Functional Classification = RURAL MAJOR COLLECTOR

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Legal Speed

COUNTY ROAD 19 ROADWAY RESURFACING

COUNTY ROAD RESURF

INDEX OF SHEETS

TITLE SHEET	
GENERAL NOTES & SUMMARY	
CR 19 PAVEMENT & MISC CALCULATIONS	
CR 18-S PAVEMENT & MISC. CALCULATIONS 4	
CR OLD SR 12 PAVEMENT & MISC. CALCULATIONS 5	

DESIGN EXCEPTIONS

None

	SUPPLEMENTAL	PRINTS OF STAN	DARD CONSTRU	CTION DRAWING	GS	SUPPLEMENTAL SPECIFICATIONS
3P-3.1 3P-3.2	01-19-24 01-18-19			TC-41.20 TC-42.20 TC-52.10 TC-52.20	10-18-13 10-18-13 10-18-13 01-15-21	SS 800 01/17/25 SS 832 07/19/24
				MT-97.12 MT-99.20 MT-101.60 MT-105.10	01-20-17 04-19-19 01-17-25 01-17-20	
						SPECIAL PROVISIONS

PROJECT DESCRIPTION

Widening and Pavement Resurfacing of CR 19, CR 18-S, and CR Old SR 12 and new pavement markings.

SPECIFICATIONS

The 2023 standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal or hereon shall govern this improvement.

EARTH DISTURBED AREAS

CR 19 and CR 18-S Projects	
Project Earth Distrubed Area	0.61 Acres
Estimated Contractor Earth Distrubed Area	0.00 Acres
Notice of Intent Earth Distrubed Area	0.61 Acres

CR VId SR 12 Project		
Project Earth Distrubed Area	0.94	Acres
Estimated Contractor Earth Distrubed Area	0.00	Acres
Notice of Intent Earth Distrubed Area	0.94	Acres

I hereby that the m require the	y approve	these p	olans	and	declare
that the m	aking of t	his impi	rover	nent	will
require the	closing to	traffic	gf 1	the	highway.

Approved .	Tuf M. Whi
Date 7-8	2025 Putnam County Commissioner
Approved .	Joh C John lelu

Date 7/8/25	Putnam	County	Commissioner
Approved By	B		

Date 7/9/25	Putnam	County	Commissione

Approved	Micha	SS	Senh	aut

Date 7-8-2025 Putnam County Engineer



Plan Prepared By OFFICE OF THE PUTNAM COUNTY ENGINEER MICHAEL L. LENHART, P.E., P.S. 245 E. Main St., Suite 205 Ottawa, Ohio 45875

UNDERGROUND UTILITIES TWO WORKING DAYS

TWO WORKING DAYS
BEFORE YOU DIG Call... 800-362-2764 (Toll free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

NONE

E230350

114054

OLD SR CR 18-S CR 19 S 1

- TVT - PVT DG

DUE TO THE NUMEROUS DRIVEWAYS THAT WILL REQUIRE AN ESTIMATED FOUR FOOT APPROACH, THE RESURFACING IS ANTICIPATED TO BE DONE IN HALF-WIDTH CONSTRUCTION WITH TRAFFIC MAINTAINED BY A MOBILE FLAGGING OPERATION. IF NECESSARY, THE ROAD MAY BE CLOSED TO THROUGH TRAFFIC FOR PAVING WITH ENGINEER APPROVAL. ACCESS MUST BE MAINTAINED FOR LOCAL TRAFFIC.

INTERSECTIONS AND DRIVEWAYS:
INTERSECTIONS SHOULD BE PAVED BACK TO THE END OF THE RADII TO A LOCATION APPROVED BY THE ENGINEER. FOR ALL PROJECT ROADWAY SEGMENTS, ALL DRIVEWAY WIDTHS WERE MEASURED AND AN AVERAGE WIDTH AND TOTAL QUANTITY ARE LISTED ON THESE PLANS. FOR QUANTITY CALCULATION PURPOSES, AN ESTIMATED FOUR FOOT APPROACH WAS USED FOR THE CONCRETE AND ASPHALT DRIVEWAYS AND AN ESTIMATED ONE FOOT BUMP-OUT WAS USED FOR THE STONE DRIVEWAYS. FOR ALL THE EXISTING STONE DRIVEWAYS, THE CONTRACTOR SHALL PLACE ITEM 411E10001 STABILIZED CRUSHED AGGREGATE TO TAPER FROM THE PROPOSED ONE FOOT BUMP-OUT OF THE EDGE OF PAVEMENT TO THE EXISTING STONE DRIVE SURFACE WITHIN AN AVERAGE DISTANCE OF 5 FEET. THESE INTERSECTION AND DRIVEWAY QUANTITIES ARE SHOWN ON THE PAVEMENT CALCULATIONS SHEET FOR EACH ROADWAY SEGMENT.

THE WORK PROPOSED BY THIS PROJECT IS FOR THE WIDENING AND RESURFACING OF THE EXISTING PAVEMENT. THE INTENT IS FOR THE SURFACE OF THE WIDENING TO MATCH THE GRADE OF THE ADJOINING PAVEMENT. THE PROPOSED PAVEMENT SURFACE WILL BE APPROXIMATELY 2" HIGHER THAN EXISTING. THE GOAL OF THE PAVING IS TO IMPROVE BOTH HORIZONTAL AND LONGITUDINAL GRADES. SPREADING EQUIPMENT WILL HAVE AN AUTOMATIC PROFILE CONTROL DEVICE ADDED TO BE USED WHEN DIRECTED BY THE ENGINEER. THE MINIMUM LENGTH OF THE SKI FOR THIS DEVICE SHALL BE 30 FEET.

ITEM 407E10000 TACK COAT APPLICATION RATES;
THE RATE OF APPLICATION OF 407E10000 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ALL PROVISIONS OF ITEM 203E10001 SHALL APPLY, HOWEVER THIS ITEM WILL BE PAID FOR BY THE FOOT OF TRENCH EXCAVATED.

VOLUME QUANTITIES

ITEMS 301E46001, 411E10001, 441E50101 & 441E50201 WILL BE PAID FOR BY THE TON RATHER THAN CUBIC YARD.

ITEM 832E30000 EROSION CONTROL IS TO BE BID AS ONE LUMP SUM TOTAL FOR ALL ROADWAYS. THE AMOUNT OF \$1,000 FOR EACH ROADWAY RESULTS IN THE \$3,000 TOTAL TO BE USED IN THE BID DOCUMENTS.

ITEM 614E11000 MAINTAINING TRAFFIC IS TO BE BID AS ONE LUMP SUM TOTAL FOR ALL ROADWAYS.

ITEM 624E10000 MOBILIZATION IS TO BE BID AS ONE LUMP SUM TOTAL FOR ALL ROADWAYS.

SAFETY EDGE:

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT STEEPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

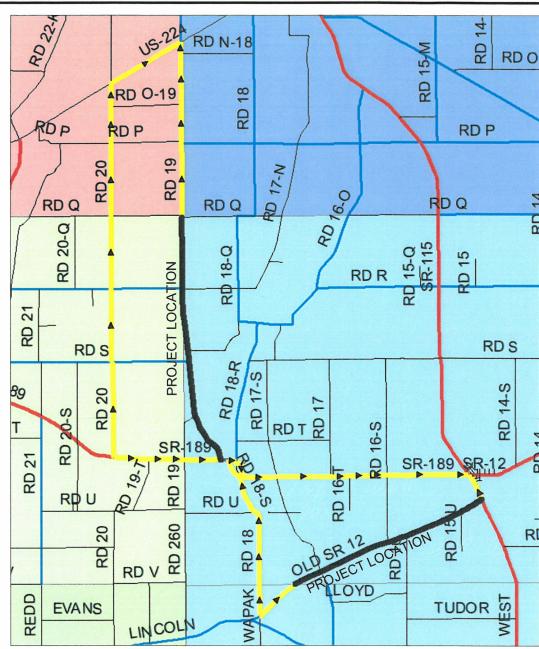
USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETSLOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC. 900 ALBANY SHAKER ROAD, SUITE 2 LATHAM, NY 12110 1-800-724-6306 www.transtechsys.com

CARLSON SAFETY EDGE END GATE 18425 50TH AVENUE EAST TACOMA, WA 98446 253-875-8000 www.carlsonpavingproducts.com

ADVANT-EDGE PAVING EQUIPMENT LLC 33 OLD NISKAYUNA ROAD 814-422-3343 www.advantedgepaving.com

			COMBINEL	GENERA	AL SUN	MMARY FOR CR 19 AND CR 18-S AND CR OLD SR 12
SHEET 3	SHEET 4	SHEET 5	ITEM	TOTAL	UNIT	DESCRIPTION
	1					
14247	3441	27260	203E10001	44948	Feet	9" Deep, 2' Wide, Excavation Special
3166	765	6058	204E10000	9989	SY	Subgrade Compaction
1583	382	3029	301E46001	4994	Tons	Asphalt Concrete Base Course, As Per Plan
2666	706	2772	407E10000	6144	Gal	Tack Coat (0.075 gal/sy)
757	202	747	411E10001	1706	Tons	Stabilized Crushed Aggregate, (Berm) (2' Each Side) As Per Plan
1981	524	2061	441E50101	4566	Tons	1.0" Asphalt Concrete Surface Course, Type 1 (448), PG 70-22 (Polymer Additive), As Per Plan
1981	524	2061	441E50201	4566	Tons	1.0" Asphalt Concrete Intermediate Course, Type 1 (448), PG 70-22 (Polymer Additive), As Per Plan
5.442	1.436	5.640	643E00104	12.518	Mile	Edge Line, 4"
2.721	0.718	2.820	643E00300	6.259	Mile	Center Line
	14	14	643E00500	28	Feet	Stop Line
4	2	7	Special	13	Each	Formed Construction Joint
			832E30000	1	Lump	Erosion Control (\$1,000 Each for a \$3,000 Total)
			614E11000	1	Lump	Maintaining Traffic
			624E10000	1	Lump	Mobilization



DESIGNATED DETOUR ROUTES

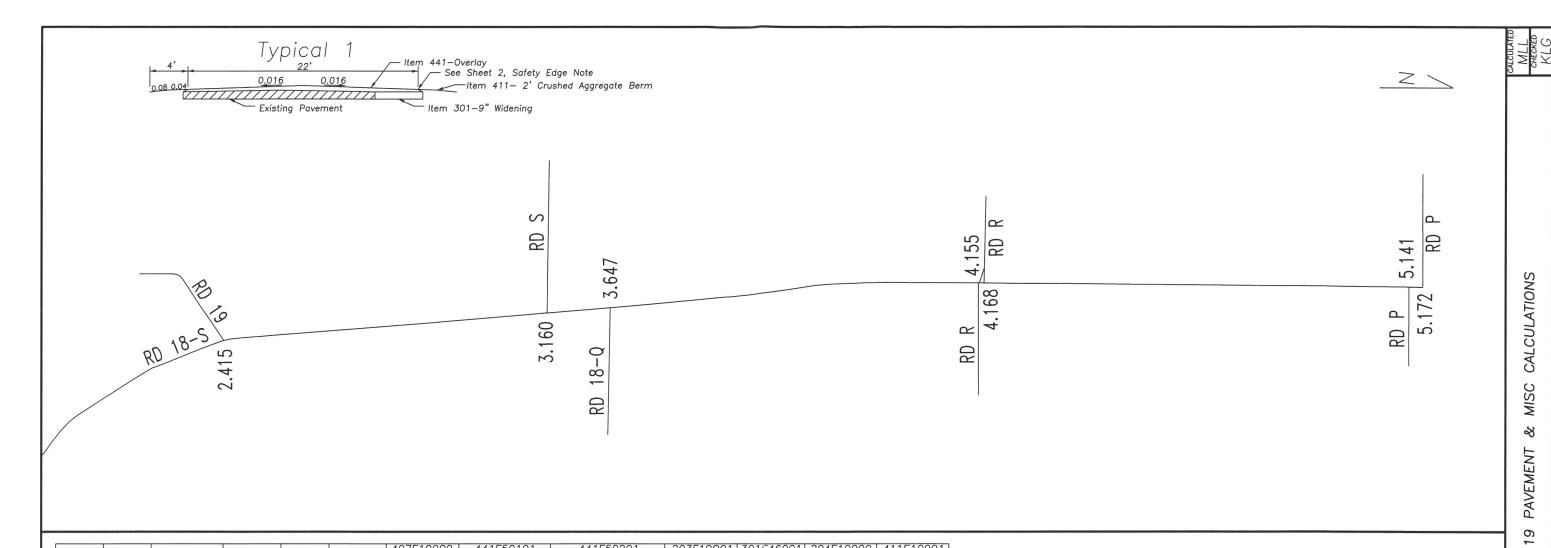
SR 8-5 19 CR 1 D

SUMMARY

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NOTES

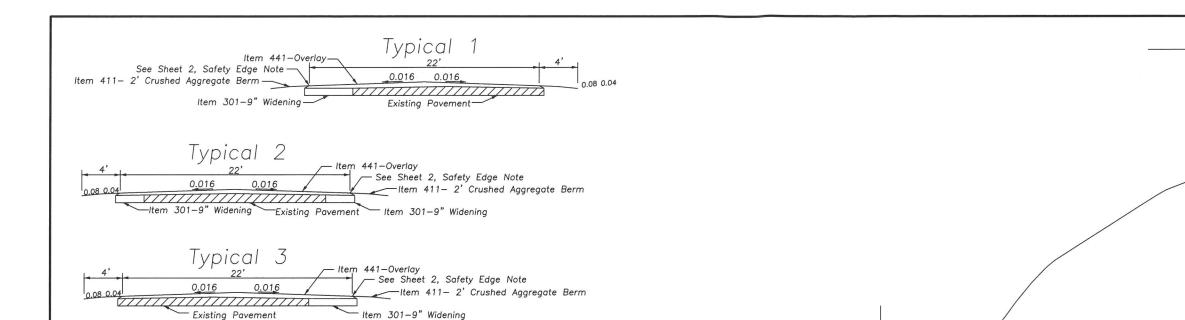
GENERAL



						407E10000	441E50101	441E50201	203E10001	301E46001	204E10000	411E1000
From	То	Distance	Pavement	Typical	Pavement	Tack Coat	Asphalt Conc Surface Course Type 1	Asphalt Conc Intermediate Course Type 1	Excavation	Asphalt Conc Base	Subgrade Compaction	Stabilized Crushed Aggregate
			Width	Section	Area	0.075 Gal/SY	Thickness 1"	Thickness 1"	Thickness 9"	Thickness 9"		Thickness 2"
SLM	SLM	Miles Feet	Feet		SY	Gal	Ton	Ton	Feet	Ton	SY	Tons
2.415	5.136	2.721 14367	22	1	35120	2634	1951	1951	14247	1583	3166	704
				<u> </u>								
28 Stor	ne Drivew	ays — 30' A iveways — 4	<u>verage Wid</u>	dth Width	94	10	5	5				50
Intersec	tions	IVEWGYS - 4	Average	WIGHT	94 134 296	22	17	17				3
_												
Totals	-					2666	1981	1981	14247	1583	3166	757

	643-	-PAVEME	NT MARKIN	G
			643E00104	643E00300
From	То	Distance	Edge	Center
2.415	5.136	2.721	5.442	2.721
TOTALS			5.442	2.721

Item Special — Formed Construction Joints Creation of a joint conforming to 401.17 by milling at each end of the project and at each adjoining asphalt road. To be paid for as Formed Construction Joint —Each PUT - CR OLD S PUT - CR 18-PUT - CR 13



0.950

189

						407E10000	441E50101	441E50201	203E10001	301E46001	204E10000	411E10001
From	То	Distance	Pavement	Typical	Pavement	Tack Coat	Asphalt Conc Surface Course Type 1	Asphalt Conc Intermediate Course Type 1	Excavation	Asphalt Conc Base	Subgrade Compaction	Stabilized Crushed Aggregate
			Width	Section	Area	0.075 Gal/SY	Thickness 1"	Thickness 1"	Thickness 9"	Thickness 9"		Thickness 2"
SLM	SLM	Miles Feet	Feet		SY	Gal	Ton	Ton	Feet	Ton	SY	Tons
0.959	1.361	0.402 2123	22	1	5190	390	288	288	2123	236	472	105
1.361	1.399	0.038 200 0.278 1468	22	2 3	489 3588	37 269	27 200	288 27 200	400 918	44 102	89 204	10 73
7 Stone		ys - 30' A	verage Widt	h	24 126	10	2 7	2 7				13
Totals						706	524	524	3441	382	765	202

643-PAVEMENT MARKING										
			643E00104	643E00300	643E00500					
From	То	Distance	Edge	Center	Stop Lines, Feet					
0.959	1.677	0.718	1.436	0.718	14					
		-								
		 								
TOTALS			1.436	0.718	14					

RD 19

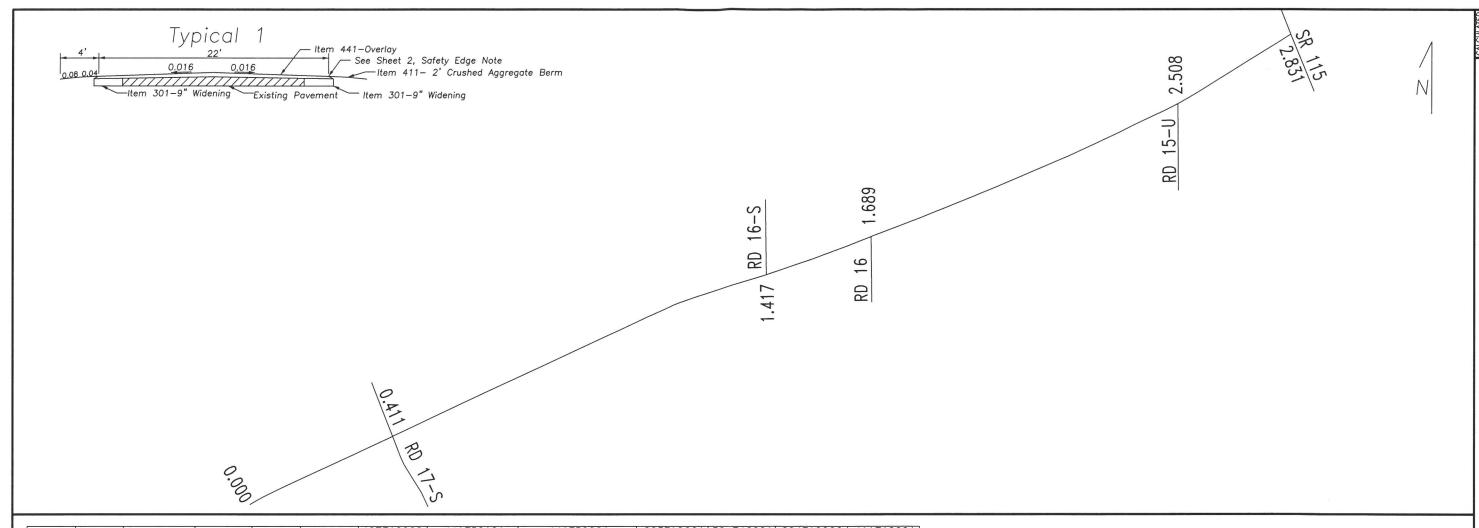
Item Special — Formed Construction Joints Creation of a joint conforming to 401.17 by milling at each end of the project and at each adjoining asphalt road. To be paid for as Formed Construction Joint —Each

& MISC CALCULATIONS

PAVEMENT

18-S

CR



							407E10000	441E50101	441E50201	203E10001	301E46001	204E10000	411E10001
From	То	Distance		Pavement Width	Typical Section	Pavement Area	Tack Coat	Asphalt Conc Surface Course Type 1	Asphalt Conc Intermediate Course Type 1	Excavation	Asphalt Conc Base	Subgrade Compaction	Stabilized Crushed Aggregate
							0.075 Gal/SY	Thickness 1"	Thickness 1"	Thickness 9"	Thickness 9"		Thickness 2"
SLM	SLM	Miles	Feet	Feet		SY	Gal	Ton	Ton	Feet	Ton	SY	Tons
0.000	2.820	2.820	14890	22	1	36398	2730	2022	2022	27260	3029	6058	673
			-										
				 							 		
30 Stone	e Drivew	ays -	37' A	verage Wid 29 Average	th Width	123 245 318	10	7	7				70
Intersect	ions	riveway	/5	Average	- Wigth	318	18 24	14 18	18				4
Totals							2772	2061	2061	27260	3029	6058	747

643-PAVEMENT MARKING											
643E00104 643E00300 643E00500											
From	То	Distance	Edge	Center	Stop Lines, Feet						
0.000	2.820	2.820	5.640	2.820	14						
TOTALS			5.640	2.820	14						

Item Special — Formed Construction Joints Creation of a joint conforming to 401.17 by milling at each end of the project and at each adjoining asphalt road. To be paid for as Formed Construction Joint —Each

MISC CALCULATIONS

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PAVEMENT

12

SR

OLD

CR