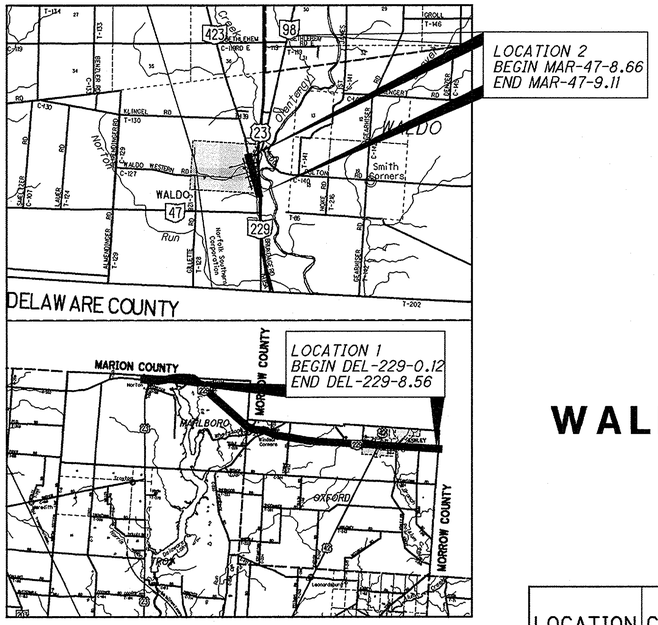

LOCATION MAP

LOC 1: LATITUDE: N 40°24'49" LONGITUDE: W 83°00'37"

SCALE IN MILES

0 1 2

LOC 2: LATITUDE: N 40°26'59" LONGITUDE: W 83°13'19"

SCALE IN MILES

0 1 2 3 4

N

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

DESIGN DESIGNATION	DEL-SR-229	MAR-SR-47
CURRENT ADT (2012)	2766	3260
DESIGN YEAR ADT (2024)	3656	4300
TRUCKS (24 HOUR B&C 2012)	246	315
DESIGN SPEED	60	60
LEGAL SPEED	55	55

DESIGN FUNCTIONAL CLASSIFICATION:
MAR-47: RURAL MAJOR COLLECTOR
DEL-229: RURAL MAJOR COLLECTOR

NHS PROJECT N/A N/A

DESIGN EXCEPTIONS NONE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:

ODOT DISTRICT SIX PRODUCTION
400 EAST WILLIAM STREET
DELAWARE, OHIO 43015

ENGINEERS SEAL:

STATE OF OHIO
STEVEN D FELLENGER
#71781
REGISTERED
PROFESSIONAL ENGINEER

SIGNED Steven Fellenger
DATE 1-19-2012

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

DEL-229-0.12

WALDO, MARLBORO AND OXFORD TOWNSHIPS

DELAWARE AND MARION COUNTIES

LOCATION	COUNTY	ROUTE	SECTIONS	PROJECT TERMINII BEGIN	PROJECT TERMINII END	NET LENGTH MI	MUNICIPALITY
1	DEL	SR-229	(0.12- 7.44)	0.12	8.56	8.44	ASHLEY
2	MAR	SR-47	(0.00-7.20)	8.66	9.11	0.45	WALDO

PROJECT DESCRIPTION

RESURFACING 0.45 MILES OF MAR SR-47 AND 8.44 MILES OF DEL SR-229. ALSO VARIOUS BRIDGE WORK IN DELAWARE COUNTY.

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

2010 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.

INDEX OF SHEETS:

TITLE SHEET	1
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MOT NOTES	5
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PAVEMENT SUBSUMARY	7-8
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RPM SUBSUMMARY	11
MISC. DETAILS	12
NO PASS ZONE LOG	13-17
STRUCTURES (20' AND OVER)	18

PLANS CERTIFIED BY:
NAME: Jimmie Shean DATE: 1-19-2012
DISTRICT 6
OHIO DEPT. OF TRANSPORTATION

STANDARD CONSTRUCTION DRAWINGS

								SUPPLEMENTAL. SPECIFCATIONS	
BP-3.1	10/19/07	TC-41.20	01/19/01					800-2010	01/20/12
BP-4.1	07/16/04	TC-42.20	01/21/11					832	05/05/09
MT-35.10	04/20/01	TC-52.10	01/19/07						
MT-95.30	07/17/09	TC-52.20	01/19/07						
MT-97.10	10/15/10	TC-65.10	01/21/05						
MT-97.12	10/15/10	TC-65.11	01/21/05					SPECIAL PROVISION	
MT-99.20	01/16/09	TC-71.10	01/21/11						
MT-105.10	01/16/09	TC-73.10	10/21/11						
RM-1.1	07/15/11	TC-82.10	01/21/11						

Approved
Date 1-20-12 District Deputy Director

Approved
Date 2-17-12 Director, Department of Transportation

FEDERAL PROJECT NO. E111(453)
PID NO. 78168
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT
DEL-229-0.12

DEL - SR-229-0.12
120245 PID - 78168
Dist 6 4/26/2012
Contract Proposal Available
@www.contracts.dot.state.oh.us/home
I:\Projects\del\229\0012.013\78168\production\roadway\DGN\Ge

UTILITIES OWNERSHIP:
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

Paul Paxton
AEP
850 Tech Center Drive
Gahanna, OH 43230-6605
614.883.6831

Tiffany Fritchley
Columbia Gas of Ohio
1120 West Fourth Street
Mansfield, OH 44906
419.528.1137

Tim Applegate
Consolidated Electric Cooperative, Inc.
5255 State Route 95
P. O. Box 111
Mt. Gilead, OH 43338-0111
419.947.3055

Shane Clark
Del-Co Water Company
6658 Olentangy River Road
Delaware, OH 43015
740.548.7746

Mr. Chris Avery
Frontier Communications
1300 Columbus Sandusky Road
Marion, OH 43302
740.383.0551

Ray Maurer
Time Warner Cable
3760 Interchange Drive
P.O. Box 2553
Columbus, OH 43216-2553
614.481.5262/614.348.2979

Amerigas Propane
7625 Industrial Parkway
Plain City, OH 43064
614.771.8500

Carl Donahue
AT&T Corp.
5980-G Wilcox Place
Dublin, OH 43016
614.760.8320/847.420.9115

Tiffany Fritchley
Columbia Gas of Ohio
1120 West Fourth Street
Mansfield, OH 44906
419.528.1137

Tim Applegate
Consolidated Electric Cooperative, Inc.
5255 State Route 95
P. O. Box 111
Mt. Gilead, OH 43338-0111
419.947.3055

Shane Clark
Del-Co Water Company
6658 Olentangy River Road
Delaware, OH 43015
740.548.7746

Mr. Chris Avery
Frontier Communications
1300 Columbus Sandusky Road
Marion, OH 43302
740.383.0551

Mr. Chris Harper
Ohio Edison Company
420 South York Street
Springfield, OH 45505
937.327.1283

George W. McElvain
Qwest Communications Company, LLC
1801 California St, Fl 26
Denver, Colorado 80202
303.299.0170

Joe Thomas
Sprint Communications
11370 Enterprise Park Drive
Sharonville, OH 45241
513.612.4204

Verizon Business
Dept. 42864 Loc 107
2400 North Glenville
Richardson, TX 75082
(fax) 972.729.6240
ODOT - District 6 Traffic
400 East William Street
Delaware, OH 43015
740.833.8332

UNDERGROUND UTILITIES:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ANY UNDERGROUND UTILITIES MARKED.
OHIO UTILITY PROTECTION SERVICE 1-800-362-2764
NON-MEMBERS MUST BE CALLED DIRECTLY.

ALIGNMENT AND PROFILE:
THE WORK PROPOSED BY THIS PROJECT IS FOR THE 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 EXCEPT THAT IT MAY BE RAISED AN AMOUNT EQUAL TO THE THICKNESS OF THE RESURFACING COURSE OR COURSES SPECIFIED IN THESE PLANS.

CONTRACTORS EQUIPMENT - OPERATION AND STORAGE:
THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTOR'S STORAGE ARE

CONTINGENCY QUANTITIES:
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE:
THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY AND ALL DAMAGE THAT MAY RESULT FROM THE PLANING OPERATION. PLANED PAVEMENT SHALL NOT BE EXPOSED TO TRAFFIC FOR MORE THAN 5 DAYS PRIOR TO PLACEMENT OF ITEM 442 OR 448 - ASPHALT CONCRETE SURFACE COURSES. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROWN DURING THE PLANING OPERATION.

ITEM 407 - TACK COAT:
THE TACK COAT OPERATION SHALL BE AS DETERMINED AT A PRE-CONSTRUCTION CONFERENCE AS PER 407.06 AND APPLICATION RATES SHALL NOT EXCEED 0.075 GALLONS PER SQUARE YARD.

ITEM 604 - MONUMENT BOX ADJUSTED TO GRADE:
THIS ITEM OF WORK WILL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND HARDWARE NECESSARY TO ADJUST TO GRADE THE EXISTING MONUMENT BOX TO 1/4 INCH BELOW THE PROPOSED ASPHALT ELEVATION AT THE FOLLOWING LOCATIONS.

SR.ROUTE	INTERSECTION	QUANTITY	UNIT
SR.229	US-42 RD.	1	EACH
SR.229	WESTFIELD RD.	1	EACH
SR.229	STRINE RD.	1	EACH
SR.229	BENEDICT RD.	1	EACH
SR.229	NORTON RD.	1	EACH
		5	EACH

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.
ITEM 604 - MONUMENT BOX ADJUSTED TO GRADE: = 5 EACH

ITEM 604 - MONUMENT BOX COVER:
REPLACE MONUMENT COVER IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWING AT THE FOLLOWING LOCATION: SR-229 AT US-42
ITEM 604-MONUMENT BOX COVER = 1 EACH

ITEM 619 - FIELD OFFICE, TYPE A
UNDER THIS ITEM, THE CONTRACTOR SHALL PROVIDE A FIELD OFFICE MEETING ALL REQUIREMENTS OF ITEM 619 - FIELD OFFICE, TYPE A. THE FOLLOWING QUANTITY HAS BEEN PROVIDED:
ITEM 619 - FIELD OFFICE, TYPE A = 2 MONTHS

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN:
THIS ITEM SHALL CONSIST OF STATIONING USING 3 FT LATH STAKES. THE STAKES SHALL BE SPACED AT 100 FT INTERVALS AND SHALL EXTEND THROUGHOUT THE LENGTH OF THE PROJECT AND THROUGHOUT THE LENGTH OF ALL RAMPS. PLACEMENT OF THE STAKES SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED OR MISSING STAKES.CONSTRUCTION LAYOUT STAKES, AS PER PLAN WILL BE PAID FOR AT THE CONTRACT LUMP SUM BID, WHICH SHALL BE FULL COMPENSATION FOR ALL SERVICES, MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS, INCLUDING THE REMOVAL, NECESSARY TO COMPLETE THIS ITEM.

CALCULATED
CHECKED

GENERAL NOTES

DEL-229-0.12

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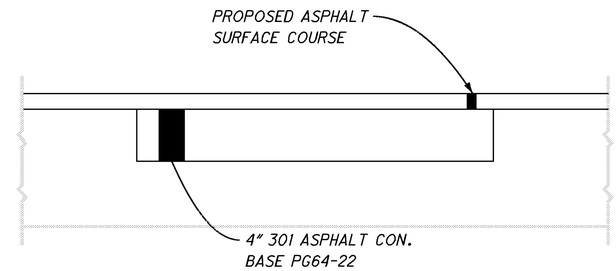
ITEM 251 -PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN:
REPAIR AREAS SHALL BE DETERMINED BY THE PROJECT ENGINEER BEFORE THE BEGINNING OF WORK. REPAIRS SHALL CONSIST OF REMOVING 4" OF PAVEMENT AND PLACING 4" OF ITEM 301 - ASPHALT CONCRETE BASE FOR AN AVERAGE WIDTH OF 4'. WORK SHALL BE PERFORMED PRIOR TO RESURFACING AND REPAIR AREAS ARE TO BE INCLUDED INTO GENERAL RESURFACING. THE QUANTITY SHOWN ALLOWS FOR CONTINGENCY AREAS AS DIRECTED BY THE ENGINEER.

Begin (SLM)	End (SLM)	Width (ft)	Length (ft)	Area (s.f.)	Area (s.y.)	Comments
0.09	0.11	4	86	344	38	Eastbound 4' wide edge
0.12	0.22	4	495	1980	220	Eastbound 4' wide edge
0.23	0.24	24	62	1488	165	Both lanes
0.28	0.30	24	103	2472	275	Both lanes
0.30	0.34	12	214	2568	285	Westbound lane
0.58	0.60	4	89	356	40	Eastbound 4' wide edge
0.64	0.64	4	10	40	4	Eastbound 4' wide edge
0.70	0.71	4	37	148	16	Westbound 4' wide edge
0.73	0.74	4	65	260	29	Eastbound 4' wide edge
0.74	0.82	4	404	1616	180	Eastbound 4' wide edge
0.96	1.01	12	259	3108	345	Eastbound lane
1.01	1.02	4	60	240	27	Eastbound 4' wide edge
1.05	1.06	4	68	272	30	Eastbound 4' wide edge
1.14	1.17	4	122	488	54	Eastbound 4' wide edge
1.25	1.26	4	34	136	15	Eastbound 4' wide edge
1.39	1.42	8	125	1000	111	westbound 8' wide
1.45	1.46	8	27	216	24	Westbound 8' wide
1.54	1.55	4	65	260	29	Eastbound 4' wide edge
1.57	1.71	4	750	3000	333	Westbound 4' wide edge
1.80	1.82	4	70	280	31	Westbound 4' wide edge
1.85	1.86	4	70	280	31	Westbound 8' wide
1.88	1.90	4	60	240	27	Eastbound 4' wide edge
1.90	1.91	4	76	608	68	Both directions 4' wide edge
1.91	1.93	8	129	1032	115	Westbound 8' wide
1.93	1.97	4	165	660	73	Westbound 4' wide edge
1.97	1.99	8	135	1080	120	Westbound 8' wide
1.99	2.00	4	55	220	24	Westbound 4' wide edge
2.06	2.08	4	90	360	40	Westbound 4' wide edge
2.17	2.17	4	10	40	4	4' wide middle of lane
2.18	2.19	4	27	108	12	Eastbound 4' wide edge
2.25	2.26	4	59	236	26	Westbound 4' wide edge
2.26	2.29	4	137	548	61	Westbound 4' wide edge
2.29	2.30	4	55	220	24	Eastbound 4' wide edge
2.34	2.34	4	31	124	14	Eastbound 4' wide edge
2.51	2.54	4	147	588	65	Westbound 4' wide edge
2.62	2.63	4	54	432	48	Both directions 4' wide edge
2.63	2.64	4	84	336	37	Westbound 4' wide edge
2.84	2.86	4	101	404	45	Westbound 4' wide edge
3.18	3.19	4	24	96	11	Eastbound 4' wide edge
3.21	3.23	4	147	588	65	Eastbound 4' wide edge
3.32	3.35	4	163	652	72	Westbound 4' wide edge
3.35	3.38	4	163	1304	145	Both directions 4' wide edge
3.38	3.42	4	192	768	85	Westbound 4' wide edge
3.45	3.47	4	115	460	51	Eastbound 4' wide edge
3.51	3.52	8	65	1040	116	8' wide both sides
3.61	3.61	4	26	104	12	Eastbound 4' wide edge
3.62	3.66	4	203	1624	180	Both directions 4' wide edge
3.66	3.86	4	1052	4208	468	Eastbound 4' wide edge
3.90	3.93	4	196	1568	174	Both directions 4' wide edge
3.95	4.00	4	239	1912	212	Both directions 4' wide edge

PARTIAL DEPTH PAVEMENT REPAIR A.P.P. DETAIL



Begin (SLM)	End (SLM)	Width (ft)	Length (ft)	Area (s.f.)	Area (s.y.)	Comments
4.00	4.03	4	133	1064	118	Both directions 4' wide edge
4.03	4.05	4	157	628	70	Westbound 4' wide edge
4.05	4.12	8	360	2880	320	Westbound 8' wide
4.11	4.12	4	92	368	41	Eastbound 4' wide edge
4.12	4.20	4	425	1700	189	Westbound 4' wide edge
4.22	4.24	8	147	1176	131	Eastbound 8' wide
4.25	4.29	4	202	808	90	Westbound 4' wide edge
4.29	4.30	8	38	304	34	Westbound 8' wide
4.30	4.34	8	171	1368	152	Westbound 8' wide
4.34	4.42	4	429	1716	191	Westbound 4' wide edge
4.46	4.47	4	50	200	22	Eastbound 4' wide edge
4.53	4.55	4	117	936	104	Both directions 4' wide edge
4.61	4.62	4	77	616	68	Both directions 4' wide edge
4.62	4.70	4	404	1616	180	Westbound 4' wide edge
4.70	4.72	4	101	808	90	Both directions 4' wide edge
4.72	4.76	4	242	968	108	Eastbound 4' wide edge
4.83	4.85	4	118	472	52	Eastbound 4' wide edge
4.85	4.89	4	163	1304	145	Both directions 4' wide edge
4.89	5.00	4	607	2428	270	Eastbound 4' wide edge
5.05	5.11	4	347	1388	154	Eastbound 4' wide edge
5.23	5.24	4	54	216	24	Eastbound 4' wide edge
5.26	5.30	4	193	772	86	Westbound 4' wide edge
5.27	5.32	4	289	1156	128	Eastbound 4' wide edge
5.39	5.43	4	205	820	91	Eastbound 4' wide edge
5.43	5.44	4	48	384	43	Both directions 4' wide edge
5.61	5.61	4	20	80	9	Eastbound 4' wide edge
5.76	5.77	4	38	152	17	Eastbound 4' wide edge
5.93	5.98	4	243	972	108	Eastbound 4' wide edge
6.01	6.04	4	130	520	58	Eastbound 4' wide edge
6.05	6.07	4	136	544	60	Eastbound 4' wide edge
6.11	6.13	4	86	344	38	Eastbound 4' wide edge
6.14	6.16	4	106	424	47	Westbound 4' wide edge
6.18	6.20	4	111	444	49	Westbound 4' wide edge
6.23	6.23	4	20	80	9	Eastbound 4' wide edge
6.24	6.30	4	293	1172	130	Eastbound 4' wide edge
6.40	6.43	4	172	688	76	Eastbound 4' wide edge
7.58	7.64	4	327	1308	145	Eastbound 4' wide edge
7.67	7.85	4	926	3704	412	Eastbound 4' wide edge
8.13	8.20	4	346	1384	154	Eastbound 4' wide edge
8.32	8.38	4	300	1200	133	Eastbound 4' wide edge
8.47	8.53	4	332	1328	148	Eastbound 4' wide edge

ITEM 251-PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN = 9,172 SQ.YD.

CALCULATED
CHECKED

GENERAL NOTES

DEL-229-0.12

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PAVEMENT MARKING:
THE LOCATIONS, SIZES AND SHAPES OF PROPOSED PAVEMENT MARKINGS WILL BE THE SAME AS EXISTING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE AND SHAPE OF THE EXISTING PAVEMENT MARKINGS BEFORE THE PAVEMENT PLANING AND RESURFACING OBLITERATES THEM. ANY PAVEMENT MARKING WHICH IS PLACED AT THE WRONG LOCATION SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

WATER QUALITY PROTECTION:
NO TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND SHALL BE DISCHARGED TO ANY STREAMS, DRAINAGE COURSES, OR BODIES OF WATER. ALL ASPHALT OR CONCRETE GRINDINGS, EXCESS ASPHALTIC OR CONCRETE MATERIALS OR ANY OTHER DEBRIS GENERATED DURING RESURFACING OR OTHER SIMILAR ACTIVITIES SHALL BE NOT BE DISPOSED OF WITHIN A FLOODPLAIN BELOW THE 100-YEAR FLOOD ELEVATION.
THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT LIQUIDS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE (I.E. PAINT, SEALER, SOLVENT) FROM ENTERING STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

THE WORK ASSOCIATED WITH THIS PROJECT IS BEING PERFORMED WITHIN THE SOURCE WATER PROTECTION AREA FOR DELCO OLENTANGY DRINKING WATER SOURCE PROTECTION AREA.IT IS ESSENTIAL THAT ALL ACTIVITIES ASSOCIATED WITH THIS WORK BE PERFORMED IN A MANNER CONSISTENT WITH BEST WATERSHED MANAGEMENT PRACTICES INCLUDING, BUT NOT LIMITED TO: AREAS OF DISTURBED GROUND SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. IF HAZARDOUS/TOXIC MATERIALS INCLUDING BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS, ARE STORED ON SITE, THEY SHALL BE STORED IN A DOUBLE-CONTAINMENT MANNER. ALL EQUIPMENT REPAIRS, MAINTENANCE, AND MECHANICAL WORK THAT COULD RESULT IN THE RELEASE OF HAZARDOUS/TOXIC MATERIALS SHALL BE PERFORMED IN AN APPROPRIATELY CONTAINED AREA, PREFERABLY OFF SITE OR AN APPROPRIATE OFF-SITE FACILITY. IN THE EVENT THAT ANY HAZARDOUS/TOXIC MATERIALS INCLUDING, BUT NOT LIMITED TO FUELS, OILS, BITUMEN'S PAINTS, SEALANTS, OR OTHER CHEMICALS ARE SPILLED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY EMERGENCY SERVICES BY CALLING 911, THE OHIO EPA @ (800) 282-9378 AND THE DEL-CO WATER COMPANY @ (740)584-7746. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE DETAILED INFORMATION RELATIVE TO THE TYPE AND QUANTITY OF MATERIAL THAT HAS BEEN SPILLED AS WELL AS THE EXACT LOCATION AND THE EXACT TIME AT WHICH THE SPILL OCCURRED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INFORMING ALL SUBCONTRACTORS AND OTHER AGENTS OF THESE RESPONSIBILITIES, PRECAUTIONS, AND PROHIBITIONS.

NOISE PROTECTION:
IN AN EFFORT TO MINIMIZE NOISE DURING CONSTRUCTION, ALL CONSTRUCTION EQUIPMENT OPERATION MUST CONFORM TO ANY AND ALL PERTINENT LOCAL NOISE ORDINANCES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF THERE ARE ANY PERTINENT LOCAL NOISE ORDINANCES, AND, IF THERE ARE ANY, TO ENSURE THAT THEY ARE COMPLIED WITH THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.

EXISTING MAILBOXES AND MAILBOX POSTS:
GREAT CARE SHALL BE TAKEN TO PREVENT DAMAGE TO ANY OF THE EXISTING MAILBOXES OR MAILBOX POSTS DURING THE PAVING OPERATIONS. ANY MAILBOX OR MAILBOX POST WHICH BECOMES DAMAGED BY THE CONTRACTOR'S PAVING OPERATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

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. 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 SHOULD LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATIONS OFFICE
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	>= 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

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

NOTIFICATION OF CONSTRUCTION INITIATION
AT LEAST FOURTEEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.STATE.OH.US AND THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.STATE.OH.US OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

GENERAL:
THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 108.02) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ITEM 614 - WORK ZONE MARKING SIGN:
LOCATION 1: DEL SR 229: LOCATION 2: MAR SR 47
THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED:
OW-167-36 "NO EDGE LINES" = 20 EACH
R4-1-36 "DO NOT PASS" = 20 EACH
ITEM 614 - WORK ZONE MARKINGS SIGN = 40 EACH

ITEM 614 - WORK ZONE CENTER LINE, CLASS II:
THE FOLLOWING QUANTITY HAS BEEN PROVIDED:
LOCATION 1: DEL SR 229:
SLM 0.12 - 6.39 = 3.58 MI. X 1 APPLICATION = 7.16 MILE.
SLM 6.39 - 7.36 = 0.97 MI. X 2 APPLICATION = 1.94 MILE.
SLM 7.36 - 8.56 = 1.20 MI. X 1 APPLICATION = 1.20 MILE.
LOCATION 2: UNI SR 47:
SLM 8.66 - 9.11 = 0.45 MI. X 2 APPLICATION = 0.90 MILE.
TOTALS:
ITEM 614 - WORK ZONE CENTER LINE, CLASS II: = 11.20 MILE.

ITEM 614 - MAINTAINING TRAFFIC:
TRAFFIC SHALL BE MAINTAIN BY FLAGGERS AS PER MT-97.12. COSTS TO MAINTAIN TRAFFIC SHALL BE INCLUDED WITH:
ITEM 614 - MAINTAINING TRAFFIC = LUMP

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.PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE.

PLACEMENT OF ASPHALT CONCRETE
TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

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 CMS 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.

• WORK AT THE SR 229 SIGNALIZED INTERSECTION 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).

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

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: = 16 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

CALCULATED
CHECKED

MAINTENANCE OF TRAFFIC

DEL-229-0.12

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SHEET NUMBER 2	3	5	7	8	9	10	11	12	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
													ROADWAY	
					38			75	203	10000	113	CU YD	EXCAVATION	
								1,800	204	10000	1,800	SQ YD	SUBGRADE COMPACTION	
5									604	39500	5	EACH	MONUMENT BOX ADJUSTED TO GRADE	
1									604	40800	1	EACH	MONUMENT BOX COVER	
													EROSION CONTROL	
									832	30000	1000	EACH	EROSION CONTROL	
													PAVEMENT	
	9,172								251	01001	9,172	SQ YD	PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN	3
			15,315	10,560					254	01000	25,875	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE	
					20				301	46000	20	CU YD	ASPHALT CONCRETE BASE, PG64-22	
					20				304	20000	20	CU YD	AGGREGATE BASE	
			9,223	792	9			140	407	10000	10,164	GALLON	TACK COAT	
			2		7				442	20000	9	CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)	
			5,066	440				152	448	47020	5,658	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
			521	29	4				617	10100	554	CU YD	COMPACTED AGGREGATE	
													TRAFFIC CONTROL	
							567		621	00100	567	EACH	RPM	
							208		621	54000	208	EACH	RAISED PAVEMENT MARKER REMOVED	
						16.88			642	00090	16.88	MILE	EDGE LINE	
						8.89			642	00290	8.89	MILE	CENTER LINE	
						59			644	00500	59	FT	STOP LINE	
						176			644	00600	176	FT	CROSSWALK LINE	
						1			644	01100	1	EACH	SCHOOL SYMBOL MARKING, 72"	
													STRUCTURES (20' AND OVER)	
													DEL-229 0093 (SFN# 2102730) SEE SHEET 18/18 FOR ESTIMATED QUANTITIES	
													DEL-229 0136 (SFN# 2102765) SEE SHEET 18/18 FOR ESTIMATED QUANTITIES	
													DEL-229 0336 (SFN# 2102854) SEE SHEET 18/18 FOR ESTIMATED QUANTITIES	
													DEL-229 0745 (SFN# 2102889) SEE SHEET 18/18 FOR ESTIMATED QUANTITIES	
													MAINTENANCE OF TRAFFIC	
		16							614	11110	16	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		40							614	12460	40	EACH	WORK ZONE MARKING SIGN	
		11.20							614	21400	11.20	MILE	WORK ZONE CENTER LINE, CLASS II	
		LUMP							614	11000	LUMP		MAINTAINING TRAFFIC	
2									619	16000	2	MONTH	FIELD OFFICE, TYPE A	
									623	10001	LUMP		CONSTRUCTION LAYOUT STAKES, AS PER PLAN	2
									624	10000	LUMP		MOBILIZATION	

CALCULATED

CHECKED

GENERAL SUMMARY

DEL-229-0.12

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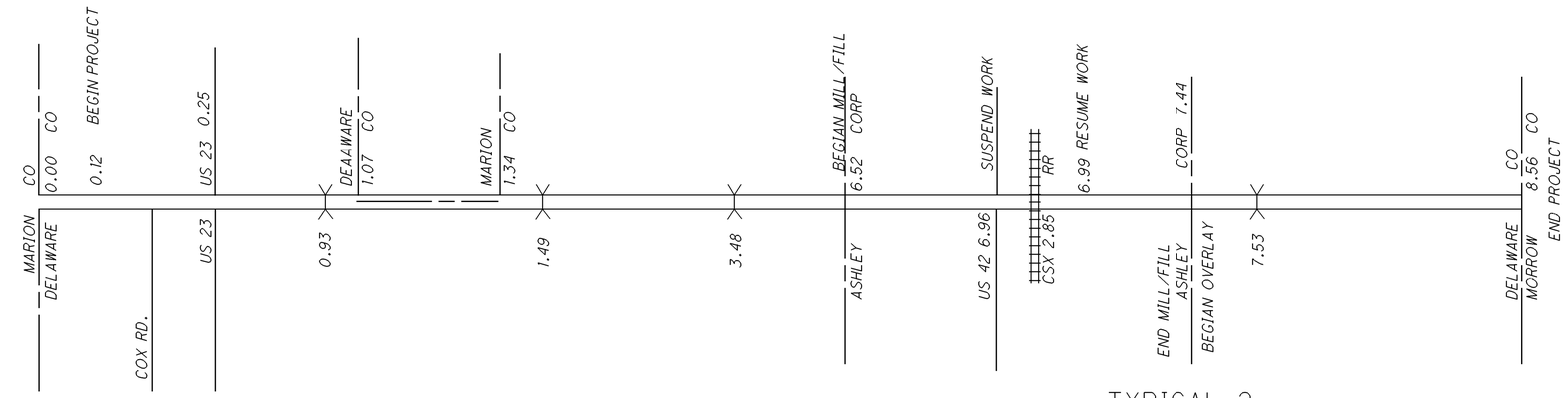
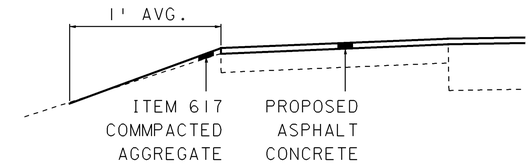
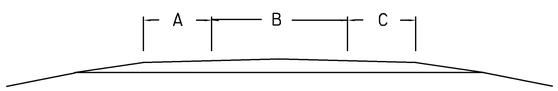


SHOULDER DETAIL



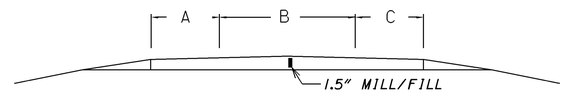
DEL-SR-229

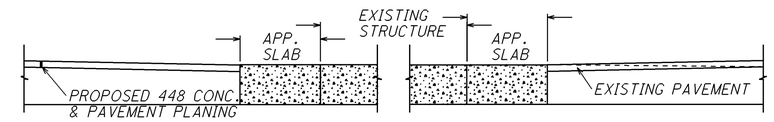
TYPICAL 1



* NOTE: STRUCTURE LABELS DIFFER FROM SLM'S-USE SLM'S IN SCHEMATIC ABOVE.

TYPICAL 2
SLM 6.52-7.44





BUTT JOINT STRUCTURES DEL-229-0081,0136,0336,0745

LOCATION											SURFACE COURSE							REMARKS
											254	407	442		448		617	
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	LENGTH		TYPICAL	PAVEMENT WIDTH			PAVEMENT AREA	PAVEMENT PLANING ASPHALT CONCRETE (1.5")	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5MM,TYPE A (448)		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22		COMPACTED AGGREGATE AVG. 2" DEEP 1' WIDE	
								A	B	C			0.075 GAL PER SY	AVG DEPTH		AVG DEPTH			
			SLM	SLM	MI	FT		FT	FT	FT	SY	SY	GAL	IN	CY	IN	CY	CY	
1	DEL	229	0.12	0.20	0.08	422	1		23.0		1,079	192	81			1.5	45	5	BEGIN PROJECT / BUTT JOINT
1	DEL	229	0.20	0.25	0.05	264	1		23.0		675	192	51	1.5	1				BUTT JOINT AT INTERSECTION OF SR-229 AND US-23
1	DEL	229	0.25	0.28															OMIT INTERSECTION
1	DEL	229	0.28	0.33	0.05	264	1	2.0	20.0	2.0	704	200	53	1.5	1				BUTT JOINT
1	DEL	229	0.33	0.93	0.60	3,168	1	2.0	20.0	2.0	8,448	200	634			1.5	352	39	BUTT JOINT AT BEGIN STRUCTURE
1	DEL	229	0.93	0.98		278			28.0		865								FOR STRUCTURE DEL-229-0081 (2102730) *SEE NOTE
1	DEL	229	0.98	1.49	0.51	2,693	1	2.0	20.0	20.0	12,566	400	942			1.5	524	33	BUTT JOINT AT END AND BEGIN STRUCTURE
1	DEL	229	1.49	1.51		128			36.5		519								FOR STRUCTURE DEL-229-0136 (2102765) *SEE NOTE
1	DEL	229	1.51	3.48	1.97	10,402	1	2.0	20.0	2.0	27,738	400	2080			1.5	1156	128	BUTT JOINT AT END AND BEGIN STRUCTURE
1	DEL	229	3.48	3.51		174			28.0		541								FOR STRUCTURE DEL-229-0336 (2102854) *SEE NOTE
1	DEL	229	3.51	6.52	3.01	15,893	1	2.0	20.0	2.0	42,381	400	3179			1.5	1766	196	BUTT JOINT AT END STRUCTURE AND CORP LINE
1	DEL	229	6.52	6.96	0.44	2,323	2		24.0		6,195	6,195	465			1.5	258		ASHLEY CORP. START PAVEMENT PLANING
1	DEL	229	6.96	6.99															US-42 SUSPEND WORK & SKIP CSX RR
1	DEL	229	6.99	7.44	0.45	2,376	2		24.0		6,336	6,336	475			1.5	264		RESUME WORK ASHLEY CORP.STOP PAVEMENT PLANING
1	DEL	229	7.44	7.53	0.09	475	1	2.0	20.0	2.0	1,267	400	95			1.5	53	6	BUTT JOINT AT BEGIN OVERLAY AND BEGIN STRUCTURE
1	DEL	229	7.53	7.54		106			32.5		383								FOR STRUCTURE DEL-229-0745 (2102889) *SEE NOTE
1	DEL	229	7.54	8.56	1.02	5,386	1	2.0	20.0	2.0	14,362	400	1077			1.5	598	66	BUTT JOINT AT END OF STRUCTURE AND END PROJECT
											700		53			1.5	29		ASPHALT DRIVES
																		48	87 GRAVEL DRIVES
											504		38			1.5	21		INTERSECTIONS (9 County & Township ROADS)
TOTALS CARRIED TO GENERAL SUMMARY												15,315	9,223		2		5,066	521	

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PAVEMENT SUBSUMMARY AND DETAILS

DEL-229-0.12

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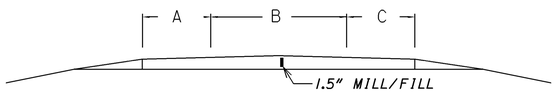
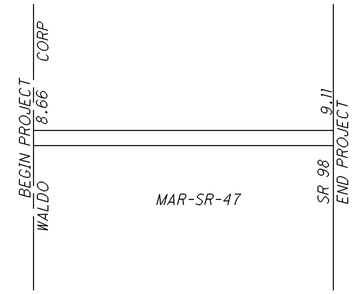
TYPICAL 2
SLM 8.66-9.11





LOCATION											SURFACE COURSE						REMARKS
												254	407	448		617	
LOCATION	COUNTY	ROUTE	START LOG POINT	END LOG POINT	LENGTH		TYPICAL	PAVEMENT WIDTH			PAVEMENT AREA	PAVEMENT PLANING ASPHALT CONCRETE (0-1.5")	TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22		COMPACTED AGGREGATE AVG. 2" DEEP 1' WIDE	
								A	B	C			0.075 GAL PER SY	AVG DEPTH			
			SLM	SLM	MI	FT		FT	FT	FT	SY	SY	GAL	IN	CY	CY	
2	MAR	47	8.66	9.11	0.45	2,376	2		40.0		10,560	10,560	792	1.5	440	29	BEGIN PLANING & END PLANING
TOTALS CARRIED TO GENERAL SUMMARY												10,560	792		440	29	

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PAVEMENT SUBSUMMARY AND DETAILS

DEL-229-0.12

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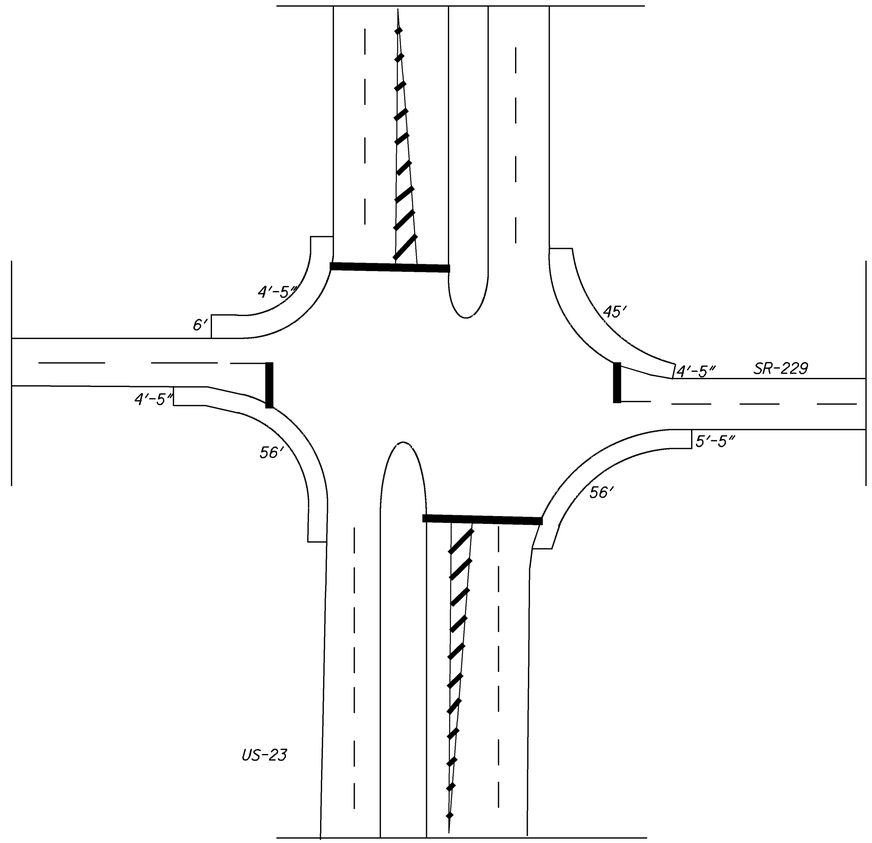

LOCATION	COUNTY	ROUTE	LENGTH		SIDE	SHOULDER WIDTH	PAVEMENT AREA	203 EXCAVATION	301 ASPHALT CONCRETE BASE COURSE, PG64-22		304 AGGREGATE BASE		407 TACK COAT	442 ASPHALT CONCRETE SURFACE COURSE, 12.MM, TYPE A (448)		617 COMPATED AGGREGATE	REMARKS
									AVG DEPTH		AVG DEPTH		0.075 GAL PER SY	AVG DEPTH			
			MI	FT		FT	SY	CY	IN	CY	IN	CY	GAL	IN	CY	CY	
NORTHEAST CORNER OF SR-229 AND US 23	DEL	229		45	L	4.5	23	8	6	4	6	4	2	1.5	1	1	
NORTHWEST CORNER OF SR-229 AND US 23	DEL	229		45	L	6	30	10	6	5	6	5	2	1.5	2	1	
SOUTHEAST CORNER OF SR-229 AND US 23	DEL	229		56	R	5.5	34	11	6	6	6	6	3	1.5	2	1	
SOUTHWEST CORNER OF SR-229 AND US 23	DEL	229		56	R	4.5	28	9	6	5	6	5	2	1.5	2	1	
TOTALS CARRIED TO GENERAL SUMMARY								38		20		20	9		7	4	

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EXTRA AREA PAVEMENT SUBSUMMARY

DEL-229-0.12

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PART	COUNTY	ROUTE	LOG BEG	LOG END	LENGTH		SIDE	DESCRIPTION	LONG LINE MARKINGS 642					AUXILIARY MARKINGS 644												
									CENTER LINE		EDGE LINE		LANE LINE	CENTER LINE		TRANSVERSE/DIAGONAL LINE		CHANNELIZING LINE	STOP LINE	CROSS WALK LINE	LANE ARROWS					72" SCHOOL SYMBOL
										EQUIV SOLID LINE	WHITE	YELLOW		YELLOW	SOLID	WHITE	YELLOW				LT	LT/ THRU	THRU	RT/ THRU	RT	
			SLM	SLM	MI	FT			MI	MI	MI	MI	MI	MI	MI	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
1	DEL	SR 229	0.12	8.56	8.44	44,563		MAIN LINE	8.44	8.77		16.88														
1	DEL	SR 229	0.25				R	STOP BAR											12							
1	DEL	SR 229	0.28				L	STOP BAR											11							
1	DEL	SR 229	6.94				R	STOP BAR											12							
1	DEL	SR 229	6.96					CROSS WALK												77						
1	DEL	SR 229	7.01					CROSS WALK												52						
1	DEL	SR 229	7.02					TRANSVERSE LINE																		
1	DEL	SR 229	7.07				R	STOP BAR											24							
1	DEL	SR 229	7.08					CROSS WALK												47						
2	MAR	SR-47	8.66	9.11	0.45	2,376		MAIN LINE	0.45																	
			9.05					SCHOOL SYMBOL																		1
TOTALS CARRIED TO GENERAL SUMMARY									8.89	8.77	16.88	16.88							59	176						1

CALCULATED

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PAVEMENT MARKING SUBSUMMARY

DEL-229-0.12

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DETAIL		DETAIL	
GAP	TYPICAL CENTER LINE	7	ONE LANE BRIDGE
1	THRU APPROACH	8	STOP APPROACH
2	HORIZONTAL CURVE	9	TWO WAY LEFT TURN LANE
3	HORIZONTAL CURVE ALTERNATE	10	APPROACH W/LEFT TURN LANE
5	4 LANE UNIDIVIDED TO 2 LANE TRANSITION	11	HORIZONTAL CURVE W/RADIUS LESS THAN 1250'
6	MULTILANE DIVIDED-CONTROLLED ACCESS	12	HORIZONTAL CURVE W/RADIUS LESS THAN 820'

LOCATION							REFLECTOR TYPE													TOTAL		REMARKS
							ONE WAY				TWO WAY									621	621	
			START LOG POINT	END LOG POINT	SIDE	DETAIL	RIGHT EDGE LINE		LANE LINE	LEFT EDGE LINE	RIGHT EDGE LINE	RIGHT EDGE LINE	CHANNEL-IZING LINE		LANE LINE	LEFT EDGE LINE	CENTER LINE			RAISED PAVEMENT MARKER REMOVED	RPM	
			SLM	SLM			40	80	120	80	40	80	40	80	80	80	20	40	80	EACH	EACH	
1	DEL	229	0.12	0.25	R	GAP,8	11	5											9		25	
1	DEL	229	0.28	0.40		GAP,8	11	5											8		24	
1	DEL	229	0.40	0.43	LT	2													8		8	
1	DEL	229	0.43	0.77		GAP													23		23	
1	DEL	229	0.77	0.80	LT	2													8		8	
1	DEL	229	0.80	0.84		GAP													3		3	
1	DEL	229	0.84	0.86	RT	2													8		8	
1	DEL	229	0.86	1.32		GAP													30		30	
1	DEL	229	1.32	1.36	RT	2													8		8	
1	DEL	229	1.36	3.77		GAP													159		159	
1	DEL	229	3.77	3.81	RT	2													8		8	
1	DEL	229	3.81	4.10		GAP													19		19	
1	DEL	229	4.10	4.13	LT	2													8		8	
1	DEL	229	4.13	6.52		GAP													158		158	
1	DEL	229	7.44	8.56		GAP													78		78	
1	DEL	229	0.12	8.56																208		BEGIN TO END LOCATION 1
TOTALS CARRIED TO GENERAL SUMMARY																				208	567	

CALCULATED

CHECKED

RASISED PAVEMENT MARKERS SUBSUMMARY

DEL-229-0.12

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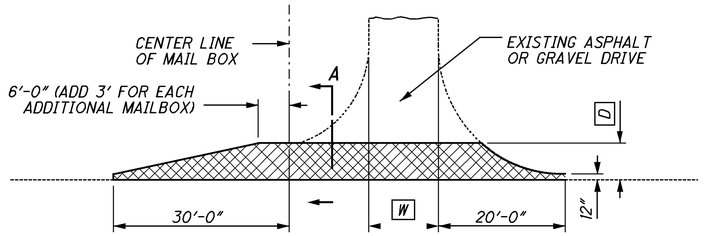
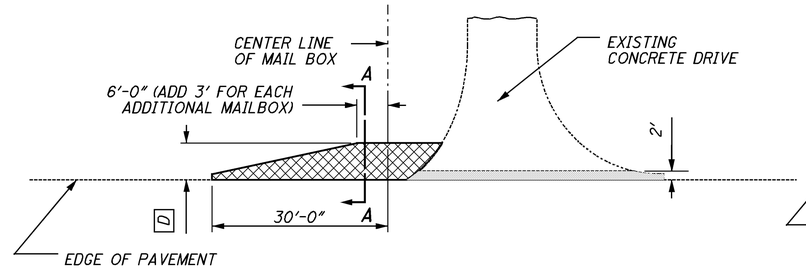


TYPICAL APPROACH #1
COMBINED DRIVEWAY & MAIL BOX APPROACH

MAIL BOX POSITIONED PAST DRIVE SHOWN. MIRROR FOR MAILBOX PRECEDING DRIVE.

THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION D SHALL NOT EXCEED 6'.

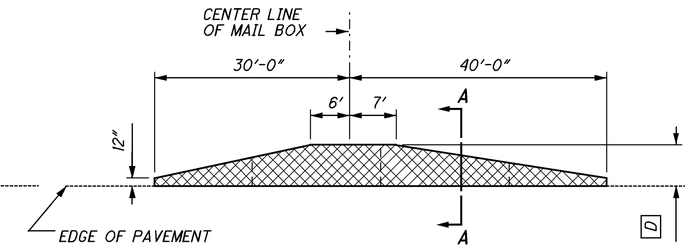
W = WIDTH OF EXISTING DRIVEWAY.



TYPICAL APPROACH #2
COMBINED DRIVEWAY & MAIL BOX APPROACH

MAIL BOX POSITIONED PAST DRIVE SHOWN. MIRROR FOR MAILBOX PRECEDING DRIVE.

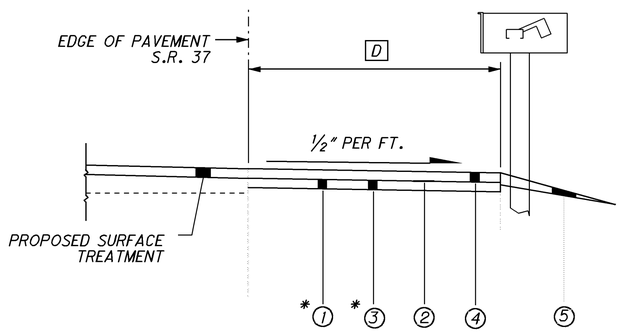
THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION D SHALL NOT EXCEED 6'.



TYPICAL APPROACH #3
TYPICAL MAIL BOX APPROACH

THE EXISTING MAIL BOX POSITION SHALL REMAIN. DIMENSION D SHALL NOT EXCEED 6'.

*FOR TYPICAL MAIL BOX APPROACH AND OTHER ADDITIONAL INFORMATION SEE STD. DWG. BP 4.1 (07/16/04)



SECTION A-A
MAILBOX APPROACH DETAIL

* OMIT EXCAVATION AND INTERMEDIATE COURSE ON EXISTING ASPHALT APPROACHES.

LEGEND:

1. ITEM 203 - EXCAVATION
2. ITEM 407 - TACK COAT @ 0.075 GAL/SQ YD
3. ITEM 448 - (1.5") ASPHALT CONCRETE INTERM. COURSE, TYPE 1, PG64-22
4. ITEM 448 - (1.5") ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
5. ITEM 617 - (1 1/2" AVG) COMPACTED AGGREGATE

SLM	SLM	MAILBOXES	203 EXCAVATION	204 SUBGRADE COMPACTION	407 TACK COAT 0.075 GAL. PER SQ. YD.	448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22 AS INTERMEDIATE COURSE 1.5"DEPTH	448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG64-22 1.5"DEPTH	REMARK
			CU. YD.	SQ. YD.	GAL.	CU. YD.	CU. YD.	
0.12	8.56	2			5		2	SINGLE LIFT REQUIRED. (ESTIMATED QUANTITIES)
0.12	8.56	80	75	1,800	135	75	75	TWO LIFTS REQUIRED. (ESTIMATED QUANTITIES)
TOTALS CARRIED TO GENERAL SUMMARY			75	1,800	140	152		

CALCULATED RDK
CHECKED

MAILBOX TYPICAL SECTION

DEL-229-0.12

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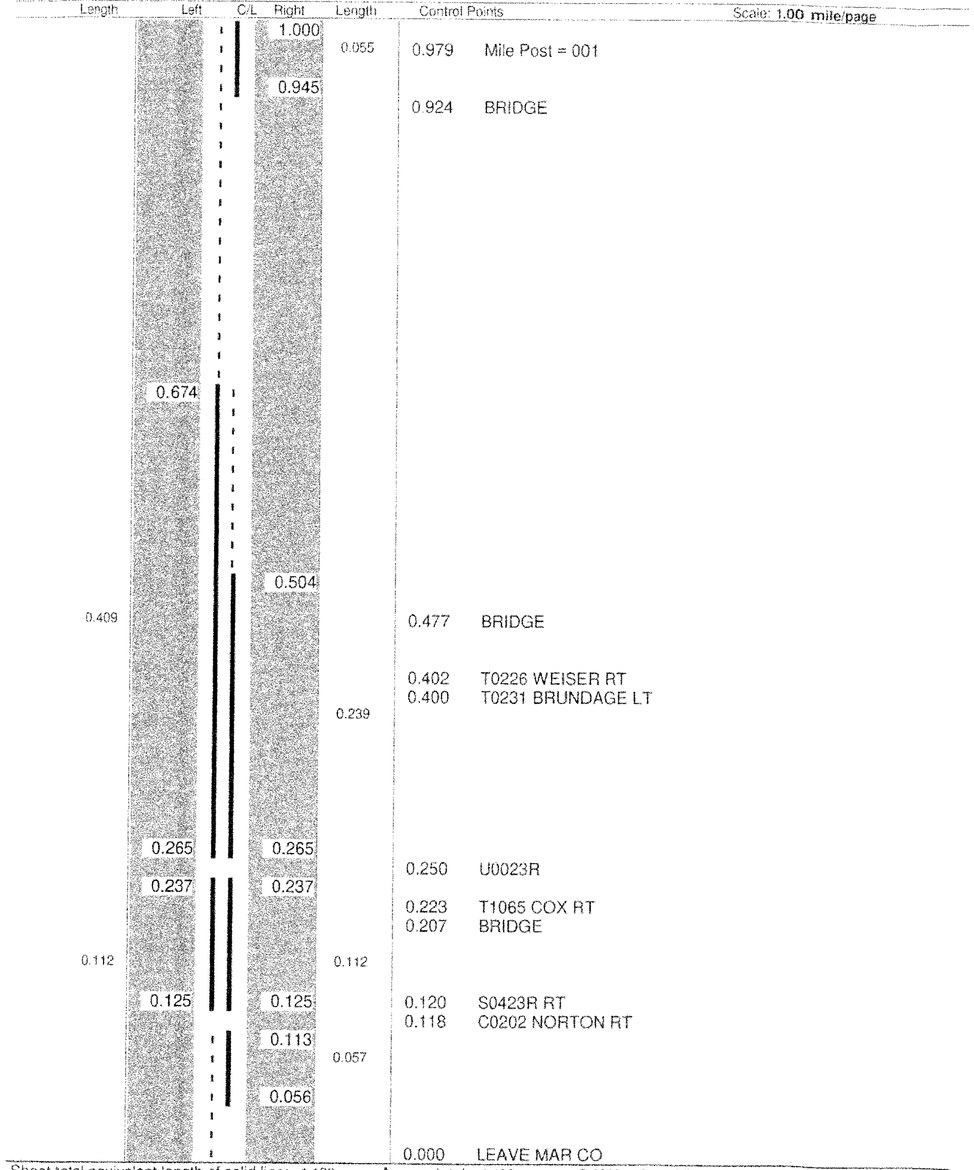
ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 1.136 Accum. total: 1.136

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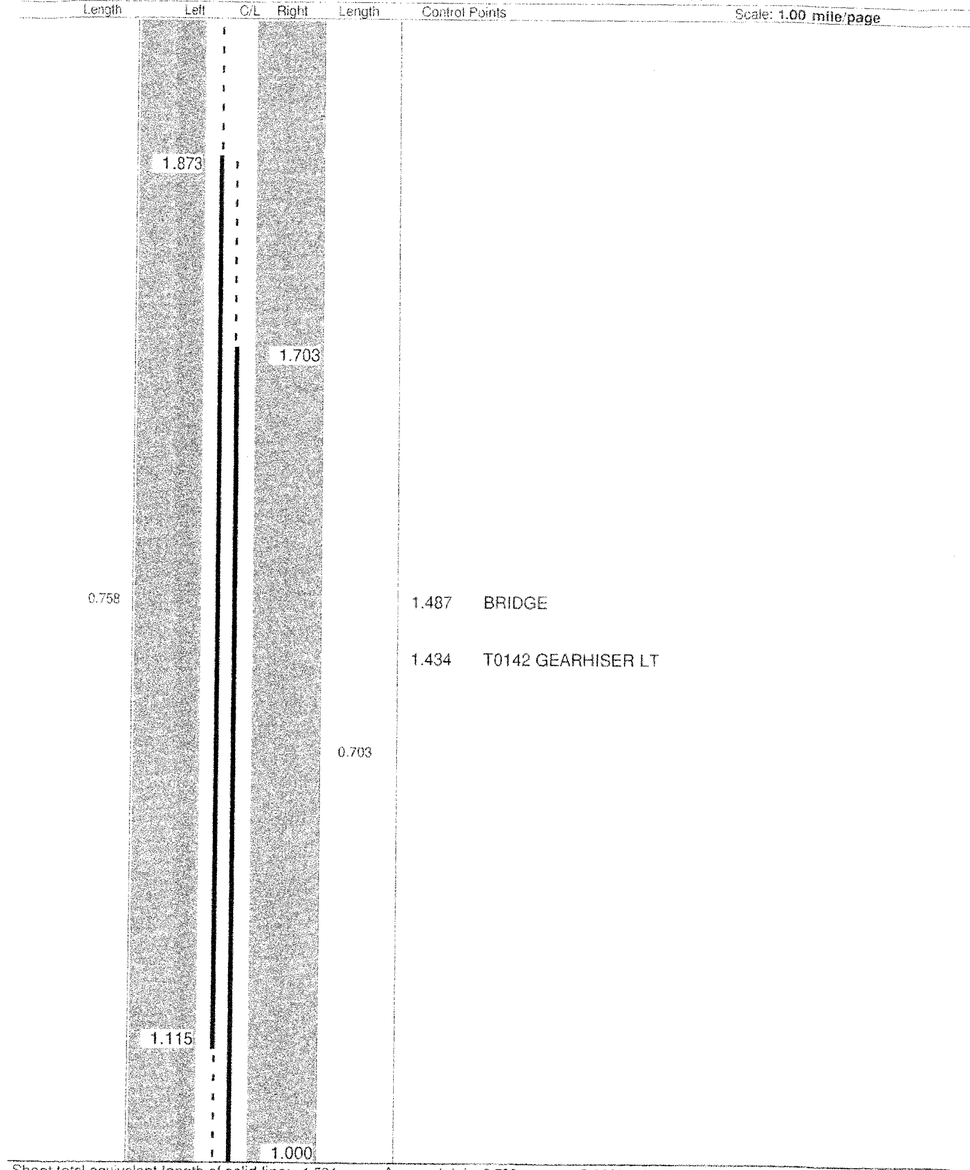
ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Scale: 1.00 mile/page



Sheet total equivalent length of solid line: 1.564 Accum. total: 2.700

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NO PASSING ZONE LOG

DEL-229-0.12

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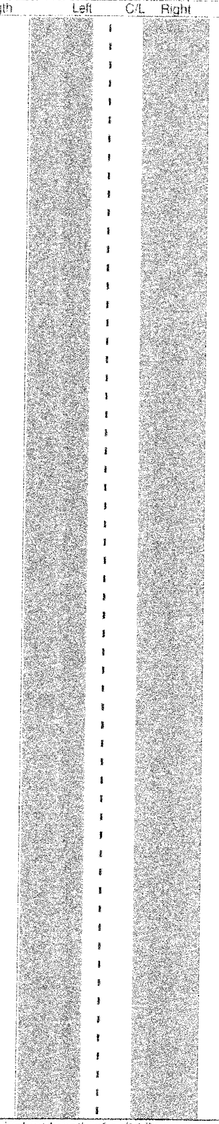
ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Length | Left | C/L | Right | Length | Control Points | Scale: 1.00 mile/page



2.170 NATURAL RESOURCES RT

2.134 T0288 BENEDICT LT
2.131 Mile Post = 002

Sheet total equivalent length of solid line: 0.250 Accum. total: 2.950

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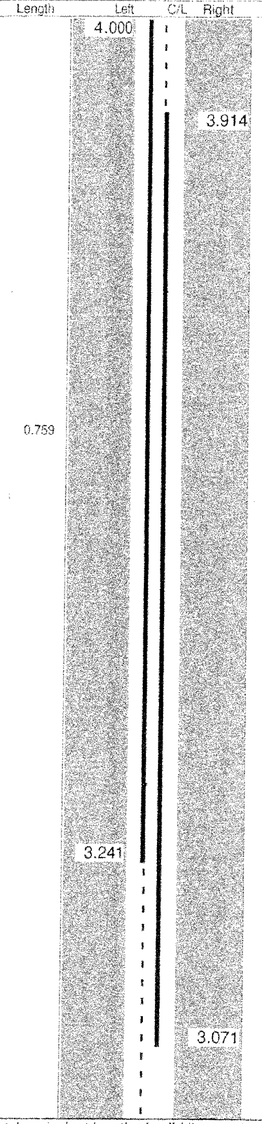
ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Length | Left | C/L | Right | Length | Control Points | Scale: 1.00 mile/page



3.943 C0220 HORSESHOE RT
3.943 C0250 PETERS LT

3.473 BRIDGE

3.119 Mile Post = 003

Sheet total equivalent length of solid line: 1.684 Accum. total: 4.634

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NO PASSING ZONE LOG

DEL-229-0.12

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ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Scale: 1.00 mile/page

Length	Left	C/L	Right	Length	Control Points	
	4.760					
0.095						
	4.665					
			4.565			
				0.095	4.535	T0237 STRINE
			4.470			
	4.365					
0.128						
	4.237					
			4.195			
				0.128	4.104	Mile Post = 004
	4.084					
			4.067			
0.084						
	4.000					

Sheet total equivalent length of solid line: 0.776 Accum. total: 5.410

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ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540 Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Scale: 1.00 mile/page

Length	Left	C/L	Right	Length	Control Points	
	7.000		7.000			
0.048	6.952		6.952	0.048		
					6.957	RAILROAD
	6.935		6.935		6.943	U0042R
0.427						
				0.489		
					6.508	T0239 WESTFIELD LT
	6.508				6.508	ENTER ASHLEY
			6.446			
					6.124	Mile Post = 006

Sheet total equivalent length of solid line: 1.139 Accum. total: 6.799

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CHECKED

NO PASSING ZONE LOG

DEL-229-0.12

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ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540
Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Length	Left	C/L	Right	Length	Control Points	
	8.000		8.000			
0.113						
	7.887			0.283		
			7.717			
	7.607					
			7.545		7.545	ASHLEY PARK RT
					7.513	BRIDGE
					7.421	C0243 ASHLEY
					7.421	LEAVE ASHLEY
0.607				0.545		
	7.000		7.000			

Scale: 1.00 mile/page

Sheet total equivalent length of solid line: 1.634 Accum. total: 8.433

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ODOT Dist 6 - Delaware Co - FINAL
No Passing Zone Log (DEL)

Route: 0229R
Length: 8.540
Direction: East
From: 0.000 *LEAVE MAR CO*
To: 8.540 *ENTER MRW CO*

Length	Left	C/L	Right	Length	Control Points	
					8.540	ENTER MRW CO
	8.223					
0.223						
			8.053		8.068	Mile Post = 008
	8.000		8.000	0.053	8.023	T0245 PIPER RT

Scale: 1.00 mile/page

Sheet total equivalent length of solid line: 0.398 Accum. total: 8.831

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CALCULATED
CHECKED

NO PASSING ZONE LOG

DEL-229-0.12

ODOT Dist 6 - Marion Co - FINAL
No Passing Zone Log (MAR)

Route: 0047R
Length: 8.496 Direction: East
From: 0.640 S0004RMARION MARYSVILLE
To: 9.136 S0098R

Scale: 1.00 mile/page

Length	Left	C/L	Right	Length	Control Points		
	9.000		9.000				
0.624				0.625			
					8.587		↑ 35mph
					8.586	ENTER WALDO	
	8.376		8.375				
			8.363	0.057	8.369	S0229RWALDO DELAWARE RT	
			8.306				

Sheet total equivalent length of solid line: 1.397 Accum. total: 5.041

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ODOT Dist 6 - Marion Co - FINAL
No Passing Zone Log (MAR)

Route: 0047R
Length: 8.496 Direction: East
From: 0.640 S0004RMARION MARYSVILLE
To: 9.136 S0098R

Scale: 1.00 mile/page

Length	Left	C/L	Right	Length	Control Points	
	9.125		9.125		9.136	S0098R RT
0.125				0.125		
	9.000		9.000			

Sheet total equivalent length of solid line: 0.250 Accum. total: 5.291

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CALCULATED
CHECKED

NO PASSING ZONE LOG

DEL-229-0.12

RURAL/MAJOR	RURAL/MAJOR	RURAL/MAJOR	RURAL/MAJOR						
DEL-229-0093 SFN# (2102730)	DEL-229-0136 SFN# (2102765)	DEL-229-0336 SFN# (2102854)	DEL-229-0745 SFN# (2102889)	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SHEET NO.
500	500	250		519	11100	1,250	SQ FT	PATCHING CONCRETE STRUCTURE	
865	519	542	383	512	10400	2309	SQ YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS	

CALCULATED

CHECKED

STRUCTURE ESTIMATED QUANTITIES

DEL-229-0.12

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