

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

DEF-66-7.82

City of Defiance
Noble and Tiffin Townships
Defiance County

PROJECT DESCRIPTION

REHABILITATION OF 7.72 MILES OF ROADWAY ON SR 66
DEFIANCE COUNTY. REHABILITATE BY PAVEMENT PLANING,
RESURFACING AND PLACING PAVEMENT MARKINGS.

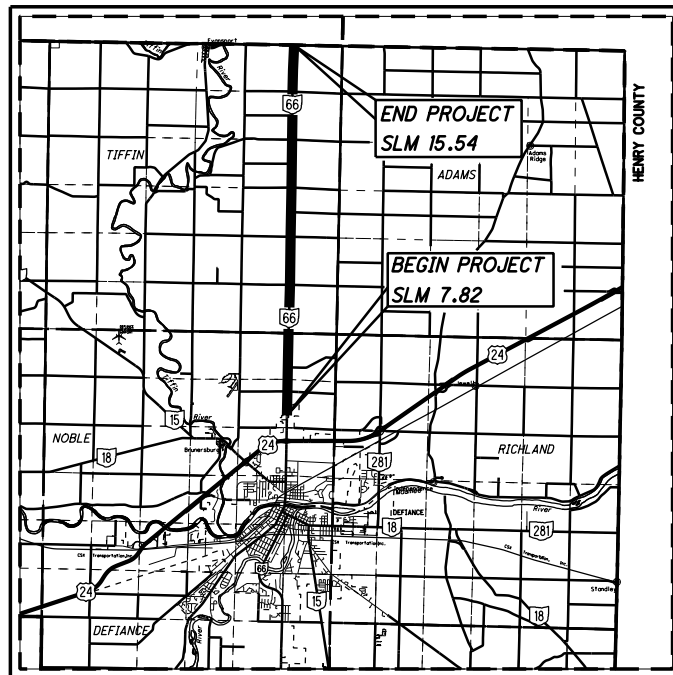
EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A *
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A *
NOTICE OF INTENT EARTH DISTURBED AREA: N/A *
* - (MAINTENANCE PROJECT)

2019 SPECIFICATIONS

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

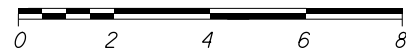
I HEREBY APPROVE THESE PLANS AND DECLARE THAT
THE MAKING OF THESE IMPROVEMENTS WILL NOT REQUIRE
THE CLOSING OF THE HIGHWAY AND PROVISIONS FOR THE
MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS
INDICATED IN THE PROPOSAL.



LOCATION MAP

LATITUDE: N 41° 22' 18" LONGITUDE: W 84° 21' 39"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

DESIGN DESIGNATION	SR 66
CURRENT ADT (2019)	7760
DESIGN YEAR ADT (2042)	8300
DESIGN HOURLY VOLUME (2042)	1000
DIRECTIONAL DISTRIBUTION	0.54
TRUCKS (24 HOUR B&C)	0.06
DESIGN SPEED	Varies
LEGAL SPEED	Varies
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	

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PLAN PREPARED BY:
District One
Ohio Department of Transportation
Lima, Ohio

ENGINEERS SEAL

STATE OF OHIO

ERIC J. SCHECKELHOFF
E-63356

REGISTERED
PROFESSIONAL ENGINEER

SIGNED: *Eric J. Schekelhoff*
DATE: 02/22/2021

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	1/17/20	TC-64.10	1/17/20	800	1/15/21
BP-5.1	1/18/19	TC-65.10	1/17/14	832	10/19/18
BP-7.1	7/17/20	TC-65.11	7/21/17	875	1/18/19
		TC-71.10	1/19/18	897	1/16/15
				872	4/17/20
				874	4/17/20
MT-97.10	4/19/19	DM-4.3	1/15/16		
MT-97.12	1/20/17	DM-4.4	1/15/16		
MT-99.20	4/19/19				
MT-101.90	7/17/20				
MT-105.10	1/17/20				
MT-110.10	7/19/13				
TC-41.20	10/18/13				
TC-42.20	10/18/13				
TC-52.10	10/18/13				
TC-52.20	1/15/21				

APPROVED *Christopher A. Hughes*
DATE 02/22/2021 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO. E191(156)
CONSTRUCTION PROJECT NO. 107928
RAILROAD INVOLVEMENT None
DEF-66-7.82
1/7

SINGLE - MAILBOX TURNOUT & BRIDGE APPROACHES

IF THERE IS A DISTANCE OF 100 FEET OR LESS BETWEEN MAILBOXES: APPROACHES SHALL BE PAVED THRU TO LAST MAILBOX.

IF THERE IS A DISTANCE OF 50 FEET OR LESS BETWEEN DRIVEWAY AND MAILBOX, APPROACHES SHALL BE PAVED THRU TO THE MAILBOX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION OF MATERIALS FROM ALL STONE DRIVEWAYS AND MAILBOX APPROACHES TO A DEPTH OF 2 INCHES BELOW EXISTING PAVEMENT. EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY OUTSIDE THE LIMITS OF THE HIGHWAY RIGHT OF WAY.

IF NEITHER OF THE ABOVE CONDITIONS APPLY AND PER THE DIRECTION OF THE PROJECT ENGINEER, A MAILBOX TURNOUT SHALL BE PROVIDED AS PER THE ADJACENT DETAIL.

FOR MAILBOX TURNOUTS, WHEN UNSTABLE MATERIAL IS ENCOUNTERED, EXCAVATION OF THIS MATERIAL SHALL BE TO A DEPTH OF 6 INCHES BELOW EXISTING PAVEMENT ELEVATION. AN ESTIMATED QUANTITY OF 304 AGGREGATE BASE HAS BEEN SET UP FOR BACK FILL OF THESE AREAS. EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY OUTSIDE THE LIMITS OF THE HIGHWAY RIGHT OF WAY.

AT BRIDGES WITH NO EXISTING BRIDGE APPROACHES AND PER THE DIRECTION OF THE PROJECT ENGINEER, BRIDGE APPROACHES SHALL BE PROVIDED PER THE ADJACENT DETAIL. THE AREA SHOWING THE LOCATION OF THE BRIDGE WILL HAVE VARIABLE LENGTH AND NO WORK IS NEEDED WITHIN THIS AREA UNLESS NOTED OTHERWISE IN THE PLANS.

FOR BRIDGE APPROACHES, THE BRIDGE APPROACHES SHALL BE EXCAVATED TO A DEPTH OF 9 INCHES BELOW EXISTING ADJACENT PAVEMENT ELEVATIONS. AN ESTIMATED QUANTITY OF 304 AGGREGATE BASE HAS BEEN SET UP FOR BACK FILL TO A DEPTH OF 6 INCHES FOR THESE AREAS, AND ESTIMATED QUANTITIES OF ASPHALT SURFACE COURSE AND TACK COAT HAVE BEEN SET UP FOR PLACEMENT OF TWO ASPHALT CONCRETE SURFACE COURSES, EACH COURSE BEING 1 1/2 INCHES THICK, FOR THESE AREAS. EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY OUTSIDE THE LIMITS OF THE HIGHWAY RIGHT OF WAY.

AN ADDITIONAL QUANTITY OF ASPHALT CONCRETE HAS BEEN SET UP TO BE USED IN THOSE AREAS EXCAVATED FOR DRIVEWAYS, MAILBOX AND BRIDGE APPROACHES.

ALL WORK, MATERIALS, EXCEPT ITEM 304, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE PLACEMENT OF THE ASPHALT CONCRETE.

PERSONAL PROTECTION EQUIPMENT (PPE)

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEB SITE:

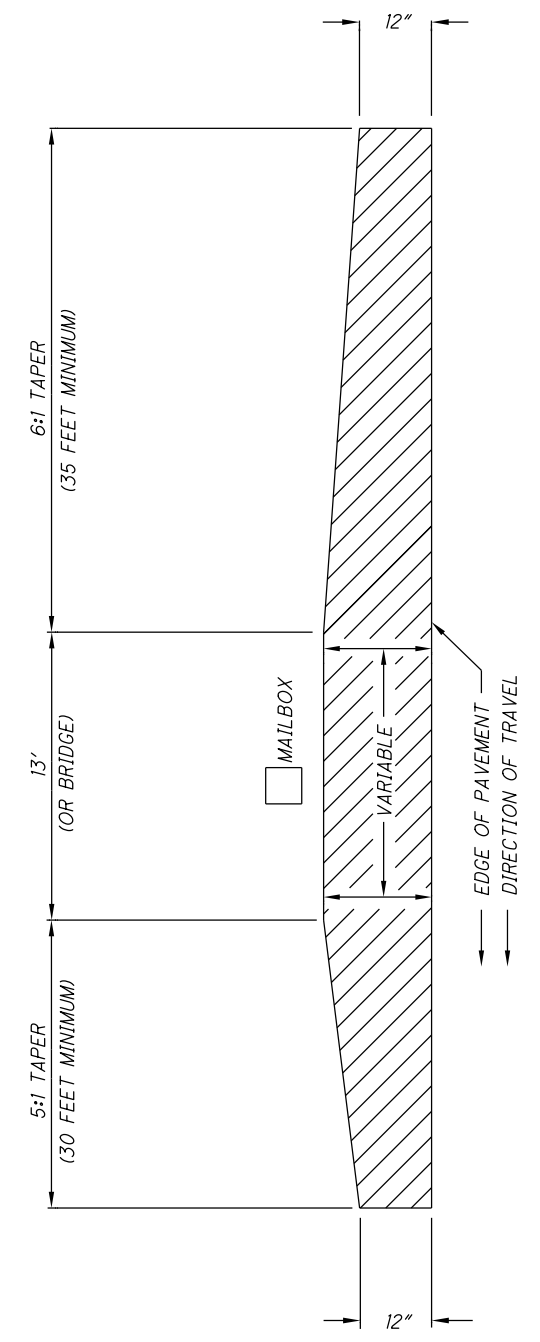
[HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/POLICIES/220-006\(SP\).PDF](http://www.dot.state.oh.us/policy/policiesandsops/policies/220-006(sp).pdf)

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE:

XXIV. HEAD PROTECTION (HARD HATS)
ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE I CLASS E-G REQUIREMENTS.

XXXIV. SAFETY APPAREL AND VEST (HIGH VISIBILITY)
ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH-VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES."

WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET, OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.



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 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 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
RAMP & ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS <= 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN 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.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (446), PG64-22, AS PER PLAN

ALONG ROADWAY SECTIONS WHERE THE CONTRACTOR CHOOSES TO FOLLOW SUPPLEMENTAL SPECIFICATION 872, VOID REDUCING ASPHALT MEMBRANE (VRAM), TO COMPLETED ITEM 874, LONGITUDINAL JOINT PREPARATION (METHOD 2), JOINT CORING IN ACCORDANCE WITH 446.04 IS NOT REQUIRED FOR COLD LONGITUDINAL JOINTS PLACED OVER VOID REDUCING ASPHALT MEMBRANE (VRAM). CONSTRUCT COLD LONGITUDINAL JOINTS OVER VRAM USING THE SAME TECHNIQUES, EQUIPMENT, AND ROLLER PATTERNS USED ON THE REST OF THE MAT. OBTAIN 10 MAT CORES FOR EACH LOT OF MATERIAL IN ACCORDANCE WITH 446.04. PAY FACTORS FOR EACH LOT OF MATERIAL WILL BE DETERMINED ACCORDING TO TABLE 446.04-2.

IN ADDITION, IF THE FOLLOWING CONDITIONS APPLY AND WHERE TRAFFIC IS ALLOWED TO CROSS THE EDGE OF THE NEW PAVEMENT LANE, THE CONTRACT DOES NOT NEED TO COMPLETE THE LONGITUDINAL JOINT OF THE ADJACENT LANE WITHIN 24 HOURS AS STATE IN CMS 401.17.

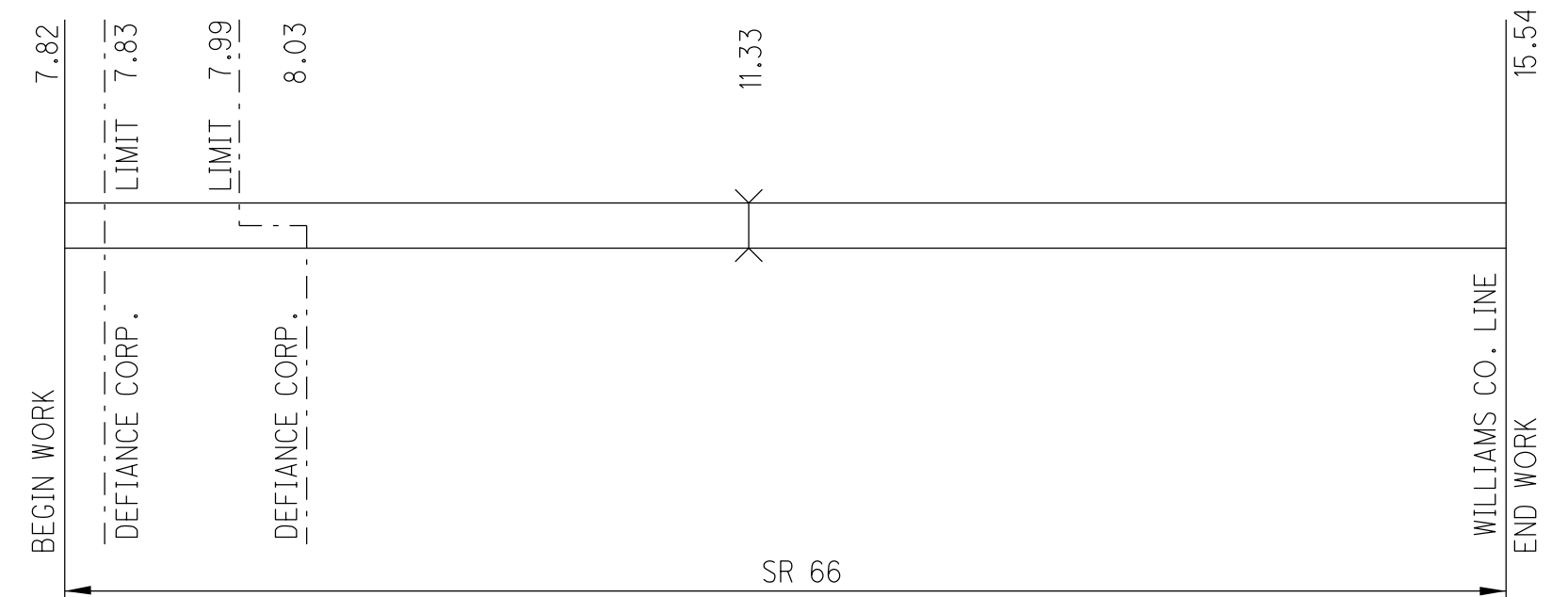
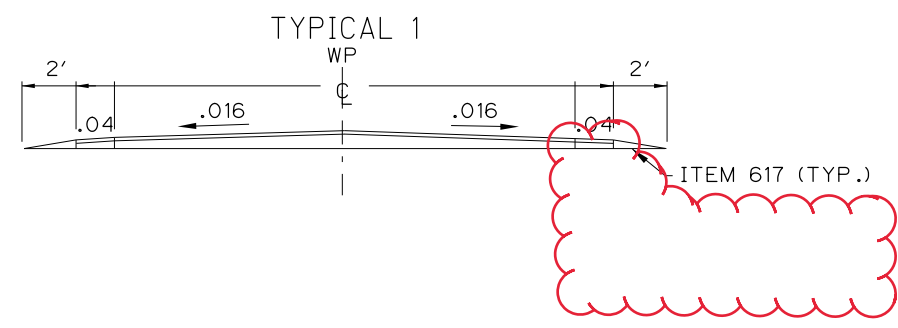
1. ALONG AREAS WITHIN THE PROJECT'S WORK LIMITS WERE ITEM 874, LONGITUDINAL JOINT PREPARATION IS SPECIFIED AND THE CONTRACTOR CHOOSES TO USE METHOD 1 FOR ITEM 874, LONGITUDINAL JOINT PREPARATION.
2. THE DROP-OFF BETWEEN THE ADJACENT TRAVELED LANE IS LESS THAN OR EQUAL TO ONE AND HALF INCHES (1 1/2") AND MEETS CONDITION 1 OF SCD MT-101.90
3. CONTRACTOR PROVIDES AND ERECTS THE APPROPRIATE SIGNS AS PER SCD MT-101.90. ALL COST ASSOCIATED FOR PROVIDING AND PLACING THE SIGNS SHALL BE INCIDENTAL TO THIS ITEM.

THE ABOVE SHALL BE APPLIED PER THE APPROVAL AND TO THE SATISFACTION OF THE PROJECT ENGINEER.

NOTE: ALL TOTALS CARRIED TO GENERAL SUMMARY

NOTE: MAILBOX AND DRIVE QUANTITIES ARE INCLUDED IN THE EXTRA AREAS

NOTE: DRAWINGS NOT TO SCALE



PAVEMENT DATA

ROUTE	FROM	TO	PLAN SPLITS	DISTANCE		PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	441		254		304	617	LONGITUDINAL JOINT PREPARATION		
				WEARING COURSE REMOVED	NON-TRACKING TACK COAT				ASPHALT CONCRETE SURFACE COURSE TYPE 1 (446), AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE TYPE 1 (448)	PAVEMENT PLANING, ASPHALT CONCRETE	PATCHING PLANED SURFACES	AGGREGATE BASE	COMPACTED AGGREGATE					
	SLM	SLM		MILES	FEET	FEET		SY	SY	GAL	THICKNESS 1 1/4"	THICKNESS 1 1/4"	THICKNESS 1 1/4"	2% PLANED AREA	QUANTITY FOR DRIVEWAYS	2 INCH AVG. TH.	FEET		
SR 66	7.82	7.83	02/S<2/PV	0.01	53	40	1	235		20	8		235	5		1	53		
SR 66	7.83	7.89	03/S<2/PV/DEF	0.06	317	40	1	1408		120	49		1408	28		8	317		
SR 66	7.89	7.96	03/S<2/PV/DEF	0.07	370	35 *	1	1437		122	50		1437	29		9	370		
SR 66	7.96	7.99	03/S<2/PV/DEF	0.03	158	30	1	528		45	18		528	11		4	158		
SR 66	7.99	8.04	03/S<2/PV/DEF	0.05	264	15	1	440		37	15		440	9		7	264		
SR 66	7.99	8.04	02/S<2/PV	0.05	264	15	1	440		37	15		440	9		7	264		
SR 66	8.04	9.08	02/S<2/PV	1.04	5491	30	1	18304		1556	636		18304	366	25	136	5491		
SR 66	9.08	11.33	01/STR/PV	2.25	11880	30	1	39600		3366	1375		39600	792	50	293	11880		
SR 66	11.33	11.34	01/STR/PV	0.01	53	bridge	no work												
SR 66	11.34	15.54	01/STR/PV	4.20	22176	30	1	73920		6283	2567		73920	1478	125	548	22176		
Plan Split 02 Extra Areas								328		28	11		328						
Plan Split 02 Intersections								552		47		20							
Plan Split 02 Totals									552	1688	670	20	19307	380	25	144		5808	
Plan Split 03 Extra Areas								88		7	3		88						
Plan Split 03 Totals										331	135		3901	77		28		1109	
Plan Split 01 Extra Areas								1056		90	37		1056						
Plan Split 01 Intersections								2236	2236	190		78							
Plan Split 01 Totals									2236	9929	3979	78	114576	2270	175	841		34056	
Totals									2788	11948	4784	98	137784	2727	200	1013		40973	

ASPHALT CONCRETE

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