

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**MIA-185-8.71**  
CITY OF PIQUA  
MIAMI COUNTY

PROJECT DESCRIPTION

THE PROPOSED WORK SHALL CONSIST OF PAVEMENT PLANING AND RESURFACING OF STATE ROUTE 185 WITH ASPHALT CONCRETE AS SET FORTH IN THESE PLANS.

① MIA-185-8.71 FROM CURB SECTION AT PLOUA CORP LIMIT (SLM 8.71 TO USR 36 (SLM 9.90))

PROJECT EARTH DISTURBED AREA: N/A \*  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A \*  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A \*

\* MAINTENANCE

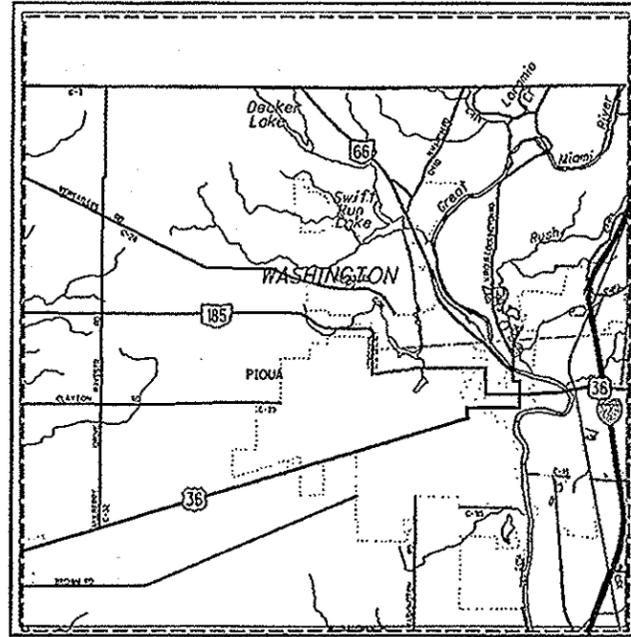
2013 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED *[Signature]*  
DATE 2-19-16 DISTRICT DEPUTY DIRECTOR

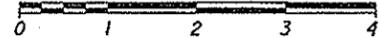
APPROVED *[Signature]*  
DATE 3-8-16 DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: N 40° 9' 10" LONGITUDE: W 84° 16' 9"

SCALE IN MILES



PORTION TO BE IMPROVED

INDEX OF SHEETS:

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES	3, 4
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FEDERAL PROJECT NO.  
E 130 (102)

PID NO.  
92661

CONSTRUCTION PROJECT NO.  
N/A

RAILROAD INVOLVEMENT  
NONE

MIA-185-8.71

1/8

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig  
1-800-362-2764

(Non-members must be called directly)  
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE  
1-800-925-0988

PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
1001 ST. MARYS AVENUE  
SIDNEY, OHIO 45365

ENGINEERS SEAL:

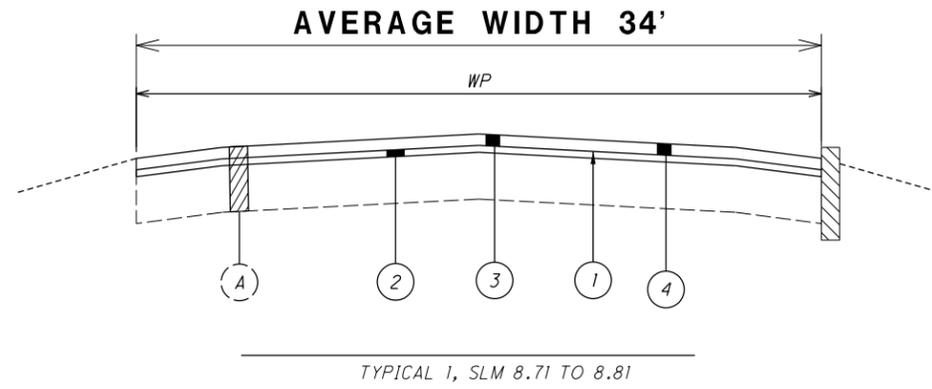
*[Professional Engineer Seal: Thomas M. Rosshah, No. 54477, Registered Professional Engineer]*  
SIGNED: *[Signature]*  
DATE: 2-18-16

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	7/18/14	TC-42.20	10/18/13	800	1/15/16		
		TC-52.10	10/18/13	821	4/20/12		
DM-4.3	1/15/16	TC-52.20	7/18/14	832	1/17/14		
DM-4.4	1/15/16	TC-71.10	1/17/14	921	4/20/12		
		TC-82.10	7/17/15				
MT-95.31	7/18/14						
MT-95.32	7/18/14						
MT-95.50	10/16/15						
MT-97.10	7/18/14						
MT-97.12	7/18/14						
MT-99.20	7/19/13						
MT-101.90	7/17/15						
MT-105.10	7/19/13						
MT-110.10	7/19/13						
TC-41.20	10/18/13						

MIA - SR 185-8.71  
160329 PID - 92661  
Dist 7 5/19/2016

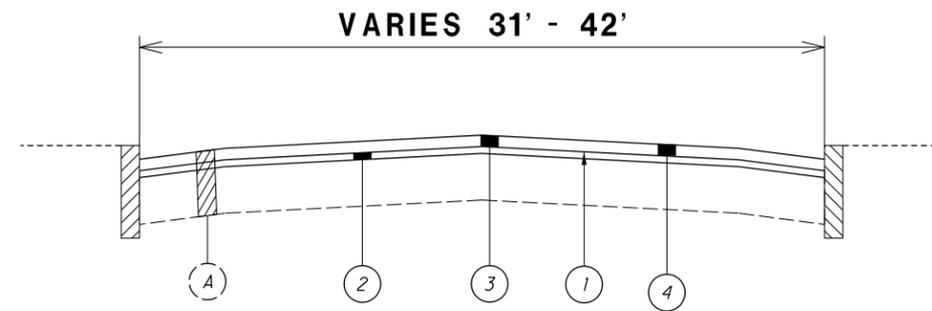
Contract Proposal Available @ www.  
Contracts.dot.state.oh.us/home

TYPICAL 1



TYPICAL 1, SLM 8.71 TO 8.81

TYPICAL 2



TYPICAL 2, SLM 8.81 TO 9.11  
SLM 9.11 TO 9.62

LEGEND

- A = EXISTING ASPHALT
- 1 = ITEM SPECIAL 407 TACK COAT, TRACKLESS TACK (0.115 GAL/SY)
- 2 = ITEM 441 INTERMEDIATE COURSE 0.75"
- 3 = ITEM 441 SURFACE COURSE 1.25"
- 4 = PAVEMENT PLANING AVG. 1.25"

WP = WIDTH OF PAVEMENT

**NOTIFICATION**

THE CONTRACTOR SHALL NOTIFY THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT SEVEN CONSTRUCTION ADMINISTRATOR (PHONE 937-497-6722) TWO WEEKS PRIOR TO THE BEGINNING OF ANY WORK.

**ITEM 659**

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED TO BACK UP THE PAVEMENT AS NEEDED IN THE LOCATIONS WITHOUT CURB.

ITEM 659	TOPSOIL	20 CU YD
ITEM 659	SEEDING AND MULCHING	275 SQ YD
ITEM 659	COMMERCIAL FERTILIZER	0.05 TON
ITEM 659	WATER	0.02 MGAL

**PROJECT COORDINATION AND BEGIN DATES:**

DUE TO VARIOUS OTHER PROJECTS AND IN PARTICULAR THE CITY OF PIQUA'S ADA RAMP WORK AND A GAS LINE PROJECT, NO WORK SHALL BEGIN ON THE PROJECT BEFORE JULY 15, 2016. THE CONTRACTOR SHALL CONTACT ODOT AND THE CITY OF PIQUA TO COORDINATE AND VERIFY THE PROGRESS OF THEIR WORK.

**ALIGNMENT AND PROFILE**

THE WORK PROPOSED BY THIS PROJECT CONSISTS OF PAVEMENT RESURFACING OF THE EXISTING PAVEMENT. THE ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT.

**ITEM 254 - PATCHING PLANED SURFACE, AS PER PLAN**

PAVEMENT AREAS DESIGNATED FOR PATCHING AFTER PAVEMENT PLANING OPERATION SHALL BE MILLED TWO INCHES (2") IN DEPTH, CLEAN AREAS OF LOOSE MATERIAL, APPLY TACK COAT AND AREA FILLED WITH ITEM 441, ASPHALT CONCRETE. LEVEL AND COMPACT NEW MATERIAL FLUSH TO THE ADJACENT PLANED SURFACE.

AN ESTIMATED QUANTITY OF 50 SQ YDS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

**ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), AS PER PLAN, PG70-22M.**

THE CONTRACTOR SHALL USE A MATERIAL TRANSFER VEHICLE FOR THE MAINLINE SURFACE COURSE. THIS VEHICLE SHALL BE A NON-CONTACT VEHICLE AND SHALL BE CAPABLE OF TRANSFERRING AND REMIXING THE ASPHALT CONCRETE FROM THE TRUNK TO THE PAVER. ALL COSTS ASSOCIATED WITH THIS EQUIPMENT SHALL BE INCLUDED IN ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), AS PER PLAN. THE BINDER TO BE USED SHALL BE PG70-22M.

**ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE**

AN ESTIMATED QUANTITY OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE HAS BEEN CARRIED TO THE GENERAL SUMMARY AND INCLUDED IN THE PLANS TO BE USED AS DIRECTED BY THE ENGINEER.

THE APPROXIMATE DEPTH OF PAVEMENT PLANING WILL BE TWO INCHES (2.00"). ALL PLANED CUTTINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT.

THE APPROXIMATE WIDTH OF PAVEMENT PLANING IS BETWEEN THIRTY-ONE FEET (31') AND FORTY TWO FEET (42').

THE CONTRACTOR SHALL BEGIN PLACEMENT OF ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE WITHIN FORTY-EIGHT (48) HOURS AFTER ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE IS COMPLETED ON A DAILY OPERATION.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE = 21992 SQ YD.

THERE ARE TEN (10) INTERSECTIONS INCLUDED WITHIN THE LIMITS AND QUANTITY OF THE PAVEMENT PLANING.

THERE ARE APPROXIMATELY SIXTY SEVEN (67) CASTINGS WITHIN THE PLANING AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR AND EQUIPMENT NECESSARY TO MAINTAIN TRAFFIC AROUND THE CASTINGS AND SHALL INCLUDE THE COST IN THE UNIT PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

MANHOLES = 32 EACH WATER VALVES = 35 EACH

ANY CASTINGS THAT REQUIRE ADJUSTING DURING CONSTRUCTION WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR. ANY NEW CASTING REQUIRED SHALL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF PIQUA AND PAID FOR UNDER ITEM 611 - MANHOLE ADJUSTED TO GRADE, OR ITEM 638 - VALVE BOX ADJUSTED TO GRADE.

AFTER COMPLETION OF ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, ANY UTILITY CASTINGS THAT REQUIRE ADJUSTMENT SHALL BE COMPLETED AS PER ITEM 611 AND ITEM 638. ADJUSTING DEVICES ON MANHOLE COVERS ARE PROHIBITED.

**ITEM 253, PAVEMENT REPAIR, AS PER PLAN**

PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH ITEM 253 - PAVEMENT REPAIR, WITH THE FOLLOWING ADDITIONS.

THE PAVEMENT REPAIR AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A NEAT LINE. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT. THE REPLACEMENT MATERIAL SHALL BE ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2.

THE ESTIMATED PAVEMENT REPAIR AREAS SHALL BE A MINIMUM OF FOUR FEET (4') IN WIDTH AND SIX INCHES (6.0") IN DEPTH AND SHALL BE FINISHED TO ACCOMMODATE THE PROPOSED OVERLAY.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN = 70 SY

**ITEM SPECIAL - TACK COAT, TRACKLESS TACK**

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH A TRACKLESS TACK ASPHALT EMULSION.

FURNISH MATERIALS ACCORDING TO THE DEPARTMENT'S APPROVED LIST.

MEET ALL REQUIREMENTS OF ITEM 407 TACK COAT IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRED BY THE CONTRACT, EXCEPT AS NOTED BELOW.

MATERIAL: MEET ALL PROPERTIES OF THE APPROVED MANUFACTURER'S TRACKLESS TACK SPECIFICATION REQUIREMENTS ON FILE WITH THE LABORATORY AT TIME OF PLACEMENT.

ACCEPTANCE AND SAMPLING OF MATERIALS: SUPPLY CERTIFIED TEST DATA TO THE ENGINEER AND TO THE DISTRICT LABORATORY DEMONSTRATING THE TRACKLESS TACK SUPPLIED WAS TESTED FOR AND MEETS ALL MATERIAL PROPERTIES SHOWN ON THE DEPARTMENTS APPROVED LIST.

DURING CONSTRUCTION, ODOT PERSONNEL WILL SAMPLE FROM THE DISTRIBUTOR AND SUPPLY TO THE DISTRICT TEST LAB A MINIMUM OF ONE QUART USED ON THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE PROPER PLASTIC QUART SAMPLING CONTAINER. CLEARLY MARK ON THE SAMPLE WITH THE MANUFACTURER'S NAME, PROJECT NUMBER AND THE WORDS "TRACKLESS TACK".

EQUIPMENT: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF PREVIOUSLY USED MATERIAL CHARGE IS DIFFERENT THAN THE PROPOSED MATERIAL.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE TRACKLESS TACK WITH A DISTRIBUTOR ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. IF TRACKLESS TACK IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL.

ENSURE ALL NOZZLES AND SPRAY PATTERNS ARE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. PLACE THE ANGLE OF THE NOZZLE AT A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE AND DISTRIBUTOR AND NOZZLE SETTINGS.

APPLY AT A RATE OF 0.04 TO 0.1 GALLONS PER SQUARE YARD. DO NOT DILUTE TRACKLESS TACK. RECOMMENDED APPLICATION TEMPERATURE IS 160 °F TO 180° F. DO NOT EXCEED 180° F. THE ENGINEER WILL APPROVE THE QUANTITY, RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TRACKLESS TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT.

PERFORMANCE OF TRACKLESS TACK: SET FOR THE MATERIAL TO BECOME TRACKLESS. THE ENGINEER WILL REPORT ANY ISSUES WITH EXCESSIVE TIME TO SET, OR AFTER SET ISSUES WITH STICKINESS, OR PICKUP OF THE TACK TO THE DISTRICT TESTING ENGINEER AND NEW PRODUCT ENGINEER, BRAD YOUNG 614-351-2882.

IF THE CERTIFIED TEST DATA FAILS TO MEET THE LAB TESTING CRITERIA, OR FIELD SAMPLES FAIL TO MEET THE LAB TEST CRITERIA, OR THE TRACKLESS TACK FAILS TO PERFORM SATISFACTORILY IN THE FIELD, AS NOTED ABOVE, THE

CONTRACTOR WILL BE REQUIRED TO REPLACE AND SUPPLY ANOTHER APPROVED TRACKLESS TACK PRODUCT FOR THE REMAINDER OF THE PROJECT AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY FAILING TRACKLESS TACK PRODUCT WILL BE REMOVED FROM THE DEPARTMENT'S APPROVED LIST.

**ITEM 644 - PAVEMENT MARKINGS**

THE CONTRACTOR SHALL DOCUMENT ALL EXISTING PAVEMENT MARKINGS TO BE REPLACED IN KIND.

THE CONTRACTOR SHALL COORDINATE AND COLLABORATE THE LAYOUT OF ALL PAVEMENT MARKINGS WITH THE CITY OF PIQUA. ALL PAVEMENT MARKINGS SHALL BE APPROVED BY THE CITY OF PIQUA PRIOR TO INSTALLATION.

**ITEM 632 - LOOP DETECTOR TIE-IN, AS PER PLAN**

THIS WORK SHALL CONSIST OF MAKING CONNECTIONS TO EXISTING LOOP DETECTOR LEAD-IN WIRE, WHETHER THAT WIRE IS UNDERGROUND OR AERIAL. INCLUDED IN THIS ITEM IS THE CONNECTOR KIT OR CABLE SPLICE KIT (CONFORMING TO 725.15) THAT MUST BE USED IN MAKING THESE CONNECTIONS.

ALL CONNECTIONS OF THE LOOP WIRE TO THE LOOP LEADS SHALL BE SOLDERED PRIOR TO BEING PLACED IN THE SPLICE KITS.

THIS ITEM IS NEEDED ONLY WHEN A TIE-IN SITUATION EXISTS. WHEN ALL NEW LEAD-IN WIRE IS SPECIFIED IN THE PLAN, THIS ITEM OF WORK IS NOT REQUIRED.

PAYMENT FOR THIS ITEM WILL INCLUDE ALL NECESSARY LABOR, MISCELLANEOUS HARDWARE AND EQUIPMENT REQUIRED TO PROVIDE FOR THE LOOP DETECTOR TIE-IN AND OPERATION. BASIS OF PAYMENT WILL BE AT THE CONTRACT BID PRICE PER EACH. LOOP DETECTOR TIE-IN, AS PER PLAN = 4 EACH

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GENERAL NOTES

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**ITEM 632 - DETECTOR LOOP, AS PER PLAN**

DURING THE COURSE OF THIS CONTRACT, IT MAY BE NECESSARY FOR THE CONTRACTOR TO COORDINATE LOOP DETECTOR WORK WITH THE DEPT. OF TRANSPORTATION (ODOT) AND OTHER CONTRACTORS INVOLVED WITH ASPHALT PLANING AND RESURFACING PROJECTS. THE CONTRACTOR SHALL REPLACE LOOP DETECTORS REMOVED BY ASPHALT PLANING OPERATIONS PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE.

THE CITY OF PIQUA WILL PROVIDE TO THE CONTRACTOR, A SET OF PLANS SHOWING THE LOCATION OF THE LOOPS TO BE REPLACED. THE CONTRACTOR SHALL COORDINATE ALL NECESSARY WORK.

THE FRONT EDGE OF THE POWERHEAD LOOP DETECTORS SHALL BE LOCATED 1 (ONE) TO 3 (THREE) FEET BEHIND THE REAR EDGE OF THE STOP LINE.

THE CONTRACTOR SHALL COORDINATE AND CORROBORATE THE LAYOUT OF ALL LOOP DETECTORS AND PAVEMENT MARKINGS WITH THE CITY OF PIQUA AND TO CONTACT THE CITY OF PIQUA AT 937-778-2044.

THE CITY OF PIQUA SHALL BE PRESENT WHEN THE CONTRACTOR MARKS THE LOCATION WHERE THE PAVEMENT IS TO BE SAWED TO BE ASSURED THAT THE PROPOSED LOOP DETECTORS ARE IN THE SAME PLACE AS THE EXISTING LOOP DETECTORS. ALL LOOP DETECTOR INSTALLATIONS SHALL BE COMPLETED BEFORE THE ASPHALT CONCRETE SURFACE COURSE IS PLACED.

THE CITY OF PIQUA SHALL BE RESPONSIBLE FOR DISCONNECTION AND RECONNECTION OF THE LOOP DETECTORS IN THE SYSTEM. THE CONTRACTOR SHALL GIVE THE CITY OF PIQUA (937-778-2044) FORTY-EIGHT (48) HOURS NOTICE BEFORE BEGINNING PAVEMENT PLANING IN AREAS WITH LOOP DETECTORS.

STANDARD CONSTRUCTION DRAWING, TC - 82.10  
LOCATIONS AND NUMBER OF LOOPS ARE AS FOLLOWS:

LOCATION	QUANTITY	DIMENSION/TYPE
SR 185 AT USR 36	2	6' X 30' POWERHEAD
SR 185 @ HIGH ST.	2	6' X 25' POWERHEAD

**ITEM 614, MAINTAINING TRAFFIC**

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF RESTRICTED TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE SPECIFICATION REQUIREMENTS FOR PROTECTION OF COMPLETED COURSES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL FURNISH AND ERECT "GROOVED PAVEMENT" SIGNS FOR ANY PLANED SURFACE OF THE ROADWAY REMAINING OPEN AT THE CONCLUSION OF A WORK DAY.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

\* DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

\* DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 75 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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GENERAL NOTES

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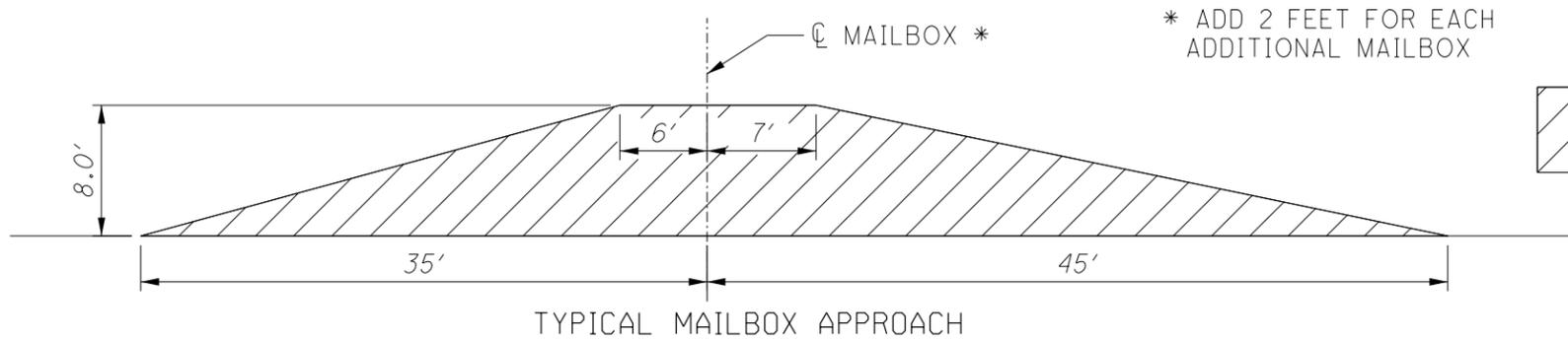
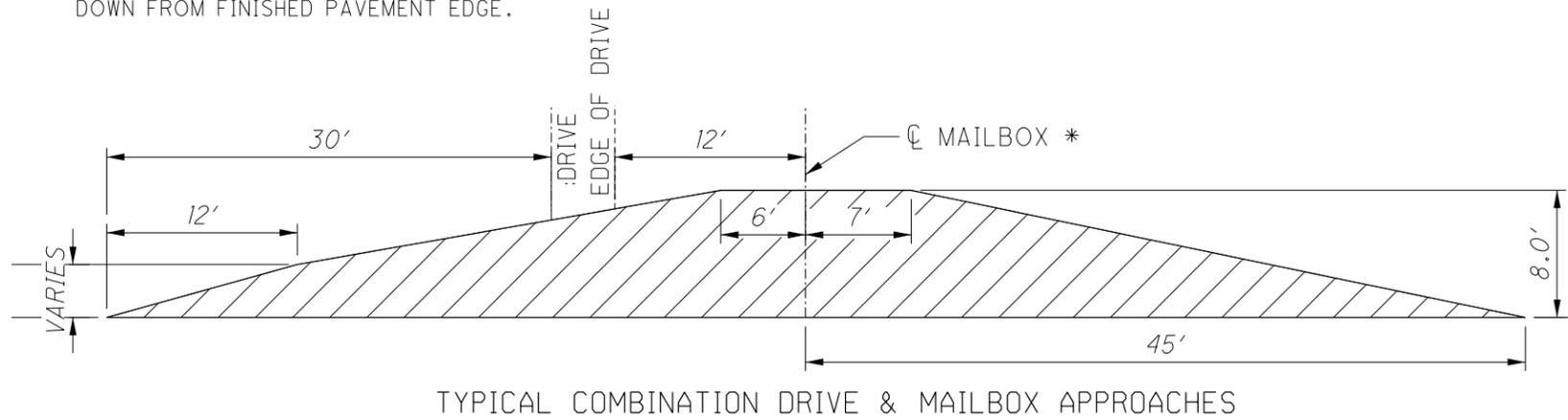
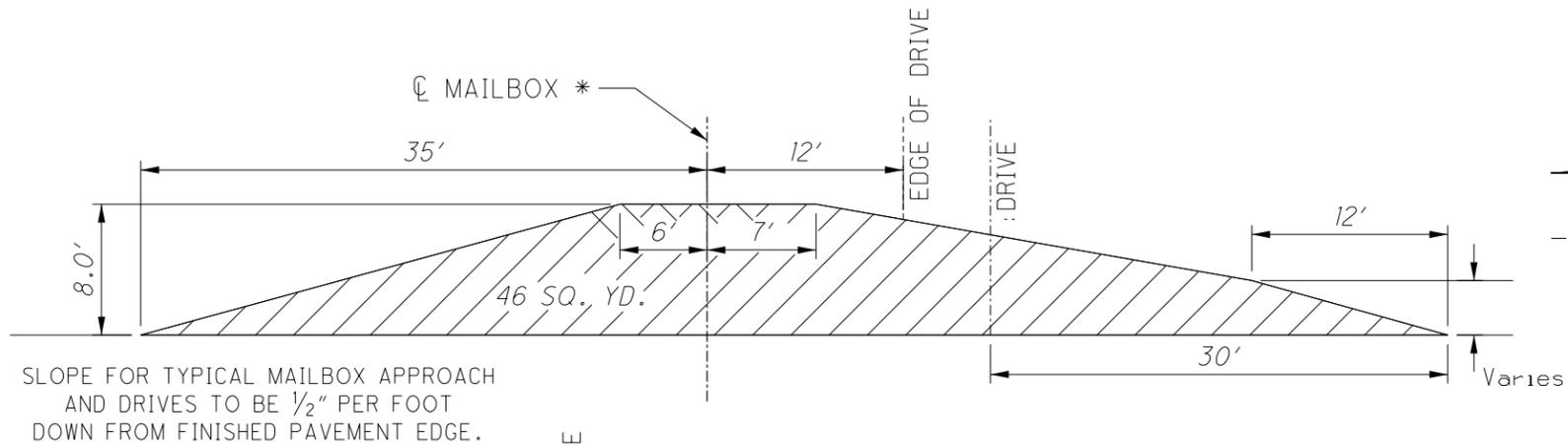
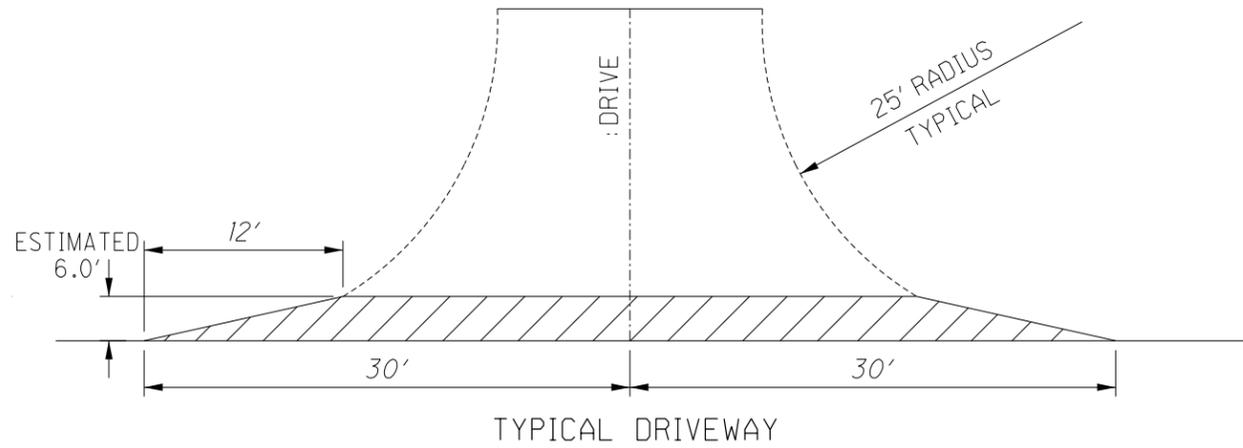
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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	6	8							01/SC2/PV							
<b>EROSION CONTROL</b>																	
20										20		659	00300	20	CY	TOPSOIL	
275										275		659	10000	275	SY	SEEDING AND MULCHING	
0.05										0.05		659	20000	0.05	TON	COMMERCIAL FERTILIZER	
0.02										0.02		659	35000	0.02	MGAL	WATER	
<b>DRAINAGE</b>																	
32										32		611	99654	32	EACH	MANHOLE ADJUSTED TO GRADE	
<b>PAVEMENT</b>																	
70										70		253	01001	70	SY	PAVEMENT REPAIR, AS PER PLAN	3
		21,992								21,992		254	01000	21,992	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
50										50		254	01601	50	SY	PATCHING PLANED SURFACE, AS PER PLAN	3
		2,528								2,528		SPECIAL	40720500	2,528	GAL	TACK COAT, TRACKLESS TACK	3
		763								763		441	50101	763	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M	4
		459								459		441	50200	459	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
<b>WATER WORK</b>																	
35										35		638	10800	35	EACH	VALVE BOX ADJUSTED TO GRADE	
<b>TRAFFIC CONTROL</b>																	
			0.41							0.41		644	00100	0.41	MILE	EDGE LINE, 4"	
			1.58							1.58		644	00200	1.58	MILE	LANE LINE, 4"	
			1.2							1.2		644	00300	1.2	MILE	CENTER LINE	
			1,177							1,177		644	00400	1,177	FT	CHANNELIZING LINE, 8"	
			412							412		644	00500	412	FT	STOP LINE	
			1,930							1,930		644	00600	1,930	FT	CROSSWALK LINE	
			109							109		644	00700	109	FT	TRANSVERSE/DIAGONAL LINE	
			1							1		644	01100	1	EACH	SCHOOL SYMBOL MARKING, 72"	
			1							1		644	01120	1	EACH	SCHOOL SYMBOL MARKING, 120"	
			19							19		644	01300	19	EACH	LANE ARROW	
			100							100		644	01500	100	FT	DOTTED LINE, 4"	
<b>TRAFFIC SIGNALS</b>																	
	4									4		632	26501	4	EACH	DETECTOR LOOP, AS PER PLAN	4
	4									4		632	27201	4	EACH	LOOP DETECTOR TIE IN, AS PER PLAN	3
<b>MAINTENANCE OF TRAFFIC</b>																	
	75									75		614	1110	75	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
										7		614	12460	7	EACH	WORK ZONE MARKING SIGN	
										4.74		614	20550	4.74	MILE	WORK ZONE LANE LINE, CLASS III, 642 PAINT	
										7.2		614	21550	7.2	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
										3,531		614	23680	3,531	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT	
										564		614	26610	564	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
<b>INCIDENTALS</b>																	
										LS		614	11000	LS		MAINTAINING TRAFFIC	
										LS		624	10000	LS		MOBILIZATION	

CALCULATED	SSS	CHECKED	TMR
GENERAL SUMMARY			
MIA - 185 - 8.71			
5	8		

ROUTE	SLM		SIDE	LENGTH (L)		AVG WIDTH (W) FT	PVMT AREA (A = L x W) SQ YD	TYPICAL	254	SPECIAL	441		441						
	FROM	TO		MILE	FT				PAVEMENT PLANING AVG. 2.00"	TACK COAT TRACKLESS TACK (0.115 GAL/SY) GAL	AC INTERMEDIATE COURSE, TYPE 1 AVG. THICK	CU YD	AC SURFACE COURSE, TYPE 1, AS PER PLAN AVG. THICK	CU YD					
MIA-185	8.71	8.81		0.10	528	34	1995	1	1995	229	0.75	42	1.25	69					
	8.81	9.11		0.30	1584	31	5456	2	5456	627	0.75	114	1.25	189					
	9.11	9.62		0.51	2693	42	12566	2	12566	1445	0.75	262	1.25	436					
	INTERSECTIONS (10)							1550		1550	178	0.75	32	1.25	54				
	EXTRA AREA TURN LANE							425		425	49	0.75	9	1.25	15				
	TOTAL MIA 185			0.91	4805		21992		21992	2528		459		763					
TOTALS CARRIED TO GENERAL SUMMARY									21992	2528		459		763					

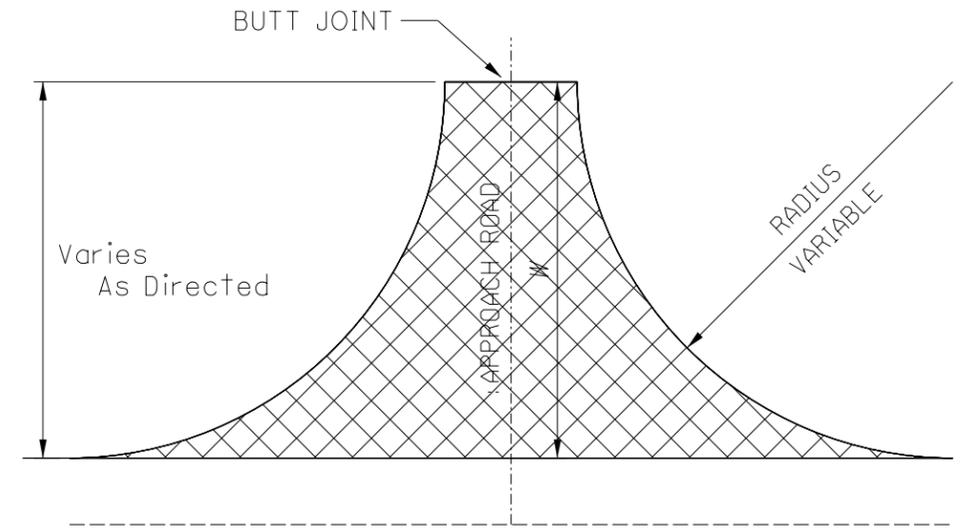
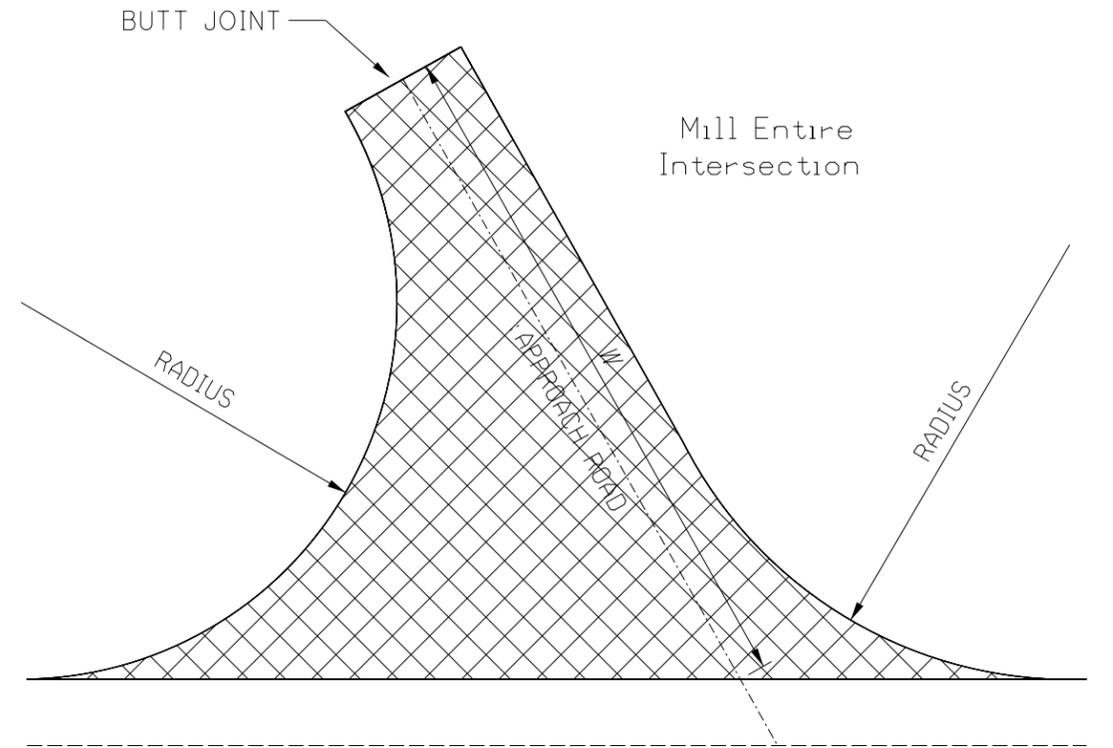
I:\ProjectData\MIA\92666\MIA-185-0871\Design\Roadway\Sheets\92666\_1\_GD001.dgn Sheet 2/22/2016 10:59:32 AM ssnell



\* ADD 2 FEET FOR EACH ADDITIONAL MAILBOX



PAVEMENT PLANING



W = To Back of Radius or As Directed By the Engineer

OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT SEVEN

TYPICAL APPROACHES FOR ROADS,  
DRIVES, AND MAILBOXES

ROUTE	SLM	LOCATION	SIDE	LANE WIDTH	644	644	644	644	644	644	644	644	644	644	644				
					EDGE LINE, 4"	LANE LINE, 4"	CENTER LINE	CHANNELIZING LINE, 8"	STOP LINE	CROSSWALK LINE	TRANSVERSE/DIAGONAL LINE	SCHOOL MARKING, 72"	SCHOOL MARKING, 120"	LANE ARROW	DOTTED LINE, 4"				
					MILE	MILE	MILE	FT	EACH	FT	FT	EACH	EACH	EACH	FT				
MIA 185	8.80	EAGLES LAKE							28	146									
	8.81	OMEGA							22										
	8.91	ALPHA							25										
	8.97	PARKWAY										1							
	9.11	PARK					127		55	268				4					
	9.17	CLIFTON											1						
	9.20	BLACKWELL							16	96									
	9.25	PARKRIDGE							19	140									
	9.27	MAPLEWOOD							16	96									
	9.44	HIGH ST.					700		90	502	109			6	100				
	9.52	JEAN							18	104									
	9.60	PETERS							16	208									
	9.62	COMMERCE							67	202									
	9.90	USR 36					350		40	168				9					
		8.70 - 9.11			0.41														
		9.11 - 9.90				1.58													
		8.70 - 9.90					1.20												
TOTALS CARRIED TO GENERAL SUMMARY					0.41	1.58	1.20	1177	412	1930	109	1	1	19	100				

PAVEMENT MARKING SUBSUMMARY

MIA - 185 - 8.71

