

GENERAL

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

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

BREEZELINE
 105 BLAZE INDUSTRIAL PARKWAY
 BERE, OH 44017
 ATTN: LARRY BURRUEL
 CELL: 440 915-9256
 EMAIL: LARRY.BURRUEL@WOINC.COM

ODOT-D12 TRAFFIC
 5500 TRANSPORTATION BLVD.
 GARFIELD HEIGHTS, OH 44125
 ATTN: DAVID NIMRICHTER
 PHONE: 216-584-2296
 EMAIL: DAVID.NIMRICHTER@DOT.OHIO.GOV

CITY OF BEACHWOOD
 23355 MERCANTILE RD.
 BEACHWOOD, OH 44122
 ATTN: CHRIS ARRIETTA
 PHONE: 216-292-1922

EVERSTREAM
 1228 EUCLID AVENUE, STE 250
 CLEVELAND, OHIO 44115
 ATTN: GIO REILLO
 OFFICE: 216-905-0780
 CELL: 216-905-0780
 EMAIL: GREILLO@EVERSTREAM.NET

CEI FIRST ENERGY
 6896 MILLER RD, STE 101
 BRECKSVILLE, OH 44141
 ATTN: JOHN M. ZASSICK
 PHONE: 440-546-8706
 EMAIL: JMZASSICK@FIRSTENERGYCORP.COM

OHIO VALLEY ENERGY SYSTEMS
 200 VICTORIA RD, #4
 YOUNGSTOWN, OH 44515
 ATTN: G MILLER
 PHONE: 330-799-2268
 EMAIL: GMILLER@OV-ENERGY.COM

CITY OF LYNDHURST
 CHAGRIN VALLEY ENGINEERING
 2299 FORBES RD, STE B
 CLEVELAND, OH 44146
 ATTN: JEFFREY FILARSKI,
 CITY ENGINEER
 PHONE: 440-399-0810
 EMAIL: FILARSKI@CVELIMITED.COM

CHARTER COMMUNICATIONS
 7820 DIVISION DR.
 MENTOR, OH 44060
 ATTN: EMIL SYMISTER
 PHONE: 216-575-8016
 x12165551158
 EMAIL: EMIL.SYMISTER@CHARTER.COM

CITY OF CLEVELAND
 DIVISION OF WATER
 1201 LAKESIDE AVE
 CLEVELAND, OH, 44114
 ATTN: FRED ROBERTS
 PHONE: 216-664-244
 x75590
 EMAIL: FRED.ROBERTS@CLEVELANDWATER.COM

ZAYO FIBER SOLUTIONS
 4199 KINROSS LAKES PKWY STE 10
 RICHFIELD, OH 44286
 PHONE: 234-281-0025
 EMAIL: DAVE.GULASKA@ZAYO.COM

AT&T
 13630 LORAIN AVE
 2ND FLOOR
 CLEVELAND, OH 44111
 ATTN: JAMES JANIS
 DESIGN MANAGER
 PHONE: 216-476-6142
 FAX: 216-476-6013
 EMAIL: PJ8191@ATT.COM

DOMINION ENERGY OHIO
 320 SPRINGSIDE DR., SUITE 320
 AKRON, OHIO 44333
 PHONE: 330-664-2409
 EMAIL: RELOCATION@DOMINIONENERGY.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

EXISTING PLANS

EXISTING PLANS FOR THE PROJECT CORRIDOR MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, WORK HOURS WILL BE RESTRICTED TO 7:00 AM TO 7:00 PM.

THE CONTRACTOR SHALL APPLY TO THE MUNICIPALITY/MUNICIPALITIES IN WHICH THE WORK IS BEING PERFORMED TO PERFORM NIGHT TIME WORK. IN THE EVENT A NOISE VARIANCE IS NOT GRANTED, WORK SHALL COMMENCE DURING DAY TIME HOURS AT NO ADDITIONAL COST. ANY ADDITIONAL MAINTENANCE OF TRAFFIC COST SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN. NO SEPARATE PAYMENT WILL BE MADE.

DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE NOISE LEVEL RESULTING FROM CONSTRUCTION SHALL BE WITHIN THE LIMITS SPECIFIED IN OSHA REGULATIONS AND IN ALL LOCAL ORDINANCES.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
 GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
 ELLIPSOID: GRS80
 MAP PROJECTION: LAMBERT CONFORMAL CONIC
 COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE (3401) (EPOCH 2020.0000)
 COMBINED SCALE FACTOR: 0.99992012
 ORIGIN OF COORDINATE SYSTEM: 0,0

ORTHOMETRIC HEIGHT OF MONUMENT CP03 USED AS THE BASIS FOR ELEVATIONS DETERMINED FOR PROJECT CONTROL POINTS AND BENCHMARKS. OTHER EXISTING CONTROL MONUMENT ELEVATIONS DETERMINED BY CONVENTIONAL OR GNSS SURVEY METHODS.

ALL WORK PERFORMED BY ENGINEERING ASSOCIATES, INC. AND INCLUDED IN THE SURVEY MASTER REPORT DATED 02/03/2022.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

RIGHT OF WAY

ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY.

EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC AND CONTRACTOR'S ATTENTION IS DIRECTED TO 614.03. IN ADDITION THE FOLLOWING PROVISIONS SHALL APPLY:

1. ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAYS.
2. THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 619, THE CONTRACTOR SHALL FURNISH AND SET UP A WI-FI ROUTER MEETING THE REQUIREMENTS OF IEEE 802.11AC FOR THE EXCLUSIVE USE OF THE DEPARTMENT.

ALL OTHER FIELD OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF TYPE C FIELD OFFICE.

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN 8 MONTHS

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF THE SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR -DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE, THE LANE AND SHOULDER CONFIGURATION OF THE ROADWAY THAT PASSES BELOW THE BRIDGE. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF AN OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP SITE:

HTTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH/CUY-113156

PAVEMENT

PLANING REQUIREMENTS

THE DURATION OF TIME BETWEEN PLANING THE ASPHALT AND PLACING THE ASPHALT OVERLAY SHALL BE KEPT TO A MINIMUM. IN NO INSTANCE SHALL THIS TIME EXCEED 10 CALENDAR DAYS. THE TIME LIMIT SHALL BEGIN ON THE FIRST DAY OF PLANING AND SHALL CONTINUE BASED ON CALENDAR DAYS, MINUS ANY WEATHER DAYS, UNTIL COMPLETION OF THE ASPHALT CONCRETE SURFACE COURSE. THIS IS TO ENSURE THAT THE POTENTIAL DEGRADATION OF THE EXPOSED PAVEMENT DUE TO TRAFFIC IS KEPT TO A MINIMUM. THIS REQUIREMENT APPLIES TO BOTH MAINLINE AND RAMPS ALIKE.

IN THE EVENT THAT THE TIME BETWEEN EXPOSING THE EXISTING PAVEMENT AND PLACING THE ASPHALT SURFACE COURSE EXCEEDS 10 CALENDAR DAYS, LIQUIDATED DAMAGES AS PER 108.07 OF THE CMS SHALL BE ASSESSED.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.15, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDED BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

LONGITUDINAL JOINTS (FLEXIBLE PAVEMENT)

LONGITUDINAL JOINTS BETWEEN A PAVEMENT LANE AND ADJOINING SHOULDER OR SPEED CHANGE LANE, AND BETWEEN A SPEED CHANGE LANE AND THE ADJOINING SHOULDER SHALL BE MADE THE SAME DAY. ALL LONGITUDINAL JOINTS SHALL BE HOT WITH THE EXCEPTION OF ONE COLD JOINT PER ROADWAY. COLD JOINTS CREATED AT THE PHASE JOINTS BETWEEN CONSTRUCTION SEASONS 1 AND 2 WILL NOT BE COUNTED AGAINST THE ALLOWABLE COLD JOINT CRITERIA. LOCATE THE COLD JOINT ALONG THE CENTERLINE OR A LANE LINE. LONGITUDINAL JOINT LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER. EACH RAMP SHALL HAVE A MAXIMUM OF ONE LONGITUDINAL COLD JOINT LOCATED APPROXIMATELY HALFWAY ACROSS THE RAMP.

PROFILE AND ALIGNMENT

IN AREAS OF RESURFACING PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT UNLESS SHOWN OTHERWISE IN THE PLAN SET. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF 1.5 INCHES AS SHOWN ON THE TYPICAL SECTIONS).

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A

THIS ITEM SHALL BE USED FOR THE REPAIR OF UNSOUND, COLD-PATCH, OR POP-OUT AREAS OF LONGITUDINAL JOINTS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PERFORMED PRIOR TO THE PLANING OPERATION. THE DEPTH OF THE REPAIR SHALL BE 6.5" BELOW THE TOP OF THE EXISTING ASPHALT SURFACE. THE WIDTH OF THE REPAIR SHALL BE 12" CENTERED OVER THE EXISTING JOINT.

USE REPLACEMENT MATERIALS CONFORMING TO THE REQUIREMENTS OF ITEM 442, 19MM.

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

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A 1190 SY

DESIGN AGENCY



DESIGNER
AFG

REVIEWER
KKP 01/05/23

PROJECT ID
113156

SHEET TOTAL
19 | 233

SEQUENCE OF CONSTRUCTION

PRE-PHASE 1A (NO SHEETS PROVIDED)

WORK THIS PHASE:
IR 271 NORTHBOUND LOCAL LANES
-REMOVE EXISTING RUMBLE STRIPS ON OUTSIDE SHOULDER IN ACCORDANCE WITH THE NOTES ON SHEET 26.
-REMOVE EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH PHASE 1A LANE CONFIGURATIONS AND STRIPE PROPOSED PHASE 1A WORK ZONE PAVEMENT MARKINGS.
-REMOVE EXISTING OVERHEAD SIGNAGE RELATED TO THE CROSSOVER RAMP FROM THE LOCAL LANES TO THE EXPRESS LANES.

IR 271 NORTHBOUND EXPRESS LANES
-REMOVE EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH PHASE 1A LANE CONFIGURATIONS AND STRIPE PROPOSED PHASE 1A WORK ZONE PAVEMENT MARKINGS.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES
-USE OFF PEAK LANE CLOSURES WITH DRUMS PER ODOT D12 PERMITTED LANE CLOSURE SCHEDULE (PLCS) AND MT SERIES STANDARD CONSTRUCTION DRAWINGS.

IR 271 NORTHBOUND EXPRESS LANES
-USE OFF PEAK LANE CLOSURES WITH DRUMS PER ODOT D12 PERMITTED LANE CLOSURE SCHEDULE (PLCS) AND MT SERIES STANDARD CONSTRUCTION DRAWINGS.

PHASE 1A (SEE SHEETS 38-46)

WORK THIS PHASE:
IR 271 NORTHBOUND LOCAL LANES
-REMOVE PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE INSIDE OF THE LOCAL LANES.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-REMOVE EXISTING NORTHBOUND MEDIAN DRAINAGE AS REQUIRED IN PLANS.

-BUILD PORTIONS OF NEW NORTHBOUND PAVEMENT AND INSIDE SHOULDERS INCLUDING THE PERMANENT ASPHALT SURFACE COURSE, NEW DRAINAGE AND MEDIAN GRADING.

IR 271 NORTHBOUND EXPRESS LANES
-REMOVE PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE OUTSIDE OF THE EXPRESS LANES.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-REMOVE EXISTING NORTHBOUND MEDIAN DRAINAGE AS REQUIRED IN PLANS.

-BUILD PORTIONS OF NEW NORTHBOUND PAVEMENT AND OUTSIDE SHOULDERS INCLUDING THE PERMANENT ASPHALT SURFACE COURSE, NEW DRAINAGE AND MEDIAN GRADING.

NB CROSSOVER RAMP 1 (SOUTH OF FAIRMOUNT)
-REMOVE EXISTING PAVEMENT AND DRAINAGE FOR EXISTING RAMP CROSSING FROM LOCAL LANES TO THE EXPRESS LANES.
-BUILD NEW RAMP CROSSING FROM EXPRESS LANES TO LOCAL LANES INCLUDING THE PERMANENT ASPHALT SURFACE COURSE.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES
-MAINTAIN 3 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES EAST.

IR 271 NORTHBOUND EXPRESS LANES
-MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES WEST.

NB CROSSOVER RAMP 1 (SOUTH OF FAIRMOUNT)
-RAMP CLOSED THIS PHASE.

SEQUENCE OF CONSTRUCTION (CONT)

PHASE 1B (SEE SHEETS 47-52)

NO WORK IN THIS PHASE SHALL BEGIN BEFORE COMPLETION OF PHASE 1A WORK.

WORK THIS PHASE:
IR 271 NORTHBOUND LOCAL LANES
-REMOVE REMAINING PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE INSIDE OF THE LOCAL LANES.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-REMOVE EXISTING NORTHBOUND MEDIAN DRAINAGE AS REQUIRED IN PLANS.

-BUILD REMAINING PORTIONS OF NEW NORTHBOUND PAVEMENT AND INSIDE SHOULDERS INCLUDING THE PERMANENT ASPHALT SURFACE COURSE, NEW DRAINAGE AND MEDIAN GRADING.

IR 271 NORTHBOUND EXPRESS LANES
-REMOVE REMAINING PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE OUTSIDE OF THE EXPRESS LANES.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-REMOVE EXISTING NORTHBOUND MEDIAN DRAINAGE AS REQUIRED IN PLANS.

-BUILD REMAINING PORTIONS OF NEW NORTHBOUND PAVEMENT AND OUTSIDE SHOULDERS INCLUDING THE PERMANENT ASPHALT SURFACE COURSE, NEW DRAINAGE AND MEDIAN GRADING.

NB CROSSOVER RAMP 2 (NORTH OF FAIRMOUNT)
-REMOVE EXISTING PAVEMENT AND DRAINAGE FOR EXISTING RAMP CROSSING FROM EXPRESS LANES TO THE LOCAL LANES.
-BUILD NEW RAMP CROSSING FROM LOCAL LANES TO EXPRESS LANES INCLUDING THE PERMANENT ASPHALT SURFACE COURSE.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES
-MAINTAIN 3 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES EAST.

IR 271 NORTHBOUND EXPRESS LANES
-MAINTAIN 2 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES WEST.

NB CROSSOVER RAMP 1 (SOUTH OF FAIRMOUNT)
-RAMP OPEN TO TRAFFIC FROM EXPRESS LANES TO LOCAL LANES.

NB CROSSOVER RAMP 2 (NORTH OF FAIRMOUNT)
-RAMP CLOSED THIS PHASE.

INTERIM COMPLETION DATE
-ALL WORK IN PHASE 1B SHALL BE COMPLETED BY OCTOBER 15, 2025. FAILURE TO COMPLETE PHASE 1B WORK AND RETURN TRAFFIC TO ITS ORIGINAL OR FINAL POSITION PER THE NOTES ON SHEET 22 BY THIS DATE WILL RESULT IN THE ASSESSMENT OF A DISINCENTIVE IN THE AMOUNT OF \$3,000.00/DAY.

OVERWINTER 2025/2026

AT THE COMPLETION OF PHASE 1B THE FOLLOWING WILL NEED COMPLETED FOR THE OVER WINTER CONDITION PRIOR TO STARTING PHASE 2A. THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC CONTROL ELEMENTS OVER WINTER.

-TRAFFIC LANES FOR THE NORTHBOUND LOCAL AND EXPRESS LANES SHALL BE PLACED AS FOLLOWS. THE NORTHBOUND LOCAL LANES FROM BEGIN PROJECT TO STATION 560+00 AND EXPRESS LANES AND CROSSOVER RAMPS FROM BEGIN PROJECT TO STATION 565+00 SHALL BE PLACED PER THE PERMANENT TRAFFIC CONTROL PLAN USING ITEM 614 WORK ZONE PAVEMENT MARKINGS, CLASS I, 807 PAINT. THE NORTHBOUND LOCAL LANES FROM 560+00 TO END PROJECT SHALL BE RESTRIPTED TO MATCH THE PRECONSTRUCTION CONDITION USING ITEM 614 WORKZONE PAVEMENT MARKINGS, CLASS I, 807 PAINT. PRIOR TO REMOVING EXISTING MARKINGS AT THE START OF CONSTRUCTION THE CONTRACTOR SHALL LOG AND KEEP A RECORD OF THE EXISTING CONDITIONS TO BE RESTRIPTED. SEE THE MOT SUBSUMMARY FOR QUANTITIES TO COMPLETE THE STRIPING.

-THE CROSSOVER RAMPS BETWEEN IR-271 NORTHBOUND LOCAL AND EXPRESS LANES SHALL BE OPENED TO TRAFFIC.

-PREVIOUSLY REMOVED RPM REFLECTORS SHALL BE REPLACED IN THE EXISTING RPM CASTINGS PER THE PLAN NOTE ON SHEET 23.

-FROM STATION 560+00 TO STATION 598+00 THE PORTABLE BARRIER ALONG THE WEST EDGELINE OF THE LOCAL LANES SHALL BE MOVED WEST TO CREATE A 10 FOOT SHOULDER OVER WINTER. SEE THE MOT SUBSUMMARY FOR QUANTITIES TO COMPLETE THE MOVE AND SEE SHEETS 35-36 FOR A TYPICAL SECTION OF THE OVER WINTER CONDITION.

SEQUENCE OF CONSTRUCTION (CONT)

PHASE 2A (SEE SHEETS 53-62)

NO WORK IN THIS PHASE SHALL BEGIN BEFORE APRIL 1, 2026.

WORK THIS PHASE:
IR 271 NORTHBOUND LOCAL LANES
-REMOVE PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE OUTSIDE OF THE LOCAL LANES.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-BUILD PORTIONS OF NEW NORTHBOUND FULL DEPTH PAVEMENT AND OUTSIDE SHOULDERS, DRAINAGE AND DITCH GRADING. PAVEMENT WORK SHALL OMIT CONSTRUCTION OF PERMANENT ASPHALT SURFACE COURSE.

RAMP C2 (NORTHBOUND EXIT TO BRAINARD/CEDAR)
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND OUTSIDE SHOULDER.
-BUILD NEW FULL DEPTH PAVEMENT AND OUTSIDE SHOULDER. PAVEMENT WORK SHALL OMIT CONSTRUCTION OF PERMANENT ASPHALT SURFACE COURSE.

RAMP C3
-REMOVE PORTIONS OF THE EXISTING OUTSIDE SHOULDER.
-BUILD NEW FULL DEPTH PAVEMENT AND OUTSIDE SHOULDER. PAVEMENT WORK SHALL OMIT CONSTRUCTION OF PERMANENT ASPHALT SURFACE COURSE.
-REMOVE EXISTING QUICK CURB AND PLACE CONCRETE TRAFFIC ISLAND AND CURB RAMPS.

CEDAR ROAD
-REMOVE EXISTING QUICK CURB AND PLACE NEW CONCRETE TRAFFIC ISLAND AND ASSOCIATED CONCRETE CURBING/CATCH BASIN.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES
-MAINTAIN 3 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES WEST.

IR 271 NORTHBOUND EXPRESS LANES
-ALL LANES OPEN IN FINAL LANE POSITIONS.

RAMP C2
-RAMP OPEN TO TRAFFIC. MAINTAIN 1 LANE OF TRAFFIC ON EXISTING PAVEMENT IN WORK AREA. BEYOND WORK AREA ALL LANES OPEN IN EXISTING LANE LOCATION/CONFIGURATION.

RAMP C3
-RAMP CLOSED FOR 14 CALENDAR DAYS. DETOUR TRAFFIC TO RAMP C2 AND BRAINARD ROAD. MAINTAIN 1 LANE OF TRAFFIC ON EXISTING PAVEMENT IN ALL OTHER PERIODS.

CEDAR ROAD
-CLOSE THE WESTBOUND RIGHT LANE PER MT-95.31 FOR 14 DAYS CONCURRENT TO THE CLOSURE OF RAMP C3.

PHASE 2B (SEE SHEETS 63-64)

NO WORK IN THIS PHASE SHALL BEGIN BEFORE COMPLETION OF PHASE 2A WORK.

WORK THIS PHASE:
IR 271 NORTHBOUND LOCAL LANES
-REMOVE PORTIONS OF THE EXISTING NORTHBOUND PAVEMENT AND SHOULDER ON THE OUTSIDE OF THE LOCAL LANES INCLUDING GORE AREA WITH RAMP C2.
-REMOVE GROUND MOUNTED SIGNS AND SUPPORTS, OVERHEAD SIGNS AND OVERHEAD SIGN SUPPORTS AS NOTED IN THE MOT PLANS.
-BUILD PORTIONS OF NEW NORTHBOUND FULL DEPTH PAVEMENT AND OUTSIDE SHOULDERS, DRAINAGE AND DITCH GRADING. PAVEMENT WORK SHALL OMIT CONSTRUCTION OF PERMANENT ASPHALT SURFACE COURSE.

RAMP C2 (NORTHBOUND EXIT TO BRAINARD/CEDAR)
-REMOVE PORTIONS OF THE EXISTING PAVEMENT AND OUTSIDE SHOULDER INCLUDING GORE AREA WITH IR 271.
-BUILD NEW FULL DEPTH PAVEMENT AND INSIDE SHOULDER. PAVEMENT WORK SHALL OMIT CONSTRUCTION OF PERMANENT ASPHALT SURFACE COURSE.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES
-MAINTAIN 3 LANES OF TRAFFIC ON EXISTING PAVEMENT BY SHIFTING LANES WEST.

IR 271 NORTHBOUND EXPRESS LANES
-ALL LANES OPEN IN FINAL LANE POSITIONS.

RAMP C2
-RAMP OPEN TO TRAFFIC. MAINTAIN 1 LANE OF TRAFFIC ON EXISTING PAVEMENT IN WORK AREA. BEYOND WORK AREA ALL LANES OPEN IN EXISTING LANE LOCATION/CONFIGURATION.

SEQUENCE OF CONSTRUCTION (CONT)

RESURFACING OPERATIONS (NO SHEETS PROVIDED)

THIS WORK SHALL BE COMPLETED CONCURRENTLY WITH PART 2 RESURFACING OF I-271 NORTHBOUND LOCAL LANES.

WORK THIS PHASE:
IR 271 NB LOCAL LANES, RAMP C2/C3, AND CEDAR ROAD
-MILL EXISTING ASPHALT SURFACE TO SPECIFIED DEPTH ON EXISTING PAVEMENT TO REMAIN.
-COMPLETE PARTIAL DEPTH PAVEMENT REPAIRS AS DIRECTED BY THE ENGINEER.
-PLACE FINAL SURFACE COURSE ON RESURFACING AREAS AND NEW FULL DEPTH PAVEMENT AREAS OMITTED IN PREVIOUS PHASES.
-PLACE FINAL TRAFFIC CONTROL AND RUMBLE STRIPS AS SPECIFIED IN THE PLANS.

MAINTENANCE OF TRAFFIC:
IR 271 NORTHBOUND LOCAL LANES, EXPRESS LANES, AND CROSSOVER RAMPS
-USE OFF PEAK LANE AND SHOULDER CLOSURES PER THE ODOT D12 PLCS.

RAMP C2/C3
-USE OFF PEAK RAMP CLOSURES TO COMPLETE WORK.

CEDAR ROAD/BRAINARD ROAD
-USE FLAGGERS AND CLOSURES OF THE CURB LANE PER MT-95.31 DURING OFF PEAK PERIODS AS APPROVED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY



DESIGNER

NRE

REVIEWER

MTR 10/12/23

PROJECT ID

113156

SHEET TOTAL

27 233

SHEET NUM.						PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
19	22	23	24	26	31	01/SAF/21	02/NFP/05	03/IMS/05						
				280		140		140	614	11110	280	hour	MAINTENANCE OF TRAFFIC	
					9,319	9,319			614	11630	9,319	FT	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	26
	3					3			614	12360	3	EACH	INCREASED BARRIER DELINEATION	
					6	6			614	12380	6	EACH	WORK ZONE IMPACT ATTENUATOR (REPLACEMENT) (UNIDIRECTIONAL)	24
			24			12		12	614	12484	24	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	24
					1,339	1,339			614	12801	1,339	EACH	WORK ZONE INCREASED PENALTIES SIGN	
	50					50			614	13000	50	CY	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	23
					455	455			614	13310	455	EACH	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
					543	543			614	13350	543	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	26
			48			24		24	614	18601	48	SNMT	OBJECT MARKER, ONE WAY	26
					11.23	11.23			614	20056	11.23	MILE	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	24
		9.27				9.27			614	20110	9.27	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
		5.35				5.35			614	20560	5.35	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
					16.86	16.86			614	22056	16.86	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
		8.92				8.92			614	22110	8.92	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
						6.11			614	22360	6.11	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
					34,350	34,350			614	23110	34,350	FT	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
						11,156			614	23210	11,156	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
						7,882			614	23690	7,882	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
						11,232			614	24102	11,232	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
						12,524			614	24202	12,524	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 6", 807 PAINT	
						6,876			614	24612	6,876	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
						978	1,471		614	25200	2,449	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
						871			614	25620	871	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
						108			614	26200	108	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
						54			614	26610	54	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
						456	35		614	27050	491	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
						228			614	27250	228	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	
						50			614	30200	50	EACH	WORK ZONE CROSSWALK LINE, CLASS III, 12", 642 PAINT	
						34			614	30650	34	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
						50			614	30650	50	M GAL	WORK ZONE ARROW, CLASS III, 642 PAINT	
						3			622	41060	3	EACH	WATER	23
					34,961	34,961			622	41100	34,961	FT	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	
					1,990	1,990			622	41110	1,990	FT	PORTABLE BARRIER, UNANCHORED	
					7,888	7,888			642	30000	7,888	FT	PORTABLE BARRIER, ANCHORED	
					5	5			642	30020	5	EACH	REMOVAL OF PAVEMENT MARKING	
					9.44	9.44			642	30030	9.44	MILE	REMOVAL OF PAVEMENT MARKING	
			48			24		24	808	18700	48	SNMT	REMOVAL OF PAVEMENT MARKING	
						LS			108	10000	LS		DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	23
						LS			614	11000	LS		CPM PROGRESS SCHEDULE	
						LS			614	11000	LS		MAINTAINING TRAFFIC	22
8						4		4	619	16021	8	MNTH	INCIDENTALS	
LS						LS		LS	623	10001	LS		FIELD OFFICE, TYPE C, AS PER PLAN	19
						LS			624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	19
													MOBILIZATION	

GENERAL SUMMARY