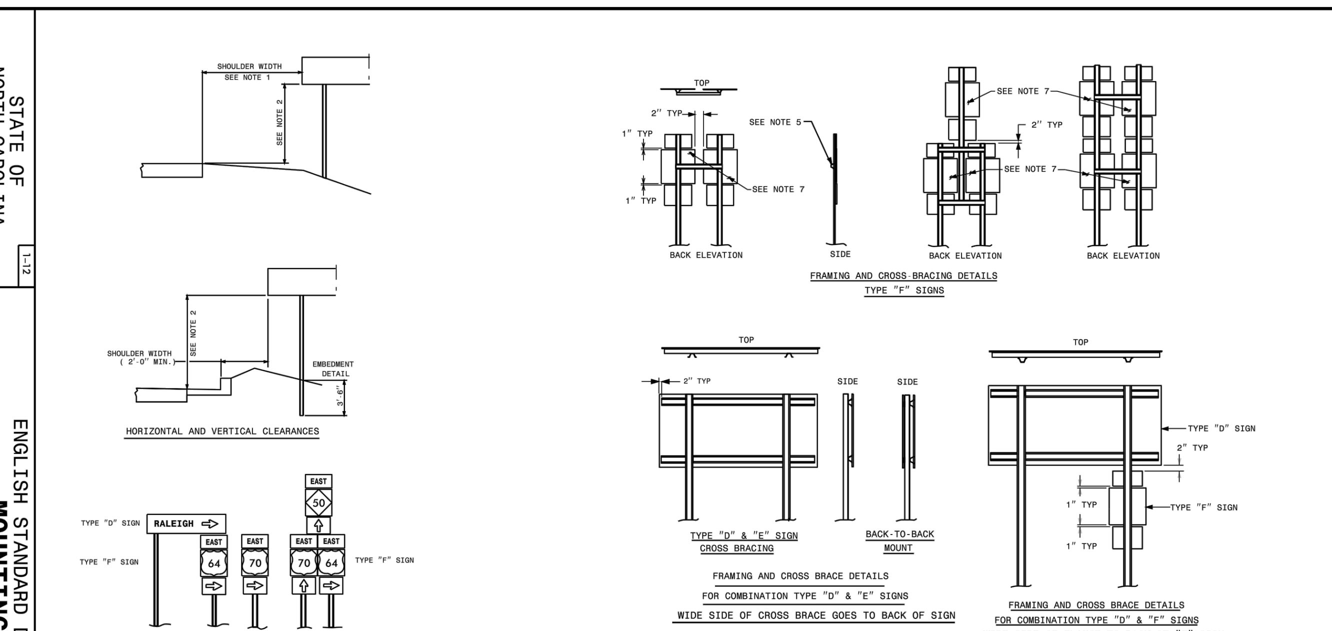
3- DO NOT PLACE PAVEMENT MARKING SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.

4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", (REFER TO SHEETS 5 THRU 8). SYMBOL DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE, HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

SHEET 1 OF 7
1205.08

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **PAVEMENT MARKINGS** SYMBOLS AND WORD MESSAGES
SHEET 1 OF 8
1205.08

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **MOUNTING OF TYPE 'D','E' AND 'F' SIGNS ON 'U' CHANNEL POSTS**



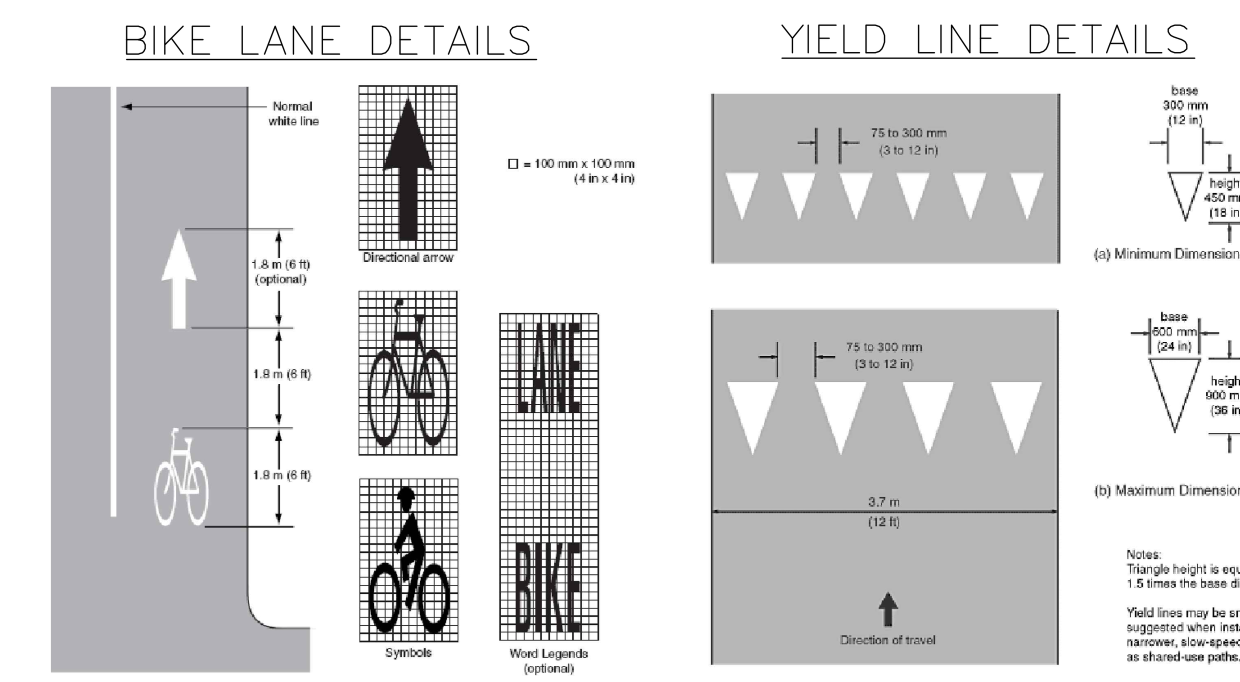
NOTES:

1. ERECT TYPE "D", "E", AND "F" SIGNS ON FREEWAYS WITH THE NEAR EDGE OF THE SIGN 20 FT. FROM THE TRAVEL LANE. ERECT ALL OTHER "D", "E", AND "F" SIGNS WITH THE NEAR EDGE OF THE SIGN AT THE EDGE OF THE SHOULDER BREAK (6 FT. MINIMUM CLEARANCE, 12 FT. DESIRABLE, FROM THE EDGE OF TRAVEL LANE), OR AS DIMENSIONED ON PLAN SHEETS.
2. ERECT TYPE "D", "E", AND "F" SIGNS WITH THE BOTTOM OF SIGN ASSEMBLY AT LEAST 7 FT. ABOVE THE EDGE OF THE TRAVEL LANE ON ROADS WITH 2 OR MORE LANES AND AT LEAST 5 FT. ON OTHER ROUTES. THE VERTICAL CLEARANCE IS 7 FT. WHERE REQUIRED FOR PEDESTRIAN TRAFFIC AND/OR PARKED VEHICLES.
3. THE VERTICAL DIMENSION BETWEEN MOUNTING HOLE CENTERS ON ALL TYPES "D", "E", AND "F" SIGNS IS 30" MAXIMUM. THE VERTICAL AND HORIZONTAL DIMENSIONS BETWEEN MOUNTING HOLES IS TO THE WHOLE INCH. EACH SIGN PANEL HAS A MINIMUM OF 2 BOLTS PER SUPPORT.
4. ATTACH SIGN W/ 5/16" HEX HEAD BOLT, NYLON WASHER, SHIM, FLAT WASHER, LOCK WASHER, HEX NUT NO BUCKLING OF THE SIGN WILL BE PERMITTED. SEE ASSEMBLY DETAIL SHEET# 2 OF 904.50.
5. FURNISH AND INSTALL CROSS-BRACING AS SHOWN IN DETAIL. PAINT ENDS OF CROSS BRACES W/ APPROVED. ZINC PAINT
6. INSTALL POST AND CROSS-BRACING WITH THE WIDE SIDE OF THE FLANGE TOWARD THE BACK OF SIGN(S) FOR COMBINATION TYPE "D" AND "F" SIGNS.
7. THE SHIELD HEIGHTS IN THESE ASSEMBLIES CAN NOT BE LARGER THAN 24".

SHEET 1 OF 2
904.50

BIKE LANE DETAILS

YIELD LINE DETAILS



36" X 24"

ISSUED FOR CONSTRUCTION

Approved Construction Plan	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: ____________ Permit #_______
Signed: ___________________________

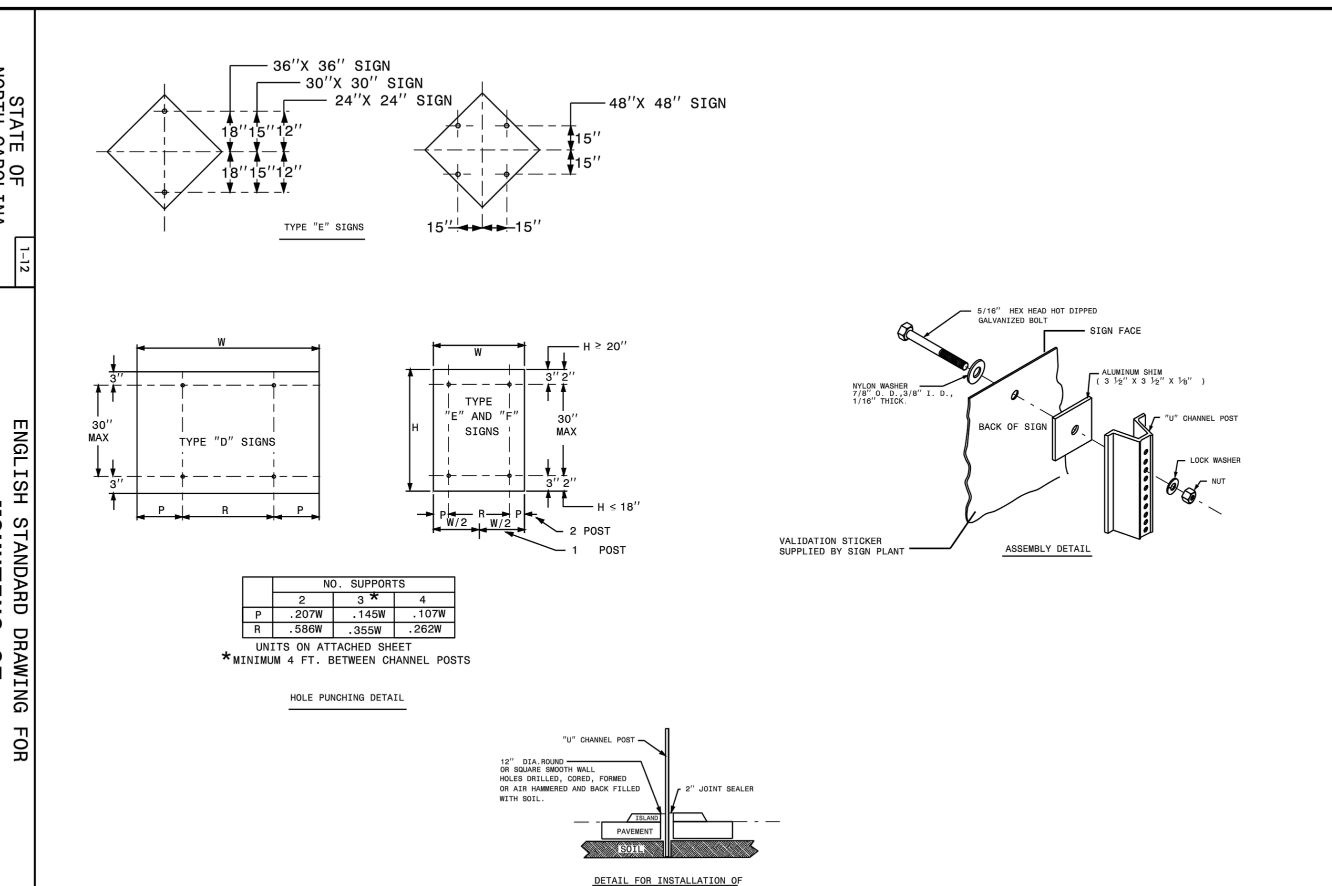
For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

1 inch

PROVIDE 8' SPACING PRIOR TO ARROW

"ONLY" PAVEMENT MARKING
THERMOPLASTIC (90 MILS)

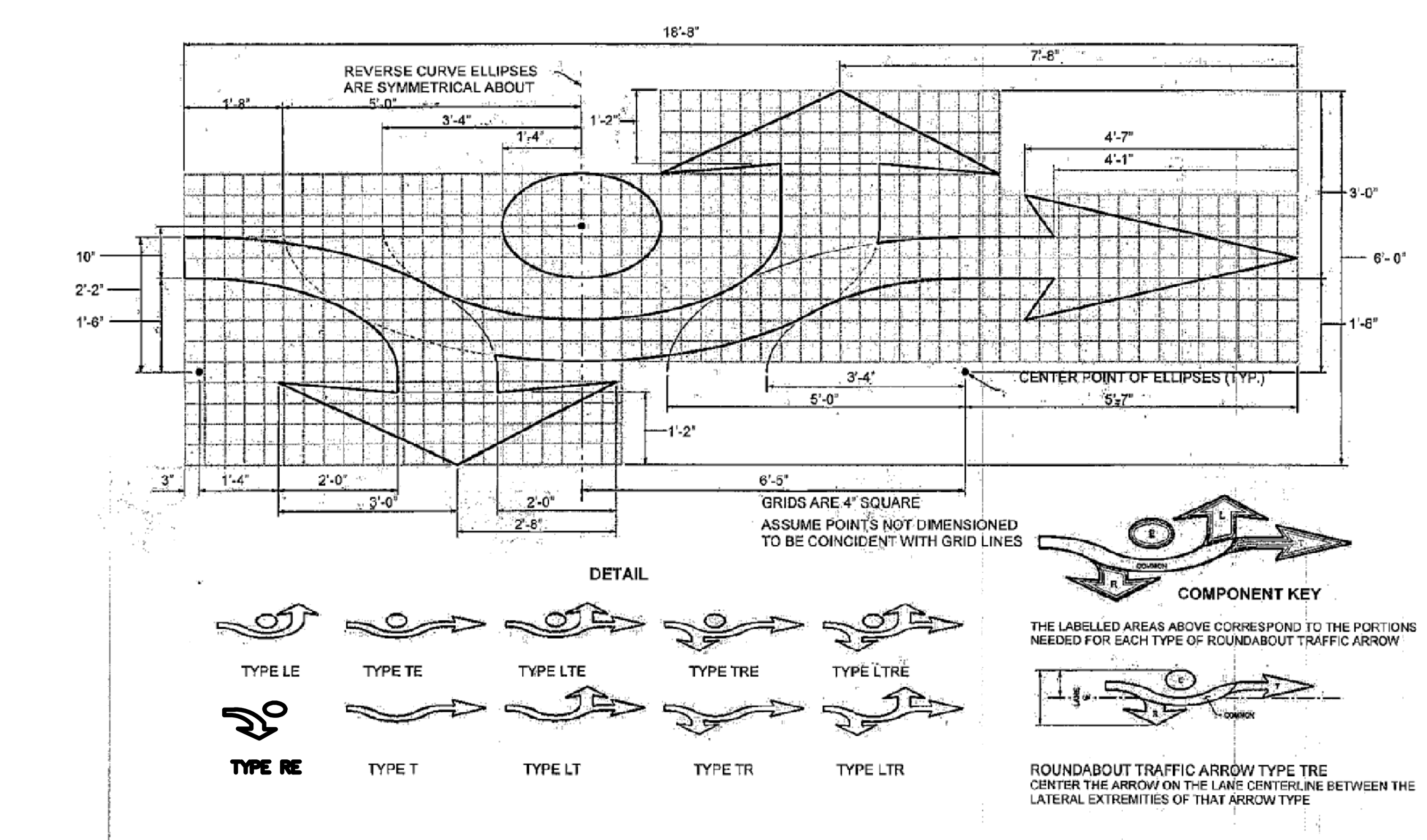
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 1-12
ENGLISH STANDARD DRAWING FOR **MOUNTING OF TYPE 'D','E' AND 'F' SIGNS ON 'U' CHANNEL POSTS**



	NO. SUPPORTS		
	2	3 *	4
P	.207W	.145W	.107W
R	.586W	.355W	.262W

UNITS ON ATTACHED SHEET
*MINIMUM 4 FT. BETWEEN CHANNEL POSTS

SHEET 2 OF 2
904.50



REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048 , Fax: (910)251-8282
License: F-1222
www.mckimcreed.com

Newland® COMMUNITIES
NORTH AMERICA SEKISUI HOUSE, LLC

RIVER ROAD

ROADWAY DETAILS

DATE: SEPTEMBER 2014
MCE PROJ. # 2735-0007
DRAWN
DESIGNED
CHECKED RMC
PROJ. MGR. RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER
CP-110
DRAWING NUMBER
PM-10

STATUS: FINAL DESIGN ISSUED FOR CONSTRUCTION
REVISION

S:\2735\0007\80-Drawings\CP110-027350007.dwg, 11/19/2014 7:07:43 PM, kespinoza,
ANSI full bleed D (22.00 x 34.00 Inches), 1:1

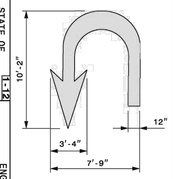
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

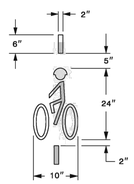
ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 2 OF 8
1205.08

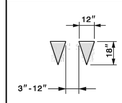
U-TURN ARROW LEFT



BICYCLE DETECTOR SYMBOL

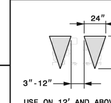


12" YIELD LINE SYMBOL



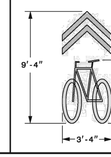
USE ON UNDER 12' LANES

24" YIELD LINE SYMBOL

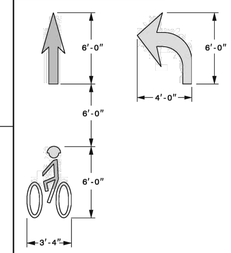


USE ON 12' AND ABOVE LANES

SHARED LANE SYMBOL



BICYCLE LANE SYMBOLS



GENERAL NOTES:

1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.

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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 2 OF 8
1205.08

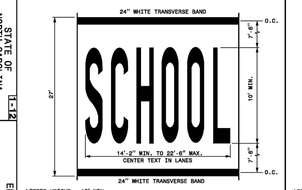
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 3 OF 8
1205.08

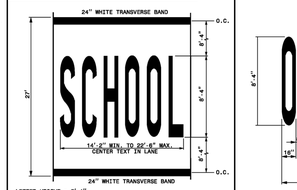
MULTI-LANE WIDTH "SCHOOL"



LETTER HEIGHT = 10' MIN.
LETTER WIDTH = 20'
SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

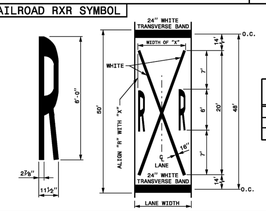
NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

SINGLE LANE WIDTH "SCHOOL"



LETTER HEIGHT = 8'-4"
LETTER WIDTH = 18"
SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

RAILROAD RXR SYMBOL



LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
6'≤W≤9'	7'
9'<W≤12'	8'
W>12'	10'

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 3 OF 8
1205.08

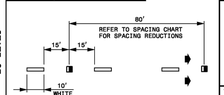
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

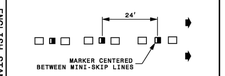
ENGLISH STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 2 OF 3
1250.01

10'-30'/SP SKIP LINE

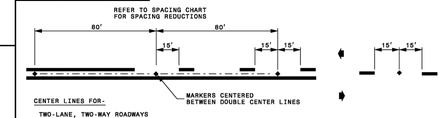


3'-9'/SP MINI-SKIP LINE

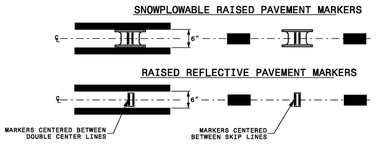


GORE LINES

YELLOW CENTER LINES



DETAIL OF PAVEMENT MARKER PLACEMENT



LEGEND

- CRYSTAL/RED PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 3 OF 3
1250.01

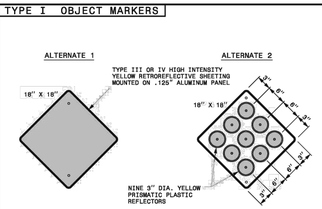
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

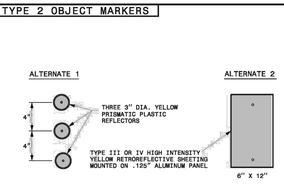
ENGLISH STANDARD DRAWING FOR
OBJECT MARKERS
TYPES

SHEET 1 OF 1
1264.01

TYPE I OBJECT MARKERS

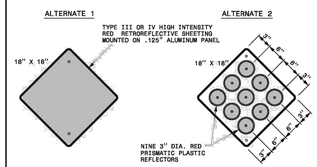


TYPE 2 OBJECT MARKERS



TYPE 3 OBJECT MARKERS

TYPE 4 OBJECT MARKERS



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
OBJECT MARKERS
TYPES

SHEET 1 OF 1
1264.01

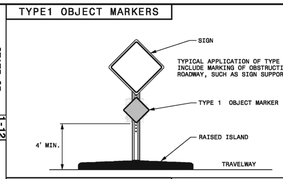
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

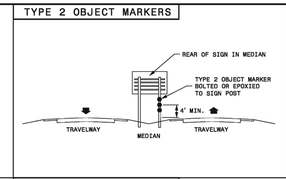
ENGLISH STANDARD DRAWING FOR
OBJECT MARKERS
INSTALLATION

SHEET 1 OF 1
1264.02

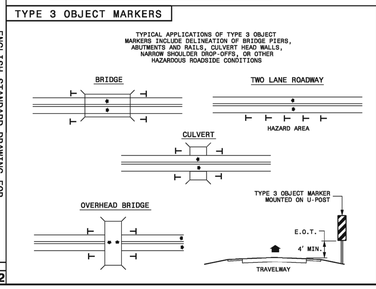
TYPE1 OBJECT MARKERS



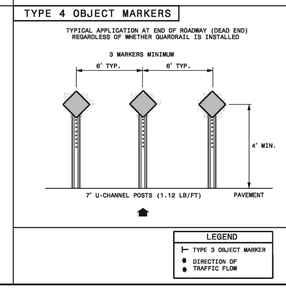
TYPE 2 OBJECT MARKERS



TYPE 3 OBJECT MARKERS



TYPE 4 OBJECT MARKERS



LEGEND

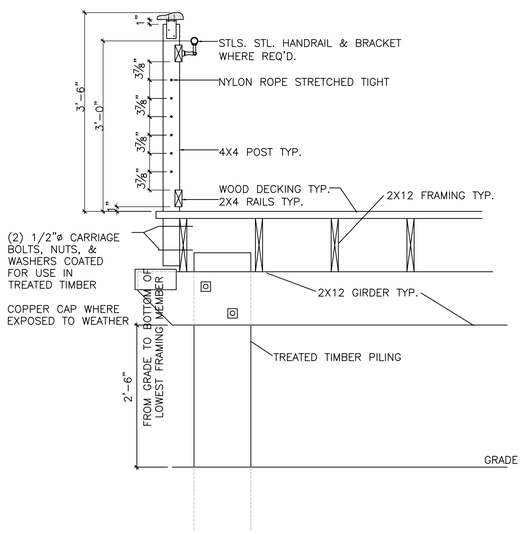
- TYPE 3 OBJECT MARKER
- DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
OBJECT MARKERS
INSTALLATION

SHEET 1 OF 1
1264.02



WOODEN WALKWAY DETAIL
Not To Scale

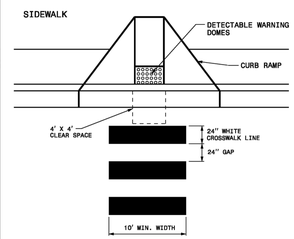
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

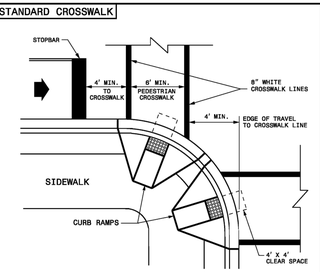
ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
PEDESTRIAN CROSSWALKS

SHEET 1 OF 1
1205.07

HI-VISIBILITY CROSSWALK



STANDARD CROSSWALK



1- THE MINIMUM WIDTH OF STANDARD CROSSWALKS IS 6 FEET. THE MINIMUM WIDTH OF HI-VISIBILITY CROSSWALKS IS 10 FEET.

2- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.

3- BEYOND THE CURB FACE, A CLEAR SPACE OF 4' X 4' FEET MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE CROSSWALK.

4- PLACE STOP BARS A MINIMUM OF 4 FEET FROM NEAREST CROSSWALK LINE. STOP BARS AT SIGNALIZED INTERSECTIONS SHOULD BE COORDINATED WITH THE SIGNAL DESIGN SECTION OR AS DIRECTED BY THE ENGINEER.

5- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.

LEGEND

- DIRECTION OF TRAFFIC FLOW
- CURB RAMP WITH DETECTABLE WARNING DOMES

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
PEDESTRIAN CROSSWALKS

SHEET 1 OF 1
1205.07

Approved Construction Plan

	Name	Date
Planning		
Traffic		
Fire		

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit #_____
Signed: _____

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance.

1 inch

ISSUED FOR CONSTRUCTION

REV.NO.	DESCRIPTIONS	DATE
0	ISSUED FOR CONSTRUCTION	10/29/14

REVISIONS

SEAL

SEAL

McKIM&CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048 , Fax: (910)251-8282
License: F-1222
www.mckimcreed.com

Newland COMMUNITIES

NASH North America Sixteen House, LLC

RIVER ROAD

ROADWAY DETAILS

DATE:	SEPTEMBER 2014
MCE PROJ. #	2735-0007
DRAWN	
DESIGNED	
CHECKED	RMC
PROJ. MGR.	RMC

SCALE
HORIZONTAL: 1"=40'
VERTICAL: N/A

M&C FILE NUMBER CP-111
DRAWING NUMBER PM-11

STATUS: FINAL DESIGN
ISSUED FOR CONSTRUCTION
REVISION

S:\2735\0007\00-Drawings\CP111-02735D007.dwg, 11/19/2014 7:08:45 PM, kespinoza,
ANSI full bleed D (22.00 x 34.00 inches), 1:1