

## Estimate 117607

Estimated Cost:\$7,130,948.39

Contingency: 4.80%

**Estimated Total: \$7,473,233.91**

FRA-161-15.80 NOISE WALLS - STAGE 3

**Base Date: 03/25/24**

Spec Year: 16

Unit System: E

Work Type: ASPHALT

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: FRANKLIN

Latitude of Midpoint: 400708

Longitude of Midpoint: 825259

District: 06

Federal Project Number:

State Project Number: 117607

*Prepared by JAW on 03/26/24*

*Checked by JDH on 03/27/24*

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

**Group 0100: ROADWAY**

0001	201E11000 CLEARING AND GRUBBING	1.000	LS	\$50,000.00000	\$50,000.00
0002	202E38000 GUARDRAIL REMOVED	1,262.000	FT	\$1.69481	\$2,138.85
0003	202E42040 ANCHOR ASSEMBLY REMOVED, TYPE T	1.000	EACH	\$80.64799	\$80.65
0004	202E75000 FENCE REMOVED	3,942.000	FT	\$2.84460	\$11,213.41
0005	203E10000 EXCAVATION	2,229.000	CY	\$19.11230	\$42,601.32
0006	203E20000 EMBANKMENT	684.000	CY	\$18.25226	\$12,484.55
0007	203E98000 ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL	67.000	CY	\$21.00000	\$1,407.00
0008	607E35000 FENCE REMOVED AND REBUILT	201.000	FT	\$30.19967	\$6,070.13

Total for Group 0100:\$125,995.91

**Group 0200: EROSION CONTROL**

0009	659E00100 SOIL ANALYSIS TEST	1.000	EACH	\$124.77787	\$124.78
0010	659E00300 TOPSOIL	887.000	CY	\$39.64551	\$35,165.57
0011	659E00590 SEEDING AND MULCHING, CLASS 6	955.000	SY	\$5.00000	\$4,775.00
0012	659E10000 SEEDING AND MULCHING	7,985.000	SY	\$1.12951	\$9,019.14
0013	659E14000 REPAIR SEEDING AND MULCHING	400.000	SY	\$0.64747	\$258.99
0014	659E15000 INTER-SEEDING	400.000	SY	\$0.18876	\$75.50

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0015	659E20000 COMMERCIAL FERTILIZER	1.080	TON	\$524.69565	\$566.67
0016	659E31000 LIME	1.650	ACRE	\$81.10517	\$133.82
0017	659E35000 WATER	95.000	MGAL	\$0.83481	\$79.31
0018	670E00500 SLOPE EROSION PROTECTION	9,090.000	SY	\$2.10554	\$19,139.36
0019	832E15000 STORM WATER POLLUTION PREVENTION PLAN	1.000	LS	\$5,000.00000	\$5,000.00
0020	832E15002 STORM WATER POLLUTION PREVENTION INSPECTIONS	1.000	LS	\$11,000.00000	\$11,000.00
0021	832E15010 STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	1.000	LS	\$11,500.00000	\$11,500.00
0022	832E30000 EROSION CONTROL	170,204.000	EACH	\$1.00000	\$170,204.00

Total for Group 0200:\$267,042.14

Group 0300: DRAINAGE

0023	601E21050 TIED CONCRETE BLOCK MAT, TYPE 1	245.000	SY	\$64.04209	\$15,690.31
0024	602E20000 CONCRETE MASONRY	2.970	CY	\$1,721.28828	\$5,112.23
0025	605E13300 6" UNCLASSIFIED PIPE UNDERDRAINS	9,399.000	FT	\$7.07513	\$66,499.15
0026	605E31100 AGGREGATE DRAINS	50.000	FT	\$21.95397	\$1,097.70
0027	611E00510 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	549.000	FT	\$26.19896	\$14,383.23
0028	611E06100 15" CONDUIT, TYPE C	275.000	FT	\$77.49151	\$21,310.17

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0029	611E06700	92.000	FT	\$77.10163	\$7,093.35
15" CONDUIT, TYPE F					
0030	611E99710	29.000	EACH	\$284.56885	\$8,252.50
PRECAST REINFORCED CONCRETE OUTLET					

Total for Group 0300:\$139,438.64

Group 0400: PAVEMENT

0031	254E01000	4,822.000	SY	\$3.05732	\$14,742.40
PAVEMENT PLANING, ASPHALT CONCRETE, 3"					
0032	304E20000	998.000	CY	\$69.33199	\$69,193.33
AGGREGATE BASE					
0033	407E10000	219.000	GAL	\$2.15158	\$471.20
TACK COAT (APPLIED AT A RATE 0.055 GAL/SY)					
0034	407E20000	760.000	GAL	\$3.11877	\$2,370.27
NON-TRACKING TACK COAT (APPLIED AT A RATE 0.085 GAL/SY)					
0035	442E10001	188.000	CY	\$207.10000	\$38,934.80
ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS P ER PLAN					
0036	442E10100	188.000	CY	\$182.63872	\$34,336.08
ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)					
0037	452E12010	1,803.000	SY	\$90.00000	\$162,270.00
8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1					
0038	452E13010	1,147.000	SY	\$66.48485	\$76,258.12
9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1					
0039	872E10000	4,401.000	FT	\$2.45000	\$10,782.45
VOID REDUCING ASPHALT MEMBRANE (VRAM)					

Total for Group 0400:\$409,358.65

Group 0500: NOISE BARRIERS

0040	519E11101	4.000	SF	\$236.00000	\$944.00
PATCHING CONCRETE STRUCTURE, AS PER PLAN					
0041	606E10210	115,234.000	SF	\$32.07000	\$3,695,554.38
SPECIAL - NOISE BARRIER (REFLECTIVE), OVER 10' TO 14' HEIGHT					

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0042	606E15050 GUARDRAIL, TYPE MGS	362.000	FT	\$18.34933	\$6,642.46
0043	606E26150 ANCHOR ASSEMBLY, MGS TYPE E	3.000	EACH	\$2,158.94873	\$6,476.85
0044	606E35002 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	4.000	EACH	\$2,119.45624	\$8,477.82
0045	606E35102 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	1.000	EACH	\$454.19233	\$454.19
0046	609E24000 CURB, TYPE 4-A	108.000	FT	\$9.48910	\$1,024.82
0047	611E99500 INLET, MISC.: <i>BARRIER INLET, 81" SSB</i>	11.000	EACH	\$8,500.00000	\$93,500.00
0048	622E90000 BARRIER, MISC.: 81" SINGLE SLOPE BARRIER NOISE WALL	3,743.000	FT	\$185.00000	\$692,455.00
0049	622E90200 BARRIER, MISC.: 81" SINGLE SLOPE BARRIER NOISE WALL, END ANCHORAGE, REINFORCED	29.000	EACH	\$15,000.00000	\$435,000.00
0050	622E90200 BARRIER, MISC.: BARRIER DRAINAGE WINDOW SECTION	6.000	EACH	\$7,400.00000	\$44,400.00
0051	622E90200 BARRIER, MISC.: 81" CONCRETE BARRIER END SECTION	6.000	EACH	\$15,000.00000	\$90,000.00
0052	633E67201 CONTROLLER WORK PAD, AS PER PLAN	1.000	EACH	\$1,000.00000	\$1,000.00

Total for Group 0500:\$5,075,929.52

**Group 0600:** TRAFFIC CONTROL

0053	630E03100 GROUND MOUNTED SUPPORT, NO. 3 POST	6.700	FT	\$15.12367	\$101.33
0054	630E07000 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18	39.900	FT	\$30.40227	\$1,213.05
0055	630E81020 CONCRETE MEDIAN BARRIER SIGN BRACKET	2.000	EACH	\$1,025.00000	\$2,050.00

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0056	630E82000 SIGN BACKING ASSEMBLY	1.000	EACH	\$130.81717	\$130.82
0057	630E84500 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	2.000	EACH	\$787.74858	\$1,575.50
0058	630E85100 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	3.000	EACH	\$54.77089	\$164.31
0059	630E85600 REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	1.000	EACH	\$340.68050	\$340.68
0060	630E86002 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	2.000	EACH	\$13.43488	\$26.87
0061	630E86102 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	2.000	EACH	\$168.48819	\$336.98
0062	644E50400 PAVEMENT MARKING, MISC.: WET REFLECTIVE SPRAY THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	0.450	MILE	\$2,000.00000	\$900.00

Total for Group 0600:\$6,839.54

**Group 0700:** MAINTENANCE OF TRAFFIC

0063	614E11110 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	300.000	HOUR	\$78.21680	\$23,465.04
0064	614E12336 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	5.000	EACH	\$2,269.08246	\$11,345.41
0065	614E12420 DETOUR SIGNING	1.000	LS	\$20,000.00000	\$20,000.00
0066	614E13310 BARRIER REFLECTOR, TYPE 1	119.000	EACH	\$7.94758	\$945.76
0067	614E13350 OBJECT MARKER, ONE WAY	119.000	EACH	\$12.15224	\$1,446.12
0068	614E18600 PORTABLE CHANGEABLE MESSAGE SIGN	96.000	SNMT	\$1,000.00000	\$96,000.00
0069	614E22210 WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	0.630	MILE	\$7,361.27671	\$4,637.60

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0070	614E24400 WORK ZONE DOTTED LINE, CLASS I, 740.06, TYPE I , 6"	780.000	FT	\$1.54234	\$1,203.03
0071	622E41000 PORTABLE BARRIER, 32"	13,700.000	FT	\$10.12154	\$138,665.10

Total for Group 0700:\$297,708.06

Group 0800: INCIDENTALS

0072	614E11000 MAINTAINING TRAFFIC 3% OF TCC	1.000	LS	\$200,000.00000	\$200,000.00
0073	619E16010 FIELD OFFICE, TYPE B	24.000	MNTH	\$1,488.99700	\$35,735.93
0074	623E10000 CONSTRUCTION LAYOUT STAKES AND SURVEYING 0.75% OF TCC	1.000	LS	\$42,300.00000	\$42,300.00
0075	624E10000 MOBILIZATION	1.000	LS	\$225,600.00000	\$225,600.00
0076	690E21000 SPECIAL - SURVEY CONTROL VERIFICATION	1.000	LS	\$5,000.00000	\$5,000.00
0077	990E30000 AGREED LUMP SUM 4% STAGE 3 CONTINGENCY	1.000	LS	\$300,000.00000	\$300,000.00

Total for Group 0800:\$808,635.93