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BUCHART HORN, INC.
3150 LENOX PARK BLVD.
SUITE 300
MEMPHIS, TN. 38115
WM. ANDREW PINKLEY, P.E. NO. 20453

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 SHEETS.....	ROADWAY-SIGN1, ROADWAY-SIGN2
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS....	1A
ESTIMATED ROADWAY QUANTITIES.....	2
TRAFFIC CONTROL PLANS.....	T2

YEAR	PROJECT NO.	SHEET NO.
2026	HSIP/PHSIP-78(21)	ROADWAY-SIGN 2

REV. 07-16-2026: ADDED SHEET TO PLANS

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**SIGNATURE
SHEET**

7/17/2026 10:18:25 AM
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ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN1
.....	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD TRAFFIC DESIGN DRAWINGS	1A1
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TYPICAL SECTIONS S.R. 78 AND PAVEMENT SCHEDULE	2B
TYPICAL SECTIONS L.R. 2723 (JENKINSVILLE-JAMESTOWN RD.)	2B1
TYPICAL SECTIONS L.R. 826 (NAUVOO SCHOOL RD.)	2B2
TYPICAL SECTIONS L.R. 182 (LENOX NAUVOO RD.)	2B3
TYPICAL SECTIONS L.R. A900 (HEATHRIDGE DR.)	2B4
TYPICAL SECTIONS L.R. 2723 CONNECTOR	2B5
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SPECIAL NOTES.....	2D
ENVIRONMENTAL NOTES.....	2E
TABULATED QUANTITIES	2F, 2F1-2F2
SPECIAL DITCHES.....	2G
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UTILITY SHEETS	4B – 5B
PROPOSED LAYOUTS.....	4C – 5C
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TRAFFIC CONTROL PLANS	T1 – T11
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS	S-1
UTILITIES PLANS.....	U1–1
NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN NUMBERING OF SHEETS.	
NO PROJECT COMMITMENTS.	

DWG.	REV.	DESCRIPTION
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-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
10-101.00 STANDARD ROADWAY DRAWINGS		
RD18-TS-1	01-30-26	RURAL LOCAL ROADS (LOW-VOLUME
RD18-TS-2A	01-30-26	RURAL LOCAL ROADS AND STREETS
RD18-TS-3A	01-30-26	RURAL MINOR COLLECTOR (2-LANE)
RD18-TS-4C		RURAL MAJOR COLLECTOR FLUSH MEDIAN (4-5-6 LANE)
RD18-TS-5A	01-30-26	RURAL MINOR ARTERIAL (2-3 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-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-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
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-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

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
D-PE-42A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 42" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-42B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 42" 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	01-30-26	TYPE "SAFETY" SIDE ENDWALL WITH STEEL PIPE GRATE, FOR 15" THRU 48" PIPES, 6:1 SLOPE
10-104.00 CATCH BASINS AND MANHOLES		
D-CB-42RB	02-20-20	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
10-106.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
RP-I-5	05-01-20	EXAMPLES OF STREET & ALLEY INTERSECTIONS
S-F-1	03-01-23	HIGH VISIBILITY FENCE
S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
10-108.00 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-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-GR31-1	03-13-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-31	05-04-22	TEMPORARY DIVERSION CHANNEL

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2025	HSIP/PHSIP-78(21)	1A
PS&E	2026	HSIP/PHSIP-78(21)	1A

REV. 07-16-2026; REV. ROADWAY INDEX.

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07-19-26

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

REV.07-16-2026: REV. QUANTITY FOR
ITEM 712-06 & 712-10.02.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 23011-3240-94
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
202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 7)	LS	1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	28015
203-06	WATER	M.G.	170
203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1358
203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	1360
204-08	FOUNDATION FILL MATERIAL	C.Y.	10
204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	10
208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	1
209-03.23	FILTER SOCK (24 INCH)	L.F.	780
209-05	SEDIMENT REMOVAL	C.Y.	255
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	4510
209-08.08	ENHANCED ROCK CHECK DAM	EACH	26
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	200
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	110
303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING D	TON	9580
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	530
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	2025
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	27
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	81
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	12
411-01.10	ACS MIX(PG64-22) GRADING D	TON	1100
411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	0.34
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	108
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	196
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	180
607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	93
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	301
611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	2
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	4
611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
611-07.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	3
611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	1
621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	101
701-02	CONCRETE DRIVEWAY	S.F.	3940
705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	300
705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2
706-01	GUARDRAIL REMOVED	L.F.	217
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	520
708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	31

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TABULATED TRAFFIC CONTROL QUANTITIES						
ITEM NO.	DESCRIPTION	UNIT	PHASE I QUANTITY 23011-3240-94	PHASE II QUANTITY	PHASE III QUANTITY	TOTAL QUANTITY
303-02	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1880	310		2190
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	750			750
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	8	2		10
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	24	7		31
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	3	1		4
411-01.10	ACS MIX(PG64-22) GRADING D	TON	309	82		391
(2) 621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	61			61
712-01	TRAFFIC CONTROL	LS	1	1	1	1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	3915	1265		5180
(1) 712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	8	10		10
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	64	94	28	186
712-04.50	BARRIER RAIL DELINEATOR	EACH	200	67		267
712-05.01	WARNING LIGHTS (TYPE A)	EACH	14	10	10	14
712-06	SIGNS (CONSTRUCTION)	S.F.	374	374	374	374
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	8	24		32
712-10.02	TEMPORARY TRANSVERSE RUMBLE STRIPS	L.F.	192	192		192
716-01.07	TEMPORARY RAISED PAVEMENT MARKER, YELLOW	EACH	43			43
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.28	0.31		0.6
(3) 716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	2900	850		3750
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	0.83	1.25		2.1
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.		3000		3000

FOOTNOTES:

1. THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3.
THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. 8" PAINTED LINE TO BE PLACED IN FRONT OF PORTABLE CONCRETE BARRIER.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	FLEXIBLE DELINEATOR (GROUND MOUNTED)
	PORTABLE BARRIER RAIL
	REMOVE PAVEMENT STRIPING
	CRASH CUSHION
	TEMPORARY BARRICADE (TYPE III)
	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
RSSWL	REMOVABLE SINGLE SOLID WHITE LINE
RDSYL	REMOVABLE DOUBLE SOLID YELLOW LINE

REV. 07-16-2026: REV. QUANTITY FOR
ITEM 712-10.02.

TRAFFIC CONTROL SIGN TABULATION														
M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES			S.F.	NO. REQUIRED	NO. REQUIRED	NO. REQUIRED	NO. REQUIRED	NO. REQUIRED	TOTAL NO. REQUIRED	ITEM NO. 712-06 S.F.	STANDARD DRAWING NO.	REMARKS
		L	X	W		PHASE I	PHASE II	PHASE III	PHASE IV	PHASE V				
G20-2	END ROAD WORK	48"	X	24"	8	6	6	6			6	48.00	T-WZ-31	
R11-2	ROAD CLOSED	48"	X	30"	10	1	3	3			3	30.00	T-WZ-31	
R2-1	SPEED LIMIT (45 MPH)	48"	X	60"	20	2	2	2			2	40.00	T-WZ-21	
W1-4A	LANE SHIFT	48"	X	48"	16	2	2	2			2	32.00	T-WZ-31	
W3-5	REDUCED SPEED LIMIT AHEAD (45 MPH)	48"	X	48"	16	2	2	2			2	32.00	T-WZ-21	
W20-1	ROAD WORK AHEAD	48"	X	48"	16	4	4	4			4	64.00	T-WZ-10	
W20-1	ROAD WORK 2 MILE	48"	X	48"	16	2	2	2			2	32.00	T-WZ-21	
W20-1	ROAD WORK 1 MILE	48"	X	48"	16	2	2	2			2	32.00	T-WZ-10	
W20-1	ROAD WORK 1/2 MILE	48"	X	48"	16	2	2	2			2	32.00	T-WZ-10	
TN-78	RUMBLE STRIPS AHEAD	48"	X	48"	16	2	2	2			2	32.00	T-WZ-56	
TOTAL											374	S.F.		

PHASE 1A:

1. SHIFT TRAFFIC SLIGHTLY TO THE NORTH (RIGHT) SIDE OF S.R.78.
2. CONSTRUCT TEMPORARY PAVEMENT ON THE SOUTH (LEFT) SIDE OF S.R.78
3. CONSTRUCT TEMPORARY ROAD FOR LR A900.

PHASE 1B:

1. SHIFT TRAFFIC TO LR A900 TEMPORARY ROAD.
2. CONSTRUCT SR-78 NORTHBOUND LANES, LR 826, LR A900, SIDE DRAINS, CROSS DRAINS, AND PRIVATE DRIVES THROUGHOUT CONSTRUCTION.

PHASE 1C:

1. CONSTRUCT LR 2723 DETOUR.
2. CONSTRUCT REMAINING PORTION OF LR 826.
3. SCARIFY EXISTING LR 826 PAVEMENT.

PHASE 2:

1. SHIFT TRAFFIC TO NEW SR-78, LR 826 AND LR A900 LANES.
2. CONSTRUCT SR-78 SOUTHBOUND LANES, LR 2723, SR 182, SIDE DRAINS, CROSS DRAINS, AND PRIVATE DRIVES THROUGHOUT CONSTRUCTION.

PHASE 3

1. SHIFT LR 2723 TRAFFIC TO THE REALIGNED ROAD.
2. CONSTRUCT CUL-DE-SAC AND DRIVEWAYS. COMPLETE SIDE SLOPES ALONG S.R.-78.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLANS
PHASING NOTES,
LEGEND AND
TABULATION