

LOCATION MAP

LATITUDE: N 39°08'35" LONGITUDE: 84°21'47" W



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

DESIGN DESIGNATION	TRAIL	US 50
CURRENT ADT (2022)		20204
OPENING YEAR ADT (2027)		21215
DESIGN YEAR ADT (2045)		24851
DESIGN HOURLY VOLUME (2045)		2237
DIRECTIONAL DISTRIBUTION		0.60
TRUCKS (24 HOUR B&C)		0.03
DESIGN SPEED	15 MPH	40 MPH
LEGAL SPEED		40 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	(04) URBAN MINOR	ARTERIAL
NHS PROJECT		NO

DESIGN EXCEPTIONS
NONE REQUIRED

ADA DESIGN WAIVERS
REQUIRED

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:

10200 Alliance Road,
Suite 300
Cincinnati OH 45242
(513) 842-8200

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HAM-COLUMBIA CONNECTOR

VILLAGE OF MARIEMONT COLUMBIA TOWNSHIP HAMILTON COUNTY

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FEDERAL PROJECT NUMBER

E210 (519)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF A 0.7 MILE SHARED USE PATH FROM THE EXISTING MARIEMONT CONNECTOR PROJECT TO THE WESTERN TERMINUS OF THE EXISTING COLUMBIA CONNECTOR TRAIL JUST EAST OF WALTON CREEK. THE PROPOSED SHARED USE PATH WILL BE 12' WIDE. THE PROJECT INCLUDES A PROPOSED RETAINING WALL AND A NEW BRIDGE OVER WALTON CREEK SOUTH OF US 50.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.98 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.78 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	3.76 ACRES

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

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.

Douglas A. Gruver, P.E.
District 08 Deputy Director

Pamela Boratyn
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/19/24	HW-2.2	7/20/18	TC-52.10	10/18/13	800-2023	1/16/26	WATERWAY PERMIT	4/23/25
BP-4.1	7/19/13			TC-52.20	1/15/21	823	10/20/23		
BP-5.1	1/16/26	MT-95.31	7/18/25	TC-74.10	1/16/26	832	7/18/25		
BP-7.1	1/16/26	MT-95.41	7/18/25	TC-83.20	7/18/25	878	1/16/26		
		MT-97.10	7/18/25	TC-85.10	1/16/26				
CB-2-2A, 2B, 2C	7/19/24	MT-101.60	1/17/25						
		MT-101.70	7/19/24						
DM-1.1	1/17/25	MT-101.75	7/21/23						
DM-1.3	7/18/14	MT-101.90	7/17/20						
		MT-105.10	1/17/20						
MH-3	7/19/24	MT-110.10	7/19/13						
RM-2.1	7/19/13	TC-41.20	10/18/13						
RM-4.2	1/16/26	TC-41.30	4/21/23						
RM-5.2	7/19/24	TC-41.40	1/16/26						
		TC-42.20	10/18/13						

ENGINEER'S SEAL

SIGNED: _____
DATE: 2/23/26

ENGINEER'S SEAL

SIGNED: _____
DATE: 2/23/26

DESIGN AGENCY

10200 Alliance Road,
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(513) 842-9200

DESIGNER

ZTM

REVIEWER

SNS 08-04-25

PROJECT ID

114496

SHEET TOTAL

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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, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 9 PM AND 8 AM. IN ADDITION, 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.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. P.15 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 2.0 HOUR.

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 THE EXCAVATION LIMITS ARE SHOWN AND LABERLED 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 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 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.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 605 - CONSTRUCTION UNDERDRAINS, AS PER PLAN

THE CONTRACTOR SHALL INSTALL CONSTRUCTION UNDERDRAIN ALONG THE LOW EDGE OF THE SHARED USE PATH FROM AT STA. 73+50 TO STA.89+26. THE BOTTOM OF THE 6" UNDERDRAIN SHALL BE SET 6" BELOW THE UNDERCUT.

PROVIDE A 611 PRECAST UNDERDRAIN OUTLET AND THE 601 TIED CONCETE BLOCK MAT PER DM-1.1 AT APPROXIMATELY THE FOLLOWING STATIONS:

- STA. 81+00
- STA. 83+50
- STA. 88+00
- STA. 88+85

THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE CONSTRUCTION UNDERDRAIN PRIOR TO THE CONSTRUCTION OF THE SHARED USE PATH. ALL CONSTRUCTION UNDERDRAIN ELEVATIONS AND OUTLET LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY FOR THE COMPLETION OF THIS WORK. ALL LABOR, MATERIALS AND EQUIPMENT INCLUDING PRECAST UNDERDRAIN OUTLETS AND TIED CONCRETE BLOCK MAT SHALL BE INCIDENTAL TO CMS ITEM 605.

ITEM 605 - 6" CONSTRUCTION UNDERDRAINS, AS PER PLAN 1664 FT.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	605 CU. YD.
659, COMMERCIAL FERTILIZER	0.73 TON
659, LIME	1.13 ACRES
659, WATER	30 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

PERMITS - WATERWAY PERMITS

SEE SPECIAL PROVISIONS IN THE CONTRACT DOCUMENT FOR WATERWAY PERMIT CONDITIONS OF WHICH THE CONTRACTOR MUST COMPLY.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ENVIRONMENTAL COMMITMENTS

1) THE CONTRACTOR SHALL INSTRCT WORKERS NOT TO HANDLE ANY LIVE, DEAD OR INJURED BATS DISCOVERED AT THE PROJECT SITE. THIS IS TO ENSURE THAT BOTH THE HANDLER AND THE ANIMAL ARE PROTECTED FROM EXPOSURE TO INJURY AND/OR DISEASE. ANY PARTY FINDING A DEAD, INJURED, OR SICK SPECIMEN MUST PROMPTLY NOTIFY THE OHIO FIELD OFFICE AT (614) 416-8993. REPORTING THE DISCOVERY OF DEAD OR INJURED BATS IS REQUIRED IN ALL CASES TO ENABLE THE SERVICE TO DETERMINE WHETHER THE LEVEL OF INCIDENTAL TAKE EXEMPTED BY THIS PBO HAS BEEN EXCEEDED AND TO ENSURE THE TERMS AND CONDITIONS ARE APPROPRIATE AND EFFECTIVE. BIOLOGICAL MATERIAL MUST BE PRESERVED IN THE BEST POSSIBLE CONDITION; THEREFORE, PROJECT PERSONNEL ARE RESPONSIBLE FOR ENSURING THAT ANY EVIDENCE ESSENTIAL FOR DETERMINING THE CAUSE OF DEATH OR INJURY IS NOT UNNECESSARILY DISTURBED.

2) WHERE APPROPRIATE, THE CONTRACTOR WILL REVEGETATE DISTURBED AREAS WITH NATIVE GRASSES AND WILDFLOWERS (CMS ITEM 659.09) OR SIMILAR SEED MIXES COMPOSED OF NATIVE HERBS AND GRASSES.

3) THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SWPPP, PER SS 832, BEFORE EARTHWORK COMMENCES. SEDIMENT AND EROSION CONTROLS SHALL BE PROPERLY INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STRAW BALES SHALL NOT BE PERMITTED AS A FORM OF SEDIMENT CONTROL. ENSURE TIMELY ADHERENCE TO THE GENERAL CONSTRUCTION PERMIT FOR ALL SEDIMENT AND EROSION CONTROLS, INCLUDING SEEDING AND MULCHING. PARTICULAR ATTENTION SHALL BE GIVEN TO ANY DRAINAGE WAYS, UNPROTECTED SLOPES, DICHTES, AND STREAMS THAT COULD CONVEY SEDIMENT LADEN WATERS DIRECTLY TO THE LITTLE MIAMI SCENIC RIVER.

STORAGE OF FUELS, PETROCHEMICALS AND EQUIPMENT

THE CONTRACTOR SHALL NOT STORE IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS IN THE FLOODPLAIN OR NEAR ANY DRAINAGE WAYS, DITCHES OR STREAMS THAT COULD CONVEY SUCH MATERIALS TO THE LITTLE MIAMI SCENIC RIVER OR ANY OF ITS TRIBUTARIES. THE CONTRACTOR SHALL NOT DISCHARGE ANY PETROCHEMICALS AND TOXIC/HAZARDOUS MATERIALS INTO THE LITTLE MIAMI SCENIC RIVER, ITS FLOODPLAINS, OR ANY OF ITS TRIBUTARY DRAINAGE WAYS, DITCHES OR STREAMS. THE CONTRACTOR SHALL NOT REFUEL EQUIPMENT IN THE FLOODPLAIN OR NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES OR STREAMS.

MATERIAL DISPOSAL

THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL, AND TRASH IS DISPOSED OR AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE 100-YEAR FLOOD ELEVATIONS. THE CONTRACTOR SHALL NOT DISPOSE OF ANY SUCH MATERIALS IN WETLANDS, FLOODPLAINS OR WITHIN 1000 FEET OF THE LITTLE MIAMI SCENIC RIVER.

SCENIC RIVER COORDINATION

THE CONTRACTOR SHALL INVITE THE SOUTHWEST REGIONAL SCENIC RIVER MANAGER, AARON ROURKE, AARON.ROURKE@DNR.OHIO.GOV, (614)-230-8534, TO A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR PRESENT AND NOTIFY MR. ROURKE OF THE PROJECT START DATE ONE WEEK PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MEET MR. ROURKE PERIODICALLY FOR PERIODIC INSPECTIONS OF THE PROJECT TO ENSURE THAT SCENIC RIVER REQUIREMENTS ARE BEING MET. THE CONTRACTOR SHALL ALSO CONTACT MR. ROURKE ONE WEEK PRIOR TO COMPLETION OF THE PROJECT FOR A FINAL SITE INSPECTION.

SCENIC RIVER COORDINATION (CONTINUED)

THE CONTRACTOR SHALL BE PRESENT AT THE FINAL SITE INSPECTION TO ENSURE THAT FINAL SITE STABILIZATION HAS BEEN ACHIEVED. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER 40 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE LITTLE MIAMI SCENIC RIVER. 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 30 DAYS PRIOR TO ANY WORK WITHIN 1000 FEET OF THE LITTLE MIAMI SCENIC RIVER.

DEWATERING

THE CONTRACTOR SHALL NOT DISCHARGE WASTEWATER OF ANY KIND INTO THE LITTLE MIAMI SCENIC RIVER OR ANY OF ITS TRIBUTARY STREAMS, DRAINAGE WAYS, OR DITCHES. IF DEWATERING IS NECESSARY TO FACILITATE IN-STREAM WORK OR PIER CONSTRUCTION, PUMP ALL WASTEWATER ONTO A VEGETATED AREA A SUFFICIENT DISTANCE FROM THE RIVER TO ALLOW FOR COMPLETE INFILTRATION. IF DISCHARGE TO A VEGETATED AREA IS NOT FEASIBLE, THEN WASTEWATER SHALL BE DISCHARGED INTO A SEDIMENT FILTER BAG OR INTO A TEMPORARY DETENTION/RETENTION POND OR APPROPRIATE SEDIMENT CONTROL WITH A SUFFICIENT RETENTION PERIOD THAT PERMITS THE SETTLING OF ALL SUSPENDE SOLIDS. THE CONTRACTOR SHALL PUMP ALL WATER TO AN AREA WITHIN THE PROJECT LIMITS OR AN AREA CLEARED BY THE CONTRACTOR

SECTION 4(F) PROPERTIES PROTECTION

1) ACCESS TO COLUMBIA CONNECTOR TRAIL AND MARIEMONT CONNECTOR TRAIL SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR THE IMMEDIATELY ADJACENT 100' SECTION OF THE COLUMBIA CONNECTOR TRAIL WHICH CAN BE CLOSED UP TO 2 MONTHS, AND THE ADJACENT 25' SECTION OF THE MARIEMONT CONNECTOR TRAIL WHICH CAN BE CLOSED UP TO 2 WEEKS, IN ORDER TO TIE IN THE TRAILS.

2) TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE SECTION 4(F) PROPERTY AND THE PUBLIC.

3) APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF BOTH THE COLUMBIA CONNECTOR TRAIL AND MARIEMONT CONNECTOR TRAIL OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

4) THE CONTRACTOR SHALL NOTIFY ODOT, GREAT PARKS OF HAMILTON COUNTY AND THE VILLAGE OF MARIEMONT 2 WEEKS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES IMPACTING THE EXISTING COLUMBIA CONNECTOR TRAIL AND/OR MARIEMONT CONNECTOR TRAILS.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS TEMPORARY CONSTRUCTION FENCING AS REQUIRED ABOVE.

ITEM 607 – FENCE, SNOW 200 FT

ITEM 614 - MAINTENANCE OF TRAFFIC, MISC.: TYPE 3 BARRICADE WITH FLASHING BEACONS 2 EACH

ITEM 630 - SIGN, FLAT SHEET (R11-2, TRAIL CLOSED) 10.0 SQ FT

DESIGN AGENCY



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(513) 842-9200

DESIGNER
ZTM

REVIEWER
SNS 08-04-25

PROJECT ID
114496

SHEET TOTAL
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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON US 50, MIAMI RUN, MARIEMONT WAY, AND WARRIOR WAY BY USE OF THE EXISTING PAVEMENT. WHEN REQUIRED FOR ACTIVE CONSTRUCTION OPERATIONS TRAFFIC ON MIAMI RUN, MARIEMONT WAY, AND WARRIOR WAY MAY BE REDUCED TO ONE LANE-TWO WAY TRAFFIC BY USE OF A FLAGGER ACCORDING TO MT-97.10, AS APPROVED BY THE ENGINEER.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

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.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 9 M. GAL.

SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION OUTLINED BELOW IS INTENDED TO GUIDE THE WORK IN A MANNER THAT PROVIDES A BASIC LEVEL OF SERVICE TO ALL MOTORISTS.

ALTHOUGH THIS SEQUENCE OF CONSTRUCTION LISTS TASKS IN A SPECIFIC ORDER, NOT EVERY ITEM LISTED MUST BE COMPLETED BEFORE COMMENCING THE NEXT ITEM, AND SOME TASKS MAY BE PERFORMED CONCURRENTLY.

PHASE 1

CONSTRUCT SEGMENT A OF THE COLUMBIA CONNECTOR FROM THE EXISTING MARIEMONT CONNECTOR TO MARIEMONT WAY INCLUDING THE NEW CURB RAMPS NORTH OF US 50 FROM STA 10+40 TO STA 20+50. WORK ALONG MARIEMONT WAY AND WARRIOR WAY SHOULD BE CONDUCTED WHILE SCHOOL IS OUT OF SESSION. USE FLAGGERS, ACCORDING TO MT-97.10, AS NECESSARY TO CONSTRUCT CURB RAMPS ALONG WARRIOR WAY. CLOSE ONE WESTBOUND LANE OF US 50 USING MT-95.31 TO CONSTRUCT THE SHARED USE PATH AND CURB RAMPS ALONG US 50 FROM STA 17+50 TO STA 20+50.

PHASE 2

CONTRACTOR TO CONSTRUCT THE CURB RAMP ALONG THE SOUTH SIDE OF US 50 AT APPROXIMATE STATION 40+85.50 THROUGH THE USE OF FLAGGERS. THE CONTRACTOR SHALL OPEN THAT INTERSECTION UP TO PEDESTRIAN TRAFFIC PRIOR TO BEGINNING THE CONSTRUCTION OF CONNECTOR B.

CONSTRUCT SEGMENT B OF THE COLUMBIA CONNECTOR FROM MARIEMONT WAY TO MIAMI RUN FROM STA. 40+50 TO APPROXIMATE STA. 50+20, INCLUDING THE DRIVE AND RETAINING WALL WITHIN THE STATION LIMITS, BY CLOSING ONE EASTBOUND LANE AS SHOWN IN THE PLANS.

PHASE 3

CONSTRUCT SEGMENT C OF THE COLUMBIA CONNECTOR ALONG MIAMI RUN FROM STA 70+92.50 TO STA 77+00. FLAGGERS MAY BE USED ACCORDING TO MT-97.10. CONSTRUCTION ACTIVITY SHALL NOT INTERFERE WITH BUSINESS ACTIVITIES OF KROGER, KROGER FUEL, OR McDONALDS, INCLUDING THE ACCOMMODATION OF DELIVERY VEHICLES.

THE REMAINDER OF SEGMENT C CAN BE CONSTRUCTED WITH NO IMPACT TO EXISTING TRAFFIC PATTERNS.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND 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 OF TRAFFIC RESTRICTIONS TIME TABLE
ITEM DURATION OF NOTICE DUE TO CLOSURE PERMITS & PIO

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS CLOSURES & PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF N/A		14 CALENDAR DAYS CONSTRUCTION & PRIOR TO CLOSURE TRAFFIC PATTERN IMPLEMENTATION CHANGES

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

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
ALL WORK REQUIRED TO COMPLETE CONSTRUCTION PHASE 1	60	\$2500	06/01/2026	08/14/2026
LANE RESTRICTIONS AS IDENTIFIED IN CONSTRUCTION PHASE 2	120	\$2500	04/01/2027	08/14/2027

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

MAINTENANCE OF DRIVES

THE CONTRACTOR SHALL COORDINATE ANY ACCESS RESTRICTION WITH THE PROPERTY OWNERS. ACCESS TO DRIVES THAT ARE IMPACTED DURING CONSTRUCTION SHALL BE MAINTAINED. WHEN WORK IS REQUIRED TO RECONSTRUCT A DRIVE APPROACH, THE WORK SHALL BE SCHEDULED TO LIMIT THE DISRUPTION TO THE ADJACENT BUSINESSES TO 14 DAYS. DRIVES SHALL BE MAINTAINED VIA EXISTING PAVEMENT, ITEM 304 OR ITEM 410 TRAFFIC COMPACTED SURFACE TYPE A DURING BUSINESS HOURS. DURING NONBUSINESS HOURS OR AT THE APPROVAL OF THE ENGINEER, THE DRIVES MAY BE CLOSED TO COMPLETE THE PROPOSED WORK. DRIVES WHICH ARE CLOSED, SHALL BE CLOSED USING TYPE III BARRICADES PER SCD MT-101.60.

DURING THE CONSTRUCTION OF THE DRIVE AT STATION 44+20.28, THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE DUMPSTER FOR REGULARLY SCHEDULED TRASH PICKUPS.

DURING THE CONSTRUCTION OF THE DRIVE AT STATION 71+50.65, THE CONTRACTOR SHALL LIMIT DRIVEWAY RESTRICTIONS AND/OR CLOSURES TO PERIODS BETWEEN SCHEDULED FUEL DELIVERIES.

PAYMENT FOR THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

MOT SUBSUMMARY										
SHEET NO.	REF. NO.	LOCATION	SIDE	STATION		614				622
				FROM	TO	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)	OBJECT MARKER, TWO WAY	WORK ZONE EDGE LINE, CLASS 1, 6", 740.06, TYPE 1	PORTABLE BARRIER, UNANCHORED
						EACH	EACH	EACH	MI	FT
P.10	EL-1	U.S. 50	RT	1669+08.58	1671+52.87				0.05	
P.10-P.11	EL-2	COLUMBIA CONNECTOR B	LT	40+84.34	49+53.41				0.17	
P.10	IA-1	COLUMBIA CONNECTOR B	LT		44+67.45	1				
P.10-P.11		COLUMBIA CONNECTOR B	LT	74+67.09	47+88.86		7	6		
P.10-P.11	PB-1	COLUMBIA CONNECTOR B	LT	44+67.45	47+88.86					320
SUBTOTAL						1	7	6	0.22	320
TOTALS CARRIED TO GENERAL SUMMARY						1	7	6	0.22	320

DESIGN AGENCY



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DESIGNER

ZTM

REVIEWER

SNS 08-04-25

PROJECT ID

114496

SHEET TOTAL

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SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.6	P.7	P.9	P.15	P.16	P.78	P.79	P.85	P.87	P.90	P.96	P.97	P.99	01/S>2/28	EXT	TOTAL				
ROADWAY																			
LS				7									LS	201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN	P.6	
			4,364										7	202	23000	SY	PAVEMENT REMOVED		
			269										4,364	202	30000	SF	WALK REMOVED		
			77										269	202	32000	FT	CURB REMOVED		
													77	202	35100	FT	PIPE REMOVED, 24" DIAMETER AND UNDER		
			240										240	202	75000	FT	FENCE REMOVED		
			2,783										2,783	203	10000	CY	EXCAVATION		
			1,358										1,358	203	20000	CY	EMBANKMENT		
				5,578									5,578	204	10000	SY	SUBGRADE COMPACTION		
				723									723	204	13000	CY	EXCAVATION OF SUBGRADE, 12"		
													723	204	30020	CY	GRANULAR MATERIAL, TYPE C		
2				723									2	204	45000	2	HOUR	PROOF ROLLING	
													2,169	204	50000	2,169	SY	GEOTEXTILE FABRIC, 712.09, TYPE D	
200													200	607	30000	200	FT	FENCE, SNOW	P.7
			1,133										1,133	607	98000	1,133	FT	FENCE, MISC.: WOOD FENCE	P.19
													192	608	10000	192	SF	4" CONCRETE WALK	
													56	608	40000	56	FT	CONCRETE STEPS, TYPE A	
													3,369	608	52000	3,369	SF	CURB RAMP	
EROSION CONTROL																			
				7									7	601	32100	7	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
2													2	659	00100	2	EACH	SOIL ANALYSIS TEST	
605													605	659	00300	605	CY	TOPSOIL	
			2,778										2,778	659	10000	2,778	SY	SEEDING AND MULCHING	
									1,030				1,030	659	10001	1,030	SY	SEEDING AND MULCHING, AS PER PLAN (TURF MOW STRIP)	P.90
													3,085	659	10001	3,085	SY	SEEDING AND MULCHING, AS PER PLAN (BALANCE MIX)	P.90
0.73													0.73	659	20000	0.73	TON	COMMERCIAL FERTILIZER	
1.13													1.13	659	31000	1.13	ACRE	LIME	
30													30	659	35000	30	MGAL	WATER	
													LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
													LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
													LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
													47,377	832	30000	47,377	EACH	EROSION CONTROL	
DRAINAGE																			
				1									1	602	20000	1	CY	CONCRETE MASONRY	
1,664													1,664	605	11001	1,664	FT	6" CONSTRUCTION UNDERDRAINS, AS PER PLAN	P.7
				89									89	611	04400	89	FT	12" CONDUIT, TYPE B	
				93									93	611	04600	93	FT	12" CONDUIT, TYPE C	
				6									6	611	05900	6	FT	15" CONDUIT, TYPE B, 706.02	
													16	611	16400	16	FT	36" CONDUIT, TYPE B, 706.02	P.76
				16									26	611	16600	26	FT	36" CONDUIT, TYPE C	
				32									32	611	97010	32	FT	SLOTTED DRAIN, TYPE 2, 12"	
				1									1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
				1									1	611	99574	1	EACH	MANHOLE, NO. 3	
													1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
PAVEMENT																			
				30									30	253	02000	30	CY	PAVEMENT REPAIR	
			336	1,190									1,526	304	20000	1,526	CY	AGGREGATE BASE	
				272									272	407	10000	272	GAL	TACK COAT	
				14									14	441	70500	14	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS), 1-1/4"	
				14									14	441	70700	14	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS), 1-1/4"	
													15	452	12050	15	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
				90									90	609	12001	90	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	P.23
				93									93	609	26000	93	FT	CURB, TYPE 6	
				76									76	609	28000	76	FT	CURB, TYPE 7	
													190	823	40000	190	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449)	
													311	823	42000	311	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	

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SHEET TOTAL
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SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.6	P.7	P.9	P.15	P.16	P.78	P.79	P.85	P.87	P.90	P.97	P.99	01/S>2/28	EXT	TOTAL				
																STRUCTURE OVER 20 FOOT SPAN (HAM-COLUMBIA CONNECTOR) CONTINUED		
											146	146	510	09950	146	EACH	DOWEL HOLES WITH CEMENT GROUT	
											12	12	511	45710	12	CY	CLASS QC1 CONCRETE, ABUTMENT	
											LS	LS	SPECIAL	53000200	LS		STRUCTURES, MISC.: PREFABRICATED BRIDGE	P.100
																	MAINTENANCE OF TRAFFIC	
		1										1	614	12384	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
		7										7	614	13310	7	EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)	
		6										6	614	13360	6	EACH	OBJECT MARKER, TWO WAY	
	2											2	614	18000	2	EACH	MAINTAINING TRAFFIC, MISC.:TYPE 3 BARRICADE WITH FLASHING BEACONS	P.7
		0.22										0.22	614	22210	0.22	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
		9										9	616	10000	9	MGAL	WATER	
		320										320	622	41100	320	FT	PORTABLE BARRIER, UNANCHORED	
																	INCIDENTALS	
			LS									LS	108	10000	LS		CPM PROGRESS SCHEDULE	
												LS	614	11000	LS		MAINTAINING TRAFFIC	
												LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS	624	10000	LS		MOBILIZATION	
LS												LS	SPECIAL	69098400	LS		CONCRETE, MISC; CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	P.6
												LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

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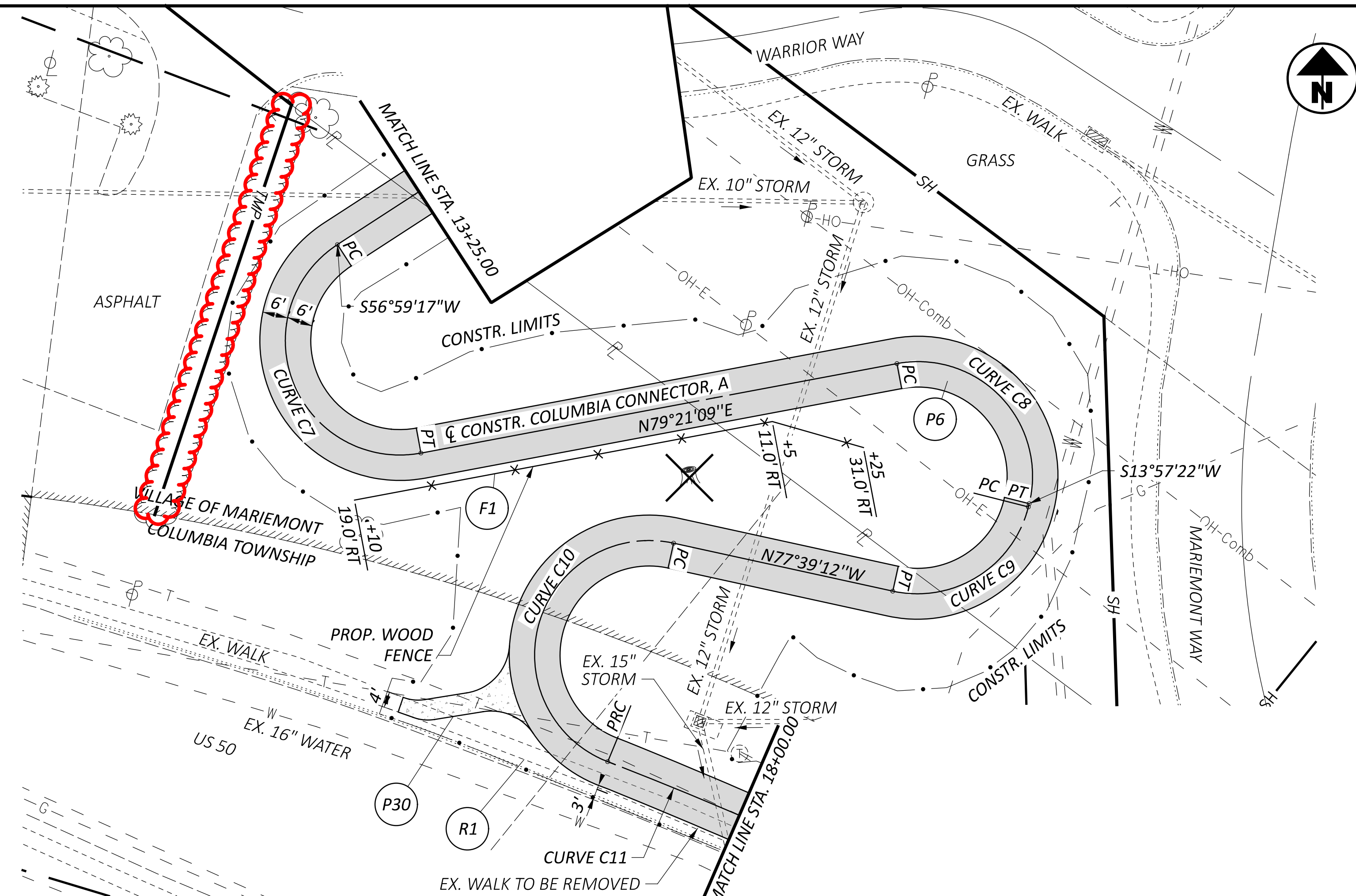
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HAM-COLUMBIA CONNECTOR

MODEL: CLP_3 - plan 2 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 4/29/2026 TIME: 6:08:13 PM USER: zmorman
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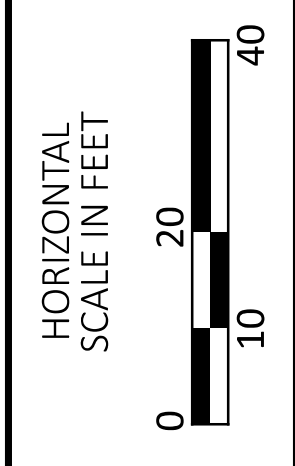
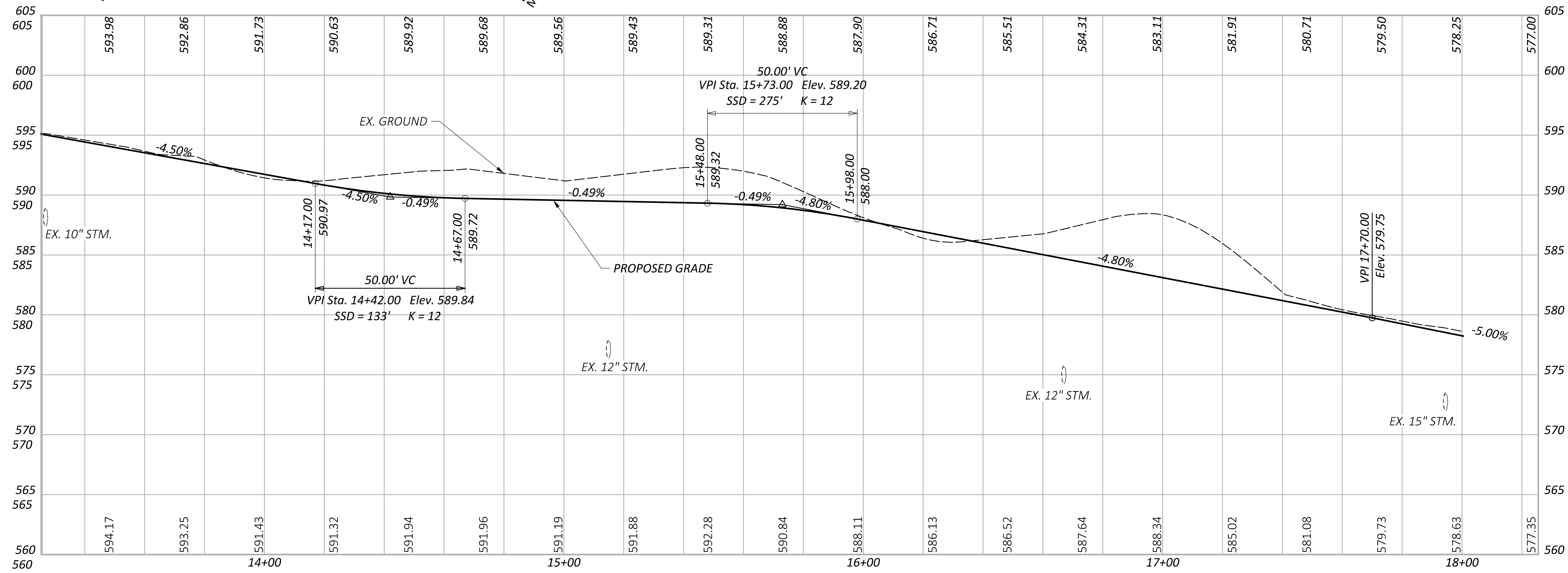


CURVE DATA C7	CURVE DATA C8	CURVE DATA C9
P.I. = STA. 14+84.49	P.I. = STA. 15+78.49	P.I. = STA. 16+17.48
$\Delta = 157^{\circ}38'08''$ LT	$\Delta = 114^{\circ}36'13''$ RT	$\Delta = 88^{\circ}23'26''$ RT
Dc = 212'12'24"	Dc = 212'12'24"	Dc = 212'12'24"
R = 27.00'	R = 27.00'	R = 27.00'
T = 136.58'	T = 42.06'	R = 27.00'
L = 74.28'	L = 54.01'	T = 26.25'
E = 112.23'	E = 22.98'	L = 41.65'
PC = STA. 13+47.90	PC = STA. 15+36.43	PC = STA. 15+91.23
PT = STA. 14+22.19	PT = STA. 15+90.43	PT = STA. 16+32.88

CURVE DATA C10	CURVE DATA C11
P.I. = STA. 20+35.49	P.I. = STA. 18+13.58
$\Delta = 171^{\circ}10'10''$ LT	$\Delta = 05^{\circ}34'39''$ RT
Dc = 212'12'24"	Dc = 05'55'33"
R = 27.00'	R = 966.90'
T = 349.68'	T = 47.1'
L = 80.66'	L = 94.12'
E = 323.72'	E = 1.15'
PC = STA. 16+85.82	PC = STA. 17+66.48
PT = STA. 17+66.48	PT = STA. 18+60.60

ITEM 607 - FENCE, MISC.: WOOD FENCE

THE CONTRACTOR SHALL MEET THE REQUIREMENTS AS SET FORTH IN SCD RM-5.2 FOR THE WOOD FENCE SHOWN IN THE PLANS.
 ALL LABOR, EQUIPMENT AND MATERIAL SHALL BE INCLUDED IN THE PRICE BID PER FOOT OF ITEM 607 - FENCE, MISC.: WOOD FENCE.



PLAN AND PROFILE
STA. 13+25.00 TO STA. 18+00.00

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SHEET TOTAL
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FOR PAVEMENT LEGEND, SEE SHEET P.18
 FOR CURB RAMP DETAILS, SEE SHEETS P.73 TO P.75