



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

November 18, 2015

CALL NO. 308
CONTRACT ID NO. 151272
ADDENDUM # 2

Subject: Oldham County, FD04 SPP 093 NEW ROUTE
Letting November 20, 2015

(1) Revised - Plan Sheets - R2e & R149

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

REVISED 11-18-15

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-8708.00	R2E

ITEM	DESCRIPTION	UNIT	RING ROAD	KY 53	NEW MOODY LANE / NEW MOODY TIE-IN	BLAKEMORE LANE	TMP	MULTI USE PATH (LEFT)	MULTI USE PATH (RIGHT)	PROJECT TOTAL
1310	REMOVE PIPE	LF	196	182		39				417
1585	REMOVE DROP BOX INLET	LF	1							1
1811	STANDARD CURB AND GUTTER MOD	LF	35158							35158
1987	DELINEATOR FOR GUARDRAIL - BI-DIRECTIONAL WHITE	EACH		18						18
2014	BARRICADE-TYPE III	EACH					25			25
2091	REMOVE PAVEMENT	SOYD	323							323
2159	TEMP DITCH	LF								7700
2160	CLEAN TEMP DITCH	LF								3850
2200	ROADWAY EXCAVATION ⑪ ⑬	CUYD								351494
2223	GRANULAR EMBANKMENT ⑭	CUYD	135							135
2242	WATER ①	MGAL								2482
2351	GUARDRAIL - STEEL W BEAM - S FACE	LF	37.5	1012.5						1050
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	2							2
2367	GUARDRAIL END TREATMENT TYPE 1	EACH		2						2
2371	GUARDRAIL END TREATMENT TYPE 7	EACH					8			8
2381	REMOVE GUARDRAIL	LF		1789						1789
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH		3						3
2396	REMOVE GUARDRAIL END TREATMENT	EACH		5						5
2397	TEMP GUARDRAIL	LF					812.5			812.5
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	65	19	2					86
2432	WITNESS POST	EACH	65	19	2					86
2488	CHANNEL LINING CLASS IV ⑬	CUYD	4443	1112	277	127				5959
2545	CLEARING AND GRUBBING ②	LS								1
2555	CONCRETE-CLASS B	CUYD	302							302
2562	TEMPORARY SIGNS ⑤	SOFT					255			255
2568	MOBILIZATION	LS								1
2569	DEMOBILIZATION	LS								1
2585	EDGE KEY	LF	84	46	20	20				170
2596	FABRIC-GEOTEXTILE TYPE 1 ⑬	SOYD	6933	2432	487	301				10153
2599	FABRIC-GEOTEXTILE TYPE IV ⑭	SOYD								83300
2625	REMOVE HEADWALL	EACH	8	1		2				11
2650	MAINTAIN & CONTROL TRAFFIC ⑥	LS								1
2651	DIVERSIONS (BY-PASS DETOURS) ⑦	LS								1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH								4
2701	TEMP SILT FENCE ⑩	LF								31696
2703	SILT TRAP TYPE A	EACH								32
2704	SILT TRAP TYPE B	EACH								36
2705	SILT TRAP TYPE C	EACH								151
2706	CLEAN SILT TRAP TYPE A	EACH								32
2707	CLEAN SILT TRAP TYPE B	EACH								108
2708	CLEAN SILT TRAP TYPE C	EACH								453
2720	SIDEWALK-4 IN CONCRETE ⑧	SOYD					11737	12081		11737
2726	STAKING	LS								1
5950	EROSION CONTROL BLANKET ③ ⑬	SOYD	4611	1618	1273					34864
5952	TEMP MULCH	SOYD								117225
5953	TEMP SEEDING AND PROTECTION	SOYD								87919
5956	CORRECTIVE SEEDING-SEED ⑬	LBS								210
5963	INITIAL FERTILIZER	TON								8
5964	20-10-10 FERTILIZER	TON								13
5985	SEEDING AND PROTECTION	SOYD	122281	33430	7080	2331				165122
5990	SODDING ⑫	SOYD	42150							54231
5992	AGRICULTURAL LIMESTONE	TON								156
6510	PAVE STRIPING-TEMP PAINT-4 IN ⑨	LF								7500
6514	PAVE STRIPING-PERM PAINT-4 IN ⑨	LF	58072	11859			950	1050		70881
6516	PAVE STRIPING-PERM PAINT-8 IN ⑨	LF								583
6566	PAVE MARKING-THERMO X-WALK-12 IN ⑨	LF					2812	2751		2812
6568	PAVE MARKING-THERMO STOP BAR-24IN ⑨	LF								649
6574	PAVE MARKING-THERMO CURV ARROW ⑨	EACH								47
6575	PAVE MARKING-THERMO COMB ARROW ⑨	EACH								5
6576	PAVE MARKING-THERMO ONLY ⑨	EACH								2
8001	STRUCTURE EXCAVATION-COMMON ⑮	CUYD		674						674
8002	STRUCTURE EXCAVATION-SOLID ROCK ⑮	CUYD	1075							1075

NOTES:

- ① WATER IS FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC AND IS ESTIMATED @ 850 M GALLONS PER MILE
- ② APPROXIMATELY 71.23 ACRES
- ③ TOTAL INCLUDES AN ADDITIONAL 24492 SOYD FOR SLOPE STABILIZATION ON STEEP SLOPES
- ④ QUANTITY PROVIDED TO WRAP WORKING PLATFORM IN EMBANKMENT AREAS OR AS DIRECTED BY THE ENGINEER
- ⑤ FOR MAINTAINING AND CONTROLLING TRAFFIC DURING CONSTRUCTION
- ⑥ INCLUDES ALL NECESSARY ITEMS TO MAINTAIN & CONTROL TRAFFIC
- ⑦ INCLUDES ALL NECESSARY ITEMS TO CONSTRUCT AND REMOVE THE DIVERSION
- ⑧ INCLUDES RAMPS
- ⑨ SEE STRIPING SHEETS
- ⑩ INCLUDES AN ADDITIONAL QUANTITY FOR THE ORANGE SILT FENCE TO BE PLACED AT WETLANDS AND OTHER WATERS WITHIN CONSTRUCTION LIMITS AS DIRECTED BY THE ENGINEER. INCLUDES AN ADDITIONAL QUANTITY FOR 50' BUFFER PERIMETER (2 RUNS) AT THE SENSITIVE LOCATION AS DIRECTED BY THE ENGINEER. ORANGE SILT FENCE PAYMENT IS COVERED WITH THIS BID ITEM AND THERE WILL BE NO ADDITIONAL PAYMENT FOR SAID ITEM.
- ⑪ THE WORKING PLATFORM IS INCIDENTAL TO ROADWAY EXCAVATION AND NO PAYMENT WILL BE MADE FOR SAID ITEM. THE WORKING PLATFORM MAY CONSIST OF ROCK EMBANKMENT IN ACCORDANCE WITH SECTION 206 OF CURRENT SPECIFICATIONS
- ⑫ INCLUDES 12081 SOYD SODDING FOR MULTI USE PATH (RIGHT SIDE) AREA - MULTI USE PATH (RIGHT SIDE) WILL BE DONE BY OTHERS
- ⑬ INCLUDES ADDITIONAL QUANTITY FOR POND DEWATERING PLAN. SEE SHEET R128 FOR DETAILS.
- ⑭ FOR GRAVITY WALL
- ⑮ FOR 3-SIDED CULVERT

EARTHWORK CALCULATION NOTE:

ESTIMATE FOR EARTHWORK CALCULATIONS ARE FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.

EARTHWORK TOTALS

297606 CUYD COMMON
36763 CUYD ROCK (TOTAL ROCK = ROCK + REFILL)
9362 CUYD TRANSVERSE BENCHING
7763 CUYD POND GRADING
351494 CUYD TOTAL EXCAVATION
145057 CUYD EMBANKMENT
2217 CUYD REFILL
147274 CUYD TOTAL EMBANKMENT

FILE NAME: G:\PWORK\PATRICK.MATHENY\DI24137\ROO200ESU-11-18-15.DGN

USER: URS Corporation
DATE PLOTTED: November 18, 2015

E-SHEET NAME: ROO200ESU

MicroStation v8.11.7.443

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-8708.00	R2E

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 MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
OLDHAM	5-8708.00	R149

REVISED 11-18-15

GEOTECHNICAL NOTES

1. The contractor is responsible for conducting any operations necessary (such as construction of temporary drainage ditches, etc.) in order to excavate the cut areas to the required typical section. These operations shall be incidental to the roadway price.
2. Clearing and grubbing of roadway areas shall be completed in accordance with the requirements of Section 202 of the current Standard Specifications for Road and Bridge Construction before embankment placement.
3. The contractor shall construct foundation embankment benches and transverse benches as indicated on the plans and/or as directed by the Engineer, prior to placement of embankments in areas requiring such benches.
4. Any undercutting at or near grade due to soft or wet subsurface conditions shall be backfilled with structural soil fill for chemical stabilization. Positive drainage shall be maintained through the cut as directed by the Engineer.
5. The contractor shall conduct grading operations in such a manner that soil free of rock fragments larger than 4-inches from roadway excavation be stockpiled separately meeting the specifications in Section 208 of the current Standard Specifications for Road and Bridge Construction. No direct payment will be allowed for such necessary manipulating as stockpiling, hauling and/or handling the material.
6. Any saturated, unstable material encountered in the existing creek beds and/or drainage swales within embankment foundation limits shall be excavated and replaced with a one-foot thick layer of Rock Embankment in accordance with Sections 206 of the current Standard Specifications. KYTC No. 2, No. 3 or No. 23 sized stone wrapped with Type IV Geotextile Fabric in accordance with Sections 2014 and 843 of the current standard specifications will also be permitted. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. The placement of this material is incidental to the unit bid price for roadway excavation.
7. Excavation of surface ditches and channel changes adjacent to embankment areas shall be performed prior to the placement of the adjacent embankment. The material excavated for the channel changes and surface ditches is suitable for embankment construction if dried to proper moisture content in accordance with Section 206 of the current Standard Specifications.
8. To provide a working platform for embankment construction as needed in areas which are soft, saturated or yielding, a minimum one (1) foot thick layer of Rock Embankment in accordance with Sections 206 of the current Standard Specifications shall be installed in place of all soft and/or saturated foundation areas that may be detected during construction and/or to fill and stabilize the existing drains located within the limits of the roadway embankment construction, as directed by the Engineer. KYDOT No. 2, No. 3 or No. 23 sized stone wrapped with Type IV Geotextile Fabric in accordance with Sections 214 and 843 of the current Standard Specifications will also be accepted. Actual thickness and locations of the working platform will be determined by the Engineer during construction. The cost of placing the working platform shall be incidental to the unit price bid for roadway excavation.
9. In accordance with Section 206 of the current Standard Specifications, the moisture content of embankment subgrade material shall not vary from the optimum moisture content as determined by AASHTO T99 by more than +2 percent or less than -2 percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment or subgrade construction. The published KTC family of curves and/or the laboratory determined moisture-density curves will be used to establish the moisture-density criteria in the field.
10. All soils, whether from roadway or borrow, may require manipulation to obtain proper moisture content prior to compaction. Direct payment shall not be permitted for re-handling, hauling, stockpiling, and/or manipulating soils.
11. The majority of soil horizons and slopes on the project are subject to erosion. Necessary procedures in accordance with Section 212 and 213 of the current Standard Specifications for Road and Bridge Construction shall be followed on construction to control the erosion and water pollution. Positive drainage facilities such as slotted drains and/or bituminous wedge curbs may be necessary to control the erosion on the soil embankments.
12. All cut intervals shall be constructed with soil cuts of 2:1 or flatter slopes with the exception of the limestone cuts between STA. 248+00 and STA. 252+00, 270+50 to 274+50 and 298+00 to 301+50, which shall have a rock cut slope of 1/2:1.
13. In areas where the existing pavement will need to be removed, it is likely that the existing subgrade will be wet and soft. Therefore, we recommend using a one (1) foot thick layer KYDOT #2, #3, or #23 sized stone in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction, and shall be classified as non-erodible. The durable limestone shall be wrapped with Type IV geotextile fabric in accordance with Section 845 of the Standard Specifications.
14. Several underground utilities were noted within the construction limits. Appropriate treatment, as outlined in the Standard Specifications, shall apply.
15. Perforated pipe for subgrade drainage shall be placed in vertical sags in accordance with RDP-005 at the following approximate locations and/or where designated by the engineer.

Station 247+00	Station 308+00
Station 269+50	Station 321+50
Station 282+00	Station 1428+00
Station 292+00	
16. Transverse benches with perforated pipe underdrains shall be placed in accordance with Standard Drawings RDP-005 and RDP-006 at the following locations and where designated by the engineer.

Station 247+50	Station 295+75
Station 253+25	Station 307+75
Station 279+75	Station 309+60
Station 283+40	Station 317+50
	Station 1427+00
17. Pavement design is based on a CBR value of 2. All fill placed within 2 feet of subgrade shall have a CBR value of at least 2.

GEOTECHNICAL NOTES

FILE NAME: G:\PWORK\PATRICK\MATHENY\DI214137\RI4900GT.LH-18-15.DGN

USER: patrick.matheny
DATE PLOTTED: November 18, 2015

E-SHEET NAME: RI4900GT

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GEOTECHNICAL NOTES

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3. The contractor shall construct foundation embankment benches and transverse benches as indicated on the plans and/or as directed by the Engineer, prior to placement of embankments in areas requiring such benches.
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5. The contractor shall conduct grading operations in such a manner that soil free of rock fragments larger than 4-inches from roadway excavation be stockpiled separately meeting the specifications in Section 208 of the current Standard Specifications for Road and Bridge Construction. No direct payment will be allowed for such necessary manipulating as stockpiling, hauling and/or handling the material.
6. Any saturated, unstable material encountered in the existing creek beds and/or drainage swales within embankment foundation limits shall be excavated and replaced with a one-foot thick layer of Rock Embankment in accordance with Sections 206 of the current Standard Specifications. KYTC No. 2, No. 3 or No. 23 sized stone wrapped with Type IV Geotextile Fabric in accordance with Sections 2014 and 843 of the current standard specifications will also be permitted. Positive drainage shall be maintained to prevent trapping water within the roadway embankment. The placement of this material is incidental to the unit bid price for roadway excavation.
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9. In accordance with Section 206 of the current Standard Specifications, the moisture content of embankment subgrade material shall not vary from the optimum moisture content as determined by AASHTO T99 by more than +2 percent or less than -2 percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment or subgrade construction. The published KTC family of curves and/or the laboratory determined moisture-density curves will be used to establish the moisture-density criteria in the field.
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13. In areas where the existing pavement will need to be removed, it is likely that the existing subgrade will be wet and soft. Therefore, we recommend using a one (1) foot thick layer KYDOT #2, #3, or #23 sized stone in accordance with the current edition of Section 805 of the Standard Specifications for Road and Bridge Construction, and shall be classified as non-erodible. The durable limestone shall be wrapped with Type IV geotextile fabric in accordance with Section 845 of the Standard Specifications.
14. Several underground utilities were noted within the construction limits. Appropriate treatment, as outlined in the Standard Specifications, shall apply.
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16. Transverse benches with perforated pipe underdrains shall be placed in accordance with Standard Drawings RDP-005 and RDP-006 at the following locations and where designated by the engineer.

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17. Pavement design is based on a CBR value of 2. All fill placed within 2 feet of subgrade shall have a CBR value of at least 2.

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