This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

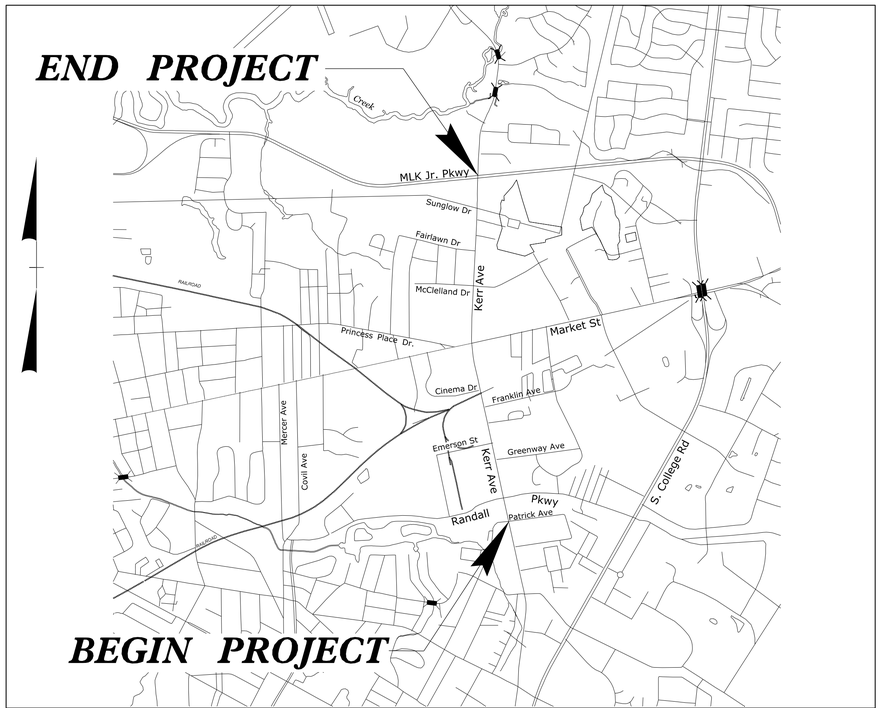
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.
This file or an individual page shall not be considered a certified document.

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

NEW HANOVER COUNTY



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2 - TMP-2B	TRANSPORTATION OPERATIONS PLAN
TMP-3 - TMP-3D	PHASING
TMP-4 - TMP-17	PHASE I DETAILS
TMP-18 - TMP-28	PHASE II DETAILS
TMP-29 - TMP-38	PHASE III DETAILS
TMP-39 - TMP-49	PHASE IV DETAILS
TMP-50 - TMP-51	OFFSITE DETOUR ROUTES
TMP-52	TEMPORARY RAMP DETAIL

SHEET NO.
TMP-01

TIP PROJECT: U-3338B

PLAN PREPARED FOR N.C.D.O.T. BY:
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. — STATE TRAFFIC MANAGEMENT ENGINEER
STEVE KITE, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
DAVID BISSETTE, P.E. — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
LORI DONALDSON, P.E. — TRAFFIC CONTROL DESIGN ENGINEER

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

J. TODD BROOKS, P.E.
TRAFFIC CONTROL
PROJECT ENGINEER

LISA M. MOON, P.E.
TRAFFIC CONTROL
PROJECT DESIGN ENGINEER

J. ABRAHAM WILES
TRAFFIC CONTROL
DESIGN ENGINEER

APPROVED: DocuSigned by: 8E5B7B60A2A2466...
DATE: 7/9/2015

SEAL

09-JUL-2015 16:13
O:\Transportation\Traffic\Curr\U0036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_01- 01A.dgn
WILE2634 AT DUS2901AD

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-01A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANAUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- PEDESTRIAN ON SIDEWALK/TRAIL
- PEDESTRIAN ON DIRT/GRAVEL PATH
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL
- BUS STOP

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- WATER FILLED BARRIER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMP TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

TEMPORARY PAVEMENT MARKING

		PAINT
PA	WHITE EDGE LINE	(4")
PB	YELLOW EDGE LINE	(4")
PC	10 FT. WHITE SKIP	(4")
PD	3 FT. - 9 FT. WHITE MINISKIP	(4")
PE	WHITE LANE LINE	(4")
PF	10 FT. YELLOW SKIP	(4")
PH	YELLOW CENTER LINE	(4")
PI	YELLOW DOUBLE CENTER LINE	(4")
PN	WHITE GORELINE	(8")
PO	WHITE DIAGONAL	(8")
PP	YELLOW DIAGONAL	(8")
PQ	WHITE CROSSWALK LINE	(8")
P2	WHITE STOP BAR	(24")
P8	2 FT. - 6 FT. WHITE MINISKIP	(4")
P9	2 FT. - 6 FT. YELLOW MINISKIP	(4")
QA	LEFT TURN ARROW MARKING SYMBOLS	
QB	RIGHT TURN ARROW MARKING SYMBOLS	
QC	STRAIGHT ARROW MARKING SYMBOLS	
QD	COMBO. STRT / LT ARROW MARKING SYMBOLS	
QE	COMBO. STRT / RT ARROW MARKING SYMBOLS	
QF	COMBO. LT / RT ARROW MARKING SYMBOLS	
QG	LEFT/RIGHT/STRAIGHT/ MARKING SYMBOLS	
QI	ALPHANUMERIC CHARACTERS	CHARACTER
QP	MERGE ARROW	
MH	YELLOW & YELLOW, TEMPORARY RAISED PAVEMENT MARKER	
MI	CRYSTAL & RED, TEMPORARY RAISED PAVEMENT MARKER	

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

EXISTING PAVEMENT MARKING SYMBOLS

EXISTING PAVEMENT MARKING SYMBOLS

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: J. Todd Brooks RE5B7B80A2A246... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

ROADWAY STANDARD DRAWINGS & LEGEND

09-JUL-2015 15:52
g:\traffic\curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_01- 01A.dgn
WILE2051 AT DUS290L40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-02

MANAGEMENT STRATEGIES

PROJECT HAS BEEN PHASED TO CONSTRUCT THE QUADRANT LEFT ROADWAYS AT THE BEGINNING OF THE PROJECT TO ALLOW MORE ROOM FOR CONSTRUCTION AT THE INTERSECTION OF KERR AVENUE AND MARKET STREET. THIS CONFIGURATION ALSO ALLOWS THE CONTRACTOR FLEXIBILITY FOR DETOUR ROUTES AROUND THE MAJOR INTERSECTION IF NECESSARY DURING CONSTRUCTION. TEMPORARY SIGNALS ARE INSTALLED AT EACH END OF THE QUADRANT LEFT ROADWAYS AT THE END OF PHASE I, WHICH ALLOWS FOR IMPROVED PEDESTRIAN DETOUR ROUTES IN THIS URBAN AREA.

KERR AVENUE WILL BE CONSTRUCTED AWAY FROM TRAFFIC AS MUCH AS POSSIBLE, BUT EMPLOYS A LARGE AMOUNT OF WEDGING UNDER TRAFFIC. OTHER TRAFFIC CONTROL STRATEGIES INCLUDED IN THIS PROJECT INCLUDE TEMPORARY PAVEMENT, LANE CLOSURES, TEMPORARY TRAFFIC SIGNALS, OFF-SITE DETOURS FOR DRAINAGE CONSTRUCTION, PEDESTRIAN DETOURS, SAFETY FENCING, AND MULTIPLE TRAFFIC SHIFTS.

CONSTRUCTION OF KERR AVENUE WILL BE STAGED TO COMPLETE THE QUADRANT LEFT ROADWAYS IN THE FIRST PHASE. TRAFFIC IS THEN SHIFTED ON KERR TO MAXIMIZE CONSTRUCTION AREA NEAR THE CONGESTED INTERSECTION OF KERR AVENUE AT MARKET STREET. CONSTRUCTION PROCEEDS WITH THE LEFT SIDE WIDENING, AS MUCH AS POSSIBLE, THEN TRAFFIC IS SHIFTED TO LEFT SIDE ON A COMBINATION OF EXISTING AND PROPOSED PAVEMENT TO CONSTRUCT RIGHT SIDE. ONCE RIGHT SIDE WIDENING IS COMPLETED, TRAFFIC IS THEN SHIFTED TO THE OUTSIDE LANES SO THE MEDIAN ISLANDS CAN BE CONSTRUCTED.

CONSTRUCTION OF MARKET STREET WILL BE STAGED IN A SIMILAR MANNER WITH LEFT SIDE CONSTRUCTION, THEN RIGHT SIDE CONSTRUCTION, FOLLOWED BY MEDIAN WORK TO FINALIZE CONSTRUCTION.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y6- MARKET STREET	MONDAY THROUGH FRIDAY FROM 6:00 A.M. TO 7:00 P.M.
-L- KERR AVENUE (SOUTH OF MARKET STREET)	MONDAY THROUGH FRIDAY FROM 7:00 A.M.TO 8:30 A.M. FROM 4:30 P.M. TO 7:00 P.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

-L- KERR AVENUE
-Y1- RANDALL PARKWAY
-Y7A-
-Y6- MARKET STREET
-Y5- CINEMA DRIVE

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IN ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

9. FOR THE WEEKEND OF THE ANNUAL WILMINGTON RIVERFEST IN OCTOBER, DO NOT PERFORM ANY WORK BETWEEN THE HOURS OF 6:00 AM FRIDAY THROUGH 7:00 PM MONDAY AFTER THE RIVERFEST EVENT WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND THE CITY OF WILMINGTON TRAFFIC ENGINEER. CALL (910) 452-6862 OR VISIT THE FESTIVAL'S WEBSITE AT WWW.WILMINGTONRIVERFEST.COM TO CONFIRM THE DATES OF THE FESTIVAL.

10. FOR THE WEEK OF THE ANNUAL NORTH CAROLINA AZALEA FESTIVAL IN APRIL, DO NOT PERFORM ANY WORK BETWEEN THE HOURS OF 6:00 AM THURSDAY THROUGH 7:00 PM MONDAY AFTER THE FESTIVAL WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND THE CITY OF WILMINGTON TRAFFIC ENGINEER. CALL (910) 794-4650 OR VISIT THE FESTIVAL'S WEBSITE AT WWW.NCAZALEAFESTIVAL.ORG TO CONFIRM THE DATES OF THE FESTIVAL.

LANE AND SHOULDER CLOSURE REQUIREMENTS

C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

   WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

H) DO NOT INSTALL MORE THAN 1/2 MILE OF LANE CLOSURE ON KERR AVE MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON KERR AVENUE OR MARKET STREET.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B80A2A268... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

09-JUL-2015 15:52
O:\Transportation\Traffic\Curr\U0036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_02 - 02B.dgn
WILE2034 AT DUS290\40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-02A

GENERAL NOTES CONTINUED

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 1,000 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER TWENTY-ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.

O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

R) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

S) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO RSD 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

T) WHEN LANE CLOSURES ARE NOT IN EFFECT, SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

U) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
-L- KERR AVENUE	PAINT	TEMPORARY RAISED
-Y6- MARKET STREET	PAINT	TEMPORARY RAISED
ALL OTHER -Y-LINES	PAINT	NONE

X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

AA) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS/SKINNY DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION

MISCELLANEOUS

BB) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

PEDESTRIANS

CC) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

DD) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.)

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: J. Todd Brooks BE5B7B60A2A2466... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

09-JUL-2015 15:52
Q:\Transportation\Traffic\Curr\N00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_02 - 02B.dgn
WILE2054 AT DUS2904D

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-02B

LOCAL NOTES

LN-1 PARTIALLY CONSTRUCT DRAINAGE BOX FOR PROPOSED D.I. OR C.B. TO AN INTERIM ELEVATION BELOW GRADE, COVER WITH TEMPORARY TRAFFIC BEARING COVER, BACKFILL AND PATCH PAVEMENT.

LN-2 MAINTAIN PEDESTRIAN ACCESS THROUGH WORK AREA BY BUILDING PROPOSED CURB & GUTTER, SIDEWALK AND A PORTION OF THE PROPOSED PAVEMENT WHILE MAINTAINING ACCESS ON EXISTING SIDEWALK OR EXISTING UNPAVED PATH. AFTER COMPLETION OF PROPOSED CURB & GUTTER AND SIDEWALK SHIFT PEDESTRIAN TRAFFIC TO COMPLETED SIDEWALK AND COMPLETE CONSTRUCTION OF WIDENING AND NECESSARY WEDGING. INSTALL SIDEWALK CLOSED (R9-9) SIGNS AS APPROPRIATE DURING CONSTRUCTION.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: J. Todd Brooks BE587B90A2A266... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

09-JUL-2015 15:52
O:\Transportation\Traffic\Curr\100036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_02 - 02B.dgn
WILE2054 AT DUS290/40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-3

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR TO COORDINATE WITH ENGINEER AND WAVE TRANSIT FOR BUS STOP LOCATIONS WITHIN PROJECT LIMITS.

CONSTRUCTION SHALL INCLUDE TEMPORARY AND PERMANENT WEDGING BETWEEN EXISTING, TEMPORARY AND PROPOSED PAVEMENT TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE SMOOTH TRANSITIONS TO EXISTING LANES.

PHASE I

PHASE I MAINTAINS TRAFFIC IN EXISTING PATTERNS WHILE CONSTRUCTING THE NEW QUADRANT LEFT ROADWAY (-Y7A-), CONSTRUCTING ENOUGH OF THE MAIN STREET AS WELL AS APPROPRIATE SIDE STREETS TO INSTALL 4 NEW SIGNALS FOR THE TWO NEW QUADRANT LEFT MOVEMENTS, AND THE BEGINNING OF CONSTRUCTION ON THE LEFT SIDE OF -L-.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE I STEP 1 WITHIN 180 CONSECUTIVE CALENDER DAYS FROM THE DATE OF AVAILABILTTY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 1 MAY BE PERFORMED CONCURRENTLY WITH STEPS 2 THROUGH 8.

STEP 1: REVISE PAVEMENT MARKINGS ON -L- FROM STA 91+81+/- TO STA 97+39+/- AS SHOWN ON TMP-23 AND SHIFT TRAFFIC TO NEW PATTERN. COMPLETE SIGNAL REVISIONS AND ACTIVATE FINAL SIGNAL 03-0786.

STEP 2: INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01.

STEP 3: WHILE MAINTAINING TRAFFIC IN EXISTING TRAFFIC PATTERN, USING RSD 1101.02, SHEETS 1, 2, 3, AND 7 OF 15, AS NECESSARY, BEGIN CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE FOLLOWING:

- LEFT SIDE OF -L- FROM -L- STA 11+00+/- TO STA 45+57+/- AS SHOWN ON TMP-04 THROUGH TMP-07.
- LEFT SIDE OF -L- FROM -L- STA 66+11+/- TO STA 96+71+/- AS SHOWN ON TMP-09, TMP-11, AND TMP-12.
- -Y- FROM STA 11+00+/- TO TIE-IN OF -L- AS SHOWN ON TMP-04.
- RIGHT SIDE OF -Y1- FROM STA 11+27+/- TO TIE-IN OF -L-, INCLUDING TEMPORARY PAVEMENT FROM STA 12+81 +/- TO STA 14+25+/- AS SHOWN ON TMP-04 AND TMP-13.
- -Y3- FROM STA 14+85+/- TO TIE-IN OF -L- AS SHOWN ON TMP-05.
- RIGHT SIDE OF -Y5- FROM STA 8+85+/- TO TIE-IN OF -L- AS SHOWN ON TMP-06.
- RIGHT SIDE OF -Y5B- FROM STA 10+50+/- TO STA 14+58+/- AND TIE-IN OF -Y6- AS SHOWN ON TMP-14.
- LEFT SIDE OF -Y6- FROM STA 30+00+/- TO STA 34+70+/-. INSTALL CURB, GUTTER AND SIDEWALK FROM STA 29+34+/- TO STA 30+00+/- AND WEDGE FROM PROPOSED ELEVATION TO EXISTING ELEVATION AS SHOWN ON TMP-16.
- RIGHT SIDE OF -Y7- FROM STA 10+00+/- TO TIE-IN OF -L- AS SHOWN ON TMP-09.
- -Y7A- FROM TIE-IN AT -L- TO TIE-IN AT -Y6-, INCLUDING WEDGING ON -L- BETWEEN STA 66+11+/- AND STA 67+88+/-. USE TYPE III BARRICADES ON -Y7A- AS SHOWN TO KEEP -Y7A- CLOSED TO TRAFFIC AS SHOWN ON TMP-09, TMP-16 AND TMP-17.
- -Y8- FROM STA 12+00+/- TO TIE-IN OF -L- AS SHOWN ON TMP-09.
- -Y10- FROM STA 11+49+/- TO TIE-IN OF -L- AS SHOWN ON TMP-11.
- -Y11- FROM STA 12+61+/- TO TIE-IN OF -L- AS SHOWN ON TMP-11.
- -Y16- FROM STA 14+72+/- TO STA 17+00+/- AS SHOWN ON TMP-16.

STEP 3: CONTINUED

- -Y17- FROM TIE-IN OF -Y7A- TO STA 13+44+/-, USING TYPE III BARRICADES TO KEEP -Y17- CLOSED TO TRAFFIC AS SHOWN ON TMP-17.
- -SR1- AS SHOWN ON TMP-11 AND TMP-12 USING TYPE III BARRICADES TO KEEP -SR1- CLOSED TO TRAFFIC AS SHOWN ON TMP-11 AND TMP-12.
- PAVEMENT REPAIR OF ALL AREAS ALONG EXISTING ROADWAYS AS APPROVED BY THE ENGINEER.
- TRAFFIC SIGNAL SYSTEM WORK. SEE SIGNAL COMMUNICATIONS PLANS.
- TEMPORARY SIGNALS AT THE FOLLOWING LOCATIONS. COVER SIGNAL HEADS OF TEMPORARY INSTALLATIONS UNTIL TEMPORARY SIGNALS ARE PUT IN FLASH MODE AT NEW LOCATIONS OR UNTIL SIGNAL CONTROL IS TRANSFERRED TO TEMPORARY INSTALLATION AT EXISTING SIGNAL LOCATIONS. NEW SIGNAL LOCATIONS SHALL BE PUT IN FLASH MODE A MINIMUM OF TWO WEEKS PRIOR TO ACTIVATION DURING TRAFFIC SHIFT AT THE BEGINNING OF PHASE II:
  - 03-0605T1 -L- AT -Y1, EXISTING
  - 03-0049T1 -Y6- AT -L-, EXISTING
  - 03-1080T1 -Y6- AT -Y5B-, NEW
  - 03-1081T1 -Y6- AT -Y7A-/-Y16-, NEW
  - 03-1082T1 -L- AT -Y5-, NEW
  - 03-1083T1 -L- AT -Y7-/-Y7A-, NEW

STEPS 4 THRU 8 MAY BE PREFORMED CONCURRENTLY

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE I STEP 4 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 4: USING RSD 1101.03, SHEETS 1 AND 2 OF 9, CLOSE -L- BETWEEN -Y2- AND -Y3- [SEE INSET ON TMP-05]. DETOUR TRAFFIC ALONG ROUTES AS SHOWN ON TMP-51. CONSTRUCT ARCH PIPE ACROSS -L- AT STA 30+53+/- AS SHOWN ON TMP-05. REPAIR PAVEMENT AND ANY DAMAGED PAVEMENT MARKINGS. REOPEN -L- TO EXISTING TRAFFIC PATTERN.

STEP 5: USING RSD 1101.02, SHEETS 1, 2, AND 7 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION, USING APPROPRIATE PEDESTRIAN MEASURES, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE FOLLOWING:

A. RIGHT SIDE OF -Y5- FROM -Y5- STA 8+85+/- TO TIE-IN OF -L- INCLUDING -L- FROM STA 44+14+/- AS SHOWN ON TMP-06.

B. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-07 AND PLACE TRAFFIC TO NEW TEMPORARY TRAFFIC PATTERN.

C. LEFT SIDE OF -Y5- FROM STA 8+85+/- TO TIE-IN OF -L- INCLUDING -L- UP TO STA 45+57+/- AS SHOWN ON TMP-07.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 7/9/2015 DATE:
BE5B7B60A2A2466...

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASING

09-JUL-2015 15:52
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_03 - 03D.dgn
WILE2054 AT DUS290940

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-3A

PHASE I - CONTINUED

STEP 6: USING RSD 1101.02, SHEETS 1, AND 2 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION, USING APPROPRIATE PEDESTRIAN MEASURES, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE FOLLOWING:

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE I STEP 6A BELOW WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

A. ALTERNATELY CLOSE APPROACH LANES ON -Y7-, RIGHT SIDE, FROM STA 12+00+/- TO STA 13+00+/- TO MILL/UNDERCUT AND SMOOTH SURFACE.

B. COMPLETE RIGHT SIDE OF -Y7- FROM STA 10+11+/- TO TIE-IN AT -L-, INCLUDING -L- FROM STA 66+11+/- AS SHOWN ON TMP-09.

C. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-10 AND PLACE TRAFFIC INTO NEW TEMPORARY PATTERN.

D. LEFT SIDE OF -Y7- FROM STA 10+11+/- TO TIE-IN AT -L- INCLUDING -L- TO STA 67+88+/- AS SHOWN ON TMP-10.

STEP 7: USING RSD 1101.02, SHEETS 1, 2, AND 7 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION, USING APPROPRIATE PEDESTRIAN MEASURES, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE FOLLOWING:

A. RIGHT SIDE OF -Y5B- FROM -Y5B- STA 10+50+/- TO STA 14+58+/- AS SHOWN ON TMP-14.

B. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-15 AND PLACE TRAFFIC INTO NEW TEMPORARY TRAFFIC PATTERN.

C. LEFT SIDE OF -Y5B- FROM -Y5B- STA 10+50+/- TO STA 14+58+/- AS SHOWN ON TMP-15, INSET 1.

D. PLACE TRAFFIC CONTROL DEVICES FOR PEDESTRIAN TRAFFIC AS SHOWN ON TMP-15 AND PLACE PEDESTRIAN TRAFFIC INTO NEW TEMPORARY TRAFFIC PATTERN.

E. CONSTRUCT TIE-IN OF -Y5B- AT -Y6- AS SHOWN ON TMP-15, INSET 2.

STEP 8: USING RSD 1101.02, SHEETS 1, 2, 3, AND 7 OF 15 AS NECESSARY, COMPLETE CONSTRUCTION, OF THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

- INSTALLATION OF TEMPORARY SIGNAL 1 FOR -L- AT -Y1- (03-0605T1). COORDINATE WITH -Y1- CONSTRUCTION.

- LEFT SIDE OF -L- FROM STA 39+40+/- TO STA 44+14+/- AS SHOWN ON TMP-06.

- RIGHT SIDE OF -Y1- FROM STA 11+27+/- TO TIE-IN AT -L- AS SHOWN ON TMP-04 AND TMP-13, INCLUDING TEMPORARY PAVEMENT FROM STA 12+81 +/- TO STA 14+25+/-. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-19 AND PLACE TRAFFIC INTO TEMPORARY TRAFFIC PATTERN.

- LEFT SIDE OF -Y6- FROM STA 30+00+/- TO STA 34+70+/- AS SHOWN ON TMP-16. INSTALL CURB, GUTTER AND SIDEWALK FROM STA 29+34+/- TO STA 30+00+/- AND WEDGE FROM PROPOSED ELEVATION TO EXISTING ELEVATION.

- -Y7A- FROM TIE-IN AT -L- TO TIE-IN AT -Y6-, INCLUDING WEDGING ON -L- BETWEEN STA 66+11+/- TO STA 67+88+/-, AS SHOWN ON TMP-09, TMP-16 AND TMP-17. USE TYPE III BARRICADES TO KEEP -Y7A- CLOSED TO TRAFFIC SHIFT.

- -Y16- FROM STA 14+72+/- TO STA 17+00+/- AS SHOWN ON TMP-16.

- -Y17- FROM TIE-IN AT -Y7A- TO -Y17- STA 13+44+/- AS SHOWN ON TMP-17. USE TYPE III BARRICADES ON -Y17- AS SHOWN TO KEEP -Y17- CLOSED TO TRAFFIC.

- ALL TEMPORARY AND FINAL SIGNAL CONSTRUCTION THAT CAN BE COMPLETED PRIOR TO THE TRAFFIC SHIFT.

STEP 8: CONTINUED

AWAY FROM TRAFFIC, MAY BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKINGS ON -Y7-, -Y7A-, AND -Y16- FOR PHASE II TRAFFIC PATTERN AS SHOWN ON TMP-22, TMP-27 AND TMP-28.

PHASE II

PHASE II SHIFTS TRAFFIC ONTO THE TWO NEW QUADRANT ROADWAYS SO THAT THE LEFT TURN MOVEMENTS CAN BE REMOVED FROM -L- TO CREATE ADDITIONAL ROOM FOR CONSTRUCTION AT THE INTERSECTION OF -L- AND -Y6-. PHASE II COMPLETES THE LEFT SIDE CONSTRUCTION OF -L- AND CONSTRUCTION OF THE LEFT SIDE OF -Y6-.

(CONTINUE ALL WORK BEGUN IN PHASE I)

STEP 1: INSTALL CHANGABLE MESSAGE SIGNS AS SHOWN ON TMP-20, TMP-21 AND TMP-22.

INSTALL AND COVER ROUTE MARKERS AS SHOWN ON TMP-20, TMP-21 AND TMP-22.

INSTALL TRAFFIC CONTROL SIGNING AND COVER UNTIL TRAFFIC SHIFT.

USING RSD 1101.02, SHEET 1 OF 15, MAY BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKINGS ON THE FOLLOWING:

- -Y5B- AS SHOWN ON TMP-18. USE DRUMS TO KEEP LEFT TURN LANE CLOSED TO TRAFFIC UNTIL TEMPORARY SIGNAL IS ACTIVATED.
- -Y5- AS SHOWN ON TMP-20, INCLUDING CROSSWALK ACROSS -Y5.
- -Y7- AS SHOWN ON TMP-22, INCLUDING CROSSWALK ACROSS -Y7-.
- -Y7A- AS SHOWN ON TMP-22, TMP-27 AND TMP-28, INCLUDING CROSSWALKS ACROSS -Y7A-.
- -Y16- AS SHOWN ON TMP-27, INCLUDING CROSSWALK ACROSS -Y16-.
- -Y17- AS SHOWN ON TMP-28.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASING

09-JUL-2015 15:53
O:\Transportation\Traffic\Curr\100036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_03 - 03D.dgn
WILE2054 AT DUS290940

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-3B

PHASE II - CONTINUED

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE II STEP 2 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 2: USING RSD 1101.02, SHEETS 1, 2, 3, AND 7 OF 15, LAW ENFORCEMENT AND FLAGGERS, COMPLETE THE FOLLOWING WORK:

A. OPENING OF QUADRANT LEFT ROADWAYS WITH NEW TRAFFIC SIGNALS BY COMPLETING THE FOLLOWING:

- PLACEMENT OF PAVEMENT MARKINGS AND SHIFT TRAFFIC TO NEW PATTERN FOR:
  - -Y5B- FROM -Y6- TO STA 14+59+/- AS SHOWN ON TMP-18.
  - -Y6- FROM 7+85+/- TO STA 11+88+/- AS SHOWN ON TMP-18.
  - -L- FROM STA 40+55+/- TO STA 48+16+/- AS SHOWN ON TMP-20.
  - -Y5- FROM STA 8+85+/- TO -L- AS SHOWN ON TMP-20.
  - -Y6- FROM -L- TO STA 34+75+ /- AS SHOWN ON TMP-21 AND TMP-27.
  - -L- FROM STA 66+00+/- TO STA 69+59+/- AS SHOWN ON TMP-22.
  - -Y7- FROM STA 10+00+/- TO -L- AS SHOWN ON TMP-22.
  - -Y7A- FROM -L- TO -Y6- AS SHOWN ON TMP-22, TMP-27 AND TMP-28.
  - -Y16- FROM STA 14+72+/- TO -L- AS SHOWN ON TMP-27.
  - -Y17- FROM -Y7A- TO -Y8- AS SHOWN ON TMP-28.

- TEMPORARY SIGNAL INSTALLATIONS, UNCOVER SIGNS FOR NEW TRAFFIC PATTERN, OPEN -Y7A- AND -Y17- TO TRAFFIC, AND ACTIVATE OPERATION OF THE FOLLOWING SIGNALS:
  - 03-1080T1 -Y6- AT -Y5B-, NEW
  - 03-1081T1 -Y6- AT -Y7A-/-Y16-, NEW
  - 03-1082T1 -L- AT -Y5-, NEW
  - 03-1083T1 -L- AT -Y7-/-Y7A-, NEW

- BEGIN INTEGRATION OF SIGNALS AND CCTV CAMERAS INTO TRAFFIC SIGNAL SYSTEM. SEE SIGNAL COMMUNICATIONS PLAN (SCP) SHEETS FOR DETAILS.

B. ACTIVATE CMS FOR LEFT TURN LANE CLOSURES ON -L- AT -Y6-. CLOSE LEFT TURN LANES FROM -L- ONTO -Y6- TO TRAFFIC. REVISE PAVEMENT MARKINGS AND INSTALL TUBULAR MARKERS ON -L- FROM STA 48+16+/- TO STA 61+57+/- AS SHOWN ON TMP-20 AND TMP-21 AND SHIFT TRAFFIC TO NEW PATTERN. PLACE CROSSWALK MARKINGS ACROSS -Y6- AT -L-. COMPLETE SIGNAL REVISIONS AND ACTIVATE TEMPORARY SIGNAL 03-0049T1.

COVER/REMOVE SIGNAL HEADS AT PRINCESS PLACE, INSTALL PAVEMENT MARKINGS, SIGNS, AND TUBULAR MARKERS AS SHOWN ON TMP-24.

COMPLETE INTEGRATION OF SIGNALS AND CCTV CAMERAS INTO TRAFFIC SIGNAL SYSTEM. SEE SIGNAL COMMUNICATIONS PLAN (SCP) SHEETS FOR DETAILS.

STEP 3: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, BEGIN CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, OF THE FOLLOWING:

- LEFT SIDE OF -L- FROM STA 45+57+/- TO STA 66+11+/- AS SHOWN ON TMP-20 THROUGH TMP-22.

- LEFT SIDE OF -Y1- FROM STA 12+80+/- TO TIE-IN OF -L- AS SHOWN ON TMP-19.

- LEFT SIDE OF -Y6- FROM STA 17+55+/- TO TIE-IN OF -L- AS SHOWN ON TMP-21 AND TMP-24.

- RIGHT SIDE OF -Y6- FROM STA 5+90+/- TO TIE-IN OF -Y5B- AS SHOWN ON TMP-18.

- LEFT SIDE OF -Y6- FROM TIE-IN AT -L- TO STA 30+00+/- AS SHOWN ON TMP-21 AND TMP-27.

STEP 4: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, OF THE RIGHT SIDE OF -Y6- FROM STA 5+90+/- TO TIE-IN OF -Y5B- AS SHOWN ON TMP-18.

PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-24 AND OPEN RIGHT TURN LANE AND SIDEWALK TO TRAFFIC.

STEP 5: USING RSD 1101.02, SHEETS 3 AND 7 OF 15, AS NECESSARY, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE LEFT SIDE OF -Y6- FROM STA 5+90+/- TO STA 10+15+/- AS SHOWN ON TMP-24, INCLUDING WEDGING.

USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE OF THE FOLLOWING:

- RIGHT SIDE OF -Y15- FROM STA 13+35+/- TO 5′ OFFSET FROM -Y6- AS SHOWN ON TMP-24.

- LEFT SIDE OF -Y6- FROM STA 10+15+/- TO STA 12+50+/- AS SHOWN ON TMP-24.

- LEFT SIDE OF -Y6- FROM 12+50+/- TO TIE-IN AT EXISTING PRINCESS PLACE, MAINTAINING A 5′ OFFSET TO EXISTING LANE ON -Y6-, AS SHOWN ON TMP-24.

STEP 6: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE FOLLOWING:

- LEFT SIDE OF -Y6- FROM TIE-IN OF EXISTING PRINCESS PLACE TO STA 17+55+/- AS SHOWN ON TMP-25.

- -DR1- FROM TIE-IN AT -Y15- TO STA 11+75+/-, MAINTAINING A 5′ OFFSET TO EXISTING TRAVELWAY OF -Y15-, AS SHOWN ON TMP-25.

- PROPOSED DRIVEWAY ON LEFT SIDE OF -Y6- AT STA 16+66+/- AS SHOWN ON TMP-25.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE II STEP 7A THROUGH STEP 7C WITHIN 14 CALENDAR DAYS. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 7: CLOSE AND COMPLETE CONSTRUCTION OF -Y15- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:

A. AS SHOWN ON TMP-26:
- USING RSD 1101.02, SHEET 3 OF 15, CLOSE WESTBOUND RIGHT TURN LANE ON -Y6- FROM -L- TO -Y15-.
- USING RSD 1101.03, SHEET 2 OF 9, CLOSE -Y15- AND DETOUR TRAFFIC AS SHOWN ON TMP-51.
- PLACE TRAFFIC ON NEW DRIVEWAY AND CLOSE EXISTING DRIVEWAY FROM -Y6- (STA 16+66).
- CLOSE EXISTING DRIVEWAY FROM -Y15-.

B. COMPLETE CONSTRUCTION OF -Y15- AND -DR1-.

COMPLETE LEFT SIDE OF -Y6- FROM STA 12+50+/- TO STA 17+55+/-, TO A POINT THAT THE RIGHT TURN LANE BETWEEN -L- AND -Y15- CAN BE OPENED TO TRAFFIC USING THE NEW -Y15- ALIGNMENT IN THE NEXT STEP. MINIMUM CONSTRUCTION SHALL INCLUDE THE CURB, GUTTER AND SIDEWALK.

C. PLACE TEMPORARY PAVEMENT MARKINGS AND SIGNING FOR -Y15- AND -Y6- AS SHOWN IN INSET ON TMP-26. OPEN -Y15- ON NEW ALIGNMENT. OPEN WESTBOUND RIGHT TURN LANE ON -Y6- BETWEEN -L- AND -Y15-. OPEN -DR1- TO TRAFFIC. OPEN SIDEWALKS ON LEFT SIDE OF -Y6- AND LEFT SIDE OF -Y15-.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B80A2A246... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASING

09-JUL-2015 15:53
n:\Transportation\Traffic\Curr\U0036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_03 - 030.dgn
WILE2054 AT DGS290\40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-3C

PHASE II - CONTINUTED

STEP 8: USING RSD 1101.02, SHEETS 1, 2 AND 3 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING FINAL SURFACE COURSE OF THE FOLLOWING:

- LEFT SIDE OF -L- FROM STA 11+00+/- TO STA 39+40+/- AS SHOWN ON TMP-04 THROUGH TMP-06.
- LEFT SIDE OF -L- FROM STA 45+57+/- TO STA 66+11+/- AS SHOWN ON TMP-20 THROUGH TMP-22.
- LEFT SIDE OF -L- FROM -L- STA 67+88+/- TO STA 96+71+/- AS SHOWN ON TMP-9, TMP-11 AND TMP-12.
- -Y- FROM STA 11+00+/- TO TIE-IN OF -L- AS SHOWN ON TMP-04.
- LEFT SIDE OF -Y1- FROM -Y1- STA 12+80+/- TO TIE-IN OF -L- AS SHOWN ON TMP-19.
- -Y3- FROM STA 14+85+/- TO STA 15+50+/- AS SHOWN ON TMP-05.
- LEFT SIDE OF -Y6- FROM STA 5+90+/- TO STA 10+15+/- AS SHOWN ON TMP-24, INCLUDING WEDGING.
- LEFT SIDE OF -Y6- FROM STA 12+50+/- TO STA 30+00+/- AS SHOWN ON TMP-21, TMP-24 AND TMP-27.
- -Y8- FROM 12+00+/- TO TIE-IN OF -L- AS SHOWN ON TMP-09.
- -Y10- FROM STA 11+49+/- TO TIE-IN OF -L- AS SHOWN ON TMP-11
- -Y11- FROM STA 12+61+/- TO TIE-IN OF -L- AS SHOWN ON TMP-11.

USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, COMPLETE PAVEMENT REPAIR OF ALL AREAS ALONG EXISTING ROADWAYS AS APPROVED BY THE ENGINEER.

USING RSD 1101.02, SHEET 1 OF 15, MAY BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKINGS -Y3-, -Y4-, -Y8-, -Y10-, AND -Y11- AS SHOWN ON TMP-30, TMP-31, TMP-33 AND TMP-34.

PHASE III

PHASE III SHIFTS TRAFFIC ONTO THE NEWLY CONSTRUCTED LEFT SIDE OF -L- AND THE LEFT SIDE OF -Y6- SO THAT THE RIGHT SIDES OF -L- AND -Y6- CAN BE CONSTRUCTED. ALL -Y- LINES ON THE RIGHT SIDE OF -L- ARE ALSO TO BE CONSTRUCTED AT THIS TIME.

(CONTINUE ALL WORK BEGUN IN PHASE I OR II THAT HAS NOT BEEN COMPLETED)

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE III STEP 1 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 1: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, LAW ENFORCEMENT AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES, SIGNING, AND COMPLETE INSTALLATION/REVISION OF TEMPORARY SIGNALS FOR PHASE III PATTERN AND SHIFT TRAFFIC TO NEW PATTERN FOR:

- -L- FROM STA 11+56+/- TO STA 91+79+/- AS SHOWN ON TMP-29 THROUGH TMP-35.
- -YA- FROM STA 10+25+/- TO STA 10+91+/- AS SHOWN ON TMP-29.
- -Y1- FROM STA 15+00+/- TO STA 20+00+/- AS SHOWN ON TMP-29.
- -Y2- FROM STA 10+10+/- TO STA 10+45+/- AS SHOWN ON TMP-30.
- -Y3- FROM STA 14+85+/- TO STA 15+16+/- AS SHOWN ON TMP-30.
- -Y4- FROM STA 10+15+/- TO STA 10+49+/- AS SHOWN ON TMP-31.
- -Y6- FROM STA 10+24+/- TO STA 34+69+/- AS SHOWN ON TMP-32, TMP-37, AND TMP-38.
- -Y7A- FROM STA 11+08+/- TO STA 10+17+/- AS SHOWN ON TMP-33.
- -Y8- FROM STA 12+09+/- TO STA 13+88+/- AS SHOWN ON TMP-33.
- -Y10- FROM STA 11+48+/- TO STA 13+37+/- AS SHOWN ON TMP-34.
- -Y11- FROM STA 12+60+/- TO STA 13+11+/- AS SHOWN ON TMP-34.
- -Y12- FROM STA 10+11+/- TO STA 10+27+/- AS SHOWN ON TMP-34.
- -Y16- FROM STA 17+00+/- TO STA 17+50+/- AS SHOWN ON TMP-38.

STEP 2: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, CONSTRUCT, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, OF THE FOLLOWING:

- RIGHT SIDE OF -L- FROM -L- STA 11+00+/- TO STA 66+11+/- AS SHOWN ON TMP-29 THROUGH TMP-33.
- RIGHT SIDE OF -L- FROM -L- STA 67+88+/- TO STA 91+20+/- AS SHOWN ON TMP-33 THROUGH TMP-35.
- -YA- FROM TO TIE-IN OF -L- TO STA 10+91+/- AS SHOWN ON TMP-29.
- -Y1- FROM TIE-IN AT -L- TO STA 29+27+/- AS SHOWN ON TMP-29 AND TMP-36.
- -Y2- FROM TIE-IN AT -L- TO STA 12+58+/- AS SHOWN ON TMP-30.
- -Y4- FROM TIE-IN AT -L- TO STA 11+10+/- AS SHOWN ON TMP-31.
- RIGHT SIDE OF -Y6- FROM STA 10+15+/- TO STA 34+69+/- AS SHOWN ON TMP-32, TMP-37 AND TMP-38, INCLUDING WEDGING.
- -Y8- FROM TIE-IN AT -L- TO STA 17+02+/- AS SHOWN ON TMP-33.
- -Y9- FROM TIE-IN AT -L- TO STA 11+71+/- AS SHOWN ON TMP-34.
- -Y12- FROM TIE-IN AT -L- TO STA 11+36+/- AS SHOWN ON TMP-34.
- -Y13- FROM STA 11+78 TO STA 12+53+/- AS SHOWN ON TMP-35.

BEGIN INSTALLATION OF TEMPORARY SIGNAL AT INTERSECTION OF -L- AT -Y11-/-Y12-. COVER SIGNAL HEADS OF TEMPORARY INSTALLATION UNTIL TEMPORARY SIGNAL IS PUT IN FLASH MODE. NEW SIGNAL LOCATION SHALL BE PUT IN FLASH A MINIMUM OF TWO WEEKS PRIOR TO ACTIVATION AT THE BEGINNING OF PHASE IV [TMP-44].

USING RSD 1101.02, SHEETS 1 AND 2 OF 15, AS NECESSARY, COMPLETE -SR1-, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-34 AND TMP-35. USE TYPE III BARRICADE TO KEEP -SR1- CLOSED TO TRAFFIC.

AWAY FROM TRAFFIC, MAY BEGIN PLACEMENT OF TEMPORARY PAVEMENT MARKINGS ON -YA-, -Y2-, -Y4-, -Y8-, -Y9-, AND -SR1- IN PATTERN SHOWN ON TMP-39, TMP-40, TMP-41, TMP-43, TMP-44, AND TMP-45.

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B60A3A2466... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASING

09-JUL-2015 15:53
q:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_03 - 030.dgn
WILE2054 AT DUS290AO

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PHASING

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-3D

PHASE IV

PHASE IV SHIFTS NB TRAFFIC ON -L- AND EASTBOUND TRAFFIC ON -Y6- ONTO THE NEWLY CONSTRUCTED RIGHT SIDE, WHILE MAINTAINING SB AND WB TRAFFIC IN THE FAR LEFT LANE SO THAT THE MEDIANS IN THE CENTER OF -L- AND -Y6- AND ANY REMAINING WEDGING CAN BE CONSTRUCTED TO GET TO THE FINAL CROSS SECTION UP TO BUT NOT INCLUDING FINAL SURFACE COURSE. -Y13- IS ALSO CLOSED IN THIS PHASE AND CORRESPONDS WITH THE OPENING OF -SR1-. THE CLOSURE OF -Y13- ALSO ALLOWS THE COMPLETION OF CURB AND GUTTER CONSTRUCTION ON THE RIGHT SIDE OF -L-. FINAL SIGNAL DESIGNS ARE INSTALLED IN THIS PHASE.

(CONTINUE ALL WORK BEGUN IN PHASE I, II OR III THAT HAS NOT BEEN COMPLETED)

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE IV STEP 1 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 1: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, LAW ENFORCEMENT AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES, SIGNING, AND COMPLETE INSTALLATION/REVISION OF TEMPORARY SIGNALS FOR PHASE IV PATTERN AND SHIFT TRAFFIC TO THE NEW PATTERN FOR:

- -L- FROM STA 11+62+/- TO STA 93+89+/- AS SHOWN ON TMP-39 THROUGH TMP-45.
- -Y6- FROM STA 6+90+/- TO STA 34+71+/- AS SHOWN ON TMP-42, TMP-48, AND TMP-49.
- -YA- FROM STA 10+34+/- TO STA 10+91+/- AS SHOWN ON TMP-39.
- -Y1- FROM STA 12+76+/- TO STA 23+27+/- AS SHOWN ON TMP-39, TMP-46 AND TMP-47.
- -Y2- FROM -L- TO STA 12+58+/- AS SHOWN ON TMP-40.
- -Y4- FROM -L- TO STA 11+10+/- AS SHOWN ON TMP-41.
- -Y5- FROM -L- TO STA 16+97+/- AS SHOWN ON TMP-41.
- -Y7A- FROM -L- TO STA 10+81+/- AS SHOWN ON TMP-43.
- -Y8- FROM STA 13+70+/- TO STA 17+02+/- AS SHOWN ON TMP-43.
- -Y9- FROM -L- TO STA 11+71+/- AS SHOWN ON TMP-44.
- -Y10- FROM -L- TO STA 13+17+/- AS SHOWN ON TMP-44.
- -Y12- FROM -L- TO STA 11+34+/- AS SHOWN ON TMP-44.
- -SR1- FROM STA 10+26+/- TO STA 18+70+/- AS SHOWN ON TMP-44 AND TMP-45.
- -Y16- FROM STA 14+72+/- TO -Y6- AS SHOWN ON TMP-49.

STEP 2: PERMANENTLY CLOSE -Y13- BETWEEN -L- AND STA 11+75+/- AND OPEN -SR1- TO TRAFFIC AS SHOWN ON TMP-44 AND TMP-45.

USING RSD 1101.02, SHEETS 1, 3, AND 7 OF 15, AS NECESSARY, COMPLETE CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, OF THE FOLLOWING:

- -L- FROM -L- STA 11+62+/- TO STA 96+68+/- AS SHOWN ON TMP-39 THROUGH TMP-45.
- -Y6- FROM STA 10+20+/- TO STA 33+71+/- AS SHOWN ON TMP-42, TMP-48, AND TMP-49.
- -Y1- FROM STA 12+81+/- TO STA 22+00+/- AS SHOWN ON TMP-39 AND TMP-46.
- MEDIANS AND MONOLITHIC ISLANDS ON -L- AND ALL -Y- LINES
- PAVEMENT REMOVAL FROM -L- TO -Y13- STA 11+75+/-

USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, AS NECESSARY, BEGIN INSTALLATION OF FINAL SIGNALS. COVER SIGNAL HEADS OF FINAL INSTALLATIONS UNTIL SIGNAL CONTROL IS TRANSFERRED FROM TEMPORARY INSTALLATION TO FINAL SIGNAL AT EACH LOCATION.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE IV STEP 3 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 7:00 PM FRIDAY TO 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 3: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, LAW ENFORCEMENT AND FLAGGERS, PLACE TEMPORARY PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES, SIGNING, AND COMPLETE INSTALLATION/REVISION OF FINAL SIGNALS FOR FINAL PATTERN AND SHIFT TRAFFIC TO FOR FINAL PATTERN.

STEP 4: USING RSD 1101.02, SHEETS 1, 2, 3 AND 7 OF 15, LAW ENFORCEMENT AND FLAGGERS, INSTALL FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS.

STEP 5: REMOVE ALL UNUSED EQUIPMENT AND MATERIALS AT TEMPORARY SIGNAL LOCAITONS.

REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: J. Todd Brooks 8E5B1B80A2A466... DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

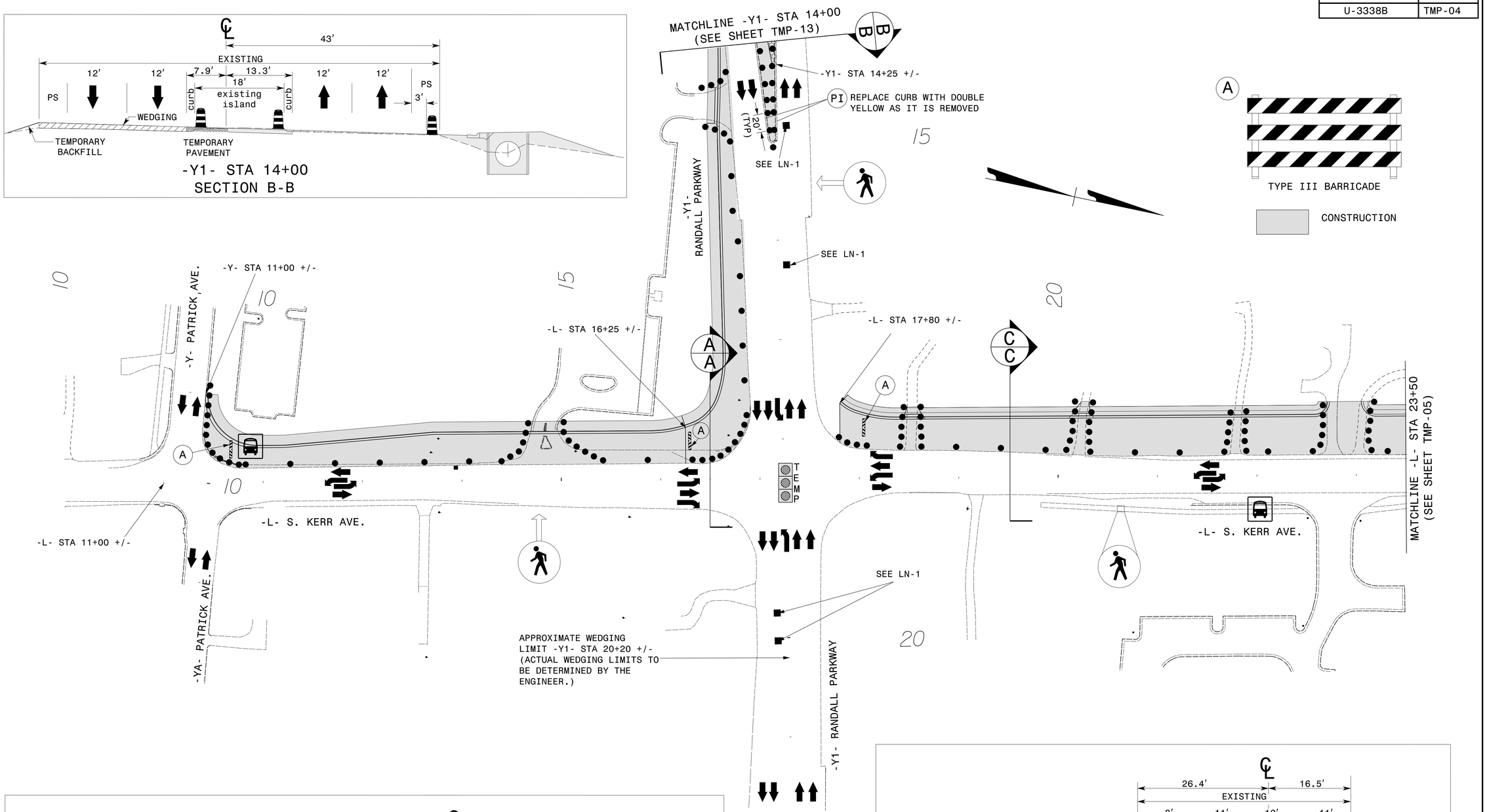
PHASING

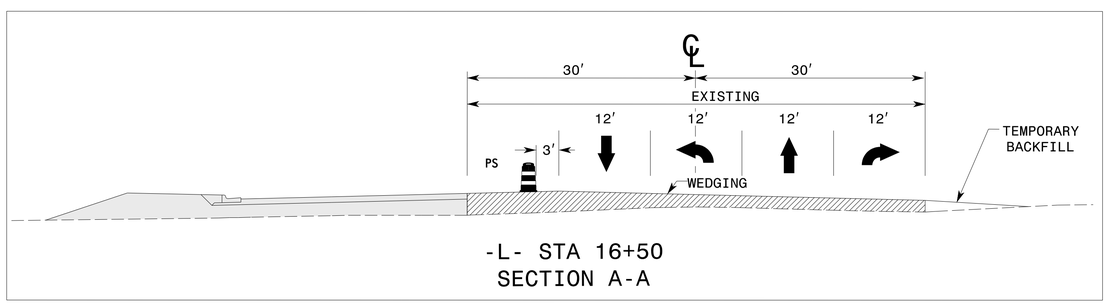
09-JUL-2015 15:53
U:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_03 - 030.dgn
WILE2034 AT DUS290\0

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

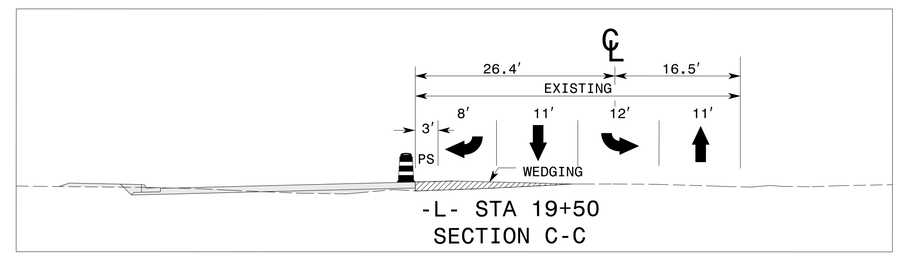
PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-04

-Y1- STA 14+00
SECTION B-B





-L- STA 16+50
SECTION A-A



-L- STA 19+50
SECTION C-C

APPROVED: DocuSigned by: BE5D7B60A2A2486... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

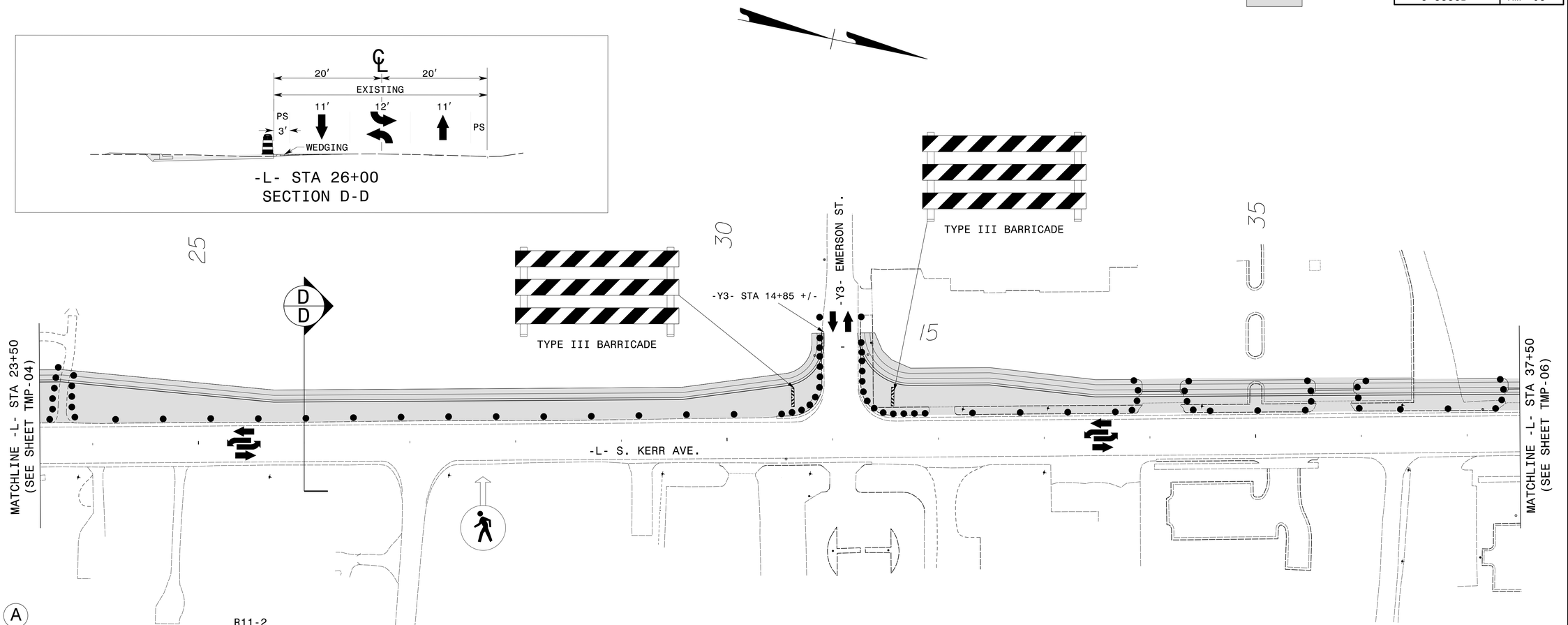
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

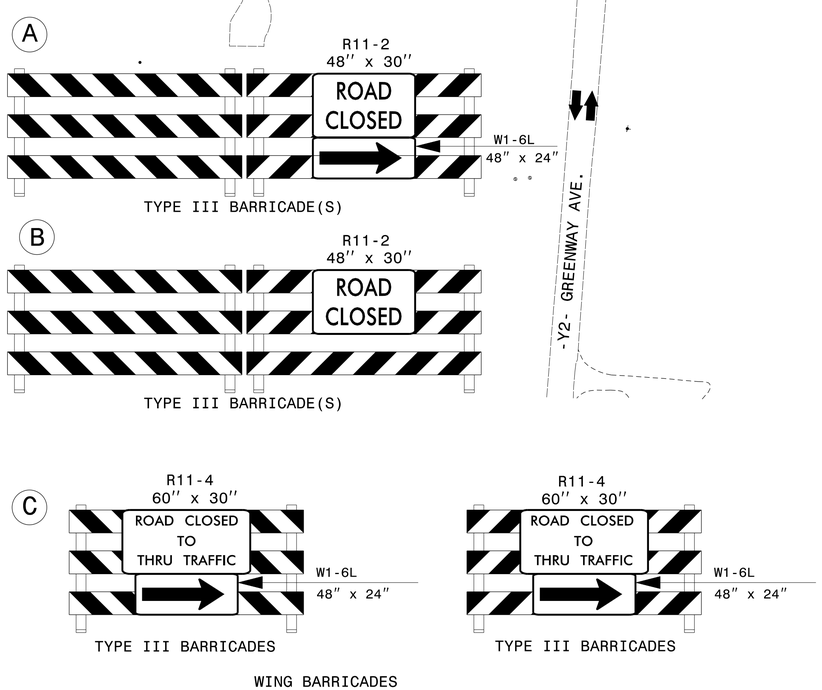
09-JUL-2015 15:37
q:\transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_04.dgn
WILEZOSI AT DLS230040

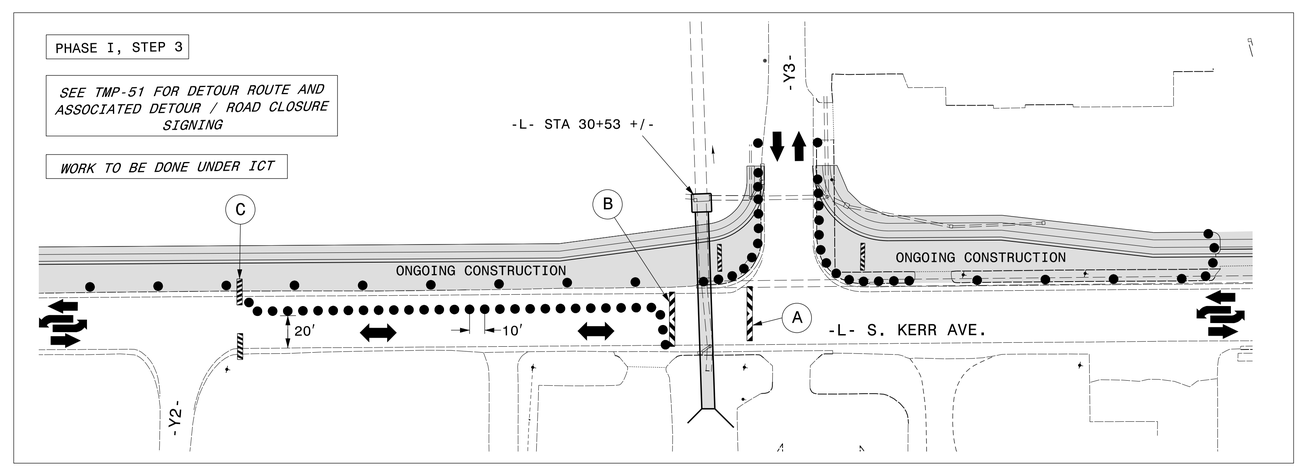
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-05







APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

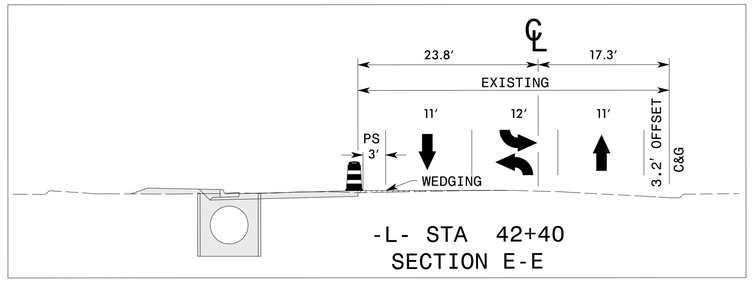
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_05.dgn
WILE2051 AT DLS290140

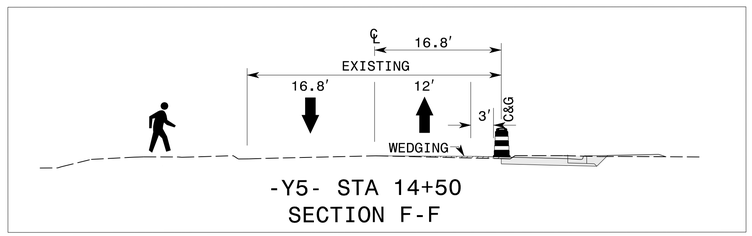
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-06

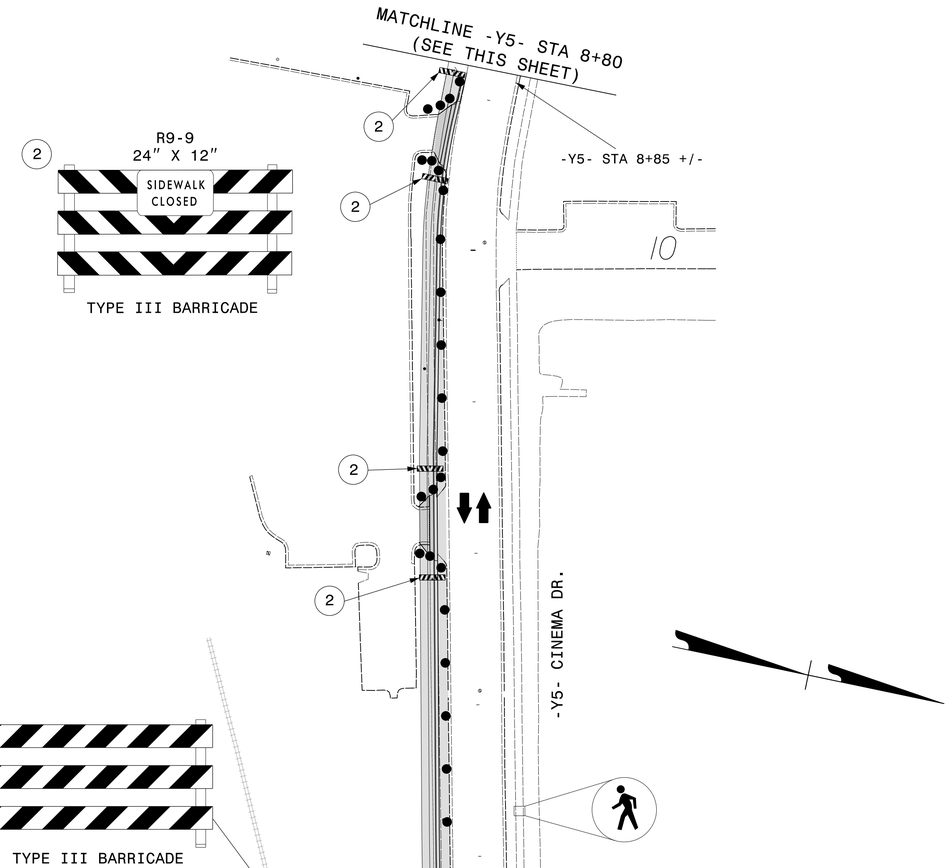
CONSTRUCTION

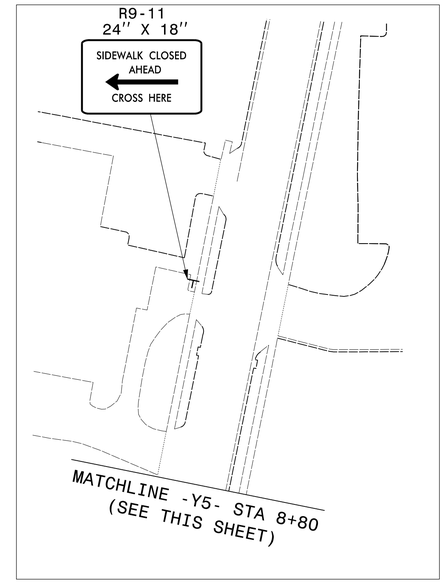


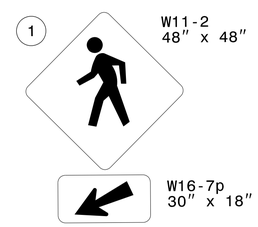
-L- STA 42+40
SECTION E-E



-Y5- STA 14+50
SECTION F-F







W11-2 & W16-7P SIGNS SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

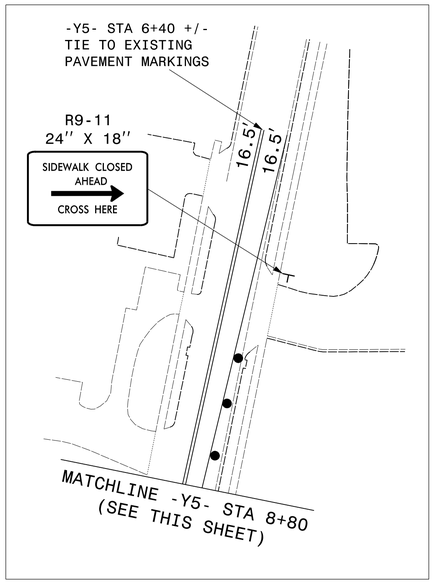
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

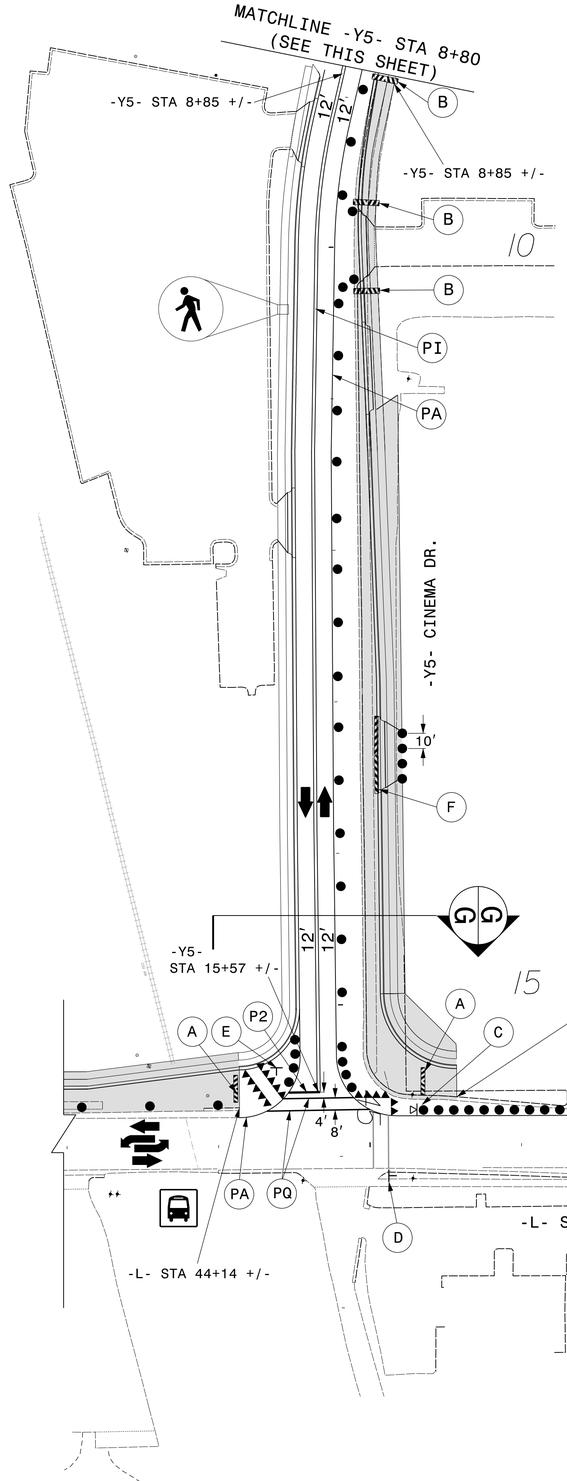
09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\F0R NCDOT\U3338B_TC_TCP_06.dgn
WILE2054 AT DD5290140

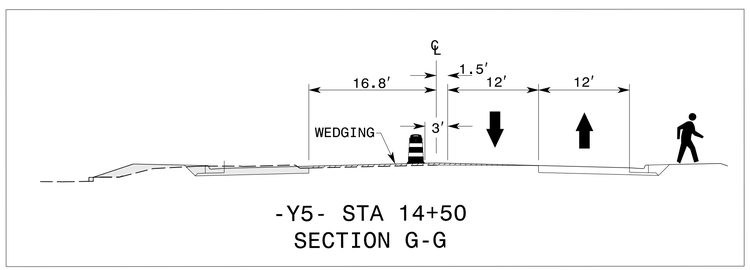
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

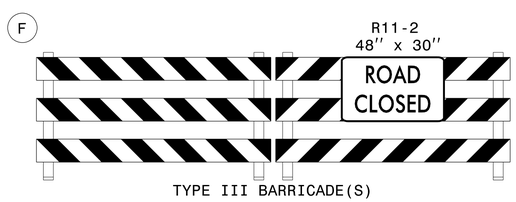
PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-07



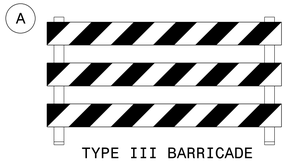




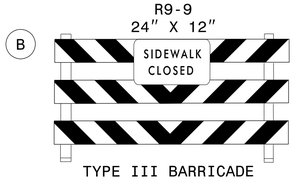
-Y5- STA 14+50
SECTION G-G



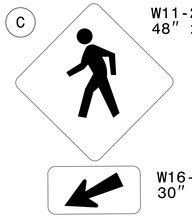
TYPE III BARRICADE(S)

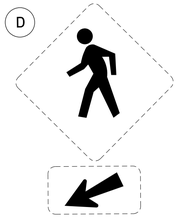


TYPE III BARRICADE



TYPE III BARRICADE





W11-2 & W16-7P SIGNS
SHALL HAVE A BLACK
LEGEND ON ORANGE
BACKGROUND

R1-1
36" X 36"

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B80A2A2486... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

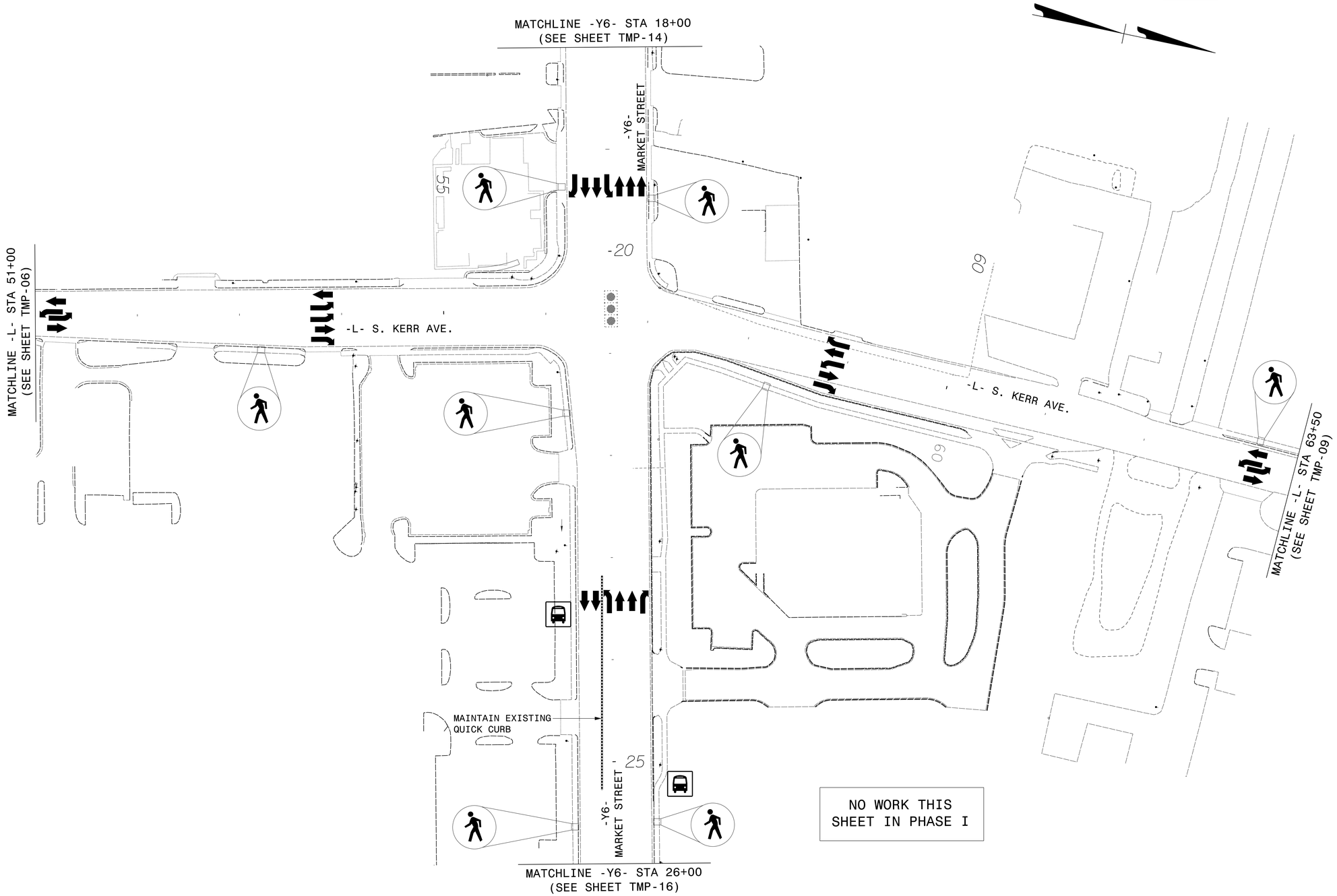
PHASE I DETAIL

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_07.dgn
WILE2054 AT DDS290\40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-08



NO WORK THIS
SHEET IN PHASE I

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

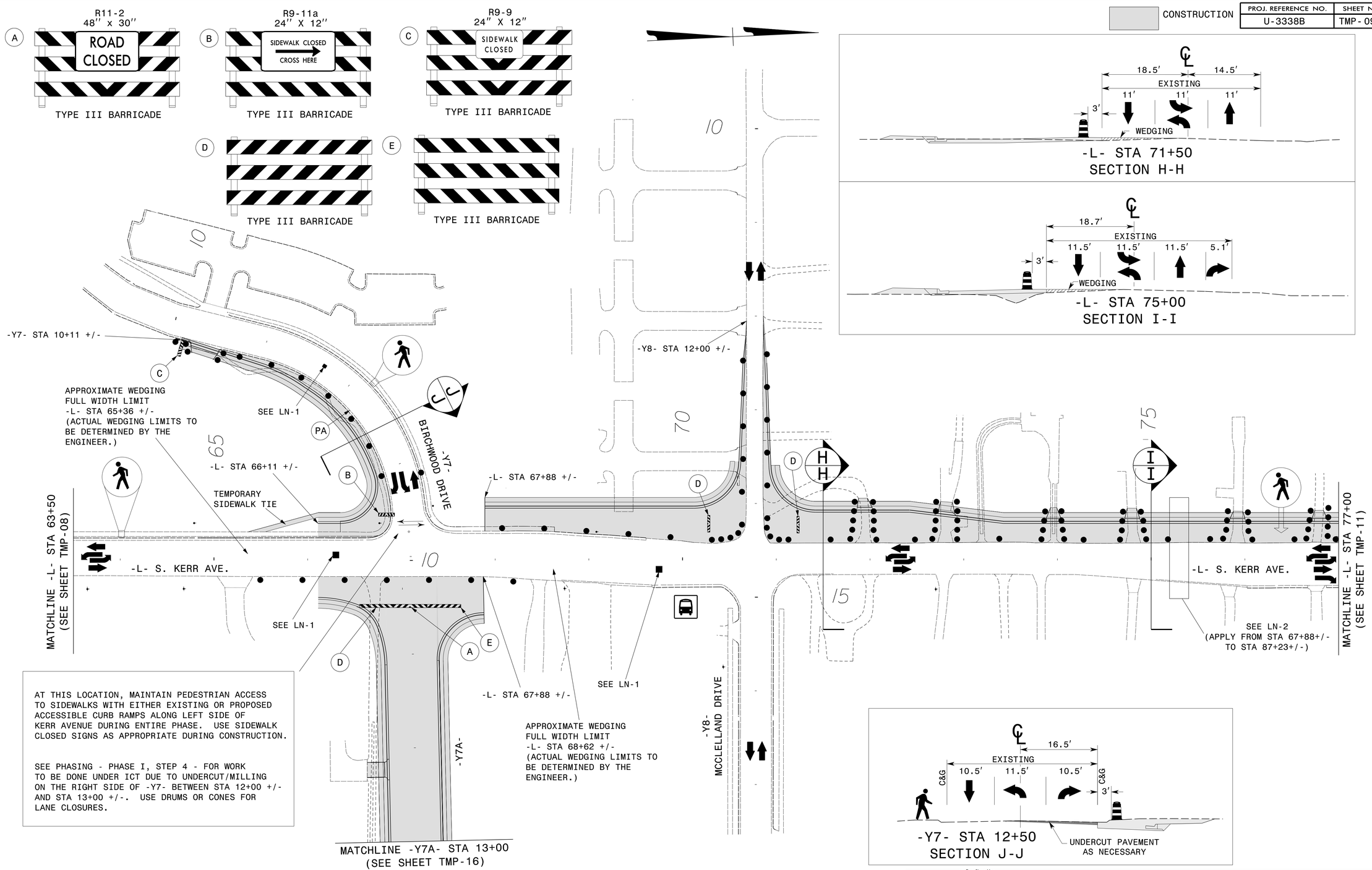
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
n:\transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_08.dgn
WILLE204 AT DS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-09



AT THIS LOCATION, MAINTAIN PEDESTRIAN ACCESS TO SIDEWALKS WITH EITHER EXISTING OR PROPOSED ACCESSIBLE CURB RAMPS ALONG LEFT SIDE OF KERR AVENUE DURING ENTIRE PHASE. USE SIDEWALK CLOSED SIGNS AS APPROPRIATE DURING CONSTRUCTION.

SEE PHASING - PHASE I, STEP 4 - FOR WORK TO BE DONE UNDER ICT DUE TO UNDERCUT/MILLING ON THE RIGHT SIDE OF -Y7- BETWEEN STA 12+00 +/- AND STA 13+00 +/-. USE DRUMS OR CONES FOR LANE CLOSURES.

APPROVED: DocuSigned by: 8E5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

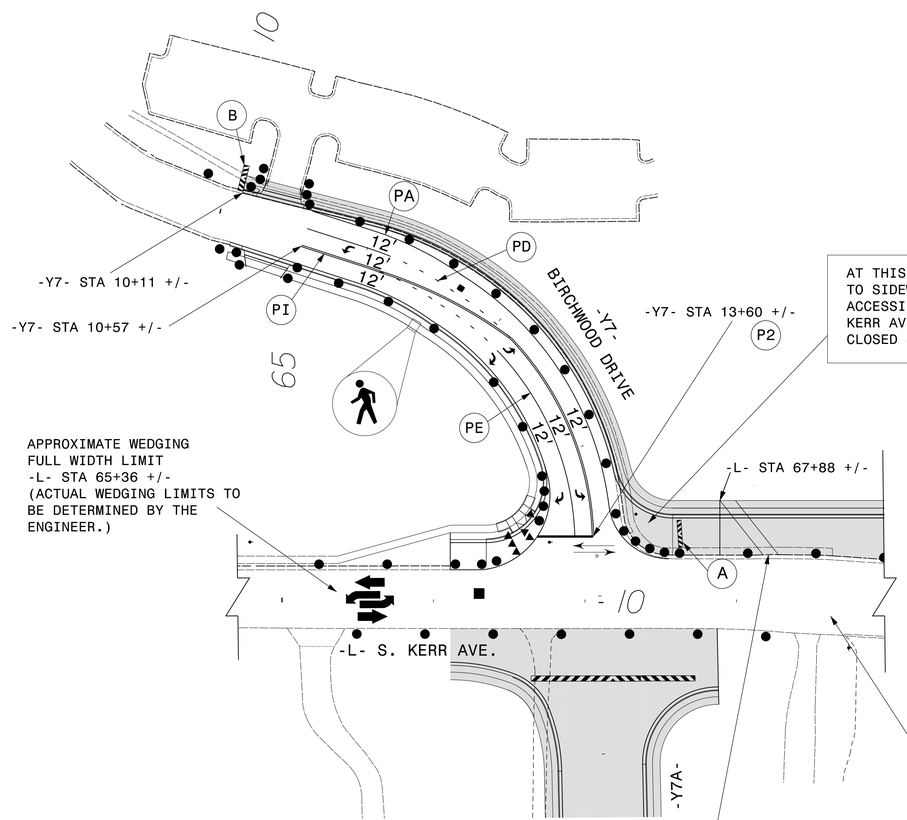
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_09.dgn
WILE2054 AT DDS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-10

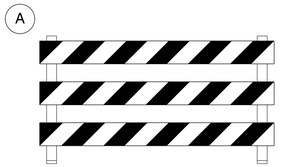


AT THIS LOCATION, MAINTAIN PEDESTRIAN ACCESS TO SIDEWALKS WITH EITHER EXISTING OR PROPOSED ACCESSIBLE CURB RAMPS ALONG LEFT SIDE OF KERR AVENUE DURING ENTIRE PHASE. USE SIDEWALK CLOSED SIGNS AS APPROPRIATE DURING CONSTRUCTION.

AT THE END OF PHASE I, STEP 2, IF PROPOSED SIDEWALK IS NOT COMPLETED NORTH OF -L- 67+88 +/-, INSTALL TEMPORARY TIE TO EXISTING SIDEWALK UNTIL THE PROPOSED SIDEWALK IS BUILT

APPROXIMATE WEDGING
FULL WIDTH LIMIT
-L- STA 68+62 +/-
(ACTUAL WEDGING LIMITS TO
BE DETERMINED BY THE
ENGINEER.)

A



TYPE III BARRICADE

B

R9-9
24" X 12"

TYPE III BARRICADE

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

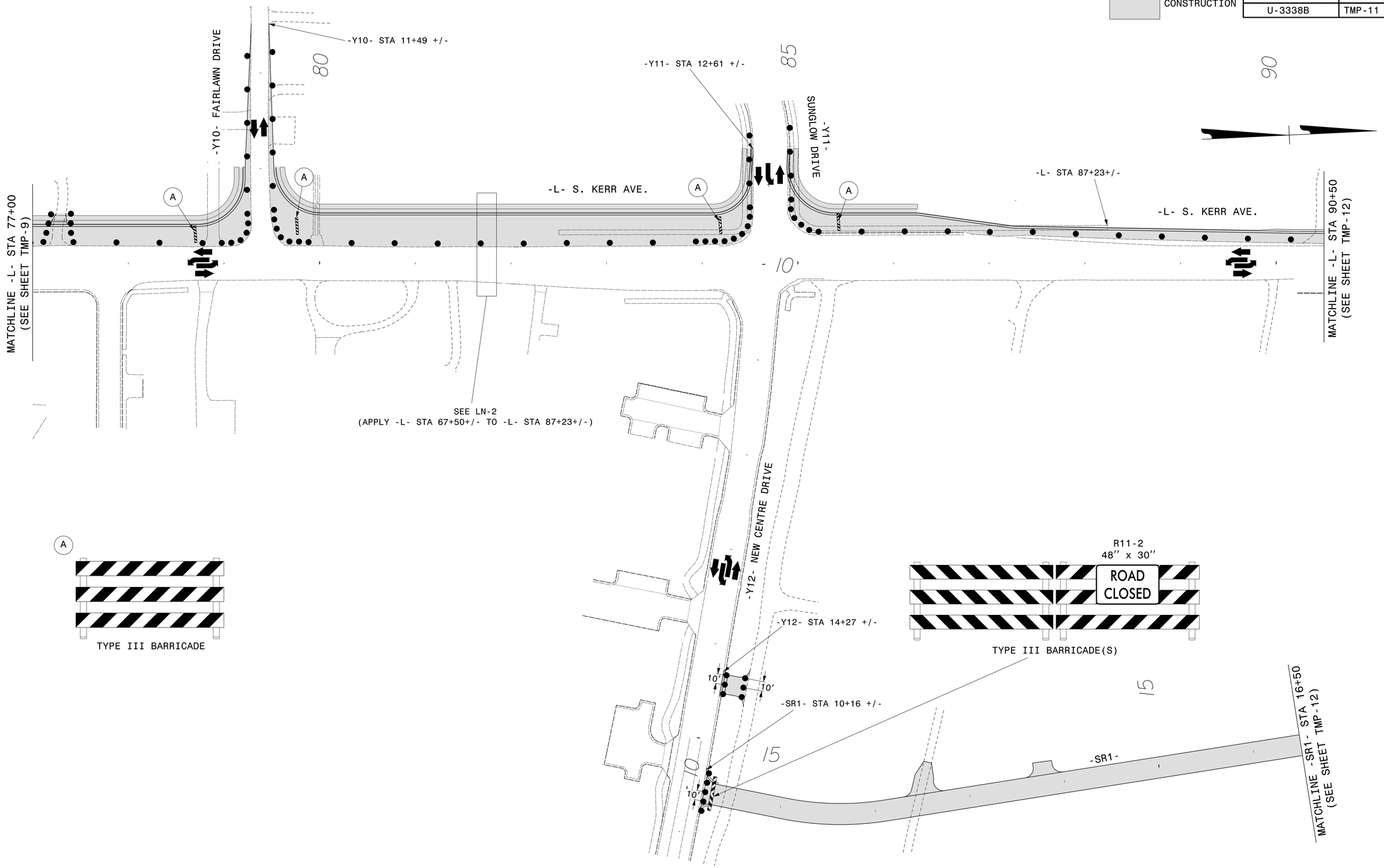
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_10.dgn
WILZ054 AT DUS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-11



APPROVED: DocuSigned by: BE5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

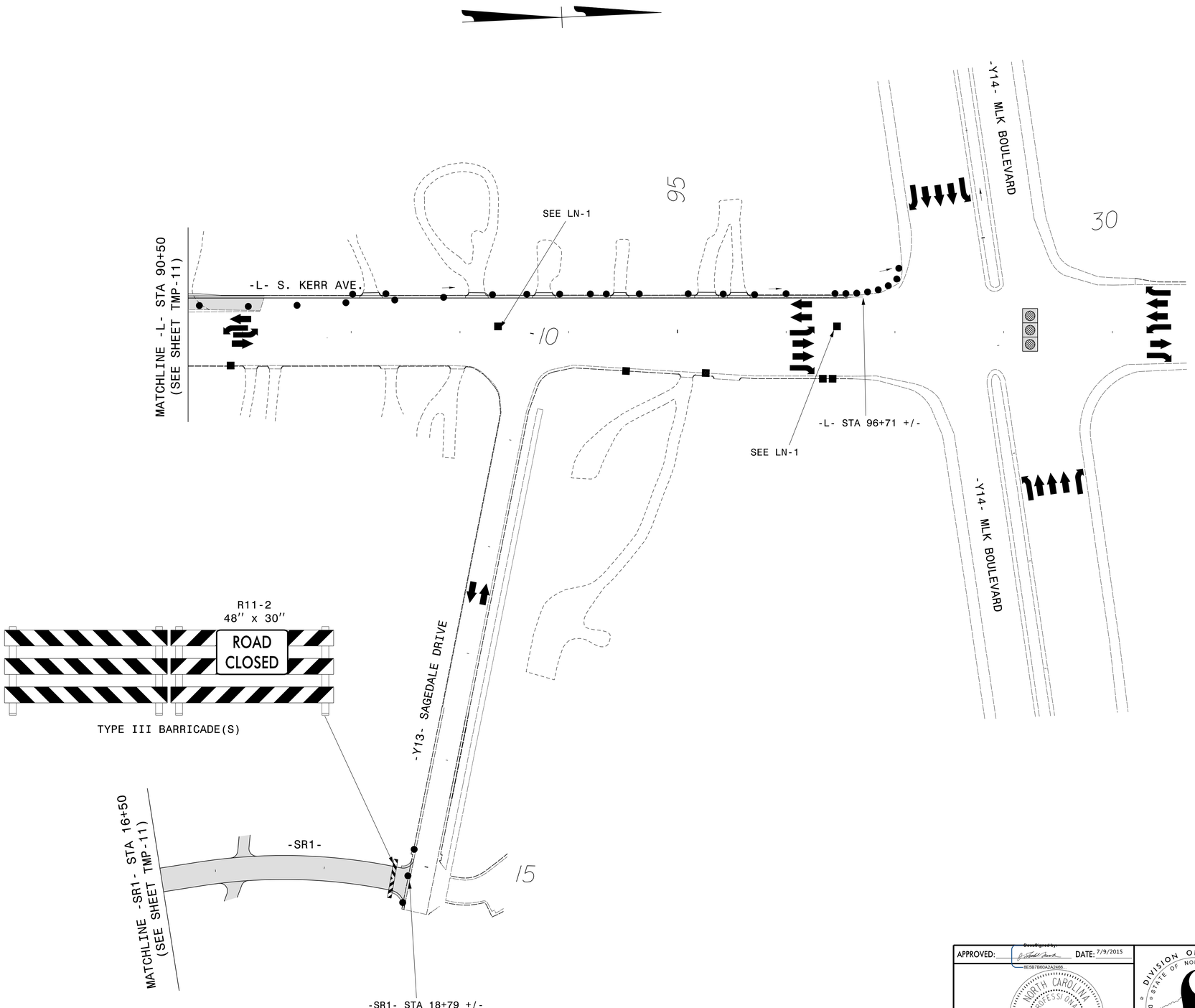
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_II.dgn
WILL2054 AT DOS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-12



ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 9E5B7B90A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

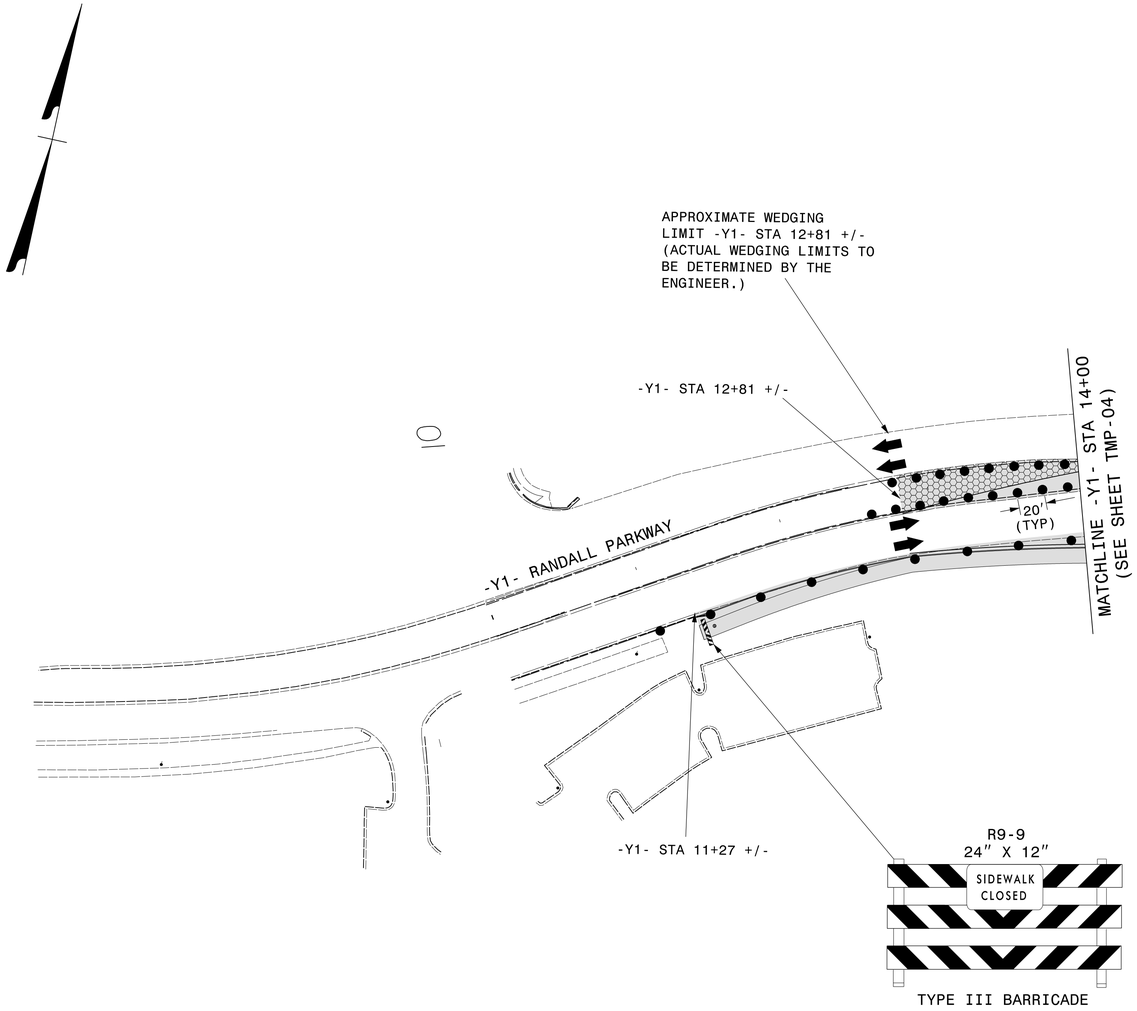
PHASE I DETAIL

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_J2.dgn
WILE2051 AT DL5290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-13



APPROVED: DocuSigned by: J. Todd Brooks BE5B7B80A2A2486... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

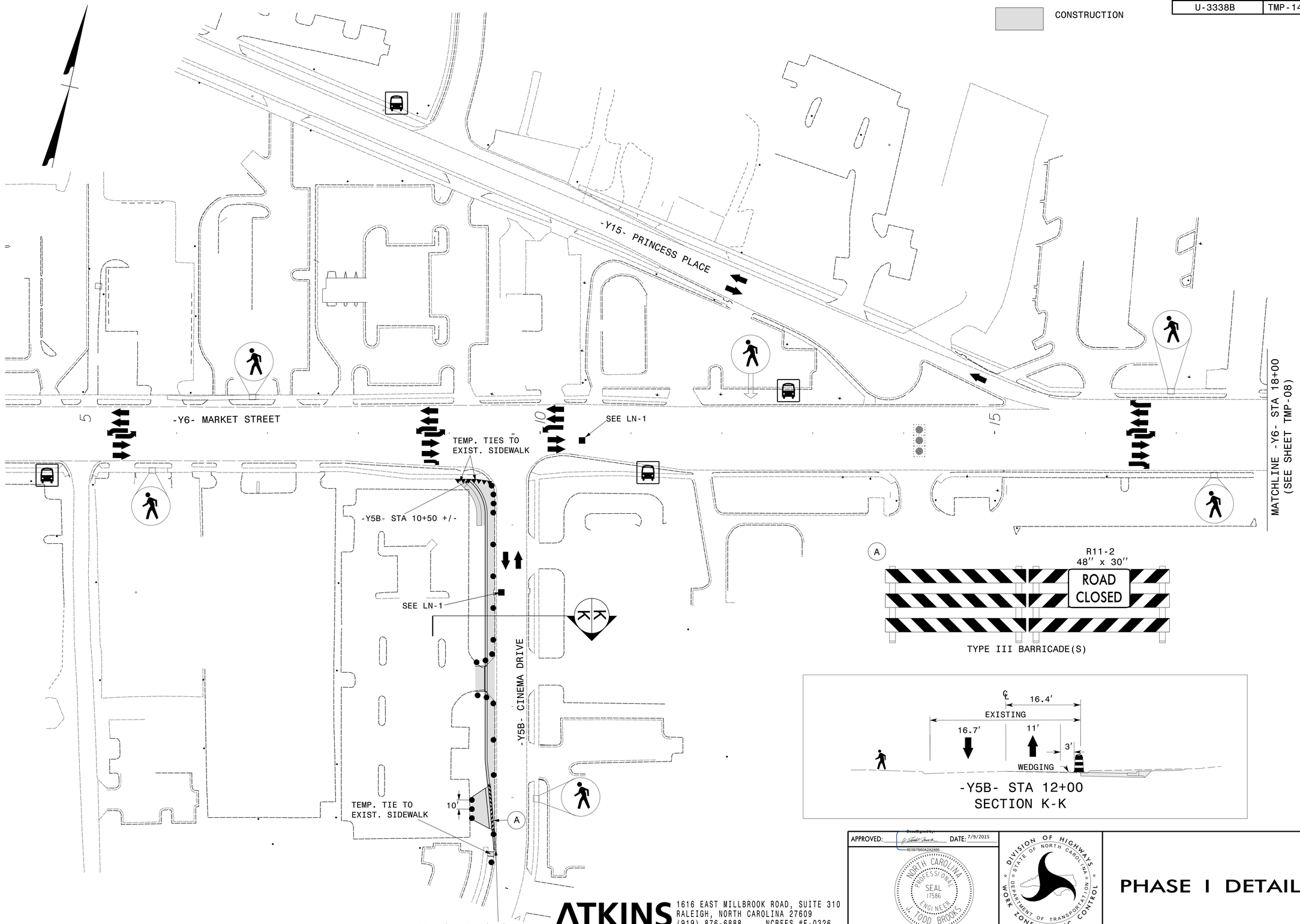
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_13.dgn
WILL2054 AT DDS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-14

CONSTRUCTION



APPROVED: DocuSigned by: 8E5B7B60A2A2460... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

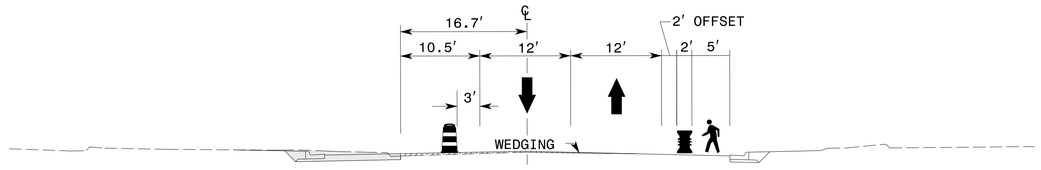
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_14.dgn
WILLE2054 AT DUS290140

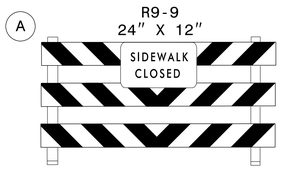
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-15

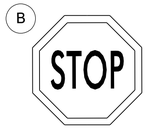
CONSTRUCTION



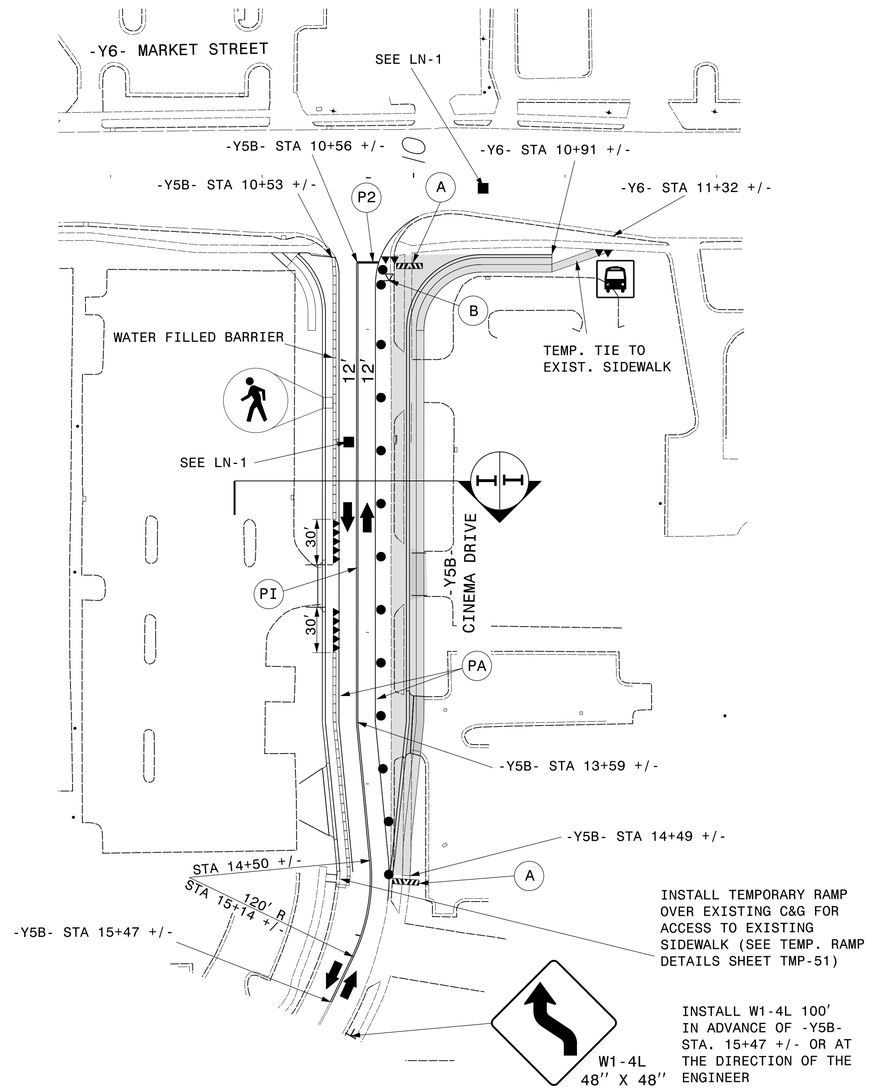
-Y5B- STA 12+00
SECTION I-I



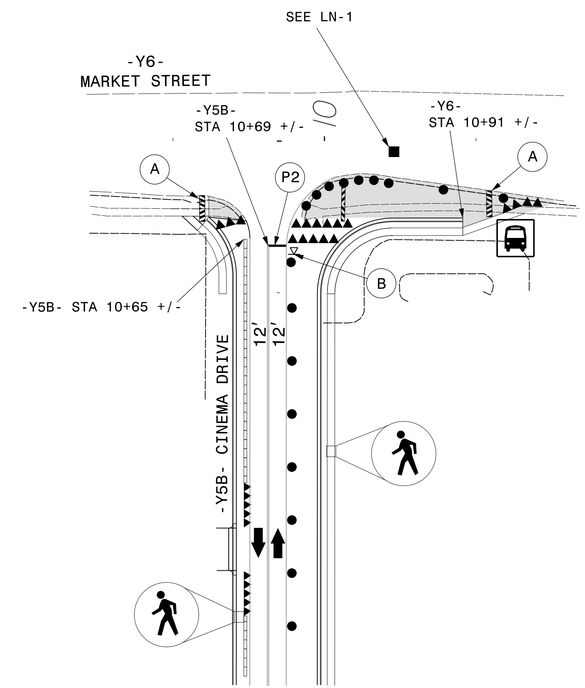
TYPE III BARRICADE



R1-1
36" X 36"



INSET 1



INSET 2

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B00A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

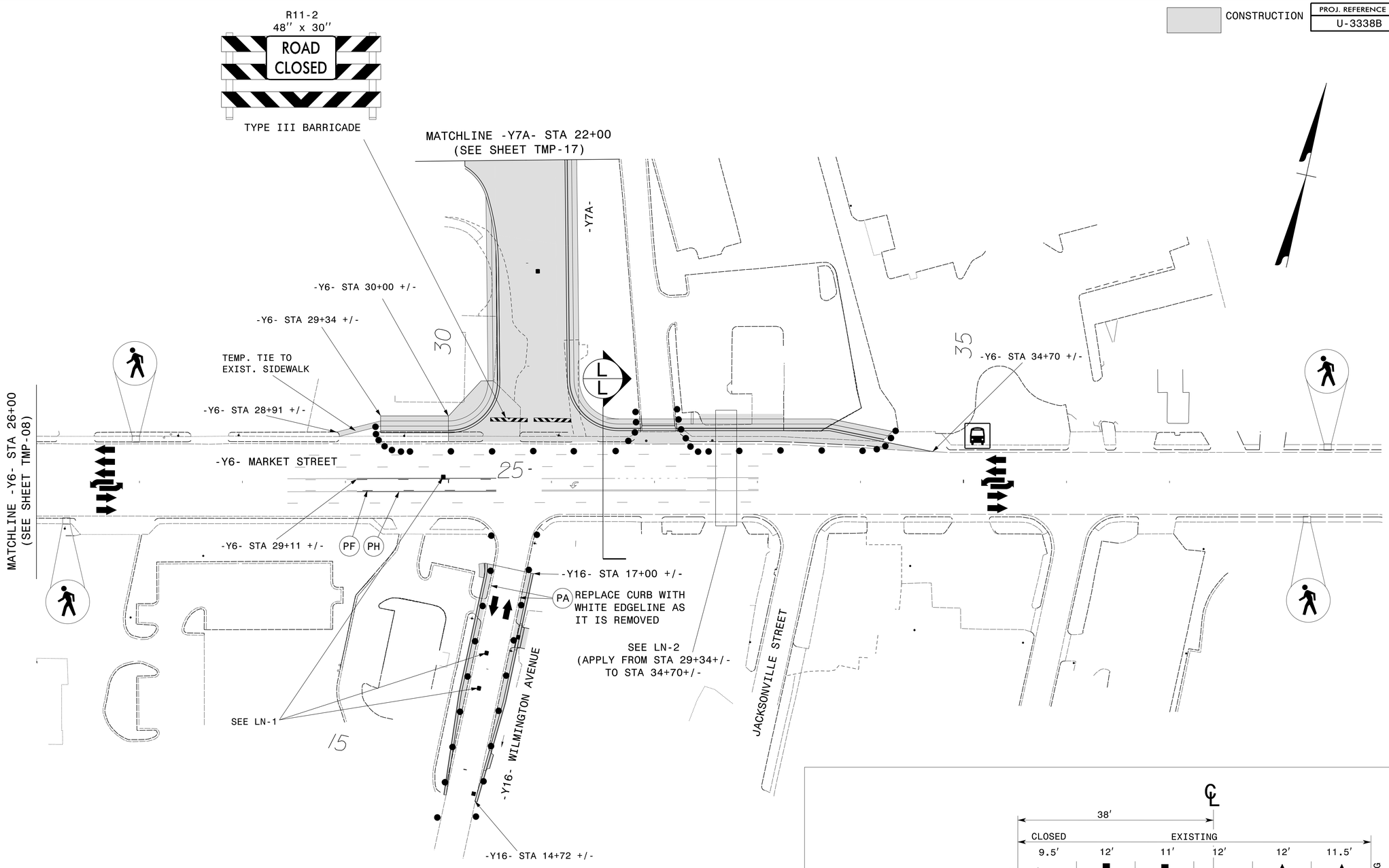
PHASE I DETAIL

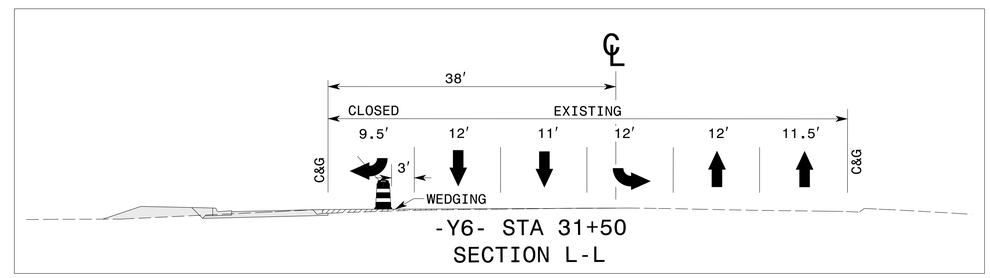
09-JUL-2015 15:37
G:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_I5.dgn
WILLE2054 AT DIS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-16

CONSTRUCTION





-Y6- STA 31+50
SECTION L-L

APPROVED: DocuSigned by: BE5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

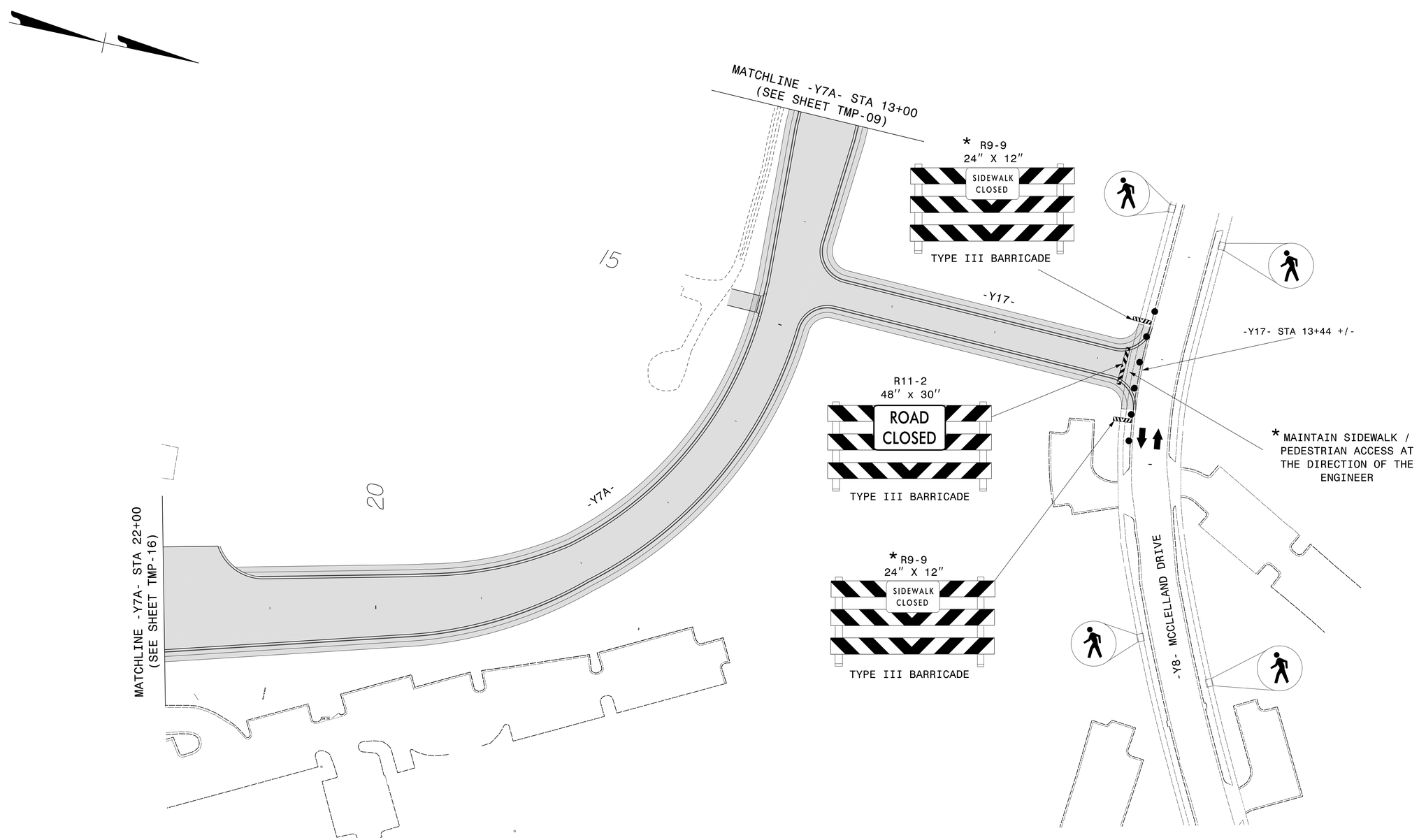
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_I6.dgn
WILL2054 AT DD5290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-17



APPROVED: DocuSigned by: BE5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE I DETAIL

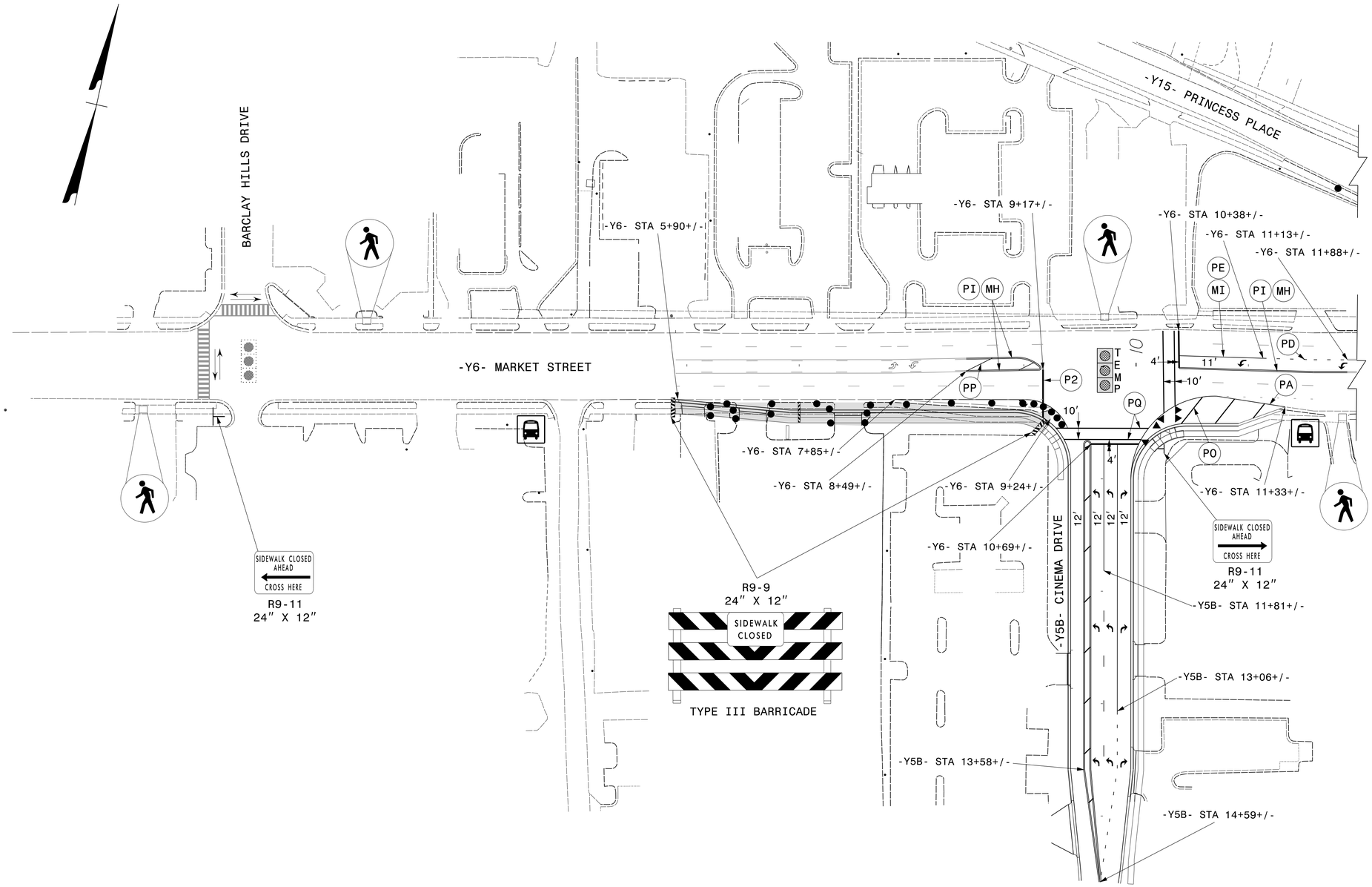
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_17.dgn
WILE2054 AT DUS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-18



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

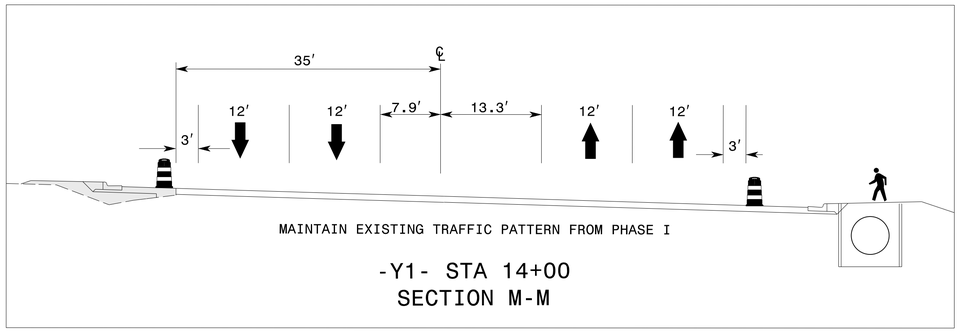
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

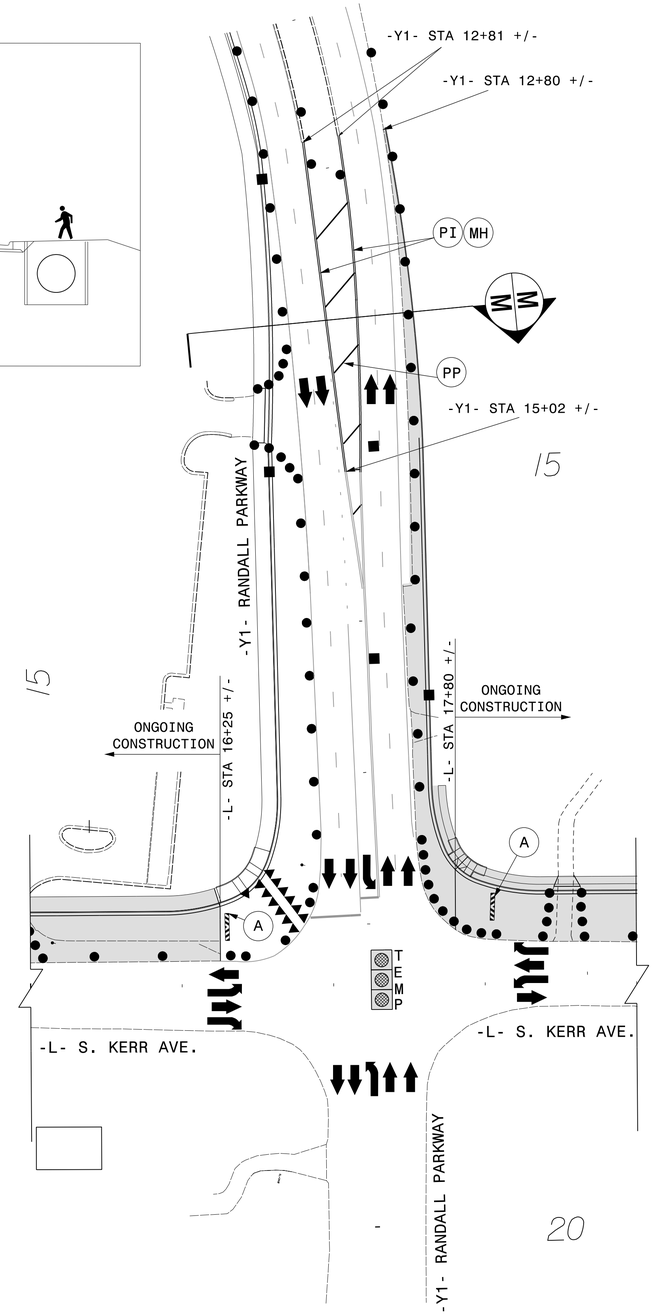
PHASE II DETAIL

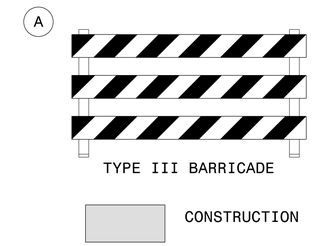
09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_18.dgn
WILL2054 AT DUSZ90140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-19







APPROVED: DocuSigned by: DATE: 7/9/2015
BE5B7B80A2A2466...

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_19.dgn
WILE2054 AT DOS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-20

1

W11-2
48" x 48"

W16-7p
30" x 18"

W11-2 & W16-7P SIGNS SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND

2

M4-5 24" X 12"	TO	TO	M4-5 24" X 12"
M3-3 24" X 12"	SOUTH	NORTH	M3-1 24" X 12"
M4-3 24" X 12"	BUSINESS	BUSINESS	M4-3 24" X 12"
M1-4 24" X 24"	17	17	M1-4 24" X 24"
M6-1 L 21" X 15"	←	↑	M6-3 21" X 15"

3

M4-5 24" X 12"	TO	TO	M4-5 24" X 12"
M3-3 24" X 12"	SOUTH	NORTH	M3-1 24" X 12"
M4-3 24" X 12"	BUSINESS	BUSINESS	M4-3 24" X 12"
M1-4 24" X 24"	17	17	M1-4 24" X 24"
M5-1 21" X 15"	←	↑	M6-3 21" X 15"

4

TYPE III BARRICADE

5

R9-11a
24" X 12"
SIDEWALK CLOSED
CROSS HERE

TYPE III BARRICADE

MESSAGES FOR CMS #1

NO LEFT TURN AT MARKET	BEGINING MM/DD

1 WEEK PRIOR TO PHASE II CLOSURE OF LEFT TURN ONTO US 17 BUSINESS (MARKET STREET) FROM NB KERR AVENUE

NO LEFT TURN AT MARKET	FOLLOW US17 BUS SIGNS

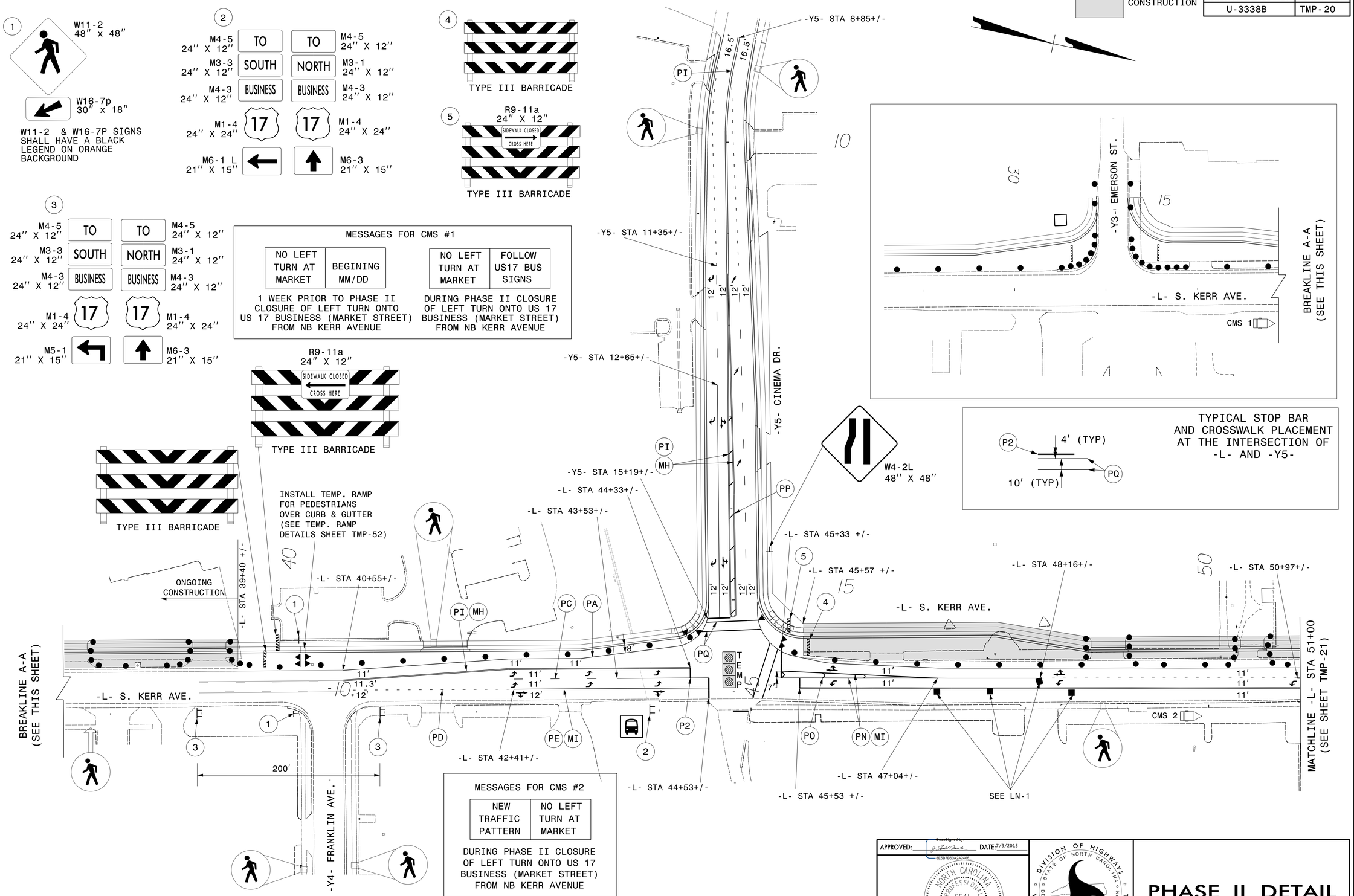
DURING PHASE II CLOSURE OF LEFT TURN ONTO US 17 BUSINESS (MARKET STREET) FROM NB KERR AVENUE

R9-11a
24" X 12"
SIDEWALK CLOSED
CROSS HERE

TYPE III BARRICADE

TYPE III BARRICADE

INSTALL TEMP. RAMP FOR PEDESTRIANS OVER CURB & GUTTER (SEE TEMP. RAMP DETAILS SHEET TMP-52)



TYPICAL STOP BAR AND CROSSWALK PLACEMENT AT THE INTERSECTION OF -L- AND -Y5-

MESSAGES FOR CMS #2

NEW TRAFFIC PATTERN	NO LEFT TURN AT MARKET

DURING PHASE II CLOSURE OF LEFT TURN ONTO US 17 BUSINESS (MARKET STREET) FROM NB KERR AVENUE

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2460... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_20.dgn
WILLE2054 AT DUS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-21

CONSTRUCTION

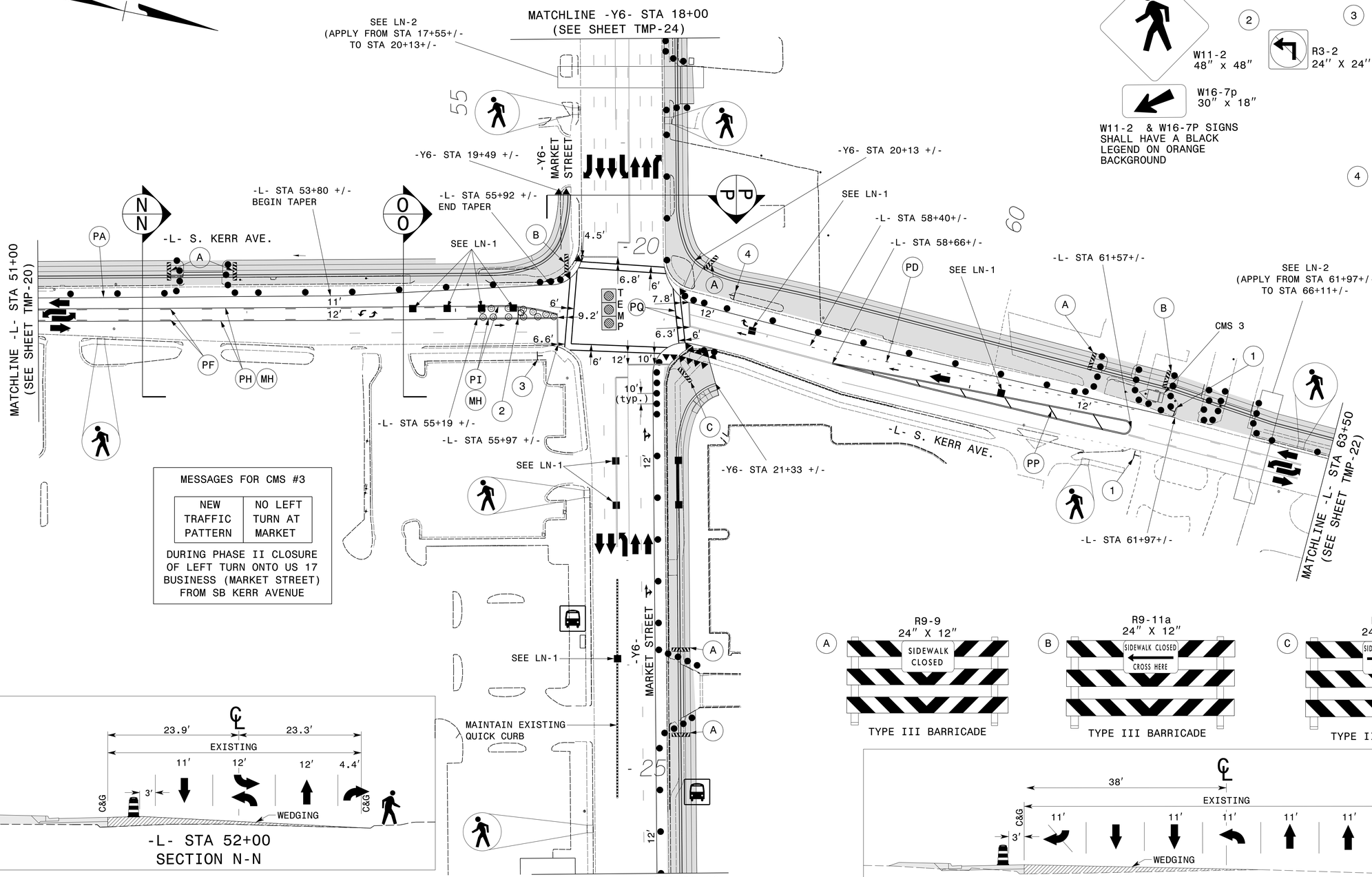
1 — W11-2 48″ x 48″; W16-7p 30″ x 18″

W11-2 & W16-7P SIGNS SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND

2 — R3-2 24″ X 24″

3 — NORTH M3-1 24″ X 12″; BUSINESS M4-3 24″ X 12″; 17 M1-4 24″ X 24″; M6-1 R 21″ X 15″

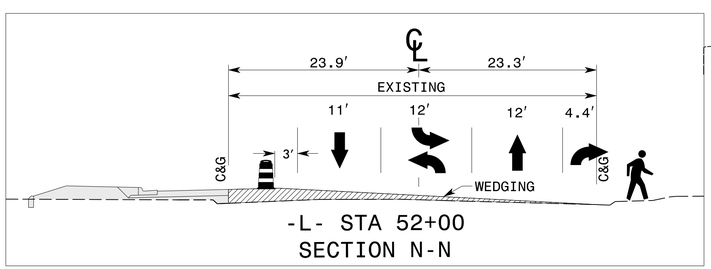
4 — SOUTH M3-3 24″ X 12″; BUSINESS M4-3 24″ X 12″; 17 M1-4 24″ X 24″; M6-1 R 21″ X 15″



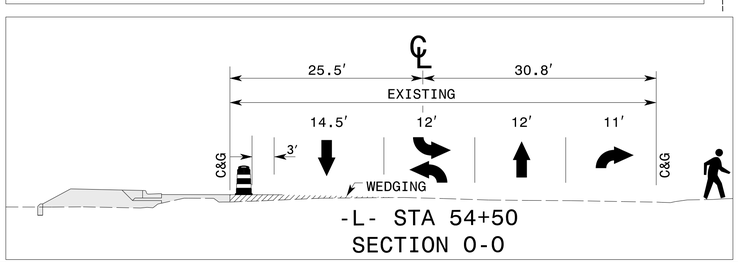
MESSAGES FOR CMS #3

NEW TRAFFIC PATTERN	NO LEFT TURN AT MARKET

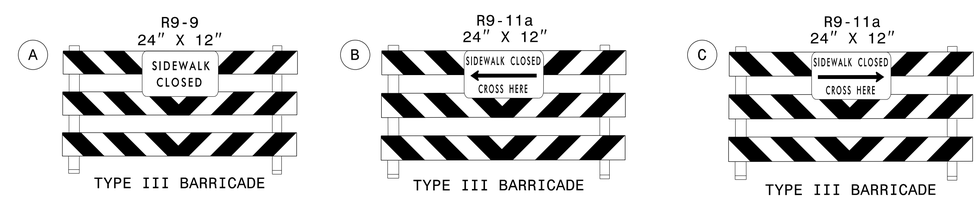
DURING PHASE II CLOSURE OF LEFT TURN ONTO US 17 BUSINESS (MARKET STREET) FROM SB KERR AVENUE

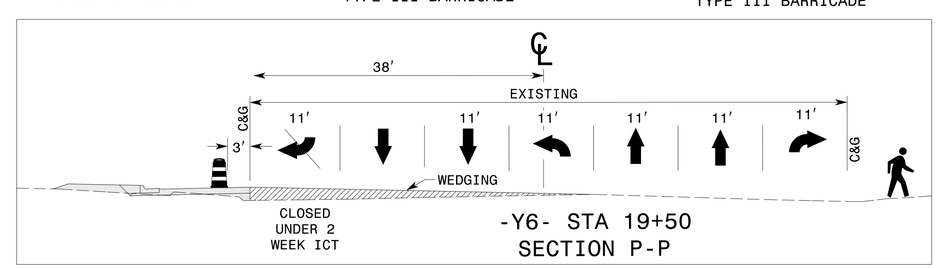


-L- STA 52+00
SECTION N-N



-L- STA 54+50
SECTION O-O





-Y6- STA 19+50
SECTION P-P

APPROVED: DocuSigned by: BE5B7B60A2A2486... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

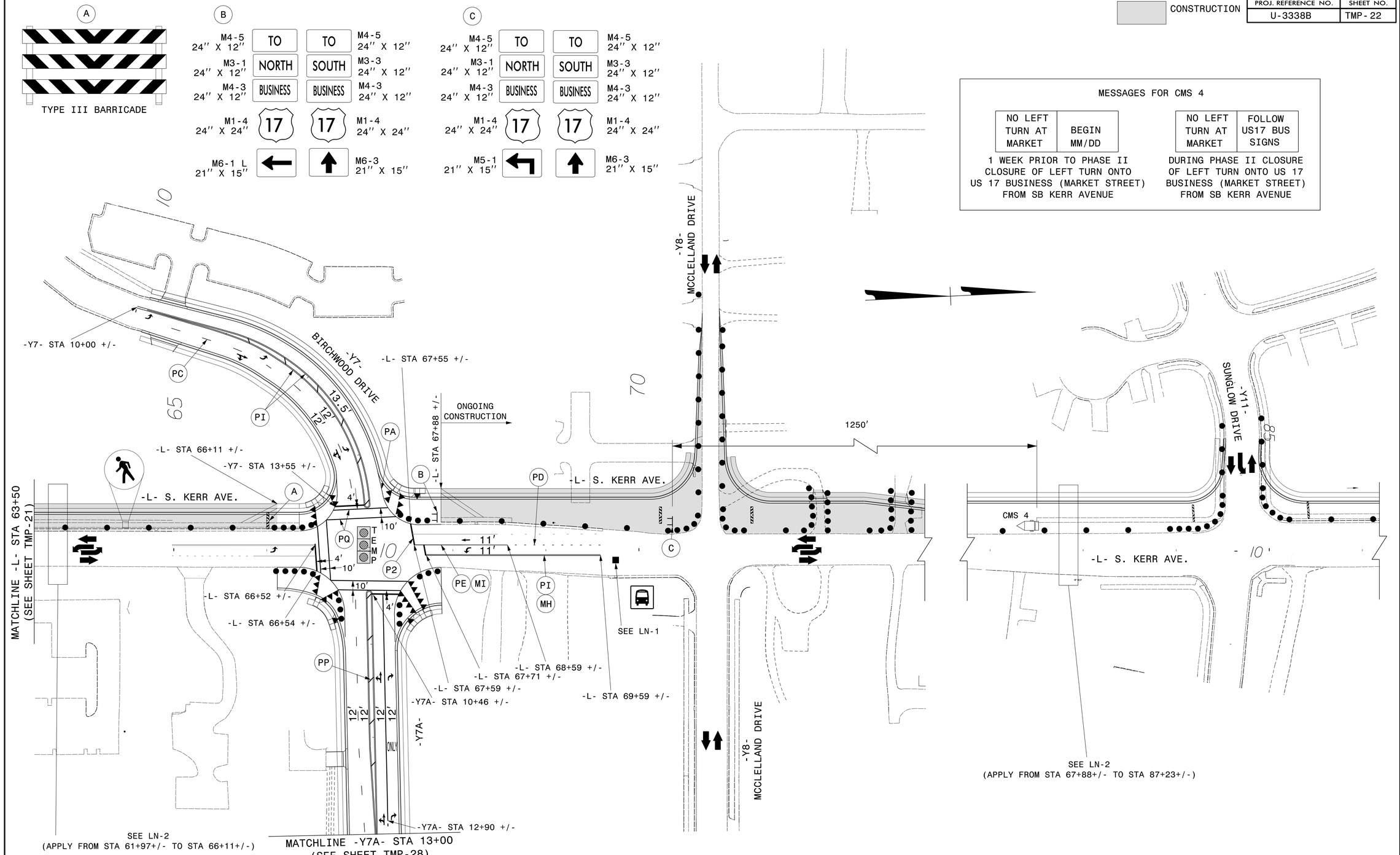
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
W:\Transportation\Traffic\Curr\000036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_21.dgn
WILLE2054 AT DGS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-22



APPROVED: DocuSigned by: 8E5B7B90A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

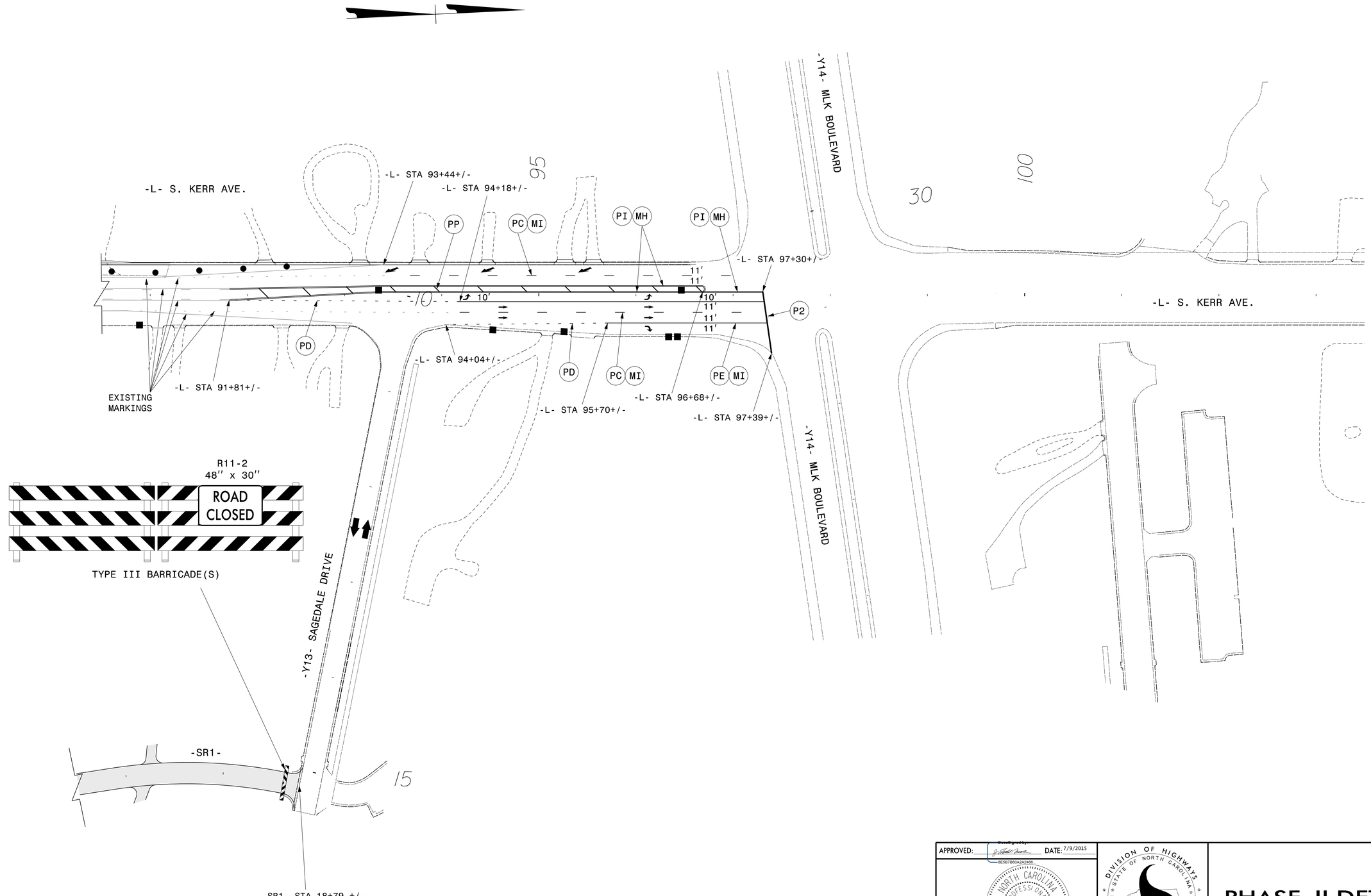
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_22.dgn
WILE2054 AT DUS2904D

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-23



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

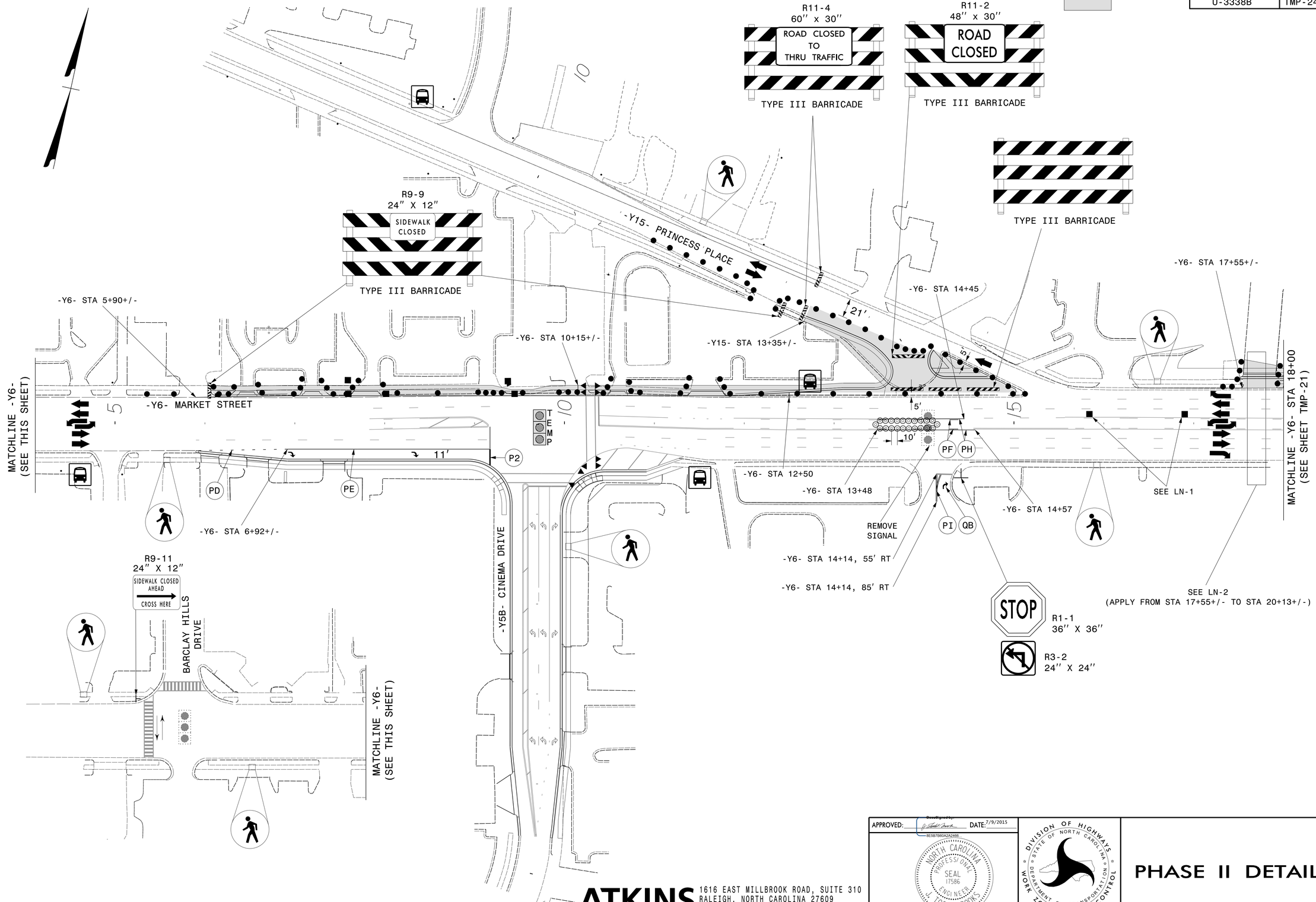
PHASE II DETAIL

09-JUL-2015 15:37
q:\projects\transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_23.dgn
WILEZOSK ATDUS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-24



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

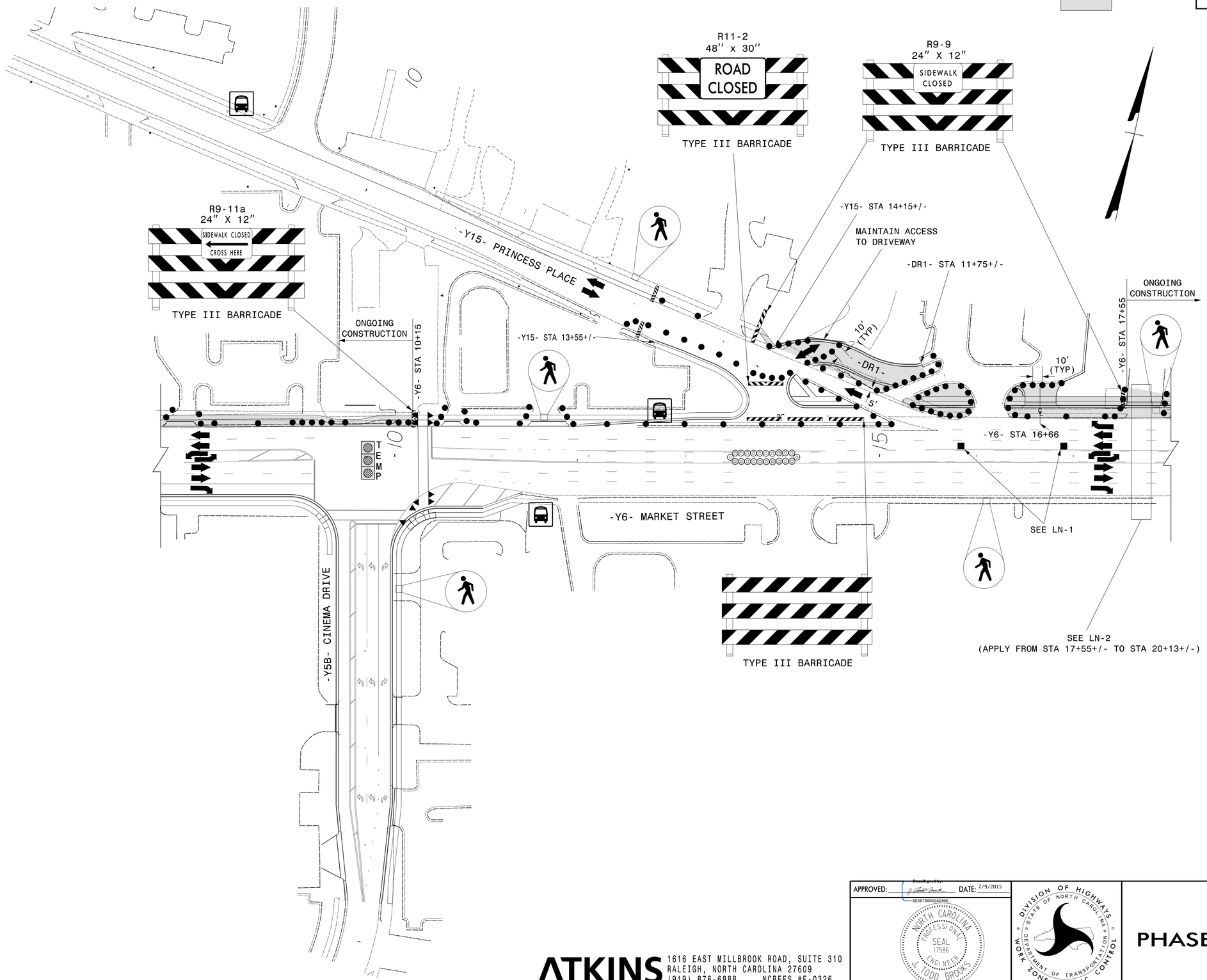
PHASE II DETAIL

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_24.dgn
WILL2054 AT DUS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-25



APPROVED: DocuSigned by: 8E5B7D60A2A2489... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_25.dgn
WILE2054 AT DLS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-26

1 R9-11a 24" X 12"

TYPE III BARRICADE

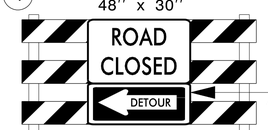
2 R9-11 24" X 12"

TYPE III BARRICADE

3 R11-2 48" x 30"

TYPE III BARRICADE

4 R11-2 48" x 30"



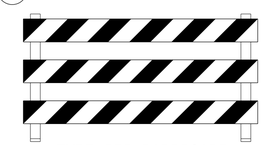
M4-10L 48" x 18"

TYPE III BARRICADE

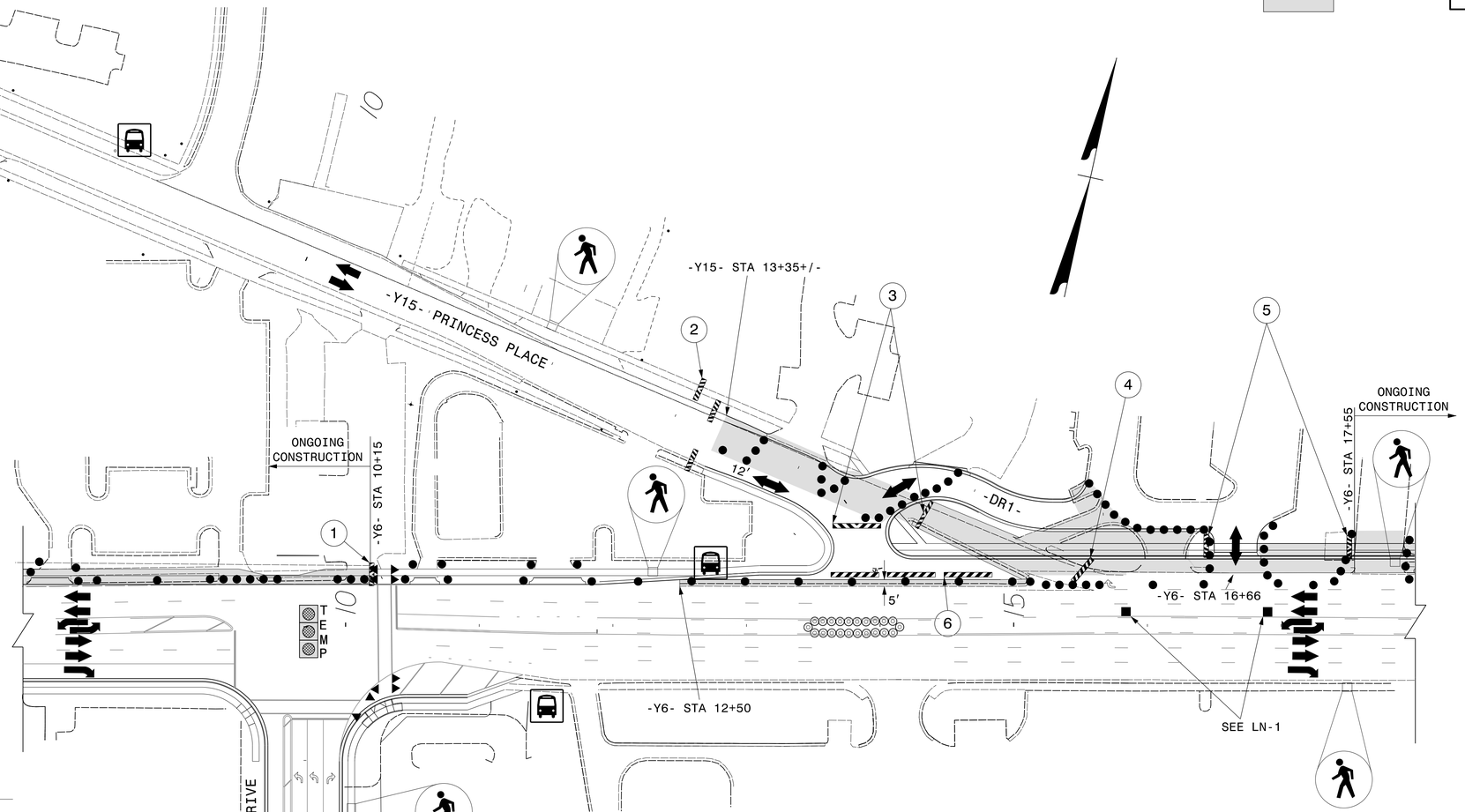
5 R9-9 24" X 12"

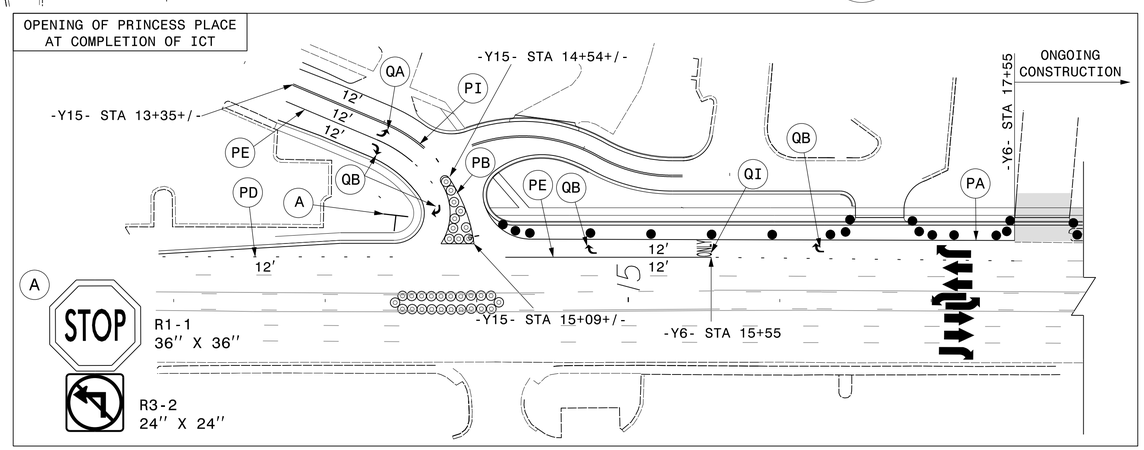
TYPE III BARRICADE

6



TYPE III BARRICADE





CLOSE WESTBOUND RIGHT TURN LANE ON -Y6- AND DETOUR TRAFFIC AS SHOWN ON TMP-51. CLOSE -Y15-. SEE RSD 1101.03 FOR NOTES ON ROAD CLOSURE.

THIS WORK TO BE DONE UNDER 14 DAY ICT

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

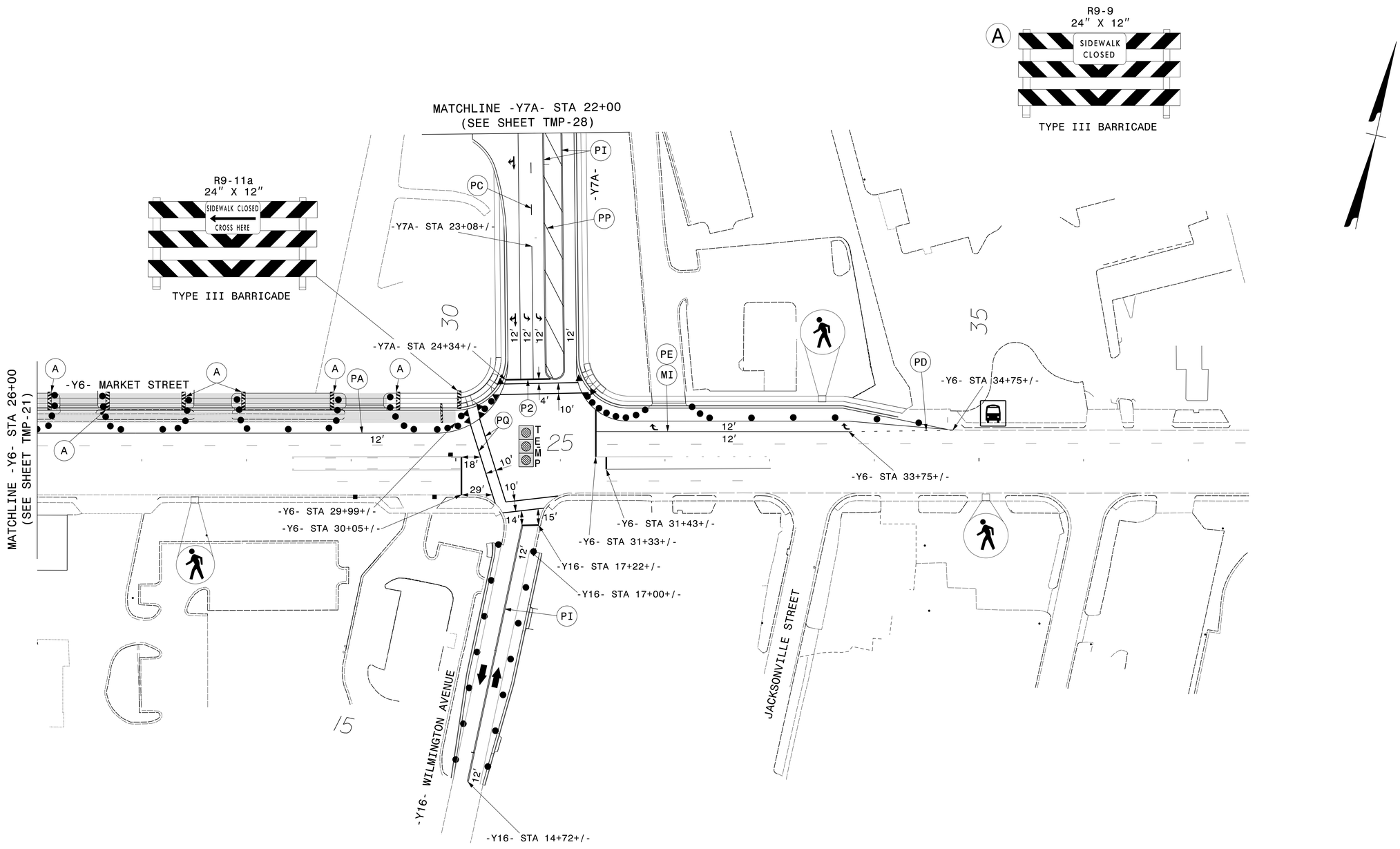
PHASE II DETAIL

09-JUL-2015 15:37
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_26.dgn
WILE2054 AT DUS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-27



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B80A2A2486... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

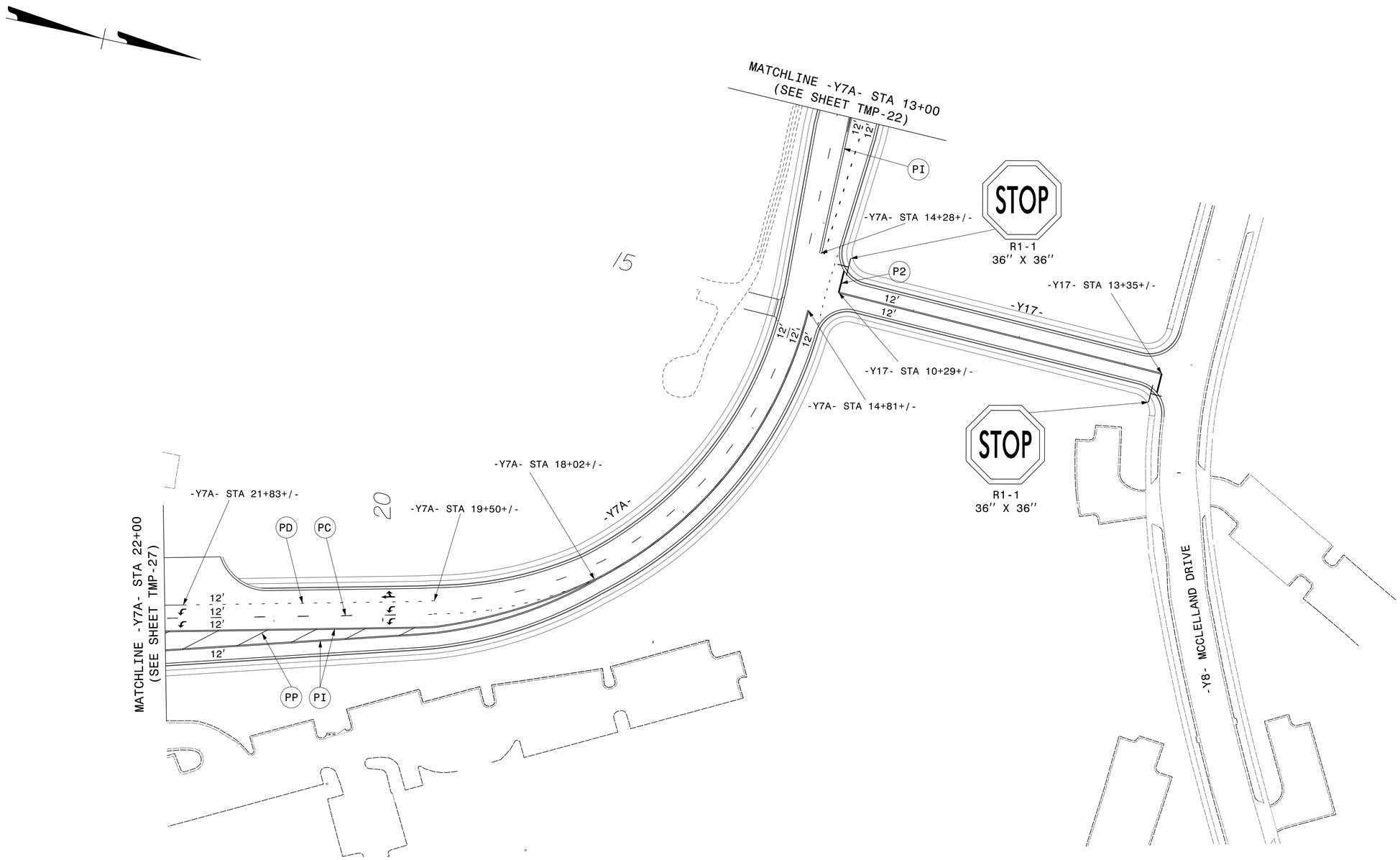
PHASE II DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_27.dgn
WILE2054 AT DUS2904D

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-28



APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_28.dgn
WILE2054 AT DU5290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-29

CONSTRUCTION

A — TYPE III BARRICADE

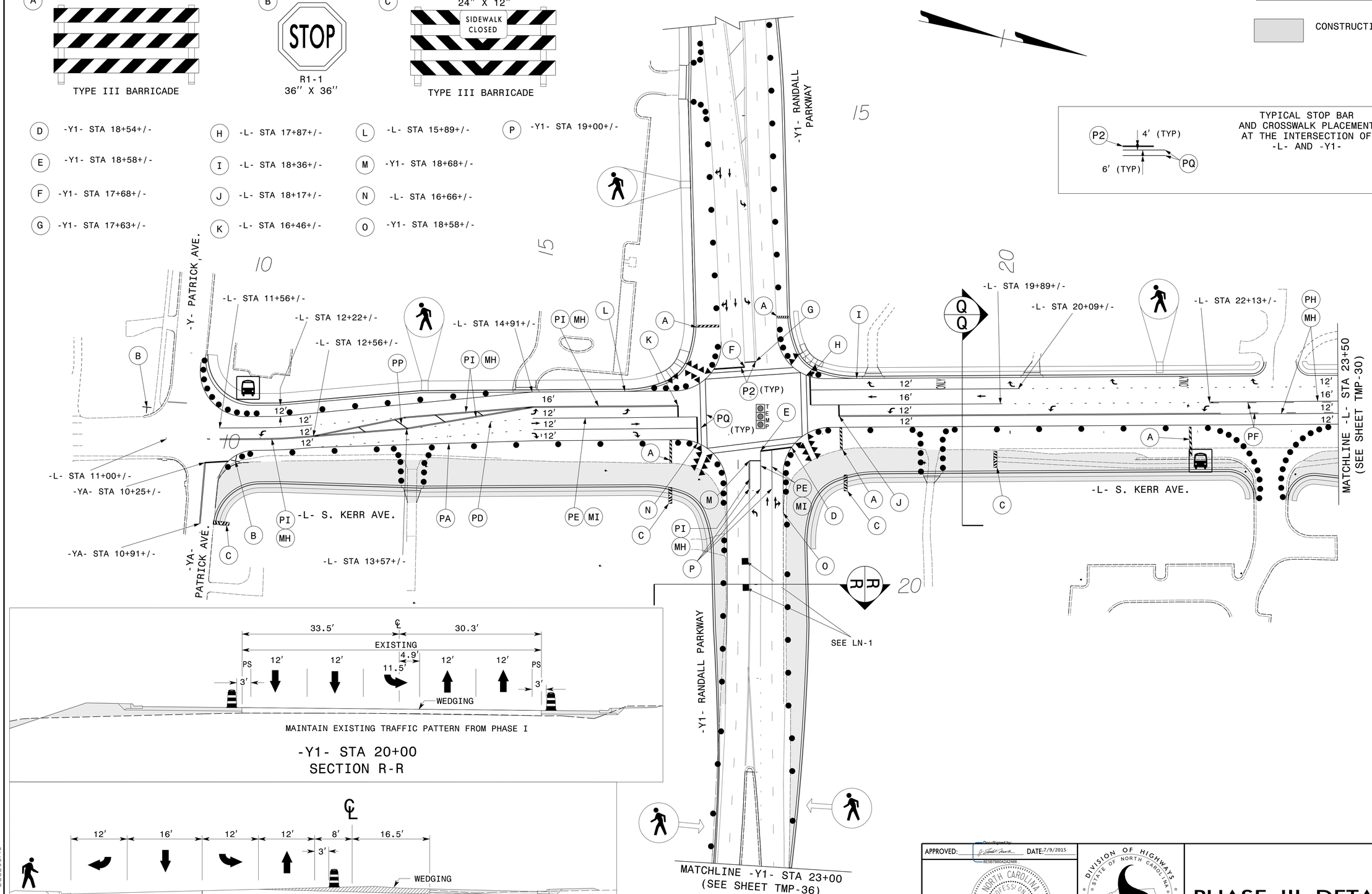
B — STOP, R1-1, 36" X 36"

C — R9-9, 24" X 12", SIDEWALK CLOSED — TYPE III BARRICADE

D -Y1- STA 18+54+/-
E -Y1- STA 18+58+/-
F -Y1- STA 17+68+/-
G -Y1- STA 17+63+/-
H -L- STA 17+87+/-
I -L- STA 18+36+/-
J -L- STA 18+17+/-
K -L- STA 16+46+/-
L -L- STA 15+89+/-
M -Y1- STA 18+68+/-
N -L- STA 16+66+/-
O -Y1- STA 18+58+/-
P -Y1- STA 19+00+/-

TYPICAL STOP BAR AND CROSSWALK PLACEMENT AT THE INTERSECTION OF -L- AND -Y1-

P2 — 4' (TYP); 6' (TYP); PQ



MAINTAIN EXISTING TRAFFIC PATTERN FROM PHASE I

-Y1- STA 20+00
SECTION R-R

-L- STA 19+50
SECTION Q-Q

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

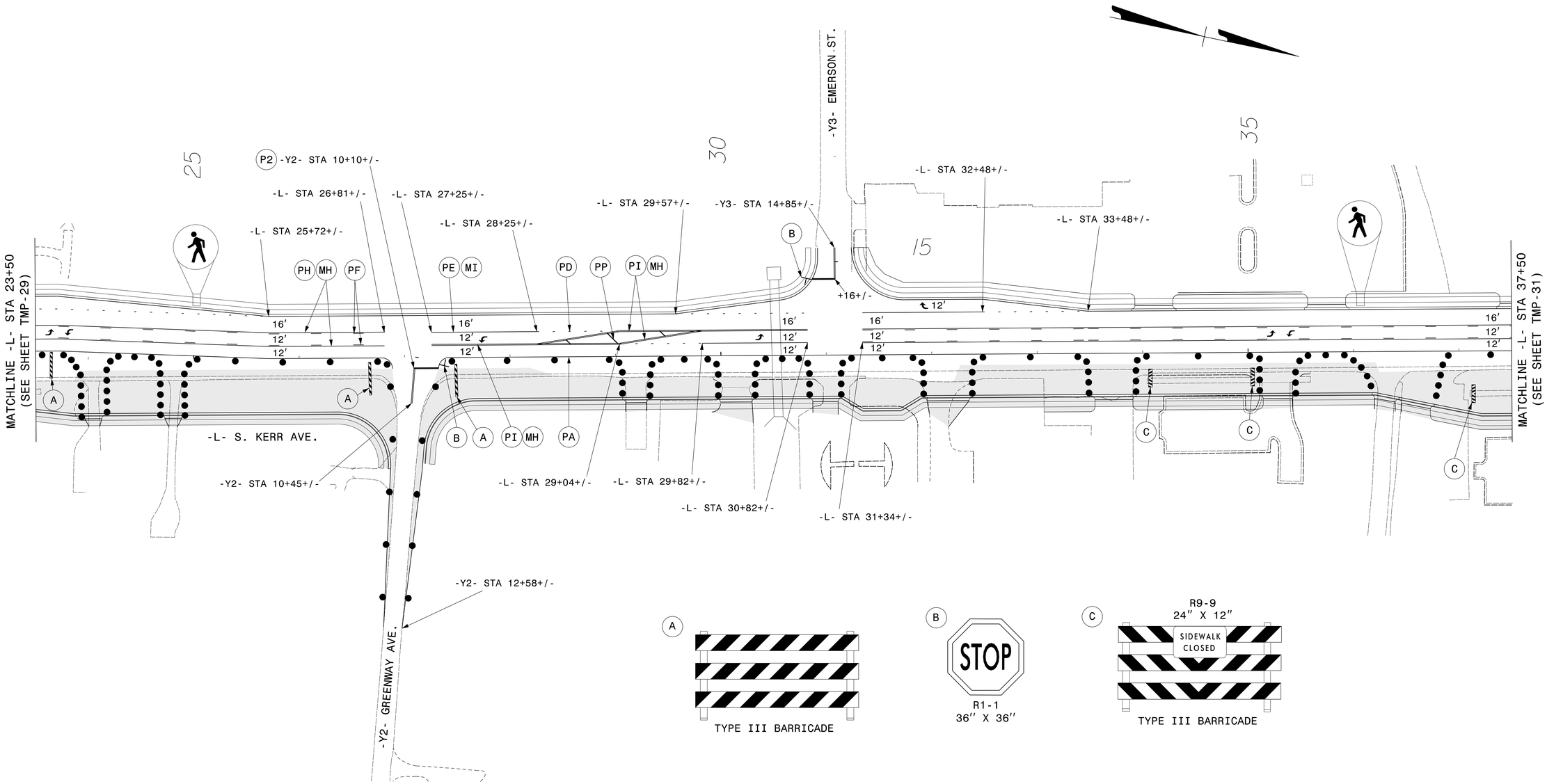
PHASE III DETAIL

09-JUL-2015 15:38
q:\projects\atkins\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_29.dgn
WILE2051 AT DL5290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-30



A

TYPE III BARRICADE

B

R1-1
36″ X 36″

C

R9-9
24″ X 12″

TYPE III BARRICADE

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

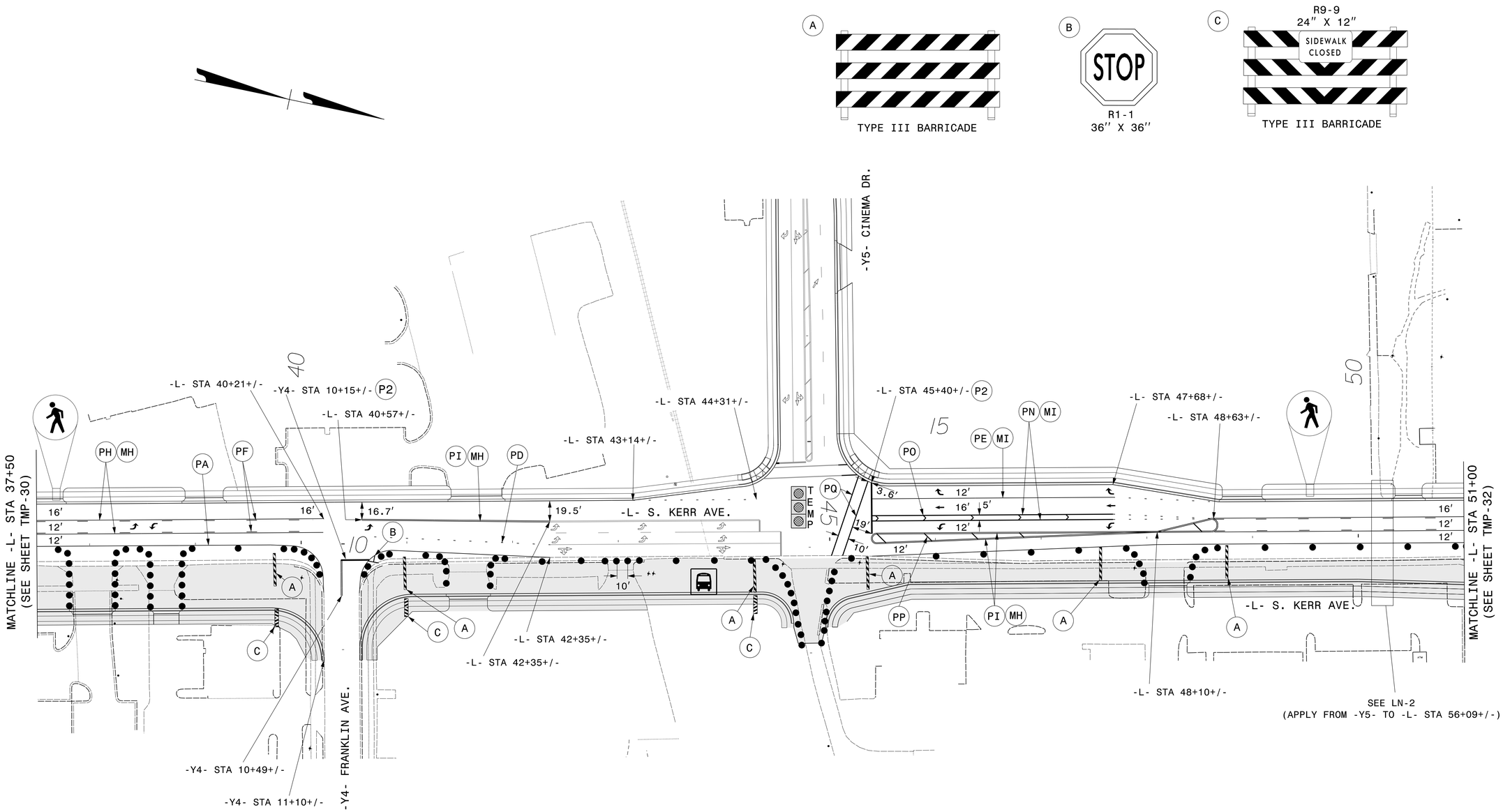
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_30.dgn
WILE2051 AT DLS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-31



APPROVED: DocuSigned by: BE5B7B60A2A246B... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

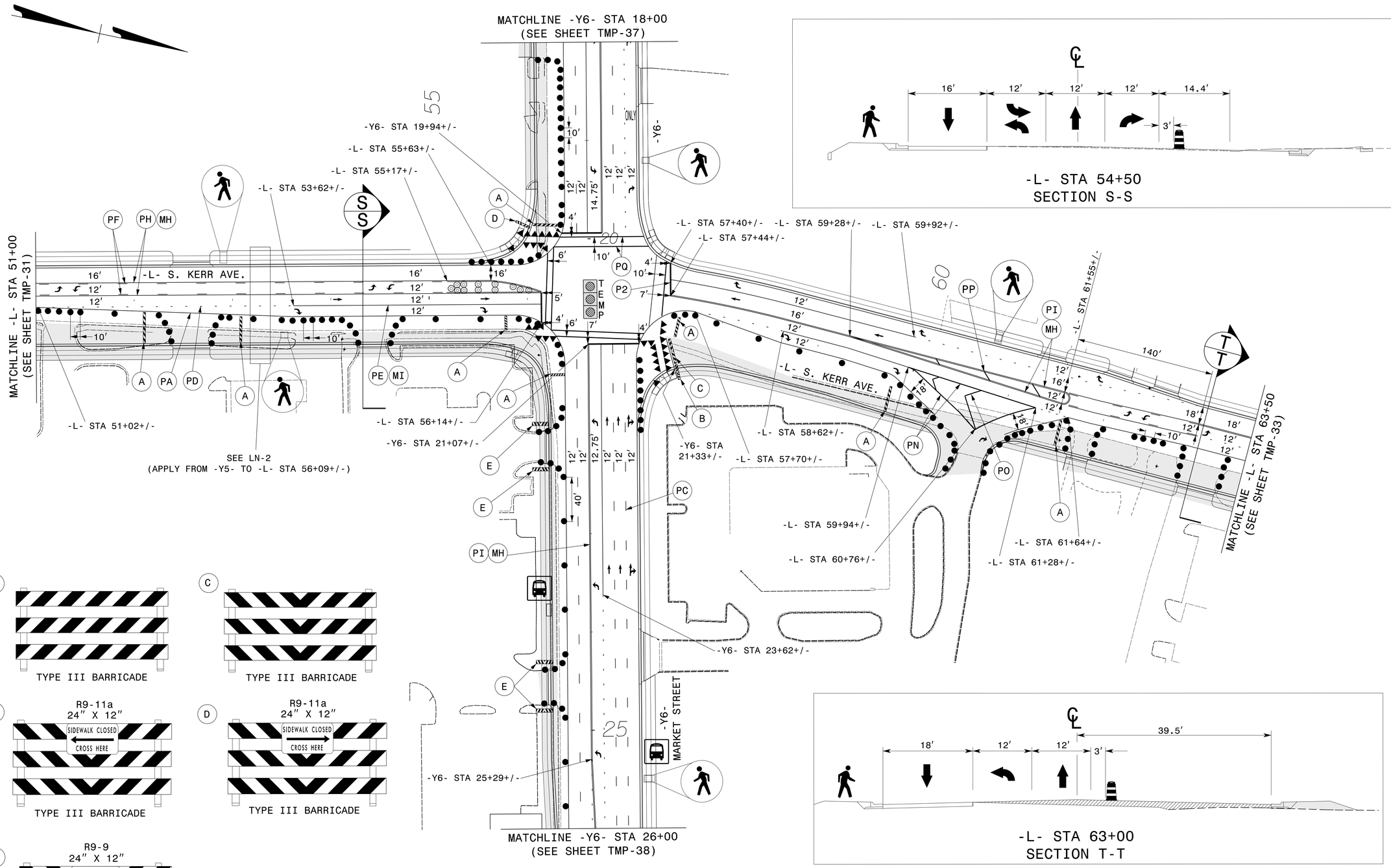
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

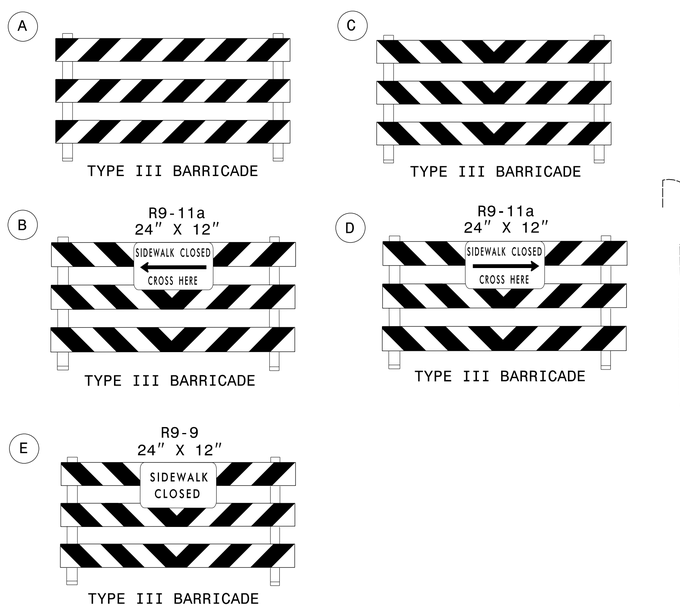
09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_3L.dgn
WILE2054 AT DUS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-32





ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: J. Todd Brooks 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

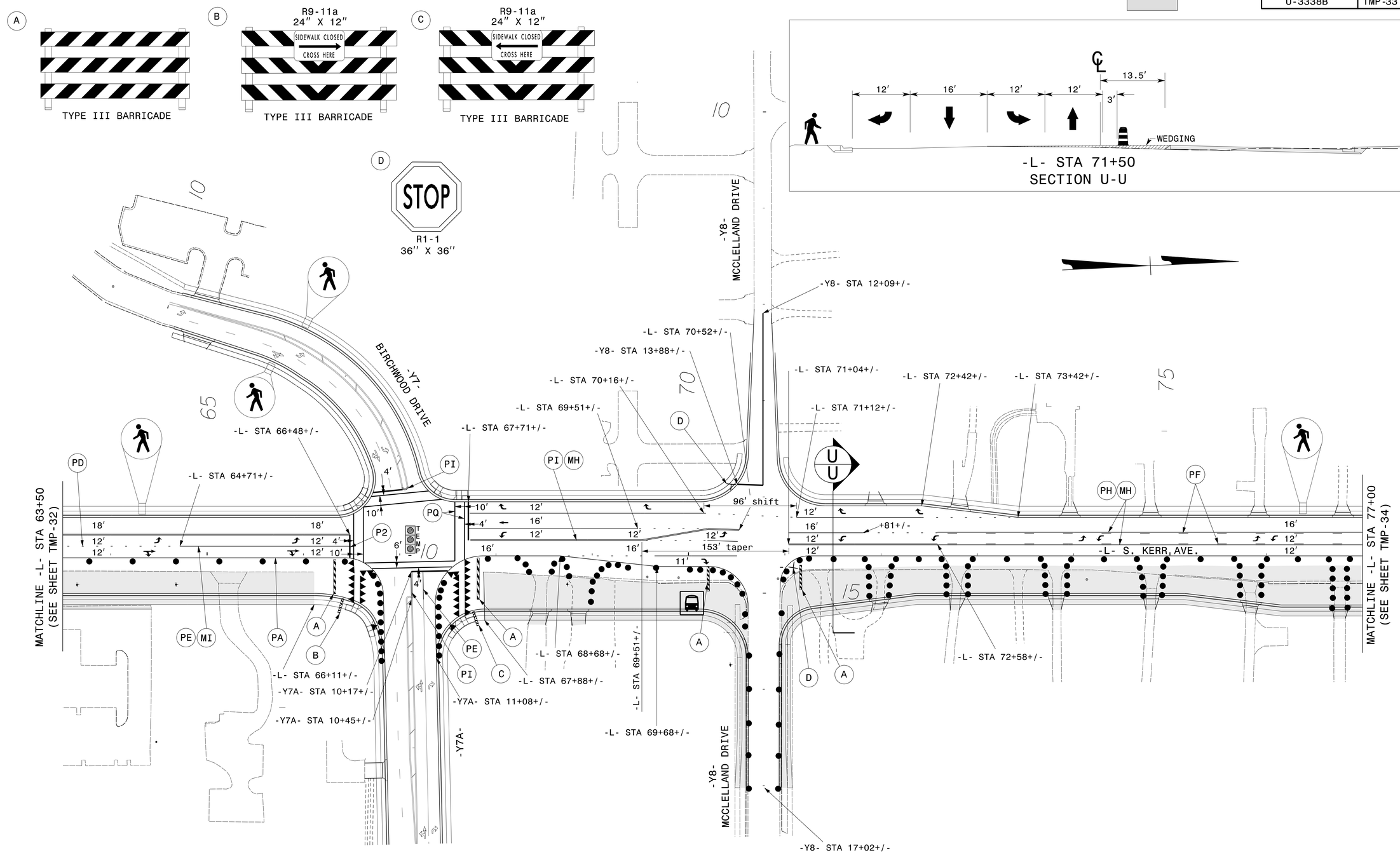
PHASE III DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_32.dgn
WLE2054 AT DU5290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-33



APPROVED: DocuSigned by: 8E5B7860A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

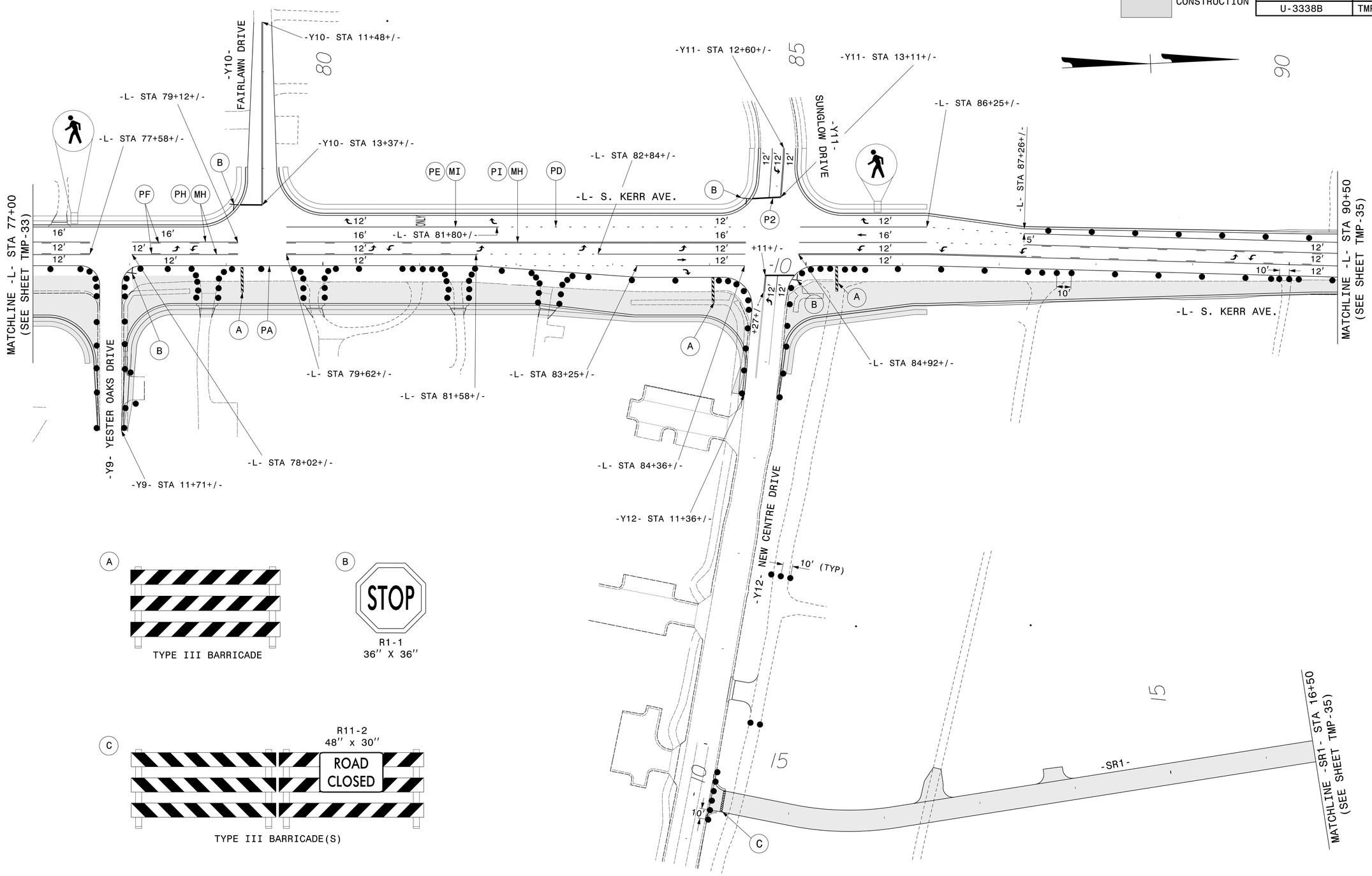
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

03-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U0036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_33.dgn
WILE2054 AT DUS290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-34



TYPE III BARRICADE

R1-1
36" X 36"

R11-2
48" x 30"

TYPE III BARRICADE(S)

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

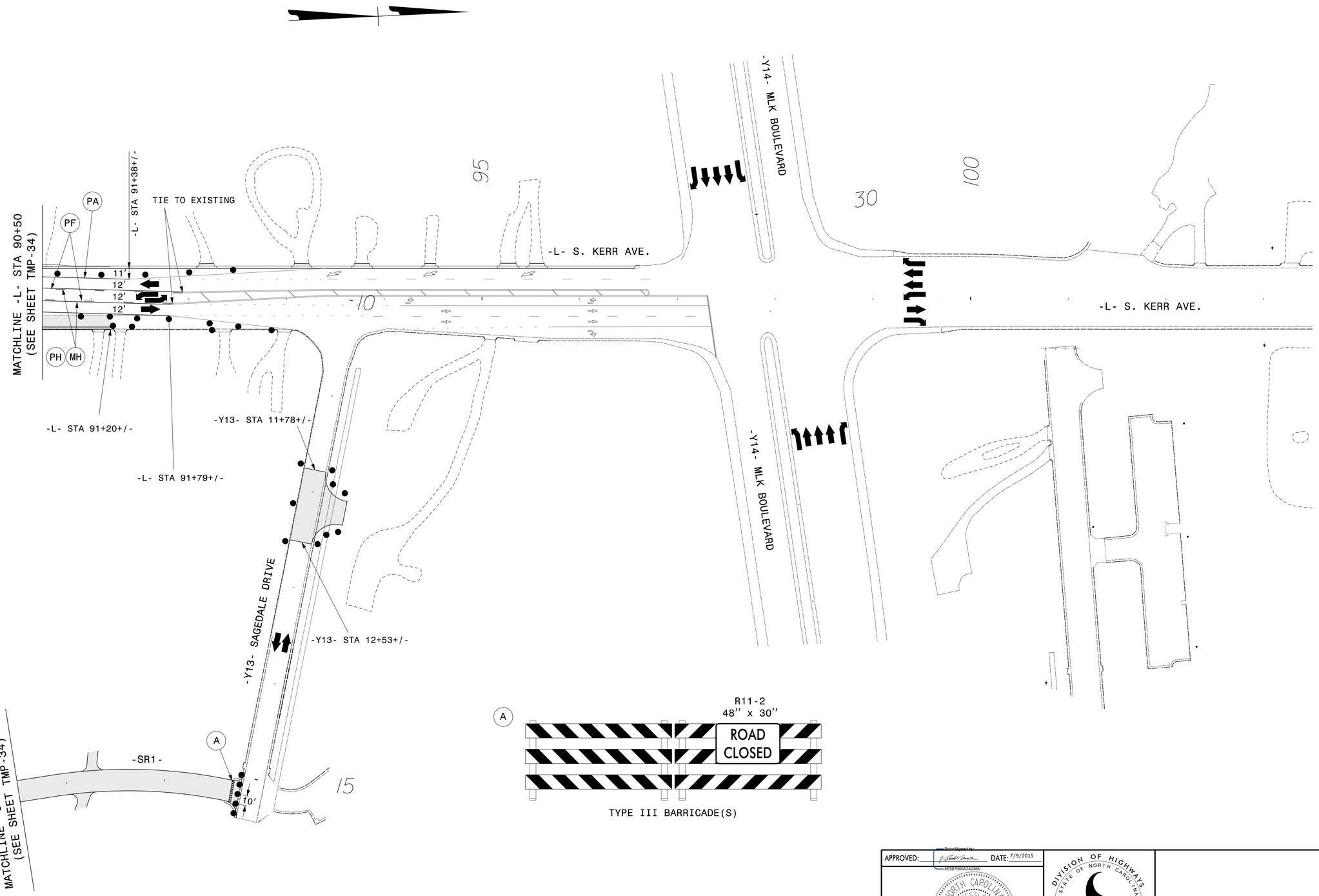
PHASE III DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_34.dgn
WILZ054 AT DU5290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-35



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 9E5B7B60A2A246B... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

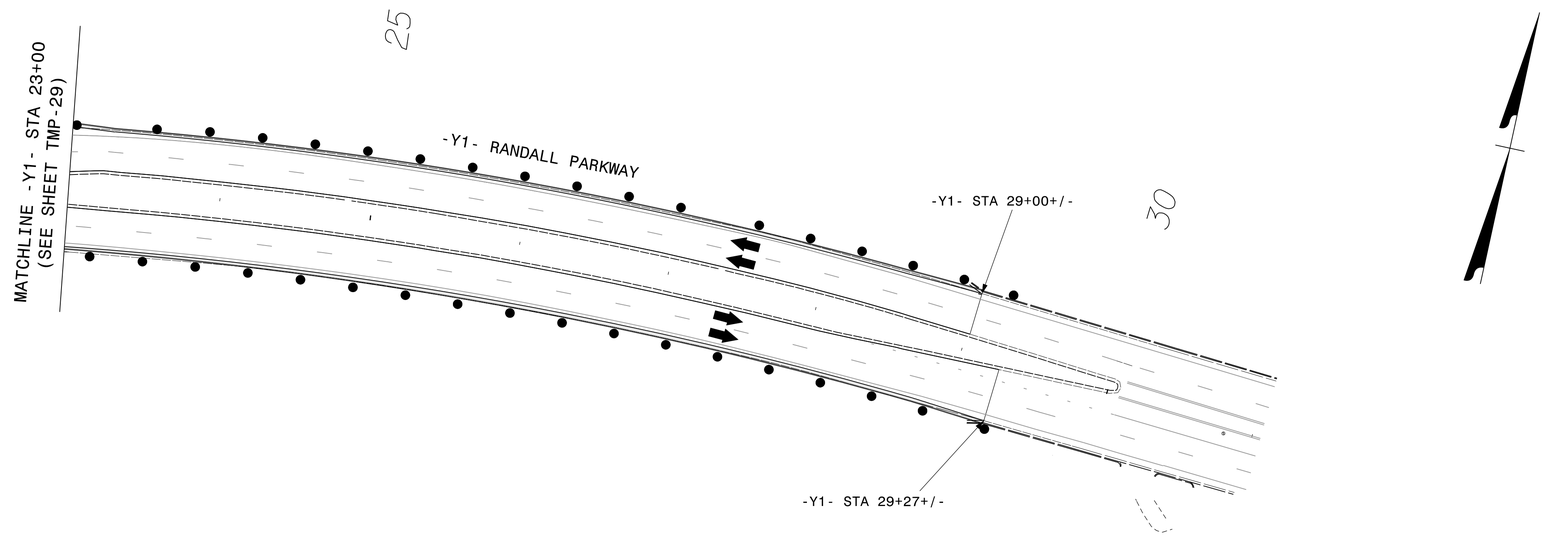
PHASE III DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_35.dgn
WILE2054 AT DUS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-36



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

09-JUL-2015 15:38
Q:\Corporation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_36.dgn
WILEZ054 AT D0529040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-37

CONSTRUCTION

A

TYPE III BARRICADE

B

R9-11
24" X 12"

TYPE III BARRICADE

C

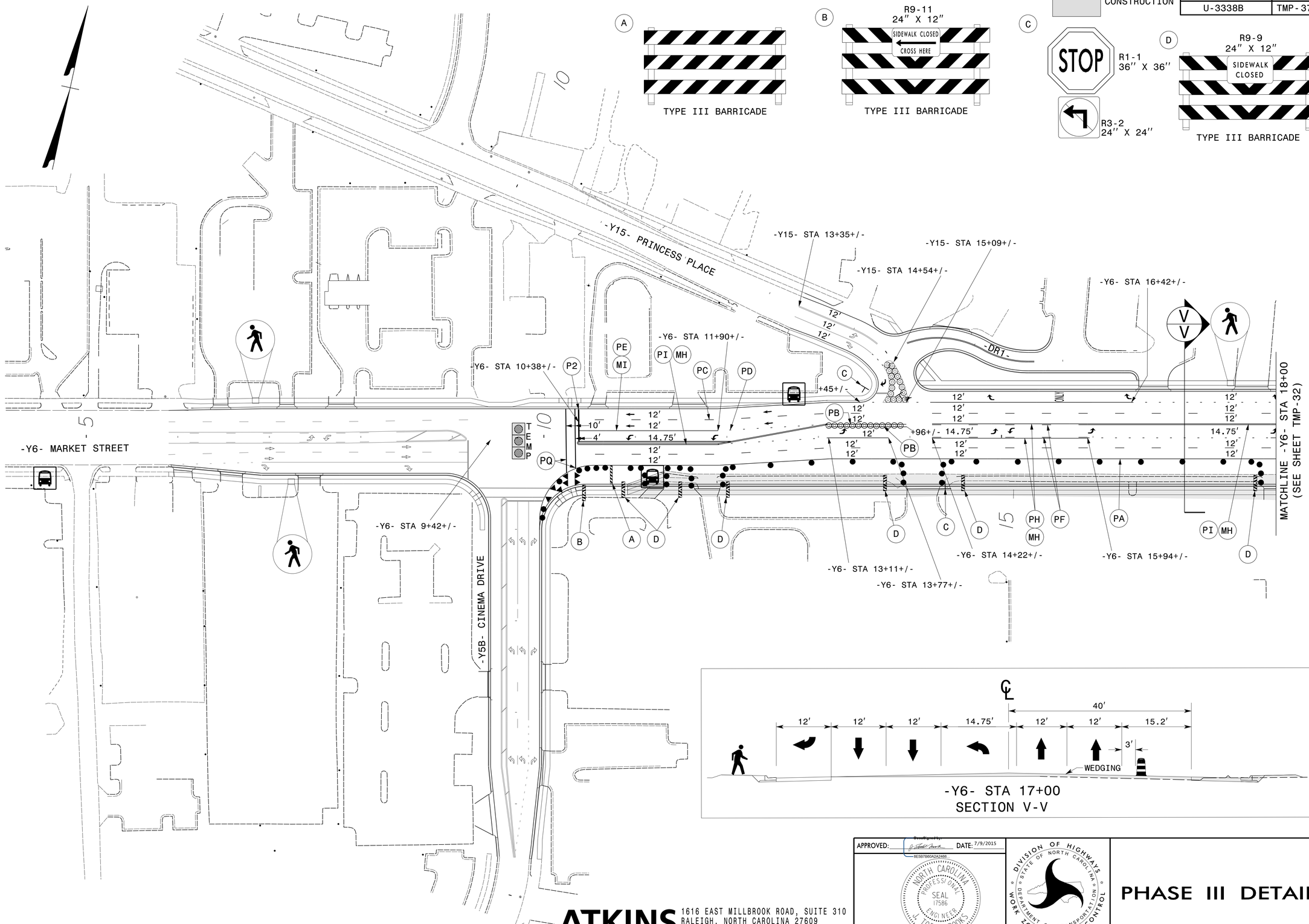
R1-1
36" X 36"

R3-2
24" X 24"

D

R9-9
24" X 12"

TYPE III BARRICADE



APPROVED: Developed by: DATE: 7/9/2015

BE5B7B60A2A2466...

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

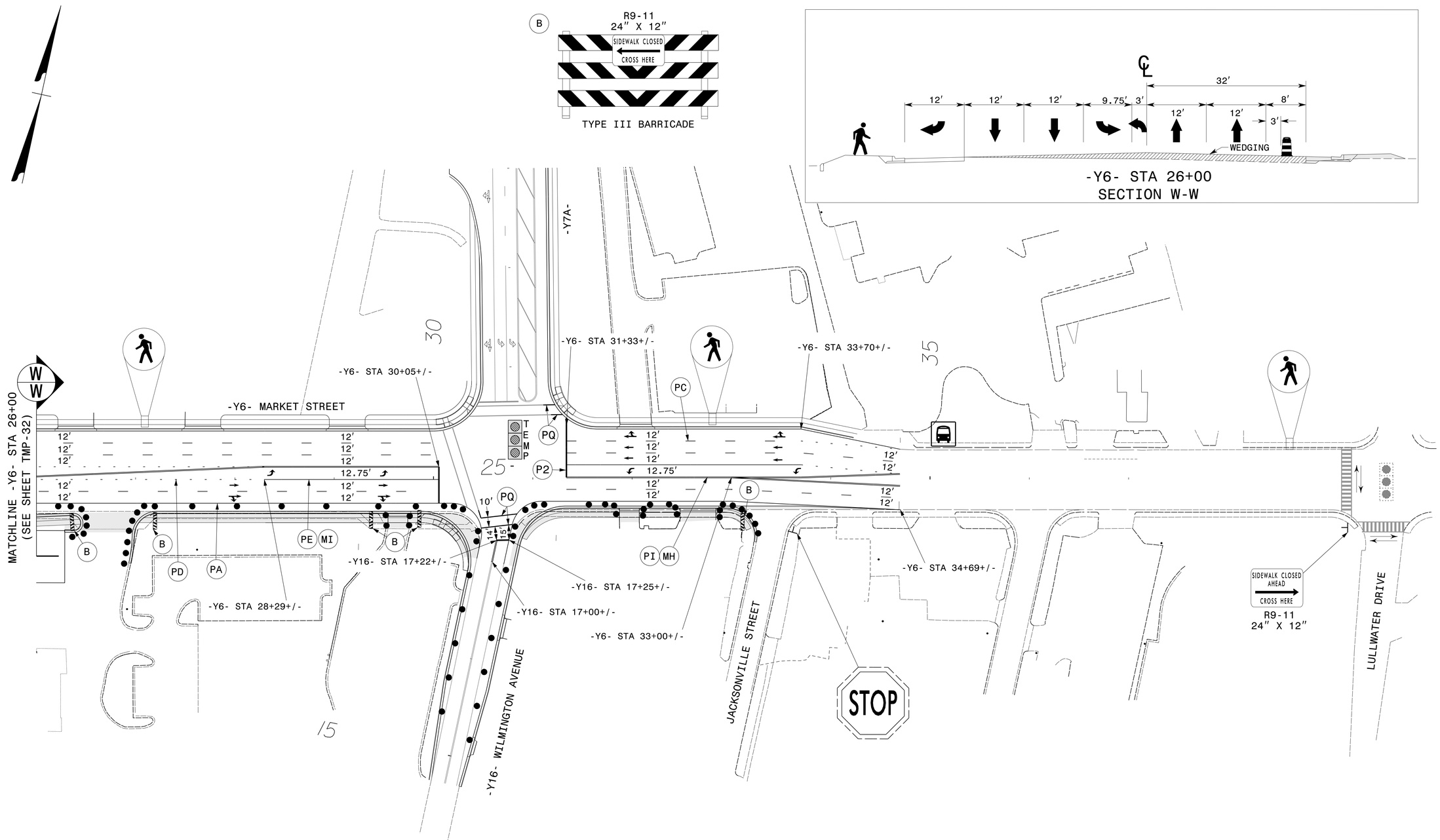
ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

03-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_37.dgn
WILE2054 AT DU5290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-38



APPROVED: DocuSigned by: J. Todd Brooks BE5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE III DETAIL

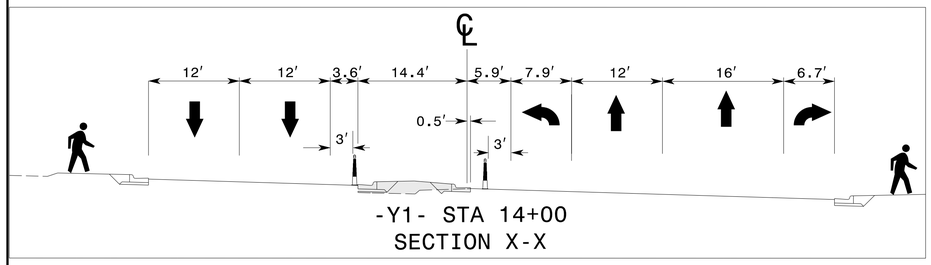
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_38.dgn
WILE2054 AT DUS2904D

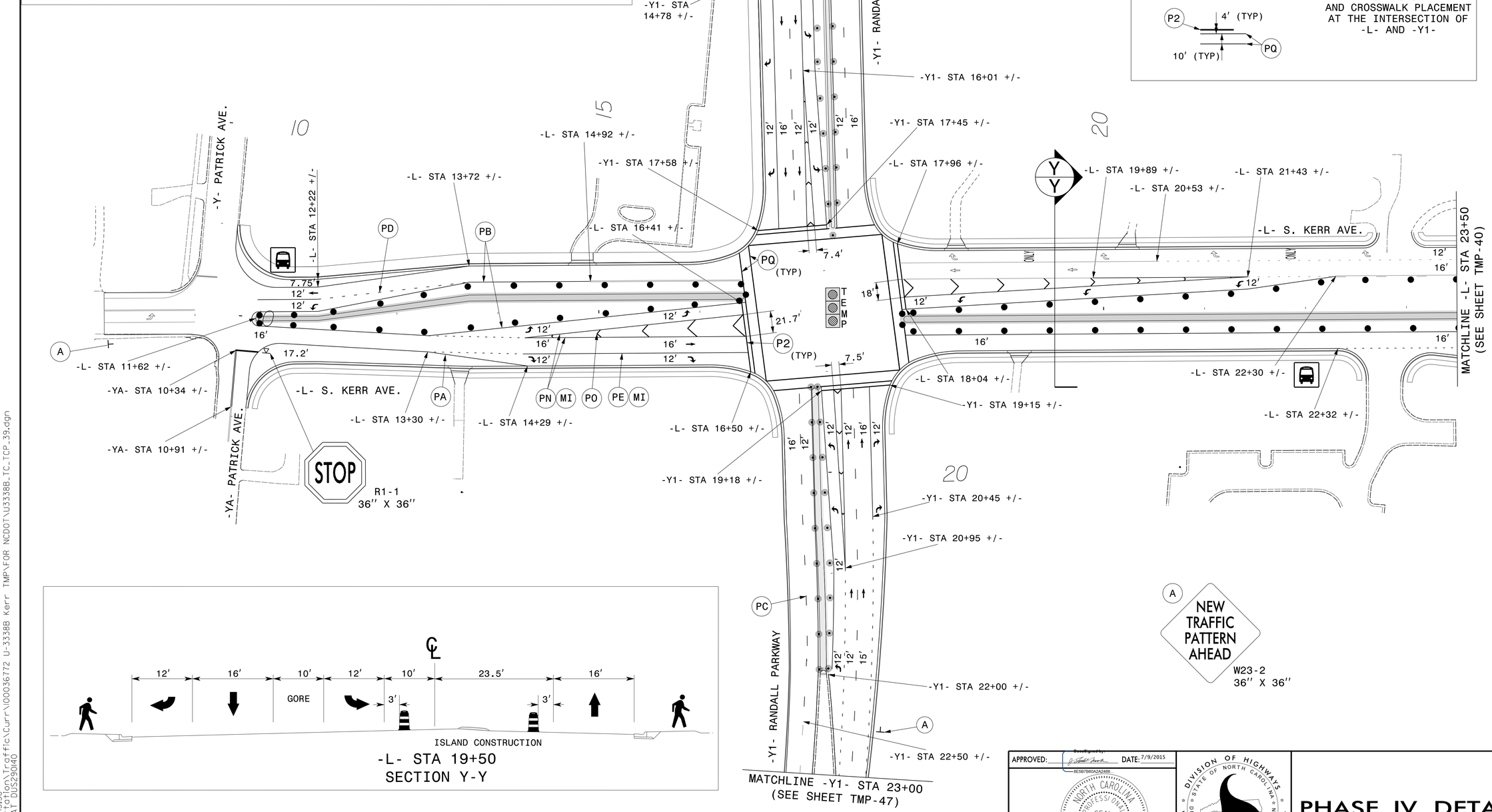
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-39



-Y1- STA 14+00
SECTION X-X



TYPICAL STOP BAR AND CROSSWALK PLACEMENT AT THE INTERSECTION OF -L- AND -Y1-

P2 — 4′ (TYP) — PQ — 10′ (TYP)

-L- STA 19+50
SECTION Y-Y

APPROVED: DocuSigned by: 9E5B7860A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

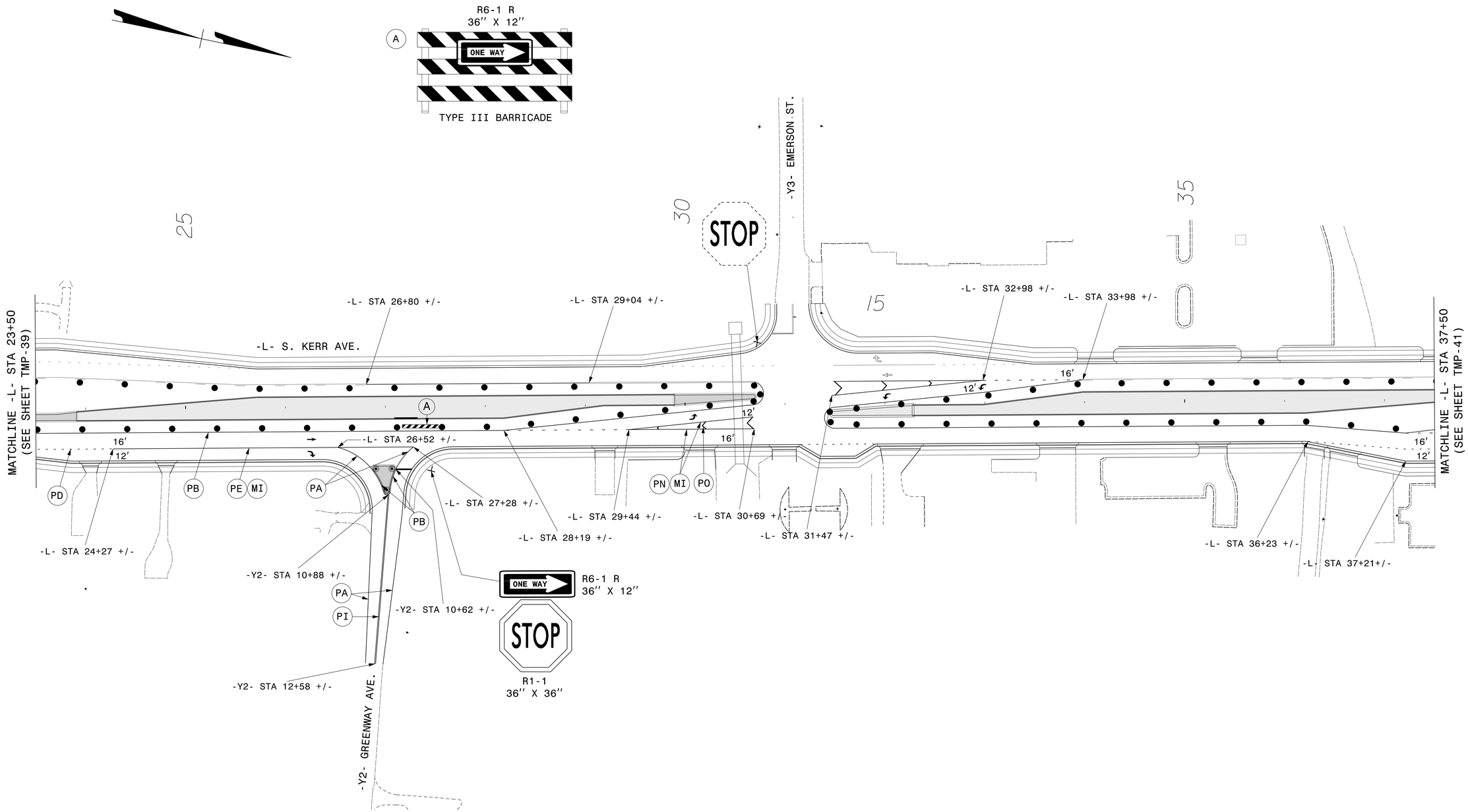
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
q:\Corporation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_39.dgn
WILE2051 AT DUS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-40



APPROVED: DocuSigned by: 9E5B7B90A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_40.dgn
WILE2051 AT DLS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-41

A

R6-1 R
36" X 12"

TYPE III BARRICADE

B

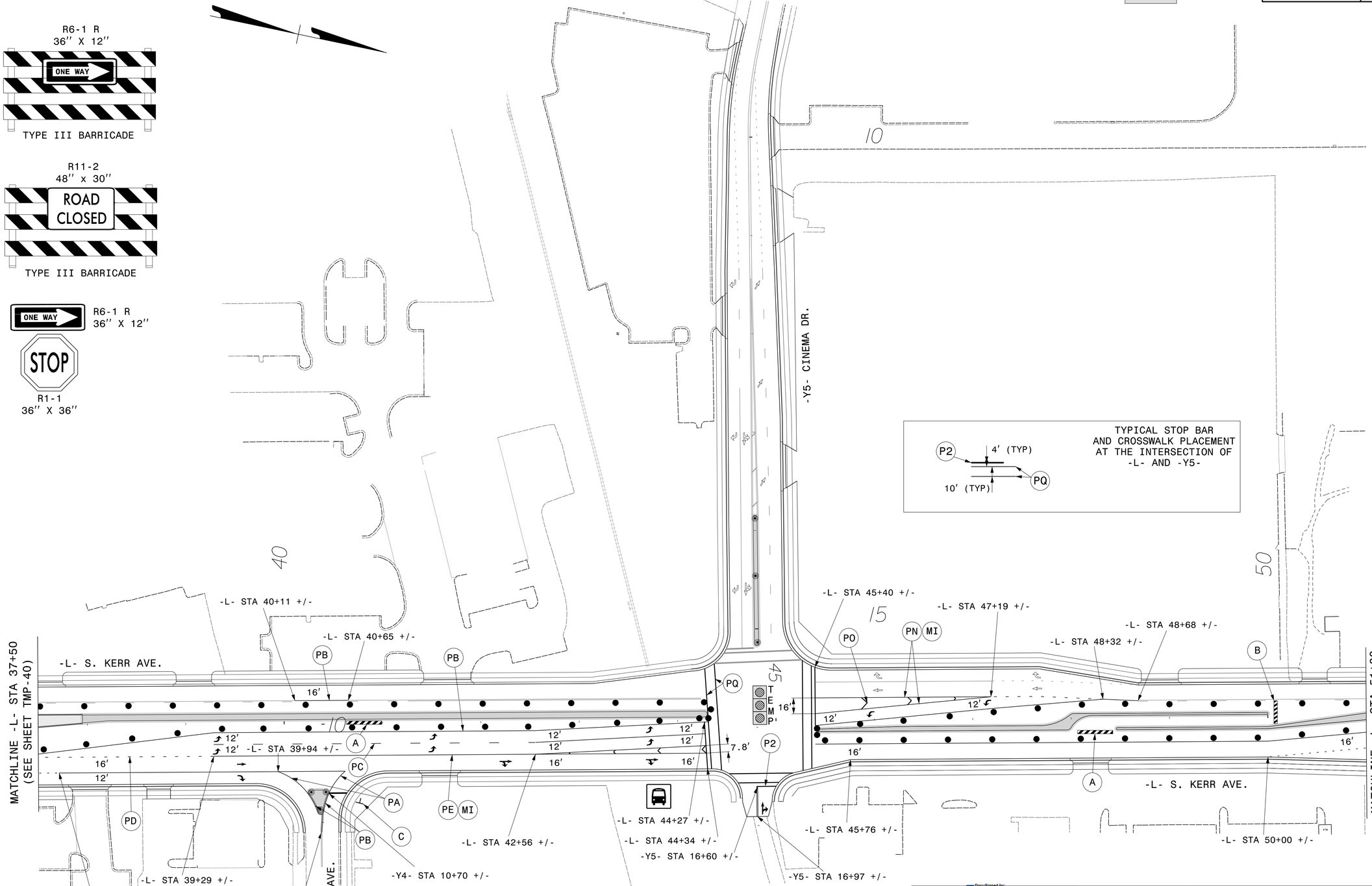
R11-2
48" x 30"

TYPE III BARRICADE

C

R6-1 R
36" X 12"

R1-1
36" X 36"



APPROVED: DocuSigned by: 8E5B7B6A3A2A4A6... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

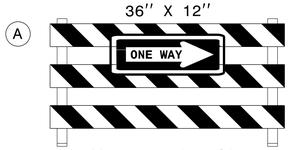
09-JUL-2015 15:38
O:\TP_Consultation\Traffic\Curr\0000367 72 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_4L.dgn
WILL2054 AT DOS290\40

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-42

CONSTRUCTION

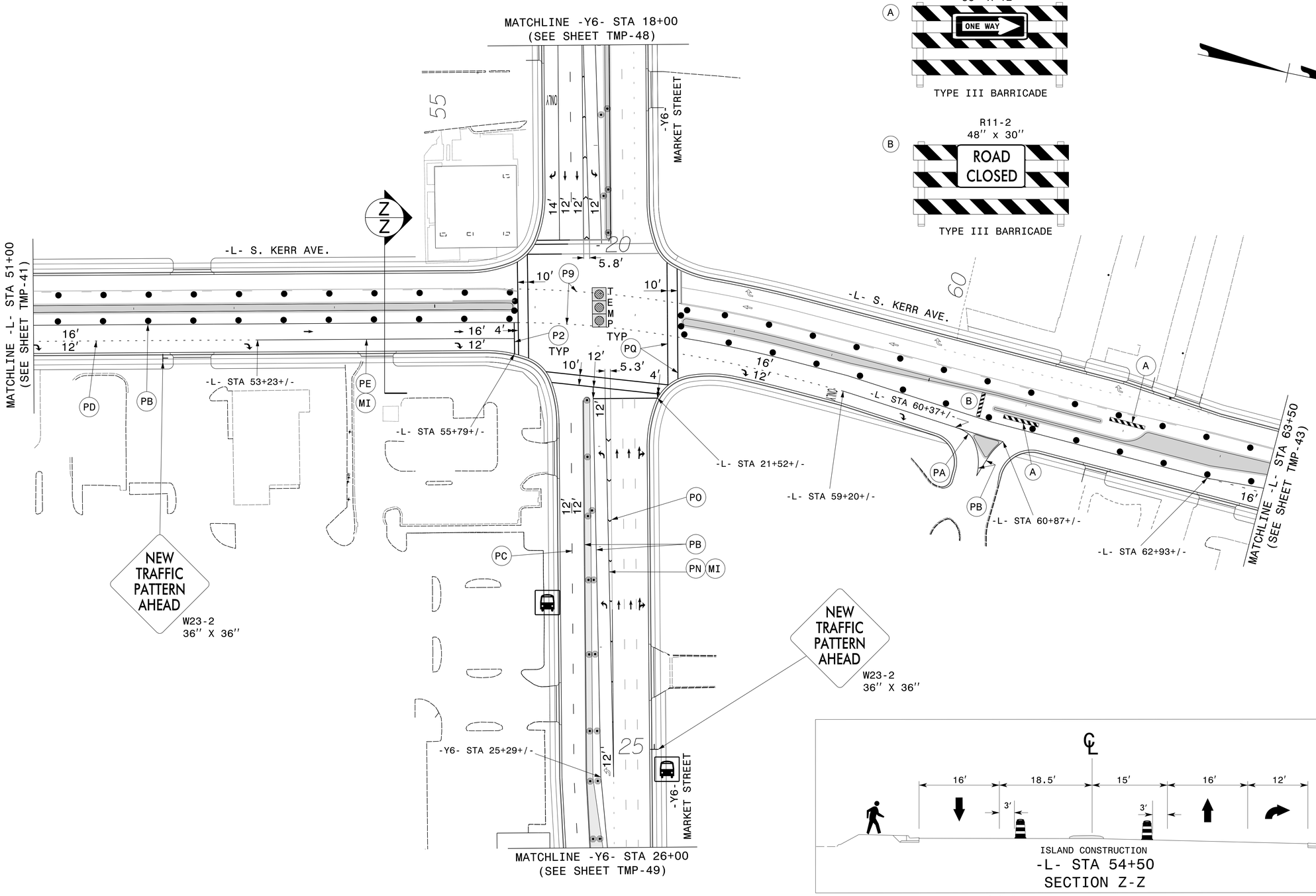
R6-1 R
36" X 12"

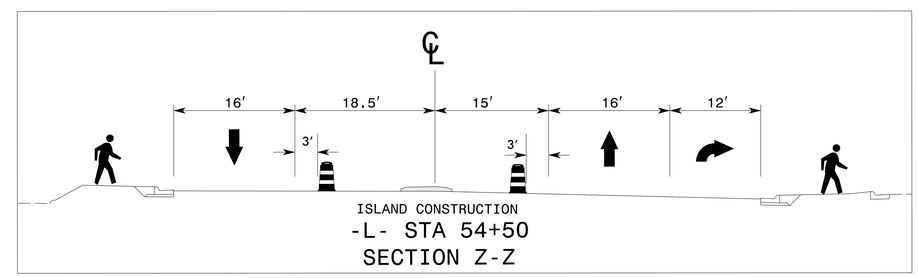


TYPE III BARRICADE

R11-2
48" x 30"

TYPE III BARRICADE





APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

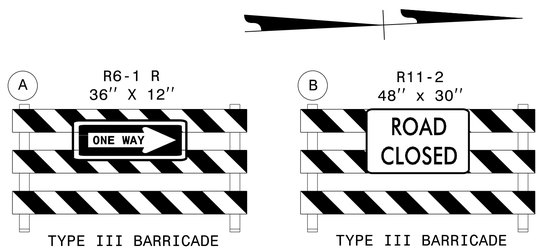
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U0036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_42.dgn
WILE2054 AT DU5290040

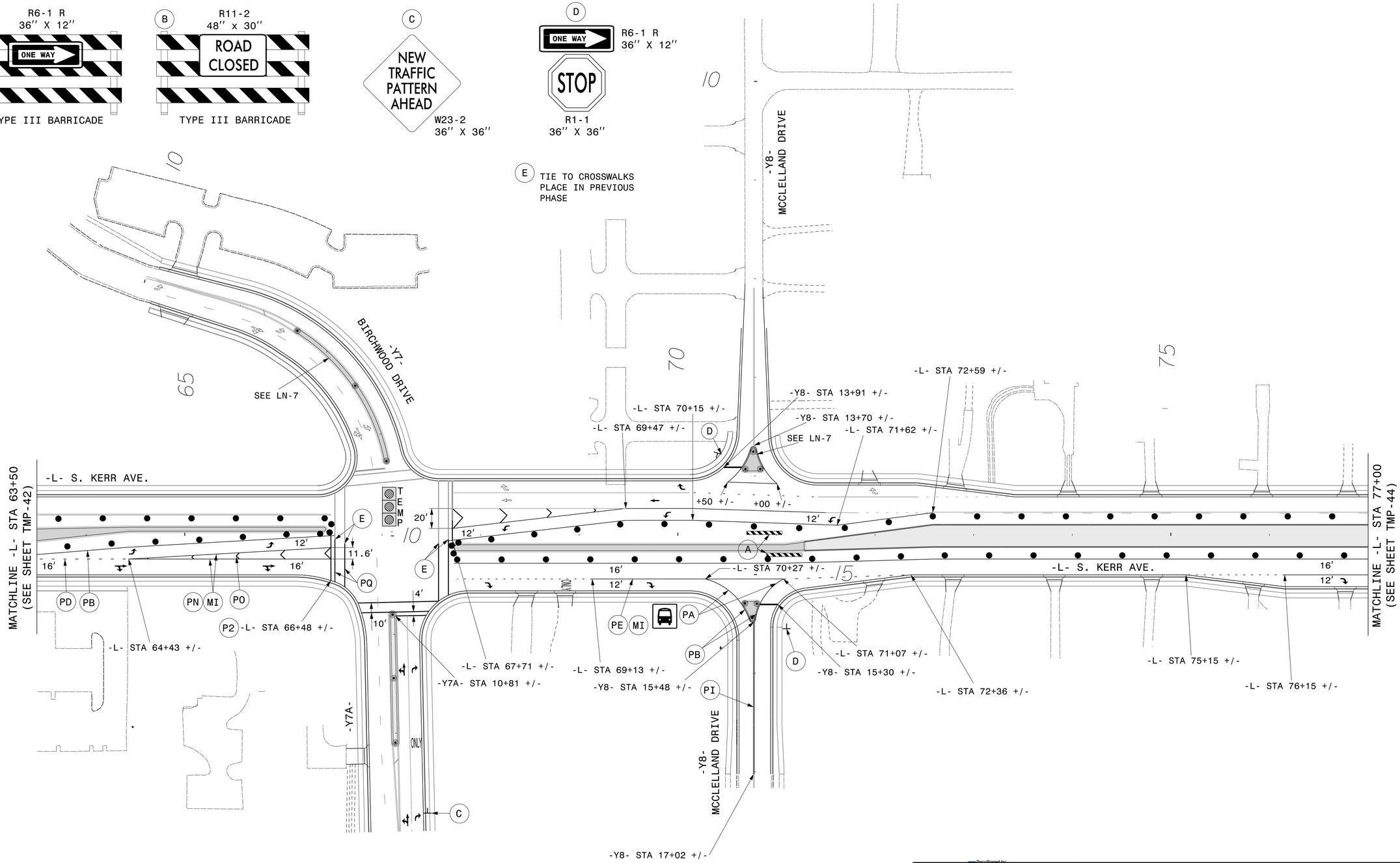
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-43



E TIE TO CROSSWALKS PLACE IN PREVIOUS PHASE



APPROVED: DocuSigned by: 7/9/2015 DATE:

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

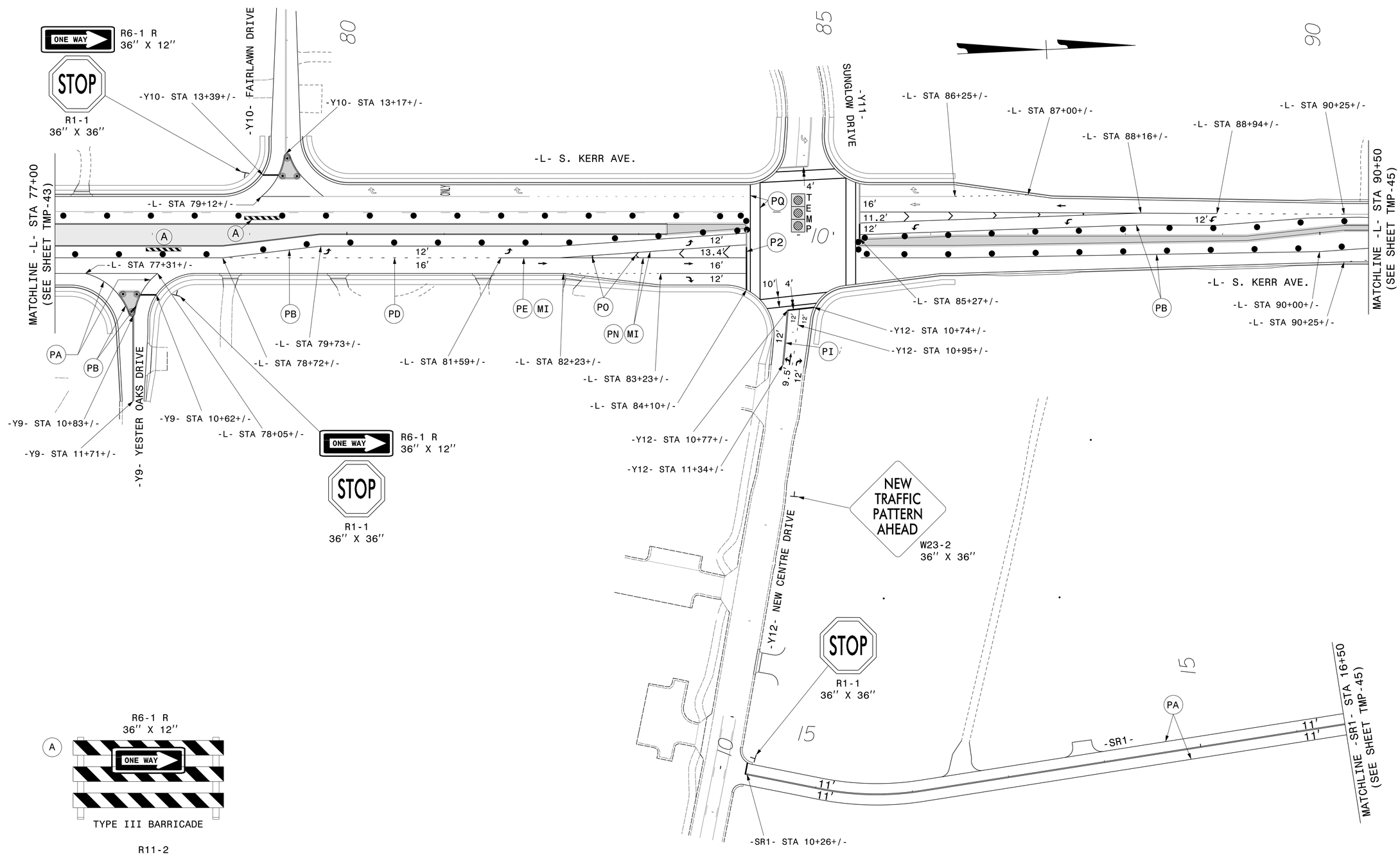
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_43.dgn
WILLE2054 AT DUS290140

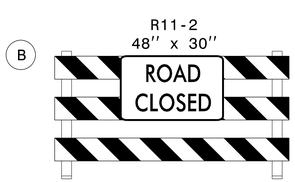
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-44



TYPE III BARRICADE



TYPE III BARRICADE

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B80A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

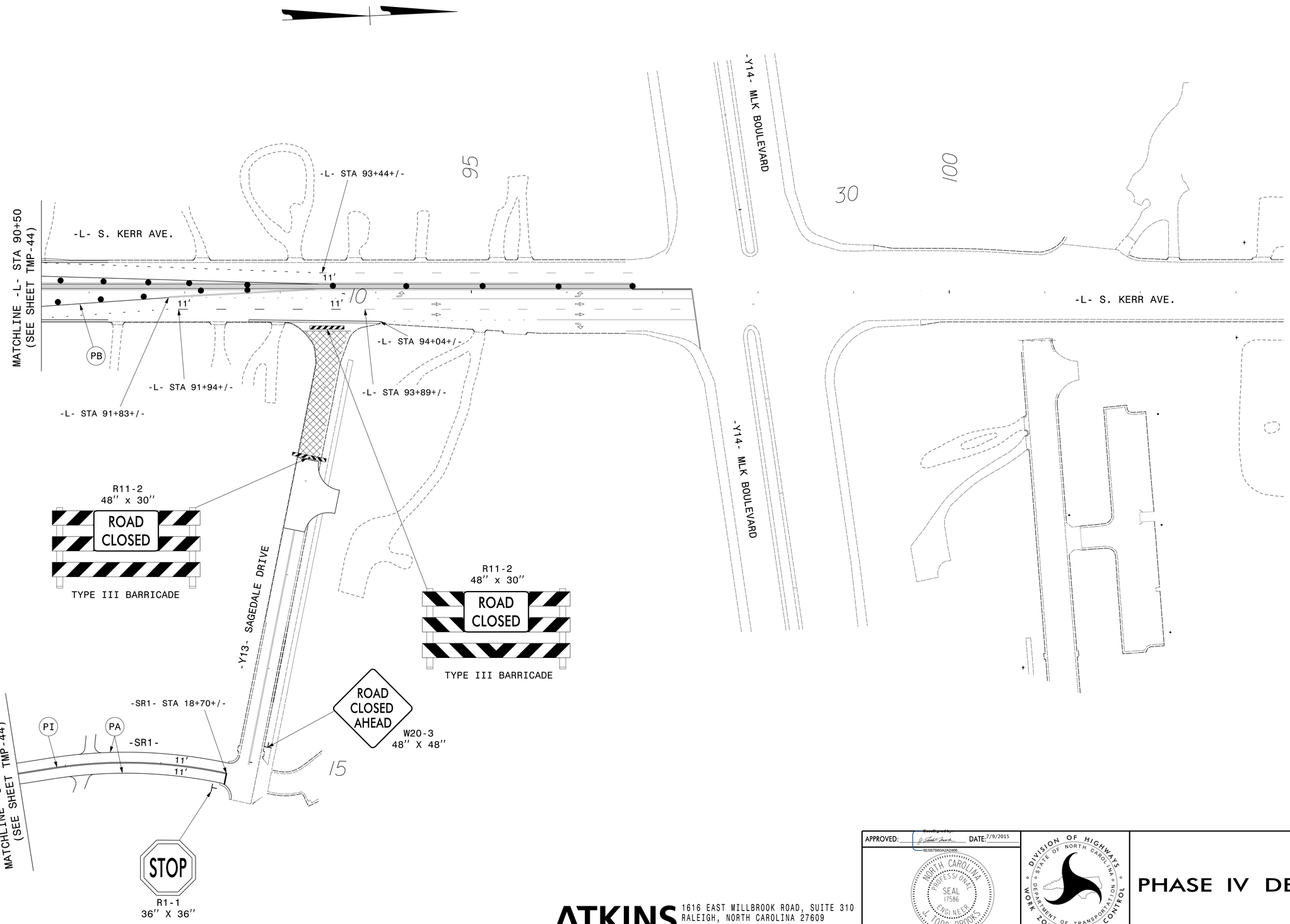
PHASE IV DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_44.dgn
WILE2054 AT DUS2904D

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-45



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

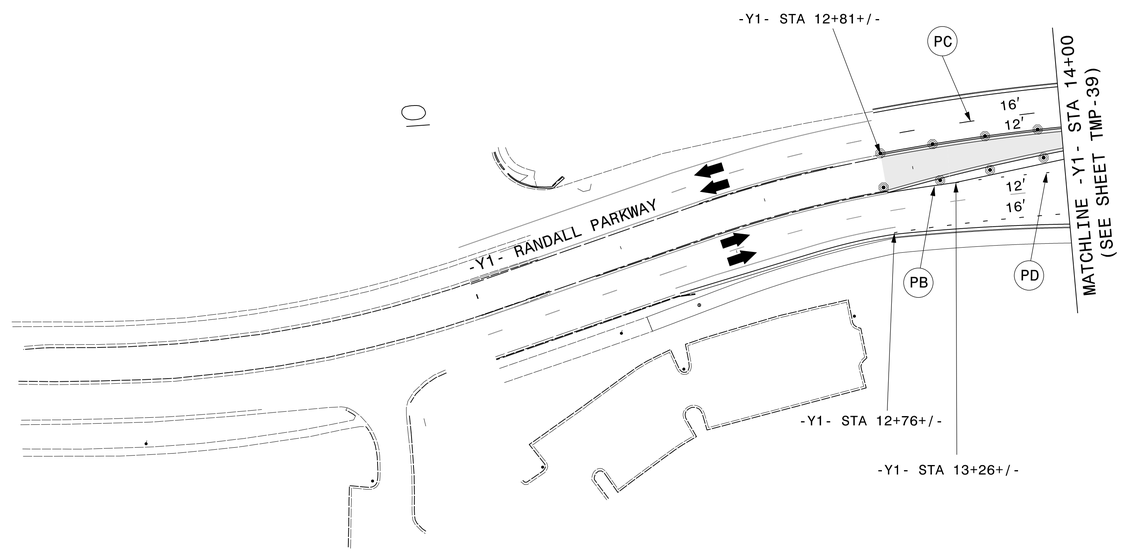
PHASE IV DETAIL

09-JUL-2015 15:38
c:\pwworking\tpbonn\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_45.dgn
WILE2054 AT DGS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-46



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B90A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

09-JUL-2015 15:38
Q:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_46.dgn
WILE2051 AT DLS29040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-47

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 7/9/2015 DATE:
BE5B7B60A2A2466...

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

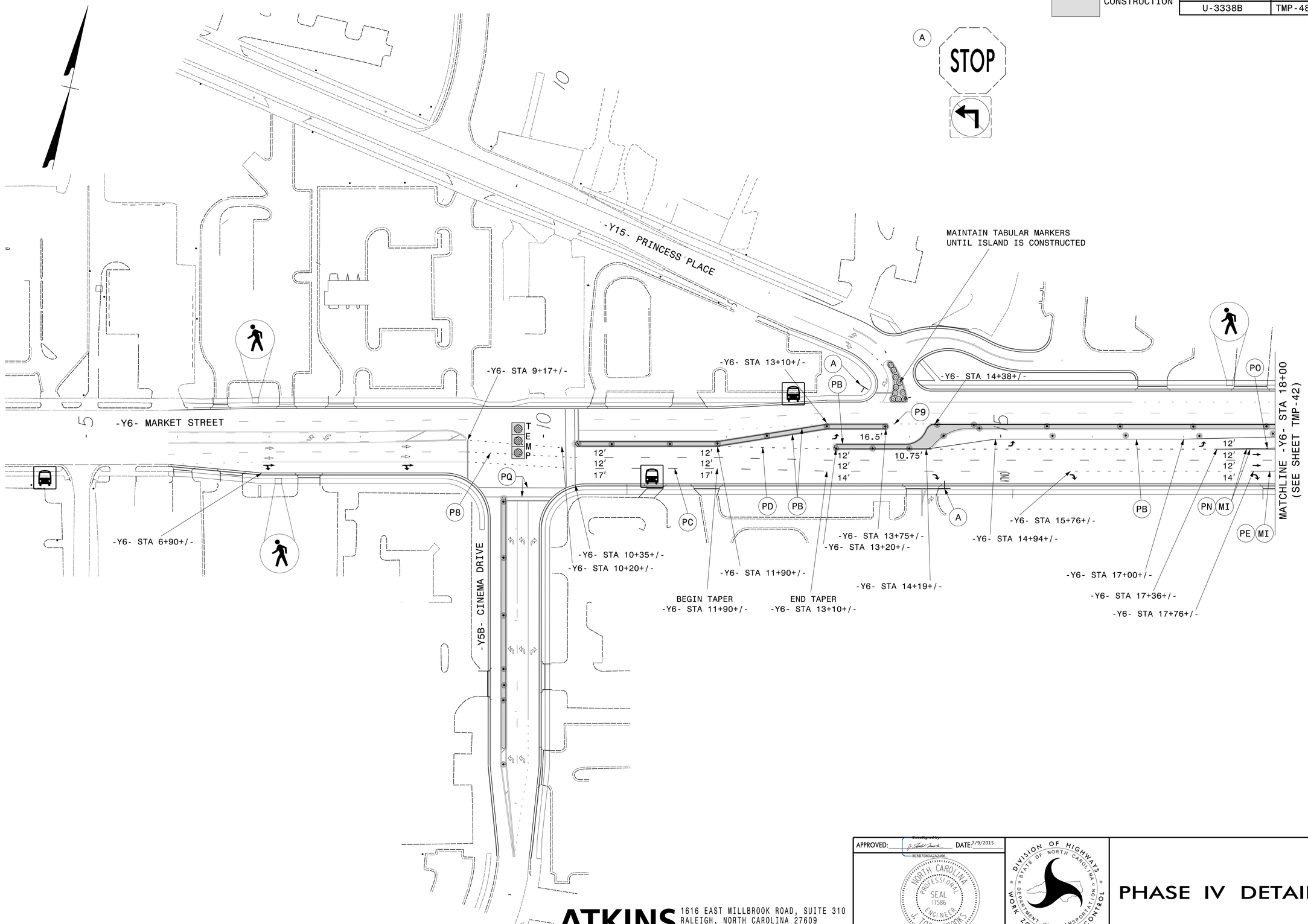
PHASE IV DETAIL

09-JUL-2015 15:38
W:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_47.dgn
WILEZ054 AT D5229040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-48



ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: BE5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

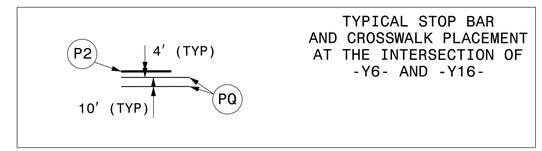
PHASE IV DETAIL

09-JUL-2015 15:38
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_48.dgn
WILE2054 AT DUS29040

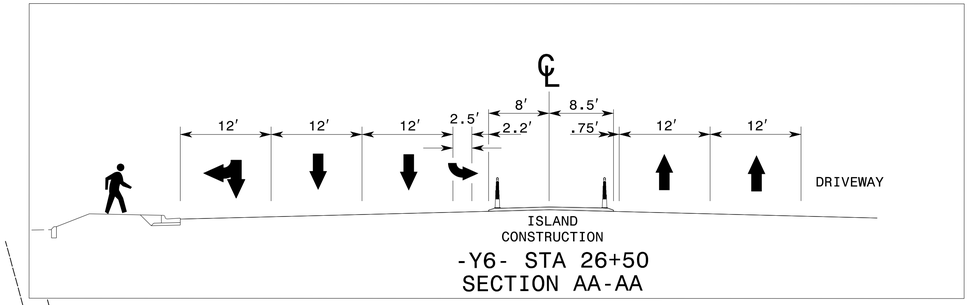
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

CONSTRUCTION

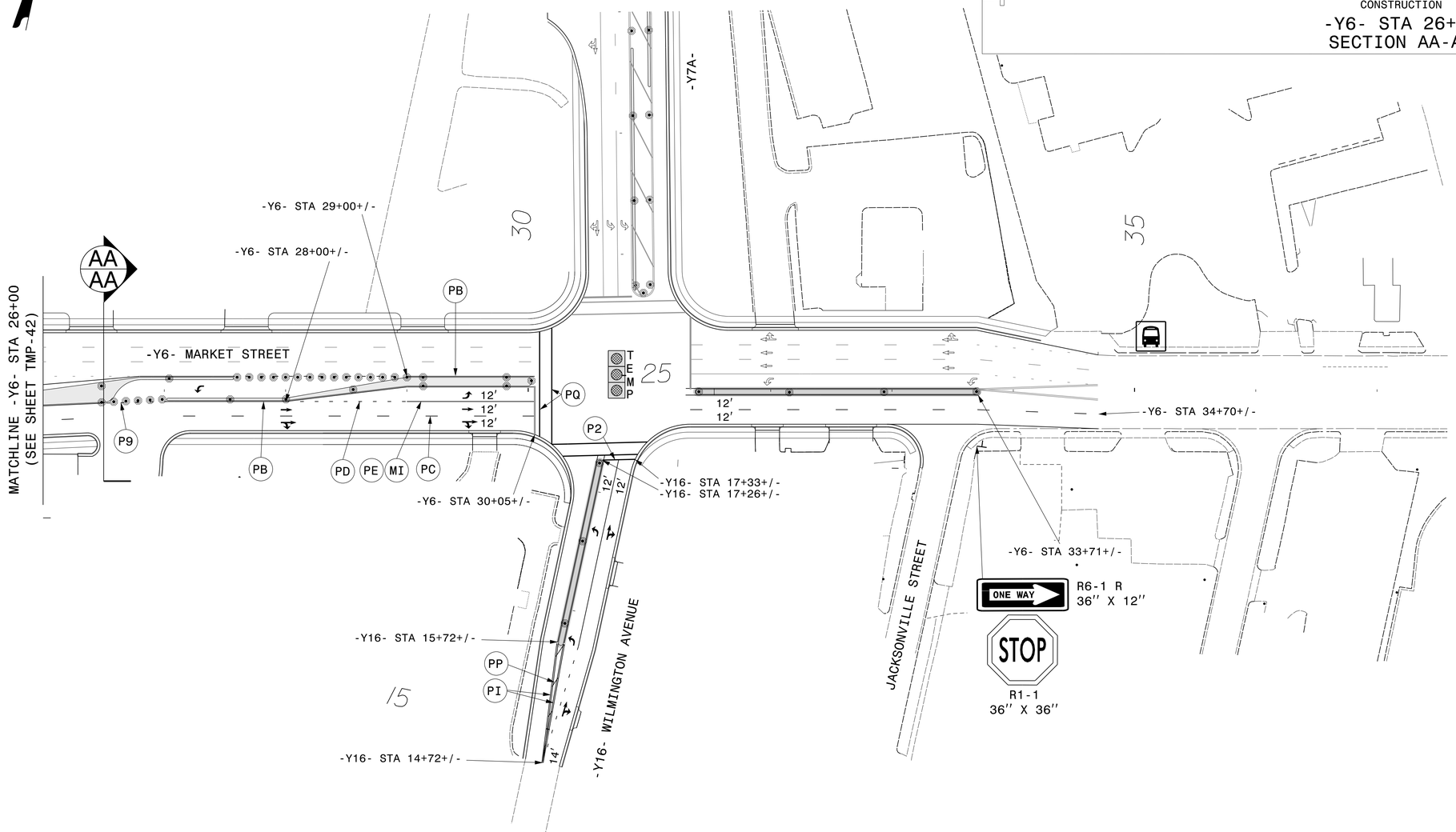
PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-49



TYPICAL STOP BAR
AND CROSSWALK PLACEMENT
AT THE INTERSECTION OF
-Y6- AND -Y16-



-Y6- STA 26+50
SECTION AA-AA



APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE IV DETAIL

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

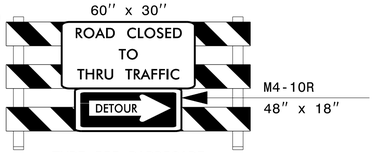
09-JUL-2015 15:38
W:\Transportation\Traffic\Curr\U00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_49.dgn
WILLE2054 AT DS290140

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-50

(A)

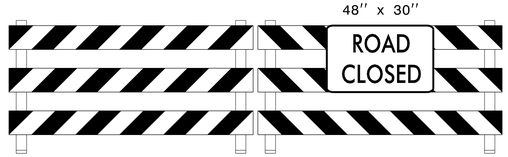
R11-4
60" x 30"



TYPE III BARRICADE

(C)

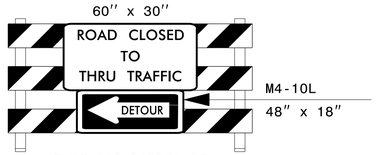
R11-2
48" x 30"



TYPE III BARRICADE(S)

(B)

R11-4
60" x 30"



TYPE III BARRICADE

(D)

R11-4
60" x 30"

TYPE III BARRICADE

(E)

R11-2
48" x 30"

TYPE III BARRICADE

(F)

W20-3
48" X 48"

NEXT LEFT

SP-4L
48" X 12"

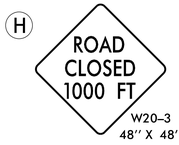
(G)

W20-3
48" X 48"

NEXT RIGHT

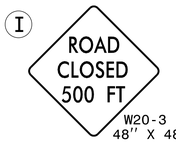
SP-4R
48" X 12"

(H)



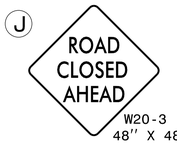
W20-3
48" X 48"

(I)



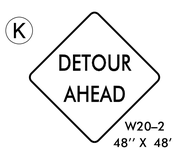
W20-3
48" X 48"

(J)



W20-3
48" X 48"

(K)



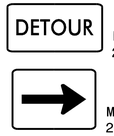
W20-2
48" X 48"

(L)

W20-3
48" X 48"

R3-1
24" X 24"

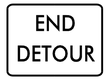
(M)



M4-8
24" X 12"

M6-1
21" X 15"

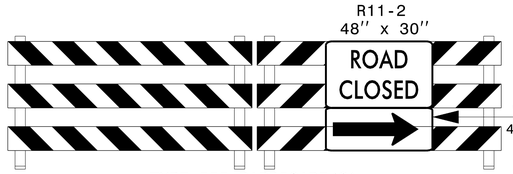
(N)



M4-8 A
24" X 18"

(O)

R11-2
48" x 30"

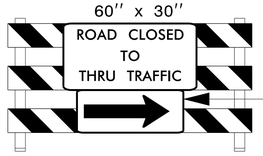


W1-6L
48" x 24"

TYPE III BARRICADE(S)

(P)

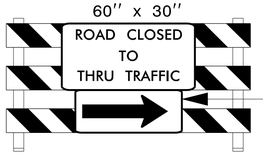
R11-4
60" x 30"



W1-6L
48" x 24"

TYPE III BARRICADES

R11-4
60" x 30"



W1-6L
48" x 24"

TYPE III BARRICADES

WING BARRICADES

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

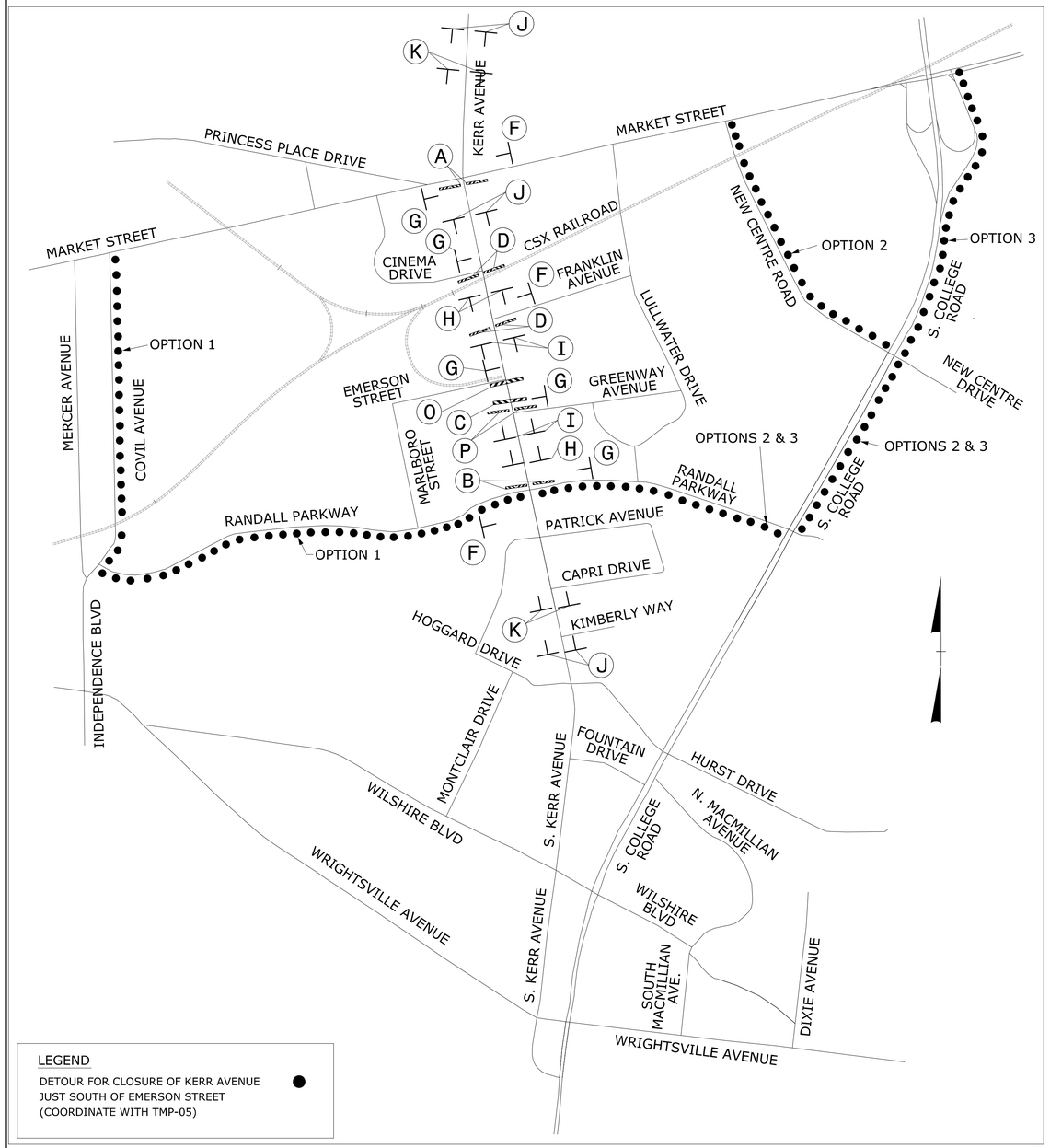
OFF SITE DETOUR ROUTES

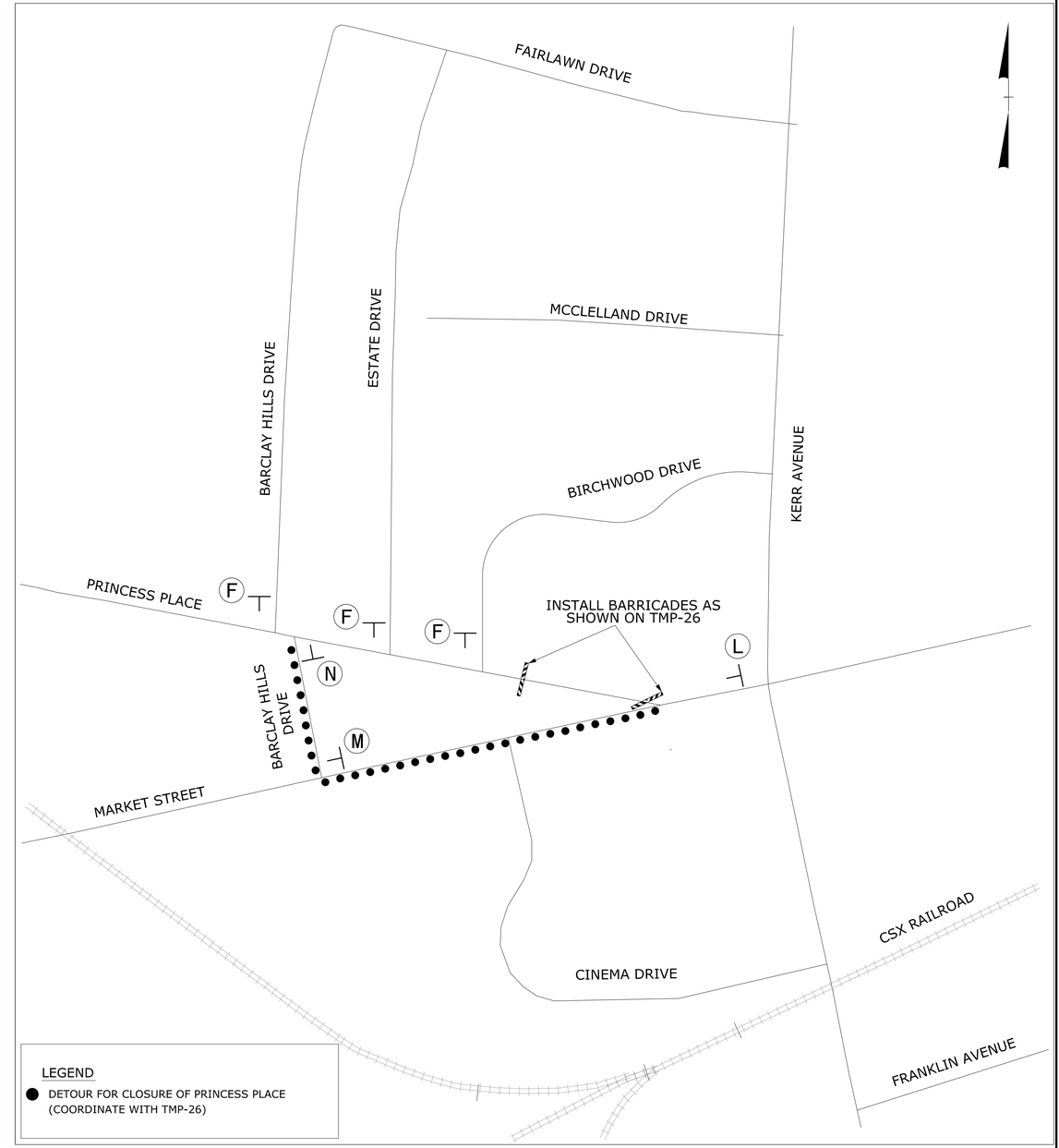
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

09-JUL-2015 15:47
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_50 - 51.dgn
WILE2054 AT DUS290040

DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-51





SIGN PLACEMENT FOR DETOURS SHALL BE IN ACCORDANCE WITH RSD 1101.03 OR AS DIRECTED BY THE ENGINEER

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A2466... DATE: 7/9/2015

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

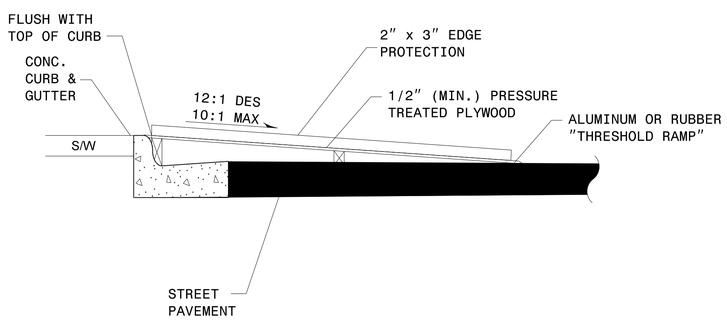
OFF SITE DETOUR ROUTES

09-JUL-2015 15:47
O:\Transportation\Traffic\Curr\00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_50 - 51.dgn
WILZ054 AT DU5290040

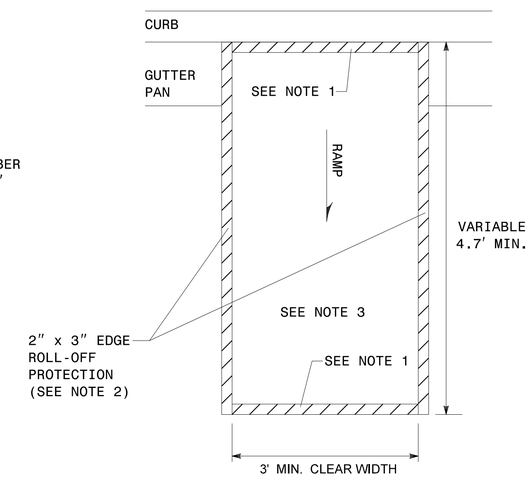
DocuSign Envelope ID: 17B8C229-D359-4CEA-B5A4-93A3F1EA9B70

PROJ. REFERENCE NO.	SHEET NO.
U-3338B	TMP-52

TEMPORARY PEDESTRIAN RAMP



RAMP CROSS SECTION



PLAN VIEW

NOTES:

1. APPLY 2-INCH WIDE YELLOW AND BLACK DIAGONALLY STRIPED WARNING TAPE AT EDGES OF LANDING AREA AND AT BOTTOM AND TOP EDGES OF RAMP.

2. APPLY 2-INCH WIDE YELLOW AND BLACK DIAGONALLY STRIPED WARNING TAPE TO TOP AND INSIDE FACE OF EDGE ROLL-OFF PROTECTION.

3. APPLY WEATHER PROOF SLIP-RESISTANT MATERIAL TO ENTIRE WALKING SURFACE OF RAMPS AND WALKWAYS. USE MATERIAL THAT IS WEATHER-RESISTANT AND WHICH IS SLIP RESISTANT IN BOTH WET AND DRY CONDITIONS.

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

APPROVED: DocuSigned by: 8E5B7B60A2A466 DATE: 7/9/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 17586 ENGINEER J. TODD BROOKS

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TEMPORARY RAMP DETAIL

09-JUL-2015 15:43
Q:\Transportation\Traffic\Curr\I00036772 U-3338B Kerr TMP\FOR NCDOT\U3338B_TC_TCP_52.dgn
WILE2054 AT DUS29040