TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2015	HSIP-291(10) HSIP-96(40)	2
		71008-3203-94 71008-4203-04	
		44011-3200-94 44011-4200-04	
		71031-3212-94 71031-4212-04	

PUTNAM SR 291 ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)-	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	62
(2)(3)-	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	9
(4)-	411-03.07	ACS MIX(PG64-22) THIN LIFT CS ASPHALT	TON	1446
	712-01	TRAFFIC CONTROL	LS	0.2
(5)-	712-06	SIGNS (CONSTRUCTION)	S.F.	616
(6)-	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	8
	717-01	MOBILIZATION	LS	0.2

FOOTNOTES

(1) TO BE USED ON COUNTY ROADS AS DIRECTED BY TDOT PROJECT SUPERVISOR.
(2) INCLUDES 0.6 TONS FOR SIDE ROADS AND ENTRANCES.
(3) MATERIAL TRANSFER DEVICE SHOULD NOT BE USED DUE TO ROAD BEING TOO NARROW, AND NOT STABLE ENOUGH TO SUPPORT THE MATERIAL TRANSFER DEVICE.
(4) SKID RESISTANT MATERIAL TO BE USED.
(5) SEE CONSTRUCTION SIGN TABULATION BLOCK THIS SHEET FOR DETAILS.
(6) TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LANE LINES.

PUTNAM SR 291 ESTIMATED SAFETY QUANTITIES

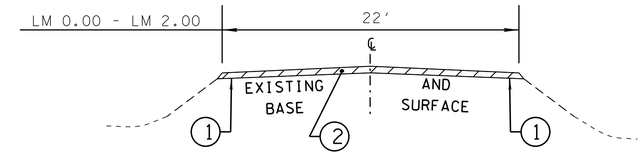
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(S1)(S2)-	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	105
	411-12.04	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (4IN WIDTH)	L.M.	3.2
(S2)-	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
	706-01	GUARDRAIL REMOVED	L.F.	200
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	1
(S3)-	712-04.02	FLEXIBLE DRUMS (CHANNELIZATION)	EACH	10
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
(S4)-	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	140
(S5)-	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	180
(S5)-	716-03.03	PLASTIC WORD PAVEMENT MARKING (STOP AHEAD)	EACH	1
(S4)(S6)-	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	8

FOOTNOTES

(S1) TO BE USED FOR GUARDRAIL ANCHOR PADS AS DIRECTED BY TDOT PROJECT SUPERVISOR.
(S2) SEE GUARDRAIL TABULATION BLOCK THIS SHEET FOR DETAILS.
(S3) FOR GUARDRAIL PROTECTION AT EXPOSED ENDS. SEE GENERAL NOTE NO. 3, SHEET 6
(S4) INCLUDES COST OF REMOVAL OF EXISTING PAVEMENT MARKERS.
(S5) 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.
(S6) FOR PERMANENT PAVEMENT MARKING ONLY.

PUTNAM SR 291 TABULATED GUARDRAIL

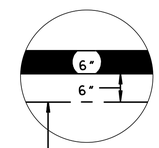
Log Mile	Log Mile	Side	Item No. 303-01 MIN AGG (TON)	Item No. 706-05 In-Line GR	Item No. 705-04.07 Type 38	Item No. 706-01 GR Removal
1.489	1.496	Lt. & Rt.	50		2	100.0
1.507	1.516	Rt.			1	50.0
1.507	1.516	Lt. & Rt.		1	1	50.0
TOTAL			50	1	4	200



TYPICAL SECTION

PROPOSED PAVEMENT SCHEDULE

1. TACK COAT (TC) APPLICATION RATE @ 0.07 GAL/S.Y. (DILUTED)
   ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
2. SURFACING THIN LIFT "CS" MIX @ 85 LBS/SY
   ITEM 411-03.07 ACS MIX (PG 64-22) THIN LIFT CS ASPHALT



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

PUTNAM SR 291 SIGNS (CONSTRUCTION) 712-06

QTY	MUTCD NO.	DESCRIPTION	SIZE IN	SIZE X IN	ITEM NO. 712-06 S.F.
2	G20-1	ROAD WORK NEXT 3 MILES	60	24	20
12	G20-2	END ROAD WORK	48	24	96
2	W3-4	BE PREPARED TO STOP	36	36	18
12	W8-11	UNEVEN LANES	36	36	108
8	W20-1	ROAD WORK AHEAD	48	48	128
4	W20-1	ROAD WORK 1 MILE	48	48	64
4	W20-1	ROAD WORK 1/2 MILE	48	48	64
4	W20-1	ROAD WORK 1000 FT	48	48	64
2	W20-4	ONE LANE ROAD AHEAD	36	36	18
2	W20-7a	FLAGGER	36	36	18
2	W21-2	FRESH OIL	36	36	18
		TOTAL			616

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.

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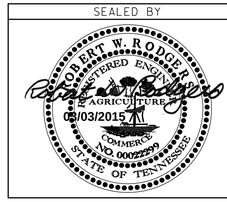

PUTNAM SR 291

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES, TYPICAL SECTION & DETAILS

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