ITEM NO.	DESCRIPTION	UNIT	QUANTI 31001-3189
201-01	CLEARING AND GRUBBING	LS	1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	14523
203-01.09	ACID PRODUCING MATERIAL HAUL & TIP FEE	TON	5351
203-01.11	PRESPLITTING OF ROCK EXCAVATION	S.Y.	2756
203-11	SCALING AND TRIMMING	S.Y.	12683
209-05	SEDIMENT REMOVAL	C.Y.	33
209-08.07	ROCK CHECK DAM	EACH	15
209-08.08	ENHANCED ROCK CHECK DAM	EACH	7
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	3
307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	1551
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	18
411-03.10	ACS MIX(PG76-22) GRADING D	TON	1792
411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	2
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	3216
610-12.02	HORIZONTAL DRAINS	L.F.	1080
621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	164
622-01.05 707-02.43	SHOTCRETE 6 IN THICKNESS ROCK ANCHOR, TYPE I	S.F. L.F.	34002 24288
707-02.43	ROCK ANCHOR, TYPE II	L.F.	1178
707-02.44	ROCKFALL DRAPE (TYPE III)	S.Y.	14419
707-10.07	MARKERS (CONCRETE R.O.W. POSTS)	EACH	4
709-02.01	MACHINED RIP-RAP (CLASS A-3)	TON	100
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	191
712-01	TRAFFIC CONTROL	LS	101
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1720
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	984
712-04.50	BARRIER RAIL DELINEATOR	EACH	86
712-05.03	WARNING LIGHTS (TYPE C)	EACH	984
712-06	SIGNS (CONSTRUCTION)	S.F.	690
712-08.03	ARROW BOARD (TYPE C)	EACH	2
712-08.10	MOBILE MESSAGE SIGN UNIT W/ATTENUATOR	HOUR	250
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
716-01.06	TEMPORARY RAISED PAVEMENT MARKER,WHITE	EACH	256
716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	642
716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	642
716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	1826
716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	25644
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1.94
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	11421
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	2.2
717-01	MOBILIZATION	LS	1
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	250
740-11.02	TEMPORARY SEDIMENT TUBE 12IN TEMPORARY SEEDING (MITH MITH CH)	L.F.	135
801-01.07	TEMPORARY SEEDING (WITH MULCH) BONDED FIRED MATRIX HYDROMILL CH (W/DERMANIENT SEED)	UNIT	43 15
801-01.16 801-01.38	BONDED FIBER MATRIX HYDROMULCH (W/PERMANENT SEED) NATVE SEED MX FINAL STABLIZATN OF SLOPES	UNIT	15
801-01.36	SEEDING (WITHOUT MULCH)	UNIT	43
801-02	WATER (SEEDING & SODDING)	M.G.	10
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	4735

FOOTNOTES

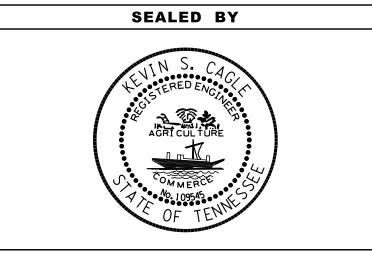
(1)	CLEARING AND GRUBBING ALONG THE SLOPE FACE AND MID-SLOPE BENCHES THAT EXTENDS
	10' ABOVE THE CREST OF THE ROCK SLOPE.

- QUANTITY INCLUDES MATERIAL REMOVED BY SCALING, TRIMMING, CLEARING, RESHAPING, AND EXCAVATION OF THE REMAINING BENCHES AS DIRECTED BY ENGINEER.
- (3) SEE GRADING SPECIAL NOTES ON SHEET 2D.
- (4) INCLUDES 14 CY FOR EPSC MEASURES.
- 5) QUANTITY INCLUDES MATERIAL REMOVED BY SCALING, TRIMMING, CLEARING, RESHAPING, AND EXCAVATION OF BENCHES THAT MAY BE CLASSIFIED AS ACID-PRODUCING ROCK.
- (6) INCLUDES QUANTITIES FOR REMOVING ADVERSE OVERHANGS ALONG ROCK FACE, BETWEEN STATION 207+50 TO STATION 209+25, STATION 216+00 TO STATION 218+00, AND STATION 219+00 TO STATION 222+50, AND AT THE DISCRETION OF THE ENGINEER.
- (7) REFER TO SPECIAL PROVISION 203E.
 - SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- 9) TO BE USED FOR TRAFFIC CONTROL. SEE SHEETS T2, T3 & T8.
- (10) INCLUDES 6 TONS TO BE USED FOR TRAFFIC CONTROL. SEE SHEETS T2, T3 & T8.
- 1) INCLUDES 1441 TONS TO BE USED FOR TRAFFIC CONTROL. SEE SHEETS T2, T3 & T8.
- (12) REFER TO SPECIAL REVISION 610HD.
- (13) QUANTITY INCLUDES SHOTCRETE, WIRE MESH, AND NO. 4 REBAR REINFORCEMENT ENCAPSULATING SHALE LAYERS ALONG ROCK FACE. REFER TO SECTION 622 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (14) QUANTITY INCLUDES FOOTAGE FOR SHOTCRETE DOWEL ANCHORS.
- (15) QUANTITY IS FOR FOOTAGE FOR ANCHOR INSTALLATION TO HOLD TYPE III DRAPE MESH ALONG TOP OF SLOPE CREST.
- 16) REFER TO SPECIAL PROVISION 707D.
- 17) INCLUDES 64 LOCATED ALONG INTERIOR SKIP LINES, 324 LOCATED ALONG OUTSIDE SHOULDER TRANSVERSE STRIPING, AND 254 LOCATED ALONG INSIDE SHOULDER TRANSVERSE MARKING THROUGH THE LIMITS OF SITE 1.
- 8) EXISTING TRANSVERSE SHOULDER STRIPING THROUGH THE LIMITS OF SITE 1 TO BE REMOVED DURING MILLING OPERATIONS AND REPLACED DURING FINAL PAVING.
- 19) INCLUDES REMOVAL OF EXISTING EDGE LINES AND SKIP LINES THROUGH THE LIMITS OF SITE 1 FOR PHASE 1 MOT. ADDITIONAL REMOVAL OF PAVEMENT MARKING (LINE) TO BE PAID FOR UNDER ITEM 712-01, TRAFFIC CONTROL.
- (20) TO BE USED AS DIRECTED BY THE ENGINEER ON AREA POTENTIALLY REQUIRING VEGETATIVE COVER BETWEEN EDGE OF PAVED SHOULDER AND ROCK FACE WITHIN THE ROCKFALL MITIGATION WORK ZONE.
- (21) TO BE USED AS DIRECTED BY THE ENGINEER ON AREA POTENTIALLY REQUIRING VEGETATIVE COVER ALONG BENCHES OR AS NEEDED BEYOND ROCK FACE WITHIN THE ROCKFALL MITIGATION WORK ZONE.
- PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.
- (23) INCLUDES 4 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

	R.O.V	V. MAR	KERS	
SHEET		QUANTITIES		
NO.	"A"	"B"	"C"	TOTALS
5	0	1	1	2
6	0	1	1	2
TOTALS	0	2	2	4

PAVEMENT QUANTITIES					
	PAY ITEMS				
LOCATION	307-03.08	403-01	411-03.10	415-01.01	
	(TON)				
I-24		11.7	1791.4	1774.5	
MOT	1550.9	5.9		1441.1	
TOTALS	1550.9	17.6	1791.4	3215.7	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2023	NH-I-24-2(170)	2



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES