LOCATION MAP
SEE SHEET 2

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

TRU-82-22.74

VIENNA, BROOKFIELD & HUBBARD TOWNSHIP

TRUMBULL COUNTY

INDEX OF SHEETS:

PROJECT DESCRIPTION

RESURFACING OVER TRU SR82 22.74 TO 29.89 AND TRU 616 0.00 TO 0.62. INCLUDES MINOR BRIDGE WORK TO 11 STRUCTURES AND WORK ON 5 CULVERTS.

EARTH DISTURBED AREAS

PROJECT EDA: N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EDA: N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EDA: N/A (NOI NOT REQUIRED)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 8.

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION / NHS PROJECT
SR 82: URBAN PRINCIPAL ARTERIAL / NHS: YES
SR 616: RURAL PRINCIPAL ARTERIAL / NHS: YES

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 4 - PLANNING AND ENGINEERING
2088 S. ARLINGTON RD.
AKRON, OHIO 44306

ENGINEERS SEAL:

STATE OF OHIO
MARK J. ANDRASIK
E-80194
REGISTERED PROFESSIONAL ENGINEER

SIGNED: M. Andrasik
DATE: 2/27/2020

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	01/17/20	MT-95.30	7/19/19	TC-64.10	1/17/20						
BP-3.2	1/18/19	MT-97.10	4/19/19	TC-65.10	1/17/14						
		MT-98.10	1/17/20	TC-65.11	7/21/17						
DM-1.1	7/17/20	MT-98.11	1/17/20	TC-71.10	1/19/18						
DM-4.3	1/15/16	MT-98.20	4/19/19	TC-72.20	7/20/18						
DM-4.4	1/15/16	MT-98.22	1/17/20								
		MT-98.29	1/17/20								
BP-4.1	7/19/13	MT-98.30	7/19/19								
		MT-99.20	4/19/19								
MGS-1.1	1/19/18	MT-101.90	7/17/20								
MGS-2.1	1/19/18	MT-105.10	1/17/20								
MGS-4.3	1/18/13										
		TC-41.20	10/18/13								
HW-2.1	7/20/18	TC-42.20	10/18/13								
HW-2.2	7/20/18	TC-52.10	10/18/13								
		TC-52.20	7/20/18								

SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
800-2020	10/16/20	WPC	3/31/20
821	4/20/12		
832	10/19/18		
875	1/18/19		
921	4/20/12		

APPROVED [signature]
DATE 2/27/20 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E150(666)
PID NO. 84660
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NORFOLK SOUTHERN RR
TRU-82-22.74
1/28

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. SR 82: A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

SR 616: A MINIMUM OF ONE BIDIRECTIONAL TEN FOOT LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, AND PENNDOT (DIANA CRAFT 814-678-7153, DARRELL CHAPMAN 724-269-1061) EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

4. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.

5. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

6. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

7. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.

8. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

10. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

11. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

PHASE I: MILLED SURFACE
- 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 0.62 MILE
- 614, WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT, 14.04 MILE
- 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 160 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT, 3490 FT
- 614, WORK ZONE MARKING SIGN,(ALL PHASES) 50 EACH

PHASE II: INTERMEDIATE COURSE
- 614, WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT 14.04 MILE
- 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT 160 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT 3490 FT

PHASE III: SURFACE COURSE
- 614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 0.62 MILE
- 614, WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT 14.04 MILE
- 614, WORK ZONE STOP LINE, CLASS III, 12", 642 PAINT 160 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT 3490 FT

TO BE USED AS DIRECTED BY THE ENGINEER
- 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 32.14 MILE

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 5 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSSESSED A DISINCENTIVE IN THE AMOUNT OF $3,000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMT.

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & RAMP CLOSURE	>= 2WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	2 BUSINESS DAYS PRIOR TO CLSOURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

W20-H13-60

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECT
TRU US 422/SR 193 17.53/6.78 (PID 98505) AND
TRU CR 175 (BEDFORD) (PID 98505)
TRU CULVERTS FY2021 (PID 108829)
MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

CALCULATED SK
CHECKED XXX

MAINTENANCE OF TRAFFIC

TRU-82-22.74

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		3	4	13	14	15	16	17	19		01/NHS/PV	02/S>2/PV	04/NHS/CV						
																		ROADWAY	
									LS				LS	201	11000	LS		CLEARING AND GRUBBING	
									4				4	202	20010	4	EACH	HEADWALL REMOVED	
						100					100			202	23500	100	SY	WEARING COURSE REMOVED	
									58				58	202	35200	58	FT	PIPE REMOVED, OVER 24"	
									55				55	202	98200	55	FT	REMOVAL MISC.:CHANNEL CLEANOUT	18
			96								96			203	10000	96	CY	EXCAVATION	
									25				25	203	40000	25	CY	BORROW	
			404								396	8		209	60200	404	STA	LINEAR GRADING	
				1,419	126	66					1,594	17		209	72000	1,611	STA	PREPARING SUBGRADE FOR SHOULDER PAVING	
			1								1			623	39501	1	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	5
																		EROSION CONTROL	
									65				65	601	32100	65	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
									10				10	601	32200	10	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
			22,446								22,001	445		659	10000	22,446	SY	SEEDING AND MULCHING	
			3.03								2.97	0.06		659	20000	3.03	TON	COMMERCIAL FERTILIZER	
			4.64								4.55	0.09		659	31000	4.64	ACRE	LIME	
			121.2								118.8	2.4		659	35000	121.2	MGAL	WATER	
											3,000			832	30000	3,000	EACH	EROSION CONTROL	
																		DRAINAGE	
									LS				LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
									4				4	602	20000	4	CY	CONCRETE MASONRY	
									12				12	611	16200	12	FT	36" CONDUIT, TYPE A, (706.01)	
									30				30	611	16200	30	FT	36" CONDUIT, TYPE A, (707.04 OR 707.33)	
									16				16	611	19200	16	FT	42" CONDUIT, TYPE A, (706.01)	
									10				10	613	41200	10	CY	LOW STRENGTH MORTAR BACKFILL	
																		PAVEMENT	
		5,100									5,000	100		251	01000	5,100	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
			192								192			253	01000	192	SY	PAVEMENT REPAIR	
				289,098	32,159						315,061	6,196		254	01000	321,257	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=3-1/4")	
			384								384			255	10010	384	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1	
			2,040								2,040			255	20000	2,040	FT	FULL DEPTH PAVEMENT SAWING	
			96								96			304	20000	96	CY	AGGREGATE BASE	
				43,365	4,825	846					48,106	930		407	20000	49,036	GAL	NON-TRACKING TACK COAT	
				12,607	1,119	582					14,157	151		408	10001	14,308	GAL	PRIME COAT, AS PER PLAN	5
						264					264			424	12001	264	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN	5
				17,466	1,191						18,250	407		441	00100	18,657	CY	ANTI-SEGREGATION EQUIPMENT	
				12,046	1,340						13,127	259		442	10051	13,386	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE B (446), AS PER PLAN, PG 70-22M	5
			22	14,054	1,564						15,338	302		442	10150	15,640	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE B (446)	
				1,751	170	81					1,981	21		617	10101	2,002	CY	COMPACTED AGGREGATE, AS PER PLAN	5
				28							27	1		618	40600	28	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
				14,510	606						14,778	338		875	10000	15,116	LB	LONGITUDINAL JOINT ADHESIVE	
						9,394					9,394			897	01010	9,394	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1")	
																		TRAFFIC CONTROL	
							875				860	15		621	00100	875	EACH	RPM	
							600				600			621	54000	600	EACH	RAISED PAVEMENT MARKER REMOVED	
								32.14			31.5	0.64		642	00104	32.14	MILE	EDGE LINE, 6", TYPE 1	
								14.04			13.72	0.32		642	00204	14.04	MILE	LANE LINE, 6", TYPE 1	
								0.62			0.62			642	00300	0.62	MILE	CENTER LINE, TYPE 1	
								3,490			3,490			642	00404	3,490	FT	CHANNELIZING LINE, 12", TYPE 1	
								160			160			642	00500	160	FT	STOP LINE, TYPE 1	
								550			550			642	00700	550	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
								284			284			642	00900	284	SF	ISLAND MARKING, TYPE 1	
								23			23			642	01300	23	EACH	LANE ARROW, TYPE 1	
								2,800			2,800			642	01510	2,800	FT	DOTTED LINE, 6", TYPE 1	

CALCULATED SK CHECKED XXX

GENERAL SUMMARY

TRU-82-22.74

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
							6	7	19		01/NHS/PV	02/S>2/PV	04/NHS/CV						
																		STRUCTURE REPAIR	
									30				30	512	10100	30	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
									30				30	519	11101	30	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	18
																		STRUCTURE REPAIRS	
																		FOR TRU-62-0871L ESTIMATED QUANTITIES	25
																		FOR TRU-62-0871R ESTIMATED QUANTITIES	25
																		FOR TRU-82-2207R ESTIMATED QUANTITIES	25
																		FOR TRU-82-2210L ESTIMATED QUANTITIES	25
																		FOR TRU-82-2518L ESTIMATED QUANTITIES	25
																		FOR TRU-82-2518R ESTIMATED QUANTITIES	25
																		FOR TRU-82-2535R ESTIMATED QUANTITIES	25
																		FOR TRU-82-2536L ESTIMATED QUANTITIES	25
																		FOR TRU-82-2540L ESTIMATED QUANTITIES	26
																		FOR TRU-82-2540R ESTIMATED QUANTITIES	26
																		FOR TRU-82-2955 ESTIMATED QUANTITIES	26
																		MAINTENANCE OF TRAFFIC	
								300			300			614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
							50				40	10		614	12460	50	EACH	WORK ZONE MARKING SIGN	
							20				20			614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
								16			16			614	18601	16	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7
							28.08				27.44	0.64		614	20110	28.08	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
							14.04				13.72	0.32		614	20560	14.04	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
							0.62				0.62			614	21100	0.62	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
							0.62				0.62			614	21550	0.62	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
							32.14				31.5	0.64		614	22360	32.14	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
							6,980				6,980			614	23210	6,980	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
							3,490				3,490			614	23690	3,490	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
							320				320			614	26200	320	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
							160				160			614	26610	160	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
																		INCIDENTALS	
											LS			614	11000	LS		MAINTAINING TRAFFIC	
											6			619	16010	6	MNTH	FIELD OFFICE, TYPE B	
											LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS			624	10000	LS		MOBILIZATION	

CALCULATED SK
CHECKED XXX

GENERAL SUMMARY

TRU-82-22.74

12
28

GENERAL SPEC: 640
MATERIAL TYPE: 642

CALCULATED SK
CHECKED XXX

EDGE LINE

CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	WHITE EDGE LINE TOTAL	WHITE EDGE LINE HIGHWAY	WHITE EDGE LINE RAMP	YELLOW EDGE LINE TOTAL	YELLOW EDGE LINE HIGHWAY	YELLOW EDGE LINE RAMP	COMMENTS
TRU	82 EB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		6.86	6.86		
TRU	82I EB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		0.16	0.16		
TRU	82 WB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		6.86	6.86		
TRU	82I WB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		0.16	0.16		SEE RAMP G FOR SR 82 SLM 29.60 TO 29.87
	RAMP A					0.23		0.23	0.23		0.23	
	RAMP B					0.20		0.20	0.20		0.20	
	RAMP C					0.20		0.20	0.20		0.20	
	RAMP D					0.23		0.23	0.23		0.23	
	RAMP E					0.23		0.23	0.23		0.23	
	RAMP F					0.20		0.20	0.20		0.20	
	RAMP G					0.20		0.20	0.20		0.20	
	RAMP H					0.23		0.23	0.23		0.23	
TRU	616	0.00	COUNTY LINE RD	0.62	MCKINLEY RD SE	0.62	0.62					
TOTAL						16.38	14.66	1.72	15.76	14.04	1.72	

LANE LINE

CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	4" LANE LINE DASHED	4" LANE LINE SOLID	COMMENTS
TRU	82 EB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		
TRU	82I EB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		
TRU	82 WB	22.74	EAST OF 193	29.60	STRUCTURE TRU-82-2955	6.86	6.86		
TRU	82I WB	0.00	STRUCTURE TRU-82-2955	0.16	SHARON BEDFORD RD	0.16	0.16		
TOTAL						14.04	14.04		

CENTER LINE

CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	TOTAL MILES	EQUIVALENT SOLID LINE	COMMENTS
TRU	616	0.00	COUNTY LINE RD	0.62	MCKINLEY RD SE	0.62	0.35	
TOTAL						0.62	0.35	

AUXILIARY

CTY	ROUTE LOCATION	TRUE LOG	CHANNEL LINE	STOP LINE	CROSS WALK LINES	TRANSVERSE DIAGONAL LINES WHITE	TRANSVERSE DIAGONAL LINES YELLOW	ISLAND MARKING	SYMBOL MARKINGS RxR	SYMBOL MARKINGS SCHOOL 72"	SYMBOL MARKINGS SCHOOL 96"	LANE ARROWS TURN LEFT	LANE ARROWS TURN RIGHT	LANE ARROWS THRU	LANE ARROWS COMB.	LANE ARROWS MERGE	WORD ON PVMT ONLY 72"	WORD ON PVMT ONLY 96"	DOTTED LINES	COMMENTS
			FT	FT	FT	FT	FT	SQ FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	
TRU	SR 82 @ WARNER RD	24.52	300									4								
TRU	SR 82 @ SR 7	27.11	1450	86		200		284				10	3							
TRU	SR 82 @ BEDFORD RD	27.496	300	74								6								
TRU	SR 82 GORES @ US 62	29.47	480			150													1300	
TRU	SR 82 GORES @ US 62	29.52	710			200													1175	
TRU	SR 82 GORES @ US 62	29.87	250																325	
TOTAL			3490	160		550		284				20	3						2800	

PAVEMENT MARKING SUBSUMMARY

TRU-82-22.74