

Alan E Jolly

Digitally signed by Alan E Jolly
DN: CN=Alan E Jolly,
DN:

BARGE DESIGN SOLUTIONS 615 3RD AVENUE SOUTH, SUITE 700 NASHVILLE, TN 37210 ALAN JOLLY, P.E. 125394

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.

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS... ESTIMATED ROADWAY QUANTITIES..

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

YEAR	PROJECT NO.	SHEET NO.	
2025	60455-3447-04	ROADWAY-SIGN-3	

REV 3-13-25: ADDED SHEET TO INDEX

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> SIGNATURE SHEET

ROADWAY INDEX

STANDARD ROADWAY DRAWING

DWG.

S-GRC-2M

S-GRC-6

S-GRT-1

S-GRT-2P

S-GRA-3

S-GRA-4

T-M-1

T-M-2

T-WZ-10

T-WZ-FAB1

EC-STR-3B

EC-STR-3C

EC-STR-3E

EC-STR-34

EC-STR-37

EC-STR-6A

EC-STR-11

CONSTRUCTION FORD

EC-STR-25

T-WZ-PBR2 02-28-20

REV.

07-07-23

10-29-21

10-16-20

01-09-24

DESIGN - TRAFFIC CONTROL

06-28-19

01-09-24

04-02-12

06-15-21

03-01-23

04-01-08

05-04-22

06-10-14

05-06-16

03-16-17

ROADS

FREEWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

SILT FENCE

SEDIMENT TUBE

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1
SIGNATURE SHEETS	ROADWAY-SIGN2
SIGNATURE SHEETS	ROADWAY-SIGN3
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F
RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE	3A
PROPERTY MAP	3B
PRESENT LAYOUT	4
RIGHT-OF-WAY DETAILS	4A
PROPOSED LAYOUT	4B
PROPOSED PROFILE	4C
CSX RAILROAD PROFILE	4D
PRIVATE DRIVE PROFILES	5
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	6 – 9
ROADWAY CROSS SECTIONS	10 – 21
TRAFFIC CONTROL PLANS	T1 – T3
BRIDGE PLANS	B-1 – B-2
GEOTECHNICAL PLANS	G-1 – G-4
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1
UTILITY PLANS	U1-1
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED NUMBERING OF SHEETS.	IN

DWG.	REV.	DESCRIPTION
STANDAR LEGENDS		AY TITLE SHEET, ABBREVIATIONS AND
RD-TP-1	09-26-16	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-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
ROADWA	Y DESIGN	STANDARDS
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
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-SA-1	01-09-24	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
ROADWA	Y, PAVEM	ENT APPURTENANCES, AND FENCES
RP-D-15	06-15-21	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-R-1	10-16-20	STANDARD RAMP DETAILS FOR ROADWAYS AND DRIVEWAYS
S-F-1	03-01-23	HIGH VISIBILITY FENCE
SAFETY D	ESIGN AN	ID 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-2M		SAFETY PLAN AT SIDE RSAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-3	03-01-23	SAFETY PLAN MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	01-09-24	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE

SAFETY PLAN SAFETY HARDWARE PLACEMENT ON

GUARDRAIL GENERAL NOTES AND POST DETAILS

GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER

GUARDRAIL AND BLOCK-OUT DETAILS

GUARDRAIL FASTENING HARDWARE

S-PL-6

S-GR31-1

S-GR31-1A

S-GR31-1B

S-GR31-1C

S-GRC-1M

07-30-24

06-15-21

06-28-19

07-07-23

OUTSIDE EDGE

WALL

GUARDRAIL DETAILS

	TYPE	YEAR	PROJECT NO.	SHEET NO.	
IGS	PS & E	2025	60455-3447-04	1A	
DESCRIPTION					
GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOCAL ROADS (ADT< 2000)	REV. 01-24-2 ADDED ROA	. 01-24-25: ED ROADWAY-SIGN2 TO INDEX			
10AD3 (AD1 > 2000)	DEV 02 42 0	DEV 02 42 25.			

GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW

TYPE 12 GUARDRAIL TERMINAL BURIED-IN-BACKSLOPE

DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL

DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL

ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND

DETAILS FOR WORK ZONE CHANNELIZATION DEVICES

EROSION CONTROL BLANKET FOR SLOPE INSTALLATION

EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL

SPEED ROADWAYS

TYPE 13 GUARDRAIL ANCHOR

03-01-23 IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE

ROADS AND MARKING ABBREVIATIONS

FLASHING YELLOW ARROW BOARD

SILT FENCE WITH WIRE BACKING

ENHANCED ROCK CHECK DAM

CULVERT PROTECTION TYPE 1

SILT FENCE FABRIC JOINING DETAILS

08-01-12 TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT,

REV. 03-13-25: ADDED ROADWAY-SIGN3TO INDEX

SEALED BY

STATE OF TENNESSEE **DEPARTMENT OF TRANSPORTATION**

> ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

	ESTIMATED ROADWAY QUANTITI	ES 	
ITEM NO	DESCRIPTION	UNIT	QUANTITY 60455-3447-04
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1203
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	1164
203-06	WATER	M.G.	14
203-07	FURNISHING AND SPREADING TOPSOIL	C.Y.	370
203-50	CONSTRUCTION OF HAUL ROAD	LS	1
209-05 209-08.0	SEDIMENT REMOVAL TEMPORARY SILT FENCE (WITH BACKING)	C.Y.	38 526
209-08.0		L.F.	935
209-08.0		EACH	2
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1367
303-10.0		TON	785
307-01.0		TON	279
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	4
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	14
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
411-01.1	ACS MIX(PG64-22) GRADING D	TON	172
607-39.0	18" PIPE CULVERT (SIDE DRAIN)	L.F.	94
701-02	CONCRETE DRIVEWAY	S.F.	3051
705-02.1		EACH	2
705-04.0	, ,	EACH	2
705-06.0	,	L.F.	663
705-06.2		EACH	4
706-01 706-06.0	GUARDRAIL REMOVED RADIUS RAIL	L.F.	986
706-06.0		EACH	50 2
700-10.2		L.F.	380
709-05.0		TON	362
709-05.0	,	TON	180
712-01	TRAFFIC CONTROL	LS	1
712-04.0	FLEXIBLE DRUMS (CHANNELIZING)	EACH	15
712-05.0	WARNING LIGHTS (TYPE A)	EACH	4
712-06	SIGNS (CONSTRUCTION)	S.F.	51
712-07.0	TEMPORARY BARRICADES (TYPE III)	L.F.	40
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
713-16.0		EACH	4
713-16.2		EACH	1
716-05.1	,	L.M.	0.15
716-13.0		L.M.	0.7
717-01 740-07.0	MOBILIZATION GEOGRID REINFORCEMENT TYPE 2	LS S.Y.	1 267
740-07.0		S.Y.	549
740-10.0		S.Y.	3331
740-11.0		L.F.	200
740-11.0		EACH	10
801-01.6		UNIT	20
801-02	SEEDING (WITHOUT MULCH)	UNIT	18
801-03	WATER (SEEDING & SODDING)	M.G.	8
803-01	SODDING (NEW SOD)	S.Y.	175
805-12.0	EROSION CONTROL BLANKET (TYPE I)	S.Y.	1881
803-01	SODDING (NEW SOD)	S.Y.	1

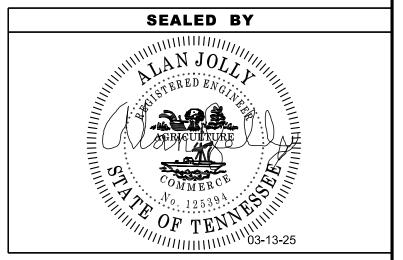
FOOTNOTES

- (1) SEE SHEET 2F FOR TABLE OF STRUCTURES AND OBSTRUCTIONS
- SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATONS FOR MAINTENANCE REPLACEMENT.
 ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- SINCE EXISTING GUARDRAIL HEIGHT IS LESS THAN 27 INCHES, TRANSITION LENGTH HAS BEEN LENGTHENED FROM 25 FT TO 50 FT.
- (4) 262 TONS TO BE USED FOR PERMANENT ABUTMENT STABILIZATION, REFER TO BRIDGE PLANS
- THE USE OF MONOFILAMENT TYPE EROSION CONTROL NETTING OR BLANKET IS PROHIBITED IN THE STREAM CHANNEL, STREAM BANKS, OR ANY RIPARIANAREAS BEING DISTURBED WITHIN 30 FEET OF TOP OF BANK. ECB MUST BE BIODEGRADABLE.
- (6) ONLY TO BE USED AS DIRECTED BY THE ENGINEER
- (7) INCLUDES 5 M.G. TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL
- (8) 100 TONS FOR 2 TEMP. CONST. EXITS.
- (9) 159 TONS FOR INLET PROTECTION AND 21 TONS FOR DITCH AT BRIDGE ENDS.
- (10) 377 S.Y. FOR CULVERT PROTECTION AND 172 S.Y. FOR USE WITH TEMP. CONST. EXITS
- (11) TO BE USED WITH PERMANENT RIP-RAP AT BRIDGE ABUTMENT SLOPES AND DITCHES AT BRIDGE ENDS.
- (12) 125 S.Y. FOR SPECIAL DITCH LINING AND 50 S.Y. FOR 2 FT-WIDE STRIP AT THE EDGE OF THE ABUTMENT RIP-RAP.
- (13) BEDDING MATERIAL SHALL BE INCLUDED IN COST OF PIPE.
- (14) INCLUDES COST OF REMOVAL OF 2 LOAD RATING SIGNS AND EXISTING S3-1 SIGN
- (15) SHALL BE USED AT ABUTMENT BACKFILL, SEE STD 10-2
- (16) 267 S.Y. SHALL BE USED AT ABUTMENT BACKFILL SEE STD 10-2
- (17) 755 TONS SHALL BE USED AT ABUTMENT BACKFILL SEE STD 10-2. 30 TONS FOR CLUVERT PROTECTION
- (18) SHALL BE USED ON ALL PAVEMENT MARKINGS ON BRIDGE DECK.
- (19) INCLUDES GEOTEXTILE (TYPE IV), BORROW EXCAVATION (GRADED SOLID ROCK), MINERAL (SIZE 57), AND TEMPORARY DRAINAGE PIPE(IF APPLICABLE). THE MINERAL AGGREGATE INCLUDES AN ADDITIONAL TEN(10) PERCENT FOR MAINTENANCE. INCLUDES HAUL ROAD COST FOR EACH SIDE OF BRIDGE ABUTMENTS FOR REMOVING EXISTING PIERS. SHALL INCLUDE REMOVAL OF ALL HAUL ROADS AND STABILIZATION OF ASSOCIATED AREAS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	60455-2447-04	2
PS & E	2025	60455-3447-04	2

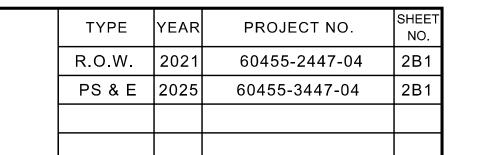
REV 01-24-25: REMOVED ITEM NO. 303-10.04

REV 03-13-25: ADDED ITEM NOS. 201-01 & 203-50. ADDED FOOTNOTE 19.

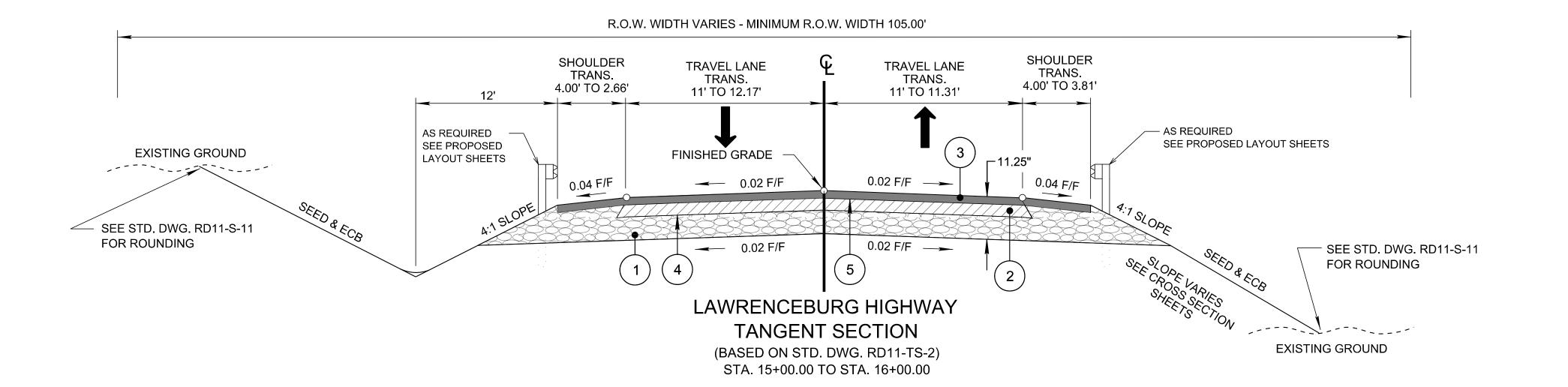


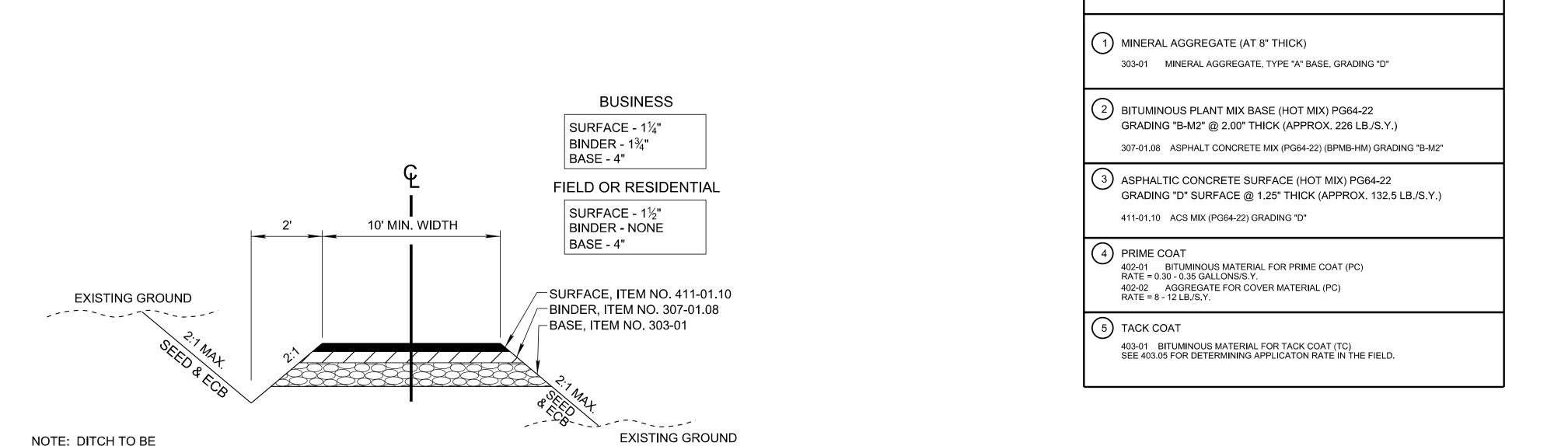
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

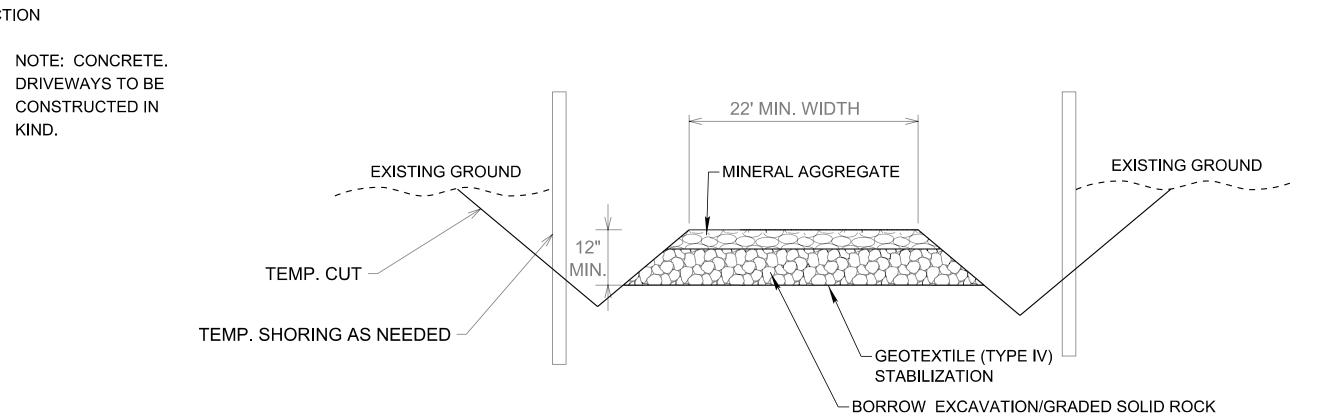
ESTIMATED ROADWAY QUANTITIES



REV 03-13-25: ADDED HAUL ROAD TYPICAL.

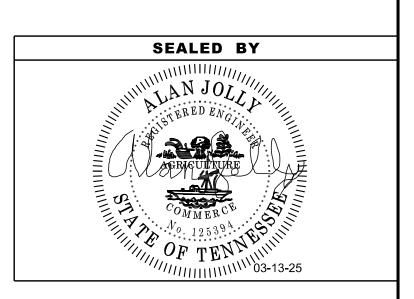






TYPICAL SECTION HAUL ROAD

PROPOSED PAVEMENT SCHEDULE



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

NOTE: DITCH TO BE

WHERE DIRECTED BY

CONSTRUCTED

THE ENGINEER

CUT SECTION

FILL SECTION

KIND.

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,

FIELD, OR RESIDENTIAL PROPERTY