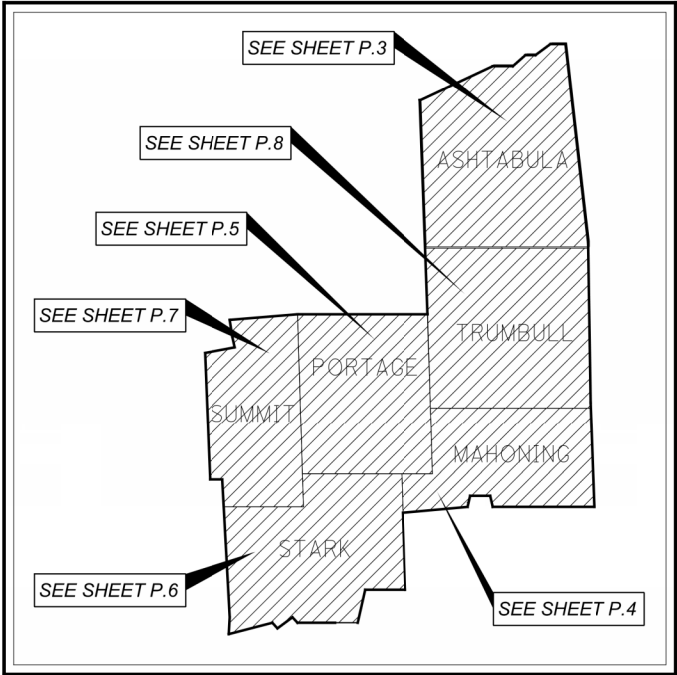


D04 - CS FY2023
230031 PID - 116078
Dist 4 1/12/2023



LOCATION MAPS

LATITUDE: 41°00'57" LONGITUDE: 81°29'30"



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

DESIGN DESIGNATION

NHS PROJECT YES/NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

N/A

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D04-CS-FY2023

VARIOUS CITIES, VILLAGES, AND TOWNSHIPS
ASHTABULA, MAHONING, PORTAGE, STARK,
SUMMIT, AND TRUMBULL COUNTIES

INDEX OF SHEETS:

TITLE SHEET	P.1
LOCATION LIST	P.2
LOCATION MAPS	P.3-8
GENERAL NOTES	P.9
MAINTENANCE OF TRAFFIC	P.10-P.11
GENERAL SUMMARY	P.12
CALCULATION SHEETS	P.13-19
ATB CALCULATIONS	P.13
MAH CALCULATIONS	P.14
POR CALCULATIONS	P.15-16
STA CALCULATIONS	P.17
SUM CALCULATIONS	P.18
TRU CALCULATIONS	P.19

FEDERAL PROJECT NUMBER

NON-FEDERAL PROJECT

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CRACK SEALING VARIOUS ROUTES THROUGHOUT
DISTRICT 4.

EARTH DISTURBED AREAS

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

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,
CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL
SPECIFICATION 800 VERSION INDICATED ON 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.

DISTRICT DEPUTY DIRECTOR

[Signature]

DIRECTOR, DEPARTMENT OF TRANSPORTATION

[Signature]

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, CAPITAL PLANNING
2088 S. ARLINGTON ROAD
AKRON, OH 44306

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
MT-95.30	7/19/19	TC-41.20	10/18/13			800-2019 SEE PROPOSAL	
MT-95.31	7/19/19	TC-42.20	10/18/13			821 4/20/12	
MT-95.32	4/19/19	TC-52.10	10/18/13			921 4/20/12	
MT-95.60	4/19/19	TC-52.20	1/15/21				
MT-95.61	4/19/19	TC-71.10	7/16/21				
MT-97.10	4/19/19	TC-72.20	7/20/18				
MT-97.12	1/20/17						
MT-97.20	4/19/19						
MT-98.10	1/17/20						
MT-98.11	1/17/20						
MT-98.20	4/19/19						
MT-98.22	1/17/20						
MT-98.29	1/17/20						
MT-99.20	4/19/19						
MT-101.60	1/17/20						
MT-105.10	1/17/20						

ENGINEER'S SEAL

STATE OF OHIO

ELIZABETH
M.
STOBER
E-62380

REGISTERED
PROFESSIONAL ENGINEER

Elizabeth M. Stober
Date: 2022.10.06
11:43:00-04'00'

TITLE SHEET

DESIGN AGENCY



DESIGNER

ROF

REVIEWER

CLG 08-17-22

PROJECT ID

116078

SHEET TOTAL

P.1 19

Contract Proposal available @
www.contacts.dot.state.oh.us

202024F-CS-000

MODEL: Sheet PAPER: 34x22 (in.) DATE: 10/5/2022 TIME: 3:03:30 PM USER: cpalan
pww\ohiodot-pw\benley.com\ohiodot-pw-02\Documents\01 Active Projects\District 04_D04-116078400-Engineering\Roadway\Sheets\116078_GT001.dgn

MODEL: Sheet PAPERSIZE: 34x22 (In.) DATE: 10/5/2022 TIME: 11:22:11 AM USER: rfrno
 http://ohiodot-pw-bentley.com:chiodot-pw-02/Documents/01 Active Projects/District 04_D04116078/400-Engineering/Roadway/Sheets/116078_GB001.dgn

CRACK SEAL LOCATIONS												LOCATION LIST
Number	County	Route	From SLM	To SLM	Comments	Number	County	Route	From SLM	To SLM	Comments	
1	ATB	531	2.00	7.50	GENEVA ON THE LAKE LIMIT TO WALNUT BLVD (ASHTABULA CITY LIMIT)	21	POR	43	0.00	9.89		
2	ATB	84	0.00	2.50	GENEVA CITY LIMIT	22	POR	43	13.22	15.59		
3	ATB	84	4.00	7.80	GENEVA CITY LIMIT TO WEST OF DEPOT RD	23	POR	59	3.32	6.83		
4	ATB	534	19.30	20.50	IR 90 TO GENEVA CITY LIMIT	24	POR	76	9.73	21.20		
5	ATB	6	0.00	20.00	EAST OF STANHOPE KELLOGGSVILLE RD	25	POR	82	9.14	12.86		
6	ATB	45	3.00	10.70	ORWELL VILLAGE LIMIT TO ROCK CREEK VILLAGE LIMIT	26	POR	224	0.00	12.99		
7	ATB	11	0.00	13.30	SOUTH OF SR 307 TO US 322/US 6. INCLUDING RAMPS, REST AREAA, AND CROSSOVERS	27	POR	224	13.00	18.67		
8	ATB	322	17.40	22.40	SR 193 TO SR 7	28	POR	225	5.24	15.87		
9	MAH	224	7.60	11.77	CANFIELD	29	POR	303	4.98	8.73		
10	MAH	224	14.00	20.00	CANFIELD TO POLAND	30	STA	800	0.00	8.68	TUSC COUNTY LINE TO MILL ST	
11	MAH	224	20.78	25.33	POLAND TO PA LINE	31	STA	212	2.35	5.50	WEST OF SHELTER RD TO TUSC COUNTY LINE	
12	MAH	45	11.78	14.15		32	STA	44	14.10	23.21	RENO DR TO PORTAGE COUNTY LINE	
13	MAH	46	16.35	16.65		33	STA	93	19.24	20.64	NORTH OF CANAL FULTON TO SUMMIT COUNTY LINE	
14	MAH	170	0.00	0.80		34	STA	241	14.58	17.90	SR 687 TO COUNTY LINE	
15	MAH	617	3.68	4.73		35	SUM	76	12.10	16.50	Both Directions	
16	MAH	630	0.60	2.80		36	SUM	271	10.92	15.12	Both Directions	
17	MAH	626	0.00	3.50	SR 165 TO SR 7	37	TRU	11	9.96	18.95		
18	POR	14	7.15	10.55		38	TRU	193	0.00	6.80		
19	POR	14	11.25	18.19		39	TRU	193 RAMPS	1.45	1.70	All 4 ramps at SR 193 & IR 80	
20	POR	14	25.41	28.77								

DESIGN AGENCY



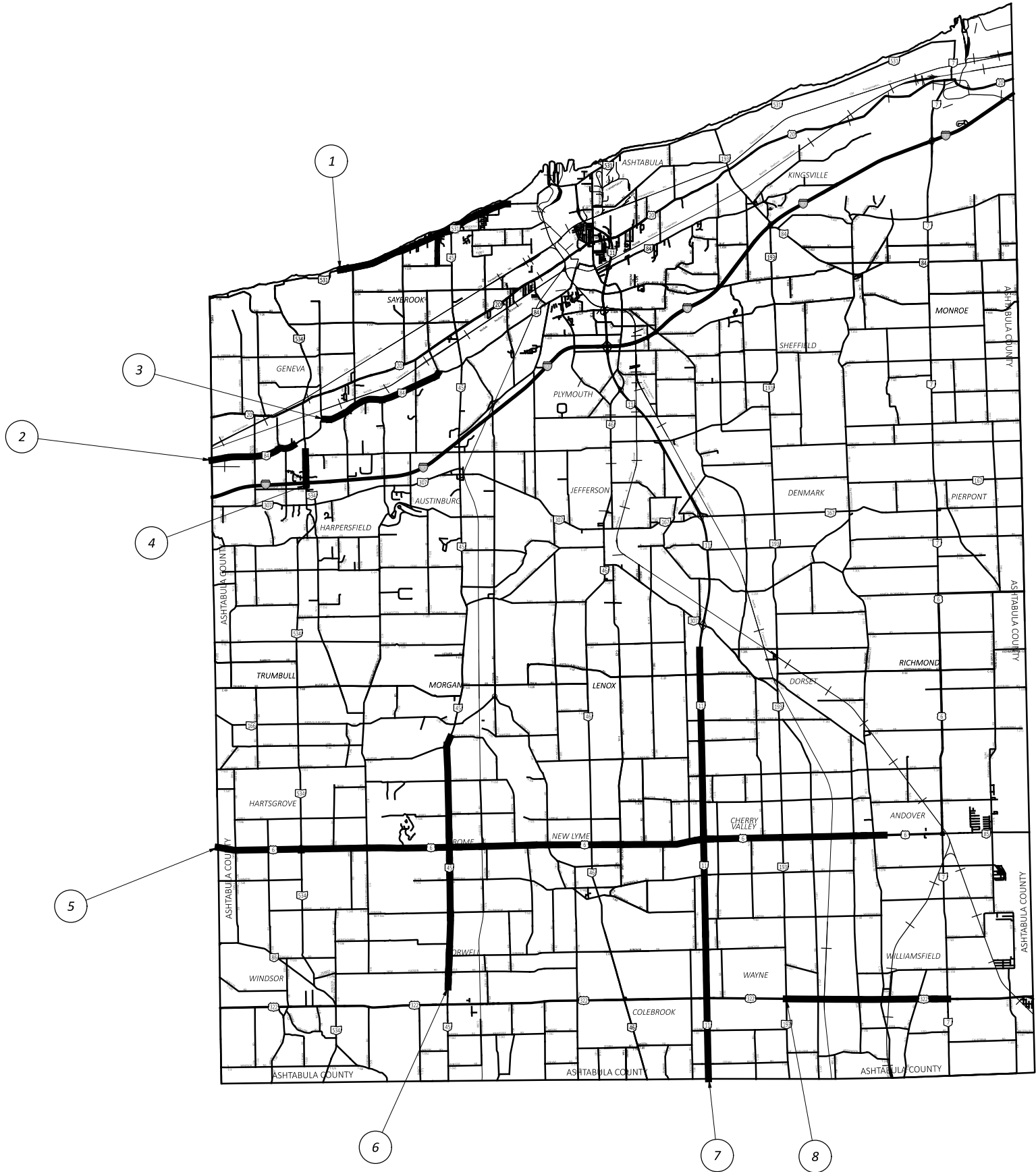
DESIGNER
ROF

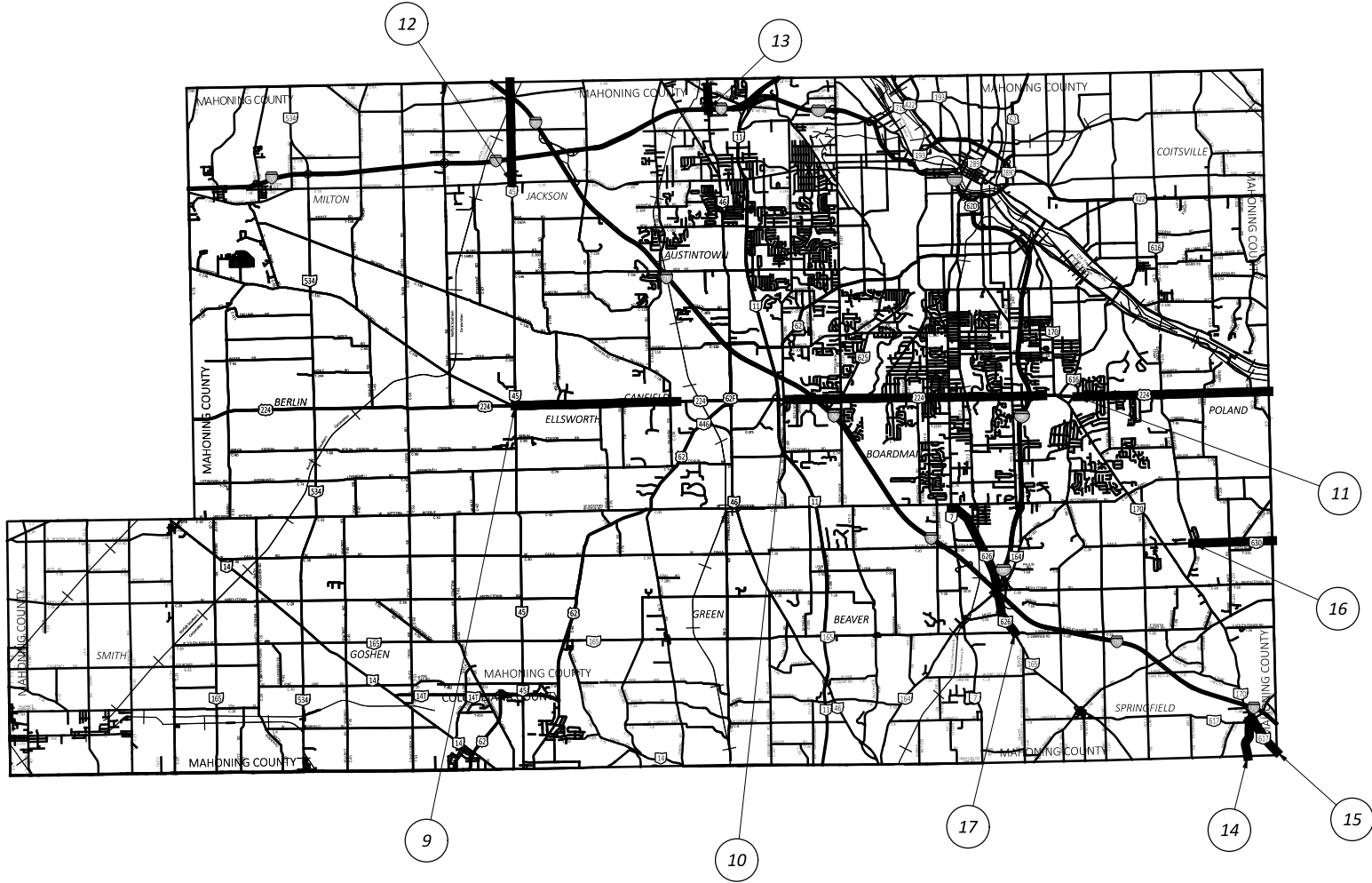
REVIEWER
CLG 08-17-22

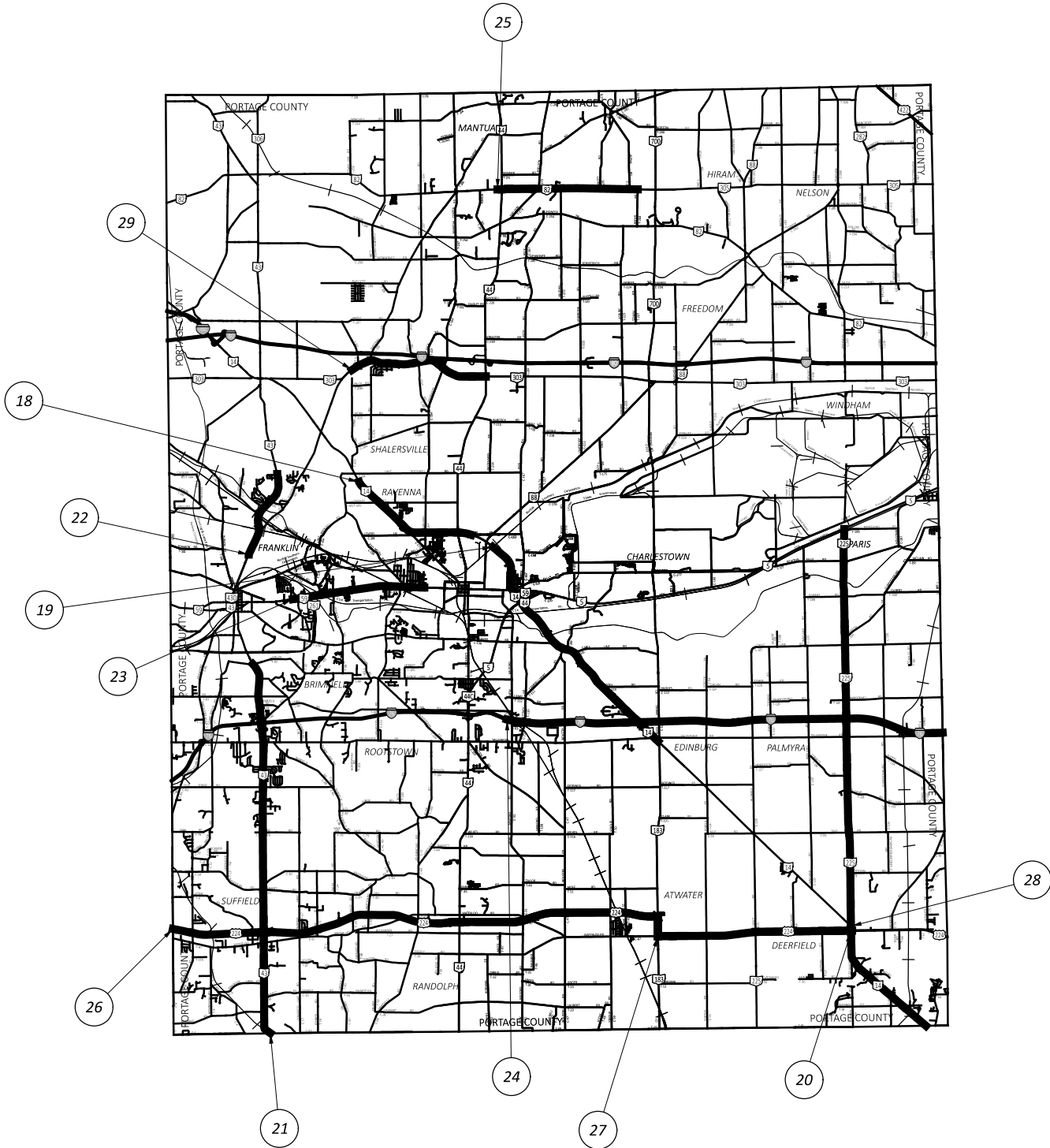
PROJECT ID
116078

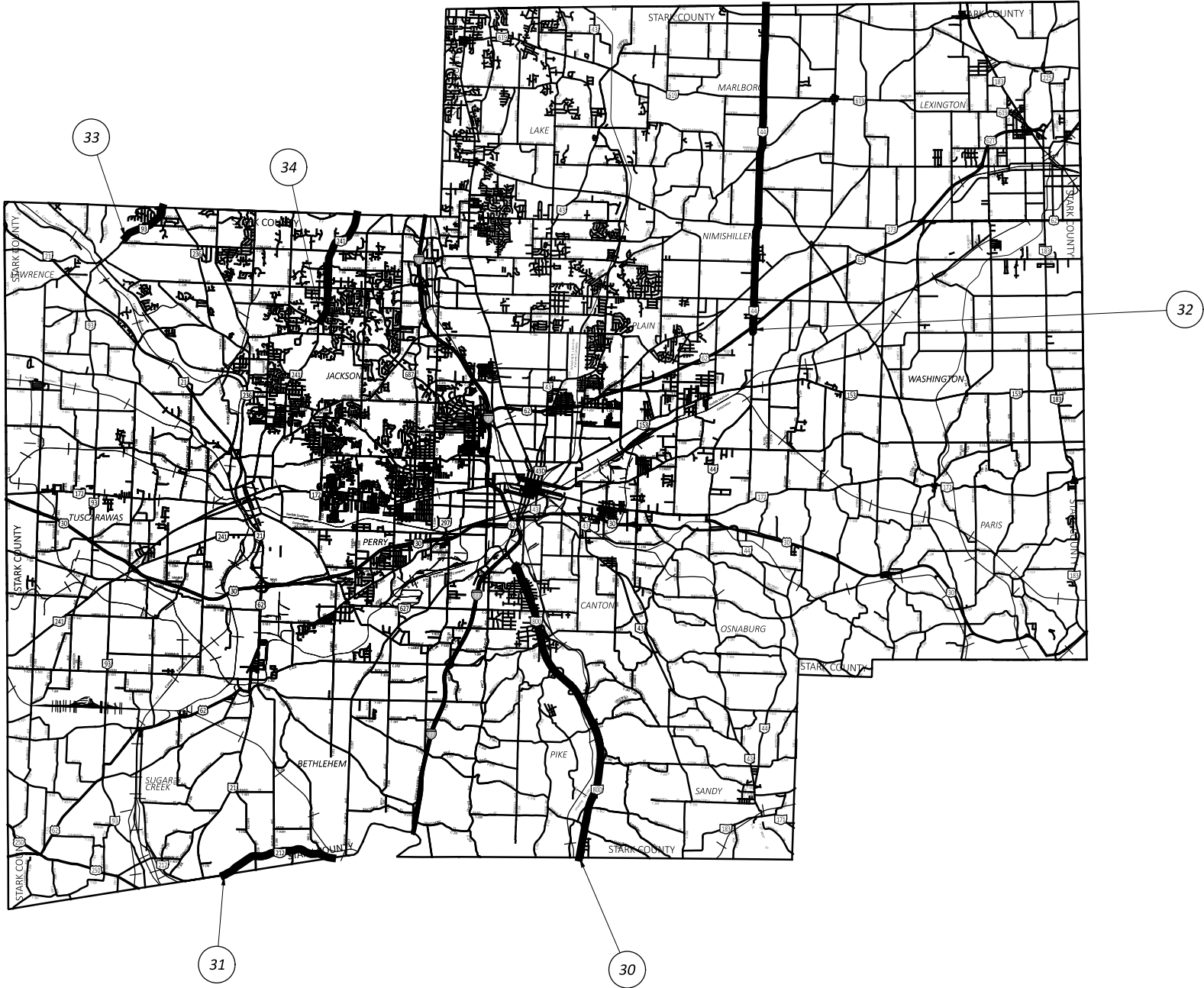
SHEET
P.2

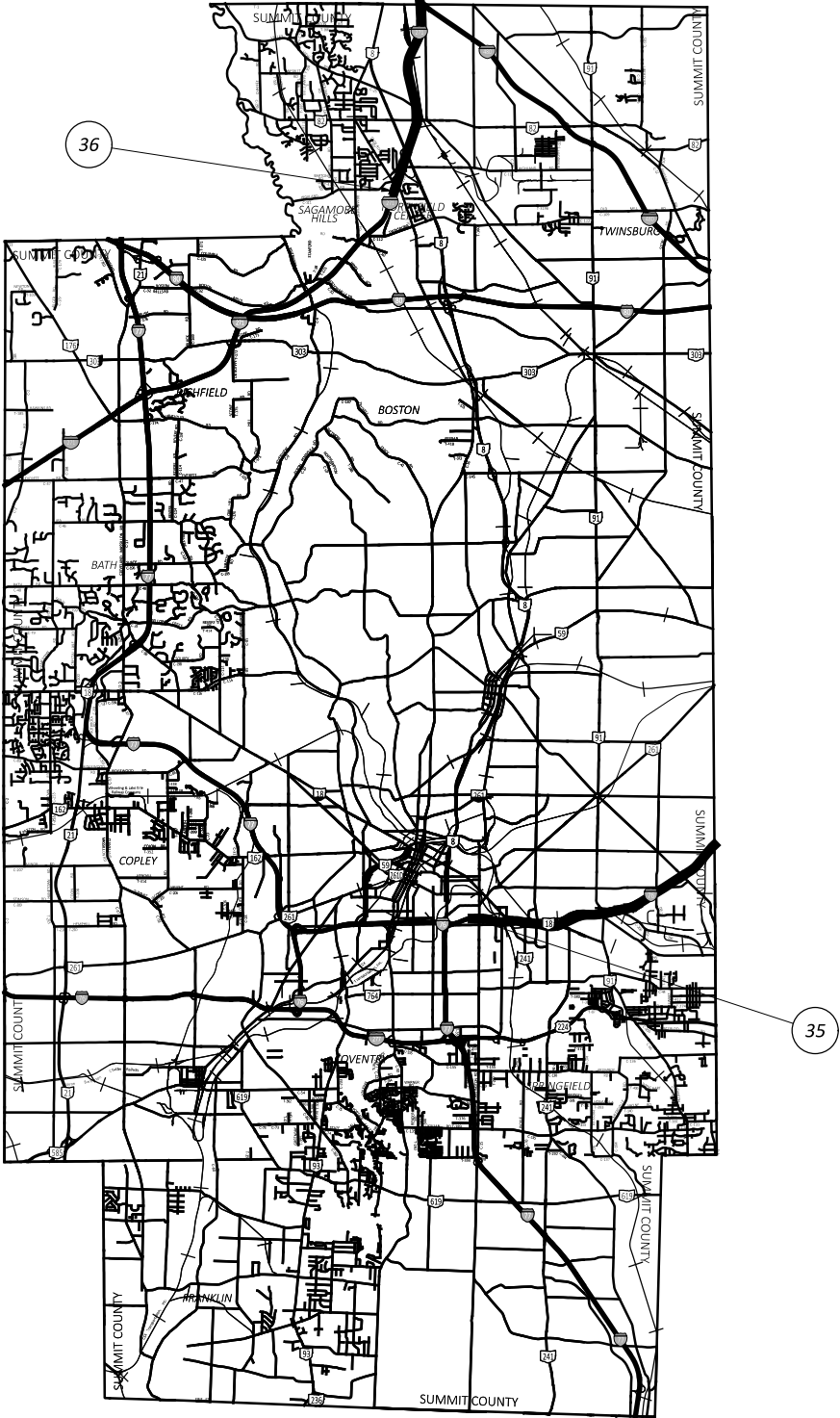
TOTAL
19

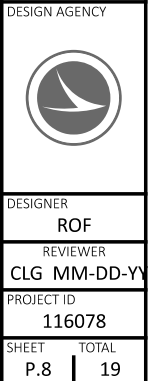












PAVEMENT MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER TO REPLACE PAVEMENT MARKINGS OBSCURED BY THE CRACK SEALING OPERATION.

642, EDGE LINE, 6," TYPE 1A	5.0 MILE
642 LANE LINE, 6", TYPE 1A	10.00 MILE
642 CENTER LINE, TYPE 1A	5.0 MILE
642, CHANNELIZING LINE, 8", TYPE 1A	100 FT
642, CHANNELIZING LINE, 12", TYPE 1A	100 FT
642, STOP LINE, TYPE 1A	100 FT
642, DOTTED LINE, 6", TYPE 1A	100 FT

ITEM 423 - CRACK SEALING, TYPE IV

THE CRACK SEALING SHALL INCLUDE LANES, SHOULDERS, PAVEMENT JOINTS, AND TURNING LANES AND SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF CMS 423. PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE PER SQUARE YARD.

EXAMPLE: ONE 12' WIDE LANE A MILE LONG = 7040 SY

THE ESTIMATED QUANTITIES CARRIED TO THE GENERAL SUMMARY HAVE BEEN CALCULATED BASED UPON EXISTING PLANS. QUANTITIES TO BE PAID WILL BE DETERMINED FROM ACTUAL FINAL FIELD MEASUREMENTS SUBJECT TO THE ENGINEER APPROVAL.

RAILROAD CROSSINGS

THE CONTRACTOR SHALL STAY OFF OF THE RIGHT-OF-WAY OF ANY RAILROADS THAT INTERSECT ROUTE SEGMENTS INCLUDED WITHIN THE WORK LOCATIONS OF THIS PROJECT. NO WORK SHALL BE PERFORMED ON ANY RAILROAD RIGHT-OF-WAY.

STATE SCENIC RIVER - GRAND RIVER, PYMATUNING CREEK, AND UPPER CUYAHOGA RIVER

THE CONTRACTOR SHALL NOT DISCHARGE TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINT, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTE-WATER, FUELS OR DEBRIS OF ANY KIND TO A SCENIC RIVER, ITS TRIBUTARIES, OR DRAINAGE WAYS. IF REFUELING OF IMMOBILE EQUIPMENT IS NECESSARY WITHIN THE FLOODPLAIN OR NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES, OR STREAM, THE CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT WITH ENOUGH CAPACITY TO COMPLETELY CONTAIN AND COLLECT ALL POTENTIAL LIQUID WASTES IN THE EVENT OF A SPILL.

ANY AND ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL, AND TRASH SHOULD BE DISPOSED OF AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS. DISPOSAL OF ANY SUCH MATERIALS WITHIN 1000 FEET OF THE STATE SCENIC GRAND RIVER, UPPER CUYAHOGA RIVER, AND PYMATUNING CREEK IS PROHIBITED.

IN ACCORDANCE WITH ORC 3750.06, REPORTABLE SPILLS MUST BE REPORTED TO THE LOCAL FIRE DEPARTMENT (911), THE LOCAL EMERGENCY COORDINATORS MIKE FITCHET, ASHTABULA COUNTY EMA DIRECTOR, (440) 576-3500, RYAN SHACKELFORD, PORTAGE COUNTY EMA DIRECTOR, (330) 697-2689, OR JOHN HICKEY, TRUMBULL COUNTY EMA DIRECTOR (330-770-0222), AND THE OHIO SPILL LINE (1-800-282-9378).

THE CONTRACTOR SHALL KEEP ALL IDLE EQUIPMENT, FUELS, LUBRICANTS, AND ANY STORAGE FOR/OF POTENTIALLY TOXIC OR HAZARDOUS MATERIALS OUT OF THE FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA AND NOT WITHIN 1000 FEET OF THE STATE SCENIC GRAND RIVER, UPPER CUYAHOGA, AND PYMATUNING CREEK.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER 40 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE STATE SCENIC GRAND RIVER, UPPER CUYAHOGA, AND PYMATUNING CREEK. THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT ENVIRONMENTAL COORDINATOR 35 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE SCENIC RIVER. THE DISTRICT ENVIRONMENTAL COORDINATOR SHALL COORDINATE WITH ODNR SCENIC RIVERS A MINIMUM OF 15 DAYS PRIOR TO ANY WORK WITHIN 1000 FEET OF STATE SCENIC GRAND RIVER, UPPER CUYAHOGA, AND PYMATUNING CREEK.

GENERAL NOTES

DESIGN AGENCY



DESIGNER

ROF

REVIEWER

CLG 08-17-22

PROJECT ID

116078

SHEET

P.9

TOTAL

19

ITEM 614, 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. FOR WORK AREAS OF THREE LANES OR LESS:
A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK. MAINTAIN TRAFFIC IN ACCORDANCE WITH THE APPLICABLE STANDARD DRAWINGS.

FOR WORK AREAS OF FOUR LANES OR MORE:
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. MAINTAIN TRAFFIC IN ACCORDANCE WITH THE MOST CURRENT PERMITTED LANE CLOSURE CHART AND THE APPLICABLE STANDARD DRAWINGS.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

4. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

5. 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.

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

7. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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 FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

8. 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.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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 FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT THE FOLLOWING PROJECTS MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT.

ATB-US 6/SR 7-20.28/VAR (PID: 110646)
MAH-SR 165/SR 534-5.46/3.02 (PID : 110680)
MAH-POLAND SIGN UPGRADE (PID: 107226)
POR/SUM-IR 76-1.57/VAR (PID: 94009)
POR-US 224-9.09 (PID: 107920)
POR-SR 5/VAR-5.09/VAR (PID: 110672)
POR/STA-CULVERTS-FY2023 (PID:106200)
POR-IR 76-20.05 SLIDE (PID: 109670)
POR-SR 14-6.43 (PID: 113733)
POR-SR 43/43D-11.87/0.00 (PID: 101270)
STA-US 62-26.72 (PID: 112749)
SUM-IR 271-8.52 (PID: 93101)
D04-MCRO-FY 2023 (PID: 105059)
D04-PM R-WR-FY2023 (PID: 115375)
D04-RPM-FY2023 (PID: 106308)
D04-BH-FY2023 (PID: 105170)
D04-SIGN-FY2023 (PID: 110489)
D04-CULVERTS-FY2023 (EAST) (PID: 113703)

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.

LANE CLOSURES

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:
<http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2,500 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

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.

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).

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).

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.

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 ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. 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 150 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.

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	5 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.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN,
AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE HE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR’S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

TRU- SR 193 RAMP CLOSURES:
RAMP CLOSURES SHALL ONLY BE PERMITTED AT NIGHT AND ONLY ONE ONE RAMP SHALL BE CLOSED PER NIGHT.

REFER TO SHEET P.8 FOR RAMP DESIGNATIONS AND LOCATIONS
AND THE TABLE BELOW FOR TEMPORARY DETOUR AND PCMS INFORMATION.

RAMP	RAMP FROM	RAMP TO	PCMS TIME (HOURS)	RAMP DETOUR DESCRIPTION
A	SR 193 NB/SB	IR 80 EB	2	USE RAMP D AND RAMP C TO ENTER IR 80 WB AND THEN EXIT AT THE US 422 RAMP. THEN USE THE US 422 RAMP TO ENTER IR 80 EB
B	IR 80 WB	SR 193 NB/SB	2	EXIT AT THE US 422 RAMP. THEN USE THE US 422 RAMP TO ENTER IR 80 EB AND THEN EXIT AT E. LIBERTY ST. TURN RIGHT AND ARIVE AT THE SR 193 AND E. LIBERTY ST. INTERSECTION.
C	SR 193 NB	IR 80 WB	2	TURN ONTO E. LIBERTY STREET (FROM SR 193), GOING WB) THEN TURN LEFT ON US 422 N. STATE ST. USE THEUS 422 RAMP TO ENTER IR 80 WB.
D	SR 193 NB/SB	IR 80 WB	2	TURN ONTO E. LIBERTY STREET (FROM SR 193), GOING WB) THEN TURN LEFT ON US 422 N. STATE ST. USE THEUS 422 RAMP TO ENTER IR 80 WB.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK

614 PORTABLE CHANGEABLE MESSAGE SIGN,
AS PER PLAN, 6 SIGN MONTH

LOCAL SPECIAL EVENTS AND FESTIVALS

KNOWN EVENTS WITHIN COUNTIES AFFECTED BY THIS WORK ARE LISTED BELOW. NO WORK WITHIN THE AFFECTED COUNTY SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN DURING THE DESIGNATED SPECIAL EVENTS. WORK BEYOND THE IMMEDIATE VICINITY OF A LISTED EVENT MAY BE PERFORMED ONLY AT THE DISCRETION OF THE PROJECT ENGINEER.

ASHTABULA COUNTY
GENEVA GRAPE JAMBOREE
GENEVA ON THE LAKE (SR 531) - NO WORK BETWEEN MEMORIAL DAY THRU LABOR DAY

STARK COUNTY
FOOTBALL HALL OF FAME FESTIVITIES

MAHONING COUNTY
HOT ROD SUPERNATIONALS
CANFIELD FAIR

SUMMIT COUNTY
BRIDGESTONE INTERNATIONAL (AKRON)
AKRON MARATHON
TWIN'S DAY (TWINSBURG)
SWEET CORN FESTIVAL (RICHFIELD)

PORTAGE COUNTY
PORTAGE COUNT FAIR

THE CONTRACTOR SHALL HAVE THE ALL LANES OPEN BEGINNING 2:00PM THE DAY BEFORE THE EVENT STARTS UNTIL 6:00AM THE MORNING AFTER THE EVENT ENDS. IN THE CASE OF AN EVENT THAT IS FOR THE DURATION OF A WEEKEND, ALL LANES SHALL BE OPEN BY 2:00PM THE FRIDAY BEFORE THE EVENT AND WILL REMAIN OPEN UNTIL AT LEAST 6:00 AM ON THE MONDAY AFTER THE EVENT. SHOULD THE CONTRACTOR FAIL TO HAVE THE LANES OPEN AS DESCRIBED ABOVE, A DISSINCENTIVE PENALTY WILL BE ASSESSED IN THE AMOUNT OF \$2,500 PER HOUR THAT A LANE REMAINS CLOSED. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE LOCAL COMMUNITY THE EXACT DATES OF THE LISTED SPECIAL EVENTS.

ITEM 614 - MAINTAINING TRAFFIC (WINTER TIME LIMITATIONS)

ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN [OCTOBER 15] AND [APRIL 1]. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$5,000 PER CALENDAR DAY.

DESIGN AGENCY



DESIGNER
ROF

REVIEWER
CLG 08-17-22

PROJECT ID
116078

SHEET	TOTAL
P.11	19

D04-CS-FY2023

MODEL: Steel PAPER SIZE: 34x22 (In.) DATE: 10/5/2022 TIME: 11:23:28 AM USER: rfrno
 pw:\vohido-pw.bentley.com:oiddo-pw-02 Documents\01 Active Projects\District 04_D04\116078\400-Engineering\Roadway\Sheets\116078_GG001.dgn

[illegible]

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

ROF

REVIEWER

CLG 08-17-22

PROJECT ID	116078
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SHEET	TOTAL
P.12	1

LOCATION														
COUNTY	ROUTE	SECTION (S.L.M.)		LENGTH (MI)	AVERAGE WIDTH (FT)	SIDE							423	REMARKS
													CRACK SEALING, TYPE IV	
		FROM	TO										SY	
ATB	531	2.00	7.50	5.50	23	L/R							74214	
ATB	84	0.00	2.50	2.50	20	L/R							29334	
ATB	84	4.00	7.80	3.80	20	L/R							44587	
ATB	534	19.30	20.50	1.20	30	L/R							21120	
ATB	6	0.00	20.00	20.00	22	L/R							258134	
ATB	45	3.00	10.70	7.70	24	L/R							108416	
ATB	11	0.00	13.30	13.30	44	L/R							343318	
ATB	322	17.40	22.40	5.00	24	L/R							70400	
TOTALS CARRIED TO GENERAL SUMMARY													949523	

ATB INTERSECTIONS

<u>SR 531</u>										<u>SR 534</u>					<u>SR 11</u>				
MYERS	SLM 2.31	PINE	SLM 6.21	RAMP FROM/TO IR 90	SLM 19.30	GUEST	SLM 13.19	RAMP FROM US 322	SLM 2.30										
STONES-LONG BEACH	SLM 3.28	PINE SIDE	SLM 6.23	RAMP FROM/TO IR 90	SLM 19.43	PECK	SLM 13.78	RAMO TO US 322	SLM 2.33										
NINEVAH	SLM 3.93	WILLOW	SLM 6.27	RAMP TO IR 90	SLM 19.54	DAY	SLM 14.06	RAMP TO US 322	SLM 2.65										
PEARL	SLM 4.01	WILLOW SIDE	SLM 6.28	OLD ORCHARD	SLM 19.54	EAST UNION	SLM 14.61	RAMP FROM US 322	SLM 2.67										
LAKE HURST	SLM 4.06	OAK	SLM 6.33	ALEX	SLM 19.71	RAMP FROM SR 11	SLM 14.92	WINDSOR	SLM 3.99										
LAKE HURST	SLM 4.08	LAKEVIEW	SLM 6.37	CLAY	SLM 20.21	RAMP TO SR 11	SLM 14.93	RAMP TO US 6	SLM 7.25										
LINNA	SLM 4.11	CHESTNUT	SLM 6.42	GREENRIDGE	SLM 20.42	RAMP FROM/TO SR 11	SLM 15.13	RAMP FROM US 6	SLM 7.44										
RUDD	SLM 4.41	LOCUST	SLM 6.49	RICHARD	SLM 20.50	KNAPP	SLM 15.48	RAMP FROM US 6	SLM 7.56										
RUSSELL	SLM 4.46	ATLANTIC	SLM 6.51			LOVELAND	SLM 16.51	RAMP TO US 6	SLM 7.60										
MARINERS POINT	SLM 4.46	STOWE	SLM 6.55	<u>US 6</u>		RUSSELL	SLM 16.88												
LINWOOD	SLM 4.65	DEVON	SLM 6.68	IRELAND	SLM 0.55	SR 193	SLM 17.47	<u>US 322</u>											
OLIVE	SLM 4.70	WARRICK	SLM 6.75	HYDE	SLM 1.56	CENTER	SLM 17.50	SR 193	SLM 17.49										
DOUGLAS	SLM 4.77	BRISTOL	SLM 6.81	US 6F	SLM 2.55	HAYES	SLM 18.40	HAYES	SLM 18.48										
LINWOOD	SLM 4.80	WESTMINSTER	SLM 6.86	SR 534	SLM 2.59	CREEK	SLM 19.67	CREEK	SLM 19.72										
SHADYSIDE	SLM 5.05	EDGEWATER	SLM 6.98	SR 534/US 6F	SLM 2.63			STANHOPE-KELLOGSVILLE	SLM 20.44										
HOMEWOOD	SLM 5.09	ELK	SLM 7.24	HIGHLEY	SLM 3.60	<u>SR 45</u>		MILL	SLM 20.68										
HIGHLAND	SLM 5.13	<u>SR 84</u>		HURLBURT	SLM 4.15	HAGUE/NEW HUDSON	SLM 3.37	OLD SALT/RIDGE	SLM 21.55										
MORNINGSIDE	SLM 5.18	COUNTRY LINE	SLM 0.00	WINSOR-MECHANICSVILLE	SLM 4.64	WINDSOR	SLM 3.87												
CENTURY BAY	SLM 5.23	WALTER MAIN/VAN PELT	SLM 1.33	SR 45	SLM 7.17	MONTGOMERY	SLM 4.23												
SAYBROOK	SLM 5.31	WEST	SLM 2.13	CHESTER	SLM 8.21	JOHNSON/FILLINGHAM	SLM 5.20												
MAPLE	SLM 5.47	LAFEVER	SLM 2.34	STATION	SLM 8.33	DODGEVILLE/ALLEN	SLM 6.20												
ELM	SLM 5.50	BARNUM	SLM 4.70	ROME-ROCK CREEK	SLM 9.20	US 6	SLM 7.21												
WALNUT	SLM 5.54	SYLVAN	SLM 4.87	EVENING STAR	SLM 9.58	LASKEY	SLM 8.19												
CENTER	SLM 5.57	MYERS	SLM 5.03	DODGE	SLM 9.59	KETCHUM	SLM 8.25												
ARCOLA	SLM 5.74	TUTTLE	SLM 5.39	LAKE VUE	SLM 9.80	CALLENDER	SLM 9.26												
HIGHLAND	SLM 5.90	SEXTON	SLM 5.91	CROSBY COOK/WAY/MILLER	SLM 10.21	SHAFFER	SLM 10.30												
OVERLOOK	SLM 6.12	BROWN	SLM 7.04	SR 46	SLM 11.56	ROME-ROCK CREEK	SLM 10.63												
OVERLOOK	SLM 6.17			LENOX-NEW LYME	SLM 12.47														

ATB CALCULATIONS



LOCATION														
COUNTY	ROUTE	SECTION (S.L.M.)		LENGTH (MI)	AVERAGE WIDTH (FT)	SIDE							423	REMARKS
													CRACK SEALING, TYPE IV	
		FROM	TO										SY	
MAH	224	7.60	11.77	4.17	22	L/R							53821	
MAH	224	14.00	20.00	6.00	58	L/R							204160	
MAH	224	20.78	25.33	4.55	28	L/R							74742	
MAH	45	11.78	14.15	2.37	46	L/R							63959	
MAH	46	16.35	16.65	0.30	64	L/R							11264	
MAH	170	0.00	0.80	0.80	20	L/R							9387	
MAH	617	3.68	4.73	1.05	22	L/R							13552	
MAH	630	0.60	2.80	2.20	22	L/R							28395	
MAH	626	0.00	3.50	3.50	22	L/R							45174	
TOTALS CARRIED TO GENERAL SUMMARY													504454	

MAH INTERSECTIONS

<u>US 224</u>										<u>SR 170</u>				
SALEM WARREN	SLM 7.60	TRENHOLM	SLM 17.19	MARION	SLM 20.87	SPRING	SLM 0.78	GRANGER	SLM 3.04					
GAULT	SLM 8.54	GLENWOOD	SLM 17.28	DIANA	SLM 20.94			MAPLECROFT	SLM 3.13					
GAULT	SLM 8.74	GLENDALE	SLM 17.33	ROSE LYNN	SLM 21.16	<u>SR 617</u>		WOODWORTH	SLM 3.44					
KNAUF	SLM 9.61	LOCUST/SALINAS	SLM 17.47	TALA	SLM 21.24	EGARFIELD	SLM 3.77	MARKET	SLM 3.54					
CRORY	SLM 10.11	VINELAND	SLM 17.53	SHAWBUTTE	SLM 21.34	SPRING	SLM 3.84							
PHEASANT	SLM 10.86	WESTVIEW	SLM 17.54	CLINGAN	SLM 21.52	KEEBLER	SLM 3.90							
SPALMYRA	SLM 11.24	AMHERST	SLM 17.60	OLDE STONE CROSSING	SLM 21.68	CHERRY	SLM 4.00							
HUNTERS WOODS	SLM 11.47	CLAYBOURNE	SLM 17.66	POLAND	SLM 21.91									
SR 446	SLM 11.61	MARKET	SLM 17.19	LUTERAN	SLM 22.14	<u>630</u>								
WELDON	SLM 11.77	SHELDON	SLM 17.96	JAMES	SLM 22.20	STRUTHERS	SLM 0.70							
IRONWOOD	SLM 14.04	MARINTHANA	SLM 18.06	PERDULLA	SLM 22.48	DELRAY	SLM 0.80							
SUMMIT	SLM 14.22	CALIFORNIA	SLM 18.12	POLAND CENTER	SLM 22.55	RAPP	SLM 1.55							
WESTFORD	SLM 14.28	SOUTHERN	SLM 18.18	STRUTHERS	SLM 22.77	FELGER	SLM 1.82							
WESTFORD	SLM 14.41	TANGLEWOOD	SLM 18.33	JARIC	SLM 23.54	METZ	SLM 2.03							
WESTFORD	SLM 14.54	APPLEWOOD	SLM 18.81	QUARRY	SLM 23.75	STATE LINE	SLM 2.56							
SEVILLE	SLM 15.04	BRIDGEWOOD	SLM 18.89	LOWELLVILLE	SLM 24.87									
TIPPECANOE	SLM 15.25	EISENHOWER	SLM 18.95	STYMIE	SLM 24.98	<u>626</u>								
PHEASANT	SLM 15.48	BRISTLEWOOD	SLM 19.02			SOUTH RANGE/WOODWORTH	SLM 0.00							
GOLF	SLM 15.80	SOUTH	SLM 19.27	<u>SR 45</u>		MILEY	SLM 0.54							
PINEWOOD	SLM 16.23	TIFFANY	SLM 19.49	MAHONING	SLM 11.78	SOUTH	SLM 1.08							
MILL CREEK	SLM 16.31	RAMP	SLM 19.54	JACKSON MEADOWS	SLM 11.95	MIDDLETOWN/SOUTH	SLM 1.24							
PARKSIDE	SLM 16.39	RAMP	SLM 19.61	SILICA	SLM 13.01	SOUTH	SLM 1.27							
HARRINGTON	SLM 16.41	RAMP	SLM 19.65	GLADSTONE	SLM 13.73	CALLA	SLM 2.34							
RONJOY	SLM 16.52	RAMP	SLM 19.69	GLADSTONE	SLM 13.86	KREPS	SLM 2.51							
RON PARK	SLM 16.60	RAMP	SLM 19.78			C	SLM 2.82							
WEST	SLM 16.78	RAMP	SLM 19.85	<u>SR 46</u>		B	SLM 2.84							
HITCHCOCK	SLM 17.04	AUDUBON	SLM 19.93	RAMP/CLARKINS	SLM 16.58	A	SLM 2.89							
SUGARTREE	SLM 17.16	DUNCAN	SLM 20.81			FOREST	SLM 2.94							

MAH CALCULATIONS

DESIGN AGENCY



DESIGNER

ROF

REVIEWER

CLG 08-17-22

PROJECT ID

116078

SHEET

P.14

TOTAL

19

LOCATION														423	REMARKS
COUNTY	ROUTE	SECTION (S.L.M.)		LENGTH (MI)	AVERAGE WIDTH (FT)	SIDE							CRACK SEALING, TYPE IV		
		FROM	TO										SY		
POR	14	7.15	10.55	3.40	30	L/R							59840		
POR	14	11.25	18.19	6.94	24	L/R							97716		
POR	14	25.41	28.77	3.36	24	L/R							47309		
POR	43	0.00	9.89	9.89	30	L/R							174064		
POR	43	13.22	15.59	2.37	24	L/R							33370		
POR	59	3.32	6.83	3.51	48	L/R							98842		
POR	76	9.73	21.20	11.47	44	L/R							296079		
POR	82	9.14	12.86	3.72	22	L/R							48013		
POR	224	0.00	12.99	12.99	24	L/R							182900		
POR	224	13.00	18.67	5.67	22	L/R							73181		
POR	225	5.24	15.87	10.63	22	L/R							137198		
POR	303	4.98	8.73	3.75	20	L/R							44000		
TOTALS CARRIED TO GENERAL SUMMARY													1292512		

POR INTERSECTIONS

SR 14										
PRICE	SLM 6.63	RAMP FROM/TO IR 76	SLM 17.36	TRARES	SLM 3.87	DIAGONAL	SLM 13.95	BRAMLEY	SLM 6.67	
LAKE ROCKWELL	SLM 6.80	RAMP FROM/TO IR 76	SLM 17.56	RANDOLPH	SLM 3.94	RAVENNA	SLM 14.25	MORGAN	SLM 6.79	
DAWLEY	SLM 7.82	TALLMADGE	SLM 18.06	SAXE	SLM 5.38	RAVENNA	SLM 14.35	IR 76		
M&M MHP	SLM 7.83	SR 224	SLM 25.41	SQUIRES	SLM 5.58	SYLVAN	SLM 14.55	RAMP TO SR 14		SLM 12.78
M&M MHP	SLM 7.85	BANDY	SLM 26.10	CHEROKEE PARK CAMPGROUND	SLM 5.87	KNOLL	SLM 14.76	RAMP FROM SR 14		SLM 13.45
MEADOWBROOK	SLM 8.11	BANDY/BERLIN HEIGHTS	SLM 26.12	DORALEE	SLM 5.88	OVERLOOK	SLM 14.78	RAMP TO SR 225		SLM 18.25
BIRCHVIEW	SLM 8.50	BRIDGEVIEW	SLM 26.32	OVERLOOK	SLM 6.15	MERRILL	SLM 14.90	RAMP FROM SR 225		SLM 18.95
PINE RIDGE	SLM 8.75	TWIN OAKS	SLM 26.46	SUNVIEW	SLM 6.19	ALTA	SLM 15.46	SR 82		
CLEVELAND	SLM 8.89	CARTERS FORD	SLM 26.72	HILLTOP	SLM 6.22	SOUTH	SLM 15.50			
INFIRMARY	SLM 9.35	BEAR HOLLOW	SLM 26.85	PARKSIDE	SLM 6.26	NORTH	SLM 15.56			
SR 44/NCHESTNUT	SLM 10.20	SEBRING	SLM 27.58	SUNVIEW	SLM 6.45	SR 59				
FOXWOOD	SLM 11.88	HICKORY	SLM 26.62	OLD FORGE	SLM 6.58	ALPHA	SLM 3.40	SR 44	SLM 9.24	
WASHINGTON	SLM 12.11	WAGNER	SLM 27.96	HIGHPOINT	SLM 6.79	RHODES	SLM 3.47	SHELDON	SLM 10.23	
EHIGHLAND/HAZEL	SLM 12.39	KIRKBRIDGE	SLM 28.21	ARCADIA	SLM 7.10	WHISPERING PHINES MHP	SLM 3.65	SPENCER PARK	SLM 1069	
GLADYS	SLM 12.53	HAWTHORNE	SLM 28.44	DUSSEL	SLM 7.14	SR 261	SLM 3.80	RIVER BEACH	SLM 10.70	
EMAIN/SR 59	SLM 12.58	CHRISTYS MHP	SLM 28.66	TALLMADGE	SLM 7.76	ERIE	SLM 4.30	VAUGHN	SLM 10.82	
RAMP FROM/TO SR 5	SLM 12.92	CHRISTYS MHP	SLM 28.69	KELSO	SLM 7.92	COX/POWDER MILL	SLM 4.42	ABBOTT	SLM 11.86	
SR 5 E TO STATE	SLM 13.02	SR 43		TOWN SQUARE	SLM 8.13	PEBBLEBROOK	SLM 4.71	ALPHA	SLM 12.65	
RAMP FROM/TO SR 5	SLM 13.07			BEAL	SLM 8.18	VILLAGE ESTATES	SLM 5.71	RYDER	SLM 12.86	
BENTLEY	SLM 13.12	MANNING	SLM 0.64	RAMP FROM/TO IR 76	SLM 8.20	VILLAGE ESTATES	SLM 5.83	US 224		
SANDRA	SLM 14.02	LAURA	SLM 0.78	EDSON	SLM 8.35	MENOUGH	SLM 5.87	PORTAGE LINE/CLEVELAND	SLM 0.00	
HAYES	SLM 14.45	SWARTZ	SLM 0.97	RAMP FROM/TO IR 76	SLM 8.36	BRADY LAKE	SLM 6.32	RHODES	SLM 2.12	
INDUSTRY	SLM 14.65	WINGFOOT LAKE	SLM 1.39	HOLIDAY	SLM 8.42	HOOVER	SLM 6.33	SR 43	SLM 2.42	
KNAPP	SLM 14.75	SHUFFIELD OAKS	SLM 1.83	SANCTUARY VIEW	SLM 8.52	SHORT	SLM 6.38	CONGRESS LAKE	SLM 3.37	
CABLE LINE	SLM 14.98	SHENK	SLM 1.87	BRIMFIELD	SLM 8.75	SPRING	SLM 6.45	MAY	SLM 3.85	
BOOTH	SLM 16.18	WATERLOO	SLM 2.46	HOWE	SLM 8.98	HILL	SLM 6.52	CARRIAGE	SLM 4.53	
CARLISLE	SLM 16.83	SR 224	SLM 2.74	SHERMAN	SLM 9.45	BRIDGE	SLM 6.58	CONLEY	SLM 4.85	
ST ANDREWS	SLM 17.13	ETTER	SLM 2.78	MELOY	SLM 9.89			SCHROEDER	SLM 5.27	

POR CALCULATIONS



WATERLOO	SLM 6.24
HARTVILLE	SLM 6.60
SR 44	SLM 7.71
NEW MILFORD	SLM 9.40
WATERLOO	SLM 9.54
WATERLOO	SLM 9.56
INDUSTRY	SLM 10.53
BANK	SLM 12.14
SR 183	SLM 12.99
WATERLOO/SR 183	SLM 13.51
PORTER	SLM 14.79
ALLIANCE/SR 225	SLM 16.09
NOTMAN	SLM 17.70
WATSON	SLM 17.85
SR 225/SR 14	SLM 18.60
SR 14	SLM 18.63
SR 225/SR 14	SLM 18.67
<u>SR 225</u>	
SR 14	SLM 5.24
MOTTOWN	SLM 6.64
YALE	SLM 7.71
WILLIAMS/WINDING CREEK	SLM 8.81
CORBETT	SLM 9.22
TALLMADGE	SLM 10.25
RAMP FROM/TO IR 76	SLM 10.67
RAMP FROM/TO IR 76	SLM 10.80
WHIPPOORWILL	SLM 11.22
CABLE LINE	SLM 12.67
GRIFFITH	SLM 12.84
GILBERT	SLM 13.96
NEWTON FALLS	SLM 14.90
MINYOUNG	SLM 15.68
SR 5	SLM 15.76
<u>SR 303</u>	
KIEFFER	SLM 5.18
DIAGONAL	SLM 5.54
PRICE	SLM 5.77
MARY ELLEN	SLM 5.83
JEROME	SLM 6.10
COIT	SLM 6.79
INFIRMARY	SLM 7.54
SR 44	SLM 8.72

POR CALCULATIONS



DESIGN AGENCY	
DESIGNER	
ROF	
REVIEWER	
CLG	08-17-22
PROJECT ID	
116078	
SHEET	TOTAL
P.16	19

LOCATION														
COUNTY	ROUTE	SECTION (S.L.M.)		LENGTH (MI)	AVERAGE WIDTH (FT)	SIDE							423	REMARKS
													CRACK SEALING, TYPE IV	
		FROM	TO										SY	
STA	800	0.00	8.68	8.68	22	L/R							112030	
STA	212	2.35	5.50	3.15	20	L/R							36960	
STA	44	14.10	23.21	9.11	20	L/R							106891	
STA	93	19.24	20.64	1.40	20	L/R							16427	
STA	241	14.58	17.90	3.32	30	L/R							58432	
TOTALS CARRIED TO GENERAL SUMMARY													330740	

STA INTERSECTIONS

SR 800

MAYCREST
HILLWOOD
FARBER
WESTBROOK
LINFORD
MAIN
LEATHERMAN
SPARTA
SPARTA
SPARTA
BATTLESBURG
ANN JEAN
SPARTA
SPARTA
HOWENSTINE
DEERWOOD
HOWENSTINE
RIDGE
FOHL/53RD
52ND
51ST
50TH
49TH
48TH
46TH
RIDGE/45TH
43ST
43RD

SLM 0.22
SLM 0.51
SLM 0.80
SLM 1.39
SLM 1.43
SLM 1.51
SLM 1.91
SLM 2.57
SLM 3.20
SLM 3.27
SLM 3.74
SLM 3.83
SLM 4.14
SLM 4.24
SLM 4.76
SLM 4.82
SLM 5.68
SLM 5.78
SLM 6.41
SLM 6.48
SLM 6.58
SLM 6.64
SLM 6.69
SLM 6.81
SLM 6.94
SLM 6.98
SLM 7.14
SLM 7.17

42ND
HAIRCREST
40TH
39TH
38TH
37TH
FIGUEROA
CARNWISE
35TH
34TH
33RD
IRONWOOD
32ND
SOUTHGATE SHOP CTR
30TH
29TH
28TH
MILL

SR 212

SHETLER
BLOUGH
BARDELL
RIVERLAND

SR 44

TROY/TROJAN
RAMP FROM/TO US 62

SLM 7.23
SLM 7.32
SLM 7.45
SLM 7.54
SLM 7.64
SLM 7.73
SLM 7.82
SLM 7.91
SLM 7.94
SLM 8.04
SLM 8.12
SLM 8.15
SLM 8.27
SLM 8.38
SLM 8.43
SLM 8.50
SLM 8.62
SLM 8.65

SLM 3.40
SLM 3.94
SLM 4.46
SLM 5.28

SLM 14.17
SLM 14.28

ATLANTIC
RAMP FROM/TO US 62
RAMP TO US 62
BROOKVIEW
HOOVERDALE
GAYVIEW
TODD
WILLOW
EASTON
COLUMBUS
ST FRANCIS
HAHN
LAKEFIELD
TABERNACLE
BELLHURST
SR 173/STATE
ALBERTA BEACH
BEESON
ST PETERS CHURCH
NIMISHILLEN CHURCH
ST PETERS CHURCH
CENTER
EDISON
SWAMP
ALLEN
PINEDALE
PONTIUS

SLM 14.38
SLM 14.49
SLM 14.52
SLM 14.61
SLM 14.62
SLM 14.72
SLM 14.99
SLM 15.05
SLM 15.13
SLM 15.57
SLM 15.85
SLM 16.16
SLM 16.20
SLM 16.37
SLM 16.46
SLM 17.19
SLM 18.19
SLM 18.68
SLM 19.12
SLM 19.19
SLM 19.38
SLM 20.20
SLM 20.69
SLM 20.70
SLM 22.39
SLM 22.70
SLM 22.96

SR 93

TRITTS
CAMELOT
SPRING GROVE
BABST

SLM 20.01
SLM 20.04
SLM 20.31
SLM 20.46

SR 241

MUDBROOK
PONTBERRY
SUWANEE
PINELANE
THORNWOOD
CELINA
PORTAGE
GLORINE
NANCY JO
BRAUCHER
HUCKLEBERRY
STRAUSSER
WILLOWDALE
SHUFFEL
MT PLEASANT

SLM 14.58
SLM 14.71
SLM 15.13
SLM 15.18
SLM 15.21
SLM 15.26
SLM 15.59
SLM 15.76
SLM 15.82
SLM 16.10
SLM 16.19
SLM 16.62
SLM 16.86
SLM 17.38
SLM 17.90



MODEL: Sheet 6 PAPER SIZE: 34x22 (in.) DATE: 10/5/2022 TIME: 11:23:39 AM USER: rfrano
 pw:\votbdo-pw.bentley.com:ibidbdo-pw-02 Documents\01 Active Projects\District 04_ D04\116078\400-Engineering\Roadway\Sheets\116078_GS001.dgn

[illegible]

SUM INTERSECTIONS

IR 77

RAMP FROM SR 8	SLM 12.11
RAMP FROM IR 76	SLM 12.22
IR 76	SLM 12.26
IR 76	SLM 15.06
RAMP FROM IR 76	SLM 15.20
RAMP FROM SR 261	SLM 15.82
RAMP TO DIAGONAL	SLM 15.83
RAMP TO SR 261	SLM 15.92
RAMP FROM DIAGONAL	SLM 15.96

IR 271

RAMP TO SR 8	SLM 11.59
RAMP FROM SR 8	SLM 12.06
RAMP TO SR 82	SLM 12.85
RAMP FROM SR 82	SLM 12.87

SUM CALCULATIONS



[illegible]

TRU INTERSECTIONS

SR 11

RAMPS FROM/TO KING GRAVES	SLM 12.58	TERRA BELLA	SLM 2.98
RAMPS FROM/TO SR 305	SLM 15.31	WILSON	SLM 3.04
<u>SR 193</u>		HARDING	SLM 3.09
GYPSY	SLM 0.00	LINCOLN	SLM 3.15
CRUMRINE	SLM 0.11	PARK	SLM 3.20
BELGRADE/FAIRLAWN	SLM 0.16	LIBERTY	SLM 3.26
COLONIAL	SLM 0.23	GARFIELD	SLM 3.31
AMHERST	SLM 0.26	TIBBETTS WICK	SLM 3.42
DARLINGTON	SLM 0.31	KLINES	SLM 4.04
TRUMBULL	SLM 0.51	KLINES	SLM 4.05
EUCLID	SLM 0.59	LUCRETIA	SLM 4.09
MANSELL	SLM 0.66	TUTTLE	SLM 4.38
GOLDIE	SLM 0.83	CREWS HOOD	SLM 4.79
HAZELWOOD	SLM 0.95	LITCO	SLM 4.98
LIBERTY PLAZA	SLM 1.01	SMITH STEWART	SLM 5.18
LAUREL	SLM 1.11	SMITH STEWART	SLM 5.37
MONTROSE	SLM 1.19	SQUAW CREEK	SLM 6.17
CATHERINE	SLM 1.27	SHERIDAN	SLM 6.29
LIBERTY	SLM 1.35	CREEKSIDE	SLM 6.52
RAMP TO IR 80	SLM 1.45	CREEKSIDE	SLM 6.53
RAMP TO IR 80	SLM 1.55	RAMP FROM/TO SR 82	SLM 6.71
MOTOR INN	SLM 1.57	RAMP FROM ST 82	SLM 6.75
RAMP TO IR 80	SLM 1.66		
RAMP FROM IR 80	SLM 1.67		
CHURCHILL	SLM 1.97		
EXCELLENCE	SLM 2.41		
NAYLOR LLOYD	SLM 2.76		

TRU CALCULATIONS