

**INDEX**

DESCRIPTION	SHT.
TITLE SHEET	1
ESTIMATED QUANTITIES, TYPICAL SECTIONS & DETAILS	2-4
UTILITY OWNERS, DROP OFF NOTES	5
GENERAL NOTES	6
SPECIAL NOTES	7

**STANDARD ROADWAY DRAWINGS**

DWG. NO.	REV.	DESCRIPTION
<b>ROADWAY DESIGN STANDARDS</b>		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-25-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
<b>ROADWAY AND PAVEMENT APPURTENANCES</b>		
RP-CS-1	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RP-H6	04-13-11	MEDIAN CROSSING
RP-J-23	07-23-12	CONCRETE PAVEMENT REPAIR DETAILS
RP-J-24	05-27-01	CONCRETE PAVEMENT SPALL AND RANDOM CRACK REPAIR DETAILS
RP-J-25	05-27-01	CONCRETE PAVEMENT JOINT REPAIR DETAILS

**SAFETY APPURTENANCES AND FENCE**

S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1	02-02-15	SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-3		SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-5	04-11-14	SAFETY PLAN FOR BRIDGE ENDS IN MEDIANS
S-PL-6	12-01-14	SAFETY PLAN: SAFETY HARDWARE PLACEMENT
S-GR31-1		W-BEAM GUARDRAIL
S-GR-2	11-08-14	TYPE 38 GUARDRAIL TERMINAL
S-GR-4	11-05-14	TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINALS

**TRAFFIC CONTROL APPURTENANCES**

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 & 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 DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED-USE PATHS
T-M-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	12-01-14	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-11	06-05-11	DELINEATOR AND MILEPOST DETAILS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-21	03-15-11	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT

**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 ROAD SP. SV. 2 ROBERT RODGERS PE  
 DESIGNER JASON INGRAM PE CHECKED BY DIANE EVITT  
 P.E. NO. 98023-4217-04  
 PIN NO. 120425.00

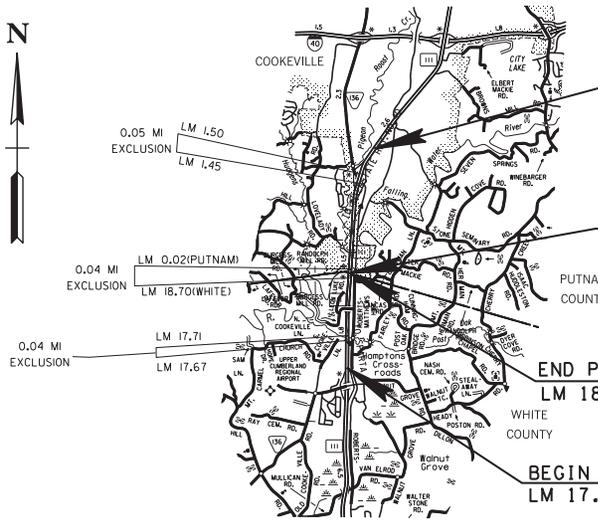
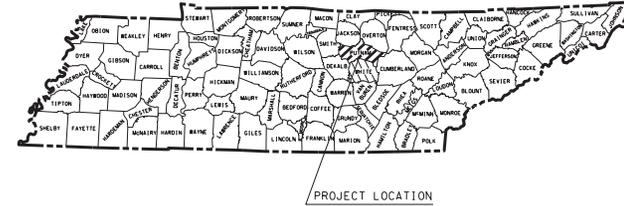
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 BUREAU OF ENGINEERING

REV 02-06-15: REVISED DATES FOR STD DWGS.  
 REV 02-12-15: REVISED PROJECT LENGTHS.

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	NH/HSIP-111(96)	
STATE PROJ. NO.	93003-3233-94, 93003-8233-14	
STATE PROJ. NO.	71004-3231-94, 71004-8231-14	

**WHITE COUNTY**  
 STATE ROUTE 111  
 FROM NORTH OF SR-136 (LM 17.43)  
 TO PUTNAM COUNTY LINE (LM 18.72)  
**PUTNAM COUNTY**  
 STATE ROUTE 111  
 FROM WHITE COUNTY LINE (LM 0.00)  
 TO NORTH OF SR-136 (LM 2.03)  
 COLD PLANING, RESURFACING & PAVEMENT MARKINGS

STATE HIGHWAY NO. 111 F.A.H.S. NO. N/A



71004-3234-94  
 71004-8231-14  
 END PROJ. NO. NH/HSIP-111(96)  
 LM 2.03 (RESURF)

71004-3231-94  
 71004-8231-14  
 BEGIN PROJ. NO. NH/HSIP-111(96)  
 LM 0.00 (RESURF)

93003-3233-94  
 93003-8233-14  
 END PROJ. NO. NH/HSIP-111(96)  
 LM 18.72 (RESURF)

93003-3233-94  
 93003-8233-14  
 BEGIN PROJ. NO. NH/HSIP-111(96)  
 LM 17.43 (RESURF)



APPROVED: Paul D. Degges  
 PAUL D. DEGGES, CHIEF ENGINEER  
 DATE: \_\_\_\_\_  
 APPROVED: John Schroer  
 JOHN SCHROER, COMMISSIONER

(WHITE) EXCLUSIONS	
STATION TO STATION	LENGTH (MI.)
LM 17.67-LM 17.71	0.04
LM 18.70-LM 18.72	0.02
<b>T O T A L =</b>	<b>0.06</b>

(PUTNAM) EXCLUSIONS	
STATION TO STATION	LENGTH (MI.)
LM 0.00-LM 0.02	0.02
LM 1.45-LM 1.50	0.05
<b>T O T A L =</b>	<b>0.07</b>

	WHITE	PUTNAM	TOTAL
PROJECT LENGTH	1.23	1.96	3.19 MILES
TOTAL LANE MILES RESURFACED	4.92	7.84	12.76 MILES

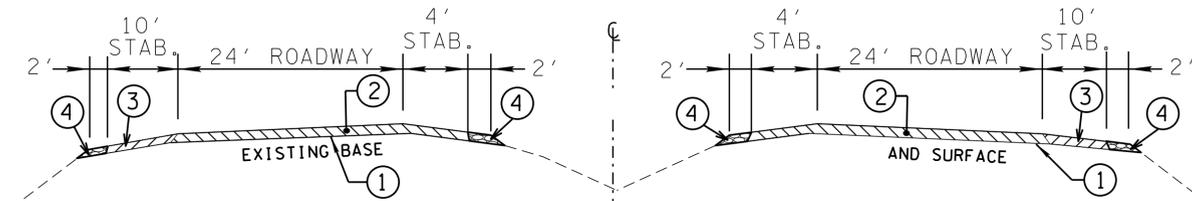
TRAFFIC DATA	
AADT (2014)	17,000

TRAFFIC DATA	
AADT (2014)	16,200

U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION  
 APPROVED: \_\_\_\_\_  
 DIVISION ADMINISTRATOR DATE

2-FEB-2015 05:54 \\sdz001\ford\at016.mus\02\Shared\Design\_Country\_Folder\3\Design\_Resurfacing\_Folder\White-Putnam\00\_White-Put-IL\_The.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	2
		93003-3233-94	
		93003-8233-14	
		71004-3231-94	
		71004-8231-14	



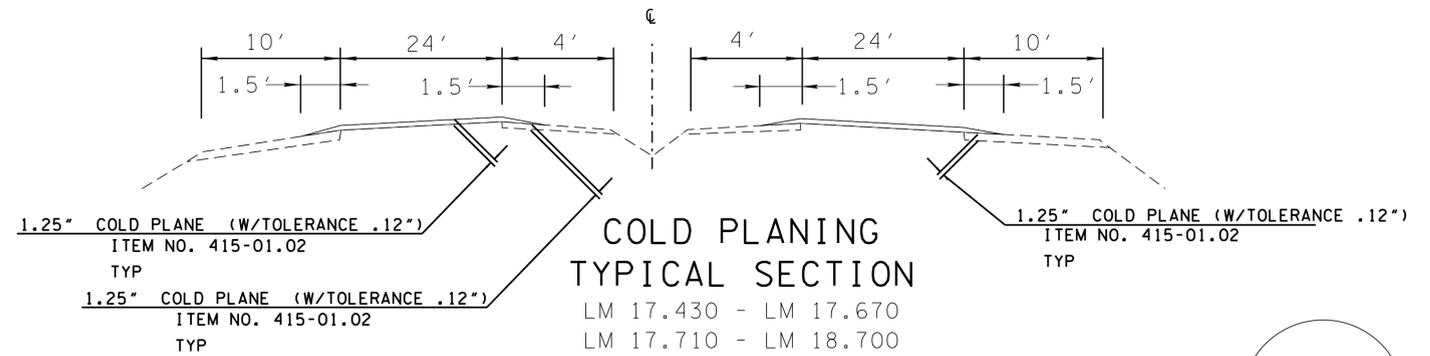
**TYPICAL SECTION**

LM 17.430 - LM 17.670  
LM 17.710 - LM 18.700

NOTE: DUE TO POSSIBILITY OF RAVELING, THE MILLING AND PAVING SHOULD BE COMPLETED CONCURRENTLY.

WHITE CO. ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1026
(5)	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	26
(1)(2)	411-02.10 ACS MIX(PG70-22) GRADING D	TON	2811
	411-02.11 ACS MIX(PG70-22) GRADING E RWDY	TON	1018
	415-01.02 COLD PLANING BITUMINOUS PAVEMENT	S.Y.	62058
(3)	712-01 TRAFFIC CONTROL	LS	0.4
	712-04.02 FLEXIBLE DRUMS (CHANNELIZATION)	EACH	150
	712-05.03 WARNING LIGHTS (TYPE C)	EACH	150
(4)	712-06 SIGNS (CONSTRUCTION)	S.F.	737
	712-08.03 ARROW BOARD (TYPE C)	EACH	1
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	1
(6)	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	6.45
	717-01 MOBILIZATION	LS	0.4

PROPOSED PAVEMENT SCHEDULE	
①	TACK COAT (TC) @ 0.10 GAL/S.Y. ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
②	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25" THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D"
③	STABILIZED SHOULDERS @ 1.25"± THICK (APPROX. 128.75 LBS./S.Y.) ITEM 411-02.11 ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING "E" (SHOULDERS)
④	MINERAL AGGREGATE BASE @ 3"± THICK (APPROX. 338.26 LBS./S.Y.) ITEM 303-01 MINERAL AGGREGATE TYPE "A" BASE GRADING "D"



**COLD PLANING TYPICAL SECTION**

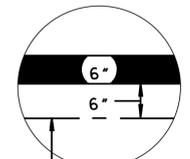
LM 17.430 - LM 17.670  
LM 17.710 - LM 18.700

- FOOTNOTES**
- SEE SPECIAL PROVISION 411C FOR RIDEABILITY.
  - A MATERIAL TRANSFER DEVICE(MTD) IS TO BE USED ON ALL MIXES. SEE SPECIAL PROVISION 407G, ALL COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS BID ITEM.
  - TO BECOME THE PROPERTY OF THE CONTRACTOR.
  - SEE CONSTRUCTION SIGN TABULATION BLOCK FOR DETAILS.
  - TRACKLESS TACK SHOULD BE USED.
  - TEMPORARY PAVEMENT MARKING FOR TRAFFIC ONLY.

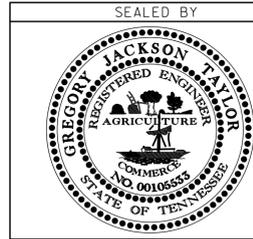
WHITE CO. ESTIMATED SAFETY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	411-12.01 SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	2.46
	411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	1.49
(S1)	713-02.11 REMOVAL OF EXISTING DELINEATORS	EACH	41
(S1)	713-02.14 FLEXIBLE DELINEATOR (WHITE)	EACH	40
(S1)	713-02.15 FLEXIBLE DELINEATOR (YELLOW)	EACH	18
	716-01.23 SNWPLWBLE PVMT MRKRS (BI-DIR)(2 COLOR)	EACH	172
	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	172
(S2)	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	5.81

- FOOTNOTES**
- (S1) TO BE PLACED WHERE AND AS DIRECTED BY TDOT PROJECT SUPERVISOR.
  - (S2) SEE SPECIAL PROVISION 411RS & 716ST FOR FINAL PAVEMENT MARKING DETAILS.

WHITE COUNTY SIGNS (CONSTRUCTION) 712-06					
QUANTITY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X IN	ITEM NO. 712-06 (S.F.)	REMARKS
2	(G20-1)	ROAD WORK NEXT 4 MILES	60   24	20	
2	(G20-2A)	END ROAD WORK	48   24	16	
2	(TN-64)	GROOVED PAVEMENT	48   48	32	
14	(W8-11)	UNEVEN LANES	36   36	126	
2	(W20-1)	ROAD WORK 1/2 MILE	48   48	32	
2	(W20-1)	ROAD WORK 1 MILE	48   48	32	
2	(W20-1)	ROAD WORK 1500 FT	48   48	32	
2	(W20-1)	ROAD WORK 1000 FT	48   48	32	
4	(W20-1)	ROAD WORK 500 FT	48   48	64	
2	(W20-7B)	BE PREPARED TO STOP	36   36	18	
2	(W21-2)	FRESH OIL	30   30	12.5	
4	(W4-2)	MERGE(SYMBOL)	48   48	64	
2	(W4-2)	LT LANE MERGE SYMBOLIC	48   48	32	
2	(W4-2)	RT LANE MERGE SYMBOLIC	48   48	32	
2	(W20-5 L)	LEFT LANE CLOSED AHEAD	48   48	32	
2	(W20-5 R)	RIGHT LANE CLOSED AHEAD	48   48	32	
2	(W20-5 L)	LEFT LANE CLOSED 1500 FT	48   48	32	
2	(W20-5 R)	RIGHT LANE CLOSED 1500 FT	48   48	32	
2	(W20-5 L)	LEFT LANE CLOSED 1/2 MILE	48   48	32	
2	(W20-5 R)	RIGHT LANE CLOSED 1/2 MILE	48   48	32	
				737	TOTAL



LANE JOINT IS TO BE OFF SET 6" FROM CENTER OF ROADWAY.

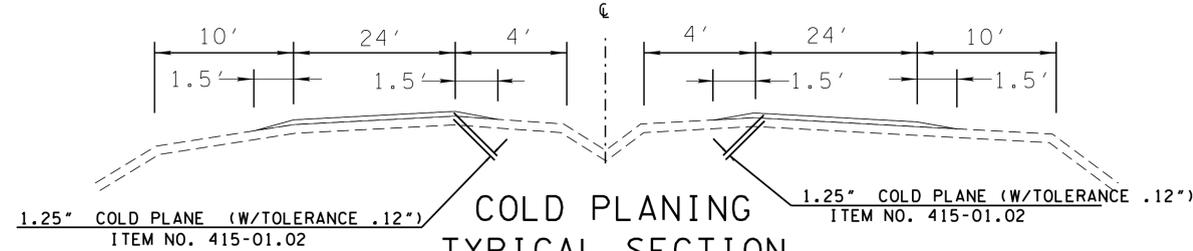


**WHITE COUNTY**

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

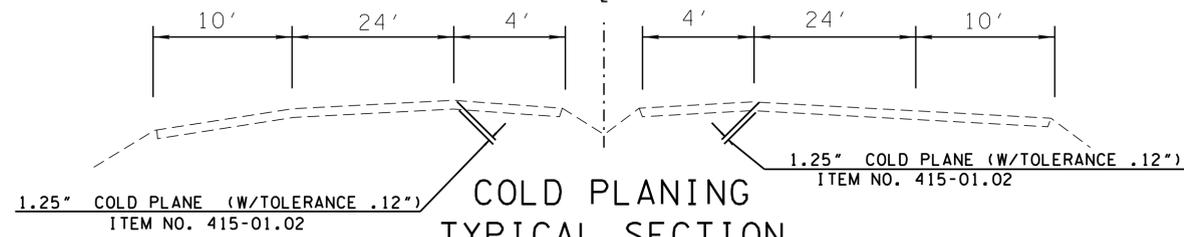
**ESTIMATED ROADWAY QUANTITIES & DETAILS**

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.



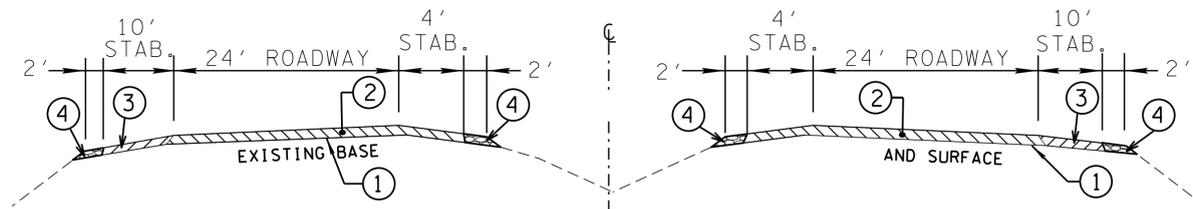
**COLD PLANING TYPICAL SECTION**

LM 0.020 - LM 1.450  
LM 1.500 - LM 2.030



**COLD PLANING TYPICAL SECTION**

LM 1.504 - LM 1.881



**TYPICAL SECTION**

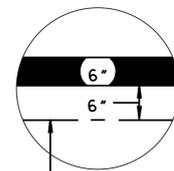
LM 1.054 - LM 1.881

PROPOSED PAVEMENT SCHEDULE	
①	TACK COAT (TC) @ 0.10 GAL./S.Y. ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
②	ASPHALTIC CONCRETE SURFACE (ACS) @ 1.25" THICK (APPROX. 132.50 LBS./S.Y.) ITEM 411-02.10 ACS MIX (PG70-22) GRADING "D"
③	STABILIZED SHOULDERS @ 1.25"± THICK (APPROX. 128.75 LBS./S.Y.) ITEM 411-02.11 ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING "E" (SHOULDERS)
④	MINERAL AGGREGATE BASE @ 3"± THICK (APPROX. 338.26 LBS./S.Y.) ITEM 303-01 MINERAL AGGREGATE TYPE "A" BASE GRADING "D"

NOTE: DUE TO POSSIBILITY OF RAVELING, THE MILLING AND PAVING SHOULD BE COMPLETED CONCURRENTLY.

VEHICLE COUNTER LOCATED AT LM 0.910

TRACKLESS TACK SHOULD BE USED.



LANE JOINT IS TO BE OFF SET 6" FROM CENTER OF ROADWAY.

**PUTNAM CO. ESTIMATED ROADWAY QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QTY
	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1895
(5)	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	65
(1)(2)(10)	411-02.10 ACS MIX(PG70-22) GRADING D	TON	6638
(2)(11)	411-02.11 ACS MIX(PG70-22) GRADING E RWDY	TON	2984
	411-12.01 SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	3.92
	411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	2.94
(3),(9)	415-01.02 COLD PLANING BITUMINOUS PAVEMENT	S.Y.	126740
	712-01 TRAFFIC CONTROL	LS	0.6
	712-04.02 FLEXIBLE DRUMS (CHANNELIZATION)	EACH	294
(7)	712-05.01 WARNING LIGHTS (TYPE A)	EACH	4
(7)	712-05.03 WARNING LIGHTS (TYPE C)	EACH	292
(4)	712-06 SIGNS (CONSTRUCTION)	S.F.	883
(7)	712-08.03 ARROW BOARD (TYPE C)	EACH	1
(7)	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	1
(6),(7),(8)	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	425
(6),(7),(8)	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	142
(6),(7),(8)	716-04.06 PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	2
(6),(7)	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	10.15
	717-01 MOBILIZATION	LS	0.6

**FOOTNOTES**

- SEE SPECIAL PROVISION 411C FOR RIDEABILITY.
- A MATERIAL TRANSFER DEVICE(MTD) IS TO BE USED ON ALL MIXES. SEE SPECIAL PROVISION 407G, ALL COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS BID ITEM.
- TO BECOME THE PROPERTY OF THE CONTRACTOR.
- SEE CONSTRUCTION SIGN TABULATION BLOCK FOR DETAILS ON SHEET 4.
- TRACKLESS TACK SHOULD BE USED.
- SEE SPECIAL PROVISION 411RS & 716ST FOR FINAL PAVEMENT MARKING DETAILS.
- TO BE PLACED WHERE AND AS DIRECTED BY TDOT PROJECT SUPERVISOR.
- 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.
- SEE COLD PLANING TABULATION BLOCK FOR DETAILS ON SHEET 4.
- QTY INCLUDES 269 TONS FOR SPOT LEVELING, CROSS-OVER, AND 4' SHLD REPAIR.
- QTY INCLUDES 677 TONS FOR 4' AND 6' SHLD ON RAMPS.

**PUTNAM CO. ESTIMATED SAFETY QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(S4)	705-02.02 SINGLE GUARDRAIL (TYPE 2)	L.F.	1925
(S4)	705-04.03 GUARDRAIL TERMINAL (TYPE 13)	EACH	3
(S4)	705-04.07 TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	1
(S4)	706-01 GUARDRAIL REMOVED	L.F.	1925
(S4)	706-05 GUARDRAIL ADJUSTMENT	L.F.	425
	712-04.02 FLEXIBLE DRUMS (CHANNELIZATION)	EACH	8
(S3)	712-05.03 WARNING LIGHTS (TYPE C)	EACH	8
	713-02.11 REMOVAL OF EXISTING DELINEATORS	EACH	42
(S1)	713-02.14 FLEXIBLE DELINEATOR (WHITE)	EACH	158
(S1)	713-02.15 FLEXIBLE DELINEATOR (YELLOW)	EACH	97
(S1)	713-16.20 SIGNS (STOP SIGN-R1-1)	EACH	4
(S1)	713-16.21 SIGNS (DO NOT ENTER-R5-1)	EACH	4
(S1)	713-16.22 SIGNS (WRONG WAY-R5-1A)	EACH	4
(S1)	713-16.23 SIGNS (ONE WAY-R6-2)	EACH	2
(S1)	713-16.24 SIGNS (STOP AHEAD-W3-1)	EACH	1
(S1)	716-01.23 SNWPLWBLE PVMT MRKRS (BI-DIR)(2 COLOR)	EACH	315
	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	315
	716-01.40 REMOVE AND REPLACE LENS ON SNOWPLOWABLE REFLECTIVE MARKER	EACH	92
(S2),(S3)	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	12.41
(S2),(S3)	716-12.03 ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	4564
(S2),(S3)	716-12.04 ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	1990

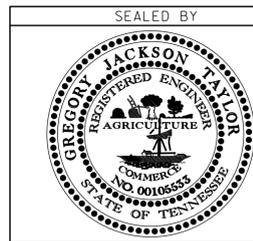
**FOOTNOTES**

- TO BE PLACED WHERE AND AS DIRECTED BY TDOT PROJECT SUPERVISOR.
- SEE SPECIAL PROVISION 411RS & 716ST FOR FINAL PAVEMENT MARKING DETAILS.
- TO BE PLACED WHERE AND AS DIRECTED BY TDOT PROJECT SUPERVISOR.
- SEE GUARDRAIL TABULATION BLOCK FOR DETAILS ON SHEET 4.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	3
		93003-3233-94	
		93003-8233-14	
		71004-3231-94	
		71004-8231-14	

REV 01-23-15: REVISED EST RDY QTY IMAGE.  
REV 02-06-15: UPDATED TYPICALS AND FOOTNOTES.

D6-FEB-2015 08:27 \\J02WF01.tdot.stor.te.m.us\02Shoredesign County Design Resurfacing Folder\Resurf 2015\2015 State Routes\FF7 White-Putnam-IL\003-putnam.dgn



**PUTNAM COUNTY**

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**ESTIMATED ROADWAY QUANTITIES & DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	4
		93003-3233-94 93003-8233-14	
		71004-3231-94 71004-8231-14	

TABULATED GUARDRAIL								
Log Mile	Log Mile	Side	Item No. 303-01 MIN AGG (TON)	Item No. 705-02.02 Type 2 GR	Item No. 705-04.03 Type 13	Item No. 705-04.07 Type 38	Item No. 706-01 GR Removal	Item No. 706-05 GR Adjustment
0.869	0.921	NB RT			1			250.0
1.420	1.459	NB LT			1			175.0
2.000	1.627	SB RT	20	1925	1	1	1925.0	
TOTAL			20	1925	3	1	1925	425

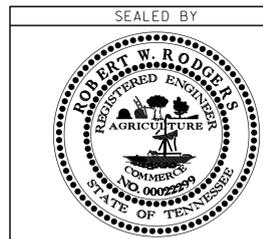
COLD PLANING (PUTNAM COUNTY)						
FROM LOG MILE	TO LOG MILE	LOCATION	LENGTH FT	WIDTH FT	DEPTH IN	S.Y.
0.020	1.450	NORTHBOUND	7550	27.00	1.25	22651
1.500	2.030	NORTHBOUND	2798	27.00	1.25	8395
1.054	1.881	NORTHBOUND	4367	38.00	1.25	18437
0.020	1.450	SOUTHBOUND	7550	27.00	1.25	22651
1.500	2.030	SOUTHBOUND	2798	27.00	1.25	8395
1.054	1.881	SOUTHBOUND	4367	38.00	1.25	18437
0.000	0.000	CONCRETE RAMP AREAS	1343	17.00	1.25	2537
0.000	0.000	(LM 1.00+/- TO LM 1.14+/-)	1478	39.00	2.50	6405
0.000	0.000	(LM 1.68+/- TO 1.87+/-)	2006	39.00	2.50	8693
0.000	0.000	RAMP SHOULDERS	8631	10.00	1.25	9590
0.000	0.000	CROSS-OVER	55	90.00	1.25	550
TOTAL						126740

NOTE: TIE PAVEMENT BACK FLUSH TO CONCRETE RAMPS.

PUTNAM CO. SIGNS (CONSTRUCTION) 712-06						
QTY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X IN		ITEM NO. 712-06 (S.F.)	REMARKS
2	(G20-1)	ROAD WORK NEXT 4 MILES	60	24	20	
4	(G20-2A)	END ROAD WORK	48	24	32	
4	(TN-64)	GROOVED PAVEMENT	36	36	36	
22	(W8-11)	UNEVEN LANES	36	36	198	
2	(W20-1)	ROAD WORK AHEAD	48	48	32	
2	(W20-1)	ROAD WORK 1/2 MILE	48	48	32	
2	(W20-1)	ROAD WORK 1 MILE	48	48	32	
2	(W20-1)	ROAD WORK 1500 FT	48	48	32	
2	(W20-1)	ROAD WORK 1000 FT	48	48	32	
2	(W20-4)	ONE LANE ROAD AHEAD	36	36	18	
2	(E5-2A)	EXIT CLOSED	48	36	24	
2	(W3-4)	BE PREPARED TO STOP	36	36	18	
2	(W21-2)	FRESH OIL	30	30	12.5	
4	SPECIAL	MERGE NOW WITH ARROW	48	48	64	
2	(W20-5 L)	LEFT LANE CLOSED AHEAD	48	48	32	
2	(W20-5 R)	RIGHT LANE CLOSED AHEAD	48	48	32	
2	(W20-5 L)	LEFT LANE CLOSED 1500 FT	48	48	32	
2	(W20-5 R)	RIGHT LANE CLOSED 1500 FT	48	48	32	
2	(W20-5 L)	LEFT LANE CLOSED 1/2 MILE	48	48	32	
2	(W20-5 R)	RIGHT LANE CLOSED 1/2 MILE	48	48	32	
4	(W4-2)	MERGE(SYMBOL)	48	48	64	
2	(W4-2)	LT LANE MERGE SYMBOLIC	36	36	18	
2	(W4-2)	RT LANE MERGE SYMBOLIC	36	36	18	
2	(R1-2)	YIELD SIGN	36x	36x36	8	
					883	TOTAL

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

3-JAN-2015 08:50 \\J02WF01.tdot.state.tn.us\02Shored\Design County Folders\Design Resurfacing Folders\Resurf 2015\2015 State Routes\FF7 White-Putnam-IL\004-putnam.dgn



PUTNAM COUNTY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ESTIMATED  
ROADWAY  
QUANTITIES  
& DETAILS

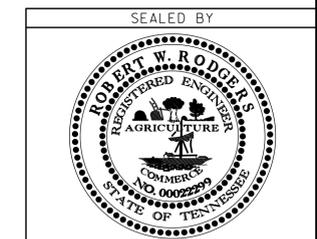
TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	5
		93003-3233-94	
		93003-8233-14	
		71004-3231-94	
		71004-8231-14	

## PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

- A. DIFFERENCES 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. DIFFERENCES 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.

WHITE COUNTY SR-111 UTILITY OWNERS				
UTILITY	NAME	ADDRESS	CONTACT PERSON	PHONE#
Gas	Middle Tennessee Natural Gas	PO Box 670, Smithville TN 37166	Matt Stennett	(615) 597-0515
Fiber Optic	VolFirst	PO Box 670, McMinnville TN 37111	Richard Boyd	(931) 668-6692
CATV	Charter Communications	38 West Broad Street, Cookeville TN 38501	Preston Kirby	(931) 372-2889
Water	O'Connor Utility District	250 Summitt Drive, Sparta TN 38583	Tony Maggart, II	(931) 761-7074
Water	Quebeck-Walling Utility District	281 West Bockman Way, Sparta TN 38583-1829	Janet Rogers	(931) 836-2147
Water	Sparta Public Works	PO Box 468, Sparta TN 38583	Olof Fornehed	(931) 738-2281
Electric	Sparta Public Works	PO Box 468, Sparta TN 38583	Olof Fornehed	(931) 738-2281
Sewer	Sparta Public Works	PO Box 468, Sparta TN 38583	Olof Fornehed	(931) 738-2281
Electric	Caney Fork Electric Cooperative, Inc.	PO Box 272, McMinnville TN 37110	William Rogers	(931) 473-3116

PUTNAM COUNTY SR-111 UTILITY OWNERS				
UTILITY	NAME	ADDRESS	CONTACT PERSON	PHONE#
Gas	Cookeville Gas Dept., City of	PO Box 998, Cookeville TN 38503	Jeff Mills	(931) 520-4427
Telephone	Frontier/Citizens Communications Company	250 South Franklin Avenue, Cookeville TN 38501	Harold Rader, II	(931) 528-0534
CATV	Charter Communications	38 West Broad Street, Cookeville TN 38501	Preston Kirby	(931) 372-2889
Water	Cookeville Water Quality Dept., City of	1860 South Jefferson Avenue, Cookeville TN 38506	Barry Turner	(931) 520-5258
Electric	Cookeville Electric Dept., City of	55 West Davis Road, Cookeville TN 38506	Tony Peek	(931) 520-5400
Sewer	Cookeville Water Quality Dept., City of	1860 South Jefferson Avenue, Cookeville TN 38506	Barry Turner	(931) 520-5258
Electric	Upper Cumberland Electric Membership Corp.	138 Gordonsville Highway, Carthage TN 37030-1810	Jimmy Gregory	(800) 261-2940



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**UTILITY OWNERS  
DROP OFF NOTES  
&  
PRE-CONST  
RIDE NOS.**

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	6
		93003-3233-94 93003-8233-14	
		71 004-3231-94 71 004-8231-14	

# GENERAL NOTES

## GRADING

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

## GUARDRAIL

- (2) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES 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.
- (3) 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

- (4) 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.
- (5) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (6) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (7) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (8) 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

- (9) 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

### TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

- (10) 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. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

### FINAL PAVEMENT MARKING IF 6" ENHANCED FLATLINE THERMOPLASTIC IS USED

- (11) 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 OPERATION 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.

## PAVEMENT

### PAVING

- (12) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (13) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.
- (14) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

### RESURFACING

- (15) 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.

### SIGNING

- (16) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (17) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- (18) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (19) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (20) 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.
- (21) 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.
- (22) 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.

- (23) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (24) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE 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 INCREASE 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. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. 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.
- (25) 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 PARK WITHIN THIRTY (30) FEET OF A 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.
- (26) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

## EROSION PREVENTION AND SEDIMENT CONTROL

### LITTER, DEBRIS, WASTE, PETROLEUM

- (27) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.
- (28) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

GENERAL  
NOTES

3-JAN-2015 08:53 \\J02WF01.tdot.state.tn.us\02Shoredesign\County\Folders\Design\Resurfacing\Folders\Resurf 2015\2015 State Routes\F77 White-Purdom-IL\007\_SR-IL\_Sk.dgn

# SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	NH/HSTP-111(96)	7
		93003-3233-94 93003-8233-14	
		71004-3231-94 71004-8231-14	

## TRAFFIC CONTROL

- (1) 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".
  - (2) SHOULD A FLAGGING OPERATION FOR TRAFFIC CONTROL BE UTILIZED FOR RESURFACING, THE CONTRACTOR SHALL MAKE PROVISIONS TO SAFELY CONTROL TRAFFIC INGRESS AT ALL ROADWAY ENTRANCES WITHIN THE FLAGGED WORK ZONE TO THE SATISFACTION OF THE ENGINEER, ALL COST ASSOCIATED WITH THE CONTROLS WILL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.
  - (3) EXISTING CONSTRUCTION, REGULATORY AND WARNING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNING SHALL BE REMOVED DURING CONSTRUCTION AND REINSTALLED AS DIRECTED BY THE ENGINEER. ALL COSTS TO BE INCLUDED IN THE PRICE BID FOR ITEM NO. 712-01, TRAFFIC CONTROL, PER LUMP SUM.
  - (4) THE CONTRACTOR SHALL GIVE THE TDOT PROJECT SUPERVISOR A MINIMUM OF SEVEN (7) DAYS NOTICE PRIOR TO STARTING WORK SO THAT SUFFICIENT NOTICE CAN BE PREPARED AND DISTRIBUTED TO THE MEDIA.
  - (5) IMMEDIATELY UPON COMPLETION OF EACH CONSTRUCTION PHASE, ALL TRAFFIC CONTROL ITEMS THAT ARE NOT NECESSARY FOR THE SUCCEEDING PHASE SHALL BE REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC.
  - (6) ADDITIONAL FLAGGING PERSONNEL WILL BE REQUIRED AS DIRECTED BY THE TDOT PROJECT SUPERVISOR DUE TO THE LARGE NUMBER OF BUSINESS ENTRANCES AND SIDE STREETS.
  - (7) THE CONTRACTOR SHALL PROVIDE FLAGGER AT EACH SIDEROAD WITHIN THE PAVING OPERATION.
  - (8) A MINIMUM OF TWO (2) TYPE "C" ARROW BOARDS WILL BE REQUIRED FOR THE ENTIRE CONTRACT. PAYMENT FOR ARROW BOARDS WILL BE SPLIT FIFTY PERCENT (50%) BETWEEN EACH PROJECT LOCATION. IF THE CONTRACTOR SCHEDULES HIS OPERATIONS SUCH THAT MORE THAN TWO (2) ARROW BOARDS ARE REQUIRED, THE COST OF ALL ADDITIONAL ARROW BOARDS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - (9) TWO (2) CHANGEABLE MESSAGE SIGNS UNITS (ITEM NO. 713-16.01) WILL BE REQUIRED ON THIS PROJECT. THE SIGNS WILL BE USED FOR ADVANCED WARNING OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR CHANGEABLE MESSAGE SIGNS WILL BE SPLIT FIFTY PERCENT (50%) BETWEEN EACH PROJECT LOCATION. IF THE CONTRACTOR SCHEDULES HIS OPERATIONS SUCH THAT MORE THAN TWO (2) CHANGEABLE MESSAGE SIGNS ARE REQUIRED, THE COST OF ALL ADDITIONAL CHANGEABLE MESSAGE SIGNS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - (10) ACCESS TO THE PROJECT WILL BE PERMITTED AT THE INTERCHANGES ONLY. THE CONTRACTOR WILL BE PERMITTED TO CROSS MEDIAN AT EXISTING CROSS-OVERS ONLY.
  - (11) TWO (2) TRUCK MOUNTED ENERGY ATTENUATORS (ITEM NO. 705-07.11) WILL BE REQUIRED ON THIS PROJECT. THE COST OF ALL ADDITIONAL ATTENUATORS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - (12) ALL TRUCK MOUNTED ENERGY ATTENUATORS SHALL INCLUDE A DRIVER.
  - (13) ALL COSTS ASSOCIATED WITH STAKING SIGNS SHALL BE INCLUDED IN THE PRICE BID FOR 712-06, SIGNS (CONSTRUCTION).
- ## LANE CLOSURES
- (14) THE RESTRICTION OF TRAFFIC TO ONE LANE SHALL NOT EXCEED ONE DAY'S PAVING OPERATION.
  - (15) LANE CLOSURE WITH LEFT LANE MERGE AND LANE SHIFT TRAFFIC CONTROL IS TO BE USED ON ALL LANE CLOSURES.
  - (16) THE CONTRACTOR SHALL KEEP ALL TRAFFIC LANES OPEN TO TRAFFIC DURING NON-WORKING HOURS AND/OR NON-WORK DAYS.
  - (17) OVERNIGHT LANE CLOSURES WILL NOT BE ALLOWED UNLESS DIRECTED BY THE TDOT PROJECT SUPERVISOR.
  - (18) THE CONTRACTOR SHALL SCHEDULE PAVING OPERATIONS TO PREVENT INTERRUPTION OF SCHOOL TRAFFIC DURING MORNING START AND AFTERNOON DISMISSAL.
  - (19) THE CONTRACTOR SHALL NOT BE ALLOWED TO INTERRUPT TRAFFIC FLOW AND SHALL MAINTAIN ALL LANES OF TRAFFIC IN EACH DIRECTION ON THE FOLLOWING DAYS:
    - A. OFFICIAL STATE HOLIDAYS.
    - B. FRIDAY AT 6:00 PM UNTIL TUESDAY AT 7:00 AM, IF A STATE HOLIDAY OCCURS OR IS OBSERVED ON MONDAY.

- C. THURSDAY AT 6:00 PM UNTIL MONDAY AT 7:00 AM, IF A STATE HOLIDAY OCCURS OR IS OBSERVED ON FRIDAY.
- D. DURING LOCAL FESTIVALS, GAMES OR EVENTS THAT COULD BE IMPEDED BY THE PAVING OPERATIONS WHERE AND AS DIRECTED BY THE TDOT PROJECT SUPERVISOR.
- E. SEE SPECIAL PROVISION 108B FOR BRIDGE REPAIR TIME FRAMES.

## PAVING

- (20) ALL SURPLUS PATCHING AND JOINT MATERIAL IS TO BE REMOVED BEFORE PLACING TACK COAT AND SURFACE. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (21) MATERIAL TRANSFER DEVICE (MTD) TO BE USED ON ALL MIXES. COST TO BE INCLUDED IN THE UNIT PRICE BID ON ASPHALT PAVEMENT ITEMS. SEE SPECIAL PROVISION 407G.
- (22) ALL DRAINS ACROSS BRIDGES NEED TO BE CHECKED AND CLEANED AFTER PAVING IS COMPLETE. COST TO BE INCLUDED IN OTHER ITEMS.
- (23) THE FOUR FOOT INSIDE SHOULDER SHALL BE PAVED CONCURRENTLY WITH THE INSIDE TRAFFIC LANE.
- (24) THE CONTRACTOR WILL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, PRIVATE DRIVES AND CLEAN EXISTING SIDE DRAINS AS DIRECTED, WHERE NECESSARY, BEFORE PLACING TACK COAT AND SURFACE. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (25) FREQUENTLY USED PRIVATE DRIVES ARE TO BE PAVED AS DIRECTED BY THE TDOT PROJECT SUPERVISOR WITH SURFACE MATERIAL NOT TO EXCEED THE NORMAL PAVERS WIDTH ALONG THE EDGE OF THE PROPOSED ROADWAY PAVING, THEN FEATHERED TO THE EXISTING GRADE WITH EITHER CRUSHED STONE, TACK COAT, LEVELING OR SURFACE MATERIAL.
- (26) A SAFETY EDGE SHALL BE USED ON PAVEMENT EDGES. SEE SPECIAL PROVISION 407SE FOR DETAILS.
- (27) ANY QUANTITY REMAINING ON ITEMS COMPLETED PRIOR TO THE PAVING OPERATION WILL NOT BE CONVERTED TO ADDITIONAL ASPHALT FOR THE ROADWAY.
- (28) ITEM NO. 303-01, CRUSHED STONE FOR SHOULDERS, IS TO BE PLACED TO EXISTING SHOULDER WIDTH OR AS DIRECTED BY THE TDOT PROJECT SUPERVISOR. ALL COSTS OF CONSTRUCTING SHOULDERS, SHAPING OR CLIPPING OF EXISTING SHOULDERS AND DISPOSAL OF ANY DEBRIS FROM SHOULDER CLIPPING ARE TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM NO. 303-01.

## COLD PLANING

- (29) THE CONTRACTOR WILL BE REQUIRED TO PAVE THE COLD PLANED PAVEMENT WITHIN A PERIOD OF 48 HOURS.
- (30) PROVIDED THAT THE CONTRACTOR USES A COLD PLANED PLANNING MACHINE WITH THE MILLING DRUM SPECIFICATIONS OF CLOSELY SPACED FINE TOOTH (5/16 INCHES OR SMALLER) MILLING DRUM, MOVING FORWARD AT MODERATE SPEED (50 TO 65 FPM.) AND THE UNDER SURFACE REMAINS INTACT (HAVING NO LOOSE MATERIAL OR GOUGES,) THEN THE CONTRACTOR MAY GET PERMISSION FROM REGION 2 CONSTRUCTION TO MILL ALL SURFACES BEFORE COVERING WITH BITUMINOUS MATERIAL.
- (31) ALL COLD PLANED MATERIAL IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- (32) IF SUBSURFACE PAVEMENT FAILURE IS EXPOSED AFTER MILLING, REMOVE AREA OF FAILURE TO SOUND PAVEMENT AND REPLACE WITH "D" MIX PRIOR TO PROPOSED OVERLAY.
- (33) THE CONTRACTOR SHOULD TAKE EXTREME CARE WHEN COLD PLANING THE EXISTING ASPHALT OFF BRIDGE DECK AS NOT TO DAMAGE THE EXISTING BRIDGE 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 TDOT PROJECT SUPERVISOR AT NO ADDITIONAL COST.
- (34) EXISTING CONCRETE POURED AROUND CATCH BASINS AT THE GUTTER SHALL NOT BE DAMAGED. THIS CONCRETE MUST REMAIN IN PLACE WITH ASPHALT TYING TO THE EXISTING CONCRETE. ANY DAMAGE WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
- (35) MILLING SHALL GO FLUSH WITH FACE OF THE PARAPET.

## PAVEMENT MARKING

- (36) THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL PAVEMENT MARKING. ANY CHANGE FROM THE EXISTING PAVEMENT MARKINGS MUST BE APPROVED BY THE REGION 2 TRAFFIC MANAGER.
- (37) EXISTING PAVEMENT MARKINGS IN THE EXCLUSION AREAS AND SIDE ROAD RADII SHALL BE RE-TRACED AS DIRECTED BY THE TDOT PROJECT SUPERVISOR DURING FINAL STRIPING.
- (38) RAMPS SHALL BE MARKED UP TO WHERE THEY CONNECT TO THE INTERSECTING ROADWAY.
- (39) THE CONTRACTOR WILL BE REQUIRED TO REMOVE EXISTING SNOWPLOWABLE MARKERS AND RAISED PAVEMENT MARKERS INCLUDING THOSE ON SHOULDERS AND RAMPS PRIOR TO PLACING SURFACE. ANY HOLES OR DIVOTS RESULTING FROM REMOVAL OF A MARKER THAT IN THE OPINION OF THE TDOT PROJECT SUPERVISOR PRESENTS A PROBLEM FOR TRAFFIC SHALL BE PATCHED WITH THE APPROPRIATE ASPHALT MATERIALS. THIS PATCH WORK WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (40) THE CONTRACTOR WILL BE REQUIRED TO INSTALL, TYPE 2 AND SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS AS SOON AS POSSIBLE AFTER THE COMPLETION OF THE SHOULDER PAVEMENT. THE FLEXIBLE DELINEATORS SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER THE SHOULDER STONE PLACEMENT.

## CLEANING DITCHES

- (41) DITCHES MAY NEED TO BE CLEANED OUT AS DIRECTED BY THE TDOT PROJECT SUPERVISOR. ALL COST ASSOCIATED WITH CLEANING DITCHES TO BE INCLUDED IN OTHER ITEMS.
- (42) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CLEANING OUT OR REMOVAL/REPLACEMENT OF DITCHES, SIDEDRAINS, AND CROSSEDRAINS, TO ENSURE THAT THE DRAINAGE FEATURES/ WATER-COURSES 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.

## GUARDRAIL

- (43) ALL EXISTING GUARDRAIL REMOVED FROM THIS PROJECT IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- (44) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE CONSTRUCTING EARTH PADS FOR THE TYPE 38 TERMINALS TO ENSURE THAT ENVIRONMENTAL FEATURES (STREAMS, WETLANDS OR SPRINGS) ARE NOT IMPACTED DURING CONSTRUCTION. IF THE CONTRACTOR/TDOT INSPECTOR IS UNSURE WHETHER THE ENVIRONMENTAL FEATURES ARE STREAMS, WETLANDS OR SPRINGS, THE INSPECTOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION SO AN ACCURATE DETERMINATION CAN BE ASSESSED.
- (45) 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 5 INCHES IN DIAMETER ARE REQUIRED TO BE REMOVED, CONTACT THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION IMMEDIATELY. DUE TO THE RECENT MODIFICATION OF THE USFWS STANCE REGARDING THE INDIANA B AT, NO TREES > 5" DBH SHOULD BE CUT WITHOUT CLEARANCE FROM THE TDOT ENVIRONMENTAL DIVISION ECOLOGY SECTION.

## NPDES

- (46) DUE TO THE TYPE OF WORK, IT IS OUR UNDERSTANDING THAT THE PROJECT WILL NOT DISTURB MORE THAN ONE ACRE. IF THE DISTURBED ARE IS MORE THAN ONE ACRE, PLEASE CONTACT THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION BECAUSE A NPDES PERMIT WILL BE REQUIRED.

## MISCELLANEOUS

TIME ON THE PROJECT WILL START THE DAY THAT CONSTRUCTION SIGNS ARE PUT UP OR IN ACCORDANCE WITH SP108B IF A MAXIMUM AMOUNT OF CALENDAR DAYS IS SPECIFIED.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SPECIAL  
NOTES