

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUM-59-7.95

CITY OF CUYAHOGA FALLS AND CITY OF STOW VILLAGE OF SILVER LAKE SUMMIT COUNTY

FEDERAL PROJECT NUMBER

E200(187)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

RESURFACING OF SR 59 FROM 7.95 TO 12.67 IN SUMMIT COUNTY.

EARTH DISTURBED AREAS

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

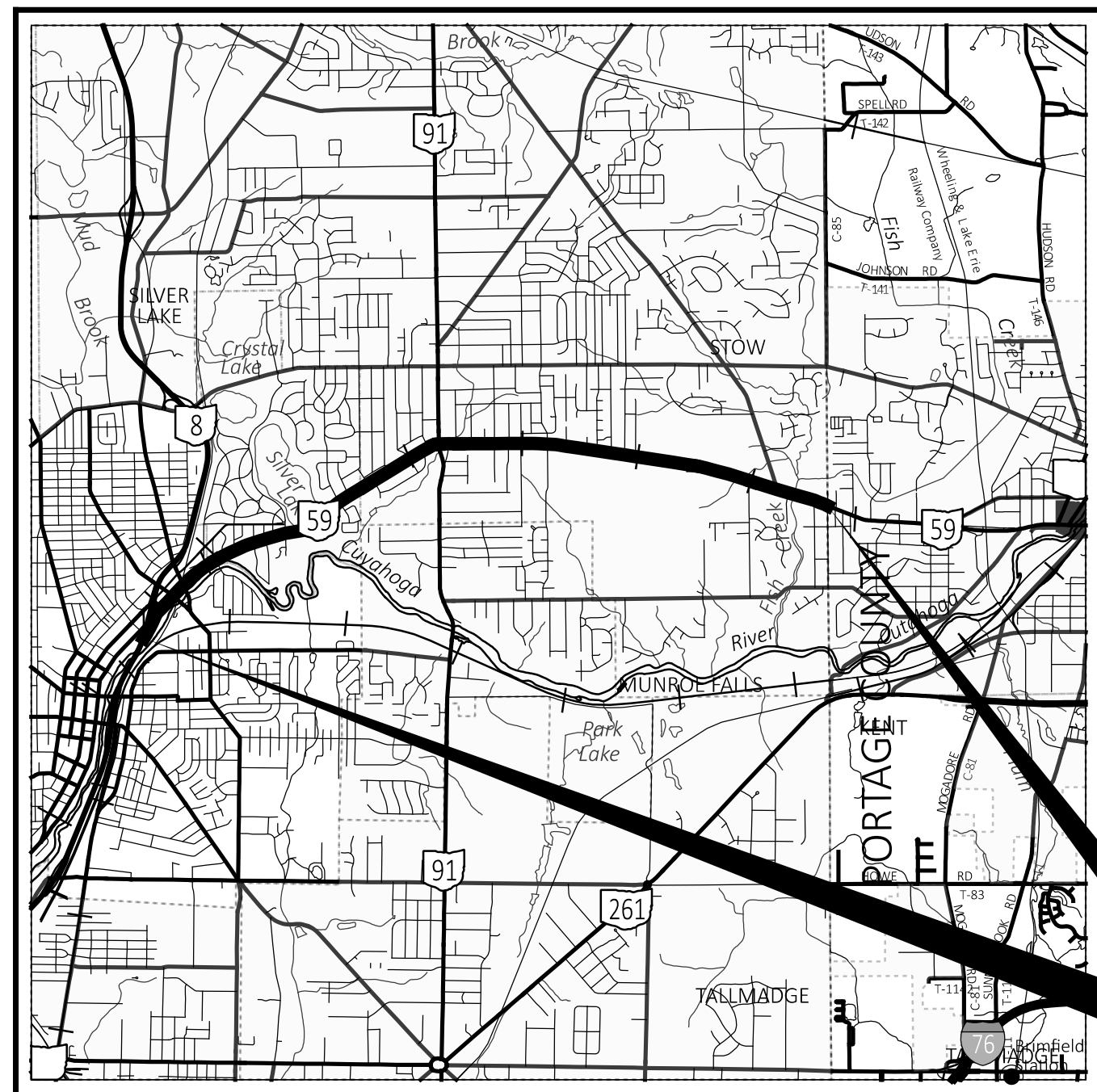
2023 SPECIFICATIONS

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.

Arthur G. Noiro Jr.
 Arthur G. Noiro Jr., P.E.
 District 04 Deputy Director

Jack Marchbanks
 Jack Marchbanks, PhD
 Director, Department of Transportation



LOCATION MAP

LATITUDE: 41°09'25" LONGITUDE: 81°26'20"



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

DESIGN DESIGNATION (BASED ON MS2 DATA)

CURRENT ADT (2022)	19,196
DESIGN HOURLY VOLUME (2022)	1,930
DIRECTIONAL DISTRIBUTION	0.62
TRUCKS (24 HOUR B&C)	383
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN PRINCIPAL ARTERIAL	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

YES

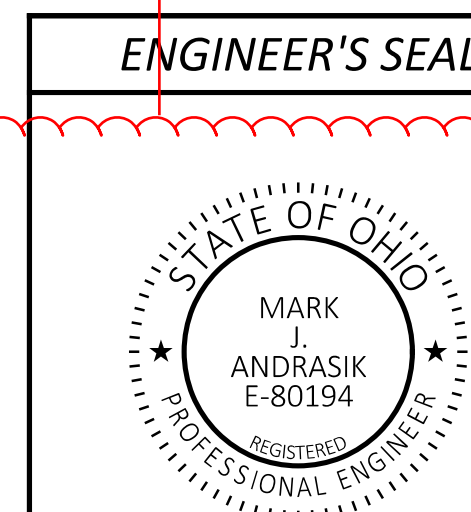
UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig

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

fixed signature



INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MT-98.22	1/17/20	TC-52.10	10/18/13	800-2023	4/21/23
BP-3.2	1/18/19	MT-98.28	1/17/20	TC-52.20	1/15/21	816	10/18/19
BP-5.1	7/15/22	MT-98.29	1/17/20	TC-64.10	1/20/23	821	4/20/12
BP-7.1	1/21/22	MT-99.20	4/19/19	TC-65.10	1/17/14	832	7/15/22
				TC-65.11	7/15/22	921	4/20/12
				TC-71.10	7/15/22		
DM-4.3	1/15/16	MT-101.90	7/17/20	TC-74.10	1/20/23		
DM-4.4	1/15/16	MT-102.10	1/17/20	TC-82.10	7/19/19		
				MT-105.10	1/17/20		
MT-95.31	7/19/19						
MT-95.32	4/19/19	TC-41.10	7/19/13				
MT-95.50	7/21/17	TC-41.20	10/18/13				
MT-98.10	1/17/20	TC-41.30	4/21/23				
MT-98.11	1/17/20	TC-41.40	10/18/13				
MT-98.20	4/19/19	TC-42.10	10/18/13				
				TC-42.20	10/18/13		

corrected SS 800

added special provision

SUM-59-7.95

MODEL: Sheet PAPER: 34x22 (in.) DATE: 8/7/2023 TIME: 9:19:57 AM USER: mandrasi pvc:\ohio\dot-pw-bentley.com\ohio\dot-pw-02\Documents\01 Active Projects\District 04\Summit\110743\400-Engineering\Foodway\Sheets\110743_GT001.dgn

TITLE SHEET

DESIGN AGENCY	
DESIGNER	MRS
REVIEWER	MAC 05-12-23
PROJECT ID	110743
SHEET	P.1
TOTAL	20

ITEM 611 – INLET RECONSTRUCTED TO GRADE, AS PER PLAN (SILVER LAKE)

THIS WORK SHALL INCLUDE THE RESETTling AND SECURING OF INLET TOPS, REPAIR AND/OR REPLACEMENT OF DAMAGED BRICK WITHIN 12" OF THE TOP OF THE INLETS, REPAIRS TO MORTAR, AND REPAIR/REPLACEMENT OF THE LINTEL UNDER THE PAVEMENT AS DIRECTED BY THE PROJECT ENGINEER. THIS WORK SHALL BE COORDINATED BETWEEN THE PROJECT ENGINEER, CONTRACTOR, AND VILLAGE OF SILVER LAKE (MARK LIPAN, 330-923-5233, MLIPAN@VILLAGEOFSILVERLAKE.COM)

THIS WORK SHALL TAKE PLACE AT THE FOLLOWING LOCATIONS:

- SR 59 @ 8.62 RT
- SR 59 @ 8.68 LT
- SR 59 @ 8.80 LT
- SR 59 @ 8.87 LT
- SR 59 @ 8.90 RT
- SR 59 @ 9.12 LT
- SR 59 @ 9.17 LT
- SR 59 @ 9.19 RT
- SR 59 @ 9.27 RT
- SR 59 @ 9.59 RT

THESE LISTED INLETS ARE NEAR THE FOLLOWING HOME ADDRESSES (NOTE: SUM-59 IS ALSO KNOWN AS KENT RD.):

- 2870 KENT RD.
- 2880 KENT RD.
- 2910 KENT RD.
- 2926 KENT RD.
- 2937 KENT RD.
- 2971 KENT RD. (ACROSS STREET)
- 3005 KENT RD. (ACROSS STREET)
- 3006 KENT RD.
- 3027 KENT RD.
- 3111 KENT RD.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

- ITEM 611 - INLET RECONSTRUCTED TO GRADE, AS PER PLAN, 10 EACH
- ITEM 611 - MISCELLANEOUS METAL, 500 LBS

ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A, AS PER PLAN

703.05 DO NOT USE ANY AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 254 IN THE CMS EXCEPT THE DEPTH SHALL VARY FROM 2" TO THE TOP OF THE BRICK OR CONCRETE, WHICHEVER IS FIRST. THIS WORK SHALL BE PERFORMED SO THAT THE BRICK BASE IS NOT DISTURBED. ALL EQUIPMENT, LABOR, TOOLS, AND OTHER INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

INTERSECTIONS

INTERSECTIONS WILL BE RESURFACED 2 FT. BEYOND THE EDGE LINE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR INDICATED IN THE PLAN. INTERSECTIONS SHALL BE PAVED AFTER COMPLETION OF THE SURFACE COURSE OR WITH THE MAINLINE PAVEMENT IF THIS CAN BE ACCOMPLISHED WITHOUT CHANGING THE VELOCITY AND DIRECTION OF THE PAVER. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1, SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASPHALT SURFACE COURSE.

CURB RAMPS

THE CURB RAMPS AT THE FOLLOWING INTERSECTIONS SHALL NOT BE REPLACED DUE TO THESE LOCATIONS BEING INCLUDED IN UPCOMING PROJECT PID 116990:

- SUM-59/SYCAMORE DR.
- SUM-59/SUM-91
- SUM-59/ORCHARD DR.
- SUM-59/HIWOOD AVE.
- SUM-59/CHARING CROSS DR.
- SUM-59/MARSH RD.
- SUM-59/FISHCREEK DR.

CROSSWALKS

ALL NEW CROSSWALKS SHALL BE HIGH VISIBILITY CROSSWALKS AS PER SCD TC-74.10 BETWEEN SLM 8.46 - 12.67. ALL OTHER NEW CROSSWALKS SHALL BE STANDARD CROSSWALKS AS PER SCD TC-74.10.

PAVEMENT OPERATION (SLM 9.56 - 12.67)
ALL PAVEMENT OPERATIONS AND FINAL STRIPING SHALL BE COMPLETED IN THE CITY OF STOW (SLM 9.56 - 12.67) NO LATER THAN 7/1/24.

added

ITEM 632 - DETECTOR LOOP, AS PER PLAN

THE CONTRACTOR SHALL CONTACT THE CITY OF STOW (330-689-2721) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE FOLLOWING INTERSECTIONS:

- SUM-59/OAK PARK DR. (1)
- SUM-59/ORCHARD DR (5)
- SUM-59/HIWOOD AVE (4)
- SUM-59/CHARRING CROSS DR (4)
- SUM-59/STOW GLEN ENTRANCE (7)
- SUM-59/HOBBY LOBBY ENTRANCE (6)
- SUM-59/MARSH RD (6)
- SUM-59/FISHCREEK RD (10)

LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED INTERMEDIATE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTORS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE SAME AS EXISTING. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS.

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS, AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

ITEM 632 - DETECTOR LOOP, AS PER PLAN, 43 EACH (POWERHEAD DETECTOR LOOP, 43 EACH)

TIME LIMITATION, CURB RAMP

THE MAXIMUM ALLOWABLE TIME FOR THE CONTRACTOR TO HAVE AN INDIVIDUAL CURB RAMP AND ASSOCIATED SIDEWALK LEADING INTO THE CURB RAMP OUT OF SERVICE FOR THE REMOVAL AND REPLACEMENT SHALL BE 14 CONSECUTIVE CALENDAR DAYS (THE TIME PERIOD INCLUDES ALL WORK AND CURING TIME PERIOD).

AT THE CONCLUSION OF CONSTRUCTING OF THE CURB RAMP AND PRIOR TO OPENING TO PEDESTRIAN TRAFFIC THE CONTRACTOR SHALL ENSURE THAT THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING BP-7.1 ARE MET. THE CONTRACTOR SHALL USE ASPHALT AS A WEDGE, OR SUBMIT ANOTHER METHOD APPROVED BY THE ENGINEER, TO ENSURE THE TRANSITION FROM THE CURB RAMP TO THE ROADWAY ARE PER STANDARD CONSTRUCTION DRAWING BP-7.1. ALL COSTS TO PERFORM THIS WORK SHALL BE INCIDENTAL TO THE ASSOCIATED PAY ITEMS FOR THE INSTALLATION OF THE CURB RAMP.

SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$1000 PER DAY PER AFFECTED RAMP THAT THE AFFECTED CURB RAMP REMAINS OUT OF SERVICE BEYOND 14 CONSECUTIVE CALENDAR DAYS.

ITEM SPECIAL - AS-BUILT CONSTRUCTION RECORD DRAWINGS

PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION RECORD-DRAWING PLANS. THE FORMAL AS-BUILT CONSTRUCTION RECORD-DRAWING SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTATION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION RECORD-DRAWING SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION RECORD-DRAWINGS.

THE CONTRACTOR'S VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL RECORD-DRAWING. THE CONTRACTOR'S VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTOR'S PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE).

IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE AS-BUILT CONSTRUCTION RECORD-DRAWINGS SHALL SHOW THE FOLLOWING:

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS, FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND LABELED ON THE RECORD-DRAWING PLAN IN TERMS OF STATION, OFFSET AND ELEVATION.
3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER THE SPECIFICATION (E.G., CONDUIT).
4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY AND SUBSUMMARIES.
5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 - PLAN PREPARATION.

NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION (ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.).

THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES APPEARING ON THEM.

TWO COPIES OF THE AS-BUILT CONSTRUCTION RECORD-DRAWINGS SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT CONSTRUCTION RECORD-DRAWINGS, THE ASSOCIATED ELECTRONIC FILES SHALL BE DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR. ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED AND THE FINAL ESTIMATE APPROVED.

PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE PROJECT ENGINEER.



AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND THE ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT THE FOLLOWING AERONAUTICAL STUDY NUMBERS ARE BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED:

- ASN 2023-AGL-9239-OE
- ASN 2023-AGL-9240-OE
- ASN 2023-AGL-9241-OE
- ASN 2023-AGL-9242-OE
- ASN 2023-AGL-9245-OE
- ASN 2023-AGL-9246-OE
- ASN 2023-AGL-9248-OE
- ASN 2023-AGL-9249-OE
- ASN 2023-AGL-9252-OE
- ASN 2023-AGL-9253-OE
- ASN 2023-AGL-9254-OE
- ASN 2023-AGL-9255-OE
- ASN 2023-AGL-9256-OE
- ASN 2023-AGL-9257-OE
- ASN 2023-AGL-9262-OE
- ASN 2023-AGL-9263-OE
- ASN 2023-AGL-9284-OE
- ASN 2023-AGL-9285-OE
- ASN 2023-AGL-9288-OE
- ASN 2023-AGL-9289-OE
- ASN 2023-AGL-9290-OE
- ASN 2023-AGL-9291-OE
- ASN 2023-AGL-9292-OE
- ASN 2023-AGL-9293-OE
- ASN 2023-AGL-9294-OE
- ASN 2023-AGL-9295-OE

added

**FAA REQUIRED PROJECT COORDINATION FOR USE OF DUMP TRUCKS
SLM 11.18 TO SLM 11.71**

IT IS REQUIRED THAT THE MANAGER OF KENT STATE UNIVERSITY (330-672-1943) BE NOTIFIED AT LEAST 3 BUSINESS DAYS PRIOR TO THE TEMPORARY STRUCTURE BEING ERECTED AND AGAIN WHEN THE STRUCTURE IS REMOVED FROM THE SITE.

DUMP TRUCKS ARE TO BE MARKED/LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 70/7460-1, OBSTRUCTION MARKING AND LIGHTING, FLAGS/RED LIGHTS - CHAPTERS 3 (MARKED), 4, 5 (RED), 14 (TEMPORARY), & 15.

FAA ADVISORY CIRCULAR 70/7460-1M OBSTRUCTION LIGHTING... REPORT ANY FAILURE OR MALFUNCTION THAT LASTS MORE THAN THIRTY (30) MINUTES AND AFFECTS A TOP LIGHT OR FLASHING OBSTRUCTION LIGHT, REGARDLESS OF ITS POSITION, SHOULD BE REPORTED IMMEDIATELY TO (877) 487-6867 SO A NOTICE TO AIR MISSIONS (NOTAM) CAN BE ISSUED. AS SOON AS THE NORMAL OPERATION IS RESTORED, NOTIFY THE SAME NUMBER.

Added plan page

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235

GENERAL NOTES

DESIGN AGENCY



DESIGNER

MRS

REVIEWER

MAC 05-12-23

PROJECT ID

110743

SHEET TOTAL

P.4A | 20

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. 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.
- 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. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.

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

6. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONE [1] MILE.

7. 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

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

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

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

11. THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND SUBSEQUENTLY REMOVE WORK ZONE MARKING SIGNS AND THEIR SUPPORTS WITHIN THE WORK LIMITS. THESE SIGNS INCLUDE "NO EDGE LINES", "DO NOT PASS", AND "PASS WITH CARE". ALL OTHER SIGNS WILL BE INCIDENTAL TO THE LUMP SUM PAY ITEM 614 MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED IN THE PLANS. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS AS PER CMS 614.04.

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

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

- PHASE I - PLANNED SURFACE
 - 614, WORK ZONE CENTER LINE, CLASS I, 4.86 MILE
 - 614, WORK ZONE LANE LINE, CLASS I, 4", 9.43 MILE
 - 614, WORK ZONE STOP LINE, CLASS I, 1,000 FT
 - 614, WORK ZONE MARKING SIGN, 20 EACH
- PHASE II - INTERMEDIATE COURSE
 - 614, WORK ZONE CENTER LINE, CLASS I, 4.86 MILE
 - 614, WORK ZONE LANE LINE, CLASS I, 4", 9.43 MILE
 - 614, WORK ZONE STOP LINE, CLASS I, 1,000 FT
- PHASE III - SURFACE COURSE
 - 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT, 4.86 MILE
 - 614, WORK ZONE STOP LINE, CLASS I, 1,000 FT
 - 614, WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT, 9.43 MILE

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.

combined with "Maintenance of Traffic" note

TRAFFIC CONTROL INSPECTOR

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

ADVANCED NOTICE TO PAVE

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

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$2,500 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

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.

DROPOFFS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES, AND ASPHALT SURFACE COURSE AND SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS, PER THE NOTES ON SHEET XX, SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 – MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM 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 CLOSURE	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS & > 12 HOURS	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 CHANGE	N/A	14 CALENDAR 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 TABLE.

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

- NEW YEAR'S (OBSERVED), GENERAL/REGULAR ELECTION DAY ((NOV) TOTAL SOLAR ECLIPSE (4/8/24), THANKSGIVING, MEMORIAL DAY CHRISTMAS (OBSERVED), FOURTH OF JULY (OBSERVED) LABOR DAY, (OTHER HOLIDAY OR SPECIAL EVENT)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MODAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY (TOTAL SOLAR ECLIPSE) 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY (GEN./REG. ELECTION) 5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY (THANKSGIVING ONLY) 6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

[NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.]

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

LANE VALUE CONTRACT TABLE			
DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME PERIOD
SR-59 (SLM 7.950 - SLM 12.666)	AS PER "ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)" NOTE ABOVE.	PER LANE / PER MINUTE	\$75
SR-59 (SLM 7.950 - SLM 8.456)	AS PER "CITY OF CUYAHOGA FALLS" NOTE	PER LANE / PER MINUTE	\$75

corrected

ASPHALT PAVING LIMITATION


THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

CITY OF CUYAHOGA FALLS (SLM 7.95 - 8.46)

ALL LANES SHALL BE OPEN AND NO WORK SHALL TAKE PLACE IN THE CITY OF CUYAHOGA FALLS BETWEEN 3PM FRIDAYS AND 8AM MONDAYS UNLESS WRITTEN PERMISSION HAS BEEN GRANTED BY THE CITY OF CUYAHOGA FALLS AND PROJECT ENGINEER.

SHEET NUM.											PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	9	10	14	15	16	19		01/NHS/05/CUYF	02/NHS/05/CUYF	03/NHS/05	04/NHS/06/SLAK	05/NHS/05/STOW	06/MPO/05/STOW						
ROADWAY																						
							807	1,629	6,525			807	1,629			6,525	202	30000	8,961	SF	WALK REMOVED	
							75	135	911			75	135			911	202	32000	1,121	FT	CURB REMOVED	
212												25		17		170	203	10000	212	CY	EXCAVATION	
							151	521	2,615			151	521			2,615	608	10000	3,287	SF	4" CONCRETE WALK	
							656	1,108	2,058			656	1,108			2,058	608	52000	3,822	SF	CURB RAMP	
43											8		1		34		623	39501	43	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	3
							9					9					625	31600	9	EACH	PULL BOX, MISC.: ADJUSTED TO GRADE	14
	LS														LS		SPECIAL	69021000	LS		AS-BUILT CONSTRUCTION RECORD DRAWINGS	4
EROSION CONTROL																						
											1,000		1,000		1,000		832	30000	3,000	EACH	EROSION CONTROL	
DRAINAGE																						
29											12				17		611	98630	29	EACH	CATCH BASIN ADJUSTED TO GRADE	
7												3				4	611	98634	7	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
	10													10			611	99155	10	EACH	INLET RECONSTRUCTED TO GRADE, AS PER PLAN	4
								1								1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
69													1		50		611	99655	69	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	3
1,800	500										600	150		500	850	200	SPECIAL	61199820	2,300	LB	MISCELLANEOUS METAL	3
PAVEMENT																						
3,800												300		500		3,000	251	01000	3,800	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
7,500											900			600		6,000	252	01500	7,500	FT	FULL DEPTH PAVEMENT SAWING	
1,250											150			100		1,000	253	01000	1,250	SY	PAVEMENT REPAIR	
					137,877	5,697					20,632	3,139	27,261		92,542		254	01001	143,574	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T = 2")	4
212												25		17		170	304	20000	212	CY	AGGREGATE BASE	
					20,682	855					3,095	471	4,090		13,881		407	20000	21,537	GAL	NON-TRACKING TACK COAT	4
						18					18						408	10001	18	GAL	PRIME COAT, AS PER PLAN	4
					2,873	119					430	66	568		1,928		424	13101	2,992	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A, (449), AS PER PLAN	4
					4,788	134					674	105	943		3,200		441	50200	4,922	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
							28						28				609	12000	28	FT	COMBINATION CURB AND GUTTER, TYPE 2	
							65	107	911			65	107			911	609	26000	1,083	FT	CURB, TYPE 6	
					3						3						617	10101	3	CY	COMPACTED AGGREGATE, AS PER PLAN	3
WATER WORK																						
81											34				47		638	10801	81	EACH	VALVE BOX ADJUSTED TO GRADE, AS PER PLAN	3
TRAFFIC CONTROL																						
											0.1						646	10000	0.1	MILE	EDGE LINE, 4"	
											0.96	0.05	2.21		6.21		646	10100	9.43	MILE	LANE LINE, 4"	
											0.48	0.17	1.11		3.1		646	10200	4.86	MILE	CENTER LINE	
									4,050		1,430	410			2,210		646	10310	4,050	FT	CHANNELIZING LINE, 12"	
									1,000		250	30	90		630		646	10400	1,000	FT	STOP LINE	
											590						646	10510	590	FT	CROSSWALK LINE, 12"	
											3,110		390		2,720		646	10520	3,110	FT	CROSSWALK LINE, 24" → adjusted quantity	
											900	400	150		350		646	10600	900	FT	TRANSVERSE/DIAGONAL LINE	
											57						646	10800	57	SF	ISLAND MARKING	
											8				8		646	20110	8	EACH	SCHOOL SYMBOL MARKING, 96"	
											63	18	6		39		646	20300	63	EACH	LANE ARROW	
											2						646	20320	2	EACH	WRONG WAY ARROW	
											10				8		646	20370	10	EACH	TWO WAY LEFT TURN ARROW → added	
											2						646	20410	2	EACH	WORD ON PAVEMENT, 96"	
											180				180		646	20502	180	FT	DOTTED LINE, 4" → added	
TRAFFIC SIGNALS																						
	43										1				42		632	26501	43	EACH	DETECTOR LOOP, AS PER PLAN	4
TRAFFIC SIGNALS ALTERNATES																						
11											11						632	26501	11	EACH	DETECTOR LOOP, AS PER PLAN (ALTERNATE 1)	3
2											2						816	30001	2	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN (GRIDSMA) (ALTERNATE 2)	3
LS											LS						816	30100	LS		TRAINING FOR VIDEO DETECTION SYSTEM (ALTERNATE 2)	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 MRS
 REVIEWER
 MAC 05-12-23
 PROJECT ID
 110743
 SHEET
 P.7
 TOTAL
 20


SUM-59-7.95

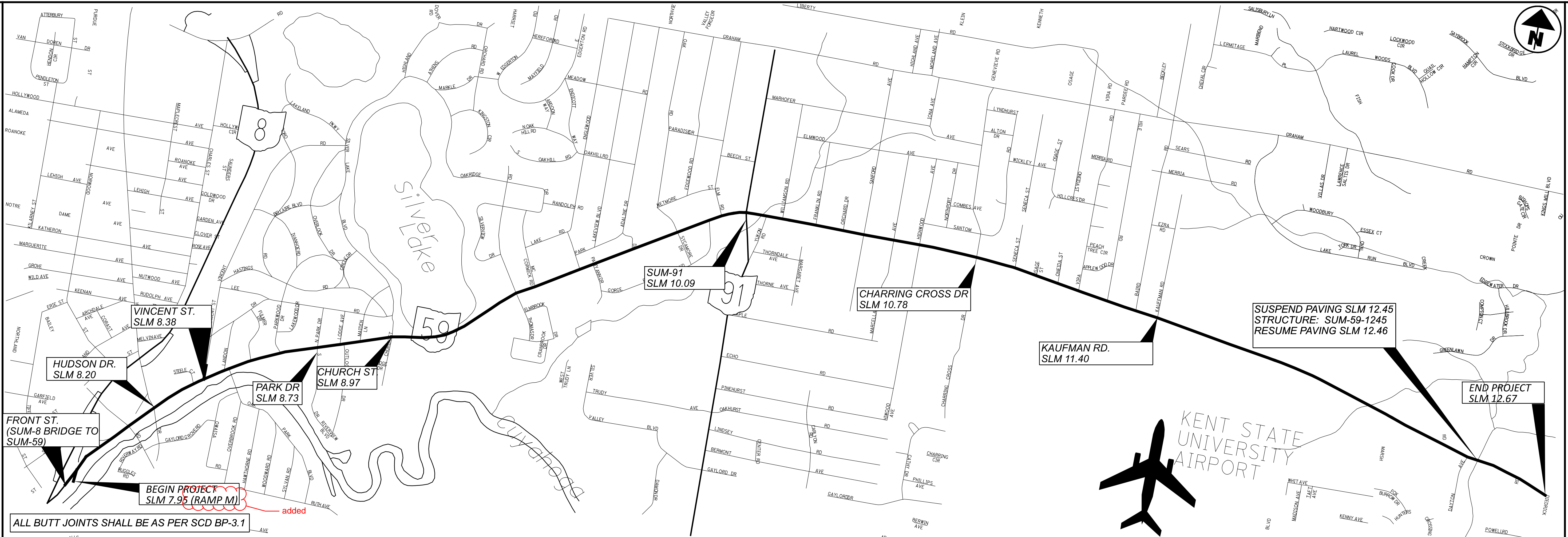
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SHEET NUM.											PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
3	4	5	6	9	10	14	15	16	19		01/NHS/05/CUYF	02/NHS/05/CUYF	03/NHS/05	04/NHS/06/SLAK	05/NHS/05/STOW	06/MPO/05/STOW							
			200																			MAINTENANCE OF TRAFFIC	
		20																				LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			6																			WORK ZONE MARKING SIGN	6
		18.86																				PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
		9.43																				WORK ZONE LANE LINE, CLASS I, 4"	
																						WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
		9.72																				WORK ZONE CENTER LINE, CLASS I	
		4.86																				WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
		1,940																				WORK ZONE STOP LINE, CLASS I	
		970																				WORK ZONE STOP LINE, CLASS III, 642 PAINT	
																						INCIDENTALS	
																						MAINTAINING TRAFFIC	
																						FIELD OFFICE, TYPE B	
																						CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																						MOBILIZATION	

split quantity into plan splits

added

GENERAL SUMMARY
DESIGN AGENCY

DESIGNER MRS
REVIEWER MAC 05-12-23
PROJECT ID 110743
SHEET P.8 TOTAL 20



SLM RANGE		TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T = 2")	407 NON-TRACKING TACK COAT @0.06 GAL/SY	407 NON-TRACKING TACK COAT @ 0.09 GAL/SY	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (T = 1.25")	424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A, (449), AS PER PLAN (T = 0.75")																	
													FT	FT	SQ YD	SQ YD	SY	GAL	GAL	CY	CY								
SR 59																													
7.95	TO	7.99	1	211.20	38.00	891.73		891.73	53.50	80.26	30.96	18.58																	
7.99	TO	8.05	1	316.80	62.00	2182.40		2182.40	130.94	196.42	75.78	45.47																	
8.05	TO	8.12	1	369.60	72.00	2956.80		2956.80	177.41	266.11	102.67	61.60																	
8.12	TO	8.23	1	580.80	72.00	4646.40		4646.40	278.78	418.18	161.33	96.80																	
8.23	TO	8.41	1	950.40	62.00	6547.20		6547.20	392.83	589.25	227.33	136.40																	
8.41	TO	8.46	1	264.00	53.00	1554.67		1554.67	93.28	139.92	53.98	32.39																	
8.46	TO	9.56	1	5808.00	42.00	27104.00		27104.00	1626.24	2439.36	941.11	564.67																	
9.56	TO	10.02	1	2428.80	41.00	11064.53		11064.53	663.87	995.81	384.19	230.51																	
10.02	TO	10.28	1	1372.80	58.00	8846.93		8846.93	530.82	796.22	307.19	184.31																	
10.28	TO	11.65	1	7233.60	49.00	39382.93		39382.93	2362.98	3544.46	1367.46	820.48																	
11.65	TO	11.71	1	316.80	53.00	1865.60		1865.60	111.94	167.90	64.78	38.87																	
11.71	TO	12.37	1	3495.36	58.00	22525.65		22525.65	1351.54	2027.31	782.14	469.28																	
12.37	TO	12.42	1	253.44	55.00	1548.80		1548.80	92.93	139.39	53.78	32.27																	
12.42	TO	12.45	1	158.40	48.00	844.80		844.80	50.69	76.03	29.33	17.60																	
12.45	TO	12.46	1																										
12.46	TO	12.67	1	1108.80	48.00	5913.60		5913.60	354.82	532.22	205.33	123.20																	
SUBTOTALS								137876.05	8272.56	12408.84	4787.36	2872.42																	
TOTALS CARRIED TO GENERAL SUMMARY								137877	8273	12409	4788	2873																	

PAVEMENT SUBSUMMARY

DESIGN AGENCY



DESIGNER
MRS

REVIEWER

MAC 05-12-23

PROJECT ID

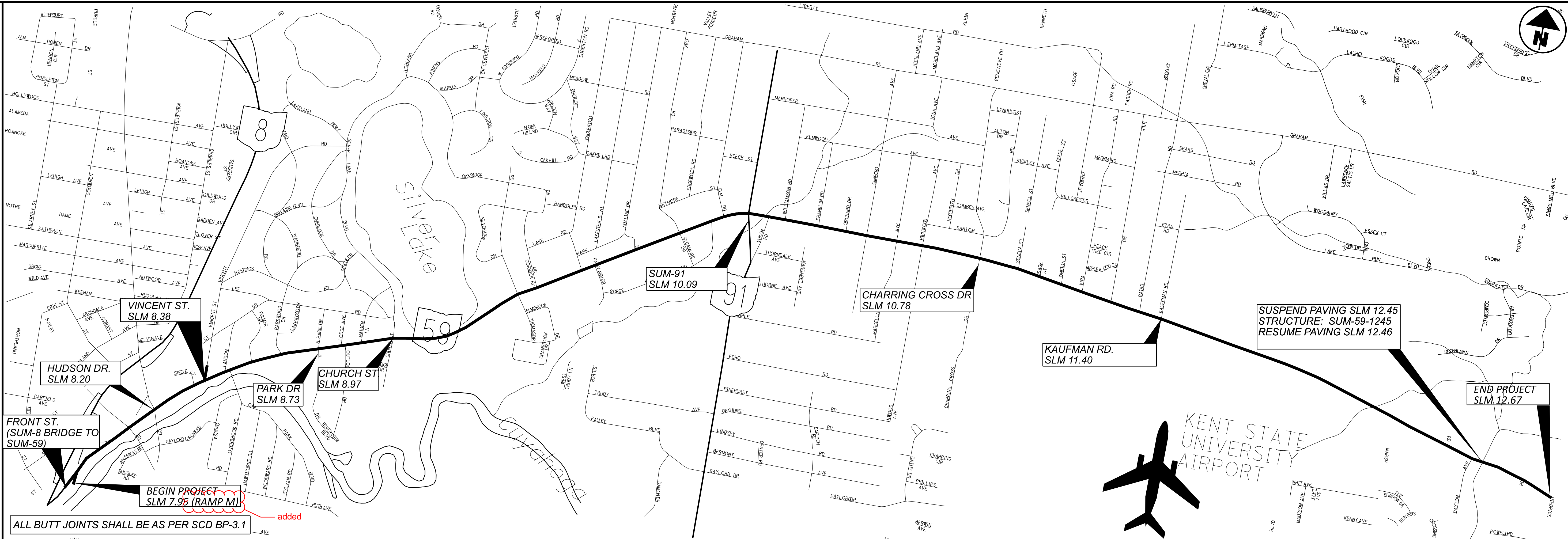
110743

SHEET

P.9

TOTAL

20



SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T = 2")		NON-TRACKING TACK COAT @0.06 GAL/SY		NON-TRACKING TACK COAT @ 0.09 SY/GAL		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (T = 1.25")		FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A, (449), AS PER PLAN (T = 0.75")		PRIME COAT, AS PER PLAN @ 0.04 GAL/SY		COMPACTED AGGREGATE, AS PER PLAN (T = 2")				
							SY	GAL	GAL	CY	CY	GAL	CY										
SIDE STREETS																							
HUDSON DR. (SOUTH LEG)	1		107.00	63.00	749.00		749.00	44.94	67.41	26.01	15.60												
HUDSON DR. (NORTH LEG)	1		80.00	87.00	773.33		773.33	46.40	69.60	26.85	16.11												
OAK PARKS BLVD.	3		35.00	27.00	105.00		105.00	6.30	9.45	3.65	2.19												
VINCENT ST.	1		30.00	31.00	103.33		103.33	6.20	9.30	3.59	2.15												
FRONT ST.	1		300.00	36.00	1200.00		1200.00	72.00	108.00	41.67	25.00												
INTERSECTIONS																							
7.95	TO	8.46	1	VARIES	2.00	1148.90	1148.90	68.93	103.40	13.30	23.94												
8.46	TO	9.56	1	VARIES	2.00	156.59	156.59	9.40	14.09	1.81	3.26												
9.56	TO	12.67	1	VARIES	2.00	548.86	548.86	32.93	49.40	6.35	11.43												
RAMPS																							
RAMP M	2					703.33	703.33	42.20	63.30	8.14	14.65	17.78	2.47										
RAMP L	3					208.33	208.33	12.50	18.75	2.41	4.34												
SUBTOTALS							5696.68	341.80	512.70	133.77	118.68	17.78	2.47										
TOTALS CARRIED TO GENERAL SUMMARY							5697	342	513	134	119	18	3										

PAVEMENT SUBSUMMARY

DESIGN AGENCY

DESIGNER: MRS
 REVIEWER: MAC
 PROJECT ID: 05-12-23
 SHEET: 110743
 TOTAL: P.10 | 20

AUXILIARY

CTY	ROUTE LOCATION	TRUE LOG	CHANNEL LINE FT	STOP LINE FT	CROSS WALK LINES, 12" FT	TRANSVERSE DIAGONAL LINES		ISLAND MARKING SQ FT	SYMBOL MARKINGS			LANE ARROWS				WORD ON PVMT ONLY		CROSS WALK LINES, 24" FT	COMMENTS
						WHITE FT	YELLOW FT		RxR EACH	72" EACH	96" EACH	TURN LEFT EACH	TURN RIGHT EACH	2-WAY EACH	COMB. EACH	72" EACH	96" EACH		
SUM	~500' WEST OF BAILEY RD	8.000				130													
SUM	BAILEY RD	8.110	350	60	130														
SUM	HUDSON DR	8.210	1080	190	390		50												
SUM	~600' EAST OF HUDSON DR	8.330																	
SUM	VINCENT ST	8.390			70			57											
SUM	OAK PARK BLVD	8.460		50														100	
SUM	SILVER LAKE BLVD	8.950		40														180	
SUM	HARRIET RD	9.350																110	
SUM	PARK DR.	9.740																	
SUM	SYCAMORE DR	9.880		40														90	
SUM	DARROW RD (SR-91)	10.090	750	90														360	
SUM	WILLIAMSON RD	10.200	130				60											40	
SUM	FRANKLIN RD	10.300	50															40	
SUM	ORCHARD DR	10.380		50														150	
SUM	SANFORD AVE	10.450	50															40	
SUM	MARCELLA AVE	10.540																90	
SUM	HIWOOD AVE	10.620		50														240	
SUM	CHARRING CROSS DR	10.790		50														200	
SUM	ONEIDA ST	11.050																30	
SUM	VIRA RD	11.120																40	
TOTAL			2410	620	590	130	260	57			8	20	2	2	4		1	1710	


added

AUXILIARY

CTY	ROUTE LOCATION	TRUE LOG	CHANNEL LINE FT	STOP LINE FT	CROSS WALK LINES, 24" FT	TRANSVERSE DIAGONAL LINES		ISLAND MARKING SQ FT	SYMBOL MARKINGS			LANE ARROWS				WORD ON PVMT ONLY		DOTTED LINES FT	COMMENTS
						WHITE FT	YELLOW FT		RxR EACH	72" EACH	96" EACH	TURN LEFT EACH	TURN RIGHT EACH	WRONG WAY EACH	2-WAY EACH	72" EACH	96" EACH		
SUM	BAIRD RD	11.290			40														
SUM	KAUFFMAN RD	11.360			40														
SUM	TARGET W ENTRANCE	11.680	230	70	330		120												
SUM	TARGET E ENTRANCE	11.770	210	70	160														
SUM	STOW-KENT SHOPPING CENTER	11.930	290	70	250														
SUM	MARSH RD	12.010	200	70	210														
SUM	FISHCREEK RD	12.300	300	70	280													180	
SUM	DAYTON AVE	12.370			40		170												
SUM	VERNER RD	12.550			50														
SUM	RAMP W (SR 8 NB TO SR 59 EB)	7.950					70							2					
SUM	VINCENT ST.			30															
SUM	FRONT ST.		120																
SUM	HUDSON DR. (SOUTH)		200																
SUM	HUDSON DR. (NORTH)		90															1	
TOTAL			1640	380	1400		510					36	1	2	8		1	180	

added

DESIGN AGENCY



DESIGNER
MRS

REVIEWER
AJN 05-08-23

PROJECT ID
110743

SHEET TOTAL
P.20 | 20