

LINEAR GRADING

AREAS WHERE THE SHOULDER IS HIGHER THAN THE EDGE OF PAVEMENT WILL BE GRADED TO PROVIDE POSITIVE DRAINAGE. THIS WORK WILL ONLY BE PERFORMED IN AREAS NECESSARY AND WILL NOT BE PERFORMED ON THE ENTIRE PROJECT. AREAS FOR THE WORK WILL BE MARKED BY THE PROJECT ENGINEER. UNDER NO CIRCUMSTANCES WILL THIS WORK BE PERFORMED CONCURRENTLY WITH ANY OTHER OPERATION.

GRADING WILL BE ACCOMPLISHED BY THE REMOVAL OF MATERIAL TO PROVIDE A 0.08 POSITIVE SLOPE. THE GRADED AREAS WILL BE COMPACTED TO A SUFFICIENT DENSITY TO PREVENT EROSION UNTIL SEEDING AND MULCHING IS PERFORMED. ALL EXCESS MATERIAL WILL BE REMOVED FROM THE BERMS AND WILL BE DISPOSED OF OFF THE PROJECT BY THE CONTRACTOR.

THE CONTRACTOR IS REQUIRED TO PLACE ITEM 617 WITHIN A PERIOD NOT TO EXCEED 7 DAYS. REFER TO THE AS PER PLAN NOTE FOR REQUIREMENTS.

EXPOSED EARTH OUTSIDE OF THE LIMITS OF ITEM 617 ARE REQUIRED TO BE SEEDED AND MULCHED WITHIN 7 DAYS OF PLACEMENT OF ITEM 617. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 832.

THE QUANTITY OF ITEM 209 IS NOT PERMITTED TO BE INCREASED. REDUCTIONS IN QUANTITIES ARE PERMITTED AS DETERMINED BY THE PROJECT ENGINEER.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:
209, LINEAR GRADING, 134 STA.

BARRIER REFLECTORS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS DIRECTED BY THE ENGINEER FOR INSTALLING/REPLACING BARRIER REFLECTORS ON ALL EXISTING BARRIER RUNS WITHIN THE PROJECT LIMITS.
202, REMOVAL MISC.: BARRIER REFLECTOR, 21 EACH
626, BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL), 103 EACH

ITEM 253 - CONCRETE PAVEMENT REPAIR

THIS ITEM WILL BE USED TO REPLACE CONCRETE PAVEMENT AT THE SPECIFIED LOCATIONS BELOW. CONCRETE PAVEMENT WILL BE EXCAVATED AND REPLACED WITH ASPHALT.

SR 7
SLM 23.14
SLM 23.80
SLM 26.97

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING CONCRETE PAVEMENT FULL DEPTH AND PLACING 10"-12"± 301 ASPHALT CONCRETE BASE, PG64-22. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

253, PAVEMENT REPAIR, 33 SQ YD

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, 623.05 FOR MONUMENT BOXES, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (48" DIAMETER FOR STORM AND SANITARY MANHOLE CASTINGS, 24"-28" FOR VALVE AND MONUMENT BOXES, AND 2' IN DIAMETER LARGER THAN STANDARD MANHOLES SUCH AS TELECOMMUNICATION MANHOLE CASTINGS) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, 12 EACH

changed quantity

ITEM SPECIAL - AS-BUILT CONSTRUCTION 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-LINED CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTAION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION PLANS 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 CONTRACTORS VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL RECORD DRAWING. THE CONTRACTORS VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTORS 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.

STREAM/WETLAND AVOIDANCE

THE CONTRACTOR SHALL NOT PLACE TEMPORARY OR PERMANENT FILL IN WETLANDS OR BELOW THE ORDINARY HIGH WATER MARK OF ANY WATERWAY DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL NOT PLACE EQUIPMENT BELOW THE ORDINARY HIGH WATER MARK. IF DEBRIS ENTERS THE WATERWAY DURING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE DEBRIS IMMEDIATELY UTILIZING EQUIPMENT STAGED ABOVE THE ORDINARY HIGH WATER MARK.

STATE WILD AND SCENIC RIVER PROTECTIONS

THE PROJECT IS LOCATED WITHIN 1000 FEET OF CONNEAUT CREEK, A STATE WILD AND SCENIC RIVER AND THE EAST BRANCH OF THE ASHTABULA RIVER IS A STATE SCENIC RIVER WITHIN THE PROJECT LIMITS.

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

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

IN ACCORDANCE WITH ORC 3750.06, REPORTABLE SPILLS MUST BE REPORTED TO THE LOCAL FIRE DEPARTMENT (911), THE LOCAL EMERGENCY COORDINATOR (440-576-3500), AND THE OHIO SPILL LINE (800-282-9378).

THE CONTRACTOR SHALL KEEP ALL IDLE EQUIPMENT, FUELS, LUBRICANTS, AND ANY STORAGE FOR/OF POTENTIALLY TOXIC OR HAZARDOUS MATERIALS OUT OF THE FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA AND NOT WITHIN 1000 FEET OF THE CONNEAUT CREEK AND THE EAST BRANCH OF THE ASHTABULA RIVER.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER 40 DAYS PRIOR TO WORK WITHIN 1000 FEET OF CONNEAUT CREEK AND THE EAST BRANCH OF THE ASHTABULA RIVER. THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT ENVIRONMENTAL COORDINATOR 35 DAYS PRIOR TO WORK WITHIN 1000 FEET OF THE SCENIC RIVERS. THE DISTRICT ENVIRONMENTAL COORDINATOR SHALL COORDINATE WITH ODNR SCENIC RIVERS A MINIMUM OF 30 DAYS PRIOR TO ANY WORK WITHIN 1000 FEET OF CONNEAUT CREEK AND THE EAST BRANCH OF THE ASHTABULA RIVER.

THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SEDIMENT AND EROSION CONTROL PLAN BEFORE EARTHWORK COMMENCES. THE PLAN SHALL INCLUDE A LIST OF APPLICABLE BMPS, PER SS 832 THAT WILL BE USED THROUGHOUT THE PROJECT, SUCH AS PERIMETER CONTROLS AND/OR SEEDING AND MULCHING, AND MUST BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND ACCEPTANCE. 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. ALL TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE REMOVED UPON STABILIZATION OF THE PROJECT AREA. PARTICULAR ATTENTION SHALL BE GIVEN TO ANY DRAINAGE WAYS, UNPROTECTED SLOPES, DITCHES, AND STREAMS THAT COULD CONVEY SEDIMENT LADEN WATERS DIRECTLY TO THE CONNEAUT CREEK AND THE EAST BRANCH OF THE ASHTABULA RIVER.

DESIGN AGENCY



DESIGNER

REP

REVIEWER

MJA 01-07-25

PROJECT ID

100956

SHEET

P.5

TOTAL

12

SHEET NUM.										PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	4	5	6	7		9	10	11		01/STR/05						
															ROADWAY	
						52				52	202	23500	52	SY	WEARING COURSE REMOVED	
		21								21	202	98100	21	EACH	REMOVAL MISC.: BARRIER REFLECTOR	5
	42									42	203	10000	42	CY	EXCAVATION (FOR PAVEMENT REPAIR)	
		134								134	209	60200	134	STA	LINEAR GRADING	
						1,200				1,200	209	72000	1,200	STA	PREPARING SUBGRADE FOR SHOULDER PAVING	
										12	623	39501	12	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE, AS PER PLAN	5
		12 LS								LS	SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	5
															EROSION CONTROL	
										3,000	832	30000	3,000	EACH	EROSION CONTROL	
															PAVEMENT	
	2,750									2,750	251	01000	2,750	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (LONGITUDINAL)	
	250									250	251	01000	250	SY	PARTIAL DEPTH PAVEMENT REPAIR (441) (TRANSVERSE)	
	3,375									3,375	252	01500	3,375	FT	FULL DEPTH PAVEMENT SAWING	
	750	33								783	253	01000	783	SY	PAVEMENT REPAIR	
						161,361				161,361	254	01000	161,361	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=1.75")	
						46,322				46,322	254	01000	46,322	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=2.25")	
	42									42	304	20000	42	CY	AGGREGATE BASE (FOR PAVEMENT REPAIR)	
						21,417				21,417	407	20000	21,417	GAL	NON-TRACKING TACK COAT	
						10,664				10,664	408	10001	10,664	GAL	PRIME COAT, AS PER PLAN @0.40 GAL/SY	4
						162,283				162,283	422	11000	162,283	SY	AGGREGATE, SINGLE CHIP SEAL, TYPE A	
						64,914				64,914	422	25000	64,914	GAL	EMULSION, CHIP SEAL @0.40 GAL/SY	
						8,380				8,380	441	50100	8,380	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
						1,262				1,262	441	50200	1,262	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
						26				26	441	70500	26	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
						741				741	617	10101	741	CY	COMPACTED AGGREGATE, AS PER PLAN (T=1" AVG.)	4
						3				3	618	41000	3	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
						3				3	618	43000	3	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
						10,772				10,772	874	20000	10,772	FT	LONGITUDINAL JOINT PREPARATION	
															TRAFFIC CONTROL	
							753			753	621	00100	753	EACH	RPM	
							605			605	621	54000	605	EACH	RAISED PAVEMENT MARKER REMOVED	
		103								103	626	00102	103	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
								22.74		22.74	646	10010	22.74	MILE	EDGE LINE, 6"	
								11.37		11.37	646	10200	11.37	MILE	CENTER LINE	
								62		62	646	10400	62	FT	STOP LINE	
															MAINTENANCE OF TRAFFIC	
				50						50	614	11110	50	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			12							12	614	12460	12	EACH	WORK ZONE MARKING SIGN	
			10							10	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				12						12	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7
			11.37							11.37	614	21000	11.37	MILE	WORK ZONE CENTER LINE, CLASS I	
			22.74							22.74	614	21550	22.74	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
			68.22							68.22	614	22360	68.22	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
			62							62	614	26000	62	FT	WORK ZONE STOP LINE, CLASS I	
			124							124	614	26610	124	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
															INCIDENTALS	
										LS	614	11000	LS		MAINTAINING TRAFFIC	
										6	619	16010	6	MNTH	FIELD OFFICE, TYPE B	
										LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JF

REVIEWER

MJA 01-07-25

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100956

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P.8

TOTAL

12