ITEM 209 - DITCH CLEANOUT

THIS ITEM SHALL CONSIST OF FIELD SURVEY, CLEARING, EXCAVATION AND EMBANKMENT AS NECESSARY TO RE-ESTABLISH THE CROSS SECTION OF THE EXISTING DITCHES AS DIRECTED BY THE CHIEF ENGINEER. FOR STORM SEWER PIPES OR STRUCTURES ADJACENT TO THE DITCHES, ADDITIONAL CLEARING OF THOSE ITEMS SHALL BE DONE AS DIRECTED BY THE CHIEF ENGINEER AND CONSIDERED INCIDENTAL TO THE DITCH CLEANOUT. EXISTING DITCH CENTERLINE ELEVATIONS SHALL BE FIELD MEASURED AND RECORDED BY THE CONTRACTOR PRIOR TO PERFORMING ANY WORK ON THE DITCHES. PROPOSED ELEVATIONS FOR THE RE-ESTABLISHED DITCH SHALL BE SUBMITTED AND REVIEWED BY THE CHIEF ENGINEER BEFORE WORK MAY COMMENCE. THIS SHALL BE DONE TO ENSURE THE DITCH CLEANOUT ACCOMPLISHES POSITIVE DRAINAGE.

PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER FOOT FOR ITEM 209 - DITCH CLEANOUT AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM. ALL MAINTENANCE OF TRAFFIC NECESSARY TO COMPLETE THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 - MAINTAINING TRAFFIC.

THE FOLLOWING TABLES SHOW AREAS EXPECTED TO REQUIRE THIS TREATMENT;

OHIO TURNPIKE I-80 WESTBOUND

REFERENCE NO.	SHEET NO.	M.P.	STATION	LENGTH (FT.)	DEFICIENCY
DC-12	190	1.21	72+00	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-13	192	1.65	94+25	35	HEAVY/DENSE VEGETATION
DC-14	197	2.90	159+17	55	SEDIMENT, HEAVY/DENSE VEGETATION
DC-15	198	3.16	174+80	50	HEAVY/DENSE VEGETATION
DC-16	202	4.30	236+36	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-17	208	5.81	314+67	200	SEDIMENT, HEAVY/DENSE VEGETATION
DC-18	209	6.03	326+53	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-19	211	6.57-6.65	353+00	400	SEDIMENT, HEAVY/DENSE VEGETATION
DC-20	212	6.87-6.93	371+08	305	SEDIMENT, HEAVY/DENSE VEGETATION
				1195	WESTBOUND TOTAL

OHIO TURNPIKE I-80 EASTBOUND

REFERENCE NO.	SHEET NO.	M.P.	STATION	LENGTH (FT.)	DEFICIENCY
DC-01	186	0.16	16+20	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-02	190 - 191	1.25 - 1.35	71+80	600	HEAVY/DENSE VEGETATION
DC-03	192	1.65	95+40	55	HEAVY/DENSE VEGETATION
DC-04	195	2.39	133+90	25	HEAVY/DENSE VEGETATION
DC-06	197	2.90	159+32	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-07	200	3.78	207+48	200	SEDIMENT, HEAVY/DENSE VEGETATION
DC-08	203	4.58	250+00	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-09	209	6.03	326+53	50	SEDIMENT, HEAVY/DENSE VEGETATION
DC-10	209	6.2-6.24	335+26	210	SEDIMENT, HEAVY/DENSE VEGETATION
DC-11	212	6.87-6.96	369+75	500	SEDIMENT, HEAVY/DENSE VEGETATION
				1790	EASTBOUND TOTAL
				1195	WESTBOUND TOTAL
				2985	TOTAL CARRIED TO GENERAL SUMMARY

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, AS PER PLAN

THIS ITEM SHALL CONSIST OF FILLING THE EXISTING CORRUGATED METAL CONDUIT TO BE ABANDONED WITH ITEM 613, LOW STRENGTH MORTAR BACKFILL AND THE CONSTRUCTION OF BULK-HEADS AT BOTH ENDS OF THE REMAINING CONDUIT.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER FOOT FOR ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM.

SLOPE EROSION REPAIRS

FOR INDICATED SLOPE EROSION AREAS, REMOVE TOPSOIL FROM THE EXTENTS OF THE INDICATED AREA AND REMOVE SOIL DOWN TO THE LOWEST EXPOSED DEPTH IN THE EROSION AREA OR 12 INCHES, WHICHEVER IS GREATER. REMOVE ALL ROCKS, GRAVEL AND COBBLES AND FOREIGN MATERIAL 1 1/2" OR GREATER FROM THE SLOPE EROSION AREA. PLACE AND COMPACT BACKFILL TO MATCH THE ADJACENT SLOPE AND PLACE 4 INCHES OF COMPACTED TOPSOIL TO MEET EXISTING SLOPE GRADES AT ALL EXTENTS OF THE INDICATED SLOPE. PLACE ITEM 671 - EROSION CONTROL MAT, TYPE B FROM THE TOP OF THE SLOPE DOWN TO THE LOWEST INDICATED EXTENT OF THE SLOPE EROSION REPAIR AREA. CONTINUE THE EROSION CONTROL MAT LATERALLY FIVE (5) FEET BEYOND THE SIDE EXTENTS OF THE SLOPE EROSION AREA. FOR AREAS ADJACENT TO PROPOSED CONCRETE BARRIER, THE TOP OF SLOPE MAT SHALL START AT THE OUTSIDE FACE OF THE BARRIER. FOR ALL OTHER AREAS, THE TOP OF SLOPE MAT SHALL START AT THE EDGE OF SHOULDER COMPACTED AGGREGATE BEHIND THE GUARDRAIL. FOR ANY SLOPE EROSION AREAS THAT EXTEND TO A DITCH THAT IS SHOWN TO BE CLEANED, ITEM 209 - DITCH CLEANOUT SHALL BE DONE.

THE FOLLOWING QUANTITIES ARE TO BE DIRECTED BY THE CHIEF ENGINEER AND HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK;

ITEM 203 - EMBANKMENT, AS PER PLAN	148	CU. YDS.
ITEM 203 - EXCAVATION	148	CU. YDS.
ITEM 659 - TOPSOIL	49	CU. YDS.
ITEM 659 - WATER	2	M. GAL.
ITEM 659 - SEEDING AND MULCHING, CLASS 3B	444	SQ. YDS.
ITEM 671 - EROSION CONTROL MAT, TYPE B	667	SQ. YDS.

THE TABLE BELOW SHOW AREAS EXPECTED TO REQUIRE THIS TREATMENT;

OHIO TURNPIKE I-80 EASTBOUND

REFERENCE NO.	SHEET NO.	M.P.	STATION	WIDTH (FT.)	LENGTH (FT.)	AREA (S.Y.)	DEFICIENCY (L = LONGITUDINAL) (W = TRANSVERSE)
ER-01	212	6.90	372+22	20	50	111	SLOPE EROSION ON FORESLOPE
					50	111	EASTBOUND TOTAL
					0	0	WESTBOUND TOTAL
					50	111	TOTAL

ITEM SPECIAL - PIPE CLEANOUT

THIS ITEM SHALL CONSIST OF REMOVING ALL SEDIMENTS, DEBRIS, AND OTHER FOREIGN MATERIALS FROM INSIDE EXISTING CULVERTS. THE REMOVAL OPERATION SHALL NOT BE DESTRUCTIVE TO THE INTEGRITY OF THE PIPE OR CULVERT. THE CONTRACTOR SHALL REVIEW HIS CLEANOUT PROCEDURE WITH THE ENGINEER AND OBTAIN THE ENGINEER'S APPROVAL PRIOR TO PERFORMING THE WORK. ALL REMOVAL MATERIALS SHALL BE REMOVED OFFSITE IN ACCORDANCE WITH ITEM SP 105. ANY DEWATERING WORK REQUIRED TO COMPLETE THIS WORK SHALL BE INCLUDED UNDER THIS PAY ITEM.

CULVERT OR PIPE CLEANOUT WILL BE MEASURED ON A LINEAR FOOT BASIS. PAYMENT WILL BE MADE AT THE CONTRACT PRICE PER LINEAR FOOT FOR ITEM SPECIAL - PIPE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR CLEANOUT:

ITEM SPECIAL - PIPE CLEANOUT, 15" TO 36"	200 FEET
ITEM SPECIAL - PIPE CLEANOUT, OVER 36"	1700 FEET

CONDUIT ABANDONMENT (REINFORCED CONCRETE CONDUIT)

WHERE REINFORCED CONCRETE CONDUIT IS TO BE ABANDONED IN PLACE, BULK-HEADS WILL BE CONSTRUCTED AT BOTH ENDS OF THE REMAINING CONDUIT.

THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES. COST OF THE BULK-HEAD SHALL BE INCLUDED WITH ITEM 202 - PIPE REMOVED.

ITEM 832 - PERIMETER GEOTEXTILE FABRIC FENCE

GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 832, CMS 712.09, TYPE C AND AS SHOWN ON ODOT STANDARD DRAWING DM-4.4.

THE BOTTOM OF THE FENCE SHALL BE BURIED 6" BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATION SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

THE FILTER FABRIC SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR AND/OR REPLACEMENT OF THE FILTER FABRIC.

THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 832 - PERIMETER GEOTEXTILE FABRIC FENCE.

SEEDING & MULCHING

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

ITEM 659 - SOIL ANALYSIS TEST	8	EACH
ITEM 659 - TOPSOIL	27,226	CU. YDS. 1
ITEM 659 - SEEDING AND MULCHING	326,709	SQ. YDS.
ITEM 659 - REPAIR SEEDING AND MULCHING	16,336	SQ. YDS.
ITEM 659 - INTER-SEEDING	16,336	SQ. YDS.
ITEM 659 - COMMERCIAL FERTILIZER	44.10	TONS
ITEM 659 - LIME	67.51	ACRES
ITEM 659 - WATER	1765	M. GAL

ITEM 659 - TOPSOIL IS ONLY APPLICABLE WHEN TOPSOIL IS PHYSICALLY REMOVED FROM THE SLOPES AND MOVED TO A CONSTRUCTED TOPSOIL STOCK PILE SOLELY FOR THE PURPOSE OF TEMPORARY STORAGE PRIOR TO REUSE. 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 AN ASSUMED LIMIT 10' BEYOND THE SHOULDER FOR THE LENGTH OF THE PROJECT 39-20-01A, THE TOTAL AREA OF DITCH CLEANOUT AS SHOWN, LINEAR GRADING AREAS AND RAMP CROSS SECTIONS.

THE FOLLOWING ESTIMATED CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER:

ITEM 671 - EROSION CONTROL MAT, TYPE B 2000 SQ. YDS.

ITEM 659 - MOWING

THIS ITEM IS TO BE USED AS DIRECTED BY THE CHIEF ENGINEER TO MAINTAIN THE OTIC RIGHT OF WAY INCLUDING AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. MOWING OPERATIONS SHALL BEGIN AT THE EDGE OF GROWTH NEAREST TO THE PAVEMENT EDGE AND CONTINUE TO A MAXIMUM OF THE RIGHT OF WAY LINE, THROUGH THE DITCHES IN FLAT SECTIONS AND CUT OR FILL SECTIONS WITH SLOPES OF 3:1 OR LESS. MOWING SHALL EXTEND TO THE R/W LINE FROM THE PAVEMENT EDGE UNLESS OTHERWISE RESTRICTED BY THE DITCH BACK SLOPE LIMITS. ALL VEGETATION UP TO 1" IN DIAMETER SHALL BE CUT TO THE MOWING HEIGHT OF 6 INCHES. MOWING SHALL EXTEND A MINIMUM OF 10 FEET BEYOND THE BACK OF THE GUARDRAIL POST OR FILL SECTIONS (WITH OR WITHOUT GUARDRAIL) HAVING SLOPES STEEPER THAN 3:1. MOWER SHALL STRADDLE DITCHES. WHEELS OF TRACTOR SHALL NOT BE OPERATED IN DITCH BOTTOMS. CATTAILS, WEEDS, GRASS OR VEGETATIVE GROWTH OF ANY KIND IN DRAINAGE DITCHES SHALL BE CUT.

THE CONTRACTOR WILL BE RESPONSIBLE FOR MOWING THESE AREAS TWICE DURING EACH CONSTRUCTION SEASON. THIS WORK WILL BE PERFORMED ACCORDING TO 659.19 AND THIS GENERAL NOTE. THE USE OF A BOOM TYPE MOWER WILL BE REQUIRED TO MOW THE BOTTOM OF DITCHES AND BEHIND GUARDRAIL WHERE ACCESSIBILITY IS LIMITED. ALTHOUGH IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EQUIPMENT NECESSARY TO PERFORM THIS WORK, A BOOM MOWER WITH A REACH OF 24 FEET +/- (OR SIMILAR) MAY BE NEEDED IN SOME AREAS.

AREAS TO BE MOWED SHALL BE SUFFICIENTLY DRY AS NOT TO CAUSE RUTTING OR OTHER DAMAGE. LABOR AND MATERIALS FOR ANY REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLETED IN A TIMELY MATTER.

THE COMMISSION WILL MEASURE MOWING BY THE NUMBER OF MILES SATISFACTORILY MOWED WHICH INCLUDES BOTH SIDES OF THE TURNPIKE AND THE MEDIAN ON THE EAST END OF THE PROJECT. EACH MOW FOR THIS PROJECT IS 7.8 MILES FROM MP 0.0 TO MP 7.8. THE FOLLOWING ESTIMATED QUANTITY WHICH INCLUDES 6 COMPLETE CUTTINGS HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER:

ITEM 659 - MOWING 20 MILES

CHECKING PRINT
CORRECTED: DATE:
APPROVED: DATE:
CHECKED: DATE:
BACKCHECKED: DATE:

2018161GN001.dwg; 8/21/20 - 12:02pm

DESIGN AGENCY: GPD GROUP® Gruen, Pyle, Schimmer, Davis & DeNeuvillers, Inc. 520 South Main Street, Suite 2531 Akron, Ohio 44311-1050 330.375.1192 Fax: 330.375.1181

NO.	REVISIONS	BY	DATE
1	ADDENDUM #4	PJF	8/21/20
-	-	-	-
-	-	-	-

DESIGNED CLH | CHECKED PJF | IN CHARGE MRG | DRAWN CLH

GENERAL NOTES

PROJECT 39-20-01A
DATE: 06/26/20

7 / 7

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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION