STATE PROJECT REFERENCE NO.	SHEET NO.
R-2502B	TCP-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION

RICHMOND/MOORE COUNTIES

R-2502B

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
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 PANELS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2 & 2A	PROJECT NOTES
TCP-3	PHASING
TCP-4	TEMPORARY SHORING DATA AND TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-4A	PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS
TCP-5 THRU 12	PHASE I DETAIL
TCP-13 THRU 19	PHASE II DETAIL
TCP-20 THRU 25	PHASE III DETAIL
TCP-26 THRU 28	PHASE IV DETAIL
TCP-28A	TRAFFIC CONTROL FOR NEW STOP LOCATION FOR -Y- LINES
TCP-29	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAY ADVANCED WORK ZONE WARNING SIGNS
PM-1	FINAL PAVEMENT MARKING SCHEDULE
PM-2 THRU 5	FINAL PAVEMENT MARKING PLAN

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. --------- EXIST. PVMT.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE III BARRICADE
- CONE
- DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

APPROVED: _____

DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. 2/19/08

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER

G. L. GETTIER, P.E. TRAFFIC CONTROL PROJECT ENGINEER

J. W. WOOLARD, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER

D. A. HAYES, E. I. TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-2

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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

1. -L- (US 1)
2. ALL -Y- LINES

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 8:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 8:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 8:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 8:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 8:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 8:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 8:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

B) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	RESTRICTIONS	OPERATION
1. -L- US 1	15 MINUTES	TRAFFIC SHIFTS

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

D) 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.

E) 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.

F) 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL 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.

H) 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.

I) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON -L- (US 1) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

J) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES, IN ANY ONE DIRECTION, ON -L- (US 1).

K) PROVIDE A MINIMUM OF 1 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) 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 A 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.

N) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

P) 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.

Q) PROVIDE PERMANENT SIGNING.

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

S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

T) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL 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 TRAFFIC CONTROL 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 TRAFFIC CONTROL 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.

U) 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 IMPACT 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:

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

V) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

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

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. — 2/19/08

PROJECT NOTES

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — TRAFFIC ENGINEERING BRANCH

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-2A

GENERAL NOTES

PAVEMENT MARKINGS AND MARKERS

Y) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. -L- (US 1) & -Y- LINES	POLYUREA	SNOWPLOWABLE
2. -L- BRIDGE DECKS	POLYUREA	RAISED

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

ROAD NAME	MARKING	MARKER
1. -L- (US 1) & -Y- LINES	PAINT	RAISED

AA) 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.

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

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

DD) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE CONES TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

EE) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

1. TEMPORARY PAVEMENT SHALL BE PLACED WHEN PORTABLE CONCRETE BARRIER IS REQUIRED TO MAINTAIN TRAFFIC AND THERE IS INSUFFICIENT SPACE TO PLACE THE BARRIER ON EXISTING PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PROJECT NOTES

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS	
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PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-3

PHASE I

STEP 1) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

STEP 2) USING ROADWAY STANDARD DRAWING (RSD) 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY PAVEMENT ON -L- RIGHT FROM STA. 410+00 -L- TO STA. 415+61 -L- AND FROM STA. 418+11 -L-TO STA. 419+77 -L- UP TO THE EXISTING EDGE AND ELEVATION OF EXISTING -L-. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE TCP-8).

USING RSD 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY PAVEMENT ON -L- LEFT FROM STA. 315+62 -L- TO STA. 323+42 -L-. IN A SIMULTANEOUS MANNER INSTALL TEMPORARY PAVEMENT MARKINGS AT THE SAME STATION LOCATIONS AND SHIFT TRAFFIC ONTO NEW ALIGNMENT. BEGIN CONSTRUCTION OF -L- RIGHT FROM STA. 312+66 -L- TO STA. 411+00 -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. RETURN TRAFFIC TO THE NEW ALIGNMENT AT THE END OF THE WORKDAY (SEE TCP-6 THRU 8).

USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9 AS NEEDED, BEGIN CONSTRUCTION OF -L- LEFT FROM STA. 298+00 -L- TO STA. 309+00 -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE TCP-5).

USING RSD 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS FROM STA. 438+03 -L- TO STA. 448+60 -L-. INSTALL PORTABLE CONCRETE BARRIER (PCB) ALONG THE LEFT EXISTING SHOULDER OF -L- FROM STA. 418+30 -L- TO STA. 433+22 -L- AND FROM STA. 436+24 -L- TO STA. 447+85 -L-. INSTALL TEMPORARY SHORING BEHIND THE PCB FROM STA. 419+80 -L- TO STA 433+22 -L- AND FROM STA. 436+24 -L- TO STA. 446+20 -L-. BEGIN CONSTRUCTION OF -L- LEFT FROM STA. 420+00 -L- TO STA. 446+00 -L-. RETURN TRAFFIC TO THE NEW ALIGNMENT AT THE END OF THE WORKDAY (SEE TCP-8 THRU 11).

USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED, BEGIN CONSTRUCTION OF THE FOLLOWING UP TO THE EDGE AND ELEVATION OF EXISTING -L- (RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY) (SEE TCP-5 & 6):
- -L- LEFT FROM STA. 309+00 -L- TO STA. 314+50 -L-
- -L- RIGHT FROM STA. 309+38 -L- TO STA. 312+66 -L-

USING RSD 1101.02, SHEET 1 OF 9, BEGIN CONSTRUCTION OF -Y19- FROM STA. 12+00 -Y19- TO -L-. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE TCP-7).

USING RSD 1101.02, SHEET 3 OF 9 AND DRUMS AS NEEDED, CONSTRUCT SBXOVR FROM STA. 451+50 -L- TO STA. 457+41 -L- UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE. INSTALL PAVEMENT MARKINGS ON THE CONSTRUCTED PORTION ONLY. RETURN TRAFFIC TO THE PATTERN SHOWN ON TCP-12.

USING DRUMS AS NEEDED, CONSTRUCT NBXOVER FROM STA. 454+96 -L- TO STA. 456+96 -L- UP TO BUT NOT INCLUDING THE SURFACE COURSE. RETURN TRAFFIC TO THE PATTERN SHOWN ON TCP-12.

PHASE II

STEP 1) USING RSD 1101.02, SHEET 3 OF 9 AS NEEDED, REMOVE EXISTING MARKINGS ON SOUTHBOUND US 1 AND COMPLETE INSTALLATION OF PAVEMENT MARKINGS ON SBXOVR AS SHOWN ON SHEETS TCP-15 AND 16. SHIFT SOUTHBOUND US 1 TRAFFIC ONTO SBXOVR.

STEP 2) USING RSD 1101.02, SHEET 1 OF 9, IN A SIMULTANEOUS MANNER SHIFT TRAFFIC ONTO THE NEW ALIGNMENT AND INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- AT THE FOLLOWING LOCATIONS (SEE TCP-13 & 14):
- LEFT EDGELINE FROM STA. 410+05 -L- TO STA. 423+19 -L-
- CENTERLINE AND RIGHT EDGELINE FROM STA. 409+89 -L- TO STA. 423+19 -L-

USING RSD 1101.02, SHEET 1 OF 9, EXTEND PCB BACK FROM STA. 418+30 -L- TO STA. 411+00 (RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY). BEHIND PCB EXTEND TEMPORARY SHORING BACK FROM STA. 419+80 -L- TO STA. 413+15 -L-. CONSTRUCT -L- LEFT UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE FROM STA. 412+23 -L- TO STA. 420+00 -L- (SEE TCP-13).

USING RSD 1101.02, SHEET 1 OF 9 CONSTRUCT -L- LEFT WIDENING FROM STA. 408+81 -L- TO STA. 412+23 -L- UP TO THE EDGE AND ELEVATION OF EXISTING (SEE TCP-13).

USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9 AS NEEDED, COMPLETE CONSTRUCTION OF THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY) (SEE TCP-5, 7, 13, & 14):
- -L- LEFT FROM STA. 298+00 -L- TO STA. 309+00 -L-
- -L- LEFT FROM STA. 420+00 -L- TO STA. 446+00 -L-.
- -Y19-

USING RSD 1101.02, SHEET 1 OF 9, RESET PCB FROM STA. 446+20 -L- TO STA. 447+85 -L- AND INSTALL PCB FROM STA. 447+85 -L- TO STA. 450+80 -L- AS SHOWN ON TCP-14 & 15 (RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY). BEHIND PCB EXTEND TEMPORARY SHORING FROM STA. 446+20 -L- TO STA. 450+80 -L-. CONSTRUCT -L- LEFT FROM STA. 446+00 -L- TO STA. 454+50 -L- AND THE OUTSIDE LANE OF -L- LEFT FROM STA. 454+50 -L- TO STA. 456+50 -L- (SEE TCP-14 & 15).

AWAY FROM TRAFFIC, CONSTRUCT NBXOVR FROM STA. 451+51 -L- TO STA. 453+50 -L- (SEE TCP-15).

STEP 3) USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED, REMOVE PCB FROM STA. 411+00 -L- TO STA. 411+76 -L-.

AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS, MARKERS, AND DRUMS ON -L- SOUTHBOUND FROM STA. 412+23 -L- TO STA. 457+41 -L-. INSTALL PCB FROM STA. 412+80 -L- TO STA. 450+90 -L- AND FROM STA. 452+00 -L- TO STA. 456+58 -L- (SEE TCP-17 & 18).

STEP 4) USING RSD 1101.02, SHEET 1 OF 9, WEDGE -L- SOUTHBOUND FROM STA. 408+39 -L- TO STA. 412+23 -L- AND INSTALL TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS. USING RSD 1101.02, SHEET 3 OF 9, INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- SOUTHBOUND FROM STA. 457+41 -L- TO STA. 472+00 -L-, AND USING DRUMS SHIFT -L- SOUTHBOUND TRAFFIC ONTO -L- SOUTHBOUND FROM STA. 408+39 -L- TO STA. 457+41 -L- (SEE TCP-17 THRU 19).

STEP 5) AWAY FROM TRAFFIC CONSTRUCT NBXOVR FROM STA. 453+50 -L- TO STA. 455+00 -L- AND PLACE SURFACE COURSE ON NBXOVR FROM STA. 455+00 -L- TO STA. 456+96 -L- (SEE TCP-18).

PHASE III

STEP 1) AWAY FROM TRAFFIC INSTALL TEMPORARY MARKINGS AND MARKERS ON -L- LEFT FROM STA. 298+00 -L- TO STA. 309+00 -L- (SEE TCP-20).

COMPLETE PHASE III, STEP 2 IN A SIMULTANEOUS AND CONTINUOUS MANNER WITHIN 72 HOURS.

STEP 2) USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED, WEDGE -L- LEFT DOWN TO THE EDGE AND ELEVATION OF EXISTING -L- FROM STA. 309+00 -L- TO STA. 314+50 -L-, INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS FROM STA. 309+00 -L- TO STA. 314+79 -L-, AND SHIFT TRAFFIC ONTO SOUTHBOUND -L- (SEE TCP-20 & 21).

AWAY FROM TRAFFIC, REMOVE PCB ON -L- SOUTHBOUND FROM STA. 452+00 -L- TO STA. 453+48 -L-. USING DRUMS AS NEEDED, INSTALL TEMPORARY PAVEMENT MARKINGS ON NBXOVR FROM STA. 451+43 -L- TO STA. 456+96 -L- AND SHIFT TRAFFIC ONTO NORTHBOUND -L- (SEE TCP-25).

USING TYPE III BARRICADES AND DRUMS CLOSE -Y18- (OFFSITE DETOUR TO BE HANDLED BY OTHERS) (SEE TCP-22).

STEP 3) USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED COMPLETE CONSTRUCTION OF -L- RIGHT FROM STA. 312+02 -L- TO STA. 411+00 -L-. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE TCP-21 & 22).

AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF -L- RIGHT FROM STA. 309+38 -L- TO 312+02 -L- (SEE TCP-21 & 22).

AWAY FROM TRAFFIC REMOVE PCB LOCATED TO THE RIGHT OF THE TEMPORARY SHORING (SEE TCP-17 & 18).

AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-20 THRU 22):
- -L- RIGHT FROM STA. 304+97 -L- TO STA. 312+02 -L-
- -L- RIGHT FROM STA. 411+00 -L- TO STA. 418+39 -L-
- -Y18-
- INSTALL TEMPORARY PAVEMENT ON -L- RIGHT FROM STA. 415+19 -L- TO STA. 416+17 -L-.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -L- RIGHT FROM STA. 298+00 -L- TO STA. 304+97 -L- AND FROM STA. 418+39 -L- TO STA. 453+00 -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-20 THRU 25).

AWAY FROM TRAFFIC BEGIN THE FOLLOWING (SEE TCP-25):
- (BEHIND PCB) CONSTRUCTION OF THE INSIDE LANE OF -L- LEFT FROM STA. 454+50 -L- TO STA. 456+50 -L-
- THE REMOVAL OF SBXOVR AS SHOWN ON TCP-25.

USING RSD 1101.02, SHEET 1 OF 9 AS NEEDED, CONSTRUCT -Y17- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE TCP-20).

PHASE IV

STEP 1) BEHIND PCB REMOVE ALL TEMPORARY SHORING. INSTALL TEMPORARY PAVEMENT FROM STA. 416+17 -L- TO STA. 417+50 -L- (SEE TCP-28).

AWAY FROM TRAFFIC REMOVE PCB, INSTALL TEMPORARY PAVEMENT MARKINGS, AND MARKERS FROM STA. 309+50 -L- TO STA. 416+68 -L- ON -L- NORTHBOUND (SEE TCP-26 THRU 28).

STEP 2) USING RSD 1101.02, SHEET 1 OF 9, INSTALL TEMPORARY MARKINGS AND MARKERS ON -L- FROM STA. 304+97 -L- TO STA. 309+50 -L-, FROM STA. 416+68 -L- TO STA. 420+07 -L-, INSTALL RUMBLE STRIPS AND SIGNS ON -Y- LINES AS SHOWN ON TCP-28A, AND SHIFT TRAFFIC ONTO NEW ALIGNMENT (SEE TCP-26 & 28).

REMOVE BARRICADES AND OPEN -Y18- TO TRAFFIC (SEE TCP-28).

STEP 3) AWAY FROM TRAFFIC COMPLETE CONSTRUCTION OF -L- RIGHT FROM STA. 298+00 -L- TO STA. 304+97 -L- AND FROM STA. 418+39 -L- TO STA. 453+00 -L- (SEE TCP-26 & 28).

AWAY FROM TRAFFIC CONSTRUCT -L- SOUTHBOUND UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE FROM STA. 309+00 -L- TO STA. 412+23 -L- (SEE TCP-26 THRU 28).

PHASE V

STEP 1) AWAY FROM TRAFFIC INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- RIGHT FROM STA. 309+00 -L- TO STA. 416+68 -L- (SEE TCP-26 THRU 28 FOR STATIONS).

USING RSD 1101.02, SHEET 1 OF 9, SHIFT TRAFFIC ONTO -L- RIGHT AND INSTALL PAVEMENT MARKINGS AND MARKERS ON -L- FROM STA. 304+97 -L- TO STA. 309+00 -L-, AND FROM STA. 416+68 -L- TO STA. 420+07 -L- (SEE TCP-26 & 28 FOR STATIONS).

STEP 2) USING RSD 1101.02, SHEET 4 OF 7, COMPLETE CONSTRUCTION OF ALL CURB & GUTTER, MEDIAN SECTIONS, MONOLITHIC ISLANDS, AND REMOVE ANY REMAINING TEMPORARY PAVEMENT FROM THE MEDIAN AREA.

STEP 3) AWAY FROM TRAFFIC INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND FINAL PAVEMENT MARKERS ON -L- RIGHT. SHIFT NORTHBOUND TRAFFIC ONTO -L- RIGHT. USING DRUMS, CLOSE THE INSIDE LANE OF -L- LEFT TO TRAFFIC (SEE PM-2 THRU 5).

USING RSD 1101.03, SHEET 3 OF 9 AS NEEDED, REMOVE NBXOVR (SEE TCP-25).

BEHIND PCB, COMPLETE CONSTRUCTION OF THE INSIDE LANE OF -L- LEFT FROM STA. 454+50 -L- TO STA. 456+50 -L-. REMOVE PCB UPON COMPLETION AND REPLACE WITH DRUMS (SEE TCP-25).

STEP 4) USING DRUMS TO ALTERNATE LANE CLOSURES, INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND FINAL PAVEMENT MARKERS ON -L- LEFT (REPLACE DRUMS IN THE INSIDE LANE OF SOUTHBOUND -L- AT THE END OF THE WORKDAY UNTIL ALL PAVING, STRIPING, AND MARKING OPERATIONS ARE COMPLETED). OPEN BOTH LANES OF -L- LEFT TO SOUTHBOUND TRAFFIC (SEE PM-2 THRU 5).

STEP 5) REMOVE ALL TRAFFIC CONTROL DEVICES, PORTABLE SIGNING, STATIONARY SIGNING, AND ADVANCE WARNING SIGNING FROM THE WORKZONE.

APPROVED:_____ DATE:_____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASING

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — TRAFFIC ENGINEERING BRANCH

REVISIONS

CADD FILE

19-FEB-2008 09:27
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dhayes AT W7TC2242d

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-4

TEMPORARY SHORING DATA

Temporary Shoring No. ① (SEE SHEETS TCP-8 AND 9)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

USE A SHEETING PILE WALL FROM STATION 431+73.00, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE TO STATION 433+22.00, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, g = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, g = 60 PCF
- FRICTION ANGLE, f = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

Temporary Shoring No. ② (SEE SHEET TCP-11)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

USE A SHEETING PILE WALL FROM STATION 436+24.00, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE TO STATION 436+79.00, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, g = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, g = 60 PCF
- FRICTION ANGLE, f = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

Temporary Shoring No. ③ (SEE SHEET TCP-13)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 413+15.00* -L-, 6.0 FT. RIGHT OF US 1 SB DETOUR EDGELINE, TO STATION 419+80.00* -L-, 6.0 FT. RIGHT OF US 1 SB DETOUR EDGELINE, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, g = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, g = 60 PCF
- FRICTION ANGLE, f = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 413+15.00* -L-, 6.0 FT. RIGHT OF US 1 SB DETOUR EDGELINE, TO STATION 419+80.00* -L-, 6.0 FT. RIGHT OF US 1 SB DETOUR EDGELINE. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

Temporary Shoring No. ④ (SEE SHEET TCP-14)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 446+20.00* -L-, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE, TO STATION 448+00.00* -L-, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, g = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, g = 60 PCF
- FRICTION ANGLE, f = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATAION 446+20.00* -L-, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE, TO STATION 448+00.00* -L-, AVERAGE 7.5 FT. RIGHT OF EXISTING US 1 SB EDGELINE. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

NOTE: THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTCU ON NOVEMBER 19, 2007, OCTOBER 10, 2008, AND SEALED BY A PROFESSIONAL ENGINEER, JOHN L. PILIPCHUK, LICENSE #25521.

NOTE: ALL DIMENSIONS AND STATIONS +/-

Temporary Shoring No. ⑤ (SEE SHEET TCP-15)

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 448.00.00* -L-, TRANSITION 7.5 FT. TO 19.0 FT. RIGHT OF EXISTING US 1 SB EDGELINE, TO STATION 450+80.00* -L-, TRANSITION 7.5 FT. TO 19.0 FT. RIGHT OF EXISTING US 1 SB EDGELINE, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, g = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, g = 60 PCF
- FRICTION ANGLE, f = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATAION 448.00.00* -L-, TRANSITION 7.5 FT. TO 19.0 FT. RIGHT OF EXISTING US 1 SB EDGELINE, TO STATION 450+80.00* -L-, TRANSITION 7.5 FT. TO 19.0 FT. RIGHT OF EXISTING US 1 SB EDGELINE. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS
	PAINT(4")
PA	WHITE EDGELINE (2X)
PB	YELLOW EDGELINE (2X)
PD	2 FT. WHITE MINISKIP (2X)
PH	YELLOW SINGLE CENTER (2X)
PI	YELLOW DOUBLE CENTER (2X)
	PAINTMARKING SYMBOLS
QC	STRAIGHT ARROW (2X)
QD	COMBO.STRAIGHT/LEFT (2X)
	THERMOPLASTIC(4", 120 MILS)
	RUMBLE STRIPS
	MARKERS
	TEMPORARY RAISED PAVEMENT MARKERS
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

APPROVED J. W. Woolard DATE: 10/10/08

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

TEMPORARY SHORING DATA AND TEMPORARY PAVEMENT MARKING SCHEDULE

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

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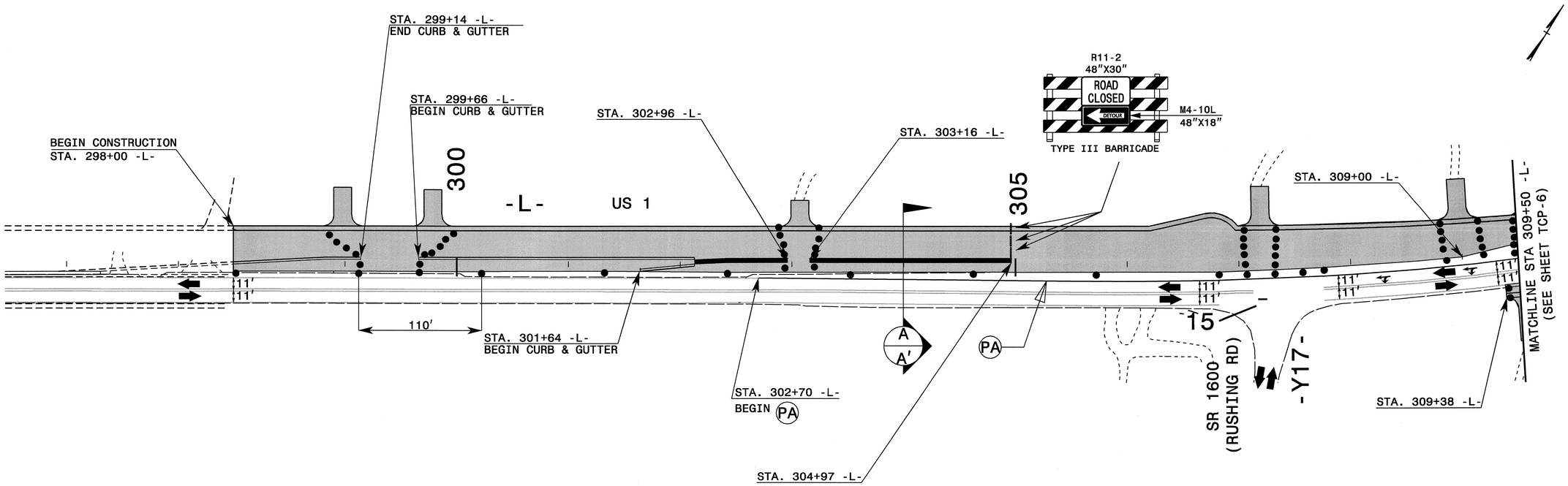
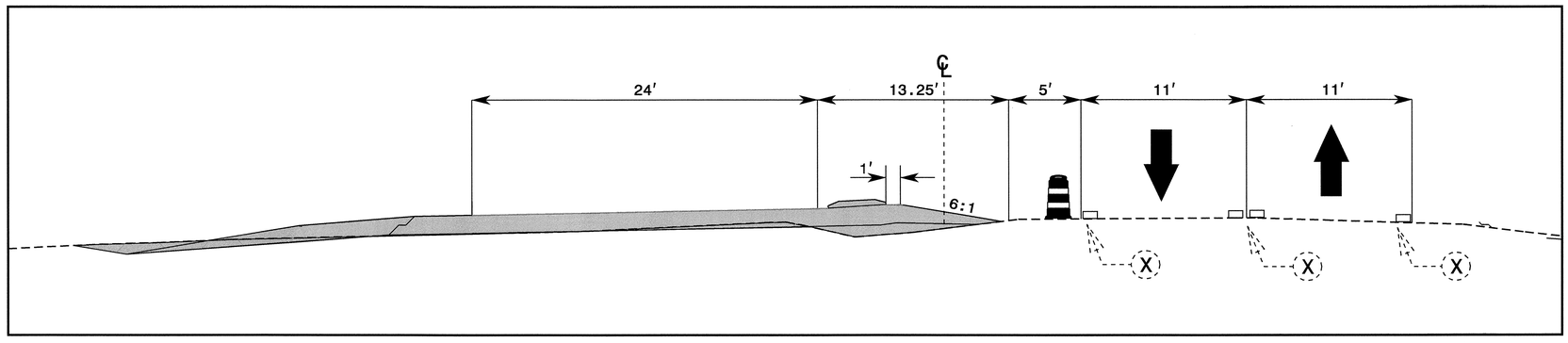
PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-5





CUT SECTION (A / A′)
STA. 304+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↑ : QD ⇑ : QG

↱ : QB ↑ : QE

↑ : QC ↑ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. — 2/19/08

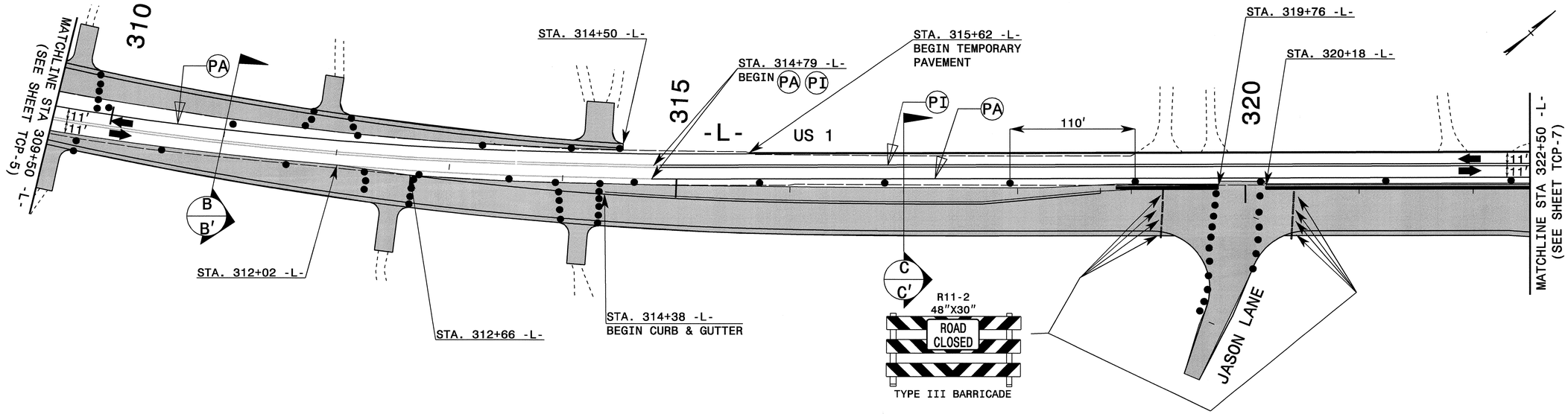
PHASE I DETAIL

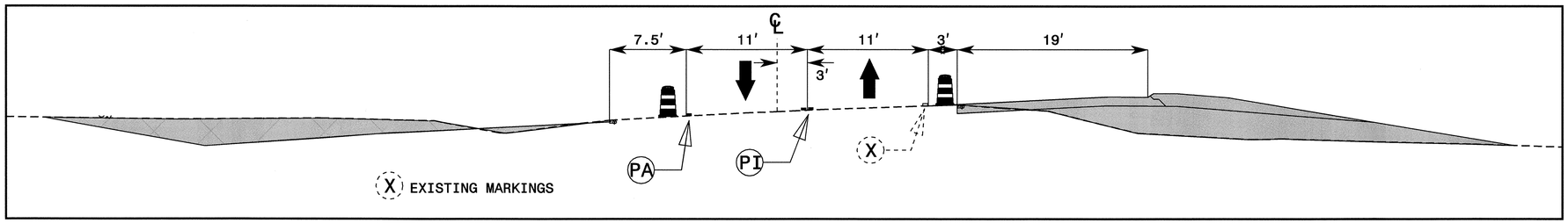
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — DIVISION OF HIGHWAYS — TRAFFIC ENGINEERING BRANCH — TRAFFIC ENGINEERING & SAFETY SYSTEMS UNIT

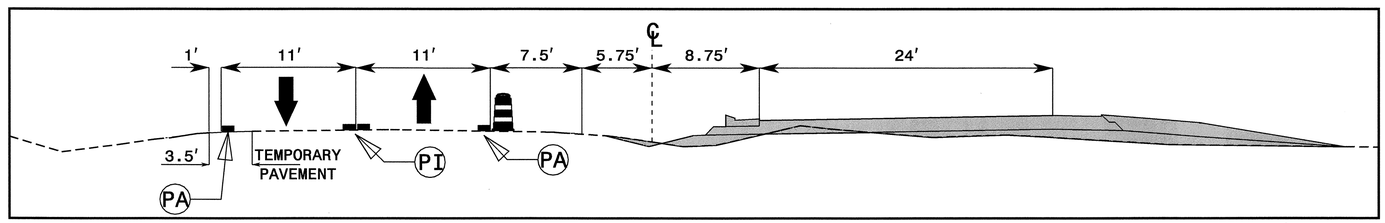
REVISIONS	
CADD FILE	

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-6





CUT SECTION B / B' STA. 311+00 -L-



CUT SECTION C / C' STA. 317+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE I DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — TRAFFIC ENGINEERING BRANCH

REVISIONS	
CADD FILE	

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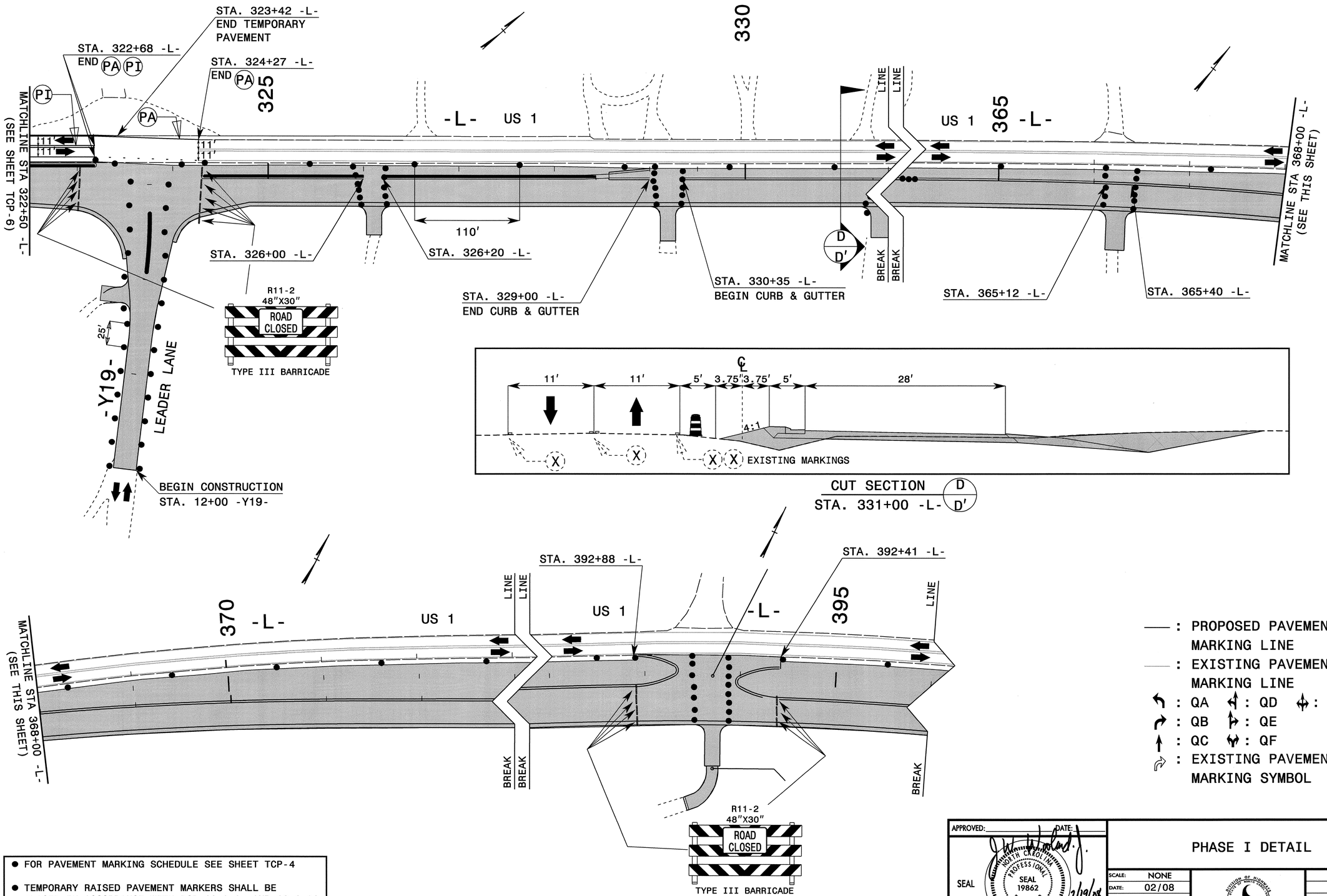
PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-7



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

APPROVED: DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE I DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — TRAFFIC ENGINEERING BRANCH

REVISIONS

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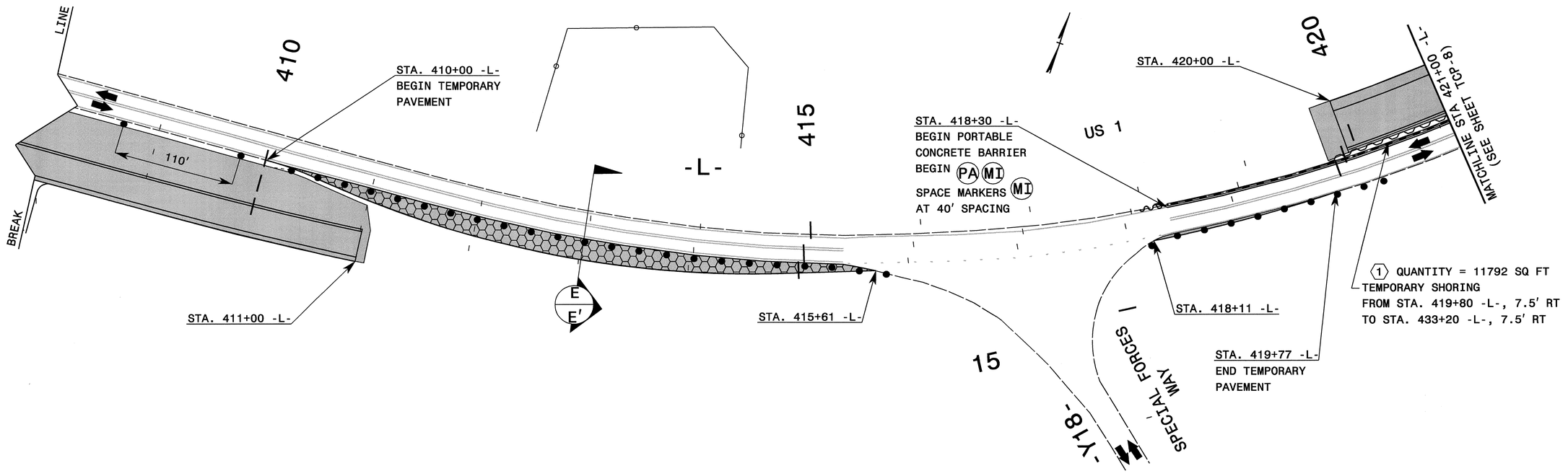
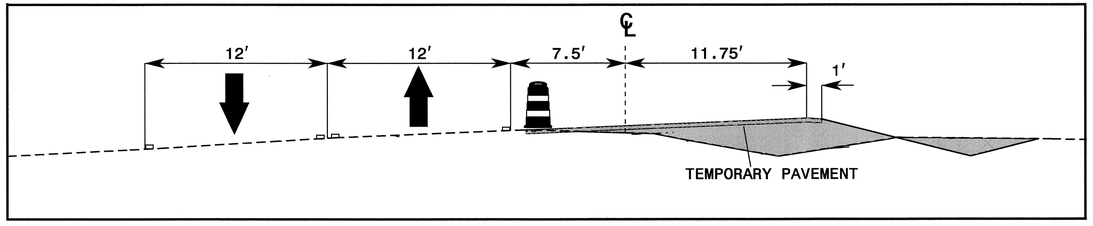
ahayes AT W2TC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-8





CUT SECTION $\frac{E}{E'}$
STA. 413+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

TEMPORARY PAVEMENT

1 SEE SHEET TCP-4 FOR TEMPORARY SHORING DATA

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE I DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS	
CADD FILE	

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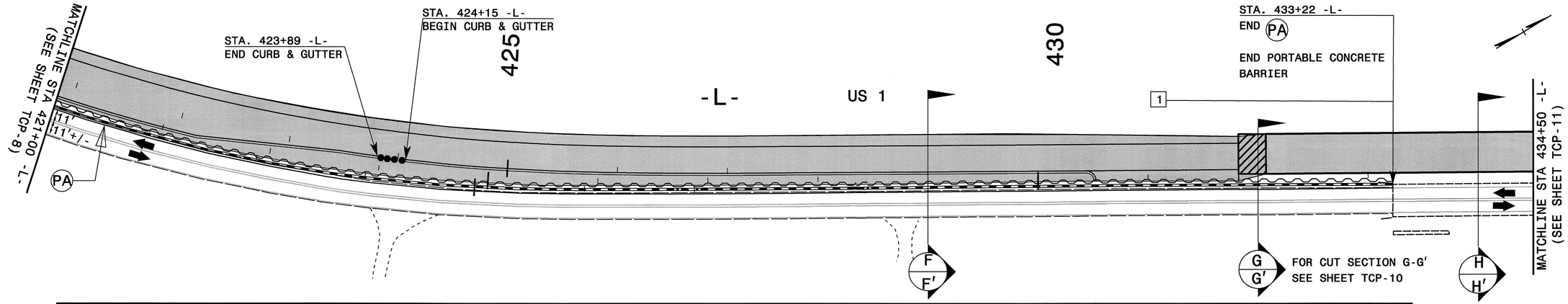
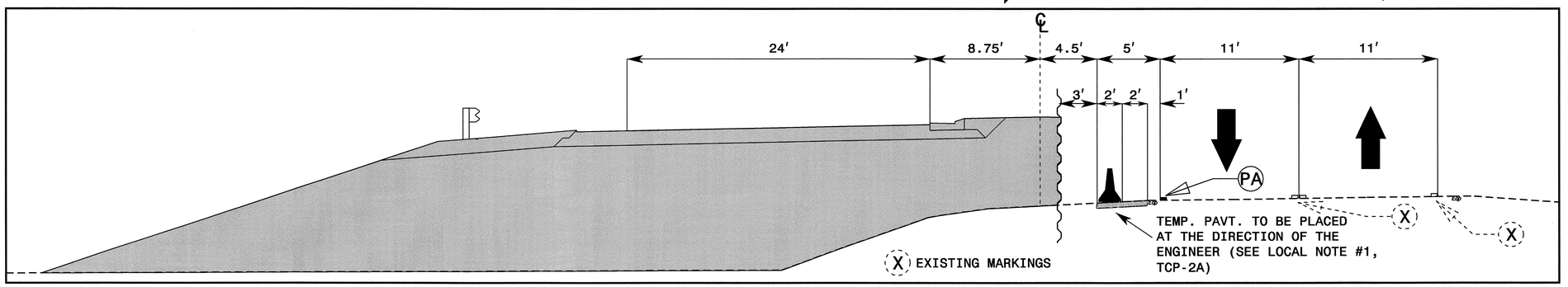
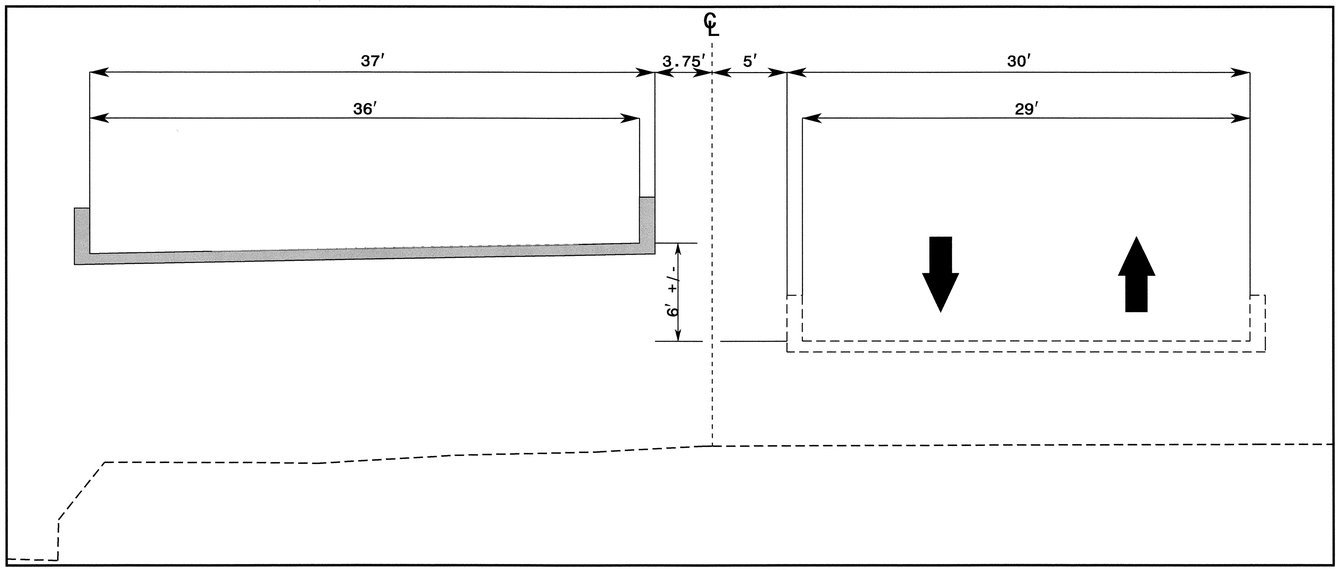
ahayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-9





CUT SECTION F / F'
STA. 429+00 -L-



CUT SECTION H / H'
STA. 434+00 -L-

NOTE: FOR TRANSITION FROM PORTABLE CONCRETE BARRIER TO GUARDRAIL [1] AND FROM GUARDRAIL TO EXISTING BRIDGE RAILING, SEE DETAIL FOR TEMPORARY ANCHOR UNIT TYPE W-BEAM IN THE ROADWAY PLANS

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.

2/19/08

PHASE I DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

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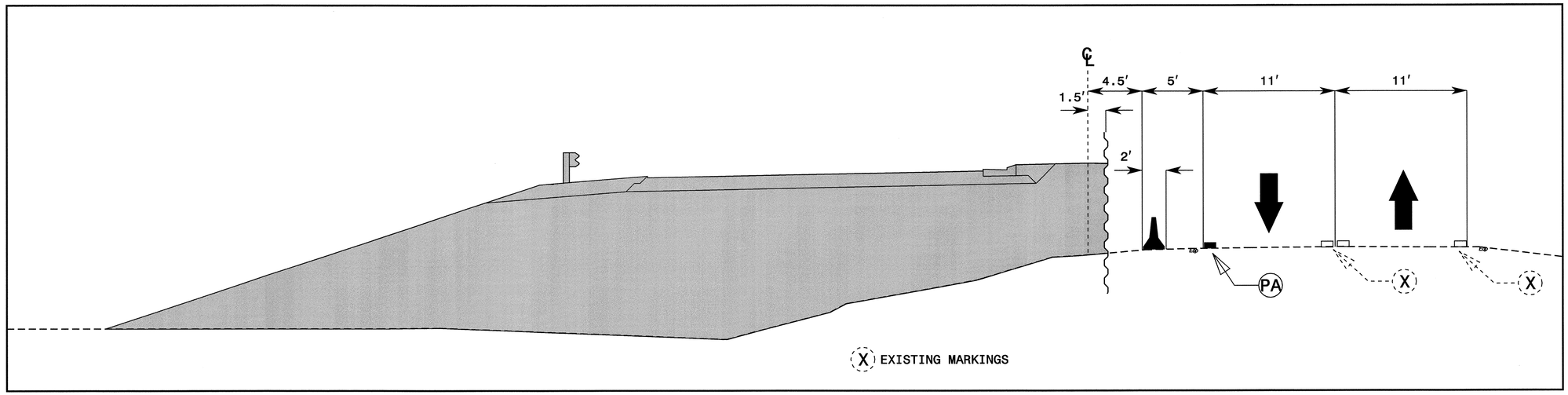
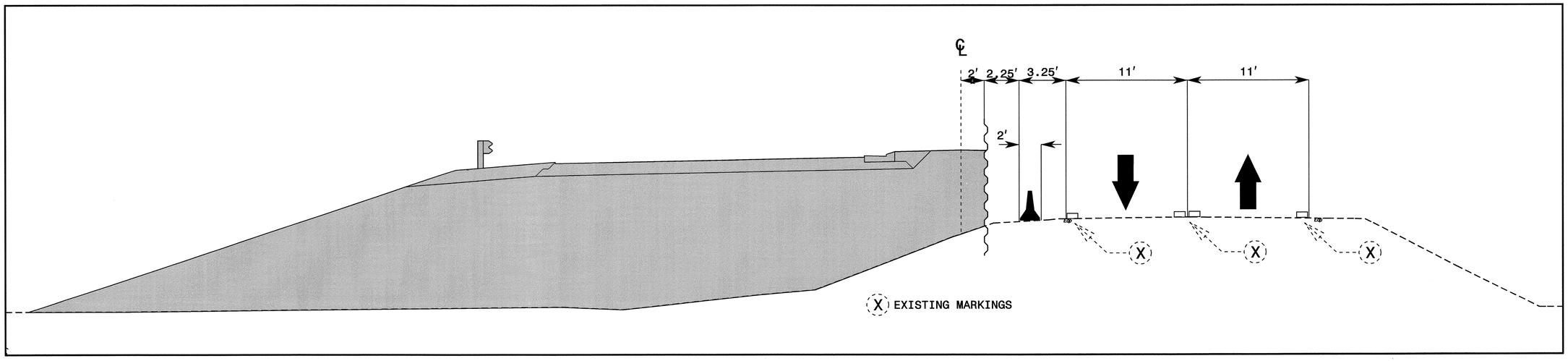
AT WZTC2242I

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-10



CUT SECTION G / G′
STA. 432+00 -L-



CUT SECTION I / I′
STA. 436+50 -L-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE I DETAIL

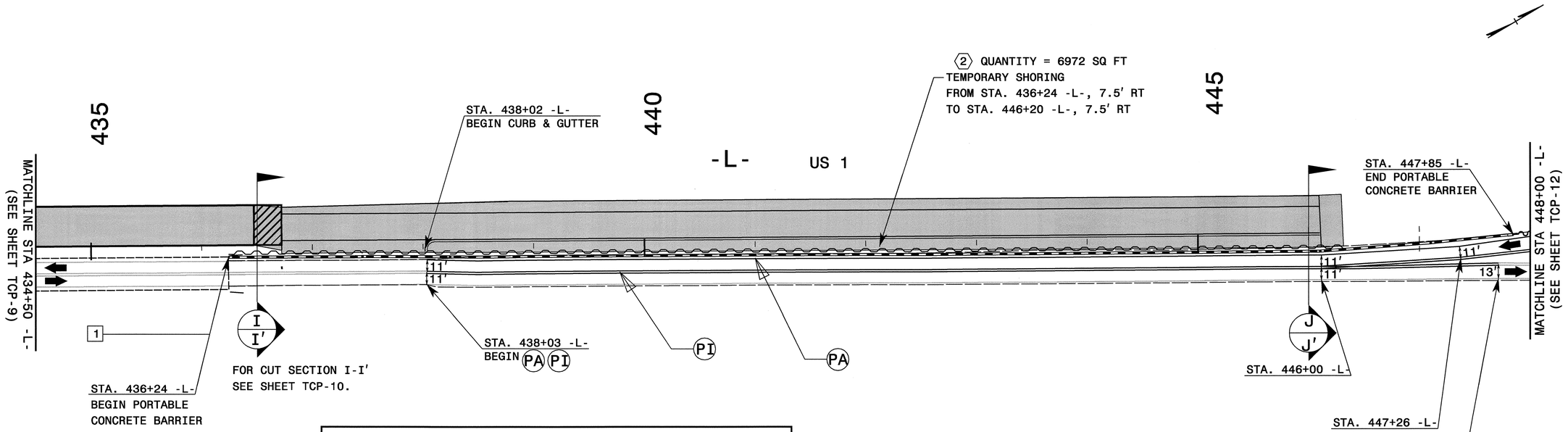
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — WORK ZONE TRAFFIC CONTROL UNIT

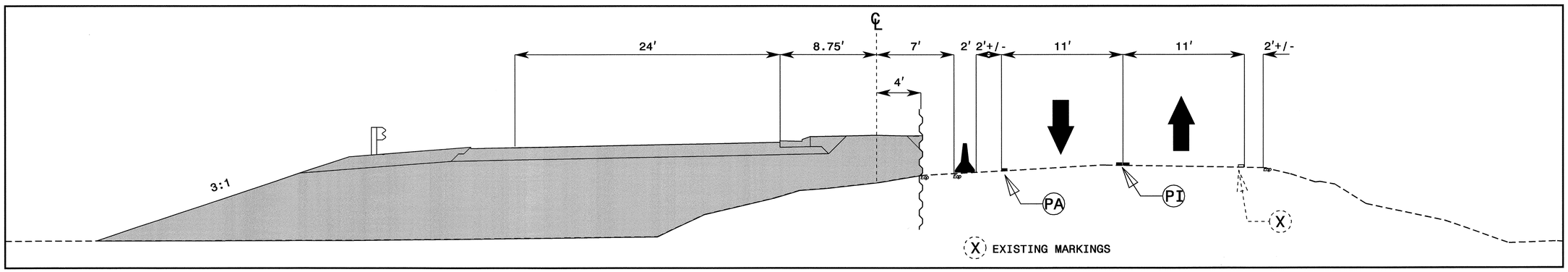
REVISIONS	
CADD FILE	

19-FEB-2008 09:25
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase I\R-2502B_TC_TCP_PHI_10.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-11



NOTE: FOR TRANSITION FROM PORTABLE CONCRETE BARRIER TO GUARDRAIL
1 AND FROM GUARDRAIL TO EXISTING BRIDGE RAILING, SEE DETAIL
FOR TEMPORARY ANCOHOR UNIT TYPE W-BEAM IN THE ROADWAY PLANS



CUT SECTION J / J'
STA. 446+00 -L-

——— : PROPOSED PAVEMENT MARKING LINE
——— : EXISTING PAVEMENT MARKING LINE
: QA : QD : QG
: QB : QE
: QC : QF
: EXISTING PAVEMENT MARKING SYMBOL

2 SEE SHEET TCP-4 FOR TEMPORARY SHORING DATA

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: DATE:

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. — 1/19/08

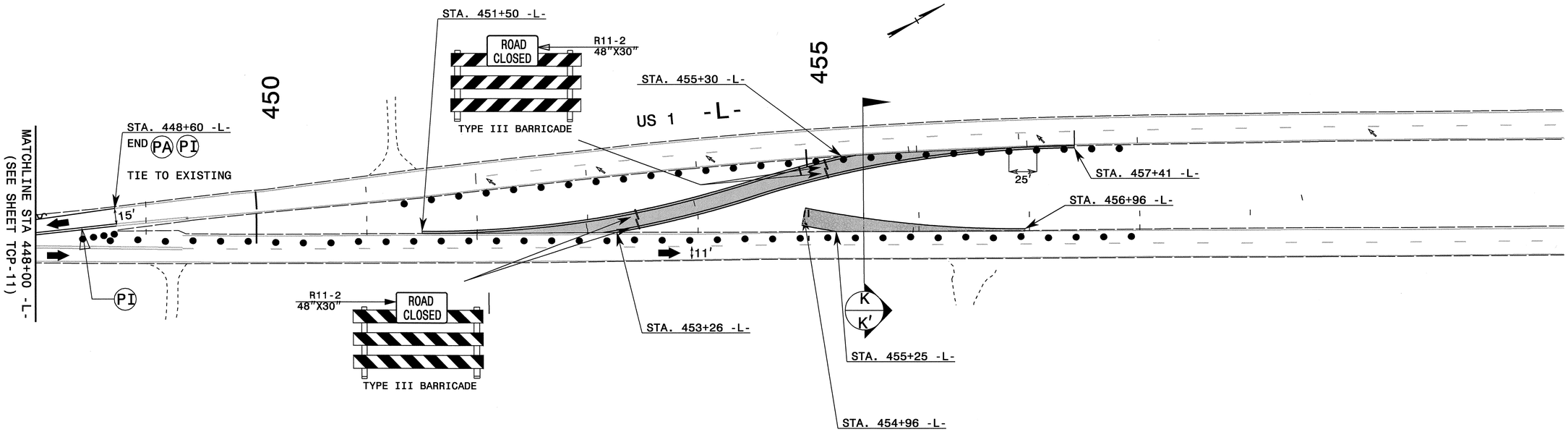
PHASE I DETAIL

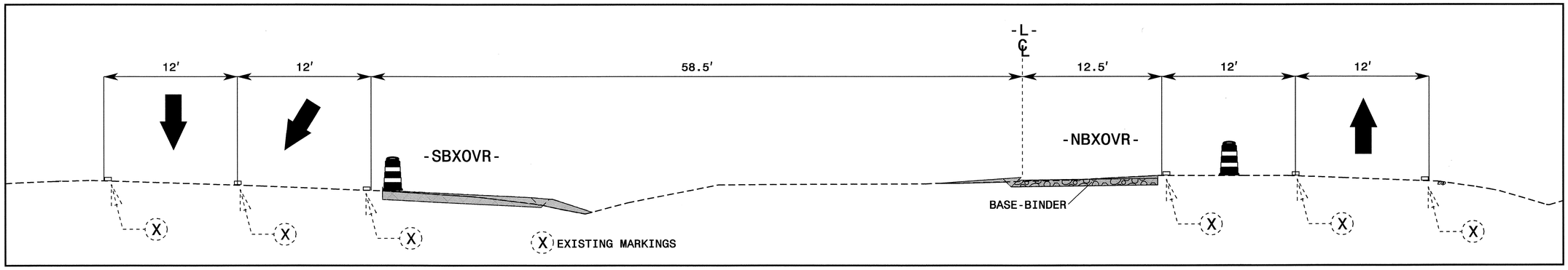
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

19-FEB-2008 09:24
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase I\R-2502B_TC_TCP_PHI_II.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-12





CUT SECTION K / K' STA.455+50 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

REMOVAL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE I DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

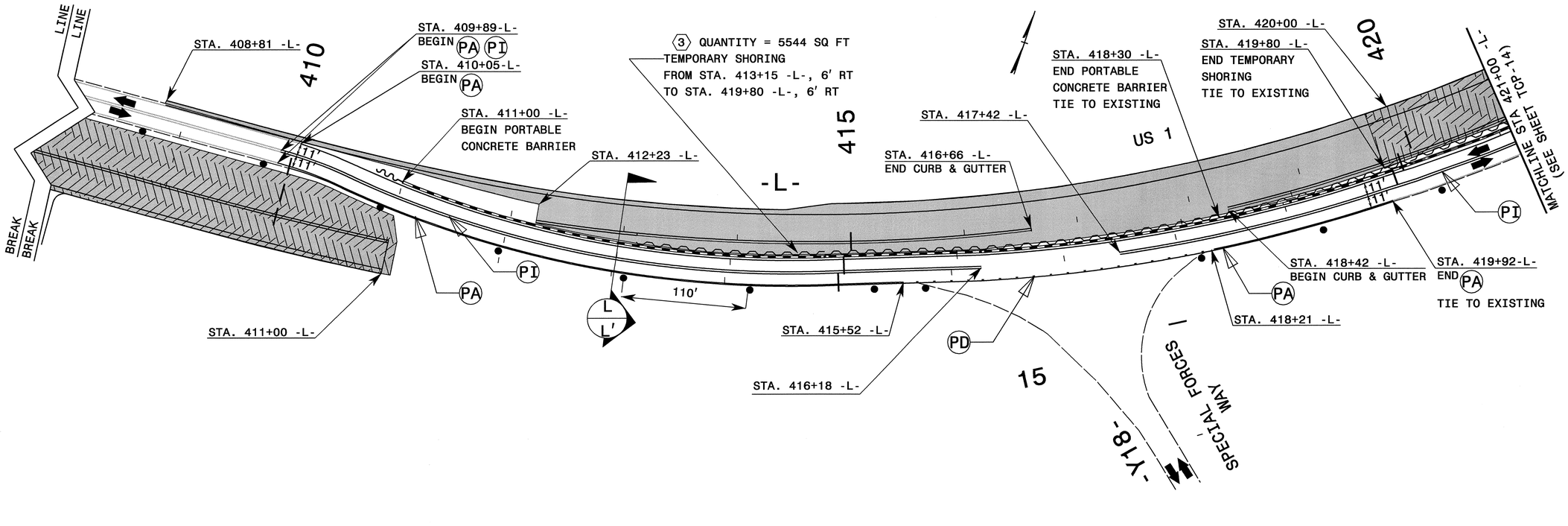
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

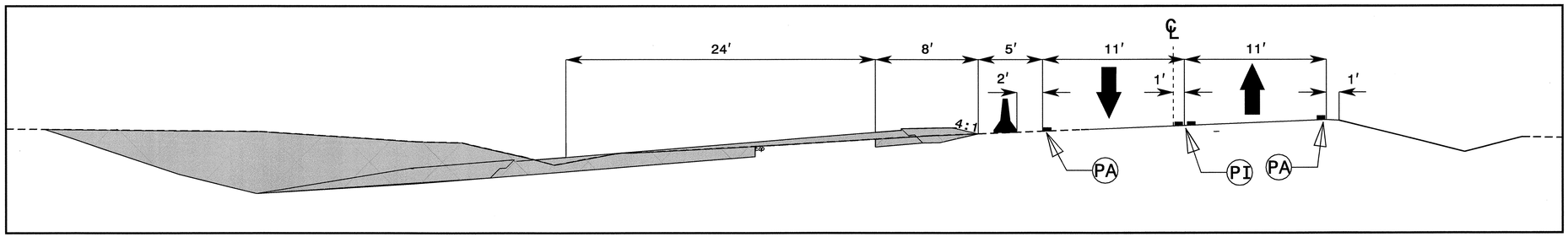
REVISIONS

CADD FILE

19-FEB-2008 09:23
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase I\R-2502B_TC_TCP_PHI_02.dgn
dhayes
AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-13





CUT SECTION $\frac{L}{L'}$
STA. 413+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE
—— : EXISTING PAVEMENT MARKING LINE
↰ : QA ↰ : QD ↰ : QG
↱ : QB ↱ : QE
↑ : QC ↑ : QF
↱ : EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

3 SEE SHEET TCP-4 FOR TEMPORARY SHORING DATA

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. WOOLARD JR.

2/19/08

PHASE II DETAIL

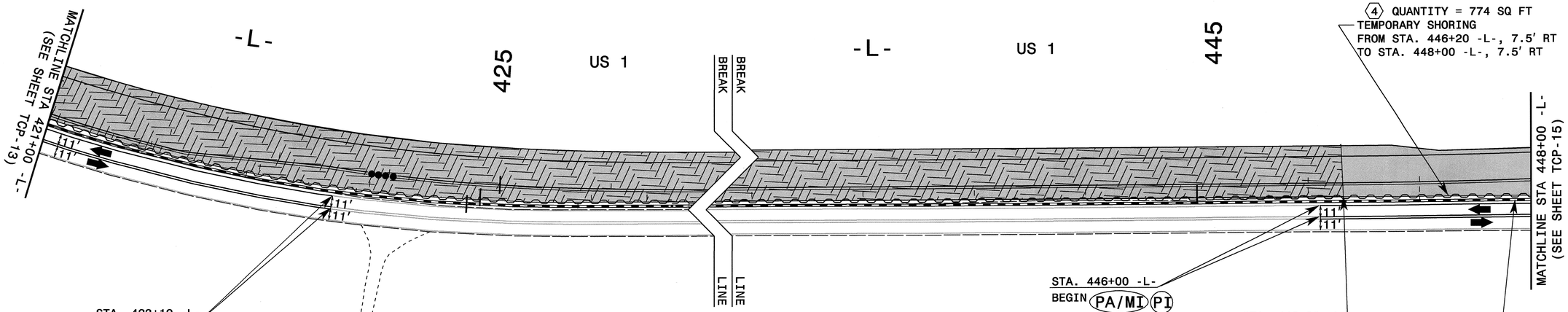
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC CONTROL UNIT

REVISIONS	
CADD FILE	

19-FEB-2008 09:22
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_13.dgn
ahayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-14



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

4 SEE SHEET TCP-4 FOR TEMPORARY SHORING DATA

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.

2/19/08

PHASE II DETAIL

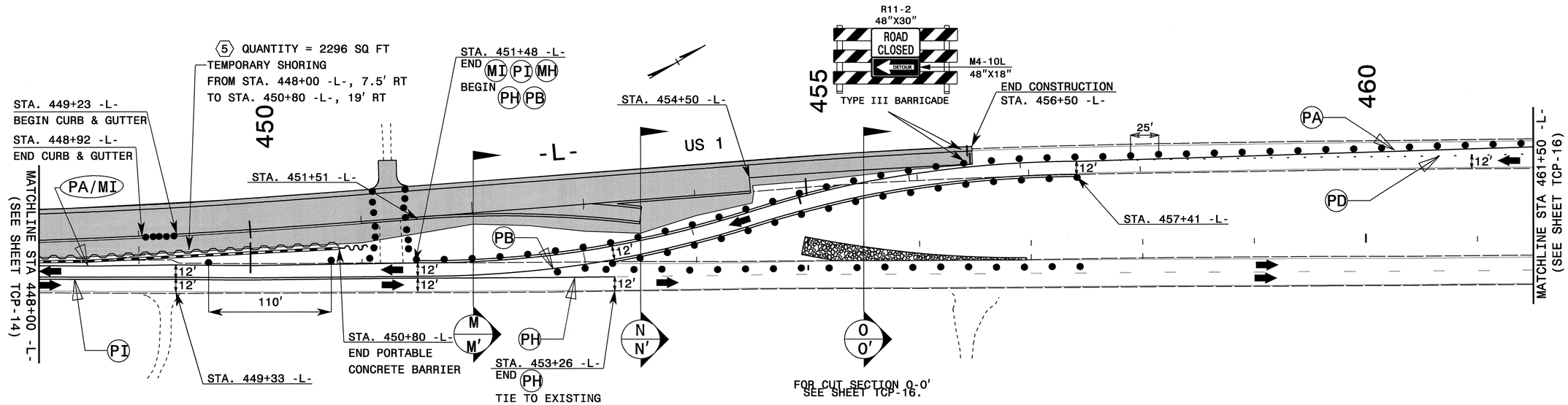
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

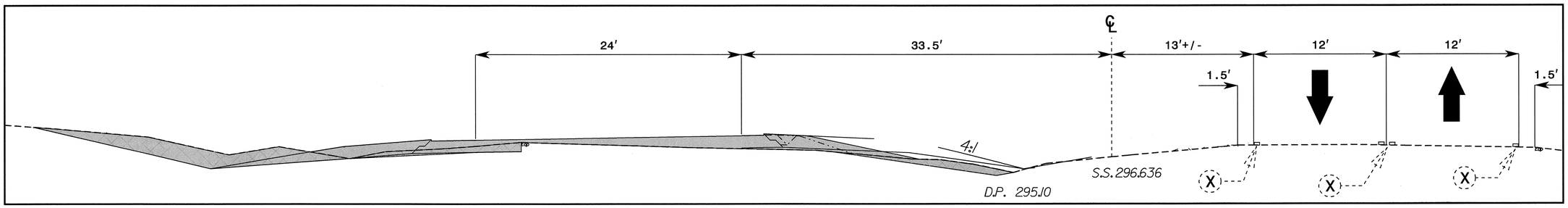
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS	
CADD FILE	

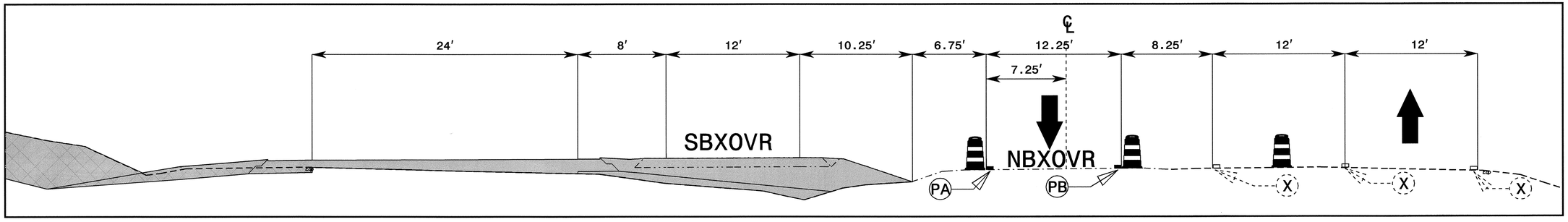
19-FEB-2008 09:22
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_14.dgn
dhayes AT WZTC22424I

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-15





CUT SECTION M / M'
STA. 452+00 -L-



CUT SECTION N / N'
STA. 453+50 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

5 SEE SHEET TCP-4 FOR TEMPORARY SHORING DATA

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. — 2/19/08

PHASE II DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

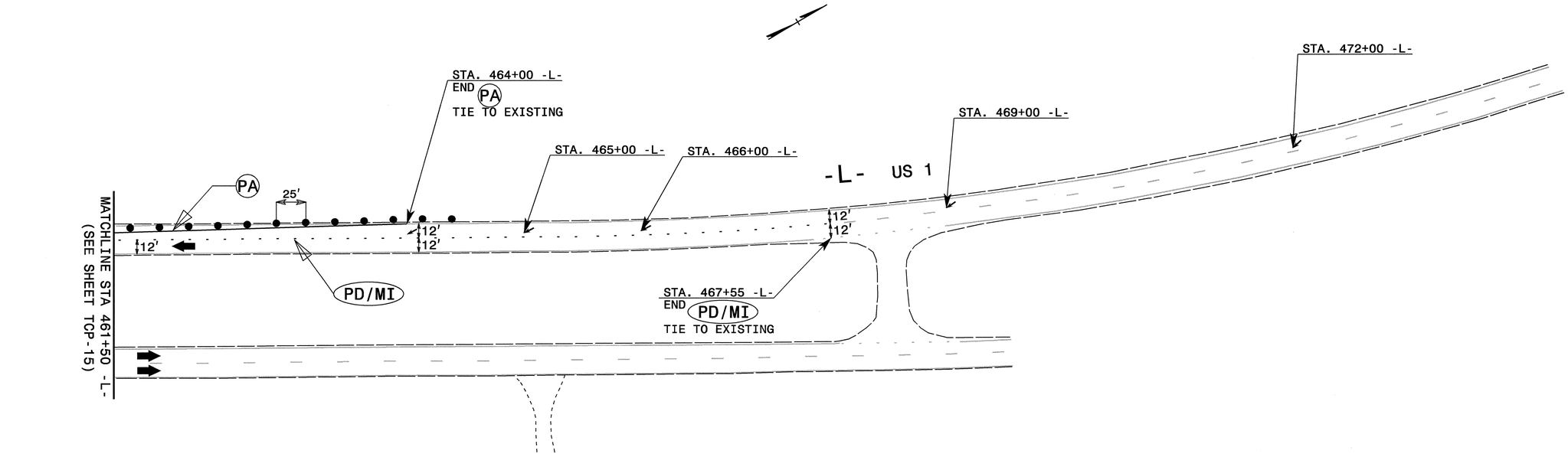
DIVISION OF HIGHWAYS — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — TRAFFIC ENGINEERING BRANCH

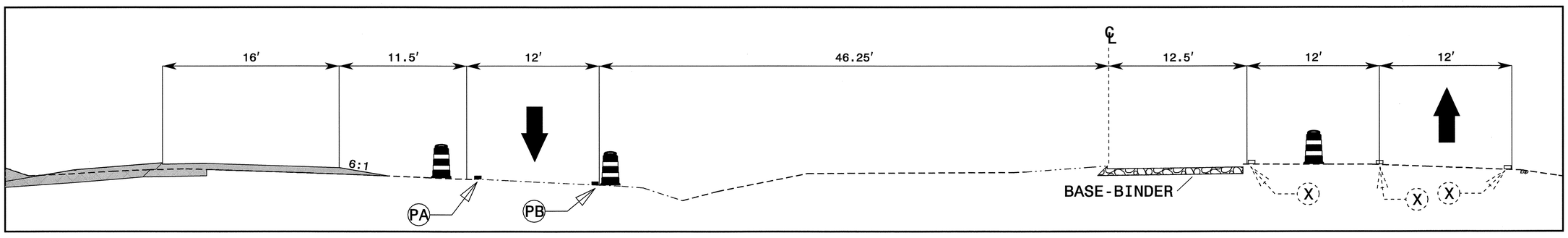
REVISIONS

CADD FILE

19-FEB-2008 09:21
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_I5.dgn
dhayes
AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-16





CUT SECTION 0 / STA.455+50 -L- 0'

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

2/19/08

PHASE II DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

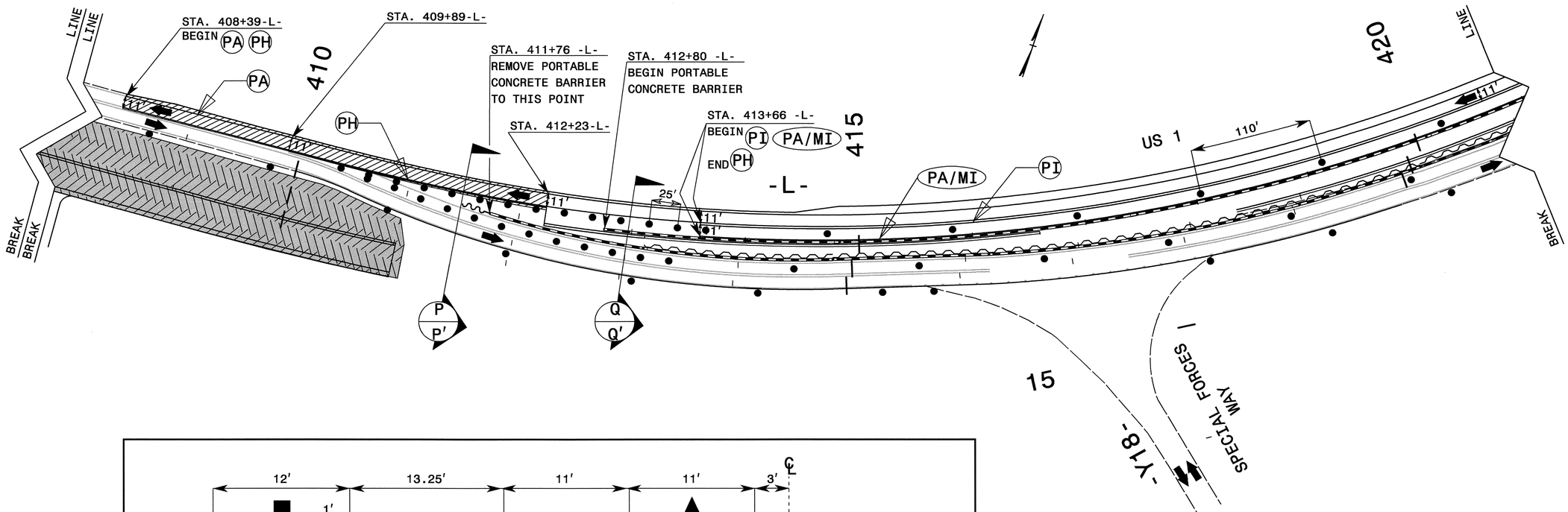
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC ENGINEER

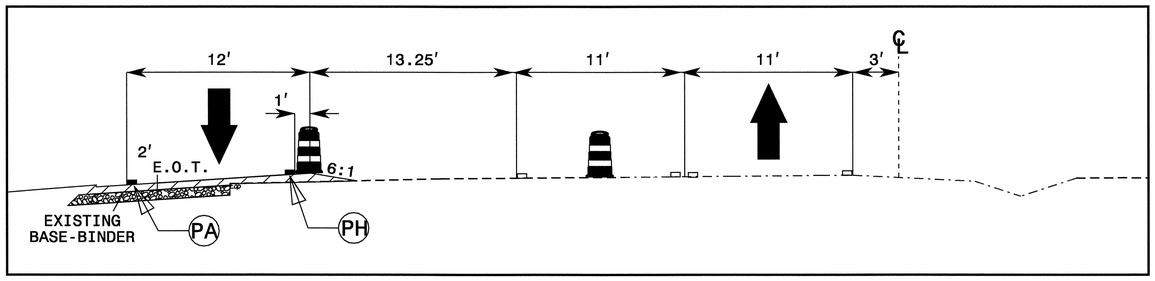
REVISIONS

CADD FILE

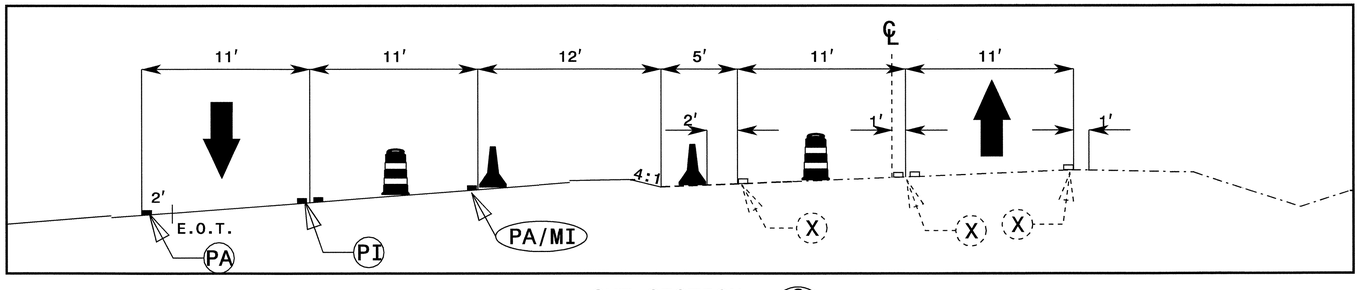
19-FEB-2008 09:21
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_16.dgn
ahayes AT WZ1C22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-17





CUT SECTION P / P' STA. 411+50 -L-



CUT SECTION Q / Q' STA. 413+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

WEDGING

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

2/19/08

PHASE II DETAIL

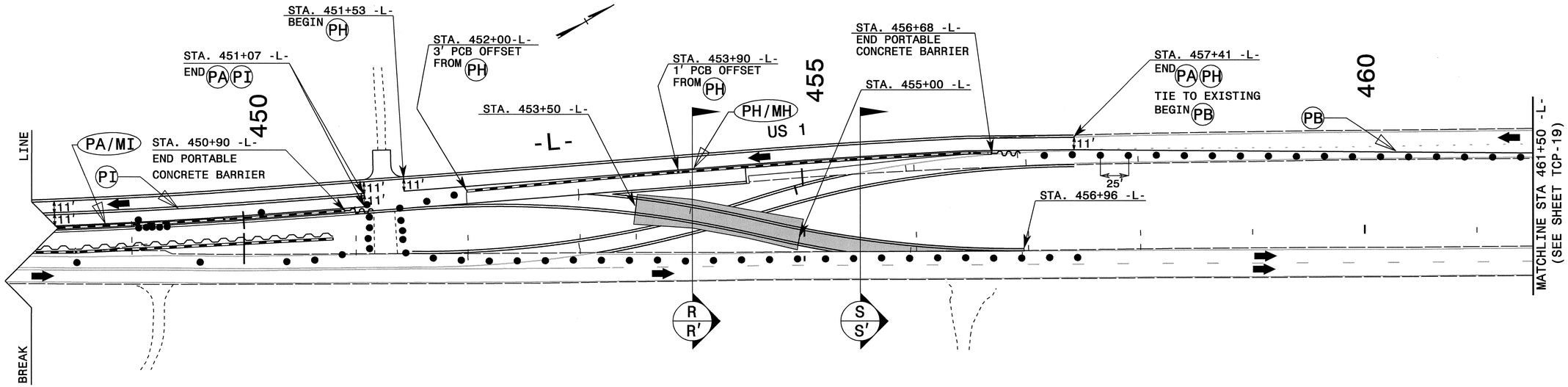
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

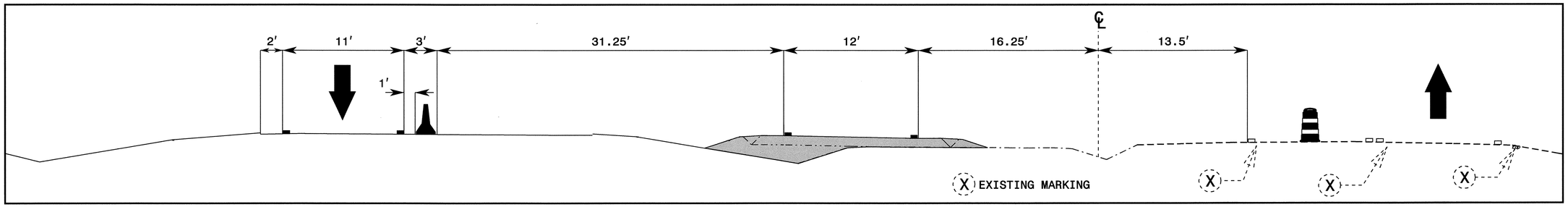
REVISIONS

CADD FILE

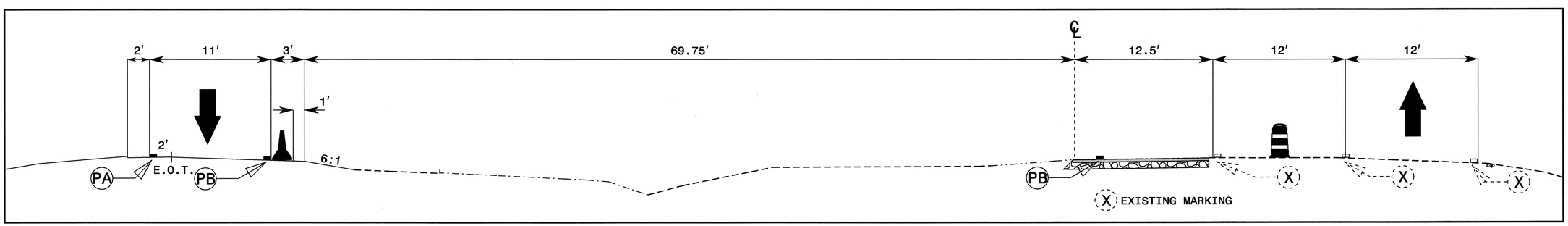
19-FEB-2008 09:19
\\Dot\dfsroot0\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_17.dgn
dhayes
AT WZTC22424I

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-18





CUT SECTION R / R' STA. 454+00 -L-



CUT SECTION S / S' STA. 455+50 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

2/19/08

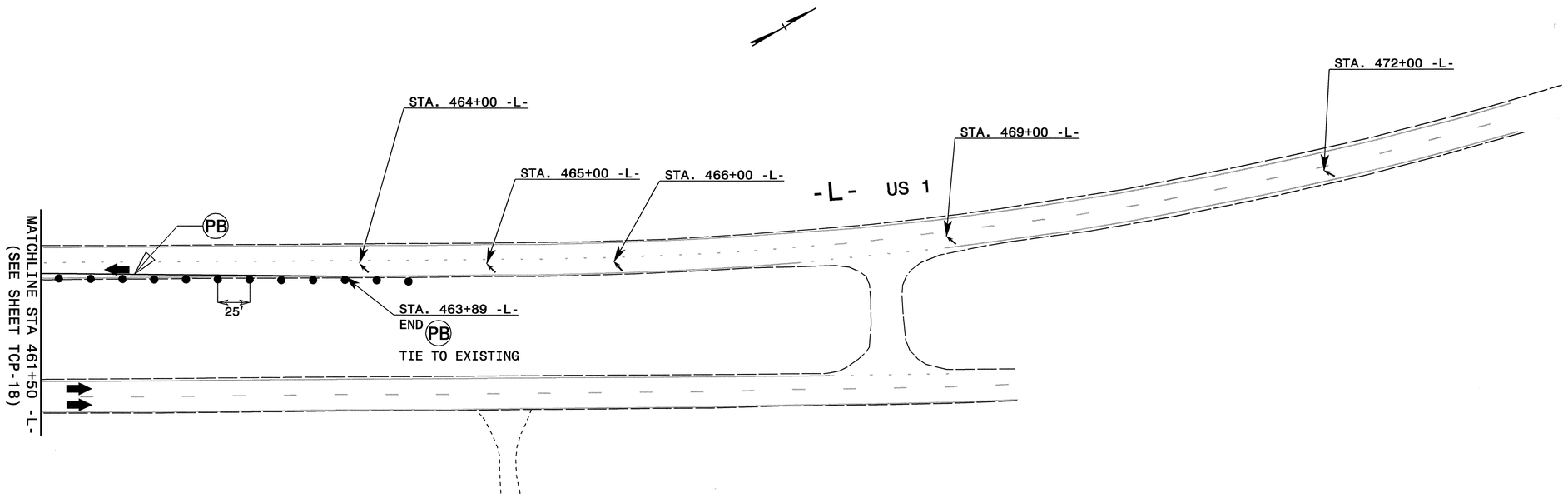
PHASE II DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

19-FEB-2008 09:18
\\Dot\dfsroot\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase II\R-2502B_TC_TCP_PHII_18.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-19



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↰ : QD ↰ : QG

↱ : QB ↱ : QE

↑ : QC ↑ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. WOOLARD JR.

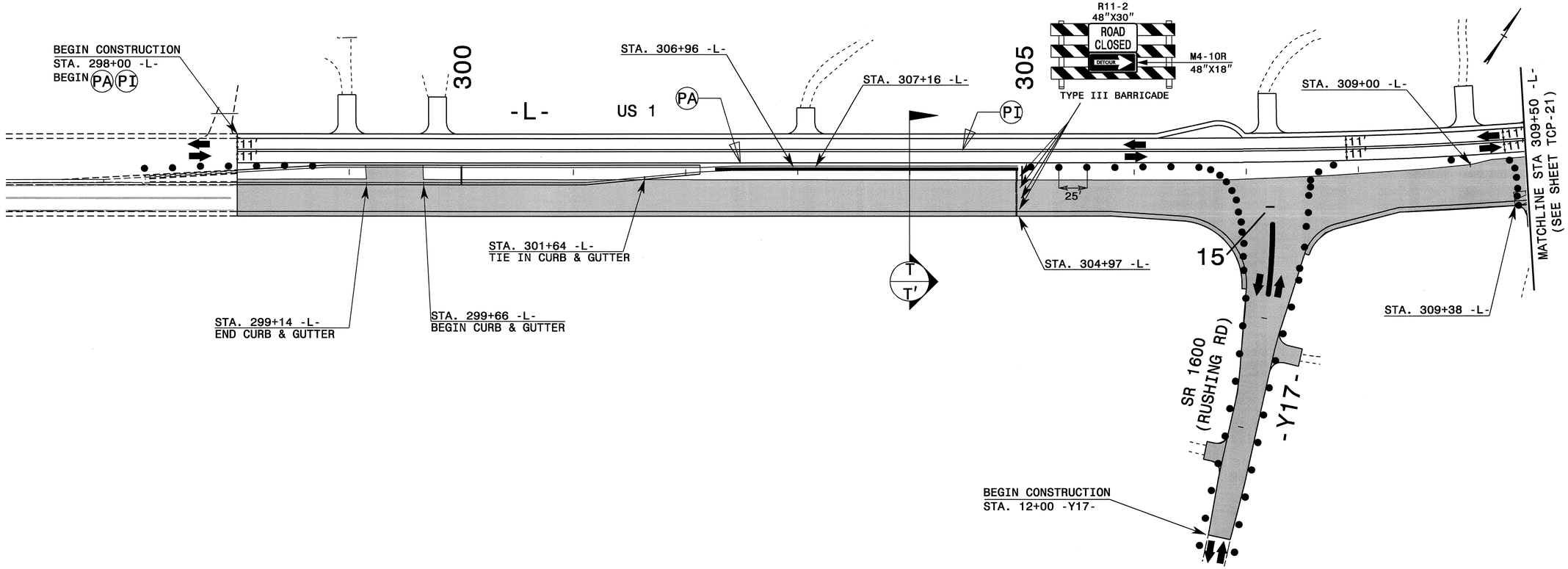
2/19/08

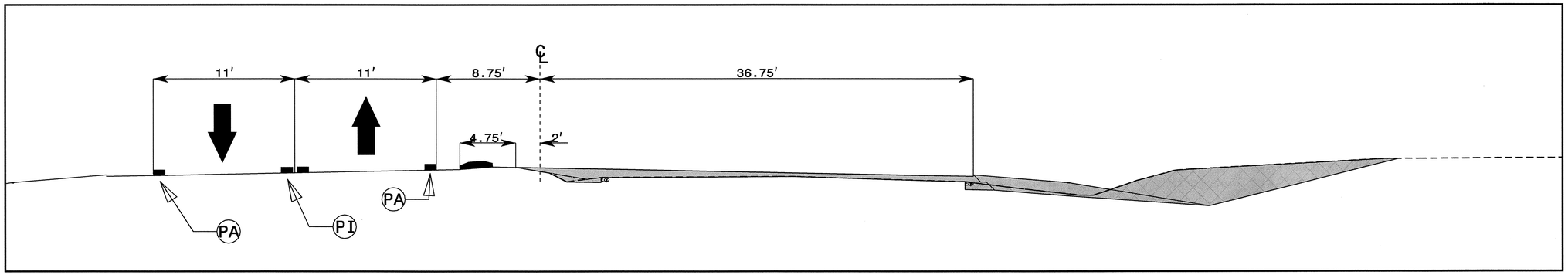
PHASE II DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-20





CUT SECTION M / M'
STA.304+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE
—— : EXISTING PAVEMENT MARKING LINE
↰ : QA ↰ : QD ↰ : QG
↱ : QB ↱ : QE
↑ : QC ↑ : QF
↱ : EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. 2/19/08

PHASE III DETAIL

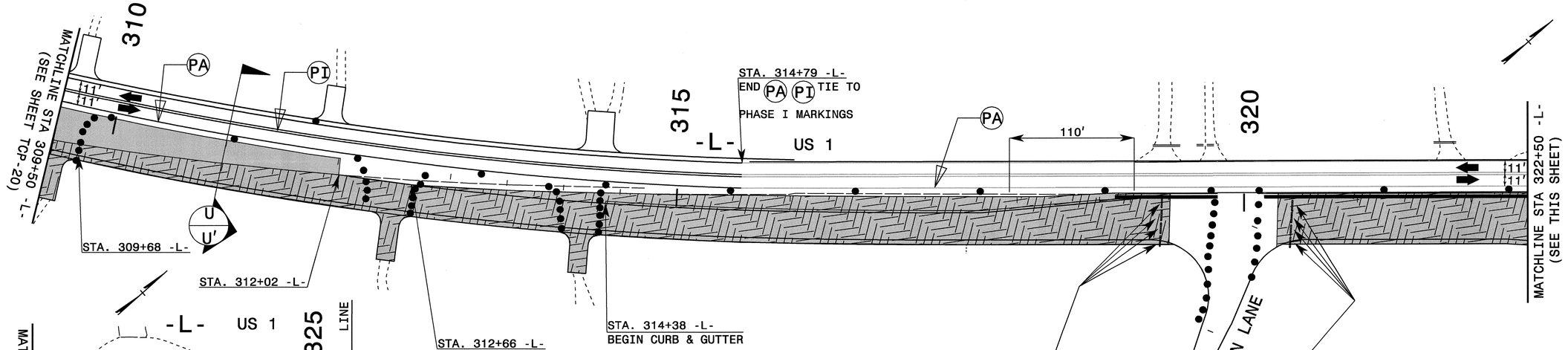
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

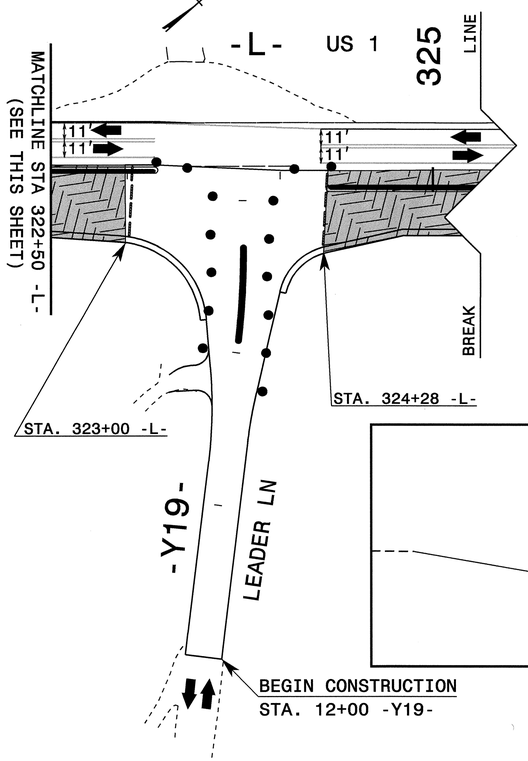
REVISIONS

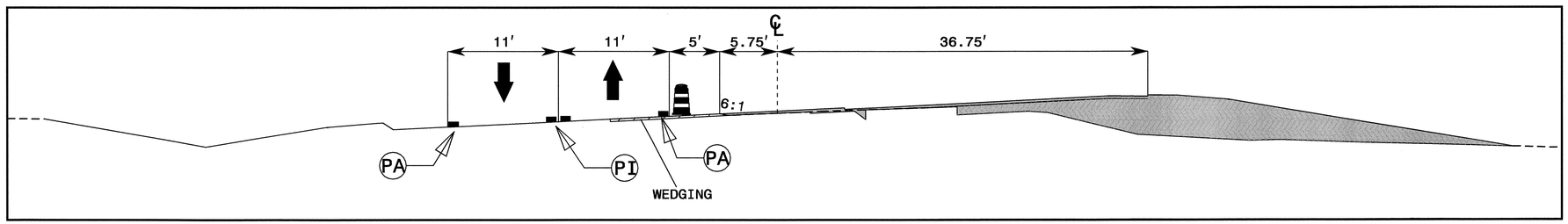
CADD FILE

19-FEB-2008 09:17
\\Dot\dfsroot01\Proj\TIPProjects-RVR2502B\traffic\trafficcontrol\tcp\Phase III\R-2502B_TC_TCP_PHIII_20.dgn
ahayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-21







CUT SECTION (U / U') STA. 311+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR. — 2/19/08

PHASE III DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

19-FEB-2008 09:16
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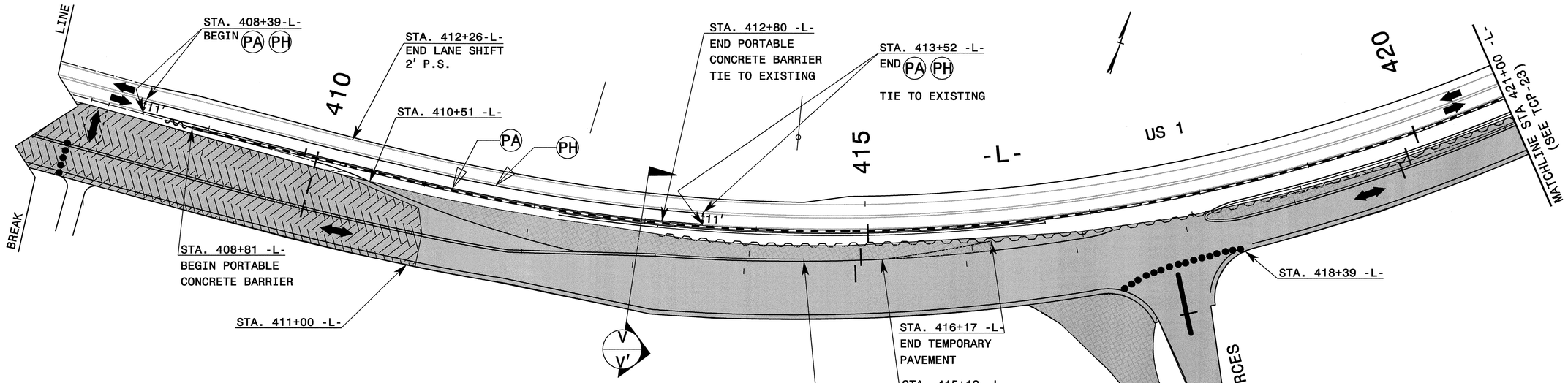
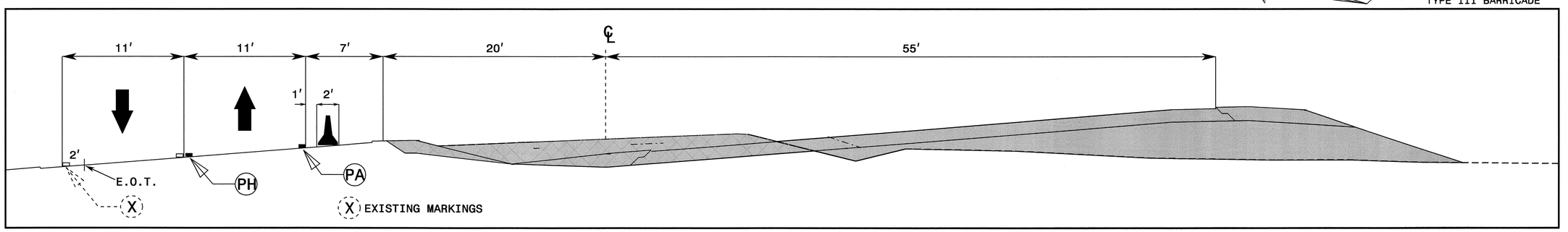
dhayes AT WZTC22424I

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-22





CUT SECTION V / V'
STA. 413+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE
—— : EXISTING PAVEMENT MARKING LINE
: QA : QD : QG
: QB : QE
: QC : QF
: EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION
PAVEMENT REMOVAL
TEMPORARY PAVEMENT

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. WOOLARD JR.

2/19/08

PHASE III DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

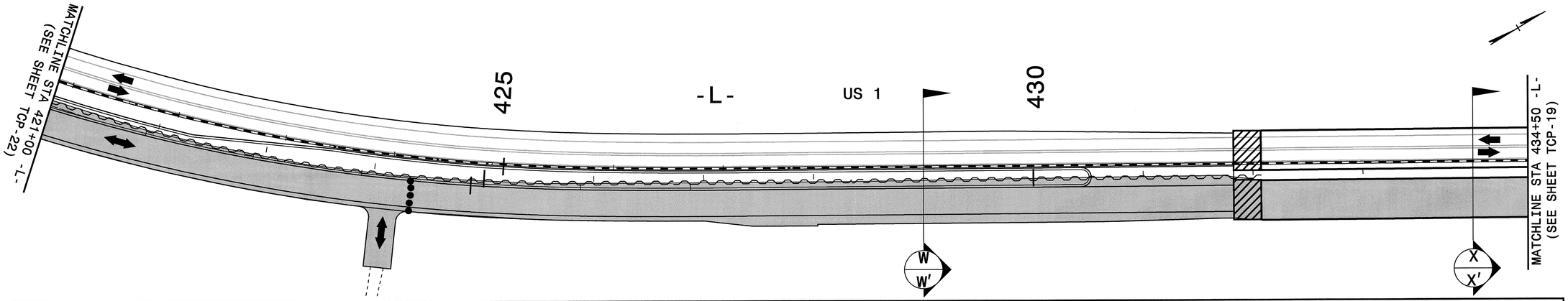
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

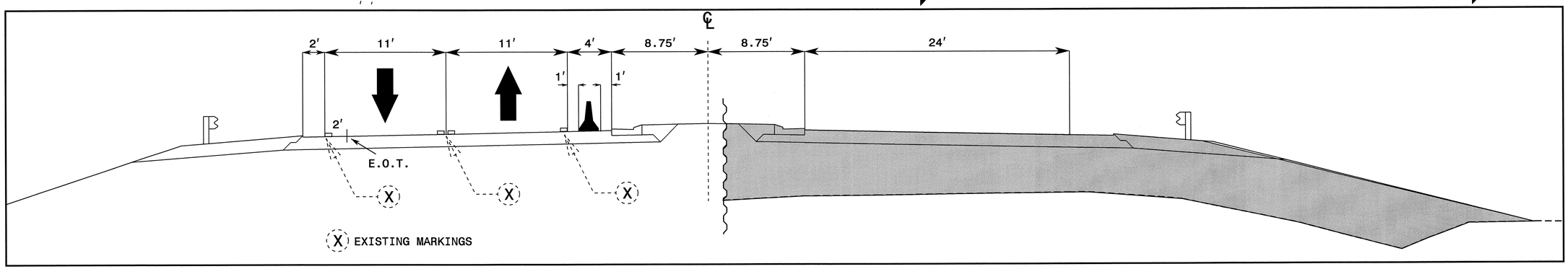
REVISIONS

CADD FILE

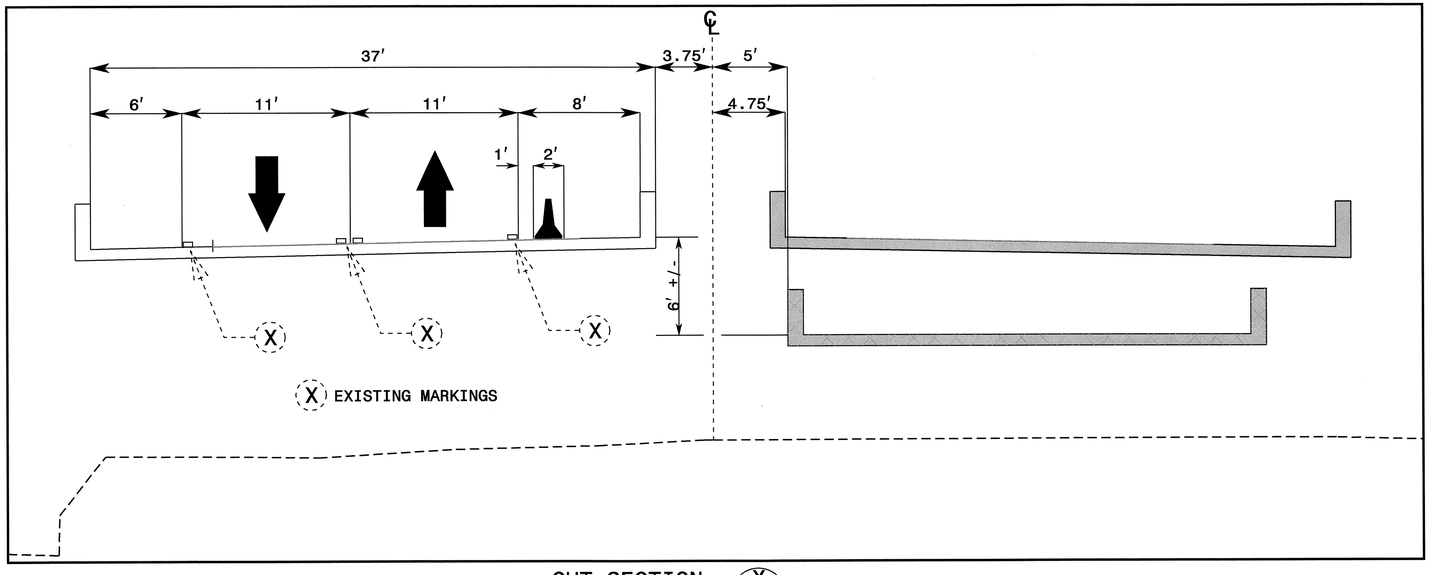
19-FEB-2008 09:15
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\Phase III\R-2502B_TC_TCP_PHIII_22.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-23





CUT SECTION W / W′
STA. 429+00 -L-



CUT SECTION X / X′
STA. 434+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.

2/19/08

PHASE III DETAIL

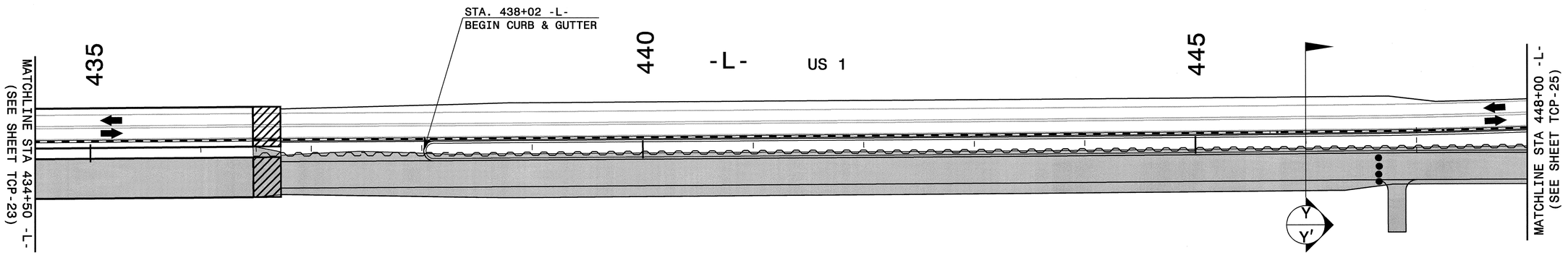
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

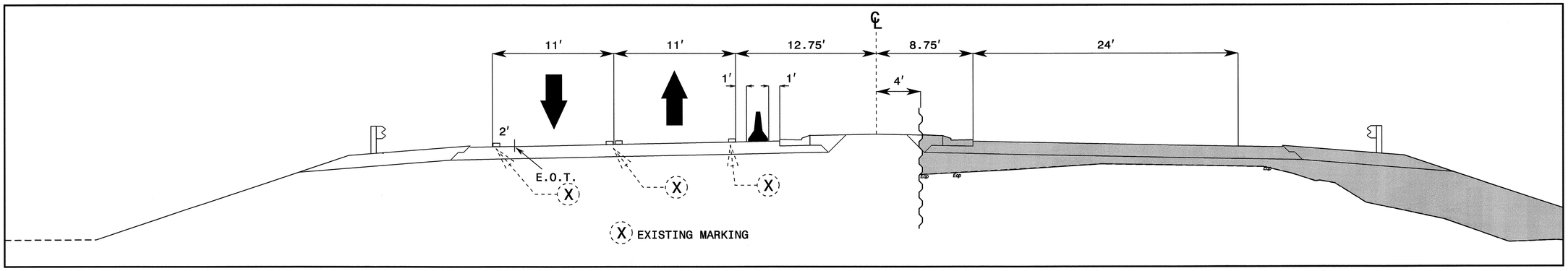
DIVISION OF HIGHWAYS — TRAFFIC ENGINEERING BRANCH — TRAFFIC CONTROL UNIT

REVISIONS	
CADD FILE	

19-FEB-2008 09:15
\\Dot\dfsroot01\Proj\TIPProjects-RW\R2502B\traffic\trafficcontrol\tcp\Phase III\R-2502B_TC_TCP_PHIII_23.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-24





CUT SECTION Y / Y'
STA. 446+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE
—— : EXISTING PAVEMENT MARKING LINE
↰ : QA ↰ : QD ↰ : QG
↱ : QB ↱ : QE
↑ : QC ↑ : QF
↱ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. WOOLARD JR.

2/19/08

PHASE III DETAIL

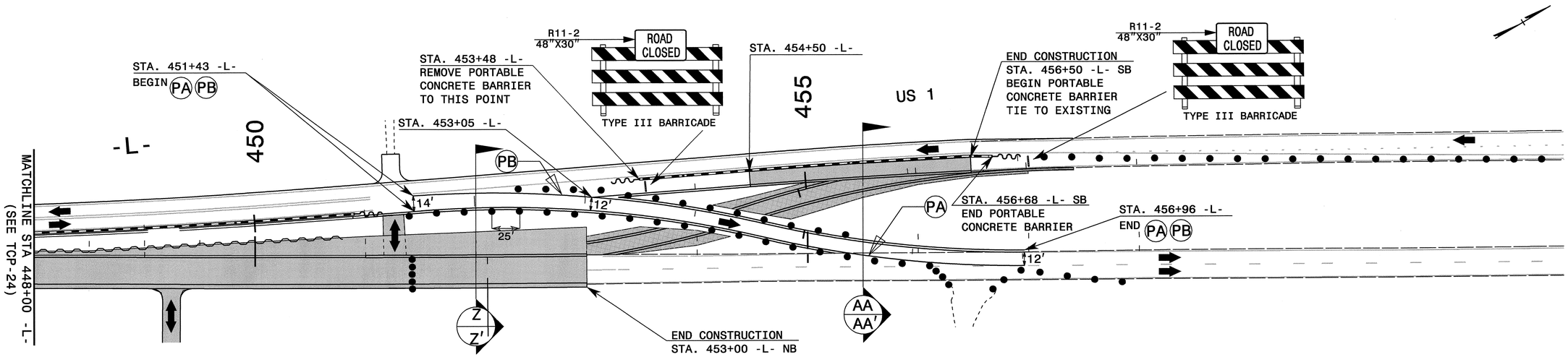
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

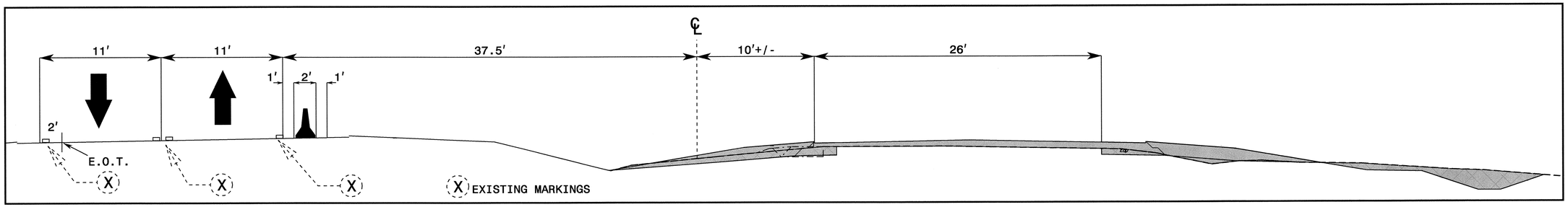
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS	
CADD FILE	

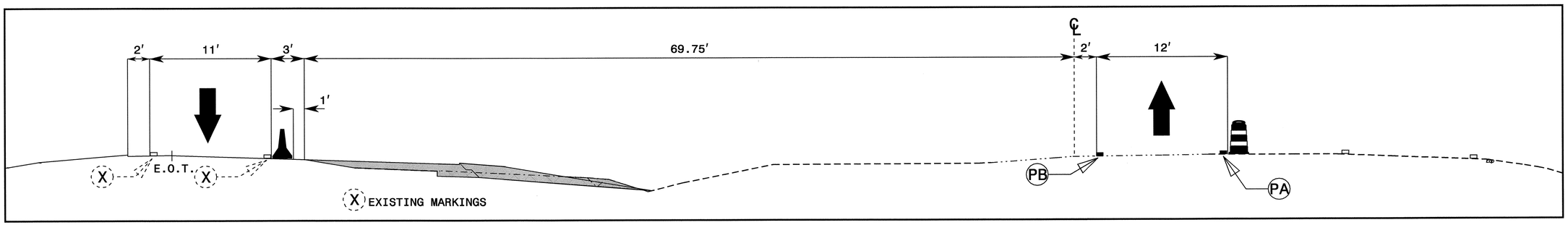
19-FEB-2008 09:14
\\Dot\dfsroot01\Proj\TIPProjects-RVR2502B\traffic\trafficcontrol\tcp\Phase III\R-2502B_TC_TCP_PHIII_24.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-25





CUT SECTION Z / Z'
STA. 452+00 -L-



CUT SECTION AA / AA'
STA. 455+50 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

2/19/08

PHASE III DETAIL

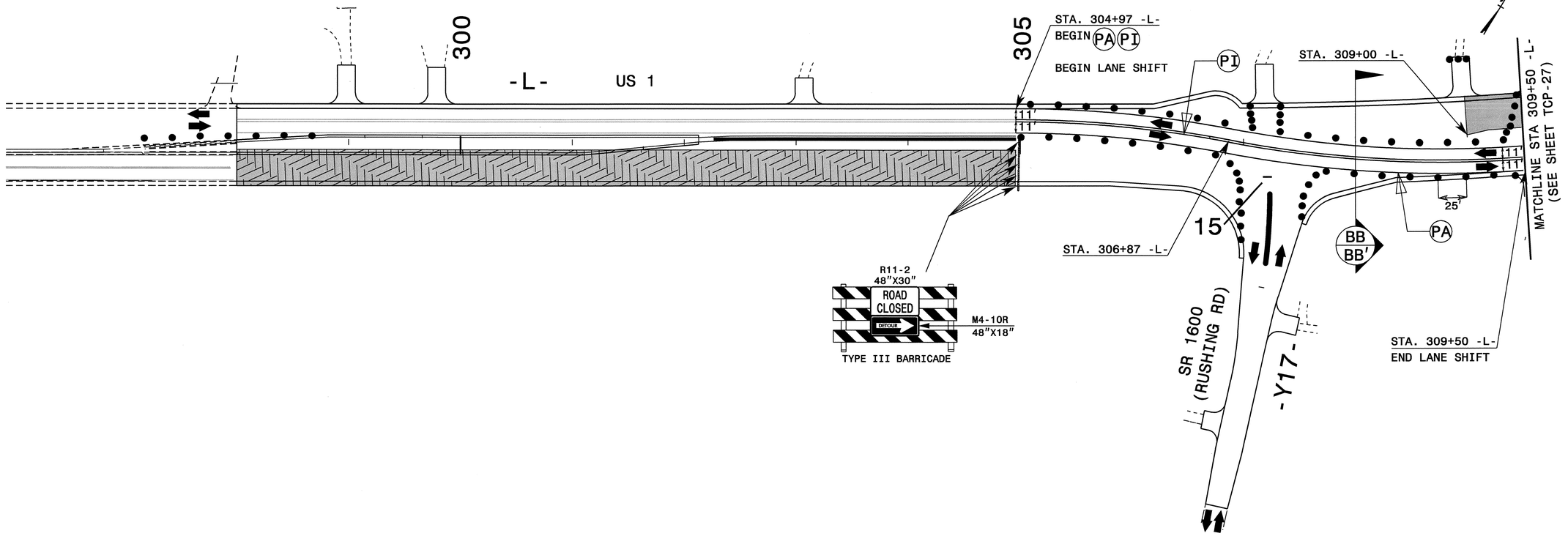
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

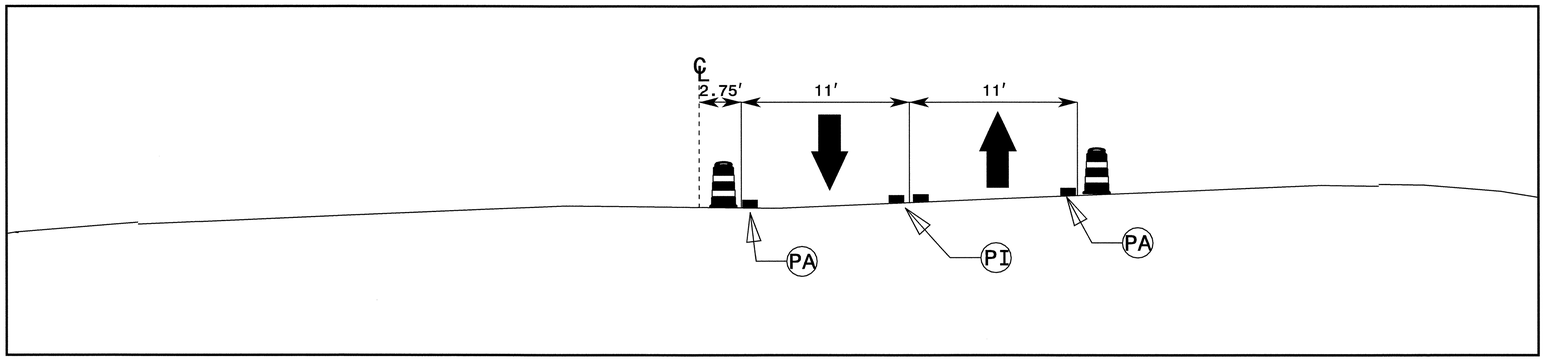
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC CONTROL UNIT

REVISIONS	
CADD FILE	

19-FEB-2008 09:14
\\Dot\dfsroot01\Proj\TIPProjects-RX\R2502B\traffic\trafficcontrol\tcp\Phase III\R-2502B_TC_TCP_PHIII_25.dgn
ahayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-26





CUT SECTION BB / BB' STA.308+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

ON-GOING CONSTRUCTION

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. 2/19/08

PHASE IV DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

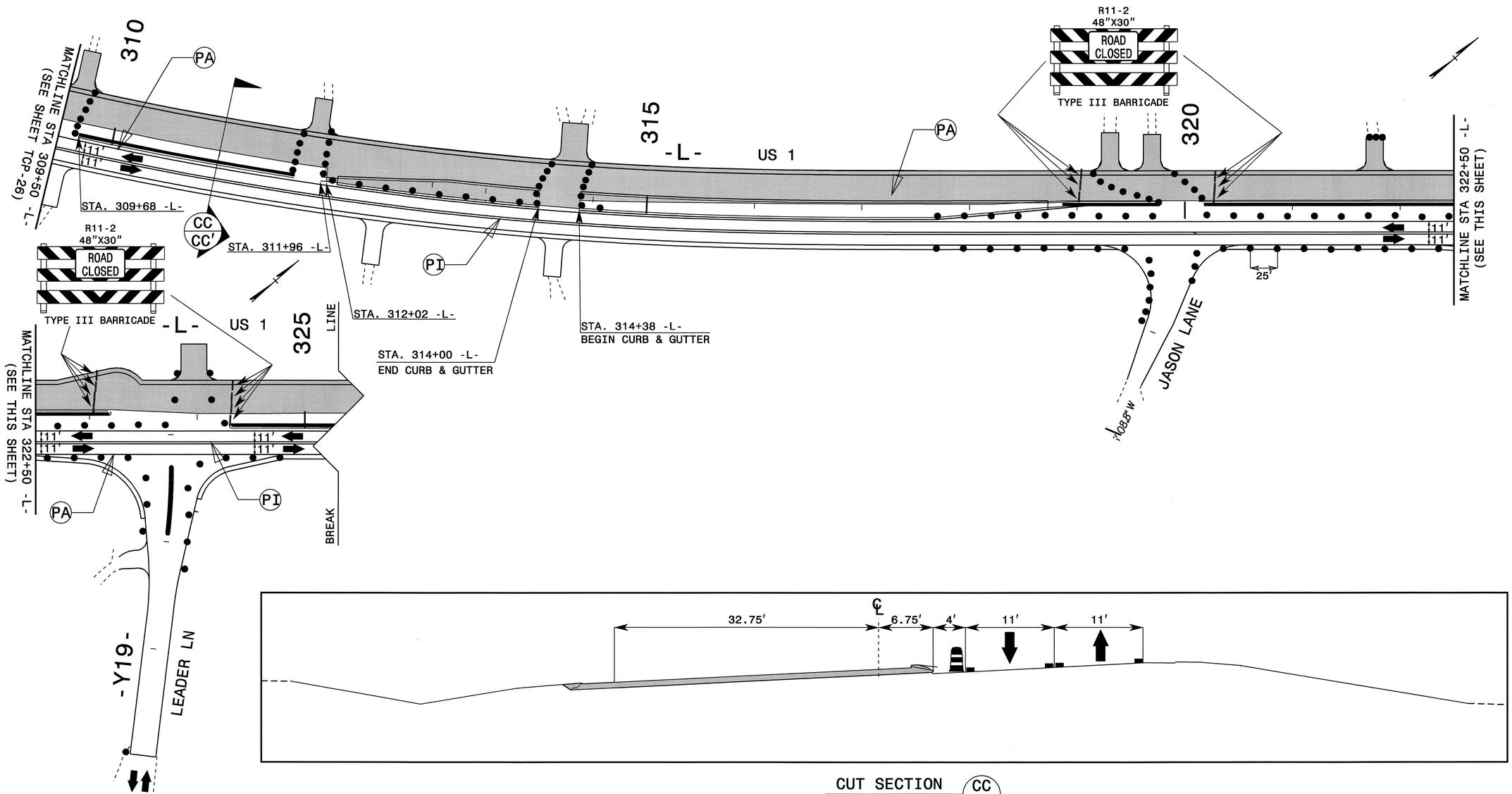
DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS

CADD FILE

19-FEB-2008 09:13
\\Dot\dfsroot01\Proj\TIPProjects-RVR2502B\traffic\trafficcontrol\tcp\PhaseIV\R-2502B_TC_TCP_PHIV_26.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-27



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. 2/19/08

PHASE IV DETAIL

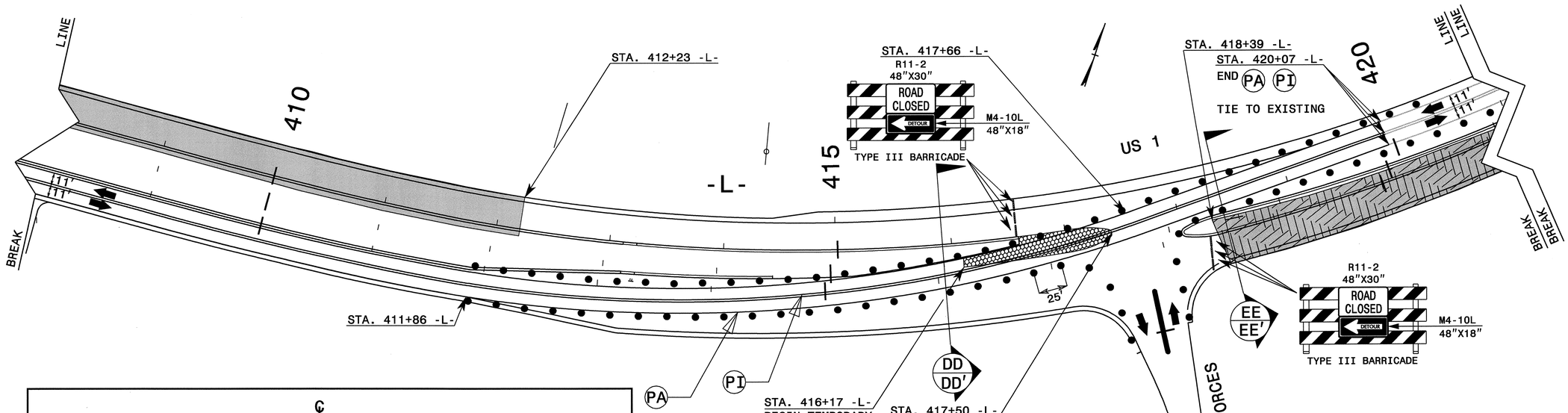
SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

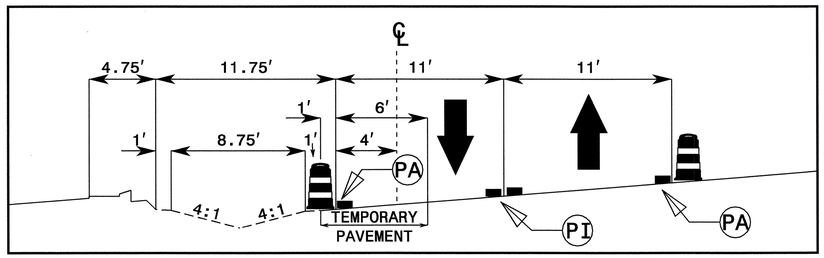
REVISIONS

CADD FILE

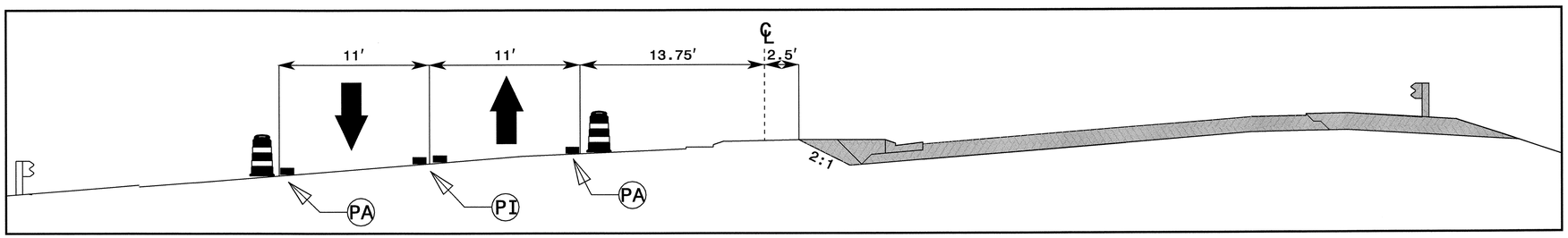
19-FEB-2008 09:13
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\PhaseIV\R-2502B_TC_TCP_PHIV_27.dgn
dhayes AT W21C22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-28





CUT SECTION DD / DD'
STA. 416+00 -L-



CUT SECTION EE / EE'
STA. 418+50 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↰ : QD ↰ : QG

↱ : QB ↱ : QE

↑ : QC ↑ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

2/19/08

PHASE IV DETAIL

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

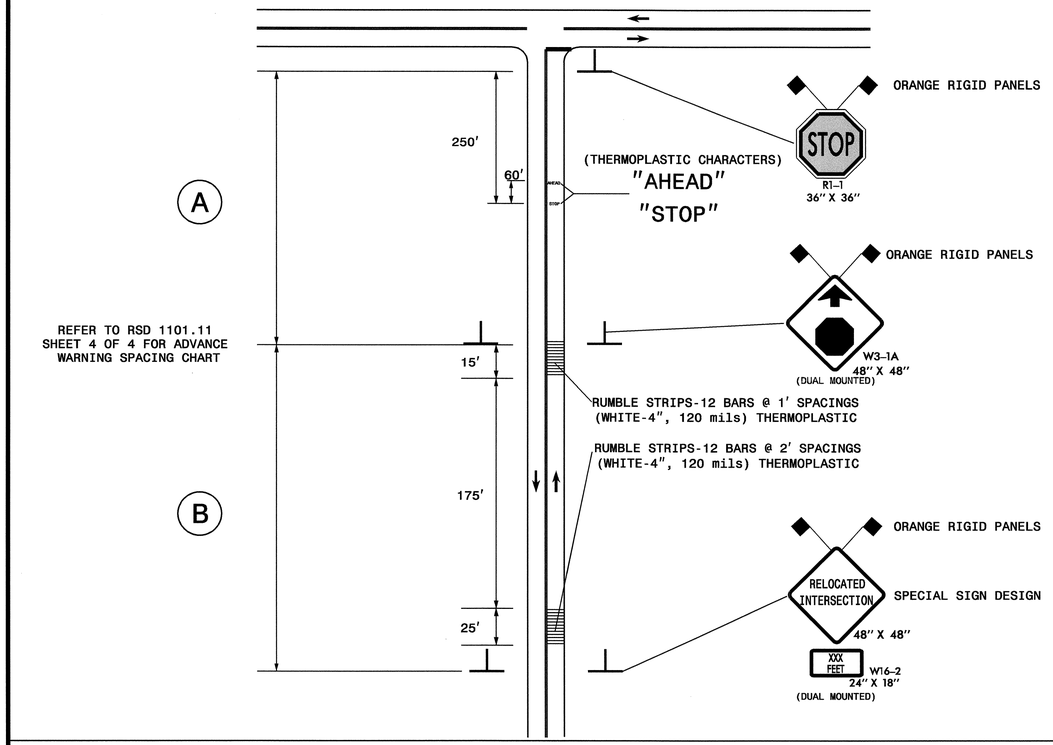
REVISIONS

CADD FILE

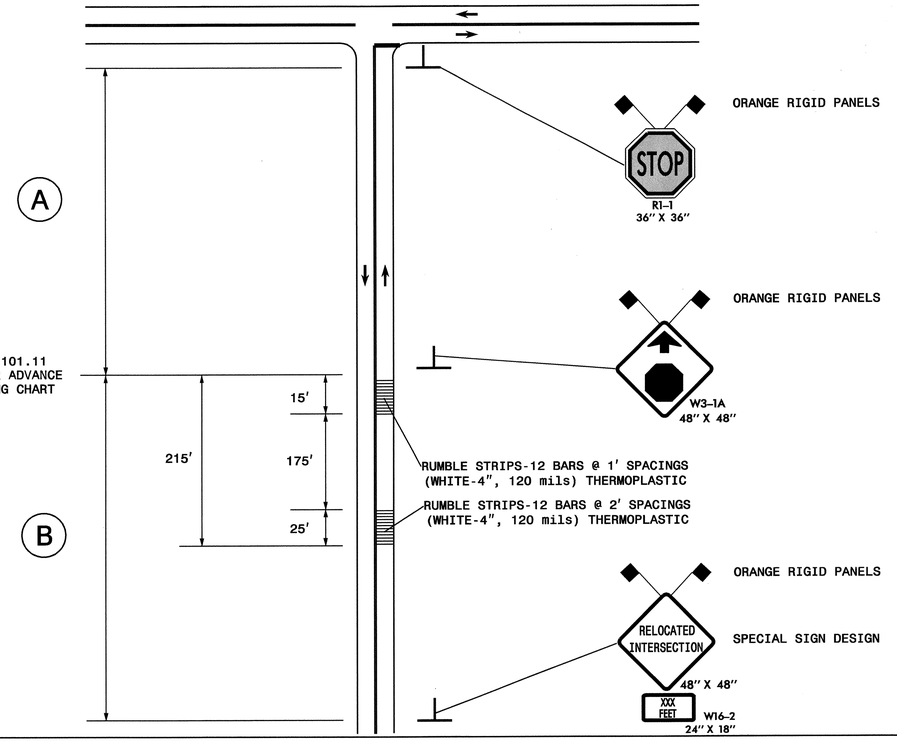
19-FEB-2008 09:12
\\Dot\dfsrgoot0\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\PhaseIV\R-2502B_TC_TCP_PHIV_28.dgn
dhayes AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-28A

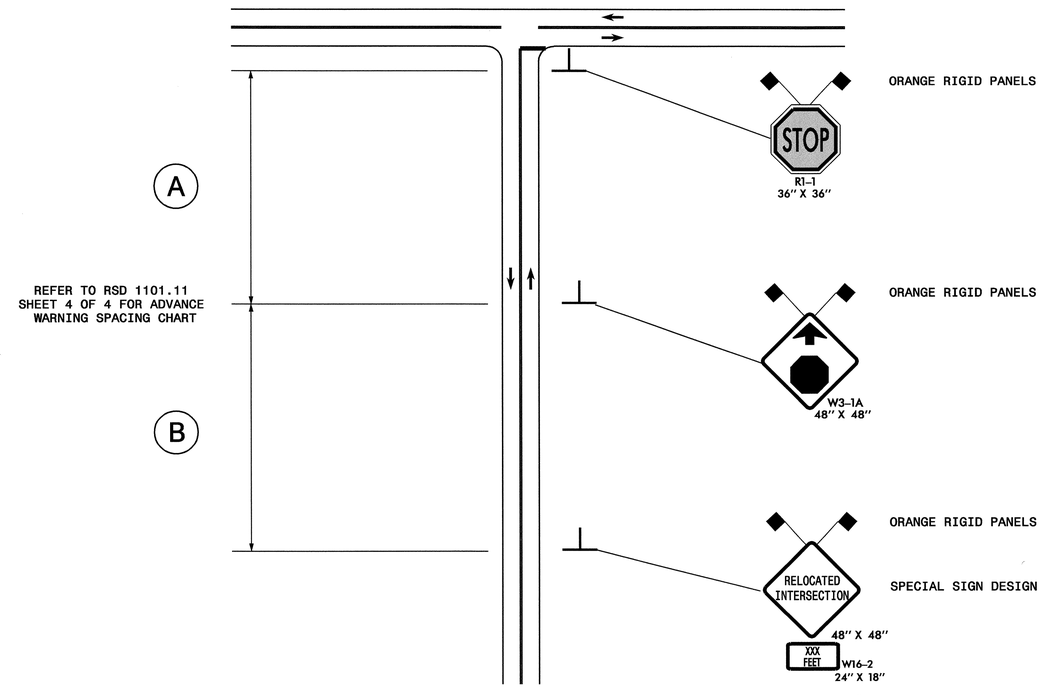
TRAFFIC CONTROL TREATMENT FOR NEW STOP LOCATION FOR HIGH VOLUME ROAD



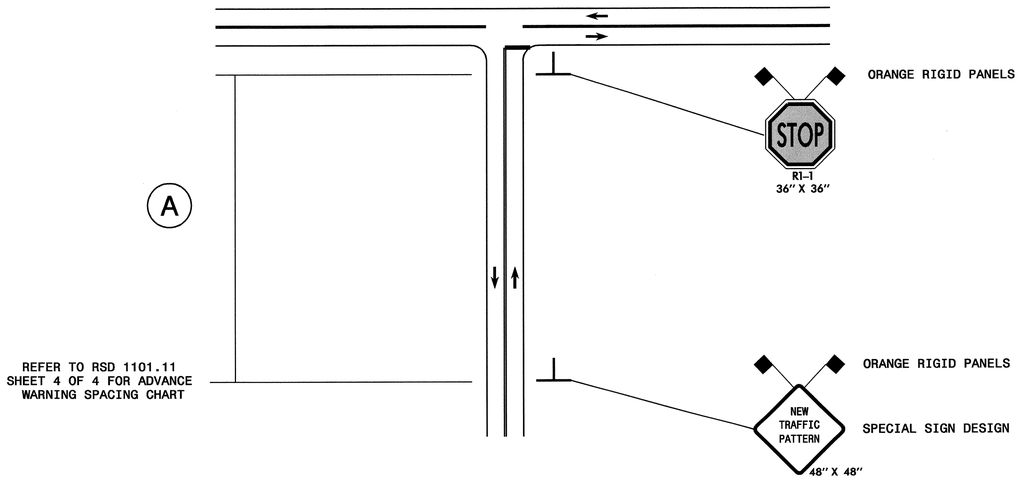
TRAFFIC CONTROL TREATMENT FOR NEW STOP LOCATION FOR MEDIUM TO HIGH VOLUME ROAD



TRAFFIC CONTROL TREATMENT FOR NEW STOP LOCATION FOR MEDIUM VOLUME ROAD



TRAFFIC CONTROL TREATMENT FOR NEW STOP LOCATION FOR LOW VOLUME ROAD



NOTE: MAY ADD CHANGEABLE MESSAGE SIGN IN ADVANCE OF "NEW TRAFFIC PATTERN" SIGN FOR ADDITIONAL ADVANCE WARNING.

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. 2/19/08

TRAFFIC CONTROL FOR NEW STOP LOCATIONS FOR -Y- LINES

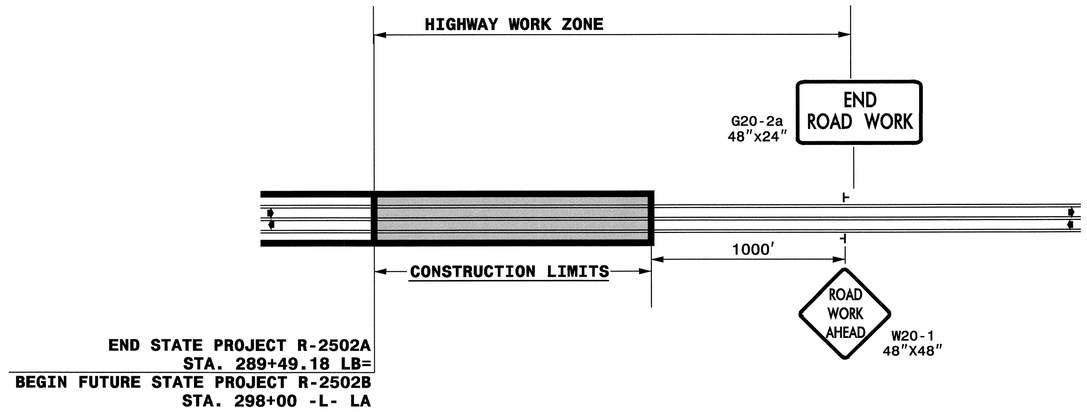
SCALE:	NONE
DATE:	5/07
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

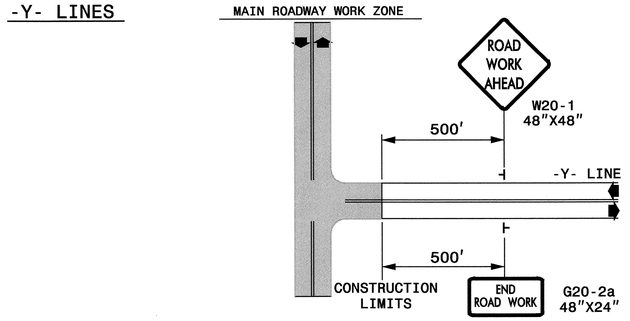
19-FEB-2008 09:12
\\Dot\dfsroot01\Proj\TIPProjects-R\R2502B\traffic\trafficcontrol\tcp\PhaseIV\R-2502B_TC_TCP_PHIV_28A_Rumble.dgn
dhayes
AT WZTC22424

PROJ. REFERENCE NO.	SHEET NO.
R-2502B	TCP-29

TWO-WAY UNDIVIDED ** (US 1)



ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

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

DETAIL DRAWING FOR TWO-WAY UNDIVIDED WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. — 2/19/08

DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS

SCALE:	NONE
DATE:	02/08
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC CONTROL UNIT

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	