



COMMONWEALTH OF KENTUCKY

Matthew G. Bevin
Governor

February 5, 2016

CALL NO. 200
CONTRACT ID NO. 161010
ADDENDUM # 1

Subject: Franklin County, 037GR16D010
Letting February 19, 2016

- (1) Revised - Plan Sheets - R2A & R2B
- (2) Revised - Material Summary - Pages 143-146 of 211
- (3) Revised - Bid Items - Pages 209-211 of 211
- (4) Added - Note - Pages 1-3 of 3

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	MAINLINE	DIVERSION	ENTRANCE	PROJECT TOTALS
01000	PERFORATED PIPE-4 IN	LF	64			64
01982	DELINEATOR FOR GUARDRAIL-M/W	EACH	4			4
02014	BARRICADE-TYPE III	EACH	4			4
02220	FLOWABLE FILL ⑨	CUYD	184			184
02230	EMBANKMENT IN PLACE ⑪ ⑫	CUYD	1909			1909
02351	GUARDRAIL-STEEL W BEAM-S FACE	LF	212.5			212.5
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH	2			2
02381	REMOVE GUARDRAIL	LF	475			475
02391	GUARDRAIL END TREATMENT TYPE 4A	EACH	2			2
02396	REMOVE GUARDRAIL END TREATMENT	EACH	4			4
02429	RIGHT-OF -WAY MONUMENT TYPE 1	EACH	6			6
02432	WITNESS POST	EACH	6			6
02545	CLEARING AND GRUBBING ⑤	LS	1			1
02562	SIGNS - TEMPORARY	SOFT	295			295
02569	DEMobilIZATION	LS	1			1
02585	EDGE KEY ⑧	LF	47			47
02597	FABRIC-GEOTEXTILE TYPE II	SQYD	9			9
02599	FABRIC-GEOTEXTILE TYPE IV	SQYD	390			390
02650	MAINTAIN AND CONTROL TRAFFIC	LS	1			1
02651	DIVERSIONS (BY-PASS DETOURS) ⑩	LS		1		1
02701	TEMPORARY SILT FENCE ⑥	LF	168			168
02703	SILT TRAP TYPE "A" ⑥	EACH	3			3
02704	SILT TRAP TYPE "B" ⑥	EACH	3			3
02706	CLEAN SILT TRAP TYPE "A" ⑥	EACH	9			9
02707	CLEAN SILT TRAP TYPE "B" ⑥	EACH	9			9
02709	CLEAN TEMPORARY SILT FENCE ⑥	LF	168			168
02726	STAKING	LS	1			1
02731	REMOVE STRUCTURE	LS	1			1
05950	EROSION CONTROL BLANKET ⑥	SQYD	180			180
05952	TEMPORARY MULCH ⑥	SQYD	8228			8228
05953	TEMP SEEDING AND PROTECTION ⑥	SQYD	8228			8228
05963	INITIAL FERTILIZER ⑥	TON	.09			.09
05964	20-10-10 FERTILIZER ⑥	TON	.50			.50
05985	SEEDING AND PROTECTION ⑥	SQYD	7253			7253
05992	AG LIMESTONE ⑥	TON	5			5
06514	PAVE STRIPING-PERM PAINT-4 IN ⑦	LF	1340			1340

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	MAINLINE ENTRANCES	DIVERSION	TOTAL PROJECT
00001	DGA ①	TON	196	51	236	483
00078	CRUSHED AGGREGATE SIZE NO 2 ⑨	TON	628			628
00080	CRUSHED AGGREGATE SIZE NO 23 ⑬	TON	114			114
00221	CL 2 ASPH BASE 0.75D PG64-22	TON	352	23	151	526
00301	CL 2 ASPH SURF 0.38D PG64-22	TON	83 ②	14		97
00103	ASPHALT SEAL COAT ③	TON	.58			.58
00100	ASPHALT SEAL AGGREGATE ④	TON	4.82			4.82

PAVING AREAS

ITEM CODE	ITEM	MAINLINE	MAINLINE ENTRANCES	DIVERSION	TOTAL PROJECT
		S Q U A R E Y A R D S			
00001	DGA	1008	225	685	1918
00078	CRUSHED AGGREGATE SIZE NO 2	1101			1101
00080	CRUSHED AGGREGATE SIZE NO 23	200			200
00221	7 1/2" CL 2 ASPH BASE 0.75D PG64-22 (3-2 1/2" COURSES)	853			853
00221	2" CL 2 ASPH BASE 0.75D PG64-22 (1-2" COURSE)		198		198
00221	4" CL 2 ASPH BASE 0.75D PG64-22 (2-2" COURSES)			685	685
00301	1 1/4" CL 2 ASPH SURF 0.38D PG64-22	845	196		1041
00103	ASPHALT SEAL COAT	241		311	552
00100	ASPHALT SEAL AGGREGATE	241		311	552

<i>Mainline Earthwork Quantities</i>	
<i>Com</i>	= 1392
<i>Emb</i>	= 1909

<i>Diversion Earthwork Quantities Sta. 3+55 to 7+78</i>	
<i>Com</i>	= 10
<i>Emb</i>	= 1941

COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	05-1057.00	R2A

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② INCLUDES 25 TONS FOR OVERLAY STA. 298+10 TO STA. 298+80 (13 TONS) STA. 302+15 TO STA. 302+80 (12 TONS)
- ③ 2.4 LB PER SQ. YD. FOR 2 APPLICATIONS
- ④ 20 LB PER SQ. YD. FOR 2 APPLICATIONS
- ⑤ APPROX. 1.3 ACRES
- ⑥ FOR EROSION CONTROL MEASURES
- ⑦ 640 LF. PERMANENT WHITE PAVEMENT EDGES, 640 LF. PERMANENT YELLOW CENTERLINE.
- ⑧ THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR, AND EQUIPMENT TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL. SEE TAPERING OF OVLAYS ON LOW SPEED FACILITIES SHEET R2.
- ⑨ FOR ABUTMENT BACKFILL ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ⑩ DIVERSION INCIDENTAL ITEMS INCLUDED BUT NOT LIMITED TO THE FOLLOWING.
 - EMBANKMENT
 - TEMPORARY PIPE
 - TEMPORARY STRUCTURE
 - TUBULAR MARKERS
 - TEMPORARY STRIPING
 - REMOVAL OF TEMPORARY STRUCTURE
 - REMOVAL OF ALL DIVERSION ITEMS.
- ⑪ 1084 CUBIC YARDS WERE ADDED FOR FOUNDATION EMBANKMENT BENCHES.
- ⑫ THE EARTHWORK SHOWN IS FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ANY WASTE MATERIAL.
- ⑬ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH. FOR USE DESCRIBED ON SHEET R22. GEOTECHNICAL NOTES SHEET. IF ENCOUNTERED.

FILE NAME: G:\PWORK\PATRICK_STONE\0857892\ROO20ASU.DGN

USER: Patrick.stone
DATE PLOTTED: February 5, 2016

E-SHEET NAME: ROO20ASU

MicroStation v8.11.7.443

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	MAINLINE	DIVERSION	ENTRANCE	PROJECT TOTALS
01000	PERFORATED PIPE-4 IN	LF	64			64
01982	DELINEATOR FOR GUARDRAIL-M/W	EACH	4			4
02014	BARRICADE-TYPE III	EACH	4			4
02220	FLOWABLE FILL ⑨	CUYD	184			184
02230	EMBANKMENT IN PLACE ⑪ ⑫	CUYD	1909			1909
02351	GUARDRAIL-STEEL W BEAM-S FACE	LF	212.5			212.5
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH	2			2
02381	REMOVE GUARDRAIL	LF	475			475
02391	GUARDRAIL END TREATMENT TYPE 4A	EACH	2			2
02396	REMOVE GUARDRAIL END TREATMENT	EACH	4			4
02429	RIGHT-OF -WAY MONUMENT TYPE 1	EACH	6			6
02432	WITNESS POST	EACH	6			6
02545	CLEARING AND GRUBBING ⑤	LS	1			1
02562	SIGNS - TEMPORARY	SOFT	295			295
02569	DEMobilIZATION	LS	1			1
02585	EDGE KEY ⑧	LF	47			47
02597	FABRIC-GEOTEXTILE TYPE II	SQYD	9			9
02599	FABRIC-GEOTEXTILE TYPE IV	SQYD	390			390
02650	MAINTAIN AND CONTROL TRAFFIC	LS	1			1
02651	DIVERSIONS (BY-PASS DETOURS) ⑩	LS		1		1
02701	TEMPORARY SILT FENCE ⑥	LF	168			168
02703	SILT TRAP TYPE "A" ⑥	EACH	3			3
02704	SILT TRAP TYPE "B" ⑥	EACH	3			3
02706	CLEAN SILT TRAP TYPE "A" ⑥	EACH	9			9
02707	CLEAN SILT TRAP TYPE "B" ⑥	EACH	9			9
02709	CLEAN TEMPORARY SILT FENCE ⑥	LF	168			168
02726	STAKING	LS	1			1
02731	REMOVE STRUCTURE	LS	1			1
05950	EROSION CONTROL BLANKET ⑥	SQYD	180			180
05952	TEMPORARY MULCH ⑥	SQYD	8228			8228
05953	TEMP SEEDING AND PROTECTION ⑥	SQYD	8228			8228
05963	INITIAL FERTILIZER ⑥	TON	.09			.09
05964	20-10-10 FERTILIZER ⑥	TON	.50			.50
05985	SEEDING AND PROTECTION ⑥	SQYD	7253			7253
05992	AG LIMESTONE ⑥	TON	5			5
06514	PAVE STRIPING-PERM PAINT-4 IN ⑦	LF	1340			1340

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	MAINLINE ENTRANCES	DIVERSION	TOTAL PROJECT
00001	DGA ①	TON	196	51	236	483
00078	CRUSHED AGGREGATE SIZE NO 2 ⑨	TON	628			628
00080	CRUSHED AGGREGATE SIZE NO 23 ⑬	TON	114			114
00221	CL 2 ASPH BASE 0.75D PG64-22	TON	352	23	151	526
00301	CL 2 ASPH SURF 0.38D PG64-22	TON	83 ②	14		97
00103	ASPHALT SEAL COAT ③	TON	.58			.58
00100	ASPHALT SEAL AGGREGATE ④	TON	4.82			4.82

PAVING AREAS

ITEM CODE	ITEM	MAINLINE	MAINLINE ENTRANCES	DIVERSION	TOTAL PROJECT
		S Q U A R E Y A R D S			
00001	DGA	1008	225	685	1918
00078	CRUSHED AGGREGATE SIZE NO 2	1101			1101
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00221	7 1/2" CL 2 ASPH BASE 0.75D PG64-22 (3-2 1/2" COURSES)	853			853
00221	2" CL 2 ASPH BASE 0.75D PG64-22 (1-2" COURSE)		198		198
00221	4" CL 2 ASPH BASE 0.75D PG64-22 (2-2" COURSES)			685	685
00301	1 1/4" CL 2 ASPH SURF 0.38D PG64-22	845	196		1041
00103	ASPHALT SEAL COAT	241		311	552
00100	ASPHALT SEAL AGGREGATE	241		311	552

REMOVE PAVEMENT FROM NOTE

<i>Mainline Earthwork Quantities</i>	
<i>Com</i>	= 1392
<i>Emb</i>	= 1909

<i>Diversion Earthwork Quantities Sta. 3+55 to 7+78</i>	
<i>Com</i>	= 10
<i>Emb</i>	= 1941

COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	05-1057.00	R2A

REVISED 2-5-2016
NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.

② INCLUDES 25 TONS FOR OVERLAY STA. 298+10 TO STA. 298+80 (13 TONS) STA. 302+15 TO STA. 302+80 (12 TONS)

③ 2.4 LB PER SQ. YD. FOR 2 APPLICATIONS

④ 20 LB PER SQ. YD. FOR 2 APPLICATIONS

⑤ APPROX. 1.3 ACRES

⑥ FOR EROSION CONTROL MEASURES

⑦ 640 LF. PERMANENT WHITE PAVEMENT EDGES, 640 LF. PERMANENT YELLOW CENTERLINE.

⑧ THE CONTRACT UNIT PRICE BID PER LINEAR FOOT FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR, AND EQUIPMENT TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL. SEE TAPERING OF OVLAYS ON LOW SPEED FACILITIES SHEET R2.

⑨ FOR ABUTMENT BACKFILL ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.

⑩ DIVERSION INCIDENTAL ITEMS INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
 - TEMPORARY PIPE
 - EMBANKMENT
 - TEMPORARY STRUCTURE
 - TUBULAR MARKERS
 - TEMPORARY STRIPING
 - REMOVAL OF TEMPORARY STRUCTURE
 - REMOVAL OF ALL DIVERSION ITEMS.

⑪ 1084 CUBIC YARDS WERE ADDED FOR FOUNDATION EMBANKMENT BENCHES.

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FILE NAME: G:\PWORK\PATRICK_STONE\0857892\0020ASU.DGN

USER: Patrick.stone
DATE PLOTTED: February 5, 2016

E-SHEET NAME: 0020ASU

MicroStation v8.11.7.443

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	MAINLINE	FLAG FORK RD. LT.	PROJECT TOTALS
01000	PERFORATED PIPE-4 IN	LF	30		30
01010	NON-PERFORATED PIPE-4 IN	LF	12		12
01020	PERFORATED PIPE HEADWALL TY. 1-4 IN	EACH	1		1
01987	DELINEATOR FOR GUARDRAIL-B/W	EACH	11		11
02014	BARRICADE-TYPE III	EACH	4	1	5
02091	REMOVE PAVEMENT	SY		16	16
02200	ROADWAY EXCAVATION ⑨ ⑰	CUYD	518	66	584
02220	FLOWABLE FILL ⑭ ⑰	CUYD	133		133
02231	STRUCTURE GRANULAR BACKFILL ⑭	CUYD	1410		1410
02351	GUARDRAIL-STEEL W BEAM-S FACE ⑪	LF	462.5	37.5	500
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH		1	1
02381	REMOVE GUARDRAIL	LF	355		355
02399	EXTRA LENGTH GUARDRAIL POST ⑰	EACH	10		10
02429	RIGHT-OF -WAY MONUMENT TYPE 1	EACH	6		6
02432	WITNESS POST	EACH	6		6
02484	CHANNEL LINING CLASS III ⑩	TON	255		255
02545	CLEARING AND GRUBBING ⑤	LS	1		1
02555	CONCRETE - CLASS B ⑫	CUYD	3		3
02562	SIGNS - TEMPORARY	SQFT	85	32.5	117.5
02569	DEMobilIZATION	LS	1		1
02596	FABRIC - GEOTEXTILE TYPE I ⑱	SY	150		150
02598	FABRIC - GEOTEXTILE TYPE III ②	SY	327		327
02599	FABRIC - GEOTEXTILE TYPE IV ⑳	SY	507	510	1017
02650	MAINTAIN AND CONTROL TRAFFIC	LS	1		1
02676	MOBILIZATION FOR MILL & TEXT	LS	1		1
02701	TEMPORARY SILT FENCE ⑥	LF	198		198
02703	SILT TRAP TYPE "A" ⑥	EACH	2		2
02704	SILT TRAP TYPE "B" ⑥	EACH	2		2
02706	CLEAN SILT TRAP TYPE "A" ⑥	EACH	6		6
02707	CLEAN SILT TRAP TYPE "B" ⑥	EACH	6		6
02726	STAKING	LS	1		1
02731	REMOVE STRUCTURE ⑬	LS	1		1
05950	EROSION CONTROL BLANKET ⑥	SOYD	500		500
05964	20-10-10 FERTILIZER ⑥	TON	.10		.10
05985	SEEDING AND PROTECTION ⑥	SOYD	2023		2023
06514	PAVE STRIPING-PERM PAINT-4 IN ⑦	LF	1580		1580
08003	FOUNDATION PREPARATION ⑮	LS	1		1
20694EN	ALUMINUM STRUCTURAL PLATE BOX CULVERT	LF	103.5		103.5
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3		3

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	FLAG FORK RD. LT.	TOTAL PROJECT
00001	DGA ①	TON	431	164	595
00078	CRUSHED AGGREGATE SIZE NO 2 ⑧	TON	48	49	97
00221	CL 2 ASPH BASE 0.75D PG64-22	TON	215	105	320
00301	CL 2 ASPH SURF 0.38D PG64-22	TON	76	18	94
00103	ASPHALT SEAL COAT ③	TON	.96	.18	1.14
00100	ASPHALT SEAL AGGREGATE ④	TON	7.96	1.54	9.5
00190	LEVELING AND WEDGING PG64-22	TON	25	5	30
02677	ASPHALT PAVE MILLING & TEXTURING	TON	42	2	44

PAVING AREAS

ITEM CODE	ITEM	MAINLINE	FLAG FORK RD. LT.	TOTAL PROJECT
		S Q U A R E Y A R D S		
00001	4" DGA	488		488
00001	8" DGA		238	238
00001	DGA SHOULDERS (ADJUSTED TO 1" THICKNESS)	5549	955	6504
00078	CRUSHED AGGREGATE SIZE NO 2 (ADJUSTED TO 1" THICKNESS) ⑧	1013	1020	2033
00221	3" CL 2 ASPH BASE 0.75D PG64-22 (1-3" COURSE)		238	238
00221	8" CL 2 ASPH BASE 0.75D PG64-22 (2 1/2"+ 2-2 3/4" COURSES)	488		488
00301	1 1/4" CL 2 ASPH SURF 0.38D PG64-22	1104	257	1361
00103	ASPHALT SEAL COAT	398	77	475
00100	ASPHALT SEAL AGGREGATE	398	77	475
02677	ASPHALT PAVE MILLING & TEXTURING	616	19	635

COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	05-1059.00	R2B

REVISED 2/3/2016

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② FOR EMBANKMENT BENCHING
- ③ 2.4 LB PER SQ. YD. FOR 2 APPLICATIONS
- ④ 20 LB PER SQ. YD. FOR 2 APPLICATIONS
- ⑤ APPROX. 0.773 ACRES
- ⑥ FOR EROSION CONTROL MEASURES
- ⑦ 790 LF. PERMANENT WHITE PAVEMENT EDGES. 790 LF. PERMANENT YELLOW CENTERLINE.
- ⑧ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH. FOR USE DESCRIBED ON SHEET R20a. GEOTECHNICAL NOTES SHEET. IF ENCOUNTERED.
- ⑨ INCLUDES 215 CY FOR FOUNDATION EMBANKMENT BENCHES AND 153 CY FOR DITCHING.
- ⑩ INCLUDES 200 TONS FOR SLOPE AND BANK STABILIZATION AND 55 TONS FOR DITCHING.
- ⑪ TIMBER POST ONLY WHEN ENCASED IN CONCRETE.
- ⑫ FOR CONCRETE ENCASEMENT OF TIMBER GUARDRAIL POSTS WITHIN LIMITS OF CULVERT.
- ⑬ INCLUDES EXISTING WINGWALL AND RETAINING WALL REMOVAL. PORTIONS OF EXISTING SUBSTRUCTURE WILL REMAIN IN PLACE AT THE DISCRETION OF THE ENGINEER TO DOWELL INTO FOR PROPOSED HEADWALL/WINGWALL CONSTRUCTION AND TO SUPPORT EXISTING ROADWAY EMBANKMENT DURING CONSTRUCTION.
- ⑭ CROSS-SECTION END AREAS WERE USED TO CALCULATE VOLUMES FOR THESE ITEMS. ACTUAL QUANTITIES AND PLACEMENT OF THESE ITEMS WILL BE AS DIRECTED BY THE ENGINEER IN AN AREA BOUNDED BY A 1:1 SLOPE FROM THE CULVERT BOTTOM TO REFILL THE CULVERT EXCAVATION.
- ⑮ CONTRARY TO SPECIFICATIONS AND SPECIAL 9V, IF SOLID ROCK IS ENCOUNTERED, IT SHALL BE EXCAVATED AS REQUIRED BY ENGINEER AS INCIDENTAL TO FOUNDATION PREPARATION. ALL EXCAVATION WITHIN A 2:1 SLOPE OF PROPOSED CULVERT INVERT SHALL BE INCIDENTAL TO FOUNDATION PREPARATION.

- ⑯ FLOWABLE FILL AS REQUIRED BY THE ENGINEER SHALL NOT BE INCIDENTAL BUT SHALL BE PAID AS FLOWABLE FILL TO ALUMINUM STRUCTURE PLATE BOX CULVERT.
- ⑰ TO BE USED AT ENGINEER DISCRETION.
- ⑱ TO BE USED IN CONJUNCTION WITH CHANNEL LINING CLASS III FOR SLOPE AND BANK STABILIZATION AS DIRECTED BY THE ENGINEER.
- ⑲ THE EARTHWORK SHOWN IS FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ANY WASTE MATERIAL.
- ⑳ FOR USE DESCRIBED ON SHEET R20a. GEOTECHNICAL NOTES SHEET. IF ENCOUNTERED.

Mainline Earthwork Quantities Sta. 301+35 to Sta. 305+30	
Com	= 150
Emb	= 205
Emb Bench	= 215
Granular Emb.	= 1410
Flowable Fill	= 133
Ditch Rt.	= 153

Appr. Lt. Flag Fork Rd. Earthwork Quantities Sta. 48+40 to 49+74.95	
Com	= 66
Emb	= 2

FILE NAME: G:\PWORK\TROY.WOODYARD\0859633\ROO20BSU.DGN

USER: troy.woodyard
DATE PLOTTED: August 6, 2015

E-SHEET NAME: ROO20BSU

MicroStation v8.11.9.459

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	MAINLINE	FLAG FORK RD. LT.	PROJECT TOTALS
01000	PERFORATED PIPE-4 IN	LF	30		30
01010	NON-PERFORATED PIPE-4 IN	LF	12		12
01020	PERFORATED PIPE HEADWALL TY. 1-4 IN	EACH	1		1
01987	DELINEATOR FOR GUARDRAIL-B/W	EACH	11		11
02014	BARRICADE-TYPE III	EACH	4	1	5
02091	REMOVE PAVEMENT	SY		16	16
02200	ROADWAY EXCAVATION (9) (19)	CUYD	518	66	584
02220	FLOWABLE FILL (14) (16)	CUYD	133		133
02231	STRUCTURE GRANULAR BACKFILL (14)	CUYD	1410		1410
02351	GUARDRAIL-STEEL W BEAM-S FACE (11)	LF	462.5	37.5	500
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH		1	1
02381	REMOVE GUARDRAIL	LF	355		355
02399	EXTRA LENGTH GUARDRAIL POST (17)	EACH	10		10
02429	RIGHT-OF -WAY MONUMENT TYPE 1	EACH	6		6
02432	WITNESS POST	EACH	6		6
02484	CHANNEL LINING CLASS III (10)	TON	255		255
02545	CLEARING AND GRUBBING (5)	LS	1		1
02555	CONCRETE - CLASS B (12)	CUYD	3		3
02562	SIGNS - TEMPORARY	SQFT	85	32.5	117.5
02569	DEMobilIZATION	LS	1		1
02596	FABRIC - GEOTEXTILE TYPE I (18)	SY	150		150
02598	FABRIC - GEOTEXTILE TYPE III (2)	SY	327		327
02599	FABRIC - GEOTEXTILE TYPE IV (20)	SY	507	510	1017
02650	MAINTAIN AND CONTROL TRAFFIC	LS	1		1
02676	MOBILIZATION FOR MILL & TEXT	LS	1		1
02701	TEMPORARY SILT FENCE (6)	LF	198		198
02703	SILT TRAP TYPE "A" (6)	EACH	2		2
02704	SILT TRAP TYPE "B" (6)	EACH	2		2
02706	CLEAN SILT TRAP TYPE "A" (6)	EACH	6		6
02707	CLEAN SILT TRAP TYPE "B" (6)	EACH	6		6
02726	STAKING	LS	1		1
02731	REMOVE STRUCTURE (13)	LS	1		1
05950	EROSION CONTROL BLANKET (6)	SOYD	500		500
05964	20-10-10 FERTILIZER (6)	TON	.10		.10
05985	SEEDING AND PROTECTION (6)	SOYD	2023		2023
06514	PAVE STRIPING-PERM PAINT-4 IN (7)	LF	1580		1580
08003	FOUNDATION PREPARATION (15)	LS	1		1
20694EN	ALUMINUM STRUCTURAL PLATE BOX CULVERT	LF	103.5		103.5
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3		3

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	FLAG FORK RD. LT.	TOTAL PROJECT
00001	DGA (1)	TON	431	164	595
00078	CRUSHED AGGREGATE SIZE NO 2 (8)	TON	48	49	97
00221	CL 2 ASPH BASE 0.75D PG64-22	TON	215	105	320
00301	CL 2 ASPH SURF 0.38D PG64-22	TON	76	18	94
00103	ASPHALT SEAL COAT (3)	TON	.96	.18	1.14
00100	ASPHALT SEAL AGGREGATE (4)	TON	7.96	1.54	9.5
00190	LEVELING AND WEDGING PG64-22	TON	25	5	30
02677	ASPHALT PAVE MILLING & TEXTURING	TON	42	2	44

PAVING AREAS

ITEM CODE	ITEM	MAINLINE	FLAG FORK RD. LT.			TOTAL PROJECT
		S Q U A R E Y A R D S				
00001	4" DGA	488				488
00001	8" DGA		238			238
00001	DGA SHOULDERS (ADJUSTED TO 1" THICKNESS)	5549	955			6504
00078	CRUSHED AGGREGATE SIZE NO 2 (ADJUSTED TO 1" THICKNESS) (8)	1013	1020			2033
00221	3" CL 2 ASPH BASE 0.75D PG64-22 (1-3" COURSE)		238			238
00221	8" CL 2 ASPH BASE 0.75D PG64-22 (2 1/2"+ 2-2 3/4" COURSES)	488				488
00301	1 1/4" CL 2 ASPH SURF 0.38D PG64-22	1104	257			1361
00103	ASPHALT SEAL COAT	398	77			475
00100	ASPHALT SEAL AGGREGATE	398	77			475
02677	ASPHALT PAVE MILLING & TEXTURING	616	19			635

COUNTY OF	ITEM NO.	SHEET NO.
FRANKLIN	05-1059.00	R2B

REVISED 2/3/2016

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- (1) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- (2) FOR EMBANKMENT BENCHING
- (3) 2.4 LB PER SQ. YD. FOR 2 APPLICATIONS
- (4) 20 LB PER SQ. YD. FOR 2 APPLICATIONS
- (5) APPROX. 0.773 ACRES
- (6) FOR EROSION CONTROL MEASURES
- (7) 790 LF. PERMANENT WHITE PAVEMENT EDGES. 790 LF. PERMANENT YELLOW CENTERLINE.
- (8) ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH. FOR USE DESCRIBED ON SHEET R20a. GEOTECHNICAL NOTES SHEET. IF ENCOUNTERED.
- (9) INCLUDES 215 CY FOR FOUNDATION EMBANKMENT BENCHES AND 153 CY FOR DITCHING.
- (10) INCLUDES 200 TONS FOR SLOPE AND BANK STABILIZATION AND 55 TONS FOR DITCHING.
- (11) TIMBER POST ONLY WHEN ENCASED IN CONCRETE.
- (12) FOR CONCRETE ENCASEMENT OF TIMBER GUARDRAIL POSTS WITHIN LIMITS OF CULVERT.
- (13) INCLUDES EXISTING WINGWALL AND RETAINING WALL REMOVAL. PORTIONS OF EXISTING SUBSTRUCTURE WILL REMAIN IN PLACE AT THE DISCRETION OF THE ENGINEER TO DOWELL INTO FOR PROPOSED HEADWALL/WINGWALL CONSTRUCTION AND TO SUPPORT EXISTING ROADWAY EMBANKMENT DURING CONSTRUCTION.
- (14) CROSS-SECTION END AREAS WERE USED TO CALCULATE VOLUMES FOR THESE ITEMS. ACTUAL QUANTITIES AND PLACEMENT OF THESE ITEMS WILL BE AS DIRECTED BY THE ENGINEER IN AN AREA BOUNDED BY A 1:1 SLOPE FROM THE CULVERT BOTTOM TO REFILL THE CULVERT EXCAVATION.
- (15) CONTRARY TO SPECIFICATIONS AND SPECIAL 9V, IF SOLID ROCK IS ENCOUNTERED, IT SHALL BE EXCAVATED AS REQUIRED BY ENGINEER AS INCIDENTAL TO FOUNDATION PREPARATION. ALL EXCAVATION WITHIN A 2:1 SLOPE OF PROPOSED CULVERT INVERT SHALL BE INCIDENTAL TO FOUNDATION PREPARATION.
- (16) FLOWABLE FILL AS REQUIRED BY THE ENGINEER SHALL NOT BE INCIDENTAL BUT SHALL BE PAID AS FLOWABLE FILL TO ALUMINUM STRUCTURE PLATE BOX CULVERT.
- (17) TO BE USED AT ENGINEER DISCRETION.
- (18) TO BE USED IN CONJUNCTION WITH CHANNEL LINING CLASS III FOR SLOPE AND BANK STABILIZATION AS DIRECTED BY THE ENGINEER.
- (19) THE EARTHWORK SHOWN IS FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ANY WASTE MATERIAL.
- (20) FOR USE DESCRIBED ON SHEET R20a. GEOTECHNICAL NOTES SHEET. IF ENCOUNTERED.

Mainline Earthwork Quantities Sta. 301+35 to Sta. 305+30	
Com	= 150
Emb	= 205
Emb Bench	= 215
Granular Emb.	= 1410
Flowable Fill	= 133
Ditch Rt.	= 153

Appr. Lt. Flag Fork Rd. Earthwork Quantities Sta. 48+40 to 49+74.95	
Com	= 66
Emb	= 2

FILE NAME: G:\PWORK\TROY.WOODYARD\0859633\ROO20BSU.DGN

USER: troy.woodyard
DATE PLOTTED: August 6, 2015

E-SHEET NAME: ROO20BSU

MicroStation v8.11.9.459

MATERIAL SUMMARY

CONTRACT ID: 161010

037GR16D010

DE03704211610

US-421 OVER FLAT CREEK REPLACE BRIDGE ON US-421(MP 13.09) OVER FLAT CREEK 2.0 MILE NORTH OF JCT KY-12. BRIDGE REPLACEMENT.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	483.00	TON
0010	00078	CRUSHED AGGREGATE SIZE NO 2	628.00	TON
0015	00080	CRUSHED AGGREGATE SIZE NO 23	114.00	TON
0020	00100	ASPHALT SEAL AGGREGATE	4.82	TON
0025	00103	ASPHALT SEAL COAT	.58	TON
0030	00221	CL2 ASPH BASE 0.75D PG64-22	526.00	TON
0035	00301	CL2 ASPH SURF 0.38D PG64-22	97.00	TON
0040	01000	PERFORATED PIPE-4 IN	64.00	LF
0045	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	4.00	EACH
0050	02014	BARRICADE-TYPE III	4.00	EACH
0055	02220	FLOWABLE FILL	184.00	CUYD
0060	02230	EMBANKMENT IN PLACE	1,909.00	CUYD
0065	02351	GUARDRAIL-STEEL W BEAM-S FACE	212.50	LF
0070	02360	GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH
0075	02381	REMOVE GUARDRAIL	475.00	LF
0080	02391	GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH
0085	02396	REMOVE GUARDRAIL END TREATMENT	4.00	EACH
0090	02429	RIGHT-OF-WAY MONUMENT TYPE 1	6.00	EACH
0095	02432	WITNESS POST	6.00	EACH
0100	02545	CLEARING AND GRUBBING - 1.3 ACRES	1.00	LS
0105	02562	TEMPORARY SIGNS	295.00	SQFT
0110	02585	EDGE KEY	47.00	LF
0115	02597	FABRIC-GEOTEXTILE TYPE II	9.00	SQYD
0120	02599	FABRIC-GEOTEXTILE TYPE IV	390.00	SQYD
0125	02650	MAINTAIN & CONTROL TRAFFIC - (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0130	02651	DIVERSIONS (BY-PASS DETOURS)	1.00	LS
0135	02701	TEMP SILT FENCE	168.00	LF
0140	02703	SILT TRAP TYPE A	3.00	EACH
0145	02704	SILT TRAP TYPE B	3.00	EACH
0150	02706	CLEAN SILT TRAP TYPE A	9.00	EACH
0155	02707	CLEAN SILT TRAP TYPE B	9.00	EACH
0160	02726	STAKING - (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0165	02731	REMOVE STRUCTURE - (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0170	05950	EROSION CONTROL BLANKET	180.00	SQYD
0175	05952	TEMP MULCH	8,228.00	SQYD
0180	05953	TEMP SEEDING AND PROTECTION	8,228.00	SQYD
0185	05963	INITIAL FERTILIZER	.09	TON
0190	05964	20-10-10 FERTILIZER	.50	TON
0195	05985	SEEDING AND PROTECTION	7,253.00	SQYD
0200	05992	AGRICULTURAL LIMESTONE	5.00	TON

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0205	06514	PAVE STRIPING-PERM PAINT-4 IN	1,340.00	LF
0210	02355	GUARDRAIL-STEEL W BEAM-S FACE A	100.00	LF
0215	02998	MASONRY COATING	279.00	SQYD
0220	03299	ARMORED EDGE FOR CONCRETE	73.90	LF
0225	08001	STRUCTURE EXCAVATION-COMMON	1,457.00	CUYD
0230	08002	STRUCTURE EXCAV-SOLID ROCK	202.00	CUYD
0235	08100	CONCRETE-CLASS A	375.30	CUYD
0240	08104	CONCRETE-CLASS AA	37.20	CUYD
0245	08150	STEEL REINFORCEMENT	34,062.00	LB
0250	08151	STEEL REINFORCEMENT-EPOXY COATED	4,616.00	LB
0255	08664	PRECAST PC BOX BEAM CB27-48	548.00	LF
0260	08801	GUARDRAIL-STEEL W BEAM-S FACE BR	124.00	LF
0265	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 161010**037GR16D010****DE03704211611**

US-421 OVER LITTLE FLAT CREEK REPLACE BRIDGE ON US-421(MP 15.091) OVER LITTLE FLAT CREEK 3.8 MILE NORTH OF JCT KY-12. BRIDGE REPLACEMENT.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	595.00	TON
0010	00078	CRUSHED AGGREGATE SIZE NO 2	97.00	TON
0015	00100	ASPHALT SEAL AGGREGATE	9.50	TON
0020	00103	ASPHALT SEAL COAT	1.14	TON
0025	00190	LEVELING & WEDGING PG64-22	30.00	TON
0030	00221	CL2 ASPH BASE 0.75D PG64-22	320.00	TON
0035	00301	CL2 ASPH SURF 0.38D PG64-22	94.00	TON
0040	02677	ASPHALT PAVE MILLING & TEXTURING	44.00	TON
0045	01000	PERFORATED PIPE-4 IN	30.00	LF
0050	01010	NON-PERFORATED PIPE-4 IN	12.00	LF
0055	01020	PERF PIPE HEADWALL TY 1-4 IN	1.00	EACH
0060	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	11.00	EACH
0065	02014	BARRICADE-TYPE III	5.00	EACH
0070	02091	REMOVE PAVEMENT	16.00	SQYD
0075	02200	ROADWAY EXCAVATION	584.00	CUYD
0080	02220	FLOWABLE FILL	133.00	CUYD
0085	02231	STRUCTURE GRANULAR BACKFILL	1,410.00	CUYD
0090	02351	GUARDRAIL-STEEL W BEAM-S FACE	500.00	LF
0095	02360	GUARDRAIL TERMINAL SECTION NO 1	1.00	EACH
0100	02381	REMOVE GUARDRAIL	355.00	LF
0105	02399	EXTRA LENGTH GUARDRAIL POST	10.00	EACH
0110	02429	RIGHT-OF-WAY MONUMENT TYPE 1	6.00	EACH
0115	02432	WITNESS POST	6.00	EACH
0120	02484	CHANNEL LINING CLASS III	255.00	TON
0125	02545	CLEARING AND GRUBBING - 0.733 ACRES	1.00	LS
0130	02555	CONCRETE-CLASS B	3.00	CUYD
0135	02562	TEMPORARY SIGNS	117.50	SQFT

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0140	02596	FABRIC-GEOTEXTILE TYPE I	150.00	SQYD
0145	02598	FABRIC-GEOTEXTILE TYPE III	327.00	SQYD
0150	02599	FABRIC-GEOTEXTILE TYPE IV	1,017.00	SQYD
0155	02650	MAINTAIN & CONTROL TRAFFIC - (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0160	02671	PORTABLE CHANGEABLE MESSAGE SIGN - (REVISED: 2-5-16)	3.00	EACH
0165	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS
0170	02701	TEMP SILT FENCE	198.00	LF
0175	02703	SILT TRAP TYPE A	2.00	EACH
0180	02704	SILT TRAP TYPE B	2.00	EACH
0185	02706	CLEAN SILT TRAP TYPE A	6.00	EACH
0190	02707	CLEAN SILT TRAP TYPE B	6.00	EACH
0195	02726	STAKING - (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0200	02731	REMOVE STRUCTURE - (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS
0205	05950	EROSION CONTROL BLANKET	500.00	SQYD
0210	05964	20-10-10 FERTILIZER	.10	TON
0215	05985	SEEDING AND PROTECTION	2,023.00	SQYD
0220	06514	PAVE STRIPING-PERM PAINT-4 IN	1,580.00	LF
0225	08003	FOUNDATION PREPARATION	1.00	LS
0230	20694EN	ALUMINUM STRUCTURAL PLATE BOX CULVERT	103.50	LF
0235	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 161010**037GR16D010****DE03704211612**

US-421 OVER HUDSON CREEK REPLACE BRIDGE ON US-421(MP 14.059) OVER HUDSON CREEK 2.8 MILE NORTH OF JCT KY-12. BRIDGE REPLACEMENT.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	235.00	TON
0010	00100	ASPHALT SEAL AGGREGATE	4.13	TON
0015	00103	ASPHALT SEAL COAT	.52	TON
0020	00221	CL2 ASPH BASE 0.75D PG64-22	304.00	TON
0025	00301	CL2 ASPH SURF 0.38D PG64-22	57.00	TON
0030	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	3.00	EACH
0035	02014	BARRICADE-TYPE III	4.00	EACH
0040	02200	ROADWAY EXCAVATION	378.00	CUYD
0045	02230	EMBANKMENT IN PLACE	378.00	CUYD
0050	02351	GUARDRAIL-STEEL W BEAM-S FACE	97.00	LF
0055	02360	GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH
0060	02381	REMOVE GUARDRAIL	245.00	LF
0065	02391	GUARDRAIL END TREATMENT TYPE 4A	1.00	EACH
0070	02429	RIGHT-OF-WAY MONUMENT TYPE 1	4.00	EACH
0075	02432	WITNESS POST	4.00	EACH
0080	02545	CLEARING AND GRUBBING - 1.22 ACRES	1.00	LS

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0085	02562	TEMPORARY SIGNS	170.50	SQFT
0090	02585	EDGE KEY	40.00	LF
0095	02650	MAINTAIN & CONTROL TRAFFIC - (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS
0100	02701	TEMP SILT FENCE	135.00	LF
0105	02703	SILT TRAP TYPE A	2.00	EACH
0110	02704	SILT TRAP TYPE B	2.00	EACH
0115	02706	CLEAN SILT TRAP TYPE A	6.00	EACH
0120	02707	CLEAN SILT TRAP TYPE B	6.00	EACH
0125	02726	STAKING - (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS
0130	02731	REMOVE STRUCTURE - (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS
0135	05950	EROSION CONTROL BLANKET	110.00	SQYD
0140	05952	TEMP MULCH	2,090.00	SQYD
0145	05953	TEMP SEEDING AND PROTECTION	2,090.00	SQYD
0150	05963	INITIAL FERTILIZER	.04	TON
0155	05964	20-10-10 FERTILIZER	.05	TON
0160	05985	SEEDING AND PROTECTION	1,038.00	SQYD
0165	05992	AGRICULTURAL LIMESTONE	.64	TON
0170	06514	PAVE STRIPING-PERM PAINT-4 IN	795.00	LF
0175	21476ED	SNOW FENCE	80.00	LF
0180	21804EN	3-SIDED CULVERT	32.00	LF
0185	23274EN11F	TURF REINFORCEMENT MAT 1	110.00	SQYD
0190	30004	FIELD GATE	1.00	EACH
0195	00441	ENTRANCE PIPE-18 IN	26.00	LF
0200	02355	GUARDRAIL-STEEL W BEAM-S FACE A	100.00	LF
0205	08001	STRUCTURE EXCAVATION-COMMON	74.00	CUYD
0210	08002	STRUCTURE EXCAV-SOLID ROCK	5.00	CUYD
0215	08003	FOUNDATION PREPARATION	1.00	LS
0220	08801	GUARDRAIL-STEEL W BEAM-S FACE BR	38.00	LF
0225	02569	DEMOBILIZATION	1.00	LS

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 2-5-16

161010

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Report Date 2/5/16

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	1,313.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	725.00	TON		\$	
0030	00080		CRUSHED AGGREGATE SIZE NO 23	114.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	18.45	TON		\$	
0050	00103		ASPHALT SEAL COAT	2.24	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	30.00	TON		\$	
0070	00221		CL2 ASPH BASE 0.75D PG64-22	1,150.00	TON		\$	
0080	00301		CL2 ASPH SURF 0.38D PG64-22	248.00	TON		\$	
0090	02677		ASPHALT PAVE MILLING & TEXTURING	44.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0100	01000		PERFORATED PIPE-4 IN	94.00	LF		\$	
0110	01010		NON-PERFORATED PIPE-4 IN	12.00	LF		\$	
0120	01020		PERF PIPE HEADWALL TY 1-4 IN	1.00	EACH		\$	
0130	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	7.00	EACH		\$	
0140	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	11.00	EACH		\$	
0150	02014		BARRICADE-TYPE III	13.00	EACH		\$	
0160	02091		REMOVE PAVEMENT	16.00	SQYD		\$	
0170	02200		ROADWAY EXCAVATION	962.00	CUYD		\$	
0180	02220		FLOWABLE FILL	317.00	CUYD		\$	
0190	02230		EMBANKMENT IN PLACE	2,287.00	CUYD		\$	
0200	02231		STRUCTURE GRANULAR BACKFILL	1,410.00	CUYD		\$	
0210	02351		GUARDRAIL-STEEL W BEAM-S FACE	809.50	LF		\$	
0220	02360		GUARDRAIL TERMINAL SECTION NO 1	5.00	EACH		\$	
0230	02381		REMOVE GUARDRAIL	1,075.00	LF		\$	
0240	02391		GUARDRAIL END TREATMENT TYPE 4A	3.00	EACH		\$	
0250	02396		REMOVE GUARDRAIL END TREATMENT	4.00	EACH		\$	
0260	02399		EXTRA LENGTH GUARDRAIL POST	10.00	EACH		\$	
0270	02429		RIGHT-OF-WAY MONUMENT TYPE 1	16.00	EACH		\$	
0280	02432		WITNESS POST	16.00	EACH		\$	
0290	02484		CHANNEL LINING CLASS III	255.00	TON		\$	
0300	02545		CLEARING AND GRUBBING 1.22 ACRES	1.00	LS		\$	
0310	02545		CLEARING AND GRUBBING 1.3 ACRES	1.00	LS		\$	
0320	02545		CLEARING AND GRUBBING 0.733 ACRES	1.00	LS		\$	
0330	02555		CONCRETE-CLASS B	3.00	CUYD		\$	
0340	02562		TEMPORARY SIGNS	583.00	SQFT		\$	
0350	02585		EDGE KEY	87.00	LF		\$	
0360	02596		FABRIC-GEOTEXTILE TYPE I	150.00	SQYD		\$	
0370	02597		FABRIC-GEOTEXTILE TYPE II	9.00	SQYD		\$	
0380	02598		FABRIC-GEOTEXTILE TYPE III	327.00	SQYD		\$	
0390	02599		FABRIC-GEOTEXTILE TYPE IV	1,407.00	SQYD		\$	

161010

PROPOSAL BID ITEMS

Report Date 2/5/16

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	02650		MAINTAIN & CONTROL TRAFFIC (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0410	02650		MAINTAIN & CONTROL TRAFFIC (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0420	02650		MAINTAIN & CONTROL TRAFFIC (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0430	02651		DIVERSIONS (BY-PASS DETOURS)	1.00	LS		\$	
0440	02671		PORTABLE CHANGEABLE MESSAGE SIGN (REVISED: 2-5-16)	3.00	EACH		\$	
0450	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0460	02701		TEMP SILT FENCE	501.00	LF		\$	
0470	02703		SILT TRAP TYPE A	7.00	EACH		\$	
0480	02704		SILT TRAP TYPE B	7.00	EACH		\$	
0490	02706		CLEAN SILT TRAP TYPE A	21.00	EACH		\$	
0500	02707		CLEAN SILT TRAP TYPE B	21.00	EACH		\$	
0510	02726		STAKING (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0520	02726		STAKING (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0530	02726		STAKING (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0540	02731		REMOVE STRUCTURE (HUDSON CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0550	02731		REMOVE STRUCTURE (FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0560	02731		REMOVE STRUCTURE (LITTLE FLAT CREEK) (REVISED: 2-5-16)	1.00	LS		\$	
0570	05950		EROSION CONTROL BLANKET	790.00	SQYD		\$	
0580	05952		TEMP MULCH	10,318.00	SQYD		\$	
0590	05953		TEMP SEEDING AND PROTECTION	10,318.00	SQYD		\$	
0600	05963		INITIAL FERTILIZER	.13	TON		\$	
0610	05964		20-10-10 FERTILIZER	.65	TON		\$	
0620	05985		SEEDING AND PROTECTION	10,314.00	SQYD		\$	
0630	05992		AGRICULTURAL LIMESTONE	5.64	TON		\$	
0640	06514		PAVE STRIPING-PERM PAINT-4 IN	3,715.00	LF		\$	
0650	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0660	20694EN		ALUMINUM STRUCTURAL PLATE BOX CULVERT	103.50	LF		\$	
0670	21476ED		SNOW FENCE	80.00	LF		\$	
0680	21804EN		3-SIDED CULVERT	32.00	LF		\$	
0690	23274EN11F		TURF REINFORCEMENT MAT 1	110.00	SQYD		\$	
0700	30004		FIELD GATE	1.00	EACH		\$	

PROPOSAL BID ITEMS

161010

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Report Date 2/5/16

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0710	00441		ENTRANCE PIPE-18 IN	26.00	LF		\$	

Section: 0004 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0720	02355		GUARDRAIL-STEEL W BEAM-S FACE A	100.00	LF		\$	
0730	02998		MASONRY COATING	279.00	SQYD		\$	
0740	03299		ARMORED EDGE FOR CONCRETE	73.90	LF		\$	
0750	08001		STRUCTURE EXCAVATION-COMMON	1,457.00	CUYD		\$	
0760	08002		STRUCTURE EXCAV-SOLID ROCK	202.00	CUYD		\$	
0770	08100		CONCRETE-CLASS A	375.30	CUYD		\$	
0780	08104		CONCRETE-CLASS AA	37.20	CUYD		\$	
0790	08150		STEEL REINFORCEMENT	34,062.00	LB		\$	
0800	08151		STEEL REINFORCEMENT-EPOXY COATED	4,616.00	LB		\$	
0810	08664		PRECAST PC BOX BEAM CB27-48	548.00	LF		\$	
0820	08801		GUARDRAIL-STEEL W BEAM-S FACE BR	124.00	LF		\$	

Section: 0005 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0830	02355		GUARDRAIL-STEEL W BEAM-S FACE A	100.00	LF		\$	
0840	08001		STRUCTURE EXCAVATION-COMMON	74.00	CUYD		\$	
0850	08002		STRUCTURE EXCAV-SOLID ROCK	5.00	CUYD		\$	
0860	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0870	08801		GUARDRAIL-STEEL W BEAM-S FACE BR	38.00	LF		\$	

Section: 0006 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0880	02569		DEMOBILIZATION	1.00	LS		\$	

II

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/=>=>=>/	/MIN/SPEED/**MPH/
/KEEP/LEFT/←←←/	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/**/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012