



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

February 10, 2015

CALL NO. 107
CONTRACT ID NO. 151205
ADDENDUM # 2

Subject: Warren County, STP BRZ 0303 (251)
Letting February 20, 2015

- (1) Revised - Plan Sheets - R1 & R2B
- (2) Revised - Bid Items - Pages 161-163 of 163

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 blue ink that reads "Diana Castle Radcliffe".

Diana Castle Radcliffe
Director
Division of Construction Procurement

DR:ks
Enclosures



An Equal Opportunity Employer M/F/D

PIPE DRAINAGE SUMMARY

SHEET NO.	STATION	SKEW	PH LEVEL	MAXIMUM COVER HEIGHT	15" ENTRANCE PIPE	15" STORM SEWER PIPE	24" CULVERT PIPE	SLOPED BOX OUTLET TYPE 1-15 IN	S & F BOX INLET-OUTLET-24 IN	CURB BOX INLET TYPE B	REMARKS
ITEM CODE					0440	0521	0464	1432	1451	1480	
UNIT TO BID					LINEAL FEET		EACH				
R4	97+93	4° LT.	M	16.14'			87	1	2		
R4	100+88	0° LT.	M	4.80'		49				2	
R4	101+66	19° LT.	M	8.18'	71						
R4	102+36	19° LT.	M	10.70'	101						
R4	103+43	164° RT.	M	1.53'	32						
R4	105+11	4° RT.	M	3.75'	46						
TOTAL PROJECT					250	49	87	1	2	2	

PAVING AREAS

ITEM DESCRIPTION (UNIT)	CR-1301 (WEST BOULE ROAD)	ENT. @ 101+66	ENT. @ 102+36	ENT. @ 103+43	ENT. @ 105+11	ENT. @ 105+91	TOTAL PROJECT
1 1/4" CL2 ASPHALT SURFACE 0.38D PG 64-22 (SQ YD)	2,518	498	255	138	165	43	3,617
2 3/4" CL2 ASPHALT BASE 0.75D PG 64-22 (SQ YD)	2,544						2,544
3" CL2 ASPHALT BASE 0.75D PG 64-22 (SQ YD)	2,602						2,602
2" CL2 ASPHALT BASE 0.75D PG 64-22 (SQ YD)		509	260	141	168	44	1,123
FULL DEPTH 4" CRUSHED STONE BASE (CU YD)	1,325						1,325
4" CRUSHED STONE BASE (SQ YD)		521	268	146	174	46	1,154
ASPHALT SEAL AGGREGATE (TWO APPLICATIONS) (SQ YD)	1,265						1,265
ASPHALT SEAL COAT (TWO APPLICATIONS) (SQ YD)	1,265						1,265

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	
1310	REMOVE PIPE	LF	48
1825	ISLAND CURB AND GUTTER	LF	95
1982	DELINEATOR FOR GUARDRAIL-WHITE	EACH	24
1984	DELINEATOR FOR BARRIER-WHITE	EACH	2
2014	BARRICADE-TYPE III	EACH	8
2091	REMOVE PAVEMENT	SQ YD	999
2223	GRANULAR EMBANKMENT ⑤	CU YD	100
2230	EMBANKMENT IN PLACE ⑨	CU YD	21,872
2242	WATER ⑩	MGAL	100
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF	1,210
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	6
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH	4
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	4
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	12
2432	WITNESS POST	EACH	3
2469	CLEAN SINKHOLE ⑤	EACH	1
2483	CHANNEL LINING CLASS II	TON	20
2545	CLEARING & GRUBBING ②	LP SUM	1
2562	SIGNS (FOR CONSTRUCTION) ⑫	SQ FT	285
2569	DEMOBILIZATION	LP SUM	1
2585	EDGE KEY	LF	30
2599	FABRIC-GEOTEXTILE TYPE IV ⑧	SQ YD	5,652
2600	FABRIC GEOTEXTILE TY IV FOR PIPE	SQ YD	200
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	1
2726	STAKING	LP SUM	1
2731	REMOVE STRUCTURE	LP SUM	1
5950	EROSION CONTROL BLANKET ⑥	SQ YD	10,787
5966	TOPDRESSING FERTILIZER	TON	1
5985	SEEDING & PROTECTION ⑥	SQ YD	10,787
6514	PAVE STRIPING-PERM PAINT-4 IN ⑬	LF	5,002
20315ED	CLAY SOIL CAP ⑤	CU YD	15
23143ED	KPDES PERMIT AND TEMP EROSION CONTROL	LP SUM	1
20210EN	COHESIVE PILE CORE ⑮	CU YD	320

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	TOTAL PROJECT
0080	CRUSHED AGGREGATE SIZE NO. 23 ~ FOR SUBGRADE STABILIZATION ⑦	TON	2,444
0003	CRUSHED STONE BASE ① ⑪	TON	2,091
0078	CRUSHED AGGREGATE SIZE NO 2 ⑭	TON	100
0100	ASPHALT SEAL AGGREGATE ③	TON	25
0103	ASPHALT SEAL COAT ④	TON	3
0221	CL2 ASPHALT BASE 0.75D PG 64-22	TON	938
0301	CL2 ASPHALT SURFACE 0.38D PG 64-22	TON	249

ESTIMATE FOR EARTHWORK
CALCULATIONS IS FOR DESIGN ONLY

Earthwork (CU YD)

Embankment (Sheet X12)	= 18,428
Embankment (Entrances from Sheet R4)	= 3,444
EMBANKMENT	= 21,872

Additional Quantities (CU YD)

Common Excavation (Sheet X12)	= 5,773
Foundation Emb. Benching	= 336
Crushed Aggregate Embankment	= 129

VOLUMES SHOWN FOR INFORMATION ONLY

- NOTES:**
- ① ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ YD PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
 - ② ESTIMATED AT 115 LBS. PER SQ YD PER INCH OF DEPTH.
 - ③ CLEARING AND GRUBBING ~ 2.74 AC
 - ④ ESTIMATED AT 20 LBS. PER SQ YD (SIZE NO. 8 OR 9M) TWO APPLICATIONS
 - ⑤ ESTIMATED AT 2.4 LBS. PER SQ YD (TWO APPLICATIONS)
 - ⑥ AS NEEDED FOR TREATMENT OF OPEN SINKHOLES (AT DIRECTION OF ENGINEER)
 - ⑦ ALL NON-PAVED AREAS INSIDE THE DISTURB LIMITS TO BE TREATED WITH SEEDING/EROSION CONTROL BLANKET WHEN FINISH GRADE HAS BEEN ACHIEVED. 9,788 SQ YD FOR DITCHES AND SLOPES OF MAINLINE AND APPROACHES AND 999 SQ YD FOR AREAS WHERE PAVEMENT HAS BEEN REMOVED AND TOPSOIL PLACED
 - ⑧ TO BE USED IN AREAS WHERE SUBGRADE MOISTURE PROBLEMS ARE ENCOUNTERED OR WHERE FUTURE EMBANKMENT SATURATION MAY OCCUR ~ NO. 23 USED FOR ESTIMATION PURPOSES (SEE GEOTECHNICAL NOTES FOR MORE DETAIL) ~ ESTIMATED 1,428 TONS FOR WET SUBGRADE UNDER SHALLOW FILL OR CUT OR UNDER WET PAVEMENT, 766 TONS FOR WET SUBGRADE UNDER EMBANKMENT CONSTRUCTION, AND 250 TONS FOR CONSTRUCTING THE BASE OF FILL NEAR STATION 98+00 UP TO ELEVATION 599.
 - ⑨ TO BE USED IN AREAS WHERE SUBGRADE MOISTURE PROBLEMS ARE ENCOUNTERED, WHERE FUTURE EMBANKMENT SATURATION MAY OCCUR, AND IN SINKHOLE CAPPING (SEE GEOTECHNICAL NOTES FOR MORE DETAIL) ~ ESTIMATED 4,178 SQ YDS FOR WET SUBGRADE UNDER SHALLOW FILL OR CUT OR UNDER WET PAVEMENT, 1,156 SQ YDS FOR WET SUBGRADE UNDER EMBANKMENT CONSTRUCTION, 200 SQ YDS FOR CONSTRUCTING THE BASE OF FILL NEAR STATION 98+00 UP TO ELEVATION 599, AND 118 SQ YDS FOR SINKHOLE CAPPING.
 - ⑩ INCLUDES 336 CU YD FOR EMBANKMENT BENCHES
 - ⑪ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC
 - ⑫ INCLUDES 500 TONS FOR MAINTAINING TRAFFIC
 - ⑬ INCLUDES 69 SQ FT FOR TWO STANDARD DRAWING NO. TTC-110 CONFIGURATIONS AND 216 SQ FT FOR DETOUR SIGNS
 - ⑭ INCLUDES 2,502 LF OF SOLID YELLOW AND 2,500 LF OF SOLID WHITE (ASSUMED NO TEMPORARY STRIPING)
 - ⑮ INCLUDES 100 TONS OF #2 STONE FOR POSSIBLE ROADWAY FAILURES OR OTHER MISCELLANEOUS USES.
 - ⑯ AS PER GEOTECHNICAL NOTE #12

GENERAL SUMMARY

FILE NAME: G:\PWORK\STEWART.LICH\DD27464\ROD208SUJ.DGN
 USER: stewart.lich
 DATE PLOTTED: February 10, 2015
 E-SHEET NAME:
 MicroStation v8.11.7.443

PIPE DRAINAGE SUMMARY

SHEET NO.	STATION	SKEW	PH LEVEL	MAXIMUM COVER HEIGHT	15" ENTRANCE PIPE	15" STORM SEWER PIPE	24" CULVERT PIPE	SLOPED BOX OUTLET TYPE 1-15 IN	S & F BOX INLET-OUTLET-24 IN	CURB BOX INLET TYPE B	REMARKS
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PAVING AREAS

REVISED PLAN DATE: 02/10/15

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- ⑫ AS PER GEOTECHNICAL NOTE #12

GENERAL SUMMARY

FILE NAME: G:\PWORK\STEWART.LICH\DD027464\RO0208SUJ.DGN

USER: stewart.lich
DATE PLOTTED: February 10, 2015

E-SHEET NAME:

MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	03-1070.00	RI



Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

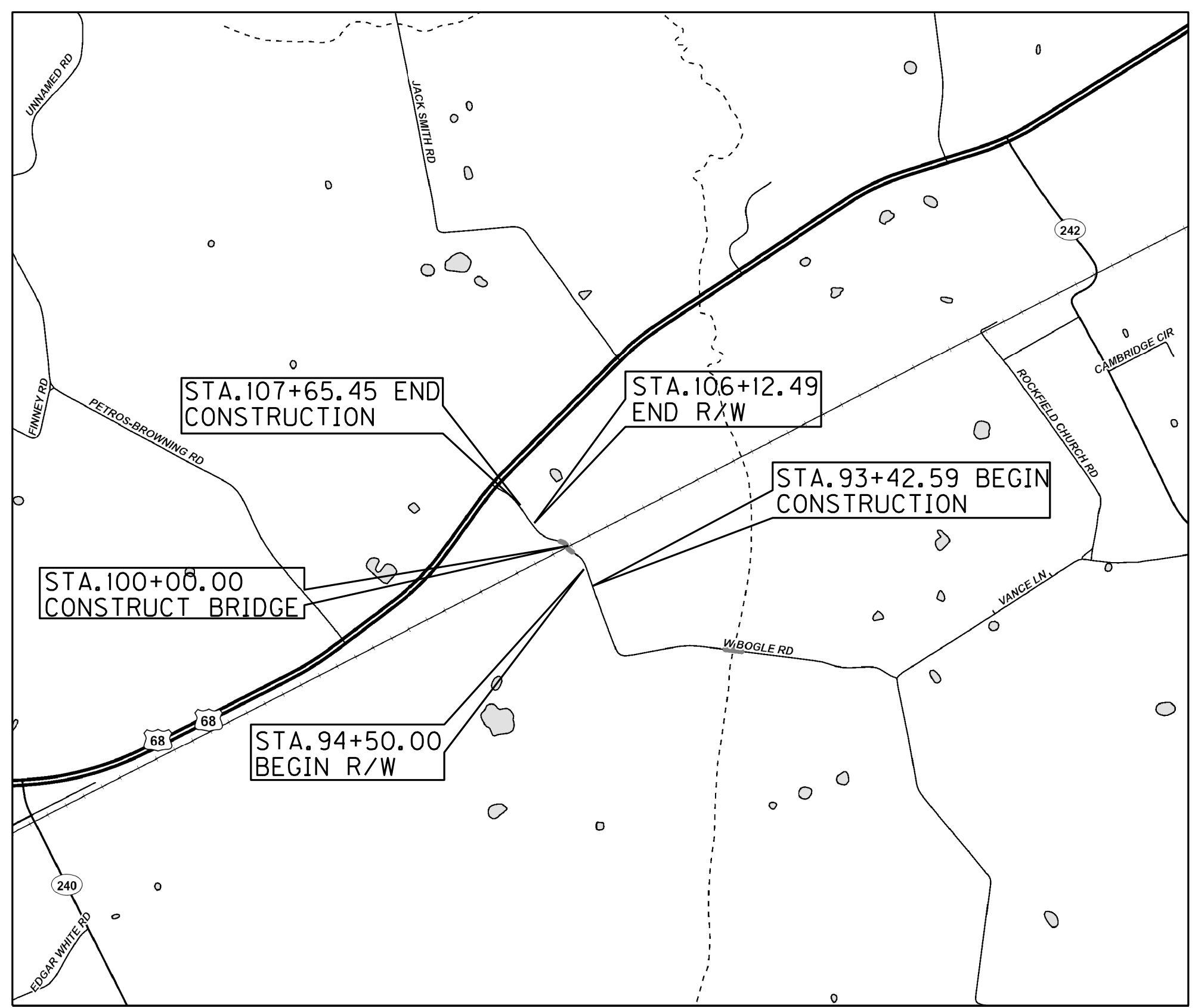
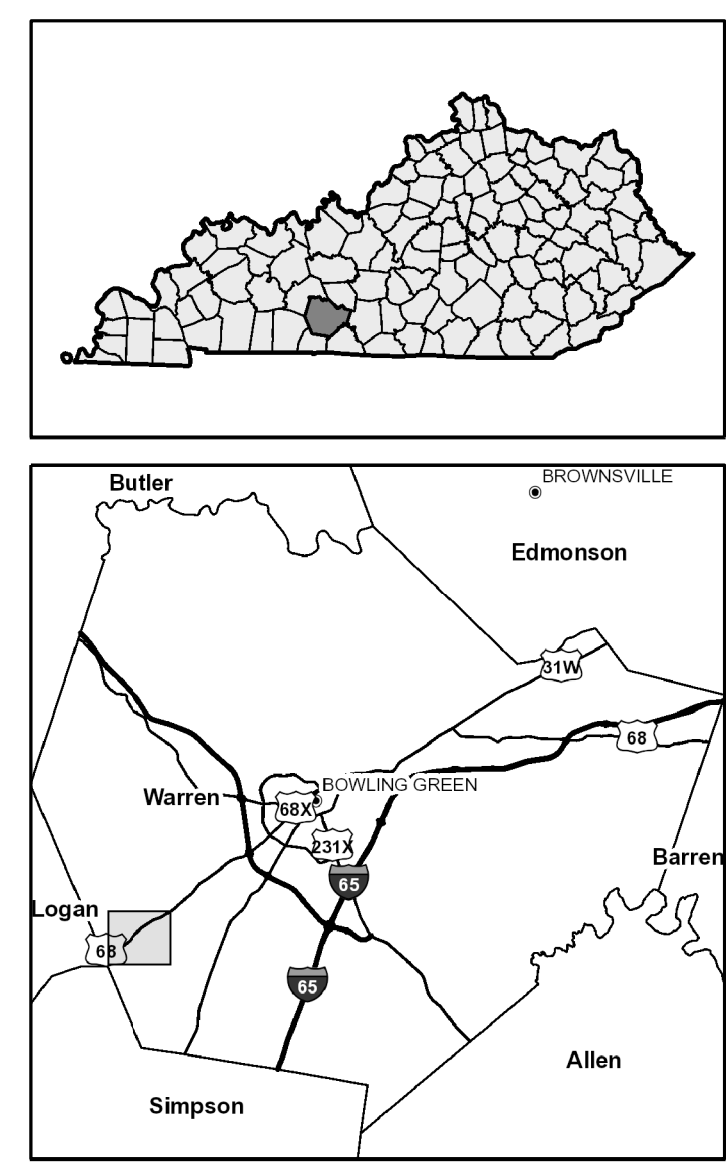
GRADE, DRAIN, AND SURFACE PLANS FOR A WARREN COUNTY BRIDGE REPLACEMENT ON CR-1301 (WEST BOGLE ROAD) STP BRZ 0303 (251)

INDEX OF SHEETS

R1	LAYOUT SHEET
R2A	TYPICAL SECTIONS
R2B	SUMMARY
R2C	NOTES SHEET
R3	LEGEND AND UTILITY OWNERS
R4	PLAN SHEET
R5	PROFILE SHEET
R6	RIGHT-OF-WAY SUMMARY
R7	RIGHT-OF-WAY STRIP MAP
R8	COORDINATE CONTROL SHEET
R9	BASIN GRADING DETAIL
R10	STRIPING PLAN
R11-R17B	SEPIA SHEETS
R18-R22	MAINTENANCE OF TRAFFIC SHEETS
R23-R24	EROSION CONTROL SHEETS
R25-R30	GEOTECHNICAL SHEETS
R31	PIPE SECTIONS
X1-X12	CROSS SECTIONS

STANDARD DRAWINGS

RBC-001-10	RGX-010-03
RBC-002-02	RGX-100-05
RBI-001-10	RGX-105-07
RBR-010-05	RPM-100-09
RBR-016-04	RPM-110-06
RBR-035-10	TTC-135-01
RBR-100-06	
RDB-280-05	
RDD-040-04	
RDH-020	
RGS-002-05	



THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

DESIGN CRITERIA

CLASS OF HIGHWAY	RURAL LOCAL
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	25
REQUIRED NPSD	
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT (2010)	120
ADT FUTURE (2031)	200
DHV (2010)=16, (2031)=30	
D % (2010)=13.3%, (2031)=16.4%	
T % (2010)=20%, (2031)=25%	

GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 54 MINUTES 2 SECONDS NORTH
 LONGITUDE -86 DEGREES 35 MINUTES 15 SECONDS WEST

DESIGNED

% RESTRICTED SD _____
 LEVEL OF SERVICE _____
 MAX. DISTANCE W/O PASSING _____

LENGTH <u>1.423</u> LIN. FT. <u>0.269</u> MILES	LENGTH _____ LIN. FT. _____ MILES	LENGTH _____ LIN. FT. _____ MILES	LENGTH _____ LIN. FT. _____ MILES
ADDED _____ FOR EQUALITIES _____ LIN. FT.	ADDED _____ FOR EQUALITIES _____ LIN. FT.	ADDED _____ FOR EQUALITIES _____ LIN. FT.	ADDED _____ FOR EQUALITIES _____ LIN. FT.
DEDUCTED _____ NOT INCLUDED	DEDUCTED _____ NOT INCLUDED	DEDUCTED _____ NOT INCLUDED	DEDUCTED _____ NOT INCLUDED
RAILROAD CROSSINGS NO. <u>20</u> LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT.
BRIDGES <u>124</u> LIN. FT.	BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.

SCALE: 1"=3,000'
LAYOUT MAP

**Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
WARREN**

ITEM NO. 03-1070.00
 PROJECT NUMBER: FD52 114 1301 000-001
STP BRZ 0303 (251)
 LETTING DATE: FEBRUARY 20, 2015

RECOMMENDED BY: ANDREW STEWART DATE: 1/12/2015
 PROJECT MANAGER
 PLAN APPROVED BY: [Signature] DATE: 1-30-14
 STATE HIGHWAY ENGINEER

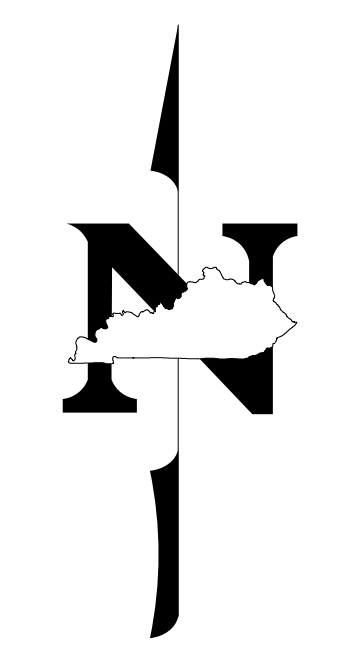
NO. SETS	DATE
RECORD PLANS	
CONSTRUCTION PLANS	

REVIEWED BY	DIVISION OF CONSTRUCTION

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$designsfiles\$specifications\$\$\$
 E-SHEET NAME:

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	03-1070.00	RI

REVISED PLAN DATE: 02/10/15



Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

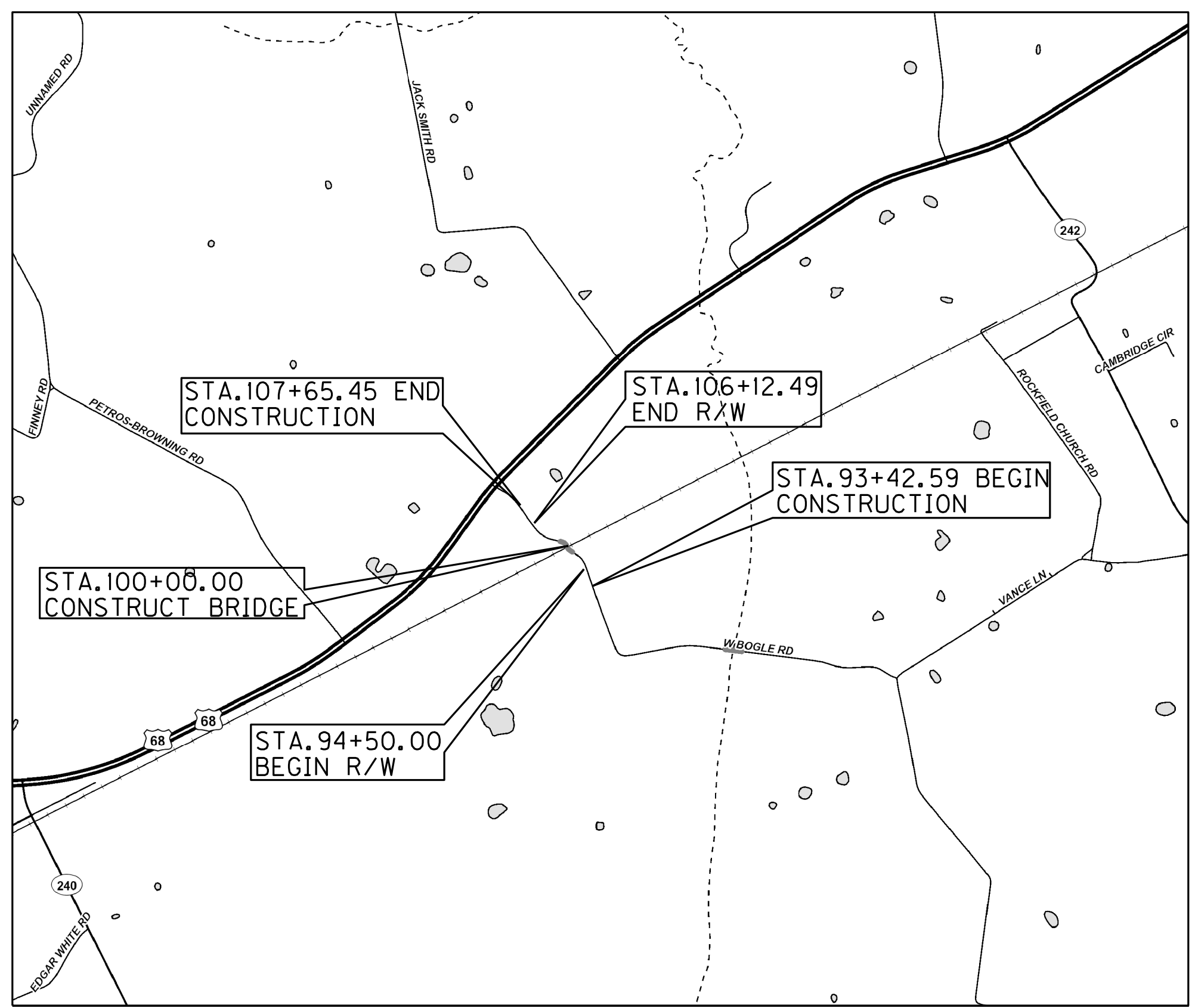
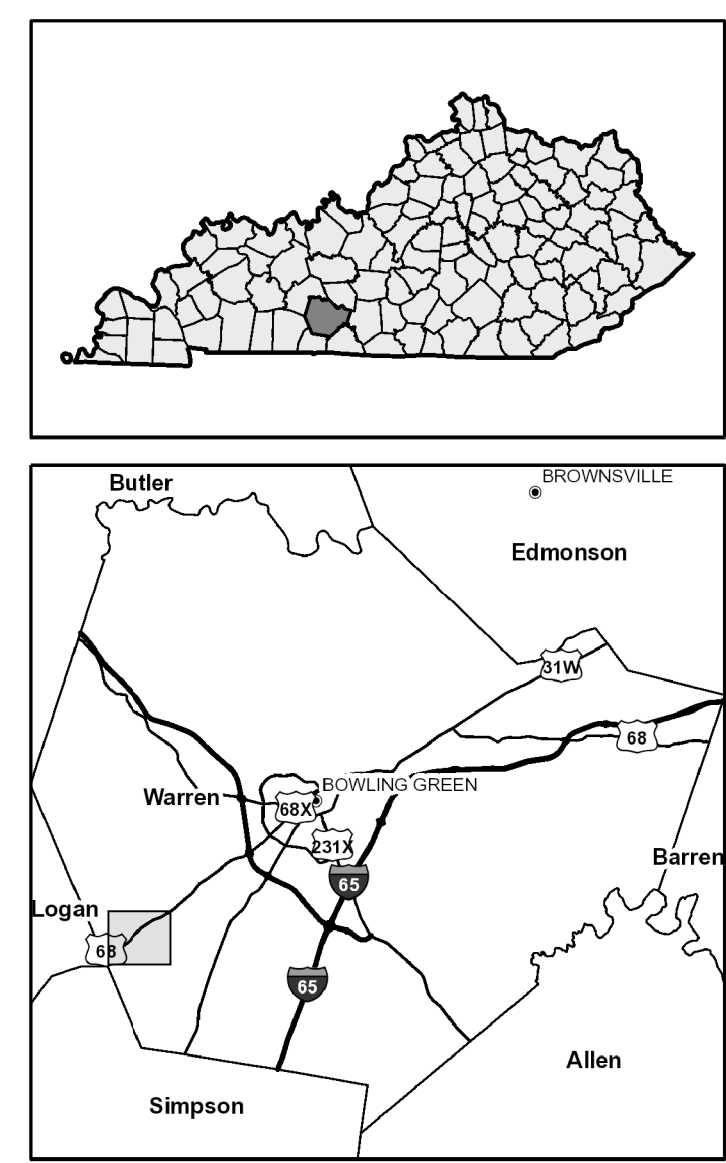
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LETTING DATE: FEBRUARY 20, 2015

RECOMMENDED BY: ANDREW STEWART DATE: 1/12/2015
PROJECT MANAGER
PLAN APPROVED BY: [Signature] DATE: 1-30-14
STATE HIGHWAY ENGINEER

NO. SETS	DATE
RECORD PLANS	
CONSTRUCTION PLANS	

REVIEWED BY	DIVISION OF CONSTRUCTION

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designsfiles\$specifications\$\$\$
E-SHEET NAME:

PROPOSAL BID ITEMS

151205

Report Date 2/10/15

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	2,091.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	100.00	TON		\$	
0030	00080		CRUSHED AGGREGATE SIZE NO 23	2,444.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	25.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	3.00	TON		\$	
0060	00221		CL2 ASPH BASE 0.75D PG64-22	938.00	TON		\$	
0070	00301		CL2 ASPH SURF 0.38D PG64-22	249.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	01310		REMOVE PIPE	48.00	LF		\$	
0090	01825		ISLAND CURB AND GUTTER	95.00	LF		\$	
0100	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	24.00	EACH		\$	
0110	01984		DELINEATOR FOR BARRIER - WHITE	2.00	EACH		\$	
0120	02014		BARRICADE-TYPE III	8.00	EACH		\$	
0130	02091		REMOVE PAVEMENT	999.00	SQYD		\$	
0140	02223		GRANULAR EMBANKMENT	100.00	CUYD		\$	
0150	02230		EMBANKMENT IN PLACE	21,872.00	CUYD		\$	
0160	02242		WATER (FOR DUST CONTROL)	100.00	MGAL		\$	
0170	02351		GUARDRAIL-STEEL W BEAM-S FACE	1,210.00	LF		\$	
0180	02360		GUARDRAIL TERMINAL SECTION NO 1	6.00	EACH		\$	
0190	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0200	02391		GUARDRAIL END TREATMENT TYPE 4A	4.00	EACH		\$	
0210	02429		RIGHT-OF-WAY MONUMENT TYPE 1	12.00	EACH		\$	
0220	02432		WITNESS POST	3.00	EACH		\$	
0230	02469		CLEAN SINKHOLE	1.00	EACH		\$	
0240	02483		CHANNEL LINING CLASS II	20.00	TON		\$	
0250	02545		CLEARING AND GRUBBING (APPROXIMATELY 2.74 ACRES)	1.00	LS		\$	
0260	02562		TEMPORARY SIGNS	280.00	SQFT		\$	
0270	02585		EDGE KEY	30.00	LF		\$	
0280	02599		FABRIC-GEOTEXTILE TYPE IV	5,652.00	SQYD		\$	
0290	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	200.00	SQYD	\$2.00	\$	\$400.00
0300	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0310	02726		STAKING	1.00	LS		\$	
0320	02731		REMOVE STRUCTURE	1.00	LS		\$	
0330	05950		EROSION CONTROL BLANKET	10,787.00	SQYD		\$	
0340	05963		INITIAL FERTILIZER	1.00	TON		\$	
0350	05964		20-10-10 FERTILIZER	1.00	TON		\$	
0360	05985		SEEDING AND PROTECTION	10,787.00	SQYD		\$	
0370	05992		AGRICULTURAL LIMESTONE	9.00	TON		\$	
0380	06514		PAVE STRIPING-PERM PAINT-4 IN	5,002.00	LF		\$	
0381	20210EN		COHESIVE PILE CORE (ADDED: 2-10-15)	320.00	CUYD		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	20315ED		CLAY SOIL CAP	15.00	CUYD		\$	
0400	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	00440		ENTRANCE PIPE-15 IN	250.00	LF		\$	
0420	00464		CULVERT PIPE-24 IN	87.00	LF		\$	
0430	00521		STORM SEWER PIPE-15 IN	49.00	LF		\$	
0440	01432		SLOPED BOX OUTLET TYPE 1-15 IN	1.00	EACH		\$	
0450	01451		S & F BOX INLET-OUTLET-24 IN	2.00	EACH		\$	
0460	01480		CURB BOX INLET TYPE B	2.00	EACH		\$	

Section: 0004 - BRIDGE - OVER RJ CORMAN RR - DWG. 26933

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0470	02223		GRANULAR EMBANKMENT	346.10	CUYD		\$	
0480	02231		STRUCTURE GRANULAR BACKFILL	97.80	CUYD		\$	
0490	02555		CONCRETE-CLASS B	138.70	CUYD		\$	
0500	02998		MASONRY COATING	253.00	SQYD		\$	
0510	03299		ARMORED EDGE FOR CONCRETE	44.00	LF		\$	
0520	08001		STRUCTURE EXCAVATION-COMMON	767.50	CUYD		\$	
0530	08020		CRUSHED AGGREGATE SLOPE PROT	225.00	TON		\$	
0540	08033		TEST PILES	78.00	LF		\$	
0550	08051		PILES-STEEL HP14X89	214.00	LF		\$	
0560	08095		PILE POINTS-14 IN	8.00	EACH		\$	
0570	08100		CONCRETE-CLASS A	76.90	CUYD		\$	
0580	08104		CONCRETE-CLASS AA	106.50	CUYD		\$	
0590	08150		STEEL REINFORCEMENT	8,716.00	LB		\$	
0600	08151		STEEL REINFORCEMENT-EPOXY COATED	27,172.00	LB		\$	
0610	08669		PRECAST PC BOX BEAM SB21	362.50	LF		\$	
0620	20637ED		DRILLED SHAFT-ROCK 48 IN	32.00	LF		\$	
0630	20743ED		DRILLED SHAFT 54 IN-SOLID ROCK	16.00	LF		\$	
0640	20745ED		ROCK SOUNDINGS	74.00	LF		\$	
0650	20746ED		ROCK CORINGS	96.00	LF		\$	
0660	21532ED		RAIL SYSTEM TYPE III	248.00	LF		\$	
0670	22417EN		DRILLED SHAFT-54 IN-COMMON	74.00	LF		\$	

Section: 0005 - WATERLINE - RELOCATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0680	01059		STEEL ENCASEMENT PIPE-2 IN (OPEN CUT W/ 1" PE CARRIER)	125.00	LF		\$	
0690	03431		RELOCATE WATER METER (5/8 INCH)	2.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0700	20311EC		SERVICE LINE-3/4 IN (PE)	5.00	LF		\$	
0710	20333EN		SERVICE LINE (CUSTOMER)	170.00	LF		\$	
0720	21558EC		SERVICE LINE - 1 IN (PE)	112.00	LF		\$	
0730	23300ED		CRUSHED STONE	200.00	TON		\$	

Section: 0006 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0740	02569		DEMOBILIZATION	1.00	LS		\$	