

## Estimate 117607

Estimated Cost:\$6,886,542.76

Contingency: 5.30%

**Estimated Total: \$7,251,529.53**

FRA-161-15.80 NOISE WALLS - STAGE 2

**Base Date: 01/22/24**

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 NRS on 01/22/24*

*Checked by JDH on 01/22/24*

<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

0005	201E11000	1.000	LS	\$50,000.00000	\$50,000.00
CLEARING AND GRUBBING					
0006	202E75000	3,942.000	FT	\$2.84460	\$11,213.41
FENCE REMOVED					
0054	607E35000	170.000	FT	\$30.19967	\$5,133.94
FENCE REMOVED AND REBUILT					

Total for Group 0100:\$66,347.35

Group 0200: EROSION CONTROL

0009	659E00300	2,099.000	CY	\$31.42854	\$65,968.51
TOPSOIL					
0012	659E10000	18,908.578	SY	\$0.77860	\$14,722.22
SEEDING AND MULCHING					
0013	659E14000	946.000	SY	\$0.58079	\$549.43
REPAIR SEEDING AND MULCHING					
0014	659E15000	946.000	SY	\$0.16022	\$151.57
INTER-SEEDING					
0015	659E20000	2.560	TON	\$504.43085	\$1,291.34
COMMERCIAL FERTILIZER					
0016	659E31000	3.910	ACRE	\$64.29039	\$251.38
LIME					
0017	659E35000	105.000	MGAL	\$0.82036	\$86.14
WATER					
0018	832E15000	1.000	LS	\$10,000.00000	\$10,000.00
STORM WATER POLLUTION PREVENTION PLAN					
Include 832E15002 and 832E15010 at Stage 3.					
0019	832E30000	169,664.000	EACH	\$1.00000	\$169,664.00
EROSION CONTROL					

ARCADIS  
RESPONSE:  
COMPLIED

Total for Group 0200:\$262,684.59

Group 0300: DRAINAGE

<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>					
0021	605E13300	8,525.000	FT	\$7.07513	\$60,315.48
6" UNCLASSIFIED PIPE UNDERDRAINS					
0022	611E00510	516.000	FT	\$26.19896	\$13,518.66
6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
0024	611E99710	23.000	EACH	\$284.56885	\$6,545.08
PRECAST REINFORCED CONCRETE OUTLET					
<b>Total for Group 0300:</b>					<b>\$80,379.22</b>

**Group 0400: PAVEMENT**

0035	254E01000	4,822.000	SY	\$3.05732	\$14,742.40
PAVEMENT PLANING, ASPHALT CONCRETE , 3"					
0036	304E20000	997.000	CY	\$69.34045	\$69,132.43
AGGREGATE BASE					
0037	407E10000	219.000	GAL	\$2.15158	\$471.20
TACK COAT (APPLIED AT A RATE 0.055 GAL/SY)					
0038	407E20000	760.000	GAL	\$3.11877	\$2,370.27
NON-TRACKING TACK COAT (APPLIED AT A RATE 0.085 GAL/SY)					
0039	442E10000	192.000	CY	\$207.10707	\$39,764.56
ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)					
0040	442E10100	278.000	CY	\$175.25806	\$48,721.74
ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)					
0041	451E13010	1,802.000	SY	\$96.89474	\$174,604.32
8" REINFORCED CONCRETE PAVEMENT, CLASS QC1					
0042	451E14010	1,146.000	SY	\$77.73877	\$89,088.63
9" REINFORCED CONCRETE PAVEMENT, CLASS QC1					
<b>Total for Group 0400:</b>					<b>\$438,895.55</b>

**Group 0500: NOISE BARRIERS**

0025	519E11101	4.000	SF	\$236.00000	\$944.00
PATCHING CONCRETE STRUCTURE, AS PER PLAN					
0026	606E10210	115,570.000	SF	\$32.07000	\$3,706,329.90
SPECIAL - NOISE BARRIER (REFLECTIVE), OVER 10' TO 14' HEIGHT					

<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>				
0047	606E26150 ANCHOR ASSEMBLY, MGS TYPE E	3.000	EACH	\$2,158.94873	\$6,476.85
0048	606E35000 BRIDGE TERMINAL ASSEMBLY, TYPE 1 MGS	4.000	EACH	\$1,714.72258	\$6,858.89
0049	622E90000 BARRIER, MISC.: 81" SINGLE SLOPE BARRIER NOISE WALL	3,622.000	FT	\$185.00000	\$670,070.00
0050	622E90200 BARRIER, MISC.: 81" SINGLE SLOPE BARRIER NOISE WALL, END ANCHORAGE, REINFORCED	29.000	EACH	\$15,000.00000	\$435,000.00
0051	622E90200 BARRIER, MISC.: BARRIER DRAINAGE WINDOW SECTION	14.000	EACH	\$7,400.00000	\$103,600.00
0053	622E90200 BARRIER, MISC.: 81" CONCRETE BARRIER END SECTION	6.000	EACH	\$15,000.00000	\$90,000.00
0055	633E67201 CONTROLLER WORK PAD, AS PER PLAN	1.000	EACH	\$1,000.00000	\$1,000.00

ARCADIS  
RESPONSE:  
COMPLIED BY  
SWITCHING TO  
35002. WE  
ALSO USED  
35102 FOR  
TYPE 2 BTA.

Total for Group 0500:\$5,020,279.64

Group 0600: MAINTENANCE OF TRAFFIC

0028	614E11110 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	300.000	HOUR	\$78.21680	\$23,465.04
0029	614E12336 WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	5.000	EACH	\$2,269.08246	\$11,345.41
0030	614E12484 WORK ZONE INCREASED PENALTIES SIGN	2.000	EACH	\$154.69000	\$309.38
0043	614E22210 WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	0.480	MILE	\$7,361.27671	\$3,533.41
0044	614E23410 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I	410.000	FT	\$4.00000	\$1,640.00
0045	614E24400 WORK ZONE DOTTED LINE, CLASS I, 740.06, TYPE I	478.000	FT	\$1.54234	\$737.24
0046	622E41000 PORTABLE BARRIER, 32"	5,804.000	FT	\$30.00000	\$174,120.00

Total for Group 0600:\$215,150.48

<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 0700: INCIDENTALS

0031	614E11000 MAINTAINING TRAFFIC 3% OF TCC	1.000	LS	\$169,170.00000	\$169,170.00
0032	619E16010 FIELD OFFICE, TYPE B	24.000	MNTH	\$1,488.99700	\$35,735.93
0033	623E10000 CONSTRUCTION LAYOUT STAKES AND SURVEYING 0.75% OF TCC	1.000	LS	\$42,300.00000	\$42,300.00
0034	624E10000 MOBILIZATION	1.000	LS	\$225,600.00000	\$225,600.00
0052	990E30000 AGREED LUMP SUM 5% STAGE 2 CONTINGENCY	1.000	LS	\$330,000.00000	\$330,000.00

Total for Group 0700:\$802,805.93