

# Index of Sheets

SHEET NO.	SHEET NAME
1 ...	TITLE SHEET
2 ...	ESTIMATED ROADWAY QUANTITIES
3-3A .	TYPICAL SECTIONS
4-4A .	GENERAL NOTES AND SPECIAL NOTES
5 ...	TABULATED QUANTITIES
6-6B .	TRAFFIC SIGNALS AND COUNTER NOTES
7 ...	MARKING DETAIL FOR H.O.V. ENFORCEMENT AREA

# Standard Roadway Drawings

DWG. NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RP-J-7	07-14-14	CONCRETE RAMP JOINT TYPES AND SPACING
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS AND PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAILS FOR EXPRESSWAY AND FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY AND FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAY AND FREEWAY
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-SG-2	07-29-04	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	11-11-04	NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS
T-WZ-10	04-04-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS



## SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT TRANS. PROJ. SPEC. SPV. 2: STEPHANIE KISSELL, P.E., REG. 4

DESIGNER: ROSE WILLIAMS/DEREK LINK, REG. 4 CHECKED BY: DEREK LINK, REG. 4

P.E. NO. 98043-4175-04  
PIN: 121926.00

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

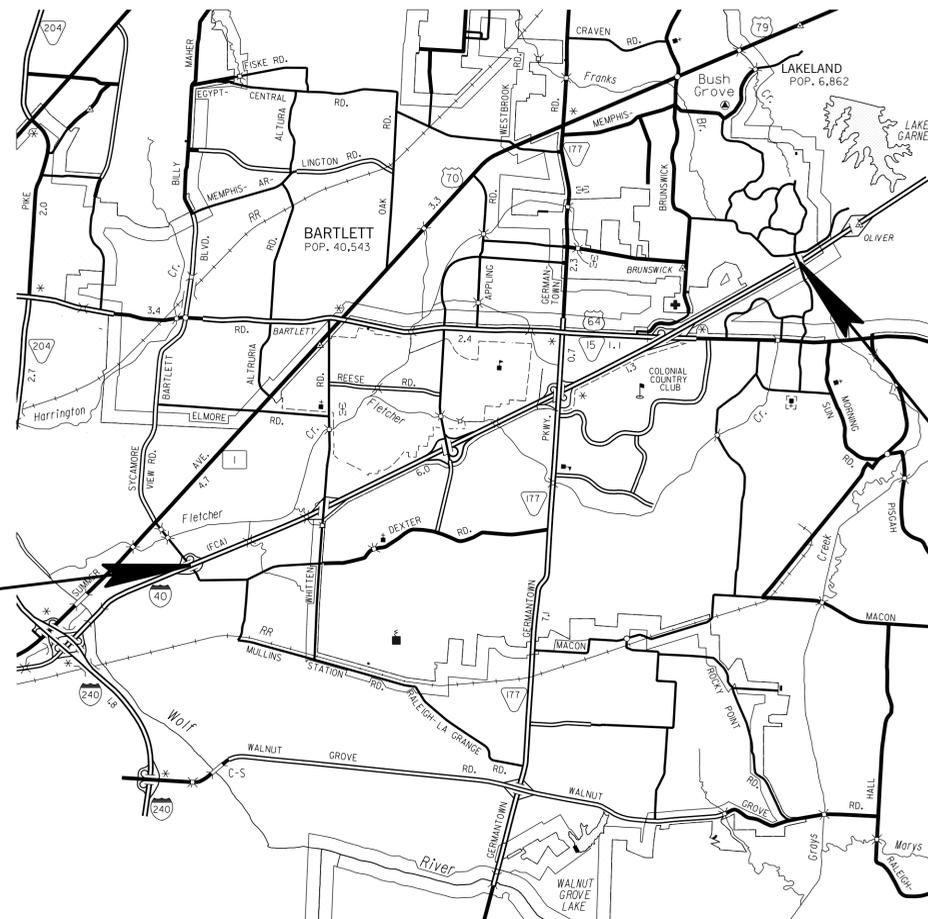
## SHELBY COUNTY

I - 40

FROM: L.M. 15.54 (W. OF SYCAMORE VIEW)  
TO: L.M. 22.98 (W. OF DAVIES PLANTATION RD.)

## RESURFACING

STATE HIGHWAY NO. I - 40 F.A.H.S. NO. N.A.



SCALE: 0 1 2 3 MILES

PROJECT LENGTH **7.44 MILES**  
TOTAL LANE MILES RESURFACED **57.01 MILES**

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	NH-I-40-1(346)	
STATE PROJ. NO.	79903-8119-44	



PROJECT SITE

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY

END PROJECT L.M. 22.98  
(W. OF DAVIES PLANTATION RD.)

APPROVED: Paul D. Deegan  
CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED: [Signature]  
JOHN SCHROER, COMMISSIONER

TRAFFIC DATA	
ADT (2015)	123190

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

4-AUG-2015 09:58  
 \\J104w\fol\dot.stote.tn.us\04SHARED\Design\DESIGN\RESURF REG4 PROJ\ASHELBY\I-40\LMB5-54LM22-98\79040LM5-54 EST\_QTYS.dgn

### ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	79903-8119-44 QUANTITY	NH-I-40(346) QUANTITY	TOTAL QUANTITY
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	2000	0	2000
203-06	WATER	M.G.	46	0	46
① 303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (C OR D)	TON	6090	0	6090
② 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	920	0	920
③ 307-01.15	ASC MIX (PG64-22) (BPMLC-HM) GRADING CS	TON	5746	0	5746
③ 307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	53899	0	53899
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	474	0	474
④ 411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	13701	0	13701
⑤ ⑥ 411-03.10	ACS MIX (PG76-22) GRADING D	TON	28309	0	28309
④ 411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	0	29.8	29.8
⑦ 415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	100812	0	100812
501-01	PORTLAND CEMENT CONCRETE PAVEMENT(REPLACEMENT)	S.Y.	3055	0	3055
502-04.01	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L.F.	4025	0	4025
502-04.02	LOAD TRANSFER DOWELS	EACH	3685	0	3685
⑧ 502-04.03	TRANSVERSE TIE-BARS	EACH	850	0	850
502-08.02	RESEALING JOINTS (SILICONE SEALANT)	L.F.	46835	0	46835
502-08.03	SEALING SHOULDER JOINTS	L.F.	35960	0	35960
502-08.07	SEALING RANDOM CRACKS (SILICONE SEALANT)	L.F.	1895	0	1895
502-25	SAWING CONCRETE JOINTS	L.F.	42845	0	42845
⑨ 705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	0	3	3
712-01	TRAFFIC CONTROL	LS	1	0	1
⑩ 712-06	SIGNS (CONSTRUCTION)	S.F.	4198	0	4198
712-08.03	ARROW BOARD (TYPE C)	EACH	4	0	4
⑪ 712-08.10	MOBILE MESSAGE SIGN UNIT W/ATTENUATOR	HOURL	1000	0	1000
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4	0	4
⑫ 716-01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	7328	0	7328
⑬ 716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Color)	EACH	0	5871	5871
⑭ 716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	4571	0	4571
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	0	804	804
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	0	256	256
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	0	202	202
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	0	36	36
⑮ 716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	0	4880	4880
⑮ ⑫ 716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	0	1	1
⑰ 716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	0	1400	1400
716-04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	0	9	9
716-04.07	PLASTIC PAVEMENT MARKING (EXIT ONLY ARROW)	EACH	0	8	8
716-04.08	PLASTIC PAVEMENT MARKING (OPTION LANE ARROW)	EACH	0	3	3
⑱ 716-04.09	PLASTIC PAVEMENT MARKING (H.O.V. DIAMOND)	EACH	0	52	52
716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	0	3	3
⑲ 716-05.49	PAINTED PAVEMENT MARKINGS(8" LINE)	L.M.	100.156	0	100.156
⑳ 716-05.51	PAINTED PAVEMENT MARKINGS(12" LINE)	L.F.	72442	0	72442
㉑ 716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0	50.078	50.078
716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	0	12800	12800
716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	0	11900	11900
⑮ ㉑ 716-12.08	ENHANCED FLAT LINE THERMO (12IN BARRIER LINE)	L.F.	0	3390	3390
⑱ 716-12.09	ENHANCED FLAT LINE THERMO (12IN LINE)	L.F.	0	36220	36220
716-12.10	ENHANCED FLAT LINE THERMO (12IN DOTTED)	L.F.	0	3720	3720
717-01	MOBILIZATION	LS	1	0	1
730-03.20	INSTALL PULL BOX (TYPE A)	EACH	0	2	2
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	0	4	4
730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	0	50	50
730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	0	64	64
㉒ 730-14.02	SAW SLOT	L.F.	0	1295	1295
㉓ 730-14.03	LOOP WIRE	L.F.	0	3640	3640

### FOOTNOTES

- ① INCLUDES 1353 TONS FOR BREAKOUT AND 1772 TONS FOR RAMPS.
- ② FOR REPLACEMENT OF QUANTITY REMOVED UNDER ITEM 202-03.01.
- ③ INCLUDES 1453 TONS FOR RAMPS AT VARIOUS LOCATIONS AND 1900 TONS FOR SPOT LEVELING.
- ④ INCLUDES 1436 TONS FOR RAMPS AT VARIOUS LOCATIONS.
- ⑤ SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE AND SPECIAL PROVISION NO. 411B FOR RIDEABILITY SPECIFICATIONS.
- ⑥ INCLUDES 2684 TONS FOR RAMPS AT VARIOUS LOCATIONS.
- ⑦ INCLUDES 4975 TONS FOR RAMPS AT VARIOUS LOCATIONS.
- ⑧ SEE SHEET NO. 5 FOR CONCRETE RAMP REPAIR WORK DETAIL.
- ⑨ FOR UPGRADE OF EXISTING ANCHORS AT ALL STRUCTURE LOCATIONS IN PROJECT LIMITS. THE COST OF REMOVAL OF EXISTING GUARDRAIL AND ANCHORS TO BE INCLUDED IN THIS ITEM.
- ⑩ QUANTITY INCLUDES
 

4	ROAD WORK NEXT 8 MI.	(G20-1)	(48" X 24")
4	END ROAD WORK	(G20-2)	(48" X 24")
4	MERGE LEFT	(W4-2)	(48" X 48")
4	MERGE RIGHT	(W4-2)	(48" X 48")
78	UNEVEN LANES	(W8-11)	(48" X 48")
4	ROAD WORK 1 MILE	(W20-1)	(48" X 48")
12	ROAD WORK AHEAD	(W20-1)	(48" X 48")
4	ROAD WORK 1/2 MILE.	(W20-1)	(48" X 48")
4	ROAD WORK 1000 FT.	(W20-1)	(48" X 48")
4	ROAD WORK 500 FT.	(W20-1)	(48" X 48")
4	RIGHT LANE CLOSED 1,500 FT.	(W20-5)	(48" X 48")
4	RIGHT LANE CLOSED 1,000 FT.	(W20-5)	(48" X 48")
4	RIGHT LANE CLOSED 500 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 1,500 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 1,000 FT.	(W20-5)	(48" X 48")
4	LEFT LANE CLOSED 500 FT.	(W20-5)	(48" X 48")
4	FLAGGER AHEAD	(W20-7a)	(48" X 48")
4	FRESH OIL	(W21-2)	(48" X 48")
30	SHOULDER WORK	(W21-5)	(48" X 48")
62	SHOULDER DROP-OFF	(W8-17)	(48" X 48")
20	MOTORCYCLE GROOVE SIGN	(TN-64)	(48" X 48")

THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

- ⑪ SEE SPECIAL PROVISION 712 PTO.
- ⑫ FOR BE USED ON BM-2 AND CS COURSES ONLY.
- ⑬ INCLUDES 1060 EACH FOR RAMP LANES, CORE AND MERGE AREAS, AND 1300 EACH FOR H.O.V. ENFORCEMENT AREAS.
- ⑭ INCLUDES 1060 EACH FOR RAMP LANES, CORE AND MERGE AREAS ONLY.
- ⑮ FOR FINAL PAVEMENT MARKING ONLY.
- ⑯ TO BE USED FOR DELINEATION IN THE GORE AREAS.
- ⑰ 12" DIAGONAL TRANSVERSE MARKING ARE TO BE USED FOR DELINEATION IN THE H.O.V. ENFORCEMENT AREAS.
- ⑱ FOR USE AS FINAL PAVEMENT MARKINGS ARE TO BE USED FOR H.O.V. LINES ONLY.
- ⑲ FOR USE AS TEMPORARY LINE MARKINGS, INCLUDES 27.176 MILES FOR RAMPS, GORE AREAS, INTERSECTIONS, BREAKOUTS, SPOT LEVELING AND ACCELERATION LANES.
- ⑳ FOR USE AS TEMPORARY LINE MARKINGS, ARE TO BE USED FOR H.O.V. LANES ONLY.
- ㉑ FOR FINAL PAVEMENT MARKINGS, INCLUDES 11.521 L.M. FOR RAMPS AT VARIOUS LOCATIONS
- ㉒ THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- ㉓ ITEM INCLUDES AN EXTRA 320' FOR STA. 201 (20' PER LEAD LINE) AND 160' FOR STA. 202 (20' PER LOOP) THAT IS TO REMAIN IN PULL BOX FOR INSTALLATION BY TRAFFIC COUNTER PERSONNEL. (SEE SHEET NOS. 6 - 6B FOR DETAILS)

INTERSECTION	TRAFFIC COUNTERS AND SIGNALIZATION TABULATION					
	LOOP WIRE 730-14.03 (LIN. FT.)	SAW SLOT 730-14.02 (LIN. FT.)	1" CONDUIT (PVC) 730-12.01 (LIN. FT.)	2" CONDUIT (PVC) 730-12.02 (LIN. FT.)	INSTALL PULL BOX (TYPE A) 730-03.20	INSTALL PULL BOX (TYPE B) 730-03.21
• COUNTER STA. 201 EAST AND WEST BR.	1600	620	0	40	2 **	0
• COUNTER STA. 202 WEST BR.	1220	300	0	24	0	2 **
I-40 EXIT 12 TO NB SYCAMORE VIEW	500	250	10	0	0	1
I-40 EB EXIT 18 TO NB S.R. 15 (US64)	320	125	40	0	0	1
TOTALS	3640	1295	50	64	2	4

\* ANY QUESTIONS PLEASE CONTACT STANLEY DUNN @ 615-350-4571  
 \*\* TO BE USED INCASE EXISTING PULL BOXES ARE DAMAGED AND NOT REUSABLE. THIS WILL BE DETERMINED BY THE TDOT ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	2

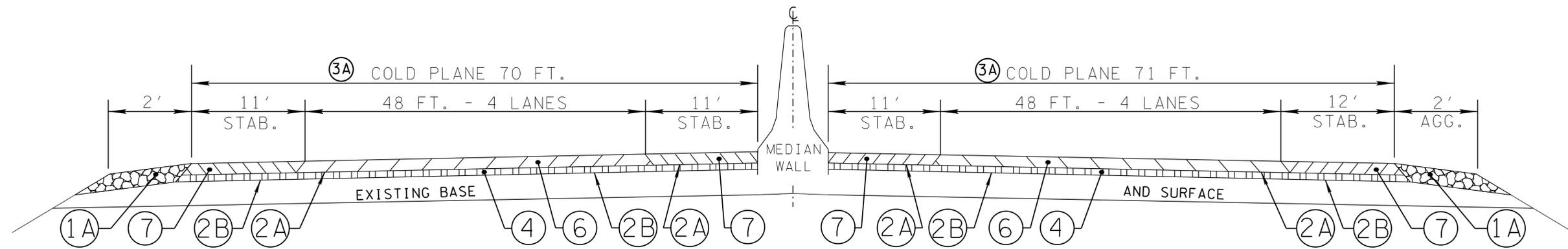
**UNOFFICIAL  
 SET  
 NOT FOR  
 BIDDING**



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
**ESTIMATED  
 ROADWAY  
 QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	3

# TYPICAL SECTION



FROM: L.M. 15.54 TO L.M. 21.37

## PROPOSED PAVEMENT SCHEDULE

<b>MINERAL AGGREGATE BASE FOR SHOULDERS</b>	
①A	ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D" (AT 3"± THICK)
①B	ITEM 303-02 MINERAL AGGREGATE, TYPE "B" BASE, GRADING "C OR D" (AT 2"± THICK)
<b>TACK COAT (TC)</b>	
②A	ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.07 GAL./S.Y.)
②B	ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (AT 0.10 GAL./S.Y.)
<b>COLD PLANING</b>	
③A	ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (AT 3.50"± THICK - APPROX. 367.50 LBS./S.Y.)
③B	ITEM 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (AT 1.50"± THICK - APPROX. 157.50 LBS./S.Y.)
④	BITUMINOUS COURSE (BINDER) @ 2"± THICK (APPROX. 226.0 LBS./S.Y.) ITEM 307-03.08 ASPHALT CONCRETE MIX (PG76-22)(BPMB-HM) GRADING "B-M2"
⑤	BITUMINOUS COURSE (LEVELING) @ 0.40"± THICK (APPROX. 46.00 LBS./S.Y.) ITEM 307-01.15 ACS MIX (PG64-22) (BPMLC-HM) GRADING CS
⑥	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-03.10 ACS MIX (PG76-22) GRADING "D"
⑦	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25"± THICK (APPROX. 128.75 LBS./S.Y.) ITEM 411-01-07 ACS MIX (PG64-22) GRADING "E" (SHOULDER)
⑧	BITUMINOUS BASE COURSE (BLACK BASE) @ 8"± THICK (APPROX. 920.0 LBS./S.Y.) ITEM 307-01.01 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING "A" (THIS ITEM IS TO BE USED FOR BREAKOUT ONLY)

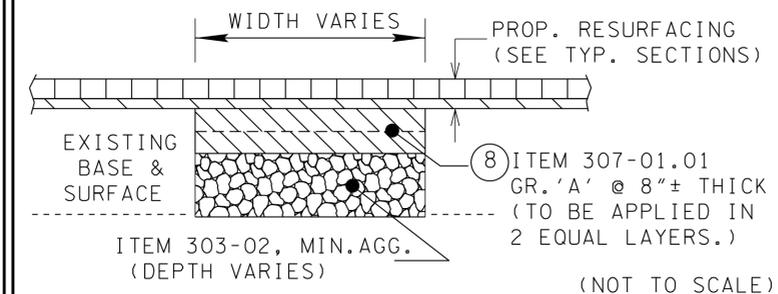
## BRIDGE NOTE

THE CONTRACTOR SHALL:  
COLD PLANE 3± DEPTH AND PAVE ACROSS EXISTING STRUCTURE WITH PLANS QUANTITIES ONLY AT L.M. 15.75 (198')  
"LEAVE AS IS"  
BRIDGES AT L.M. 16.45, 17.32, 19.42 AND 21.47 (699')

## VERTICAL CLEARANCES

NOTICE TO CONTRACTOR:  
AT L.M. 17.32, 18.38, AND 20.17

## DETAIL OF BREAKOUT



**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY

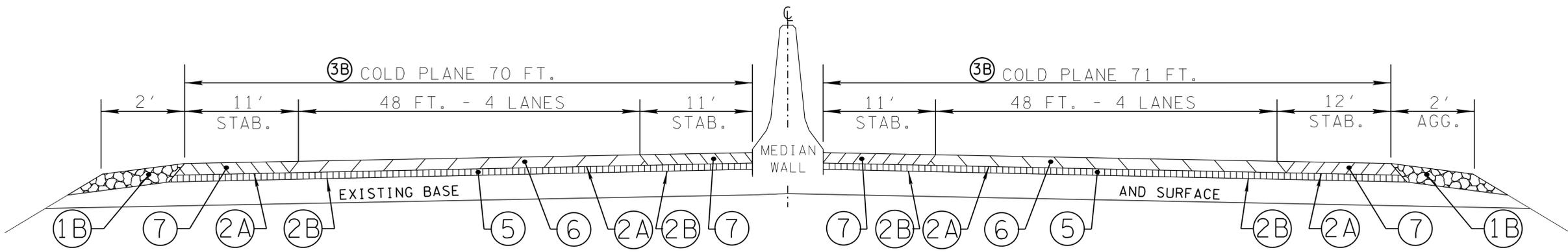


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

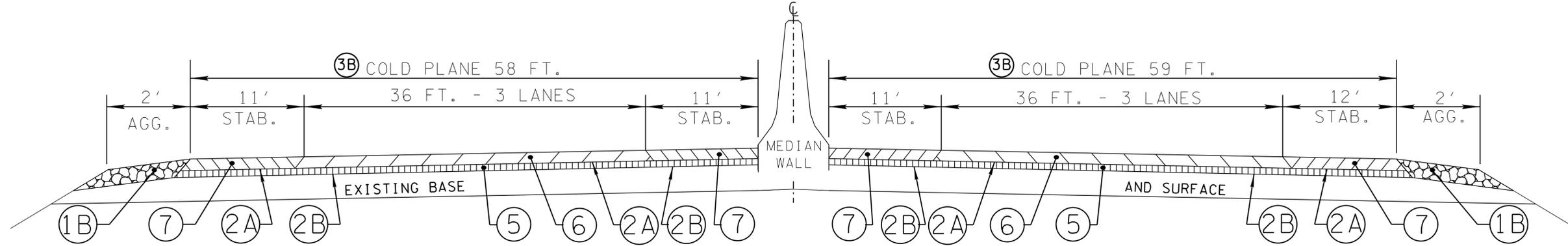
**TYPICAL  
SECTIONS**  
(NOT TO SCALE)

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	3A

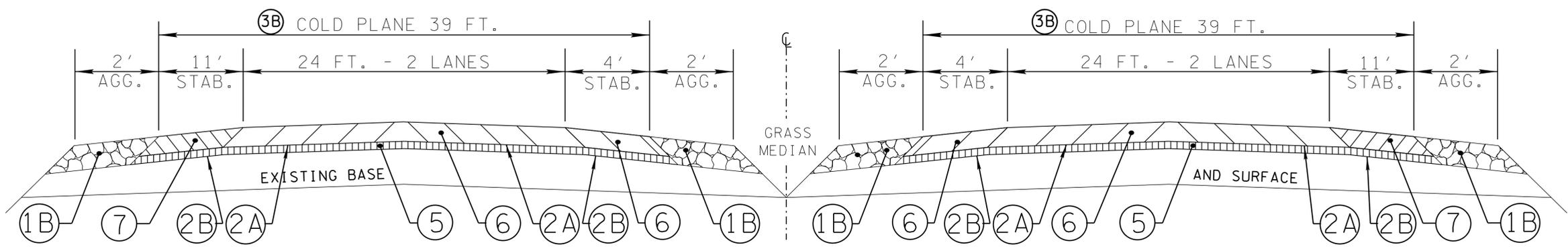
# TYPICAL SECTION



FROM: L.M. 21.37 TO L.M. 21.56



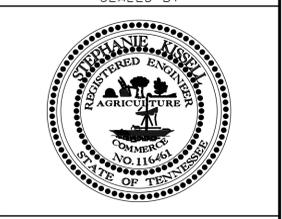
FROM: L.M. 21.56 TO L.M. 22.40



FROM: L.M. 22.40 TO L.M. 22.98

4-AUG-2015 09:58 \\JJD\w\fol\dot.state.tn.us\04SHARED\Design\RESURF REG4 PROJ\SHELBY\I-40\LMS-54\LMS-54L\M22-98\79040\M5-54 TYPICAL.dgn

**UNOFFICIAL SET**  
NOT FOR BIDDING



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**  
(NOT TO SCALE)

# GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	4

## GRADING

ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY.

## GUARDRAIL

THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPE UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

## UTILITIES

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

## MISCELLANEOUS

NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## PAVEMENT MARKINGS

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATIONS IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATIONS IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

## PAVING

THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

## RESURFACING

IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

## SIGNALIZATION

EQUIPMENT AND INSTALLATION SHALL COMPLY WITH TDOT "SPECIAL PROVISIONS REGARDING SECTION 730M-TRAFFIC SIGNALS."

THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MARKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF LEVELING COURSE IS PROVIDED.

LOOPS REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**GENERAL  
NOTES**

# SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	4A

SURFACE IS TO BE CROWNED AS DIRECTED BY THE ENGINEER.

ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. COST TO BE INCLUDED IN ITEM NO. 712-06.

IF THE CONTRACTOR ELECTS TO UTILIZE SIGN POST ANCHORS (STUBS) FOR SIGN ERECTION. THESE SHALL BE REMOVED WHEN THE SIGNS ARE REMOVED TO AVOID FUTURE DAMAGE TO MOWERS OR OTHER MACHINERY.

UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PAINTED MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-05.49.

UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PLASTIC MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-12.02.

ITEM 303-02 TO BE PLACED BEFORE PLACING SURFACING MATERIAL.

THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND BLADE GRASS FROM SHOULDERS BEFORE PLACING ITEM 303-02. MATERIAL BLADED FROM SHOULDERS TO BE PICKED UP AND DISPOSED OF AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN ITEM 303-02.

MATERIAL TRANSFER DEVICE SHALL BE USED FOR "D" MIX.

THE CONTRACTOR SHALL KEEP TWO TRAFFIC LANES, ONE IN EACH DIRECTION, OPEN TO TRAFFIC DURING NON-WORK HOURS / OR NON-WORK DAYS.

A MAXIMUM OF 4 ARROW BOARDS WILL BE PAID FOR DURING THE LIFE OF THIS PROJECT. IF THE CONTRACTOR'S WORK PHASES REQUIRED ADDITIONAL ARROW BOARDS, THEIR COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

THE INSIDE SHOULDERS WILL BE PAVED CONCURRENTLY WITH THE INSIDE TRAFFIC LANE.(FROM L.M. 22.40 TO L.M. 22.98 ONLY)

THE CONSTRUCTION OFFICE SHOULD CONTACT THE CITY ENGINEER FOR ADVICE ON LOCATING THE ADVANCE DETECTION LOOPS

THE CONTRACTOR SHALL NOT DISTURB EXISTING LOOP DETECTORS WHILE BREAKING OUT AND REMOVING EXISTING PAVEMENTS.

THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 48 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED. EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.

THE MILLING AND PAVING OF THE ROADWAY SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00 P.M. AND 6:00 A.M. DURING WEEKDAYS. THE CONTRACTOR SHALL MAINTAIN ALL LANES OF TRAFFIC IN EACH DIRECTION BETWEEN 6:00 A.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY.

THE RAISED REFLECTOR SHALL BE REMOVED BEFORE COLD PLANING.

FEATHER "D"-MIX TO ENDS OF BRIDGES THAT ARE NOT TO BE PAVED.

THE DEPARTMENT SHALL RESERVE THE RIGHT TO REOPEN LANES AS NECESSARY WHEN TRAFFIC CONDITIONS ARE DEEMED UNACCEPTABLE (EXCESSIVE QUEUE LENGTHS AND DELAY TIMES). THE CONTRACTOR SHALL BE REQUIRED TO FULLY COOPERATE WITH THE PROJECT SUPERVISOR WHEN REQUESTED TO MAKE CHANGES TO THE TRAFFIC CONTROL.

THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.49 PAINTED PAVEMENT MARKINGS (8" LINE), L.M.

RAMPS SHALL BE MARKED UP TO WHERE THEY CONNECT TO THE INTERSECTING ROADWAY.

A MAXIMUM OF 4 CHANGEABLE MESSAGE SIGN WILL BE PAID FOR DURING THE LIFE OF THIS PROJECT. IF THE CONTRACTOR'S WORK PHASES REQUIRED ADDITIONAL ARROW BOARDS, THEIR COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

WORKZONE RESTRICTONS SEE SPECIAL PROVISION 108B

12' DIAGONAL TRANSVERSE MARKINGS TO BE PAID FOR UNDER ITEM NO. 716-04.04 PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)

THE CONTRACTOR SHOULD TAKE EXTREME CARE WHEN COLD PLANING THE EXISTING ASPHALT OFF BRIDGE DECK, SO AS NOT TO DAMAGE THE EXISTING DECK SEALANT AND/OR EXPANSION JOINT MEMBERS (STEEL PLATES, BARS, AND/OR HEADERS). IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY REPAIRS ON ALL DAMAGED MEMBERS TO THE SATISFACTION OF THE PROJECT ENGINEER AT NO ADDITIONAL COST.

## RESURFACING

TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITION ONLY:

- A: THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.
- B: THE SURFACE SHALL BE SWEEP AND CLEANED ON ALL LOOSE MATERIALS.
- C: THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.
- D: THE MILLED SURFACE SHALL BE PAVED WITHIN 48 HOURS.
- E: RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.
- F: ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGN (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.
- G: IF RAVELING OR DETERIORATION OF THE MILLED SURFACE IS OCCURRING WHILE TRAFFIC IS DRIVING ON THE MILLED SURFACE, THEN THIS PRACTICE WILL NOT BE ALLOWED AND PAVING SHALL BE COMPLETED IMMEDIATELY AFTER MILLING.
- H: ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

## PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL

- A. DIFFERENCE IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC. CAUSED BY BASE, PAVING OR RESURFACING:
  - 1. DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.
    - a. WARNING SIGNS, UNEVEN PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
    - b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
    - c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
    - d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER, THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

## SPECIAL EROSION PREVENTION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS, BEFORE CLEANING OUT OR REMOVAL/REPLACEMENT OF DITCHES, SIDE DRAINS, AND CROSS DRAINS, TO ENSURE THAT THE DRAINAGE FEATURES/ WATERCOURSES ARE NOT STREAMS OR WETLANDS. IF THE CONTRACTOR/ TDOT INSPECTOR IS UNSURE WHETHER THE DRAINAGE FEATURES ARE STREAMS OR WETLANDS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION TO OBTAIN THE APPROPRIATE PERMITS.

THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CONSTRUCTING EARTH PADS FOR THE TYPE 38 TERMINALS TO ENSURE THAT THE ENVIRONMENTAL FEATURES (STREAMS, WETLANDS, OR SPRINGS) ARE NOT IMPACTED DURING CONSTRUCTION. IF THE CONTRACTOR/TDOT INSPECTOR IS UNSURE WHETHER THE ENVIRONMENTAL FEATURES ARE STREAMS, SPRINGS OR WETLANDS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY OR PERMITS SECTION SO AN ACCURATE DETERMINATION CAN BE ASSESSED. AND DURING CONSTRUCTION OF THE EARTH PADS FOR THE TYPE 38 GUARDRAIL TERMINALS, EXISTING VEGETATION WILL BE REQUIRED TO BE REMOVED FOR THE PROPOSED PAD AND SLOPES. IF DURING THE VEGETATION REMOVAL, ANY TREES GREATER THAN 3 INCHES IN DIAMETER ARE REQUIRED TO BE REMOVED, CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION IMMEDIATELY. DUE TO RECENT MODIFICATION OF THE USFWS STANCE REGARDING THE INDIANA BAT NO TREES >3" DBH SHOULD BE CUT WITHOUT CLEARANCE FROM THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**SPECIAL  
NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	5

CONCRETE RAMP REPAIR WORK								
INTERCHANGE	ITEMS							
	501-01 (SY)	502-04.01 (LF)	502-04.02 (EACH)	502-04.03 (EACH)	502-08.02 (LF)	502-08.03 (LF)	502-08.07 (LF)	502-25 (LF)
<b>Whitten Rd (Exit 14)</b>								
I-40 EB Exit Ramp(s)	310	780	390	305	5295	0	100	4520
EB Entrance Ramp(s)	60	175	105	40	5580	0	55	5405
I-40 WB Exit Ramp(s)	0	0	0	0	5405	0	40	5405
WB Entrance Ramp(s)	210	685	390	185	7485	0	215	6800
<b>SUB-TOTAL</b>	<b>580</b>	<b>1640</b>	<b>885</b>	<b>530</b>	<b>23765</b>	<b>0</b>	<b>410</b>	<b>22130</b>
<b>Appling Rd (Exit 15)</b>								
I-40 EB Exit Ramp(s)	50	105	105	0	4185	5540	20	4085
EB Entrance Ramp(s)	60	125	120	10	2740	4300	20	2620
I-40 WB Exit Ramp(s)	50	70	70	0	1630	2820	60	1565
WB Entrance Ramp(s)	155	200	190	25	2785	4420	30	2585
<b>SUB-TOTAL</b>	<b>315</b>	<b>500</b>	<b>485</b>	<b>35</b>	<b>11340</b>	<b>17080</b>	<b>130</b>	<b>10855</b>
<b>SR-177 (Exit 16)</b>								
I-40 EB Exit Ramp(s)	750	610	690	175	5435	8040	190	4830
EB Entrance Ramp(s)	485	560	615	55	2190	3280	370	1630
I-40 WB Exit Ramp(s)	165	130	195	0	1945	3650	155	1820
WB Entrance Ramp(s)	760	585	815	55	2160	3910	640	1580
<b>SUB-TOTAL</b>	<b>2160</b>	<b>1885</b>	<b>2315</b>	<b>285</b>	<b>11730</b>	<b>18880</b>	<b>1355</b>	<b>9860</b>
	501-01 (SY)	502-04.01 (LF)	502-04.02 (EACH)	502-04.03 (EACH)	502-08.02 (LF)	502-08.03 (LF)	502-08.07 (LF)	502-25 (LF)
<b>TOTAL</b>	<b>3055</b>	<b>4025</b>	<b>3685</b>	<b>850</b>	<b>46835</b>	<b>35960</b>	<b>1895</b>	<b>42845</b>

4-AUG-2015 09:58 \\JJD\w\01\dot.state.tn.us\04\SHARED\Design\RESURF REG4 PROJ\SHELBY\I-40\LMB5-54\LMB5-54 TABULATION QUANTITIES.dgn

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TABULATED  
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	6

### Special Traffic Counter Specifications:

THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL RELATED EQUIPMENT. THE CONTRACTOR SHALL MAKE SURE EACH DETECTION LOOP IS OPERATIONAL AT THE COMPLETION OF THE PROJECT. THE STATE'S LONG RANGE PLANNING DIVISION'S TRAFFIC COUNTER PERSONNEL WILL MAKE THE TRAFFIC COUNTING SITE FULLY USEABLE.

ALL LOOPS SHALL BE 5'X7' FOOT TYPICAL IN SIZE WITH 3 TURNS OF LOOP WIRE. TWO LOOPS LOCATED IN EACH LANE SPACED 16'.0 FEET APART FROM LEADING EDGE TO LEADING EDGE.

LEAD WIRES TO ALL LOOPS SHALL BE RUN THROUGH 2" PVC CONDUIT FROM THE ROAD TO AN IN-GROUND PULL BOX LOCATED AS CLOSE AS POSSIBLE AND BEHIND THE GUARDRAIL. LOOP LEAD-INS AND CONDUIT SHALL BE MARKED ON THE ROADWAY SURFACE SO THAT ANY GUARDRAIL POST INSTALLATION OR OTHER CONSTRUCTION WILL NOT DISTURB THE UNDERGROUND WORK.

AN EXTRA 20 FEET OF LEAD WIRE FOR EACH LOOP SHOULD BE STORED IN THE PULL BOX. ADDITIONALLY THERE SHOULD BE ANOTHER 1.5" PVC STUBBED UP FROM INSIDE THE PULL BOX TO THE OUTSIDE EXTENDING APPROX 3 FEET ABOVE THE GROUND FOR THE INSTALLATION OF AN ELECTRICAL BOX TO BE INSTALLED BY TDOT PERSONNEL. EACH LOOP LEAD-INS SHALL BE MARKED WITH LANE IDENTIFICATION, DENOTING THE LANE AND POSITION IN THE LANE FOR EACH LOOP (SUCH AS NB-1 FOR NORTH BOUND ECT).

PLEASE CONTACT STANLEY DUNN AT 615-350-4571 OR 615-210-0431 WHEN ALL LOOPS AND PULL BOXES ARE INSTALLED AND READY FOR INSTALLATION OF ELECTRICAL BOXES WHICH WILL BE INSTALLED BY TDOT PERSONNEL MAKING THE SITE USABLE AND COMPLETE. PLEASE SUPPLY THE X/Y COORDINATES (BASED ON WGS COORDINATES) OF EACH PULL BOX.

### SPECIAL GENERAL NOTES REQUIRED:

EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNAL ITEMS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

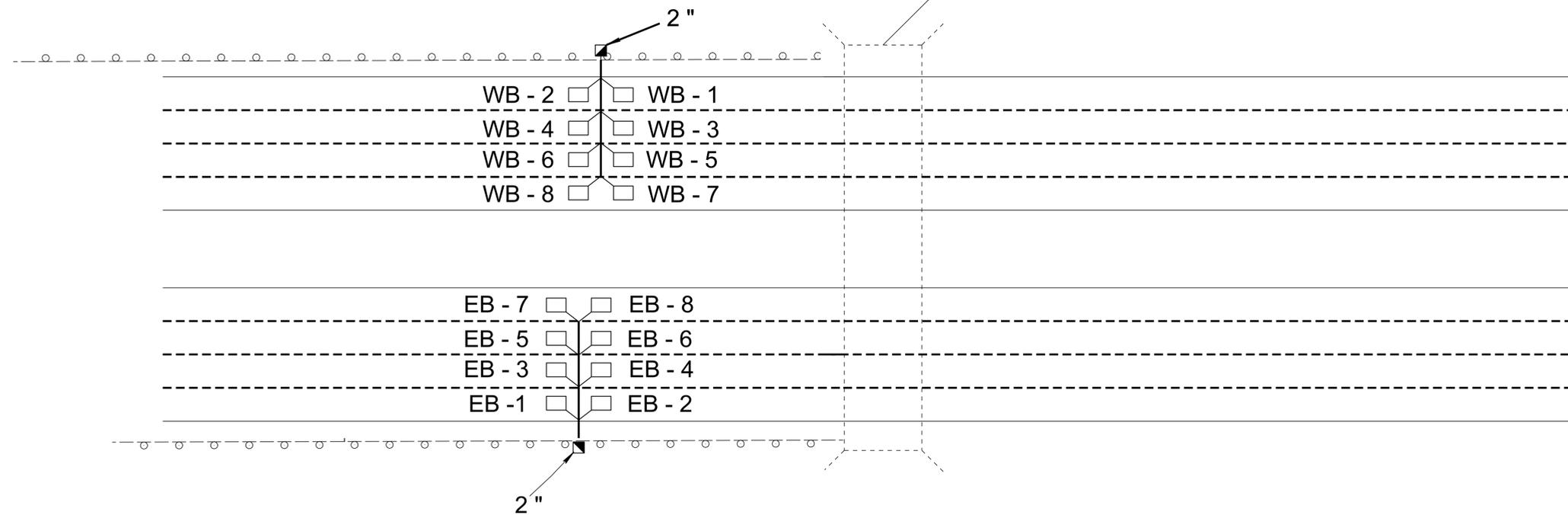
**SPECIAL  
TRAFFIC  
COUNTER  
SPECIFICATIONS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-I-40-1(346)	6A

NOTE: NOTIFICATION OF COMPLETION AND THE X/Y COORDINATIONS OF ALL PULL BOXES IS REQUIRED. SEE SPECIAL TRAFFIC COUNTER SPECIFICATONS



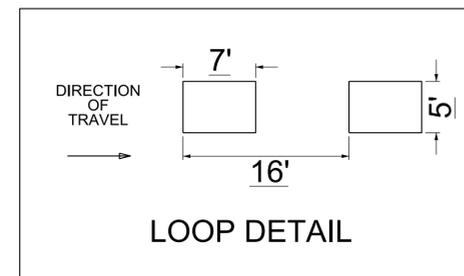
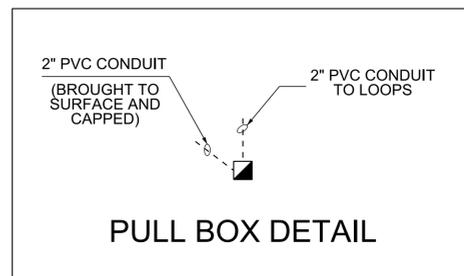
**FLETCHER CREEK BRIDGE**



**I-40 SHELBY COUNTY  
CYCLE COUNT STATION # 201  
EAST BD. LOG MILE 19.43  
WEST BD. LOG MILE 19.36**

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY



**NOT TO SCALE**

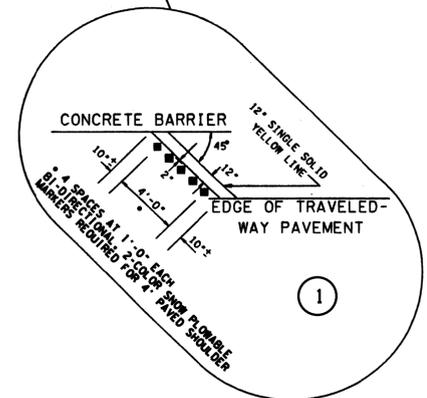
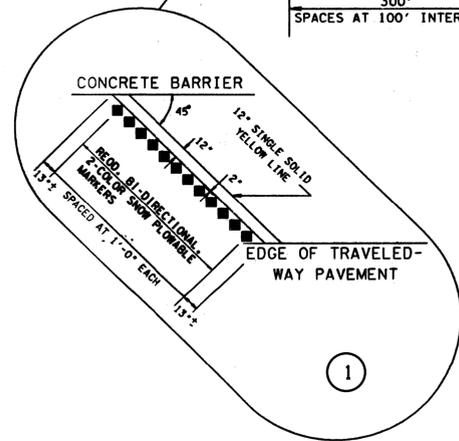
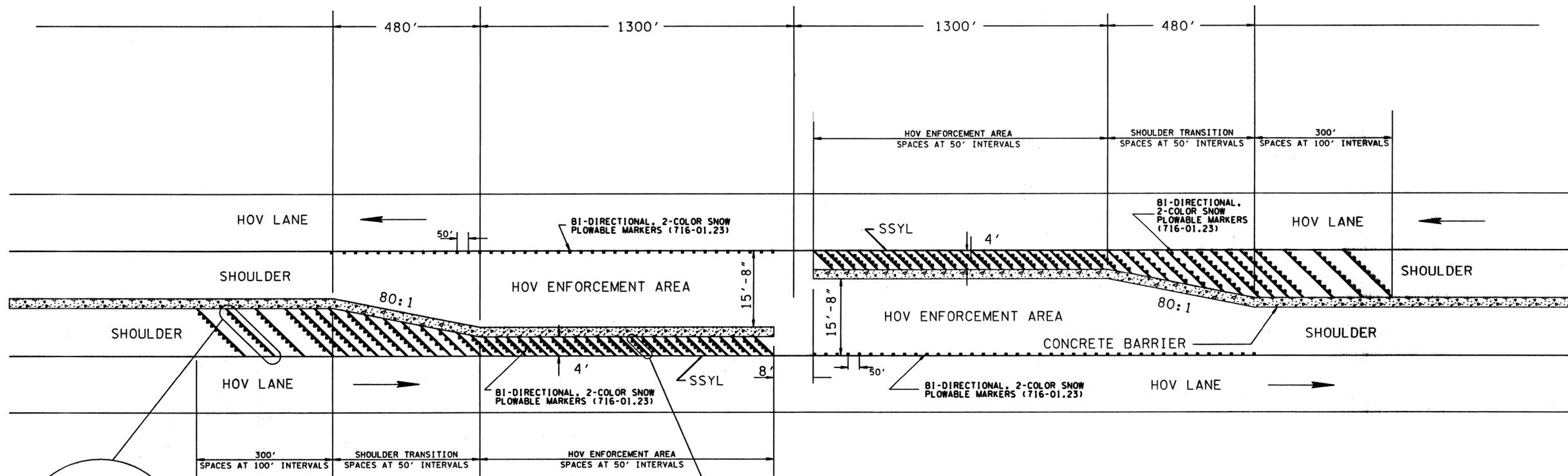
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC  
DETECTION  
LOOPS DETAIL**

4-AUG-2015 09:59 \\JJD\w\01\dot.state.tn.us\04\SHARED\Design\DESIGN\RESURF REG4 PROJ\SHELBY\I-40\LMB5-54\LMB5-54LMB2-98\79040LM5-54 TRAFFIC SIGNAL AND COUNTER NOTES.dgn



TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2015	NH-1-40-1 (346)	7



① BI-DIRECTIONAL, 2-COLOR SNOW PLOWABLE MARKERS (716-01.23) ARE TO BE PLACED WHERE THEIR BACK CORNER PRECEDES THE TRANSVERSE SHOULDER MARKING BY TWO INCHES.

12" DIAGONAL TRANSVERSE MARKINGS TO BE PAID FOR UNDER ITEM NO. 716-04.04 PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)

**UNOFFICIAL SET NOT FOR BIDDING**



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**MARKING DETAILS FOR H.O.V. ENFORCEMENT AREA**

4-AUG-2015 10:08 \\JJ04w\01.tdct.state.tn.us\04SHARED\Design\RESURF REG4 PROJ\SHELBY\1-40\LMIS-54\LM22-98\79040LMIS-54 HOV Enforcement Marking.dgn