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Joseph Burchfield Digitally signed by Joseph Burchfield

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TENNESSEE DEPARTMENT OF TRANSPORTATION 7512 VOLKSWAGEN DRIVE

CHATTANOOGA, TN 37416 JOSEPH H. BURCHFIELD, P.E. NO. 122745

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

EAR PROJECT NO. SHEET NO.

025 71951-3510-04 ROADWAY-SIGN4

REV. 09-30-25 SHEET ADDED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

DESCRIPTION

SAFETY DESIGN AND GUARDRAILS

OUTSIDE EDGE

CRASH CUSHION

DECKS

GUARDRAIL DETAILS

SPEED ROADWAYS

(RETROFIT)

DESIGN - TRAFFIC CONTROL

ROADS

CENTERLINE

FREEWAYS

DETAILS

CLEAR ZONE CRITERIA

SAFETY PLAN FOR BARRIER LENGTH OF NEED

GUARDRAIL AND BLOCK-OUT DETAILS

GUARDRAIL FASTENING HARDWARE

10-16-20 EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL

TYPE 21 GUARDRAIL END TERMINAL

ROADS AND MARKING ABBREVIATIONS

07-07-23 MARKING STANDARDS FOR TRAFFIC ISLANDS. PAVED

RUMBLE STRIPE INSTALLATION LAYOUT

04-02-12 ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND

INTERCONNECTED PORTABLE BARRIER RAIL

20 FOOT PORTABLE CONCRETE BARRIER RAIL

PORTABLE CONCRETE BARRIER RAIL DETAILS

PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN

TYPE 13 GUARDRAIL ANCHOR

SAFETY PLAN SAFETY HARDWARE PLACEMENT ON

SPECIAL CASE GUARDRAIL ATTACHMENT TO CONCRETE

SHORT – RADIUS GUARDRAIL SYSTEM (SRGS) DETAILS

SAFETY PLAN AT SIDEROADS OR DRIVEWAYS FOR LOW

GUARDRAIL GENERAL NOTES AND POST DETAILS

EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL

IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE

DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL

DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL

SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS

RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND

STANDARD INTERSECTION PAVEMENT MARKINGS

SHORT - RADIUS GUARDRAIL SYSTEM (SRGS)

REV.

06-28-19

07-30-24

01-09-24

06-15-21

06-28-19

01-28-22

07-07-23

01-09-24

07-30-24

06-28-19

01-09-24

06-28-19

01-09-24

07-30-24

12-09-22

12-09-22

01-28-22

12-09-22

SHEET N	NAME		SHEET NO.	DWG.	REV.	DESCRIPTION	DWG.
SIGNATUR	E SHEETS		ROADWAY-SIGN1-4	RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND	10-106.00
TITLE SHE	ET		1	DD 1 7	02 20 20	SEDIMENT CONTROL	S-CZ-1
ROADWAY	INDEX AND ST	TANDARD ROADWAY DRAWINGS	1A	RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	S-PL-1
STANDARD	D ROADWAY DE	RAWINGS	1A1	RD-L-8	02-20-20	STANDARD LEGEND FOR NATURAL STREAM DESIGN	S-PL-6
STANDARD	O STRUCTURE	AND TRAFFIC DESIGN DRAWINGS	1A2	10-101.00	ROADWA	Y DESIGN STANDARDS	0.004
PROJECT (COMMITMENTS	5	1B	RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS	S-CC-1
ESTIMATE	D ROADWAY Q	UANTITIES	2 – 2-1	RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED	S-GR31-1
ESTIMATE	D BOX BRIDGE	QUANTITIES	2A			ROADWAYS	S-GR31-1A
TYPICAL S	ECTIONS AND	PAVEMENT SCHEDULE	2B, 2B1, 2B2	RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS	S-GR31-1B
GENERAL I	NOTES		2C, 2C1	RD11-TS-1	06-28-19	DESIGN STANDARDS FOR LOW-VOLUME ROADS	S-GRS-2
SPECIAL N	IOTES		2D	RD11-TS-2	00 20 10	DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS	S-GR31-1C
ENVIRONM	MENTAL NOTES	S	2E	NDTT 10 2		AND STREETS	S-GRS-7
TABULATE	D QUANTITIES		2F, 2F1	RD11-TS-7B	07-17-20	DESIGN STANDARDS 2-LANE HIGHWAYS WITH	S-GRS-7A
RIGHT-OF-	WAY NOTES, L	JTILITY NOTES, AND UTILITY OWNERS	3			CONTINUOUS 2-WAY LEFT-TURN LANE	S-GRS-8
RIGHT-OF-	WAY ACQUISIT	TION TABLE AND PROPERTY MAP(S)	3A – 3C	RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS	S-GRT-2P
PRESENT I	LAYOUT(S)		4 – 7	RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT	S-GRT-2R
RIGHT-OF-	WAY DETAILS		4A – 7A	RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND	0-0K1-2K
PROPOSE	D LAYOUT(S)		4B – 7B			CONSTRUCTION	S-GRT-3
PROPOSE	D PROFILE(S)		4C – 6C	RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES	S-GRA-3
SIDE ROAD	OS PROFILE(S)		8 – 11	RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND	S-GRA-4
PRIVATE D	RIVE, BUSINES	SS, AND FIELD ENTRANCE PROFILE(S)	12 – 13			OBSTRUCTION	10-107.00
DRAINAGE	MAP(S)		14 – 15	RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS	T-M-1
CULVERT S	SECTION(S)		16 – 19	10-102.00	PIPE CU	LVERTS AND ENDWALLS	
EROSION F	PREVENTION A	AND SEDIMENT CONTROL PLANS		D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION	T-M-2
CION COLIF		C)	23-23D, 24-24C	D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1,	T-M-3
	•	S)		5 55 455		4:1 & 6:1 SLOPES)	
		ONS		D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES	T-M-4
		TONS		D-PE-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1,	T-M-16
TRAFFIC CONTROL PLANS						4:1 & 6:1 SLOPES)	T-M-16A
				D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE, BILL OF STEEL AND PRECAST NOTES	T-WZ-10
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS.			D-PE-30A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE WITH	1-442-10	
				2 . 2	30 20 10	STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)	T-WZ-PBR1
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN THE NUMBERING OF SHEETS.			D-PE-30B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE, BILL OF STEEL AND PRECAST NOTES	T-WZ-PCB2 T-WZ-PCB3	
10-100.00 AND LEG		RD ROADWAY TITLE SHEET, A	BBREVIATIONS,	D-PE-36A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)	T-WZ-PCB4
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TI	TLE SHEET	D-PE-36B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE, BILL OF STEEL AND PRECAST NOTES	
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THRO		D-NSD-30	05-01-20	SUBSTRATE RESTORATION	
RD-A-2		STANDARD ABBREVIATIONS M THRO		D-SEW-1A	07-07-23	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE,	
RD-L-1	02-20-20	STANDARD LEGEND		D OLVV-IA	31-01-23	FOR 15" THRU 48" PIPES, 6:1 SLOPE	
RD-L-1A		STANDARD LEGEND		10-104.00	ROADW	AY, PAVEMENT APPURTENANCES, AND	
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZAT	TION AND LIGHTING	FENCES			
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION		S-F-1	03-01-23	HIGH VISIBILITY FENCE	
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION P		RP-R-1A		STANDARD RAMP DETAILS FOR LOW VOLUME RURAL ROADWAYS	

TYPE	YEAR	PROJECT NO.	NO.
P.I.H.	2024	71951-3510-04	1A
PS&E	2025	71951-3510-04	1A

REV. 05-29-25 ROADWAY-SIGN2 ADDED TO INDEX.

REV. 09-24-25 ROADWAY-SIGN3 ADDED TO INDEX. ADDED S-GRA-4 AND S-GRS-8 TO STANDARD DRAWINGS.

REV. 09-30-25 ROADWAY-SIGN4 ADDED TO INDEX.



SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> ROADWAY INDEX STANDARD ROADWAY **DRAWINGS**

SEDIMENT CONTROL

	sht
	QUANT
	SIA\002_
	Sim
	Project
	00.07
	12897
	nty Folders\Putnam\128970.00 Project Sim SIA\002_QUANT.
∑	Folde
2:27:18	Con
9/30/2025	\Design
<u></u>	Σ

201-01	ONSTRUCTION STAKES, LINES AND GRADES LEARING AND GRUBBING EMOVAL OF PIPE (24", DITTY 20+45.00) EMOVAL OF PIPE (24", DITTY 22+76.00) EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (12", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING /ATER JRNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	LS LS LF. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. TON C.Y. C.Y. C.Y. L.F. C.Y. C.Y. EACH EACH EACH	QUANTITY 71951-3510-04 1 1 45 46 53 33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304 8243
201-01	LEARING AND GRUBBING EMOVAL OF PIPE (24", DITTY 20+45.00) EMOVAL OF PIPE (24", DITTY 22+76.00) EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (12", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	LS L.F. L.F. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. L.F. L.F. L.F. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. TON C.Y. TON C.Y. EACH EACH	45 46 53 33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-01.13	EMOVAL OF PIPE (24", DITTY 20+45.00) EMOVAL OF PIPE (24", DITTY 22+76.00) EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (18", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. C.Y. EACH EACH	45 46 53 33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-01.14 R 202-01.15 R 202-02.01 R 202-02.02 R 202-02.03 R 202-02.04 R 202-02.06 R 202-02.06 R 202-02.06 R 202-08.10 R 203-04 P (5) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (2) 203-06 W (2) 203-06 W (2) 203-07 F (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.08 E (1) 209-08.08 E (1) 209-09.03 S (2)(14) 303-01.01 M (2)(13) 307-01.08 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2)(16) 403-01 B (14) 407-20.05 S (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2 (17) 611-07.32 (1	EMOVAL OF PIPE (24", DITTY 22+76.00) EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (12", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. EACH EACH	46 53 33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-01.15	EMOVAL OF PIPE (48", DITTY 25+93.00) EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING (ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. C.Y. EACH EACH	53 33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-02.01 R 202-02.02 R 202-02.03 R 202-02.04 R 202-02.06 R 202-02.06 R 202-02.06 R 202-02.06 R 202-02.01 R 203-01 R (5) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (1) 209-03.21 F (1) (7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.03 E (1) 209-09.03 S (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (10)(11) 303-01.01 G (2)(13) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2)(16) 403-01 B (14) 407-20.05 S (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) 611-07.32 2 (17) (17) 611-07.32 2 (17)	EMOVAL OF PIPE (12", BAXTER 101+40) EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. EACH EACH	33 27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-02.02 R 202-02.03 R 202-02.04 R 202-02.06 R 202-02.06 R 202-02.06 R 202-02.06 R 202-02.01 R 203-02.01 R (5) 203-02.01 B (2) 203-06 V (2) 203-06 V (2) 203-07 F (1) 203-20.01 C (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.08 E (1) 209-08.08 E (1) 209-09.03 S (2)(14) 303-01.01 G (2)(13) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2)(16) 607-03.02 1 (2)(16) 6	EMOVAL OF PIPE (12", BAXTER 102+00) EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. EACH EACH	27 30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-02.03 R 202-02.04 R 202-02.06 R 202-08.10 R 202-08.10 R 203-01 R (1)(2)(3)(4) 203-01 R (2) 203-04 P (6) 203-05 U 203-06 W (2) 203-06 W (2) 203-07 F (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (2)(8)(9) 303-01 M (2)(13) 307-01.01 M (2)(13) 307-01.01 M (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2)(16) 403-01 B (14) 407-20.05 S (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (18) 611	EMOVAL OF PIPE (18", BAXTER 106+00) EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING /ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. C.Y. L.F. C.Y.	30 21 20 73 58036 30600 3706 10400 57 486 165 300 304
202-02.04 R 202-02.06 R 202-08.10 R 202-08.10 R 202-08.10 R 203-01 R (5) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (2) 203-07 F (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.03 E (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (2)(8)(9) 303-01 M (1)(12) 303-10.01 M (2)(13) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2)(16) 607-03.02 10 (2)(16) 607-03.02 10 (2)(16) 607-06.02 33 (2)(16) 607-07.02 33 (10)(17) 607-39.03 24 611-01.20 A (17) 611-07.31 15 (17) 611-07.31 15 (17) 611-07.32 25 (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17) (17)	EMOVAL OF PIPE (12", DITTY 26+84) EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING (ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. C.Y. L.F. EACH EACH	21 20 73 58036 30600 3706 10400 57 486 165 300 304
(1)(2)(3)(4) 203-01 R (2) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (1) 203-20.01 C (1) 203-20.01 C (1) 209-03.21 F (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.08 E (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 W (2)(8)(9) 303-01 M (1)(12) 303-10.01 G (1)(12) 303-10.01 G (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.07 A (2) 411-01.07 A (2) 411-01.01 C (2) (16) 607-03.02 16 (2)(16) 607-03.02 16 (2)(16) 607-39.03 26 (11) 611-07.31 16 (17) 611-07.32 26	EMOVAL OF PIPE (12", DITTY 30+52) EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING /ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	20 73 58036 30600 3706 10400 57 486 165 300 304
(1)(2)(3)(4) 203-01 R (5) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (2) 203-07 F (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 W (1)(12) 303-10.01 M (2)(13) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (2)(14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (17) (17) 611-07.31 15 (17) 611-07.32 2	EMOVAL OF CURB (TRACT 14 DRIVEWAY) OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING /ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	73 58036 30600 3706 10400 57 486 165 300 304
(1)(2)(3)(4) 203-01 R (5) 203-02.01 B (2) 203-04 P (6) 203-05 U 203-06 W (2) 203-07 F (1) 203-20.01 C (1) 209-03.21 F (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (2)(8)(9) 303-01 M (2)(13) 307-01.01 A	OAD & DRAINAGE EXCAVATION (UNCLASSIFIED) ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. TON C.Y. C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	58036 30600 3706 10400 57 486 165 300 304
(5) 203-02.01 B 203-04 P (6) 203-05 U 203-06 W (2) 203-07 F (1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.08 E (1) 209-09.03 S (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (2)(8)(9) 303-01 M (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.07 A (2) 411-01.07 A (2) 411-01.07 A (2) 411-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (17) 611-07.32 (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18) (17) (18)	ORROW EXCAVATION (GRADED SOLID ROCK) LACING AND SPREADING TOPSOIL NDERCUTTING /ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	TON C.Y. C.Y. M.G. C.Y. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	30600 3706 10400 57 486 165 300 304
(2) 203-04 P (6) 203-05 U 203-06 W (2) 203-07 F (1) 203-20.01 C (1) 209-03.21 F (1) 209-08.02 T (1) 209-08.02 T (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 G (1)(12) 303-10.01 M (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (2)(14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 16 (17) 611-07.32 2	LACING AND SPREADING TOPSOIL NDERCUTTING /ATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. C.Y. M.G. C.Y. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	3706 10400 57 486 165 300 304
(6) 203-05 U 203-06 W (2) 203-07 F (1) 203-20.01 C (1) 209-03.21 F (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 G (2) 307-01.01 A (2) (13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 16 (2)(16) 607-07.02 36 (16)(17) 607-39.03 26 (17) 611-07.31 16 (17) 611-07.31 16	NDERCUTTING VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. M.G. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	10400 57 486 165 300 304
(2) 203-06	VATER URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	M.G. C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	57 486 165 300 304
(2) 203-07 F (1) 203-20.01 C (1) 209-03.21 F (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	URNISHING & SPREADING TOPSOIL HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. C.Y. L.F. C.Y. L.F. EACH EACH	486 165 300 304
(1) 203-20.01 C (1) 209-03.21 F (1) 209-05 S (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	HANNEL SUBSTRATE LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. L.F. C.Y. L.F. EACH EACH	165 300 304
(1) 209-03.21 F (1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A 411-01.10 A 411-12.03 S (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17)	LTER SOCK (12 INCH) EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. C.Y. L.F. EACH	300 304
(1)(7) 209-05 S (1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2)(13) 307-01.08 A (2)(14) 402-02 A (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (14) 407-20.05 S (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (16)(17) 607-39.03 2 (16)(17) 607-39.03 2	EDIMENT REMOVAL EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	C.Y. L.F. EACH	304
(1) 209-08.02 T (1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	EMPORARY SILT FENCE (WITH BACKING) OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	L.F. EACH EACH	
(1) 209-08.07 R (1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 15 (17) 611-07.32 2	OCK CHECK DAM PER NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	EACH EACH	0243
(1) 209-08.08 E (1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 G (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	NHANCED ROCK CHECK DAM EDIMENT FILTER BAG (15' X 15')	EACH	145
(1) 209-09.03 S (1) 209-65.04 T (2)(8)(9) 303-01 M (10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	EDIMENT FILTER BAG (15' X 15')		41
(1) 209-65.04 T (2)(8)(9) 303-01 M (10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2			41
(2)(8)(9) 303-01 M (10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (2)(15) 403-01 B (2)(15) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	EMPORARY IN-STREAM DIVERSION	L.F.	240
(10)(11) 303-01.01 G (1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2)(14) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 G (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	INERAL AGGREGATE, TYPE A BASE, GRADING D	TON	13878
(1)(12) 303-10.01 M (2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (2)(15) 403-01 B (2)(14) 407-20.05 S (2) 411-01.07 A 411-12.03 S (2)(16) 607-03.02 1 (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	RANULAR BACKFILL (ROADWAY)	TON	2052
(2) 307-01.01 A (2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	INERAL AGGREGATE (SIZE 57)	TON	84
(2)(13) 307-01.08 A (2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) (16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	SPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1899
(2) 402-01 B (2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	SPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1559
(2)(14) 402-02 A (2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-39.02 1 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	TUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	26
(2)(15) 403-01 B (14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	GGREGATE FOR COVER MATERIAL (PC)	TON	64
(14) 407-20.05 S (2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	ITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	10
(2) 411-01.07 A (2) 411-01.10 A 411-12.03 S (2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	AW CUTTING ASPHALT PAVEMENT	L.F.	2800
(2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 (17) 611-07.31 1 (17) 611-07.32 2	CS MIX (PG64-22) GRADING E SHOULDER	TON	205
(2) 415-01.01 C (2)(16) 607-03.02 1 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	CS MIX(PG64-22) GRADING D	TON	1479
(2)(16) 607-03.02 12 (2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 12 (16)(17) 607-39.03 22 611-01.20 A (17) 611-07.31 12 (17) 611-07.32 22	CORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	2.6
(2)(16) 607-06.02 3 (2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	OLD PLANING BITUMINOUS PAVEMENT	TON	407
(2)(16) 607-07.02 3 (16)(17) 607-39.02 1 (16)(17) 607-39.03 2 611-01.20 A (17) 611-07.31 1 (17) 611-07.32 2	B" CONCRETE PIPE CULVERT (CLASS III)	L.F.	50
(16)(17) 607-39.02 16 (16)(17) 607-39.03 26 611-01.20 A (17) 611-07.31 16 (17) 611-07.32 26	O" CONCRETE PIPE CULVERT (CLASS III)	L.F.	54
(16)(17) 607-39.03 24 611-01.20 A (17) 611-07.31 14 (17) 611-07.32 24	6" CONCRETE PIPE CULVERT (CLASS III)	L.F.	112
(17) 611-07.31 1 (17) 611-07.32 2	B" PIPE CULVERT (SIDE DRAIN)	L.F.	287
(17) 611-07.31 1 (17) 611-07.32 2	4" PIPE CULVERT (SIDE DRAIN)	L.F.	47
(17) 611-07.32 2	DJUSTMENT OF EXISTING MANHOLE	EACH	1
` '	BIN ENDWALL (SIDE DRAIN)	EACH	19
(2)(16) 1611-07.55 I 1	IN ENDWALL (SIDE DRAIN)	EACH	4
`	BIN ENDWALL (CROSS DRAIN) 4:1	EACH	2
` ' '	DIN ENDWALL (CROSS DRAIN) 4:1	EACH	2
` ' '	SIN ENDWALL (CROSS DRAIN) 4:1	EACH	2
		EACH	1
(1)	JNCTION STRUCTURE, 48IN ROUND, > 4FT-8FT DEPTH	L.F.	50
` '	ETAL BEAM GUARD FENCE	EACH	778
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT	L.F.	778
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3	L.F. EACH	667 2
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST)	EACH	3
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST) R TERMINALTRAILING END (TYPE 13) MASH TL3		
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST) R TERMINALTRAILING END (TYPE 13) MASH TL3 R TERMINAL (IN-INLINE) MASH TL3	FACH	2
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST) R TERMINALTRAILING END (TYPE 13) MASH TL3 R TERMINAL (IN-INLINE) MASH TL3 HORT-RADIUS GUARDRAIL SYSTEM (16FT RADIUS) MASH TL-3	EACH EACH	
` '	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST) R TERMINALTRAILING END (TYPE 13) MASH TL3 R TERMINAL (IN-INLINE) MASH TL3 HORT-RADIUS GUARDRAIL SYSTEM (16FT RADIUS) MASH TL-3 HORT-RADIUS GUARDRAIL SYSTEM (48FT RADIUS) MASH TL-3	EACH	1()
	ETAL BEAM GUARD FENCE ARTH PAD FOR GUARD RAIL END TREATMENT / BEAM GR (TYPE 2) MASH TL3 / BEAM GR (TYPE 2) MASH TL3 (LONG POST) R TERMINALTRAILING END (TYPE 13) MASH TL3 R TERMINAL (IN-INLINE) MASH TL3 HORT-RADIUS GUARDRAIL SYSTEM (16FT RADIUS) MASH TL-3		10 225

		ESTIMATED ROADWAY QUANTITIES	S	
	ITEM NO.	DESCRIPTION	UNIT	QUANTIT` 71951-3510-
(1)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2585
19)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	180
12)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	315
20)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1317
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	350
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	4
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	128
	712-04.50	BARRIER RAIL DELINEATOR	EACH	6
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	28
	712-06	SIGNS (CONSTRUCTION)	S.F.	867
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	168
	712-09.08	REMOVABLE PAVEMENT MARKING (6" line)	L.F.	185
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	501
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	60
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	63
21)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
14)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
	713-16.07	END OF ROADWAY SIGN AND SUPPORT	EACH	3
	716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	140
	716-01.22	SNOWPLOWABLE RAISED PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	25
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	20
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	73
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	6
	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	327
	716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	0.1
23)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	3.6
4)	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	4
	717-01	MOBILIZATION	LS	1
25)	740-06.01	GEOMEMBRANE	S.Y.	50
8)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1502
6)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	22500
1)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	2389
	801-01	SEEDING (WITH MULCH)	UNIT	8
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	88
9)	801-01.37	NATVE SEED MX ENCAPULATION & CLEAR ZONE	UNIT	1
9)	801-01.38	NATVE SEED MX FINAL STABLIZATN OF SLOPES	UNIT	2
0)	801-03	WATER (SEEDING & SODDING)	M.G.	249
	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH	7
	802-12.01	ACER NEGUNDO (BOX ELDER SEEDLNG B.R.)	EACH	7
	802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	EACH	7
	802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	EACH	8
	802-12.37	QUERCUS PALUSTRIS (PIN OAK SEEDLNG B.R.)	EACH	7
	802-12.44	ULMUS AMERICANA (AMERICAN ELM SEEDLNG B.R.)	EACH	7
	803-01	SODDING (NEW SOD)	S.Y.	24203

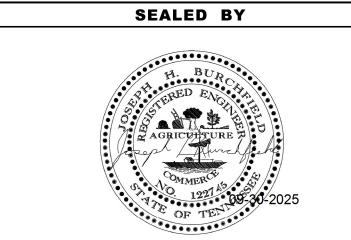
(SEE SHEET 2-1 FOR FOOTNOTES)

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.I.H.	2024	71951-3510-04	2
PS&E	2025	71951-3510-04	2

REV. 05-29-25 ITEMS 203-09.09 AND 208-01.05 REMOVED. ITEMS 201-01, 203-01, 203-02.01, 203-04, 203-06, 203-07, AND 203-20.01 ADDED. ITEMS 303-01.01, 415-01.01, AND 607-39.02 UPDATED. FOOTNOTES RENUMBERED.

REV. 09-24-25 ADDED ITEM 705-06.11.

REV. 09-30-25 UPDATED ITEMS 203-01 AND 713-13.03. ADDED ITEMS 203-05 AND 713-13.02.



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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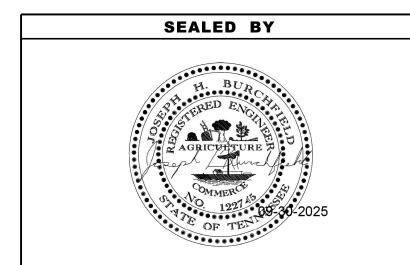
FOOTNOTES

- (1) SEE SECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- 2) SEE SHEET 2F FOR TABULATED QUANTITIES.
- (3) INCLUDES 499 CY FOR CULVERT PROTECTION (TYPE 1).
- 4) INCLUDES 430 C.Y. FOR SCARIFIED DRAINAGE CONTOUR AT WWC-2/EPH-1.
- (5) THIS ITEM TO BE USED BETWEEN STA. 8+50 TO 19+50, STA. 25+00 TI 27+00, AND BAXTER ROAD STA. 112+00 TO 113+00 OR OTHERWISE AS DIRECTED BY ENGINEER FOR THE STABILIZATION OF SUBGRADE. SEE SHEET G2.
- (6) ITEM TO BE USED AS INDICATED IN THE GEOTECHNICAL PLANS.
- (7) INCLUDES 69 C.Y. FOR SEDIMENT FILTER BAGS.
- (8) INCLUDES 45 TONS TO BE USED FOR TRAFFIC CONTROL.
- (9) INCLUDES 369 TONS TO BE USED FOR DRIVEWAYS.
- 10) SEE SHEET G2 FOR DETAILS ON USE BETWEEN STA. 26+50 TO STA. 27+00.
- (11) INCLUDES 2032 TONS FOR BOX BRIDGE AND 20 TONS TO BE USED AS INDICATED IN THE GEOTECHNICAL PLANS.
- (12) INCLUDES 38 TONS TO BE USED FOR CULVERT PROTECTION (TYPE 1) AND 46 TONS TO BE USED FOR SEDIMENT FILTER BAGS.
- (13) INCLUDES 12 TONS TO BE USED FOR TRAFFIC CONTROL.
- (14) ITEM TO BE USED AS DIRECTED BY THE ENGINEER.
- (15) INCLUDES 0.1 TONS TO BE USED FOR TRAFFIC CONTROL.
- (16) BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PIPE CULVERT.
- (17) SEE SHEET 2F1 FOR TABULATED QUANTITIES.
- (18) INCLUDES 100 TONS FOR TEMPORARY CONSTRUCTION EXITS.
- (19) INCLUDES 80 TONS TO BE USED AS INDICATED IN THE GEOTECHNICAL PLANS
- (20) INCLUDES 1285 TONS FOR WINGWALL STABILIZATION
- (21) INCLUDES RIGHT TURN SIGN (STA 55+50), SPEED LIMIT SIGN (STA 52+50), AND YIELD SIGN (STA 50+50) ON EXISTING DITTY ROAD. 3 STOP SIGNS (STA 111+65, 112+70, 113+55), 3 INTERSTATE ROUTE SIGNS (STA 112+90, 112+90, 109+00), 2 TWO-DIRECTION LARGE ARROW SIGNS (STA 111+25, 112+50), 2 INTERSECTION WARNING SIGNS (STA 112+50, 108+00), NOTICE SIGN (STA 114+25), SPEED LIMIT SIGN (STA 110+00) ON BAXTER ROAD.
- (22) TO BE USED FOR TEMPORARY PAVEMENT MARKINGS.
- (23) INCLUDES 2.6 L.M. TO BE USED AS GUIDE FOR RUMBLE
- (24) TO BE USED FOR PERMANENT PAVEMENT MARKINGS.
- (25) GEOMEMBRANE MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS SPECIFIED IN SPECIAL PROVISION 740D.
- (26) INCLUDES 172 S.Y. FOR TEMPORARY CONSTRUCTION EXITS.
- (27) INCLUDES 998 S.Y. FOR CULVERT PROTECTION (TYPE 1).
- (28) INCLUDES 332 S.Y. FOR SEDIMENT FILTER BAGS.
- (29) PERMANENT VEGETATIVE STABILIZATION USING NATIVE OR NATURALIZED PERENNIAL VEGETATION MUST BE APPLIED TO ALL DISTURBED RIPARIAN AREAS (I.E., STREAMS, EPHEMERALS, WET WEATHER CONVEYANCES), INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER, AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM THE TNIPC (https://www.tnipc.org/landscaping/) GUIDANCE. PERMANENT VEGETATIVE STABILIZATION USING PLANTINGS ACCORDING TO TO TDEC EPSC HANDBOOK (https://tnepsc.org/handbook.asp) TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) MAY BE APPLIED BEYOND RIPARIAN AREAS. PERMANENT VEGETATIVE STABILIZATION USING PLANTINGS ACCORDING TO TDEC EPSC HANDBOOK TABLE 7.9-2 (ALLOWABLE SEED MIXES AND PLANTING DATES) SHOULD BE AVOIDED.
- (30) INCLUDES 7 M.G. FOR EROSION PREVENTION AND SEDIMENT CONTROL
- (31) SHALL NOT CONTAIN MONOFILAMENT NETTING.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
P.I.H.	2024	71951-3510-04	2	
PS&E	2025	71951-3510-04	2-1	

REV. 05-29-25 UPDATED FOOTNOTES.

REV. 09-30-25 UPDATED FOOTNOTES.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES