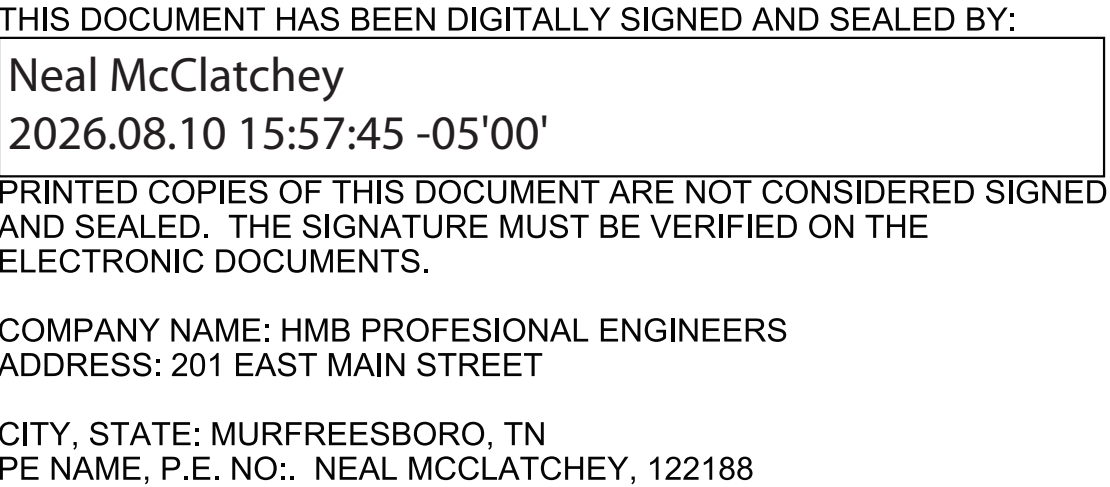




THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN2
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1, 2B2, 2B3
GENERAL NOTES.....	2C
TABULATED QUANTITIES	2F1, 2F2, 2F5
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN THE NUMBERING OF SHEETS.	

YEAR	PROJECT NO.	SHEET NO.
2026	HPP/NH-28 (37)	ROADWAY-SIGN 2


REVISED 8-10-26; ADDED SHEET TO PLANS.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

ROADWAY INDEX

SHEET NAME

SHEET NO.

DWG.

REV.

DESCRIPTION

SIGNATURE SHEETS.....	ROADWAY-SIGN1-2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
STANDARD STRUCTURE AND TRAFFIC OPERATIONS DRAWINGS	1A3
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES.....	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE.....	2B, 2B1, 2B2, 2B3
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E, 2E1
TABULATED QUANTITIES.....	2F, 2F1-2F8
DETAIL SHEETS	2G, 2G1-2G5
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A – 3N
PRESENT LAYOUT(S).....	4 – 17
RIGHT-OF-WAY DETAILS	4A – 17A
PROPOSED LAYOUT(S).....	4B – 17B
PROPOSED PROFILE(S).....	4C – 17C
SIDE ROADS PROFILE(S) ①.....	18 – 27
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S)	28 – 44
DRAINAGE MAP(S).....	45 – 51
CULVERT SECTION(S).....	52 – 61
EROSION PREVENTION AND SEDIMENT CONTROL PLANS.....	62-62B, 63-65N
SIGNING AND PAVEMENT MARKING PLAN(S)	66 – 79
SIGN SCHEDULE SHEET(S)	80 – 81
ROADWAY CROSS SECTIONS.....	100 – 256
SIDE ROAD CROSS SECTIONS	257 – 340
TRAFFIC CONTROL PLANS	T1 – T43
GEOTECHNICAL PLANS	G-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS S-1	
NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.	

10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8	02-20-20	STANDARD LEGEND FOR NATURAL STREAM DESIGN

10-101.00 STANDARDS ROADWAY DRAWINGS

RD18-TS-1		RURAL LOCAL ROADS (LOW-VOLUME)
RD18-TS-2A		RURAL LOCAL ROADS AND STREETS
RD18-TS-3A		RURAL MINOR COLLECTOR (2-LANE)
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-TS-1	06-28-19	DESIGN STANDARDS FOR LOW-VOLUME ROADS
RD11-TS-1A	06-28-19	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-S-11B		DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD-UD-3	01-09-24	UNDERDRAIN DETAILS
RD-UD-4	06-28-19	UNDERDRAIN LATERAL DETAILS
RD-UD-7	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-9	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES

STANDARD ROADWAY DRAWINGS

DWG.

REV.

DESCRIPTION

10-102.00 AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS

D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	03-01-23	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	06-28-19	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PE-15A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 15" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-15B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 15" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE, BILL OF STEEL AND PRECAST NOTES
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)
D-PE-36B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 36" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
D-SEW-1A	07-07-23	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
D-SEW-12D	07-07-23	TYPE “SAFETY” SIDE DRAIN ENDWALL WITH STEEL PIPE GRATE, FOR 18" PIPE, 12:1 SLOPE
SD-MSE-1	06-28-19	SIDE DRAIN MITERED END SECTION
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-5		RIP-RAP END TREATMENT FOR CORRUGATED METAL PIPE, OVAL AND PIPE ARCH CULVERTS WITH BEVELED ENDS (PIPE SIZES 42" & LARGER)

10-105.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

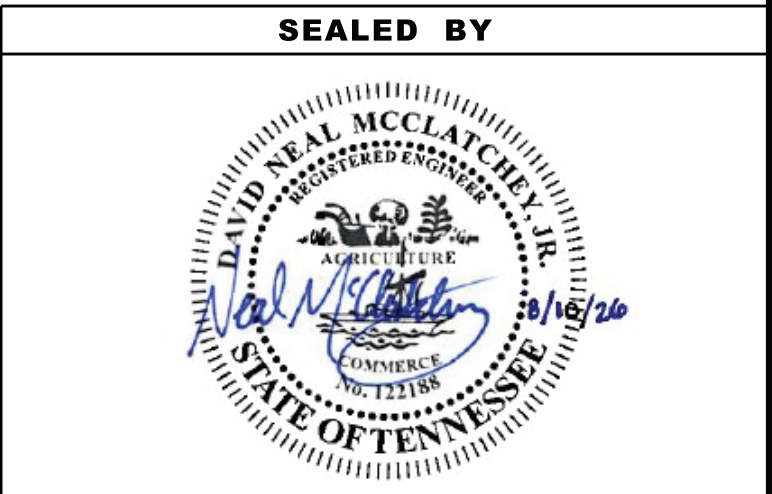
RP-D-16	04-01-25	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
S-F-1	03-01-23	HIGH VISIBILITY FENCE
S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

10-107.00 SAFETY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2018	NPP/NH-28 (37)	1A
PIH	2025	NPP/NH-28 (37)	1A
PS&E	2026	NPP/NH-28 (37)	1A

⚠️ REVISED 8-10-2026: ADDED ROADWAY-SIGN2 TO INDEX



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 18008-3229-14
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.4
108-03	CPM SCHEDULE	LS	0.4
201-01	CLEARING AND GRUBBING	LS	0.4
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	0.4
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	1,370
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	315,658
203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	22,763
203-04	PLACING AND SPREADING TOPSOIL	C.Y.	39,114
203-05	UNDERCUTTING	C.Y.	8,327
203-06	WATER	M.G.	7
203-20.01	CHANNEL SUBSTRATE	C.Y.	63
209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	866
209-02.08	24" TEMPORARY SLOPE DRAIN	L.F.	1737
209-02.09	30" TEMPORARY SLOPE DRAIN	L.F.	675
209-02.12	48" TEMPORARY SLOPE DRAIN	L.F.	112
209-05	SEDIMENT REMOVAL	C.Y.	1,679
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	7,502
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	13,055
209-08.07	ROCK CHECK DAM	EACH	35
209-08.08	ENHANCED ROCK CHECK DAM	EACH	35
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	4
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	107,719
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	324
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	383
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	5375
307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	7672
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	8304
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	5440
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	77
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	3115
411-01.10	ACS MIX(PG64-22) GRADING D	TON	3,151
411-02.10	ACS MIX(PG70-22) GRADING D	TON	3189
411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	4.9
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	875
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	589
607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	149
607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	100
607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	35
607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	149
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	2,780
607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	309
607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	63
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	54
611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1916
611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	144
611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	12
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	12
611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	3
611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	3
611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	7
611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	7
611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-07.62	30IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
611-07.65	36IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
611-07.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	2
621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	88
705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	2
705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	475

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 18008-3229-14
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2
707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	16378
707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	54
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	5936
708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	67
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	196
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	2244
709-05.08	MACHINED RIP-RAP (CLASS B)	TON	4210
709-05.09	MACHINED RIP-RAP (CLASS C)	TON	3349
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	35990
710-05	LATERAL UNDERDRAIN	L.F.	5400
710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	50
710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	128
712-01	TRAFFIC CONTROL	LS	0.4
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	479
712-05.01	WARNING LIGHTS (TYPE A)	EACH	60
712-06	SIGNS (CONSTRUCTION)	S.F.	762
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	300
713-02.21	SIGN POST DELINEATION ENHANCEMENT	L.F.	195
713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	1107
713-11.21	P POST SLIP BASE	EACH	29
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	293
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	8
713-14.21	STREET NAME SIGN (RIGID 0.100IN THICK	S.F.	57
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.4
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	243
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	840
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1.03
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	40
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	40
716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	1.03
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	11.5
716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	5.6
717-01	MOBILIZATION	LS	0.4
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	5454
740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	23,014
740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	1,748
801-01	SEEDING (WITH MULCH)	UNIT	1650
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2,146
801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	14
801-01.38	NATIVE SEED MIX FINAL STABILIZATN OF SLOPES	UNIT	7
801-02	SEEDING (WITHOUT MULCH)	UNIT	437
801-03	WATER (SEEDING & SODDING)	M.G.	1796
803-01	SODDING (NEW SOD)	S.Y.	39455
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	48536
806-02.03	PROJECT MOWING	CYCL	4

FOOTNOTES	
(1)	BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. SEE SHEET 2F FOR BREAKDOWN.
(2)	INCLUDES 794 C.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(3)	ROCK FILL FOR WETLANDS AND POND SEE SHEET 2G1 &2G2.
(4)	BASED ON 49.26 ACRES OF DISTURBED AREA. CALCULATED BY METHOD IN SECTION 10.04.62.2 IN DRAINAGE MANUAL.
(5)	ALL QUANTITIES ARE TO BE USED AS DIRECTED BY PROJECT ENGINEER.
(6)	INCLUDES QUANTITIES FOR TEMPORARY TRAFFIC CONTROL SEE TRAFFIC CONTROL SHEETS.
(7)	INCLUDES 5883 TONS FOR DRIVEWAYS, 1000 TONS FOR TRAFFIC CONTROL.
(8)	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.
(9)	SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
(10)	CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION
(11)	BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE STANDARD DRAWING NO. D-PB-1 AND D-PB-2 FOR ADDITIONAL DETAILS.
(12)	INCLUDES 53 TONS FOR CULVERT EWS AND 2191 TONS FOR EPSC.
(13)	INCLUDES 1580 MG FOR FINAL STABILIZATION AND 216 MG FOR EPSC.
(14)	TO BE USED FOR THE PUMPING/DRAINING OF ALL PONDS.
(15)	SEE GRADING SPECIAL NOTES ON SHEET 2D.

TYPE

YEAR

PROJECT NO.

SHEET NO.

R.O.W.

2020

HPP/NH-28 (37)

2A

PIH

2025

HPP/NH-28 (37)

2

PS&E

2026

HPP/NH-28 (37)

2

⚠

REVISED 8-10-2026: UPDATED QUANTITIES FOR 203-01, 203-04, 303-01, 307-01.08, 307-01.21, 307-02.01, 307-02.08, 403-01, 411-01.07, 411-01.10, 411-02.10, 607-07.02, 607-09.02, 611-07.65, & 801-01. REMOVED 604-10.51 & 611-07.64. ADDED 611-07.70.

SEALED BY

DAVID NEAL MCCLATCHY, P.E.

REGISTERED PROFESSIONAL ENGINEER

AGRICULTURE

NOVEMBER 1978

STATE OF TENNESSEE

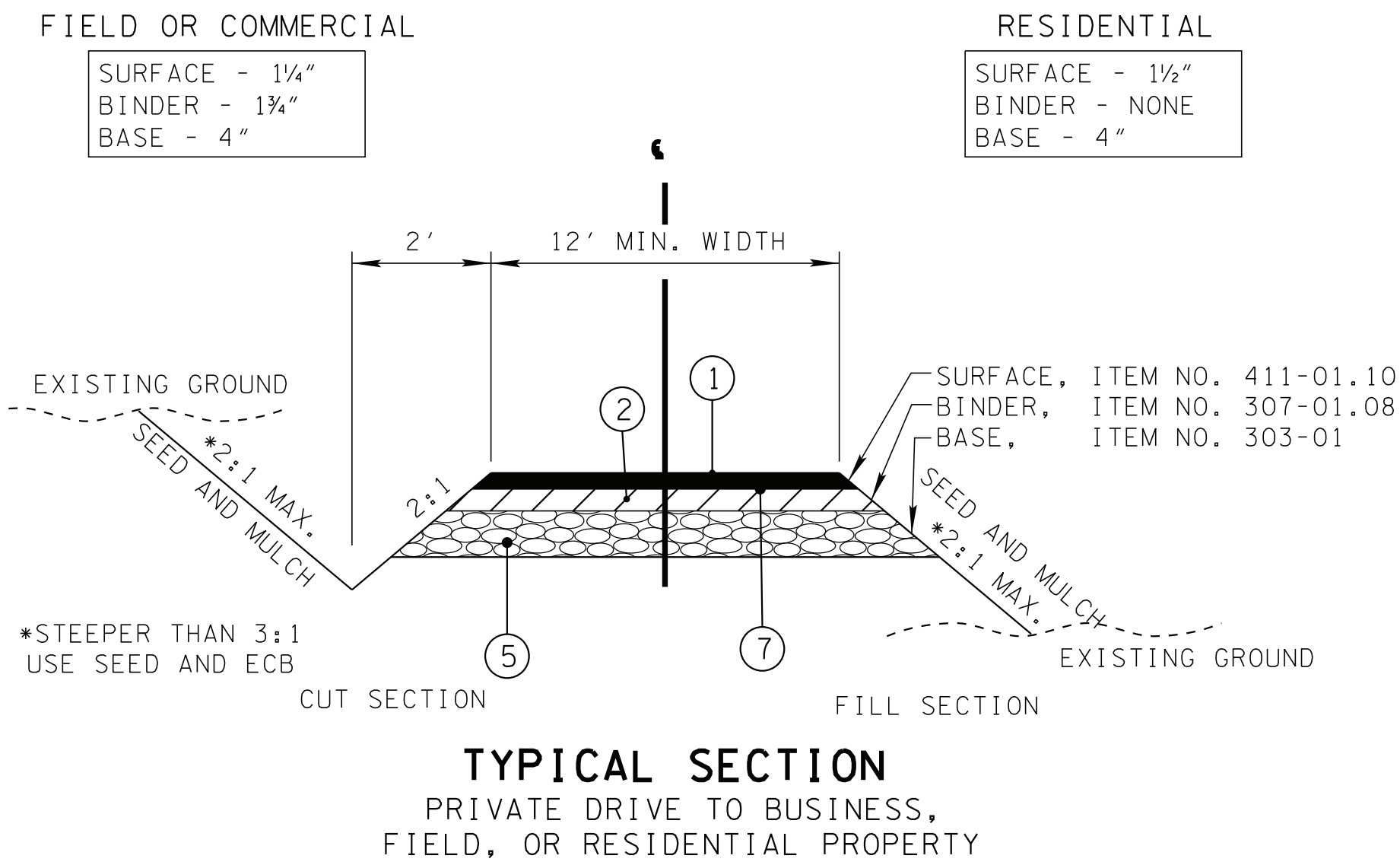
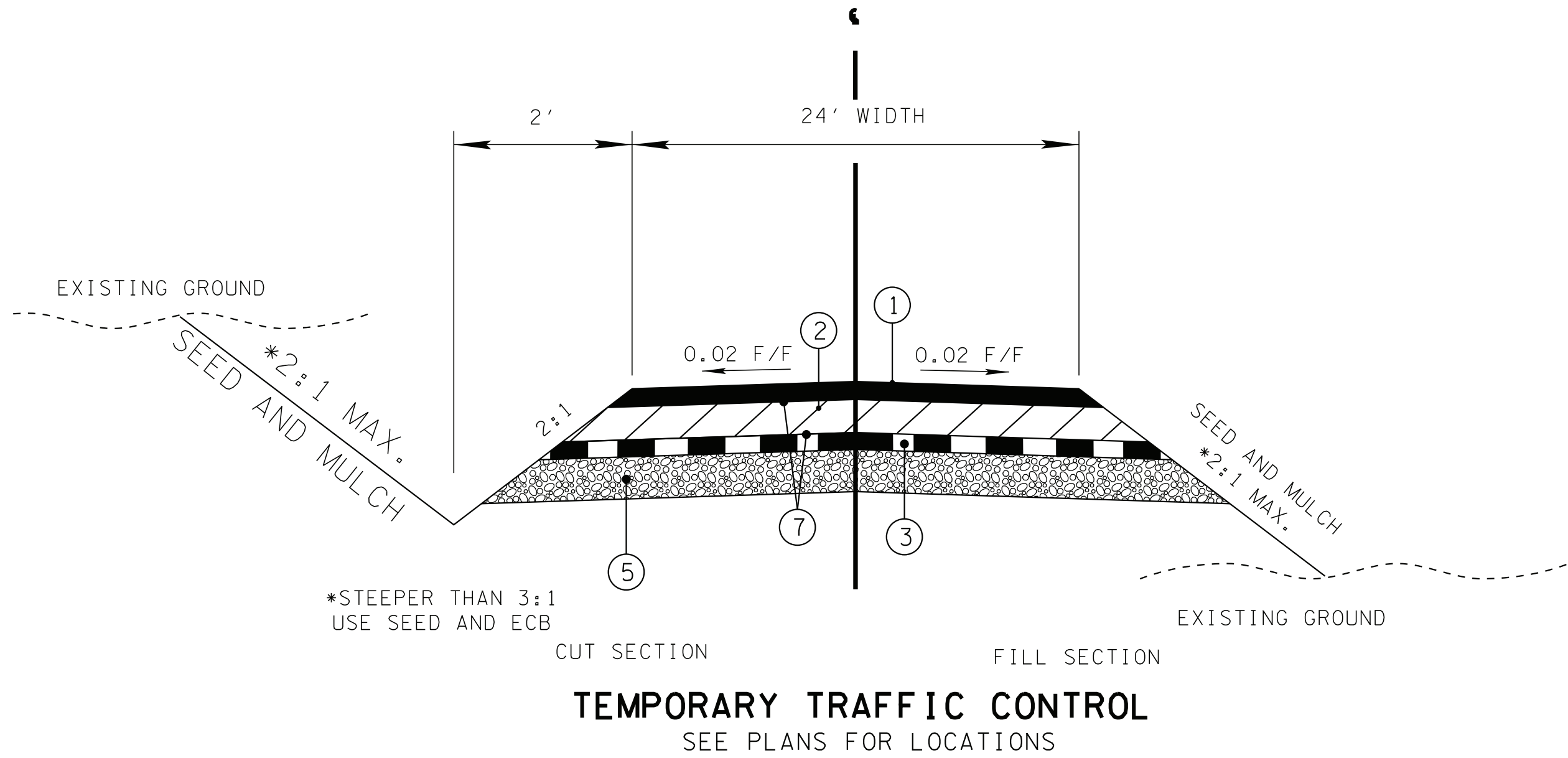
8/15/26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

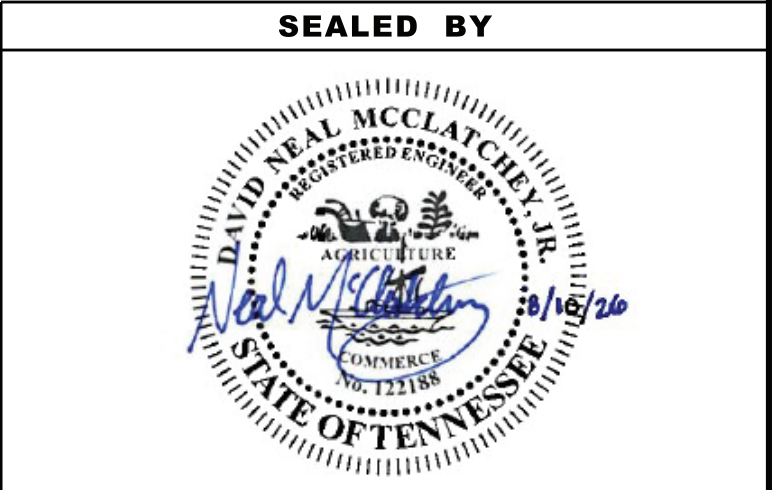
ESTIMATED
ROADWAY
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2017	HPP/NH-28 (37)	2A
ROW	2020	HPP/NH-28 (37)	2B2
PIH	2025	HPP/NH-28 (37)	2B2
PS&E	2026	HPP/NH-28 (37)	2B2

REVIS
REVISED 8-10-2026; UPDATED TYPICAL SECTIONS AND PAVEMENT SCHEDULE LABELS



- NOTES:
- 1 DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER
 - 2 ALL RADII ARE 15' FOR FIELD OR RESIDENTIAL AND 20' FOR COMMERCIAL, UNLESS OTHERWISE NOTED.
 - 3 FIELD ENTRANCES ARE TO BE ASPHALT FROM THE EDGE OF TRAVELED WAY TO THE PROPOSED R.O.W. AT WHICH POINT THEY BECOME GRAVEL.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2017	HPP/NH-28 (37)	2
ROW	2020	HPP/NH-28 (37)	2B3
PIH	2025	HPP/NH-28 (37)	2B3
PS&E	2026	HPP/NH-28 (37)	2B3

REVISD 8-10-2026: UPDATED PROPOSED PAVEMENT SCHEDULE

PROPOSED PAVEMENT SCHEDULE	
1 ASPHALTIC CONCRETE SURFACE (HOT MIX) GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING "D" - SIDEROADS AND TEMPORARY PAVEMENT 411-02.10 ACS MIX (PG70-22) GRADING "D" - MAINLINE	5 MINERAL AGGREGATE 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D" - MAINLINE 10", SIDEROADS 12", MAINLINE SHOULDERS 17.75", TEMPORARY 8"
2 BITUMINOUS PLANT MIX BASE (HOT MIX) GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2" - SIDEROADS AND TEMPORARY PAVEMENT 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2" - MAINLINE	6 ASPHALTIC CONCRETE SURFACE (HOT MIX) GRADING "E" SHOULDERS @ 1.50" THICK (APPROX. 154.5 LB./S.Y.) 411-01.07 ACS MIX (PG64-22) GRADING "E" SHOULDER - MAINLINE SHOULDERS
3 BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "A" @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A" - TEMPORARY PAVEMENT 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A" - MAINLINE	7 TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.05- 0.10 GALLONS/S.Y. - MAINLINE, SIDEROADS, AND TEMPORARY PAVEMENT
4 BITUMINOUS PLANT MIX BASE (HOT MIX) PG70-22 GRADING "A-S" @ 3.00" THICK (APPROX. 339 LB./S.Y.) 307-01.21 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A-S" - MAINLINE	8 UNDERDRAIN 710-02 AGGREGATE UNDERDRAINS (WITH PIPE) - MAINLINE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT
SCHEDULE

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.
- (2)

CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3)

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

SEEDING AND SODDING

- (1)

SEEDING AND SODDING ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL BE PAID AS ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED), IN ACCORDANCE WITH SECTION 203.10 OF THE STANDARD SPECIFICATIONS. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.
- (4)

ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

GUARDRAIL

- (1)

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 TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.
- (4)

GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

- (1)

THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (2)

EXCAVATION FOR PIPE CULVERTS AND STORM SEWERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (CHOOSE THE APPLICABLE ITEM(S) FROM THE FOLLOWING: PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- (3)

CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (4)

THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (5)

WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.

- (6)

DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

MISCELLANEOUS

- (1)

ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- (2)

THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3)

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.

ROAD CLOSURE

- (1)

NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- (1)

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 DAY'S 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

- (6)

THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

a.

BROOMING & DE-GRASSING SHOULDERS SHALL INCLUDE CLIPPING OF MATERIAL INTERFERING WITH PROPER DRAINAGE OF ROADWAY (INCLUDING PAVED AND GRAVEL SHOULDERS), AS DIRECTED BY THE ENGINEER.

b.

ALL MATERIAL FROM CLIPPING, BROOMING AND DE-GRASSING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE ENGINEER.

d.

REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (8)

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.
- (10)

PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) 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. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN 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

- (1)

THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (2)

THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.
- (3)

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.

GRADED SOLID ROCK

- (1)

THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.
- (2)

THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

- (2)

FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.
- (3)

THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.
- (4)

THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (5)

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 OPERATIONS OFFICE.
- (6)

THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC DESIGN DIVISION, SIGNING SECTION (TDOT.TrafficDesign.SignsandMarking@tn.gov) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.
- (7)

ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15.36 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- (8)

THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (9)

THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.
- (10)

THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2018	HPP/NH-28 (37)	2C
PIH	2025	HPP/NH-28 (37)	2C
PS&E	2026	HPP/NH-28 (37)	2C

 REVISED 8-10-2026: UPDATED SEEDING AND SODDING FOOTNOTE (1).



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

CROSS DRAIN TABULATION												
STATION	SKEW	RCP CLASS III OR CMP 10 GA OR PVC OR SRTRP OR HDPE OR PP FILL HEIGHT ≤ 16 FT. (L.F.)						END TREATMENT				REMARKS
								INLET		OUTLET		
		18"	24"	30"	36"	42"	48"	TYPE	DRAWING NO.	TYPE	DRAWING. NO.	
432+33.00	126° 06' 18"				100			"U"	36A,36B	"U"	36A, 36B	SR-28
471+98.00	90° 00' 00"	113						"U"	18A, 18B	"U"	18A, 18B	SR-28
477+00.00	85° 32' 12"		117					"U"	24A, 24B	"U"	24A, 24B	SR-28
486+84.00	76° 10' 31"	144						"U"	18A, 18B	"U"	18A, 18B	SR-28
497+30.00	74° 01' 24"	149						"U"	18A, 18B	"U"	18A, 18B	SR-28
503+75.00	90° 00' 00"		97					"U"	24A, 24B	"U"	24A, 24B	SR-28
532+65.00	90° 00' 00"		98					"U"	24A, 24B	"U"	24A, 24B	SR-28
547+00.00	90° 00' 00"			88				"U"	30A, 30B	"U"	30A, 30B	SR-28
562+45.00			135					"U"	24A, 24B	"U"	24A, 24B	SR-28
579+80.00	90° 00' 00"		79					"U"	24A, 24B	"U"	24A, 24B	SR-28
584+00.00	66° 02' 58"						115	"U"	48A,48B	"U"	48A, 48B	SR-28
589+53.00	116° 47' 01"	154						"U"	18A, 18B	"U"	18A, 18B	SR-28
27+50.00	90° 00' 00"	44						"U"	18A, 18B	"U"	18A, 18B	OLD ELMORE ROAD
38+94.00	90° 00' 00"	78						"U"	18A, 18B	"U"	18A, 18B	BEAR CREEK ROAD SOUTH
45+95.00	90° 00' 00"					35		"U"	42A, 42B	"U"	42A, 42B	HINDS ROAD
69+00.00	90° 00' 00"	33						"U"	18A, 18B	"U"	18A, 18B	SHELBY ROAD
89+14.00	90° 00' 00"	37						"U"	18A, 18B	"U"	18A, 18B	WINDSWEPT DRIVE
83+35.00	90° 00' 00"	41						"U"	18A, 18B	"U"	18A, 18B	J.K. BOWMAN LANE
101+25.00	90° 00' 00"			61				"U"	30A, 30B	"U"	30A, 30B	ATKINS ROAD
10+76.62	90° 00' 00"						34	"U"	48A, 48B	"U"	48A, 48B	FRONTAGE ROAD
122+50.00	90° 00' 00"	82						"U"	18A, 18B	"U"	18A, 18B	BEATY ROAD
154+78.47	90° 00' 00"		63					"U"	24A, 24B	"U"	24A, 24B	DIDDEN LOOP
TOTALS		875	589	149	100	35	149	Pipe Tabulation For Arterial Roadways				

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.		
MAINLINE		209270	185999	177880	SHRINK = 15 % SWELL = 15 %	
SIDE ROADS		50405	22313	42845		
SCARIFICATION		9700		8245		
					EXC. EMB.	
					228969 VS. -208312	
TOPSOIL (EMB.)					AVAILABLE = 20657	
TOPSOIL (EXC.)		45489				
TOPSOIL TOTALS (SEE TOPSOIL TABLE)					WASTE MATERIAL = 23756	
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	314864	208312	314864	269375	228969

TOPSOIL							
IF EXISTING TOPSOIL IS SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y. ①
2112160	45489	0	45489	39114	39114	0	6375

FOOTNOTES:
① EXCESS TOPSOIL TO BE USED AS 203-04 PLACING AND SPREADING TOPSOIL ON PIN 100260.03 (STP/NH/HPP-28(32); 18008-3230-14).

RIGHT OF WAY MARKERS				
SHEET NO.	Item #: 708-02.01			
	QUANTITIES			
	"A"	"B"	"C"	TOTALS
4	2	2	5	8
5	4		1	5
6	3		2	5
7	5			5
8	2		2	4
9	1	1	4	6
10	2		4	6
11	2			2
12	2			2
13	2	2	5	9
14			1	7
15	1		4	5
16	2		1	3
TOTALS	28	5	29	67

REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK		
PAY ITEM	TRACT NO.	DESCRIPTION
202-01	4	STONE SUBDIVISION SIGN, IRON GATE, 1250 LF WOOD FENCING
202-01	5	15 LF WOVEN/CHAIN-LINK FENCING
202-01	6	1S RANCH HOME, WODDEN SHED, SEPTIC SYSTEM, ALL TREES IN ACQUISITON AREA
202-01	7	1S RANCH HOME, FRAME GARAGE, WOOD STORAGE SHED, WOOD TOOL SHED, OVERHEAD LIGHT, FLAGPOLE, SEPTIC SYSTEM, ALL TREES IN ACQUISITION AREA
202-01	8	200 LF CHAIN LINK FENCING
202-01	9A	1S RANCH HOME, FRAME GARAGE, CONCRETE BLOCK SHED, SEPTIC SYSTEM
202-01	15	1S RANCH HOME, WELL APPROX. 125 LF, SEPTIC SYSTEM
202-01	17	GAS DISPENSERS
202-01	18	10 FRUIT TREES
202-01	19	1.5S FRAME HOME, 1S FRAME BARN, WELL APPROX. 125 LF, SEPTIC SYSTEM
202-01	19A	2S STEEL INDUSTRIAL BUILDING, 1 METAL CARPORT, WELL APPROX. 125 LF, SEPTIC SYSTEM
202-01	26	WROUGHT IRON GATGE, WROUGHT IRON FENCING APPROX. 75 LF
202-01	30	1S RANCH HOME (MAIN RESIDENCE ONLY), DETACHED CONCRETE BLOCK STORAGE BUILDING, 1 SEPTIC SYSTEM SERVING MAIN RESIDENCE ONLY
202-01	32	2 SEPTIC SYSTEMS (NO RESIDENCES ON TRACT, SYSTEMS ONLY)
202-01	35	1S RANCH HOME, ALL TREES IN ACQUISITION AREA, WOOD STORAGE SHED, WOOD EQUIPMENT SHED, WOOD HAY BARN, FARM POND, 700 LF WOVEN WIRE FENCE
202-01	38	1S MANUFACTURED HOME, SEPTIC SYSTEM
202-01	39	ALL TREES IN ACQUISITION AREA
202-01	42	1S RANCH HOME, 2 TREES, 11.5 LF WOOD PRIVACY FENCE, 24 FT DIAMETER ABOVE GROUND POOL W/ WOOD DECK, 1350 SF BASKETBALL COURT, SEPTIC SYSTEM
202-01	43	11 TREES
202-01	45	15 TREES
202-01	46	3 TREES
202-01	47	115 LF OF 4 RAIL WOOD FENCING
202-01	48	1 TREE, 180 LF BARBED WIRE FENCING, 839 LF WOVEN WIRE FENCING
202-01	49	1S MANUFACTURED HOME, 16 TREES, METAL GATE, 40 LF 2 RAIL WOOD FENCE, 3 METAL STORAGE BUILDINGS, SEPTIC SYSTEM
202-01	51	1S RANCH HOME, 18 TREES, WOOD STORAGE BUILDING W/WOOD FURNACE, WOOD STORAGE SHED, CONCRETE BLOCK STORAGE SHED, CONCRETE BLOCK PUMP HOUSE, 14X34 WORKSHOP (POST APPRAISAL CONST.), SEPTIC SYSTEM
202-01	56	6 TREES
202-01	58	1.5S FRAME HOME, CONCRETE BLOCK WELL HOUSE/SHED, SEPTIC SYSTEM, VARIOUS TREES IN ACQUISITION AREA
202-01	61	1S RANCH HOME, FRAME UTILITY SHED, SEPTIC SYSTEM, VARIOUS TREES IN ACQUISITION AREA
202-01	62	1S DOUBLE WIDE MOBILE HOME, WOODEN SHED, 27 TREES, 1 STEEL LIGHTING POLE
202-01	63	542 LF WIRE MESH FENCING
202-01	64	1S ABANDONED STRUCTURE
202-01	66	1S SINGLE WIDE MOBILE HOME, 2 WOODEN SHEDS
202-01	67	6 TREES
202-01	68	1 TREE
202-01	76	1 TREE
202-01	79	1S METAL INDUSTRIAL STRUCTURE, 1S CONCRETE BLOCK WAREHOUSE, 1S FRAME OFFICE, TRUCK SCALE, 1S MOBILE HOME OFFICE, 850 LF CORRUGATED METAL FENCING, APPROX. 50,000 SF GRAVEL PARKING, SEPTIC SYSTEM

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	HPP/NH-28 (37)	2E1
PIH	2025	HPP/NH-28 (37)	2F1
PS&E	2026	HPP/NH-28 (37)	2F1

⚠️ REVISED 8-10-2026: UPDATED CROSS DRAIN TABULATION, ESTIMATED GRADING QUANTITIES, AND TOPSOIL QUANTITIES. ADDED FOOTNOTE TO TOPSOIL QUANTITIES.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

CROSS DRAIN \ MEDIAN DRAIN ENDWALLS																			
LOCATION	STATION	OFFSET (FT.)	SKEW	TYPE	STANDARD DRAWING NO.	RIP-RAP	GEOTEXTILE	SAFETY ENDWALLS (ITEM NO. 611-07.54 THRU 611-07.69 SERIES)											
						CLASS	TYPE III	18 IN.	18 IN.	18 IN.	24" IN.	24" IN.	30" IN.	30" IN.	36" IN.	42" IN.	48" IN.	48" IN.	
						A1		3:1	4:1	6:1	4:1	6:1	3:1	6:1	6:1	3:1	3:1	4:1	
						709-05.06 (TON)	740-10.03 (S.Y.)	611-07.54 (EACH)	611-07.55 (EACH)	611-07.56 (EACH)	611-07.58 (EACH)	611-07.59 (EACH)	611-07.60 (EACH)	611-07.62 (EACH)	611-07.65 (EACH)	611-07.66 (EACH)	611-07.69 (EACH)	611-07.70 (EACH)	
SR-28	431+77.61	75.95	126° 06' 18"	U	D-PE-36A	5	11								1				
SR-28	432+36.53	-4.86	126° 06' 18"	U	D-PE-36A										1				
SR-28	471+98.00	83	90° 00' 00"	U	D-PE-18A					1									
SR-28	471+98.00	-30	90° 00' 00"	U	D-PE-18A					1									
SR-28	476+97.58	-30.91	85° 32' 12"	U	D-PE-24A						1								
SR-28	477+06.72	85.74	85° 32' 12"	U	D-PE-24A						1								
SR-28	486+74.45	-38.84	76° 10' 31"	U	D-PE-18A				1										
SR-28	487+08.85	100.99	76° 10' 31"	U	D-PE-18A				1										
SR-28	486+74.75	-24.03	74° 01' 24"	U	D-PE-18A					1									
SR-28	497+64.13	119.21	74° 01' 24"	U	D-PE-18A	2	6		1										
SR-28	503+75.00	86	90° 00' 00"	U	D-PE-24A	2	6				1								
SR-28	503+75.00	-11	90° 00' 00"	U	D-PE-24A						1								
SR-28	532+65.00	80	90° 00' 00"	U	D-PE-24A							1							
SR-28	532+65.00	-18	90° 00' 00"	U	D-PE-24A	2	6					1							
SR-28	547+00.00	82.7	90° 00' 00"	U	D-PE-30A	4	9							1					
SR-28	547+00.00	-5.3	90° 00' 00"	U	D-PE-30A									1					
SR-28	562+39.31	-21.25	75° 00' 00"	U	D-PE-24A	2	6				1								
SR-28	562+74.25	109.15	75° 00' 00"	U	D-PE-24A						1								
SR-28	579+80.00	75	90° 00' 00"	U	D-PE-24A	2	6					1							
SR-28	579+80.00	4	90° 00' 00"	U	D-PE-24A							1							
SR-28	583+89.00	-23.76	66° 02' 58"	U	D-PE-48A													1	
SR-28	584+43.84	98.7	66° 02' 58"	U	D-PE-48A	5	11											1	
SR-28	588+98.87	109.13	116° 47' 01"	U	D-PE-18A	4	8				1								
SR-28	589+67.49	-28.55	116° 47' 01"	U	D-PE-18A							1							
OLD ELMORE RD.	27+50.00	24	90° 00' 00"	U	D-PE-18A	2	6	1											
OLD ELMORE RD.	27+50.00	-20	90° 00' 00"	U	D-PE-18A			1											
BEAR CREEK RD. S.	38+94.00	38	90° 00' 00"	U	D-PE-18A			1											
BEAR CREEK RD. S.	38+94.00	-40	90° 00' 00"	U	D-PE-18A	2	6	1											
HINDS RD.	45+95.00	17	90° 00' 00"	U	D-PE-42A											1			
HINDS RD.	45+95.00	-18	90° 00' 00"	U	D-PE-42A	4	9									1			
SHELBY ROAD	69+00.00	16	90° 00' 00"	U	D-PE-18A			1											
SHELBY ROAD	69+00.00	-17	90° 00' 00"	U	D-PE-18A	2	6	1											
J.K. BOWMAN LANE	83+35.00	22	90° 00' 00"	U	D-PE-18A	2	6	1											
J.K. BOWMAN LANE	83+35.00	-19	90° 00' 00"	U	D-PE-18A			1											
WINDSWEPT DRIVE	89+14.00	19	90° 00' 00"	U	D-PE-18A	2	6	1											
WINDSWEPT DRIVE	89+14.00	-18	90° 00' 00"	U	D-PE-18A			1											
ATKINS ROAD	101+25.00	30	90° 00' 00"	U	D-PE-30A								1						
ATKINS ROAD	101+25.00	-31	90° 00' 00"	U	D-PE-30A	2	6						1						
FRONTAGE ROAD	10+76.62	17.59	90° 00' 00"	U	D-PE-48A	5	11										1		
FRONTAGE ROAD	10+76.62	-15.49	90° 00' 00"	U	D-PE-48A												1		
BEATY ROAD	122+50.00	42	90° 00' 00"	U	D-PE-18A	2	6	1											
BEATY ROAD	122+50.00	-41	90° 00' 00"	U	D-PE-18A			1											
DIDEN LOOP	154+78.47	30.05	90° 00' 00"	U	D-PE-24A							1							
DIDEN LOOP	154+78.47	-32.34	90° 00' 00"	U	D-PE-24A	2	6					1							
TOTALS						53	137	12	3	3	7	7	2	2	2	2	2	2	

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	HPP/NH-28 (37)	2E2
PIH	2025	HPP/NH-28 (37)	2F2
PS&E	2026	HPP/NH-28 (37)	2F2

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REVISED 8-10-2026: UPDATED ENDWALLS
FOR STA. 584+00.00 CROSS DRAIN TO 48"
4:1 611-07.70.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	HPP/NH-28 (37)	2E5
PIH	2025	HPP/NH-28 (37)	2F5
PS&E	2026	HPP/NH-28 (37)	2F5

REVIS
REVISED 8-10-2026: REVISED PAVEMENT QUANTITIES

PAVEMENT QUANTITIES												
LOCATION (ROADWAY)	ALTERNATE	TYPE - GRADE - PAY ITEM (TON)									AGGREGATE UNDERDRAINS (WITH PIPE) (LF)	
		MINERAL AGG.	BITUMINOUS PLANT					TACK COAT	ASP. CONC.			
			MIX BASE (HOT MIX)						SURFACE (HOT MIX)			
			PG64-22	PG70-22					PG64-22			PG70-22
			D	B-M2	A	A-S	B-M2		D	E		D
		303-01	307-01.08	307-02.01	307-01.21	307-02.08	403-01	411-01.10	411-01.07	411-02.10	710-02	
SR-28		80903		8304	7672	5440	56.7		3115	3189	35990	
Catoosa Ridge Drive		951	140				0.6	82				
Old Elmore Road		1776	255				1.0	150				
Bear Creek Road S.		1195	173				0.7	102				
Hinds Road		1233	174				0.7	102				
Buck Lane		1295	184				0.8	108				
Shelby Road		1092	156				0.6	91				
J.K. Bowman Lane		979	140				0.6	82				
Windswept Drive		1099	161				0.7	94				
Ashmor Drive		1033	153				0.6	90				
Atkins Road		783	113				0.5	66				
Frontage Road		2737	391				1.5	229				
Bear Creek Road N.		1730	250				1.0	146				
Beaty Road		1386	201				0.8	118				
Butternut Ridge Road		1076	157				0.7	92				
N. Lowe Road		498	74				0.3	43				
Diden Loop		1071	154				0.6	91				
TOTALS		100836	2876	8304	7672	5440	68	1686	3115	3189	35990	

PROPOSED GUARDRAIL								
SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL	TERMINAL ANCHORS	REMARKS
						W BEAM GR (TYPE 2) MASH TL3 705-06.01 (L.F.)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	
		LT	RT	FROM	TO			
			x	594+50.00	600+00.00	475	2	
TOTALS						475	2	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES