



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

August 16, 2011

CALL NO. 301
CONTRACT ID NO. 111036
ADDENDUM # 1

Subject: Hardin County, JP02 047 8547
Letting August 19, 2011

- (1) Revised - Plan Sheets - R2CC, R2BB, R2DD, R2EE, R2FF, R2GG, R92, R92A, R93, R96, R99, R188A
- (2) Revised - Bid Items - Pages 131-147 of 147

Proposal revisions are available at <http://transportation.ky.gov/contract/>.
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 "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

GENERAL SUMMARY

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	E2RC MAINLINE	RAMPS	US 31W BYPASS	APPR. 432+15.27 MALL STREET	APPR. 436+57.15 OAK STREET	APPR. 440+18.67 WESTPORT ROAD	APPR. JOHNSTOWN ROAD	FRONTAGE ROAD CONNECTOR 1	FRONTAGE ROAD 1	RINEYVILLE RD.	TIMBER LANE	FRONTAGE RD. 2	FRONTAGE RD. 3	RING ROAD & RALPH FRANKLIN ROAD CONNECTOR	FONTAINE-SANTANA & SV CONNECTOR	FRONTAGE RD. 4 & ROBBIN-BROOKE	HUTCHERSON LANE	FRONTAGE ROAD 5	KY 1600 & RD D & E	ENTRANCES	PROJECT TOTALS		
2599	FABRIC-GEOTEXTILE TYPE IV	SQ YD	1,110		920							42					62		25	17			2,176		
2610	RETAINING WALL-GABION	CU YD	84																					84	
2650	MAINTAIN & CONTROL TRAFFIC	LS	1																					1	
2651	DIVERSIONS (BY-PASS DETOURS) ②	LS	1																					1	
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2		3											2								7	
2690	SAFEOLOADING	CU YD	22		131																			153	
2696	SHOULDER RUMBLE STRIPS - SAWED	LIN FT			13,252																			13,252	
2701	TEMPORARY SILT FENCE ②	LIN FT	12,883	5,592	6,626	76	100	100	900	160	888	2,759	813	616	339	1,397	1,266	2,006	1,383	1,238	871		40,013		
2703	SILT TRAP TYPE A ②	EACH	70	28	40				5		2	7	2	1	1	4	2	3	3	2	2		172		
2704	SILT TRAP TYPE B ②	EACH	70	28	40				5		2	7	2	1	1	4	2	3	3	2	2		172		
2705	SILT TRAP TYPE C ②	EACH	76	43	60				7		3	7	2	1	1	9	2	3	3	2	2		221		
2706	CLEAN SILT TRAP TYPE A ②	EACH	210	84	120				15		6	21	6	3	3	12	6	9	9	6	6		516		
2707	CLEAN SILT TRAP TYPE B ②	EACH	210	84	120				15		6	21	6	3	3	12	6	9	9	6	6		516		
2708	CLEAN SILT TRAP TYPE C ②	EACH	228	129	180				21		9	21	6	3	3	27	6	9	9	6	6		663		
2709	CLEAN TEMPORARY SILT FENCE ②	LIN FT	12,883	5,592	6,626	76	100	100	900	160	888	2,759	813	616	339	1,397	1,266	2,006	1,383	1,238	871		40,013		
2714	SHOULDERING	LIN FT			13,252																			13,252	
2720	SIDEWALK - 4 IN CONCRETE	SQ YD	1,161									95				161		258						1,675	
2723	SIDEWALK - 6 IN CONCRETE ⑩	SQ YD			1,386																			1,386	
2726	STAKING	LP SUM	1																					1	
2731	REMOVE STRUCTURE ⑫	LP SUM	1																					1	
2731	REMOVE STRUCTURE ⑬	LP SUM	1																					1	
2775	ARROW PANEL ⑮	EACH			2																			2	
2898	RELOCATE CRASH CUSHION ⑮	EACH			10																			10	
2900	INSTALL TEMP CRASH CUSHION ⑮	EACH			7																			7	
2998	MASONRY COATING	SQ YD			3,549																			3,549	
3171	CONCRETE BARRIER WALL TYPE 9T ⑮	LIN FT	1,750		1600																			3,350	
3225	TUBULAR MARKERS ⑰	EACH			312																			312	
3287	SIDEWALK RAMP TYPE 1	EACH	9													1								10	
4953	TEMP RELOCATION OF SIGNAL HEAD ⑮	EACH	1		4																			5	
5950	EROSION CONTROL BLANKET ⑯	SQ YD	10,374	7,954	10,228				1,465		532	755	330	405		57	320	186						32,606	
5952	TEMPORARY MULCH ⑲	SQ YD	292,499	68,728	96,800				11,132		4,356	32,099	7,139	4,227	3,317	19,344	10,991	15,160	14,196	10,987	8,827			599,802	
5953	TEMPORARY SEEDING AND PROTECTION ⑲	SQ YD	18,144	2,847	2,132				801		244	2,234	492	305	187	908	659	1,019	914	836	549			32,271	
5966	TOP DRESSING FERTILIZER	TON	9.57	1.50	1.10				0.40		0.10	1.16	0.25	0.16	0.10	0.57	0.34	0.53	0.47	0.43	0.28			16.96	
5985	SEEDING AND PROTECTION ⑲	SQ YD	181,443	28,467	21,321				8,013		2,437	22,341	4,918	3,052	1,868	9,082	6,591	10,189	9,143	8,355	5,493			322,713	
5989	SPECIAL SEEDING CROWN VETCH	SQ YD	30,732	9,979	1,434				1,682			3,193	2,134	668		669	231	1,205	848	973	1,548			55,296	
5990	SODDING	SQ YD	8,445																						8,445
6510	PAVE STRIPING - TEMP PAINT - 4 IN ⑲	LIN FT	36,092	23,590	66,540	152	252	224	3,860	76														130,786	
6513	PAVE STRIPING - TEMP PAINT - 12 IN	LIN FT		4,442	3,242																				7,684
6514	PAVEMENT STRIPING - PERM PAINT - 4 IN	LIN FT	77,058	11,795		76	126	112	1,930	38		11,759	1,587		1,510	8,090	1,111	632	4,515		2,805			123,144	
6542	PAVEMENT STRIPING - THERMO - 6 INCH W	LIN FT			19,617																				19,617
6543	PAVEMENT STRIPING - THERMO - 6 INCH Y	LIN FT			13,653																				13,653
6546	PAVEMENT STRIPING - THERMO- 12 INCH W	LIN FT		2,221	1,621																				3,842
6567	PAVEMENT MARKING - THERMO STOP BAR - 12 IN ⑳	LIN FT				21	30	22	42	28		58	72		72	75	153	76	66		46			761	
6568	PAVEMENT MARKING - THERMO STOP BAR - 24 IN ⑳	LIN FT	170	109	25											120									424
6574	PAVEMENT MARKING - PREF THERMO CURVE ARROW ⑳	EACH	70	2	1				1				2		2	25	3	2	3		7			118	
6575	PAVEMENT MARKING - PREF THERMO COMBO ARROW ⑳	EACH			1				1				2			3	1	3						11	
6585	PAVEMENT MARKER IVA-MW TEMP ㉑	EACH			95																				95
6588	PAVEMENT MARKER IVA-BY TEMP ㉑	EACH			663																				663
6589	PAVEMENT MARKER TYPE V - MW	EACH			166											56									222
6591	PAVEMENT MARKER TYPE V - BY	EACH														42									42
6592	PAVEMENT MARKER TYPE V - B W/R	EACH		73	50																				123
6593	PAVEMENT MARKER TYPE V - B Y/R	EACH		103																					103
6600	REMOVE PAVEMENT MARKERS TYPE V	EACH			84																				84
8100	CONCRETE-CLASS A ㉒	CU YD			8.1																				8.1

NOTES:

- ③ ESTIMATED AT 2.125 M. GALLONS PER MILE (FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY)
- ④ ESTIMATED AT 25% OF R/W MONUMENTS
- ⑤ FOR MAINTENANCE OF TRAFFIC
- ⑥ INCLUDES 1,200.6 S.Y. FROM EROSION CONTROL PLANS
- ⑦ ESTIMATED AT 10% OF TOTAL SEEDING & PROTECTION
- ⑧ FOR 2 CONCRETE MEDIAN BARRIER ENDS CONDITION NO. 2
- ⑩ 50% OF TOTAL LIN. FEET OF ALL INSTALLED PIPES, REGARDLESS OF MATERIAL TYPE (SEE SUPPLEMENTAL SPECIFICATIONS)
- ⑪ SALVAGE EXISTING MATERIAL AS PER SECTION 719.03.07, EXCEPT THAT THE CONTRACTOR SHALL DELIVER EXISTING SALVAGED GUARDRAIL SYSTEM MATERIALS TO THE CENTRAL SIGN SHOP AND RECYCLE CENTER AT 1224 WILKINSON BLVD IN FRANKFORT, KY. CONTACT SECTION SUPERVISOR AT (502) 564-8187 TO SCHEDULE THE DELIVERY OF MATERIAL.
- ⑫ STA. 448+82.87 TO STA. 450+45.80 (EXISTING BRIDGE OVER BYPASS)
- ⑬ STA. 455+61.96 (EXISTING CULVERT AT SHAW CREEK)
- ⑭ INCLUDES ALL 8" PERF. PIPE AS SHOWN ON PLANS
- ⑮ STANDARD HEADER CURB TO BE USED WITH ASPHALT ALTERNATE. FOR CONCRETE ALTERNATE USED STANDARD HEADER CURB MODIFIED (BID ITEM 1876).
- ⑯ ISLAND HEADER CURB TYPE 1 TO BE USED WITH ASPHALT ALTERNATE. FOR CONCRETE ALTERNATE USED ISLAND HEADER CURB TYPE 1 MODIFIED (BID ITEM 1890).
- ⑰ BID ITEM APPLICATION IS FOR CONCRETE MEDIAN & ISLANDS (6" DEPTH)
- ⑱ FOR MAINTENANCE OF TRAFFIC. WILL BE PLACED TO SEPARATE TRAFFIC IN ACCORDANCE WITH MUTCD GUIDELINES (SPACING 1 X SPEED LIMIT IN CROSSOVER AREAS (45 FEET) AND SPACING 2 X SPEED LIMIT IN CONSTRUCTION AREAS (90 FEET).

FOR PAVING QUANTITIES - SEE PAVING SUMMARY SHEET

FOR DRAINAGE QUANTITIES - SEE DRAINAGE SUMMARY SHEETS

USER: PEC stephen
 DATE: 8/12/2011
 FILE NAME: GEN-SUM-combined.dgn
 E-SHEET NAME: GEN-SUM-combined.dgn
 8/12/2011

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	04-8103.10	R2BB

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	E2RC MAINLINE	RAMPS	US 31W BYPASS	APPR. 432+15.27 HILL STREET	APPR. 436+57.15 OAK STREET	APPR. 440+18.67 WESTPORT ROAD	APPR. JOHNSTOWN ROAD	FRONTAGE ROAD CONNECTOR 1	FRONTAGE ROAD 1	RINEYVILLE RD.	TIMBER LANE	FRONTAGE RD. 2	FRONTAGE RD. 3	RING ROAD & RALPH FRANKLIN ROAD CONNECTOR	FONTAINE-SANTANA & SV CONNECTOR	FRONTAGE RD. 4 & ROBBIN-BROOKE	HUTCHERSON LANE	FRONTAGE ROAD 5	KY 1600 & RD D & E	ENTRANCES	PROJECT TOTALS
78	CRUSHED AGGREGATE SIZE NO. 2	TON	54		64							2	2				2	1	1	1			128
1000	PERFORATED PIPE - 4 INCH	LIN FT	24,232		12,980							48	91		36		85	167	82	9			37,730
1010	NON-PERFORATED PIPE - 4 INCH	LIN FT	1,583		1,560							16	16		8		16	24	8	8			3,239
1015	INSPECT & CERTIFY EDGE DRAIN SYSTEM (14)	LS			1																		1
1020	PERFORATED PIPE HEADWALL TYPE 1 - 4 INCH	EACH	5																				5
1024	PERFORATED PIPE HEADWALL TYPE 2 - 4 INCH	EACH	2																		1		3
1028	PERFORATED PIPE HEADWALL TYPE 3 - 4 INCH	EACH	26		46							2	1		1		2		1				79
1032	PERFORATED PIPE HEADWALL TYPE 4 - 4 INCH	EACH	21		18								1						1				41
1073	STEEL ENCASMENT PIPE - 16 IN	LIN FT	170																				170
1740	CORED HOLE DRAINAGE BOX CON-4 IN	EACH	13																				13
1786	FILL AND CAP MANHOLE	EACH	1						3														4
1791	ADJUST MANHOLE TO GRADE	EACH	4						2														6
1810	STANDARD CURB AND GUTTER	LIN FT	3,322													1,934	1,710						6,966
1875	STANDARD HEADER CURB (15)	LIN FT			585																		585
1890	ISLAND HEADER CURB TYPE 1 (16)	LIN FT			667																		667
1982	DELINEATOR FOR GUARDRAIL - WHITE	EACH	20		3				8	1											6		64
1983	DELINEATOR FOR GUARDRAIL - YELLOW	EACH			36																		36
1985	DELINEATOR FOR BARRIER - YELLOW	EACH			66																		66
2001	CURB TO BARRIER WALL TRANSITION (MODIFIED)	EACH			1																		1
2003	RELOCATE TEMPORARY CONC BARRIER WALL (5)	LIN FT			2800																		2800
2009	REMOVE ASPHALT MEDIAN	SQ YD			486																		486
2014	BARRICADE - TYPE III (5)	EACH			3																		3
2058	REMOVE PCC PAVEMENT	SQ YD			4,895																		4,895
2091	REMOVE PAVEMENT	SQ YD							427			4,777				45							5,249
2159	TEMPORARY DITCH (2)	LIN FT	12,817	5,292	6,626	76	100	100	900	160	888	2,759	813	616	339	1,525	1,266	2,006	1,383	1,238	871		39,775
2160	CLEAN TEMPORARY DITCHES (2)	LIN FT	12,817	5,292	6,626	76	100	100	900	160	888	2,759	813	616	339	1,525	1,266	2,006	1,383	1,238	871		39,775
2200	ROADWAY EXCAVATION	CU YD	450,144																				450,144
2203	STRUCTURE EXCAVATION - UNCLASSIFIED	CU YD														55							55
2237	DITCHING	LIN FT			13,252																		13,252
2242	WATER (3)	MGAL	5.1	2.3	2.7				0.4	0.1	0.4	1.1	0.3	0.2	0.4	0.6	0.5	0.7	0.6	0.4	0.3		16.1
2262	R/W FENCE-WOVEN WIRE TYPE 1	LIN FT	13,023		2,977				210												572		16,782
2351	GUARDRAIL - STEEL *W* BEAM - S FACE	LIN FT	1,702	4,050	213				694	31		25				13					309		7,037
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	2						2		2					2					1		9
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH			4																		4
2367	GUARDRAIL END TREATMENT TYPE 1	EACH			1	1															1		3
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH			4																		4
2371	GUARDRAIL END TREATMENT TYPE 7	EACH								1													1
2371	GUARDRAIL END TREATMENT TYPE 7 (5)	EACH	2																				2
2381	REMOVE GUARDRAIL (11)	LIN FT	2,076		9,737																		11,813
2383	REMOVE & RESET GUARDRAIL (5)	LIN FT	800																				800
2387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	EACH			2																		2
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	2						1														3
2397	TEMPORARY GUARDRAIL (5)	LIN FT	800																				800
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	52						10		16	3	3	2	6	6	5	12	9	5			129
2432	WITNESS POST (4)	EACH	13						2		4	1	1		2	2	1	3	2	1			32
2471	FILL AND CAP SINKHOLE	EACH	6																				6
2483	CHANNEL LINING CLASS II	TON	614	72	180				236		26						39				10		1,177
2484	CHANNEL LINING CLASS III	TON	907	481	52				53											25			1,518
2545	CLEARING & GRUBBING (1)	LS	1																				1
2555	CONCRETE-CLASS B	CU YD														26.7							26.7
2562	SIGNS (5)	SQ FT	118		429	13.5	22.5	22.5	40.5		27	60.5				204	58.5	50.5	121		93		1,261
2568	MOBILIZATION	LS	1																				1
2569	DEMOBILIZATION	LS	1																				1
2585	EDGE KEY	LIN FT	30		72	21	24	24	24		47	26				188	88	20	39	15	22		640

NOTES:
EARTHWORK CALCULATIONS

EXCAVATION

303,901	COM	MAINLINE E2RC	
31,272	COM	RAMPS	
11,389	COM	US 31W BYPASS	
12	COM	APPR. 432+15.27	
3	COM	APPR. 440+18.67	
333	COM	APPR. JOHNSTOWN ROAD	
2,541	COM	FRONTAGE ROAD 1	
16,710	COM	RINEYVILLE ROAD	
12,741	COM	TIMBER LANE	
1,754	COM	FRONTAGE ROAD 2	
121	COM	FRONTAGE ROAD 3	
2,070	COM	RING ROAD	
304	COM	FRANKLIN CONNECTOR	
2,887	COM	FONTAINE-SANTANA DRIVE	
726	COM	SEVERNS VALLEY CONN.	
1,402	COM	FRONTAGE ROAD 4	
4,382	COM	ROBBIN-BROOKE ROAD	
3,382	COM	HUTCHERSON LANE	
3,498	COM	FRONTAGE ROAD 5	
11,339	COM	KY 1600	
1	COM	ROAD "D" & "E"	
678	COM	SOLID ROCK	
3,313	COM	DITCH EXCAVATION	
2,726	COM	EMBANKMENT BENCHING	
32,659	COM	TRANSVERSE BENCHING	
450,144	TOTAL	EXCAVATION	

EMBANKMENT

204,197	EMB	MAINLINE E2RC	
118,091	EMB	RAMPS	
5,650	EMB	US 31W BYPASS	
2	EMB	APPR. 432+15.27	
1,213	EMB	APPR. 436+57.15	
92	EMB	APPR. 440+18.67	
29,040	EMB	APPR. JOHNSTOWN ROAD	
3,392	EMB	FRONTAGE ROAD 1 CONNECTOR	
1,392	EMB	FRONTAGE ROAD 1	
1,746	EMB	RINEYVILLE ROAD	
24	EMB	TIMBER LANE	
6	EMB	FRONTAGE ROAD 2	
2,385	EMB	FRONTAGE ROAD 3	
949	EMB	RING ROAD	
43	EMB	FRANKLIN CONNECTOR	
3,343	EMB	FONTAINE-SANTANA DRIVE	
5	EMB	SEVERNS VALLEY CONN.	
183	EMB	FRONTAGE ROAD 4	
740	EMB	ROBBIN-BROOKE ROAD	
1,082	EMB	HUTCHERSON LANE	
600	EMB	FRONTAGE ROAD 5	
1,139	EMB	KY 1600	
1,008	EMB	ROAD "D" & "E"	
376,322	TOTAL	EMBANKMENT	

- (1) APPROXIMATELY 67.57 ACRES (REMOVAL OF EXISTING PIPE IS INCIDENTAL TO CLEARING AND GRUBBING)
- (2) ESTIMATED QUANTITY FROM EROSION CONTROL PLANS

FOR PAVING QUANTITIES - SEE PAVING SUMMARY SHEET

FOR DRAINAGE QUANTITIES - SEE DRAINAGE SUMMARY SHEETS

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	04-8103.10	R2DD

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
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ITEM	DESCRIPTION	UNIT	LOCATION																	PROJECT TOTALS			
			E2RC MAINLINE	RAMPS	US 31W BYPASS	APPR. 432+15.27 MALL STREET	APPR. 436+57.15 OAK STREET	APPR. 440+18.67 WESTPORT ROAD	APPR. JOHNSTOWN ROAD	FRONTAGE ROAD CONNECTOR 1	FRONTAGE ROAD 1	RINEYVILLE RD.	TIMBER LANE	FRONTAGE RD. 2	FRONTAGE RD. 3	RING ROAD & RALPH FRANKLIN ROAD CONNECTOR	FONTAINE-SANTANA & SV CONNECTOR	FRONTAGE RD. 4 & ROBBIN-BROOKE	HUTCHERSON LANE		FRONTAGE ROAD 5	KY 1600 & RD D & E	ENTRANCES
8150	STEEL REINFORCEMENT	⑧ LB			326																		326
8904	CRASH CUSHION TY VI CLASS C	EACH			2																		2
10203ND	PAVEMENT ADJUSTMENT (ASPHALT)	⑫ LP SUM																					1
10203ND	PAVEMENT ADJUSTMENT (CONCRETE)	⑫ LP SUM																					1
20099ES842	PAVEMENT MARKING TEMPORARY PAINT STOP BAR	⑤ LIN FT			24																		24
20100ES842	PAVEMENT MARKING TEMPORARY PAINT LINE ARROW	⑤ EACH			22																		22
20394ES835	PVC CONDUIT - 3 IN - IN MEDIAN BARRIER WALL	LIN FT			1,066																		1,066
20509ED	BLOW UP/RELIEF JOINT	SQ YD			373																		373
20997ED	REMOVE TRAFFIC ISLAND	SQ YD			1,066																		1,066
21655EN	REMOVE ASBESTOS PIPE	⑫ LIN FT	7,800																				7,800
21788ED	OPEN CUT W/STEEL ENCASEMENT	LIN FT			190																		190
20997ED	BORE AND JACK ENCASEMENT PIPE INSTALL	LIN FT			150																		150
23131ER701	PIPELINE VIDEO INSPECTION	⑩ LIN FT	2,191	319	511		73		59	43	16	150	34	22	65	60	104	197	173	67	48	102	4,234
23274EN11F	TURF REINFORCEMENT MAT TYPE 1	SQ YD	13,094	962	236				32		78	1,940	564	167	417	277	996	928	1,291	1,062	494		22,538
23791EC	PAVE STRIPING - CHEVRON MARKINGS	SQ FT	4,985																				4,985
23158ES505	DETECTABLE WARNINGS	SQ FT	90												20								110

- NOTES:**
- ⑨ TEMPORARY PAINT TO BE USED WITH ASPHALT ALTERNATE. FOR CONCRETE ALTERNATE USE TEMPORARY TAPE (BID ITEMS 6549, 6550, AND 6551).
 - ⑩ ALL THERMO ITEMS SHALL BE FLINT PREMARK MATERIAL.
 - ⑪ TEMPORARY PIPE CONSTRUCTION SHALL BE INCIDENTAL TO DIVERSION CONSTRUCTION FOR MAINTENANCE OF TRAFFIC.
 - ⑫ SEE PROPOSAL FOR SPECIAL NOTE ALTERNATE PAVEMENT BID ADJUSTMENT.
 - ⑬ SEE SPECIAL NOTE FOR ASBESTOS REMOVAL.

FOR PAVING QUANTITIES -
SEE PAVING SUMMARY SHEET

FOR DRAINAGE QUANTITIES -
SEE DRAINAGE SUMMARY SHEETS

USER: PEC_ashley-m
 DATE: 8/12/2011
 FILE NAME: GEN_SUM-combined.dgn
 E-SHEET NAME: GEN_SUM-combined.dgn

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R92

ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT STANDARD DRAWINGS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REMOVAL OF PAVEMENT MARKINGS

PAVEMENT MARKINGS SHALL BE REMOVED BY EITHER AN ABRASIVE OR BURNING PROCESS TO THE SATISFACTION OF THE ENGINEER. IF THE ABRASIVE METHOD IS USED, THE AREA AFFECTED IS TO BE COATED WITH BLACK (OR MORE PRECISELY, A COLOR SIMILAR TO THAT OF THE ADJACENT PAVEMENT SURFACE) TRAFFIC PAINT. PAINTING OF EXISTING MARKINGS WITH BITUMINOUS OR OTHER MATERIALS TO OBLITERATE THE MARKINGS SHALL NOT BE ALLOWED.

BLASTING OPERATIONS

DURING BLASTING OPERATIONS, TRAFFIC MAY BE HALTED A MAXIMUM OF 15 MINUTES PER HOUR TO ALLOW THE EXECUTION OF THE "SHOT" AND TO ALLOW FOR REMOVAL OF ROCK FRAGMENTS AND DEBRIS. BLASTING WILL NOT BE PERMITTED BETWEEN THE HOURS OF 6:30 AM AND 9:00AM OR BETWEEN THE HOURS OF 3:30 PM AND 6:00 PM.

THE CONTRACTOR, WHEN USING EXPLOSIVE CHARGES OF ANY KIND FOR THE PURPOSE OF EXCAVATING, REMOVAL, ETC., ON THIS PROJECT SHALL HALT ALL TRAFFIC A SAFE DISTANCE ON EITHER SIDE OF THE IMPENDING EXPLOSION.

THE CONTRACTOR SHALL HAVE SUITABLE EQUIPMENT AT THE SITE AND IN RUNNING MODE FOR THE PURPOSE OF CLEANING THE EXISTING PAVEMENT OF ALL DEBRIS.

AFTER ANY BLAST, THE CONTRACTOR SHALL IMMEDIATELY INSPECT THE PAVEMENT FOR ANY DEBRIS THAT MAY BE A HAZARD TO TRAFFIC BEFORE ALLOWING TRAFFIC TO PROCEED ON THE AFFECTED SECTION.

WHEN BLASTING, THE CONTRACTOR SHALL HALT TRAFFIC, BLAST, CLEAN THE EXISTING PAVEMENTS AND RETURN TRAFFIC TO NORMAL OPERATION IN THE LEAST AMOUNT OF TIME POSSIBLE.

LANE WIDTHS

THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVEL WAY WITH A MINIMUM LANE WIDTH OF 10 FEET. HOWEVER, DURING WORKING HOURS, ONE-LANE TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE TRAFFIC CONTROL IS IN PLACE AT THE LOCATION. TWO-WAY TRAFFIC MUST BE MAINTAINED BETWEEN 6:30-9:30 AM AND 3:30-6:00 PM.

PAVEMENT EDGE DROP-OFFS

A PAVEMENT EDGE THAT TRAFFIC IS EXPECTED TO CROSS IN A LANE CHANGE SITUATION SHALL NOT HAVE AN ELEVATION DIFFERENCE GREATER THAN 1 1/2 INCHES. THIS MAY BE INCREASED TO 2 INCHES FOR LOW SPEED SITUATIONS. WARNING SIGNS SHALL BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA WHEN DROP-OFFS ARE GREATER THAN 1/2 INCH. MODIFICATIONS WILL BE AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGES THAT TRAFFIC IS NOT EXPECTED TO CROSS, SHALL BE TREATED AS FOLLOWS; OR, AS DIRECTED BY THE ENGINEER:

LESS THAN 1/2 INCH - NO PROTECTION REQUIRED.

1/2 TO 2 INCHES - WARNING SIGNS SHALL BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

2 TO 4 INCHES - PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES SHALL BE PLACED EVERY 50 FEET FOR SPEEDS LESS THAN 50 MILES PER HOUR AND EVERY 100 FEET FOR SPEEDS OF 50 MILES PER HOUR AND GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, VERTICAL PANELS, AND BARRICADES DURING DAYLIGHT HOURS. SPACING FOR TAPERS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

4 INCHES AND GREATER - POSITIVE SEPARATION NEEDED OR WEDGE WITH 3:1 OR FLATTER SLOPE. IF THERE IS 8 FEET OR MORE DISTANCE BETWEEN THE EDGE OF PAVEMENT AND DROP-OFF, PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES MAY BE USED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHALL BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS 4 INCHES AND GREATER MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

PAYMENT WILL BE ALLOWED FOR DGA MATERIAL USED FOR WEDGING.

PROJECT PHASING

NORMAL CONSIDERATION SHOULD BE GIVEN TO PROPERTY OWNERS FOR THEIR ACCESS.

CONSTRUCT EROSION CONTROLS AT POINTS WHERE RUNOFF LEAVES THE PROJECT SITE.

BEGIN EARTHWORK, UTILIZING TEMPORARY DIVERSION DITCHES TO DIRECT RUNOFF TO EROSION CONTROLS. REPAIR AND/OR UPGRADE PAVEMENT ALONG AND ACROSS EXISTING ROADS WHERE CONSTRUCTION TRAFFIC CROSSES.

ACCESS TO ALL PUBLIC ROADS TO BE MAINTAINED EXCEPT AS INDICATED IN THE MAINTENANCE OF TRAFFIC NOTES

TUBULAR MARKERS WILL BE PLACED TO SEPARATE TRAFFIC IN ACCORDANCE WITH MUTCD GUIDELINES (SPACING 1* SPEED LIMIT IN CROSSOVER AREAS (45 FEET) AND SPACING OF 2* SPEED LIMIT IN CONSTRUCTION AREAS (90 FEET)) FOR MOT PHASES 2 AND 3 ON THE US 31W BYPASS.

PAVING ALTERNATIVE

THESE MAINTENANCE OF TRAFFIC PLANS WERE DEVELOPED FOR THE ASPHALT PAVING ALTERNATIVE. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL PLANS, PHASING, SIGNING, AND NOTES FOR CONCRETE PAVING, SHOULD THAT ALTERNATIVE BE CHOSEN. THOSE PLANS WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE CABINET BEFORE CONSTRUCTION BEGINS.

TRAFFIC CONTROL COORDINATOR

THE CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL COORDINATOR TO MONITOR TRAFFIC CONTROL DEVICES 24 HOURS A DAY THROUGHOUT THE DURATION OF THE PROJECT. THE TRAFFIC CONTROL COORDINATOR SHALL BE EQUIPPED WITH A TRUCK, CELLULAR PHONE, FIVE (5) GALLONS OF GAS, AND JUMPER CABLES TO ASSIST THE TRAVELING PUBLIC AND TO KEEP THE TRAFFIC LANES OPEN AT ALL TIMES. THE TRAFFIC CONTROL COORDINATOR SHALL NOT BE USED FOR ANY OTHER OPERATION ON THE PROJECT NOT RELATING TO TRAFFIC CONTROL AND/OR OPERATIONS THAT WILL PREVENT THE COORDINATOR FROM MONITORING THE TRAFFIC CONTROL DEVICES ON THE ENTIRE PROJECT FOR A PERIOD LONGER THAN ONE HOUR. THE TRAFFIC CONTROL COORDINATOR SHALL BE PAID FOR AT THE LUMP SUM BID FOR MAINTENANCE OF TRAFFIC.

PHASE 1

MAINTAIN TRAFFIC PHASE 1

PHASE 1 IS TO BE ACCOMPLISHED WHILE MAINTAINING TRAFFIC ON EXISTING ROADS.

SHIFT US 31W BYPASS TRAFFIC ONTO OUTSIDE NB AND SB LANES.

INSTALL TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS FOR BRIDGE PIER CONSTRUCTION

CONSTRUCTION PHASE 1

FROM STA. 430+07 TO 445+00 CONSTRUCT STORM SEWER THROUGH BOTTOM PHASE OF INLETS. CONSTRUCT CROSS PIPES 432+15, 437+35 AND 438+00 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL, AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.

RIGHT STA. 435+00 TO 444+00 CONSTRUCT TEMPORARY PAVEMENT WIDENING.

FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

FROM STA. 451+50 TO 458+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO EXISTING GRADE (TEMPORARY PAVEMENT).

FROM STA. 473+35 TO 475+50, 494+50 TO RING ROAD, RING ROAD TO 507+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. STA. 475+50 TO 494+50, 508+00 TO 514+25, 515+25 TO 520+00, CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 520+00 TO 535+83, STA. 536+15 TO 549+00 AND STA. 552+00 TO END CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 551+00 TO 552+00, CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

FROM STA. 462+00 TO 476+00 +/- CONSTRUCT TEMPORARY PAVEMENT WIDENING. CONSTRUCT TEMPORARY PIPES AND JUNCTION BOX AND/OR EXTEND PIPES TO ALLOW DRAINAGE UNDER TIMBER LN. AND EX. RINEYVILLE RD. TEMPORARY PAVEMENT.

INSTALL TEMPORARY GUADRAIL AND TEMPORARY CONCRETE MEDIAN BARRIER TYPE 9T STA 451+50 TO STA 460+00.

CONSTRUCT PART WIDTH KY 1600 BRIDGE (LEFT OF KY 1600 CL) OVER US 31W BYPASS.

CONSTRUCT DOUBLE 12' X 9' CULVERT ON SHAW CREEK (LEFT OF CENTERLINE).

EXTEND CROSS PIPE STA. 453+78.28 (LEFT OF CENTERLINE).

CONSTRUCT CROSS PIPES AT STA. 486+00, 503+00 (TO APPROX. 35' RT), AND 517+32.

CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 488+25, 500+93 AND 511+42.

CONSTRUCT CROSS PIPE AT STA. 534+33.1 AND MEDIAN INLETS AND PIPES AT STA. 524+50, 533+43, 536+62, 545+00 AND 555+00.

BEGIN CONSTRUCTING PORTIONS OF RAMPS C, C2, D, D2 AND RETAINING WALLS WHILE MAINTAINING TRAFFIC ON EXISTING ROADS. CONSTRUCT PIPES (RAMP C2) STA 6001+08 AND 6001+69, (RAMP D) STA 1701+75.85, AND (RAMP D2) STA 7000+65.05.

CONSTRUCT DBI (BYPASS) STA 190+50 AND 189+43 AND OUTLET AT 189+43.

REMOVE BOTH ISLANDS AT US 31W AND US 31W BYPASS INTERSECTION. PAVE AREA FLUSH WITH ROADWAY.

REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. REMOVE EXISTING MEDIAN GUARDRAIL AND MEDIAN BOXES.

CONSTRUCT JOHNSTOWN ROAD APPROACH TO TOP OF BASE COURSE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD STA 41+20. CONSTRUCT JOHNSTOWN ROAD ENTRANCE 44+50 ENTRANCE PIPE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD (RELOCATED) STA 43+72.

CONSTRUCT FRONTAGE ROAD 1 CONNECTOR AND FRONTAGE ROAD 1 TO TOP OF BASE COURSE. CONSTRUCT PIPES AT FRONTAGE ROAD 1 CONNECTOR STA. 39+00 AND FRONTAGE ROAD 1 STA. 12+00.

CONSTRUCT PORTIONS OF RINEYVILLE ROAD TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROADS. CONSTRUCT ALL CROSS PIPES AND ENTRANCE PIPES.

MAINTAIN ACCESS TO TIMBER LANE AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT TEMPORARY PAVEMENT RIGHT OF EX. TIMBER LANE STA. 49+21 TO 50+07. SHIFT TIMBER LANE TRAFFIC TO SOUTH AND CONSTRUCT TEMPORARY PAVEMENT LEFT OF EX. TIMBER LANE STA. 43+39 TO EX. RINEYVILLE RD. CONSTRUCT TEMPORARY PIPE APPROX. 72' LEFT OF MAINLINE.

CONSTRUCT FRONTAGE ROAD NO. 2 FROM APPROX. STA 50+92 TO END TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCT FRONTAGE ROAD NO. 3 TO TOP OF BASE COURSE AND ALL CROSS PIPES. MAINTAIN ACCESS TO PROPERTY AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND CURB BOX INLETS ON RIGHT SIDE OF RING ROAD FROM BEGINNING TO MAINLINE.

CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND CURB BOX INLETS ON LEFT SIDE OF RING ROAD FROM MAINLINE TO END.

CONSTRUCT RALPH FRANKLIN ROAD CONNECTOR TO TOP OF BASE COURSE AND ENTRANCE PIPE.

CONSTRUCT PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROADS. CONSTRUCT ENTRANCE PIPE LT. STA. 5+21, CROSS PIPES STA 5+90 (TO APPROX. 14' RT.) AND STA. 12+75 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT.

CONSTRUCT FRONTAGE ROAD 4 TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT CROSS PIPE ON FRONTAGE ROAD.

CONSTRUCT PORTIONS OF ROBBIN-BROOKE ROAD THAT DO NOT DISTURB EXISTING ROADS TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE LEFT OF MAINLINE AND DROP BOX INLETS AND STORM SEWER RIGHT OF MAINLINE.

MAINTAIN ACCESS TO HUTCHERSON LANE AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT PORTIONS OF HUTCHERSON LANE RIGHT OF CENTERLINE THAT DO NOT DISTURB EXISTING ROAD TO TOP OF BASE COURSE. CONSTRUCT TEMPORARY PAVEMENT FROM STA. 45+60 TO MAINLINE AND FROM MAINLINE TO STA. 52+85. CONSTRUCT CROSS PIPE AT STA. 49+24 AND DRAINAGE SYSTEM AT STA. 51+32.6 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT.

ELIZABETHTOWN TO RADCLIFF CONNECTOR
MAINTENANCE OF TRAFFIC
NOTES

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

USER: PEC_ashley-m
DATE: 8/12/2011
FILE NAME: MOT_NoTes.dgn
E-SHEET NAME: MOT_NoTes.dgn
8/12/2011

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R92A

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

CONSTRUCT PORTIONS OF FRONTAGE ROAD 5, INCLUDING ROAD *E* INTERSECTION, THAT DO NOT DISTURB EXISTING ROADS TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT CROSS PIPES AT STA. 39+75 AND 44+00. CONSTRUCT PIPE RT. STA. 41+78 TO 42+54.

MAINTAIN ACCESS TO KY1600 AT ALL TIMES DURING CONSTRUCTION. FROM STA. 47+50 TO MAINLINE CONSTRUCT FULL WIDTH ROADWAY. FROM BEGIN TO STA. 47+50 CONSTRUCT PORTIONS OF KY1600 LEFT OF CENTERLINE THAT DO NOT DISTURB EXISTING ROAD TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 49+29.

PHASE 2

PRECONDITIONS TO BEGIN PHASE 2
 PHASE 2 CAN BEGIN AFTER COMPLETION OF KY 1600 STORM SEWER FROM STA 430+07 TO 444+50, PAVEMENT WIDENING BETWEEN 435+00 TO 444+00, TEMPORARY PAVEMENT RIGHT OF RINEYVILLE ROAD AND LEFT OF TIMBER LANE, COMPLETION OF PHASE 1 CONSTRUCTION ON RALPH FRANKLIN ROAD CONNECTOR AND FONTAINE DRIVE - SANTANA DRIVE, COMPLETION OF TEMPORARY PAVEMENT RIGHT OF HUTCHERSON LANE, AND COMPLETION OF PHASE 1

~~CONSTRUCTION ON PORTIONS OF FRONTAGE ROADS 4 AND 5.~~
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN NORTHBOUND DIRECTION FOR RCBC AND BRIDGE PIER CONSTRUCTION

MAINTAIN TRAFFIC PHASE 2
 SHIFT KY 1600 TWO LANE TRAFFIC ON RIGHT SIDE USING EXISTING AND TEMPORARY PAVEMENT, EXCEPT FOR INSTALL FLEXIBLE DELINEATOR POSTS ON NB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 SHIFT US 31W BYPASS TRAFFIC ONTO NB LANES (INNER LOOP).
 SHIFT RINEYVILLE ROAD TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT.
 SHIFT TIMBER LANE TRAFFIC LEFT USING TEMPORARY PAVEMENT. MAINTAIN TRAFFIC ON PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE CONSTRUCTED IN PHASE 1.
 SHIFT HUTCHERSON LANE TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT.
 RIGHT STA. BEGIN TO 436+32 KEEP EXISTING SIDEWALK OPEN FOR PEDESTRIANS.

CONSTRUCTION PHASE 2
 FROM STA. BEGIN TO 435+00 CONSTRUCT KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC.
 FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 FROM STA. 462+00 TO 473+35 CONSTRUCT PORTIONS OF LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 507+00 TO 508+00 AND STA. 514+25 TO 515+25 CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 514+25 TO 515+25 CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 507+69.7.

REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA 176+00 TO STA 235+00.

CONSTRUCT SB US 31W BYPASS LANES TO TOP OF BASE COURSE.

CONSTRUCT BYPASS CULVERTS 183+99, 204+50, AND BYPASS PIPE 190+50 RIGHT OF CENTERLINE.

FROM BEGIN TO STA. 48+50 CONSTRUCT PORTIONS OF TIMBER LANE TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROAD. FROM STA. 48+50 TO MAINLINE CONSTRUCT FULL WIDTH ROADWAY TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 49+27.

CONSTRUCT REMAINING PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE TO TOP OF BASE COURSE UNDER TRAFFIC. USE PART WIDTH CONSTRUCTION AS NEEDED. CONSTRUCT ENTRANCE PIPE RT. STA. 5+21 AND CONSTRUCT REMAINING PORTION OF CROSS PIPE RIGHT OF STA. 5+90. FROM LT. STA. 549+00 TO 552+10 CONSTRUCT TEMPORARY PAVEMENT CONNECTING MAINLINE ROADWAY CONSTRUCTED IN PHASE 1 TO EXISTING RINEYVILLE ROAD. FROM BEGIN TO EXISTING RINEYVILLE ROAD AND FROM EXISTING RINEYVILLE ROAD TO END CONSTRUCT REMAINING PORTIONS OF HUTCHERSON LANE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC. USE PART WIDTH CONSTRUCTION AS NEEDED. CONSTRUCT ALL ENTRANCE PIPES.

FROM STA. 43+00 TO 46+52 CONSTRUCT TEMPORARY PAVEMENT RIGHT OF KY1600.

MAINTAIN TRAFFIC PHASE 2A
 STA. 451+50 TO STA. 458+00, SHIFT MAINLINE TRAFFIC TO TEMPORARY PAVEMENT ON LEFT SIDE.

CONSTRUCTION PHASE 2A
 FROM STA. 451+50 TO 458+00 CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO EXISTING GRADE.
 CONSTRUCT DOUBLE 12' X 9' CULVERT SHAW CREEK (RIGHT OF CENTERLINE).
 EXTEND CROSS PIPE STA. 453+78+.28 (RIGHT OF CENTERLINE).

CONSTRUCT RAMPS A STA 1400+00 TO 1406+00 AND RAMP A2. CONSTRUCT CROSS PIPE STA. 4002+33 (RAMP A2).

MAINTAIN TRAFFIC PHASE 2B
 STA. 451+50 TO STA. 458+00, SHIFT MAINLINE ROADWAY TO EXISTING PAVEMENT.

CONSTRUCTION PHASE 2B
 FROM STA. 451+50 TO 458+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

PHASE 3

PRECONDITIONS TO BEGIN PHASE 3
 PHASE 3 CAN BEGIN AFTER COMPLETION OF ALL PHASE 2 CONSTRUCTION ITEMS.

MAINTAIN TRAFFIC PHASE 3
 SHIFT KY 1600 TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED ROADWAY.
~~INSTALL FLEXIBLE DELINEATOR POSTS ON SB US 31W BYPASS LANES TO SEPARATE TRAFFIC.~~
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN SOUTHBOUND DIRECTION FOR RCBC AND BRIDGE PIER CONSTRUCTION
 SHIFT US 31W BYPASS TRAFFIC ON SB LANES (OUTER LOOP).
 SHIFT EXISTING RINEYVILLE ROAD TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY.
 MAINTAIN KY 1600 PEDESTRIAN TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED SIDEWALK.

CONSTRUCTION PHASE 3
 FROM STA. 435+00 TO RING ROAD AND FROM RING ROAD TO STA. 507+00 FINISH CONSTRUCTION OF REMAINING MAINLINE ROADWAY TO TOP OF BASE COURSE.
 CONSTRUCT REMAINING CROSS PIPES STA 437+35, 447+00, AND 458+78. CONSTRUCT ENTRANCE PIPES AT ENTRANCE STA 435+23, 439+71, 440+76, AND 441+31. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.

CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 462+00 AND 473+40 AND CONSTRUCT REMAINING PORTION OF CROSS PIPE AT RT. STA. 503+00.

CONSTRUCT RAMP B AND COMPLETE CONSTRUCTION OF RAMPS A AND C. CONSTRUCT CROSS PIPES (RAMP A) STA 1406+86.66.

REMOVE EXISTING PAVEMENT MARKERS ALONG NB US31W BYPASS. CONSTRUCT NB US 31W BYPASS LANES TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPES (STA 190+50, 192+50, 197+50, 202+50, 207+50, AND 212+50.)

FINISH CONSTRUCTION OF BYPASS CULVERTS 183+99 AND 204+50.

FINISH CONSTRUCTION OF ALL APPROACHES UNDER TRAFFIC. CONSTRUCT CROSS PIPE APPROACH RT. 436+49.19 STA. 20+72 AND ENTRANCE PIPE ON FRONTAGE ROAD 2 AT STA. 50+24.39. CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND FLUME INLET ON RIGHT SIDE OF RING ROAD FROM MAINLINE TO END.

PRECONDITIONS TO BEGIN PHASE 3A
 PHASE 3A CAN BEGIN AFTER COMPLETION OF TEMPORARY PAVEMENT RIGHT OF KY 1600 AND LEFT OF MAINLINE TO EXISTING RINEYVILLE ROAD.

MAINTAIN TRAFFIC PHASE 3a
 SHIFT EXISTING RINEYVILLE ROAD TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY AND TEMPORARY PAVEMENT CONSTRUCTED IN PHASE 2 FROM MAINLINE TO EXISTING RINEYVILLE ROAD. SHIFT KY1600 TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT. CLOSE ROBBIN-BROOKE ROAD SOUTH OF STORAGE FACILITY ENTRANCE. DIRECT TRAFFIC TO USE VETERAN'S WAY AS AN ALTERNATE ROUTE.

CONSTRUCTION PHASE 3a
 FROM STA. 549+00 TO 551+00 FINISH CONSTRUCTION OF REMAINING RIGHT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 CONSTRUCT REMAINING PORTION OF ROBBIN-BROOKE ROAD TO TOP OF BASE COURSE. CONSTRUCT DROP BOX INLETS AND STORM SEWER SYSTEM.
 FINISH CONSTRUCTION OF HUTCHERSON LANE/EXISTING RINEYVILLE ROAD INTERSECTION TO TOP OF BASE COURSE UNDER TRAFFIC.

MAINTAIN TRAFFIC PHASE 3b
 SHIFT EXISTING TWO LANE TRAFFIC ON RIGHT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY AND NEWLY CONSTRUCTED KY1600 ROADWAY. OPEN ROBBIN-BROOKE ROAD.

CONSTRUCTION PHASE 3b
 FROM STA. 549+00 TO 552+00 FINISH CONSTRUCTION OF REMAINING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 FINISH CONSTRUCTION OF REMAINING PORTIONS OF FRONTAGE ROAD 5 AND ROAD *E* TO TOP OF BASE COURSE.

PHASE 4

CONSTRUCTION PHASE 4
 REMOVE CROSSOVER ON US 31W BYPASS STA 172+00 TO 176+00. PAVE TO FINAL COURSE. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA. 172+00 TO 176+00.

COMPLETE CONSTRUCTION OF FINISHED SLOPES AND APPLY SEEDING AND PROTECTION TO THE PROJECT.

PAVE FINAL SURFACING UNDER TRAFFIC.

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R93

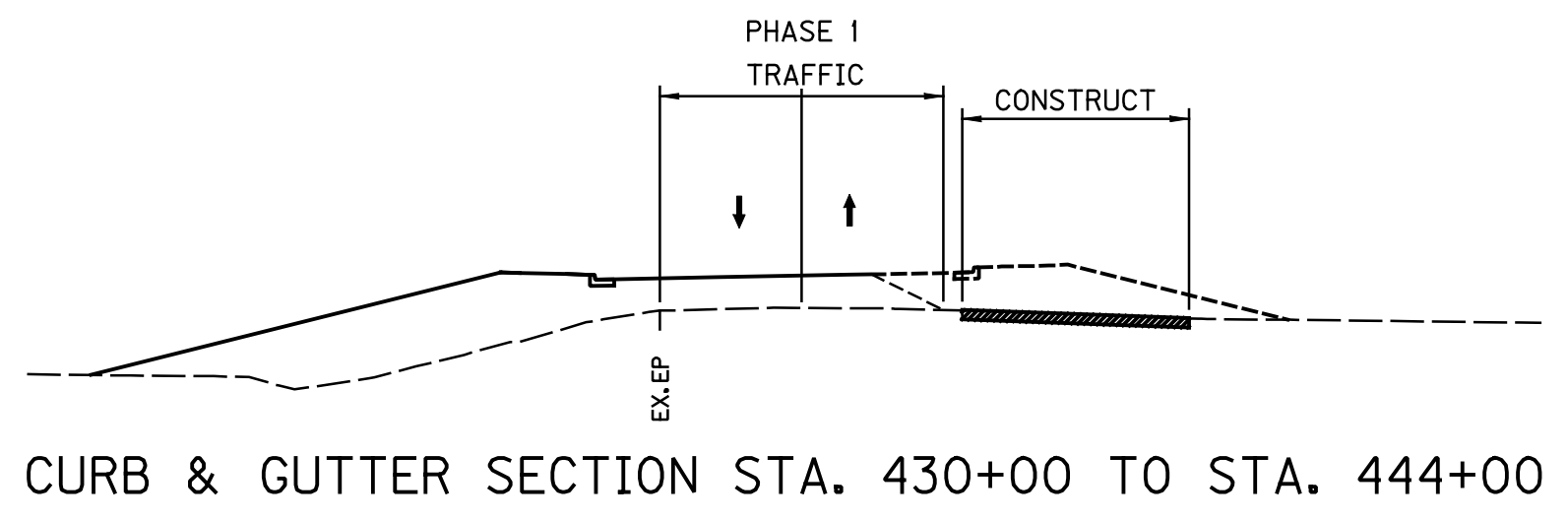
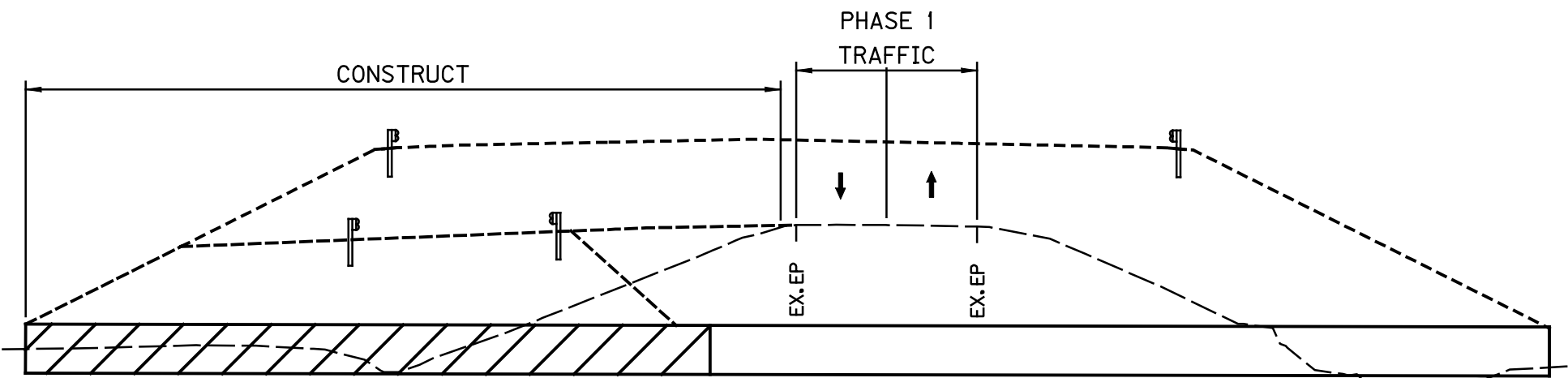
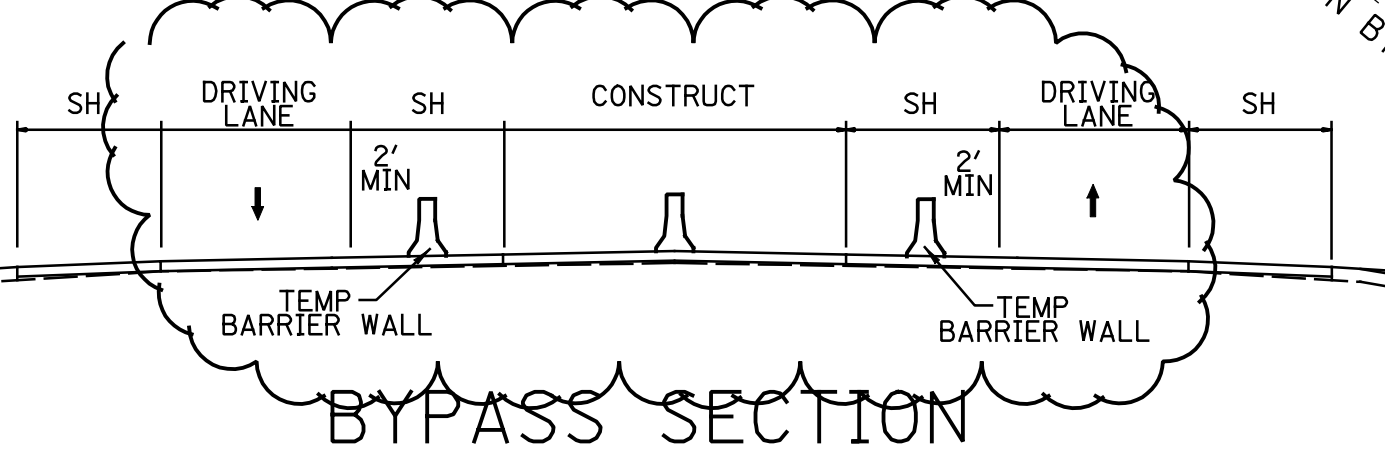
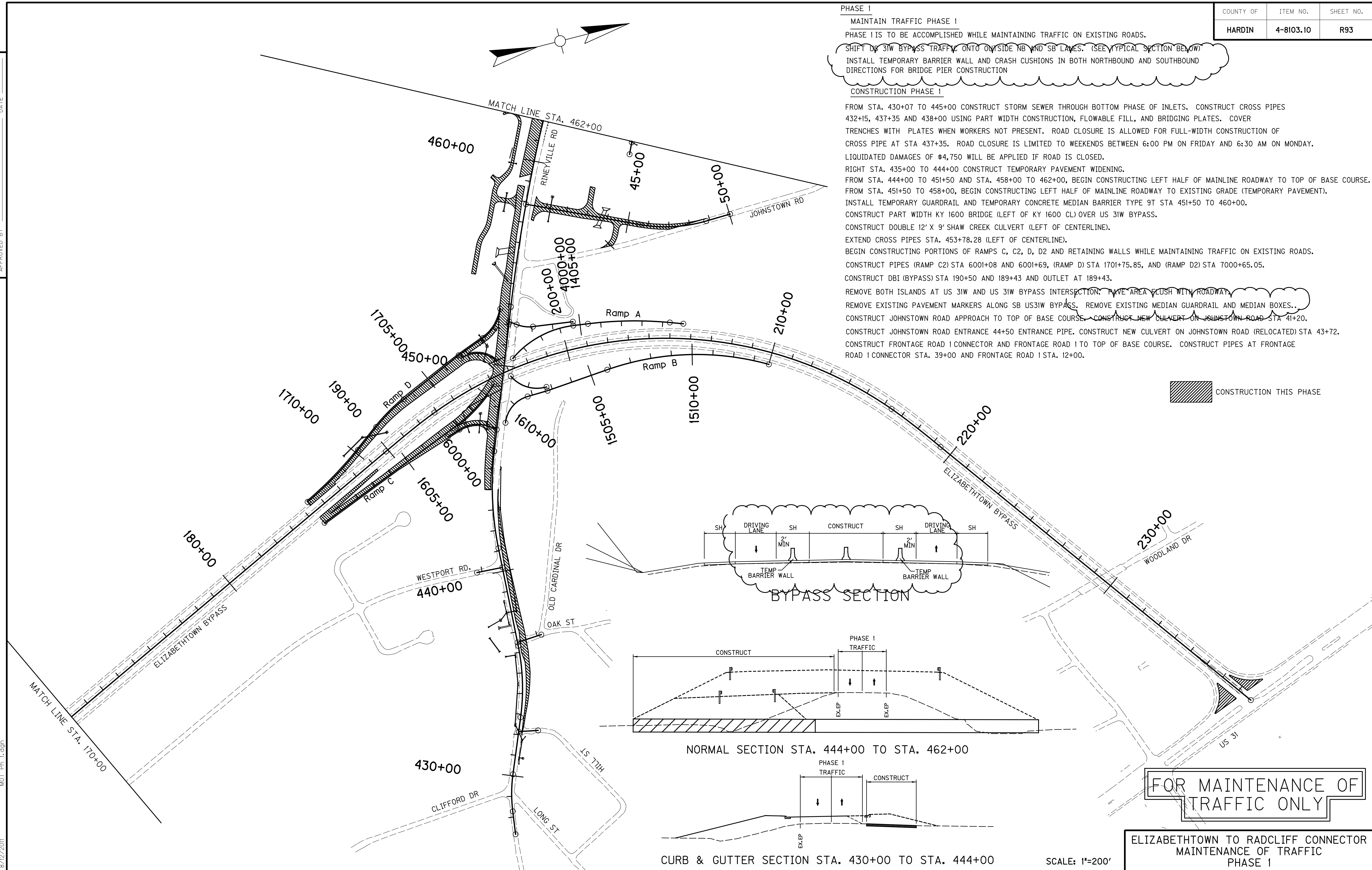
PHASE 1
 MAINTAIN TRAFFIC PHASE 1
 PHASE 1 IS TO BE ACCOMPLISHED WHILE MAINTAINING TRAFFIC ON EXISTING ROADS.
 SHIFT US 31W BYPASS TRAFFIC ONTO OUTSIDE NB AND SB LANES. (SEE TYPICAL SECTION BELOW)
 INSTALL TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS FOR BRIDGE PIER CONSTRUCTION
 CONSTRUCTION PHASE 1

FROM STA. 430+07 TO 445+00 CONSTRUCT STORM SEWER THROUGH BOTTOM PHASE OF INLETS. CONSTRUCT CROSS PIPES 432+15, 437+35 AND 438+00 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL, AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.
 RIGHT STA. 435+00 TO 444+00 CONSTRUCT TEMPORARY PAVEMENT WIDENING.
 FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 FROM STA. 451+50 TO 458+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO EXISTING GRADE (TEMPORARY PAVEMENT).
 INSTALL TEMPORARY GUARDRAIL AND TEMPORARY CONCRETE MEDIAN BARRIER TYPE 9T STA 451+50 TO 460+00.
 CONSTRUCT PART WIDTH KY 1600 BRIDGE (LEFT OF KY 1600 CL) OVER US 31W BYPASS.
 CONSTRUCT DOUBLE 12' X 9' SHAW CREEK CULVERT (LEFT OF CENTERLINE).
 EXTEND CROSS PIPES STA. 453+78.28 (LEFT OF CENTERLINE).
 BEGIN CONSTRUCTING PORTIONS OF RAMP C, C2, D, D2 AND RETAINING WALLS WHILE MAINTAINING TRAFFIC ON EXISTING ROADS.
 CONSTRUCT PIPES (RAMP C2) STA 6001+08 AND 6001+69, (RAMP D) STA 1701+75.85, AND (RAMP D2) STA 7000+65.05.
 CONSTRUCT DBI (BYPASS) STA 190+50 AND 189+43 AND OUTLET AT 189+43.
 REMOVE BOTH ISLANDS AT US 31W AND US 31W BYPASS INTERSECTION. PAVE AREA FLUSH WITH ROADWAY.
 REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. REMOVE EXISTING MEDIAN GUARDRAIL AND MEDIAN BOXES.
 CONSTRUCT JOHNSTOWN ROAD APPROACH TO TOP OF BASE COURSE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD STA 41+20.
 CONSTRUCT JOHNSTOWN ROAD ENTRANCE 44+50 ENTRANCE PIPE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD (RELOCATED) STA 43+72.
 CONSTRUCT FRONTAGE ROAD 1 CONNECTOR AND FRONTAGE ROAD 1 TO TOP OF BASE COURSE. CONSTRUCT PIPES AT FRONTAGE ROAD 1 CONNECTOR STA. 39+00 AND FRONTAGE ROAD 1 STA. 12+00.

 CONSTRUCTION THIS PHASE

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

USER: PEC_ashley-m
 DATE: 8/12/2011
 FILE NAME: MOT_Ph 1.dgn
 E-SHEET NAME: MOT_Ph 1.dgn
 8/12/2011



FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 PHASE 1

SCALE: 1"=200'

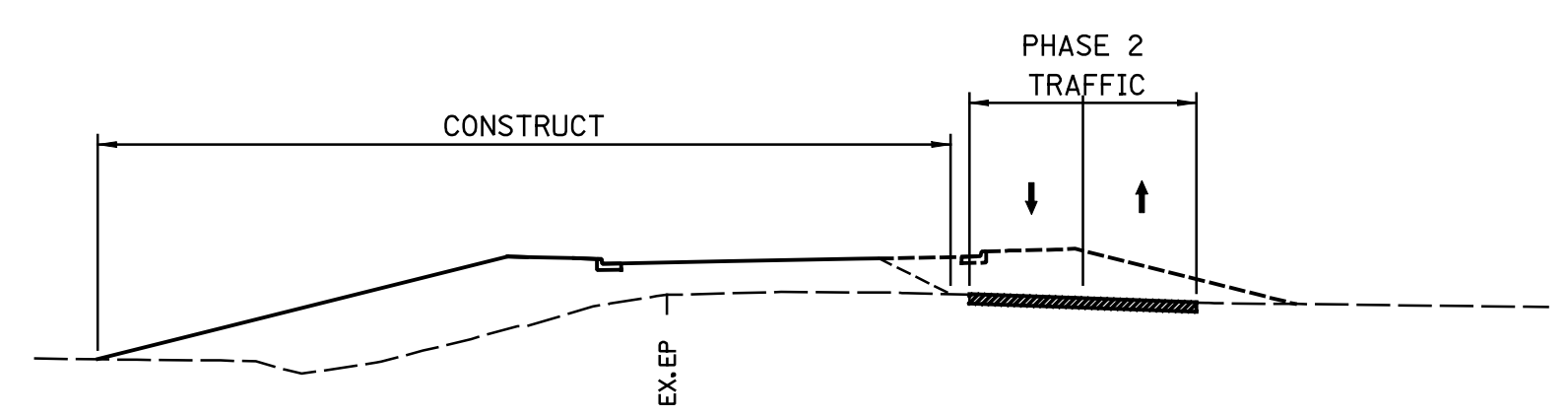
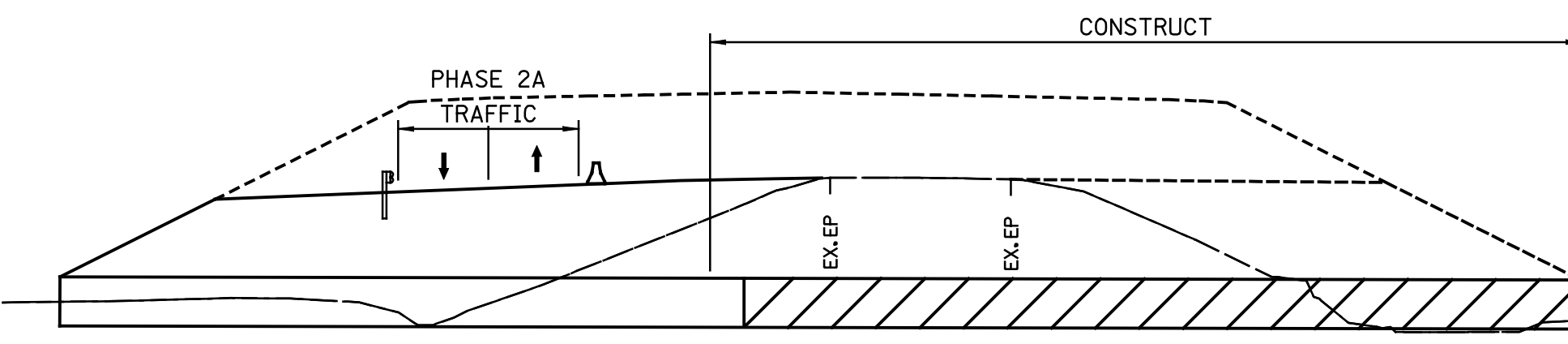
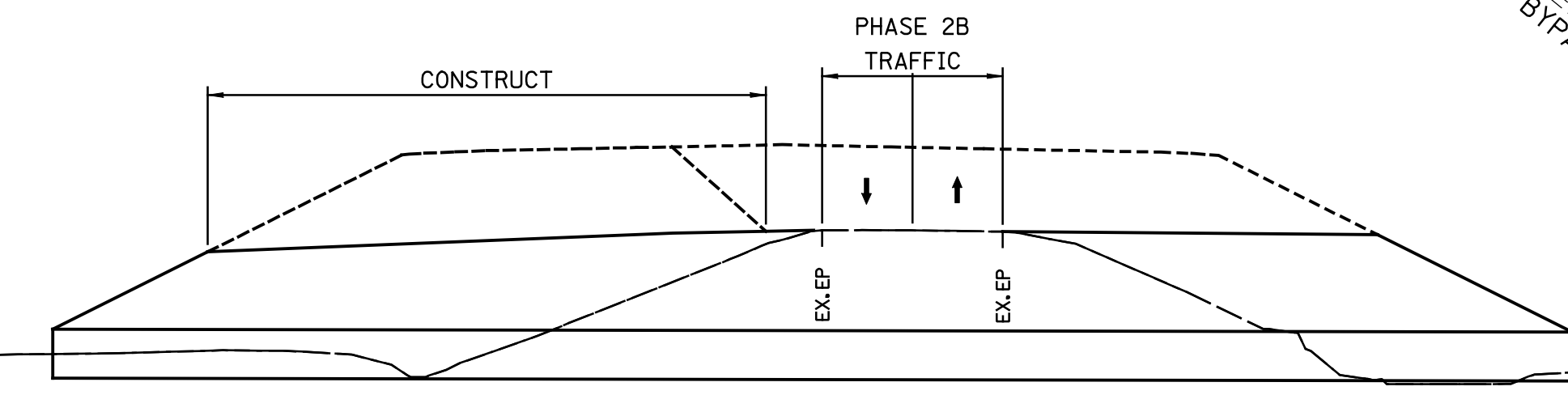
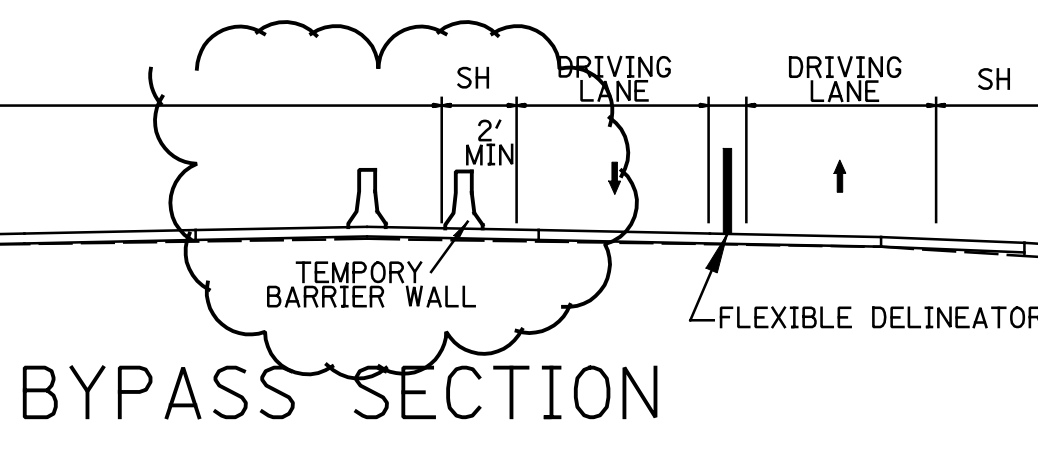
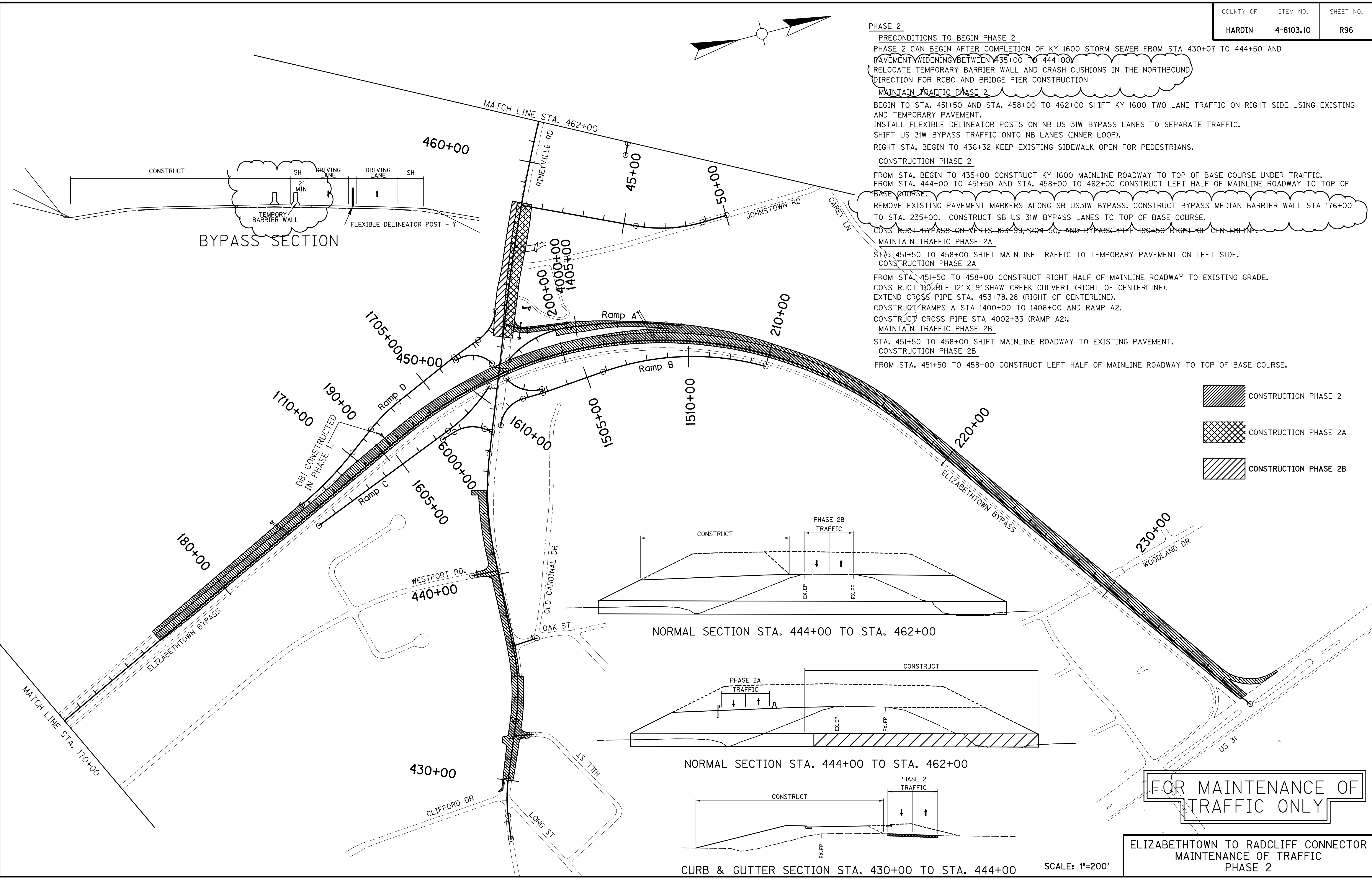
PHASE 2
PRECONDITIONS TO BEGIN PHASE 2
 PHASE 2 CAN BEGIN AFTER COMPLETION OF KY 1600 STORM SEWER FROM STA 430+07 TO 444+50 AND PAVEMENT WIDENING BETWEEN 435+00 TO 444+00.
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN THE NORTHBOUND DIRECTION FOR RBCB AND BRIDGE PIER CONSTRUCTION.
 MAINTAIN TRAFFIC PHASE 2.
 BEGIN TO STA. 451+50 AND STA. 458+00 TO 462+00 SHIFT KY 1600 TWO LANE TRAFFIC ON RIGHT SIDE USING EXISTING AND TEMPORARY PAVEMENT.
 INSTALL FLEXIBLE DELINEATOR POSTS ON NB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 SHIFT US 31W BYPASS TRAFFIC ONTO NB LANES (INNER LOOP).
 RIGHT STA. BEGIN TO 436+32 KEEP EXISTING SIDEWALK OPEN FOR PEDESTRIANS.

CONSTRUCTION PHASE 2
 FROM STA. BEGIN TO 435+00 CONSTRUCT KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC.
 FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA 176+00 TO STA. 235+00. CONSTRUCT SB US 31W BYPASS LANES TO TOP OF BASE COURSE.
 CONSTRUCT BYPASS CULVERTS 183+99, 204+50, AND BYPASS PIPE 190+50 RIGHT OF CENTERLINE.
 MAINTAIN TRAFFIC PHASE 2A

STA. 451+50 TO 458+00 SHIFT MAINLINE TRAFFIC TO TEMPORARY PAVEMENT ON LEFT SIDE.
CONSTRUCTION PHASE 2A
 FROM STA. 451+50 TO 458+00 CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO EXISTING GRADE.
 CONSTRUCT DOUBLE 12' X 9' SHAW CREEK CULVERT (RIGHT OF CENTERLINE).
 EXTEND CROSS PIPE STA. 453+78.28 (RIGHT OF CENTERLINE).
 CONSTRUCT RAMP A STA 1400+00 TO 1406+00 AND RAMP A2.
 CONSTRUCT CROSS PIPE STA 4002+33 (RAMP A2).
 MAINTAIN TRAFFIC PHASE 2B

STA. 451+50 TO 458+00 SHIFT MAINLINE ROADWAY TO EXISTING PAVEMENT.
CONSTRUCTION PHASE 2B
 FROM STA. 451+50 TO 458+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



- CONSTRUCTION PHASE 2
- CONSTRUCTION PHASE 2A
- CONSTRUCTION PHASE 2B

FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 PHASE 2

SCALE: 1"=200'

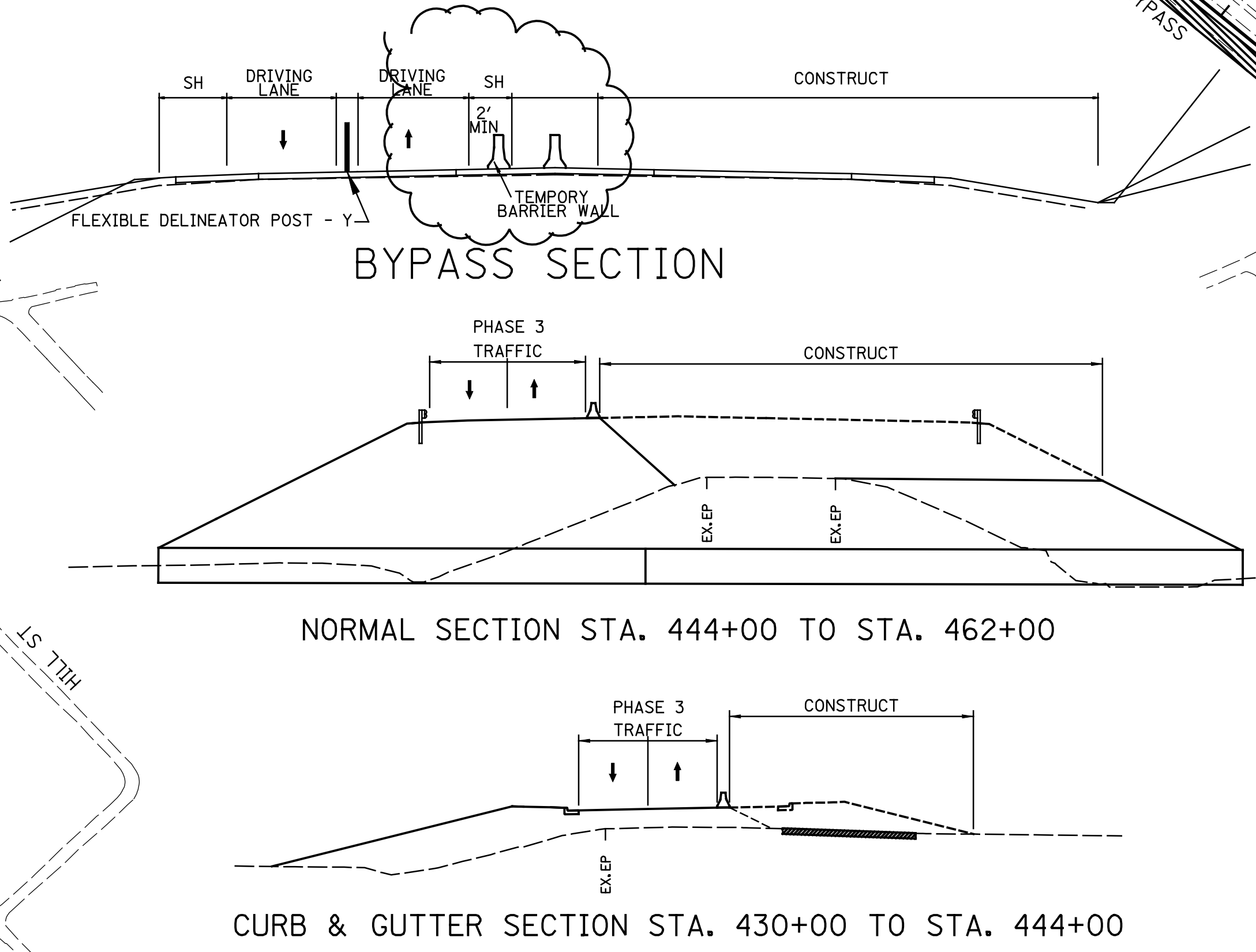
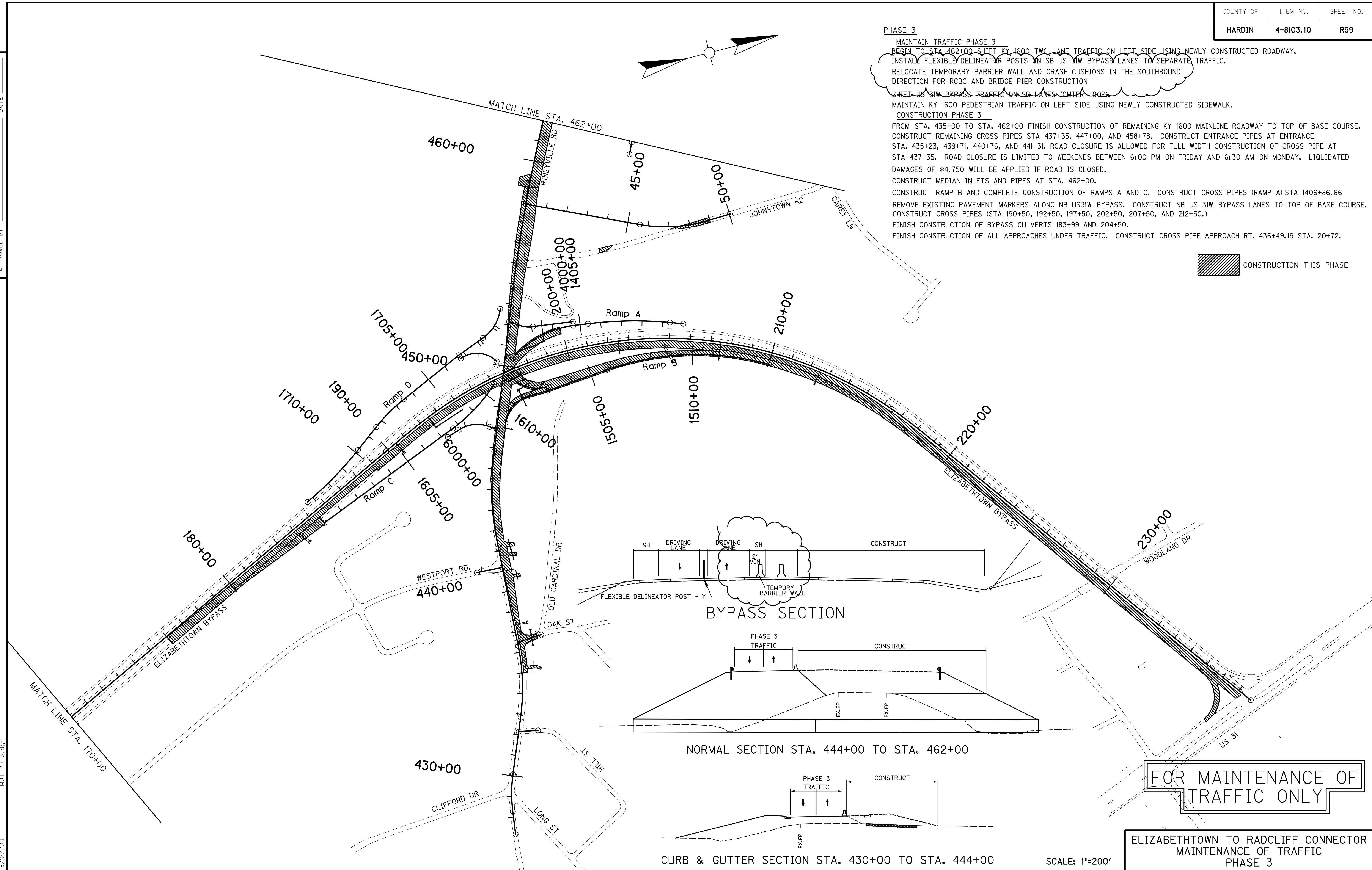
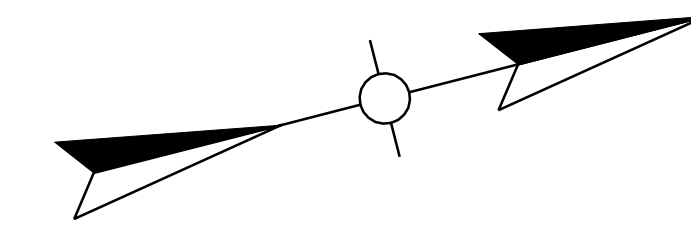
PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

PHASE 3

MAINTAIN TRAFFIC PHASE 3
 BEGIN TO STA. 462+00 SHIFT KY 1600 TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED ROADWAY.
 INSTALL FLEXIBLE DELINEATOR POSTS ON SB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN THE SOUTHBOUND DIRECTION FOR RBCB AND BRIDGE PIER CONSTRUCTION.
 SHIFT US 31W BYPASS TRAFFIC ON SB LANES (OUTER LOOP).
 MAINTAIN KY 1600 PEDESTRIAN TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED SIDEWALK.

CONSTRUCTION PHASE 3
 FROM STA. 435+00 TO STA. 462+00 FINISH CONSTRUCTION OF REMAINING KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE.
 CONSTRUCT REMAINING CROSS PIPES STA 437+35, 447+00, AND 458+78. CONSTRUCT ENTRANCE PIPES AT ENTRANCE STA. 435+23, 439+71, 440+76, AND 441+31. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.
 CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 462+00.
 CONSTRUCT RAMP B AND COMPLETE CONSTRUCTION OF RAMPS A AND C. CONSTRUCT CROSS PIPES (RAMP A) STA 1406+86.66
 REMOVE EXISTING PAVEMENT MARKERS ALONG NB US31W BYPASS. CONSTRUCT NB US 31W BYPASS LANES TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPES (STA 190+50, 192+50, 197+50, 202+50, 207+50, AND 212+50.)
 FINISH CONSTRUCTION OF BYPASS CULVERTS 183+99 AND 204+50.
 FINISH CONSTRUCTION OF ALL APPROACHES UNDER TRAFFIC. CONSTRUCT CROSS PIPE APPROACH RT. 436+49.19 STA. 20+72.

 CONSTRUCTION THIS PHASE



FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 PHASE 3

SCALE: 1"=200'

USER: PEC_ashley-m
 DATE: 8/12/2011
 FILE NAME: MOT_Ph_3.dgn
 E-SHEET NAME: MOT_Ph_3.dgn
 8/12/2011

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	04-8103.10	R2CC

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	E2RC MAINLINE	RAMPS	US 31W BYPASS	APPR. 432+15.27 MALL STREET	APPR. 436+57.15 OAK STREET	APPR. 440+18.67 WESTPORT ROAD	APPR. JOHNSTOWN ROAD	FRONTAGE ROAD CONNECTOR 1	FRONTAGE ROAD 1	RINEYVILLE RD.	TIMBER LANE	FRONTAGE RD. 2	FRONTAGE RD. 3	RING ROAD & RALPH FRANKLIN ROAD CONNECTOR	FONTAINE-SANTANA & SV CONNECTOR	FRONTAGE RD. 4 & ROBBIN-BROOKE	HUTCHERSON LANE	FRONTAGE ROAD 5	KY 1600 & RD D & E	ENTRANCES	PROJECT TOTALS	
2599	FABRIC-GEOTEXTILE TYPE IV	SQ YD	1,110		920							42					62		25	17			2,176	
2610	RETAINING WALL-GABION	CU YD	84																					84
2650	MAINTAIN & CONTROL TRAFFIC	LS	1																					1
2651	DIVERSIONS (BY-PASS DETOURS) ②	LS	1																					1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2		3											2								7
2690	SAFEOLOADING	CU YD	22		131																			153
2696	SHOULDER RUMBLE STRIPS - SAWED	LIN FT			13,252																			13,252
2701	TEMPORARY SILT FENCE ②	LIN FT	12,883	5,592	6,626	76	100	100	900	160	888	2,759	813	616	339	1,397	1,266	2,006	1,383	1,238	871		40,013	
2703	SILT TRAP TYPE A ②	EACH	70	28	40				5		2	7	2	1	1	4	2	3	3	2	2		172	
2704	SILT TRAP TYPE B ②	EACH	70	28	40				5		2	7	2	1	1	4	2	3	3	2	2		172	
2705	SILT TRAP TYPE C ②	EACH	76	43	60				7		3	7	2	1	1	9	2	3	3	2	2		221	
2706	CLEAN SILT TRAP TYPE A ②	EACH	210	84	120				15		6	21	6	3	3	12	6	9	9	6	6		516	
2707	CLEAN SILT TRAP TYPE B ②	EACH	210	84	120				15		6	21	6	3	3	12	6	9	9	6	6		516	
2708	CLEAN SILT TRAP TYPE C ②	EACH	228	129	180				21		9	21	6	3	3	27	6	9	9	6	6		663	
2709	CLEAN TEMPORARY SILT FENCE ②	LIN FT	12,883	5,592	6,626	76	100	100	900	160	888	2,759	813	616	339	1,397	1,266	2,006	1,383	1,238	871		40,013	
2714	SHOULDERING	LIN FT			13,252																			13,252
2720	SIDEWALK - 4 IN CONCRETE	SQ YD	1,161									95				161		258						1,675
2723	SIDEWALK - 6 IN CONCRETE ⑩	SQ YD			1,386																			1,386
2726	STAKING	LP SUM	1																					1
2731	REMOVE STRUCTURE ⑫	LP SUM	1																					1
2731	REMOVE STRUCTURE ⑬	LP SUM	1																					1
2775	ARROW PANEL ⑮	EACH			2																			2
2898	RELOCATE CRASH CUSHION ⑮	EACH			10																			10
2900	INSTALL TEMP CRASH CUSHION ⑮	EACH			7																			7
2998	MASONRY COATING	SQ YD			3,549																			3,549
3171	CONCRETE BARRIER WALL TYPE 9T ⑮	LIN FT	1,750		1,600																			3,350
3225	TUBULAR MARKERS ⑱	EACH			312																			312
3287	SIDEWALK RAMP TYPE 1	EACH	9													1								10
4953	TEMP RELOCATION OF SIGNAL HEAD ⑮	EACH	1		4																			5
5950	EROSION CONTROL BLANKET ⑯	SQ YD	10,374	7,954	10,228				1,465		532	755	330	405		57	320	186						32,606
5952	TEMPORARY MULCH ⑲	SQ YD	292,499	68,728	96,800				11,132		4,356	32,099	7,139	4,227	3,317	19,344	10,991	15,160	14,196	10,987	8,827			599,802
5953	TEMPORARY SEEDING AND PROTECTION ⑲	SQ YD	18,144	2,847	2,132				801		244	2,234	492	305	187	908	659	1,019	914	836	549			32,271
5966	TOP DRESSING FERTILIZER	TON	9.57	1.50	1.10				0.40		0.10	1.16	0.25	0.16	0.10	0.57	0.34	0.53	0.47	0.43	0.28			16.96
5985	SEEDING AND PROTECTION ⑲	SQ YD	181,443	28,467	21,321				8,013		2,437	22,341	4,918	3,052	1,868	9,082	6,591	10,189	9,143	8,355	5,493			322,713
5989	SPECIAL SEEDING CROWN VETCH	SQ YD	30,732	9,979	1,434				1,682			3,193	2,134	668		669	231	1,205	848	973	1,548			55,296
5990	SODDING	SQ YD	8,445																					8,445
6510	PAVE STRIPING - TEMP PAINT - 4 IN ⑲	LIN FT	36,092	23,590	66,540	152	252	224	3,860	76														130,786
6513	PAVE STRIPING - TEMP PAINT - 12 IN	LIN FT		4,442	3,242																			7,684
6514	PAVEMENT STRIPING - PERM PAINT - 4 IN	LIN FT	77,058	11,795		76	126	112	1,930	38		11,759	1,587		1,510	8,090	1,111	632	4,515		2,805		123,144	
6542	PAVEMENT STRIPING - THERMO - 6 INCH W	LIN FT			19,617																			19,617
6543	PAVEMENT STRIPING - THERMO - 6 INCH Y	LIN FT			13,653																			13,653
6546	PAVEMENT STRIPING - THERMO- 12 INCH W	LIN FT		2,221	1,621																			3,842
6567	PAVEMENT MARKING - THERMO STOP BAR - 12 IN ⑳	LIN FT				21	30	22	42	28		58	72		72	75	153	76	66		46		761	
6568	PAVEMENT MARKING - THERMO STOP BAR - 24 IN ⑳	LIN FT	170	109	25											120								424
6574	PAVEMENT MARKING - PREF THERMO CURVE ARROW ⑳	EACH	70	2	1				1				2		2	25	3	2	3		7		118	
6575	PAVEMENT MARKING - PREF THERMO COMBO ARROW ⑳	EACH			1				1				2			3	1	3					11	
6585	PAVEMENT MARKER IVA-MW TEMP ㉑	EACH			95																			95
6588	PAVEMENT MARKER IVA-BY TEMP ㉑	EACH			663																			663
6589	PAVEMENT MARKER TYPE V - MW	EACH			166																			222
6591	PAVEMENT MARKER TYPE V - BY	EACH														56								42
6592	PAVEMENT MARKER TYPE V - B W/R	EACH		73	50																			123
6593	PAVEMENT MARKER TYPE V - B Y/R	EACH		103																				103
6600	REMOVE PAVEMENT MARKERS TYPE V	EACH			84																			84
8100	CONCRETE-CLASS A ㉒	CU YD			8.1																			8.1

NOTES:

- ③ ESTIMATED AT 2.125 M. GALLONS PER MILE (FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY)
- ④ ESTIMATED AT 25% OF R/W MONUMENTS
- ⑤ FOR MAINTENANCE OF TRAFFIC
- ⑥ INCLUDES 1,200.6 S.Y. FROM EROSION CONTROL PLANS
- ⑦ ESTIMATED AT 10% OF TOTAL SEEDING & PROTECTION
- ⑧ FOR 2 CONCRETE MEDIAN BARRIER ENDS CONDITION NO. 2
- ⑩ 50% OF TOTAL LIN. FEET OF ALL INSTALLED PIPES, REGARDLESS OF MATERIAL TYPE (SEE SUPPLEMENTAL SPECIFICATIONS)
- ⑪ SALVAGE EXISTING MATERIAL AS PER SECTION 719.03.07, EXCEPT THAT THE CONTRACTOR SHALL DELIVER EXISTING SALVAGED GUARDRAIL SYSTEM MATERIALS TO THE CENTRAL SIGN SHOP AND RECYCLE CENTER AT 1224 WILKINSON BLVD IN FRANKFORT, KY. CONTACT SECTION SUPERVISOR AT (502) 564-8187 TO SCHEDULE THE DELIVERY OF MATERIAL.
- ⑫ STA. 448+82.87 TO STA. 450+45.80 (EXISTING BRIDGE OVER BYPASS)
- ⑬ STA. 455+61.96 (EXISTING CULVERT AT SHAW CREEK)
- ⑭ INCLUDES ALL 8" PERF. PIPE AS SHOWN ON PLANS
- ⑮ STANDARD HEADER CURB TO BE USED WITH ASPHALT ALTERNATE. FOR CONCRETE ALTERNATE USED STANDARD HEADER CURB MODIFIED (BID ITEM 1876).
- ⑯ ISLAND HEADER CURB TYPE 1 TO BE USED WITH ASPHALT ALTERNATE. FOR CONCRETE ALTERNATE USED ISLAND HEADER CURB TYPE 1 MODIFIED (BID ITEM 1890).
- ⑰ BID ITEM APPLICATION IS FOR CONCRETE MEDIAN & ISLANDS (6" DEPTH)
- ⑱ FOR MAINTENANCE OF TRAFFIC. WILL BE PLACED TO SEPARATE TRAFFIC IN ACCORDANCE WITH MUTCD GUIDELINES (SPACING 1 X SPEED LIMIT IN CROSSOVER AREAS (45 FEET) AND SPACING 2 X SPEED LIMIT IN CONSTRUCTION AREAS (90 FEET).

FOR PAVING QUANTITIES -
SEE PAVING SUMMARY SHEET

FOR DRAINAGE QUANTITIES -
SEE DRAINAGE SUMMARY SHEETS

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	04-8103.10	R2BB

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

ITEM	DESCRIPTION	UNIT	E2RC MAINLINE	RAMPS	US 31W BYPASS	APPR. 432+15.27 HILL STREET	APPR. 436+57.15 OAK STREET	APPR. 440+18.67 WESTPORT ROAD	APPR. JOHNSTOWN ROAD	FRONTAGE ROAD CONNECTOR 1	FRONTAGE ROAD 1	RINEYVILLE RD.	TIMBER LANE	FRONTAGE RD. 2	FRONTAGE RD. 3	RING ROAD & RALPH FRANKLIN ROAD CONNECTOR	FONTAINE-SANTANA & SV CONNECTOR	FRONTAGE RD. 4 & ROBBIN-BROOKE	HUTCHERSON LANE	FRONTAGE ROAD 5	KY 1600 & RD D & E	ENTRANCES	PROJECT TOTALS
78	CRUSHED AGGREGATE SIZE NO. 2	TON	54		64							2	2		1		2	1	1	1			128
1000	PERFORATED PIPE - 4 INCH	LIN FT	24,232		12,980							48	91		36		85	167	82	9			37,730
1010	NON-PERFORATED PIPE - 4 INCH	LIN FT	1,583		1,560							16	16		8		16	24	8	8			3,239
1015	INSPECT & CERTIFY EDGE DRAIN SYSTEM (14)	LS			1																		1
1020	PERFORATED PIPE HEADWALL TYPE 1 - 4 INCH	EACH	5																				5
1024	PERFORATED PIPE HEADWALL TYPE 2 - 4 INCH	EACH	2																		1		3
1028	PERFORATED PIPE HEADWALL TYPE 3 - 4 INCH	EACH	26		46							2	1		1		2		1				79
1032	PERFORATED PIPE HEADWALL TYPE 4 - 4 INCH	EACH	21		18								1					1					41
1073	STEEL ENCASMENT PIPE - 16 IN	LIN FT	170																				170
1740	CORED HOLE DRAINAGE BOX CON-4 IN	EACH	13																				13
1786	FILL AND CAP MANHOLE	EACH	1						3														4
1791	ADJUST MANHOLE TO GRADE	EACH	4						2														6
1810	STANDARD CURB AND GUTTER	LIN FT	3,322													1,934	1,710						6,966
1875	STANDARD HEADER CURB (15)	LIN FT			585																		585
1890	ISLAND HEADER CURB TYPE 1 (16)	LIN FT			667																		667
1982	DELINEATOR FOR GUARDRAIL - WHITE	EACH	20	26	3				8	1											6		64
1983	DELINEATOR FOR GUARDRAIL - YELLOW	EACH		36																			36
1985	DELINEATOR FOR BARRIER - YELLOW	EACH			66																		66
2001	CURB TO BARRIER WALL TRANSITION (MODIFIED)	EACH			1																		1
2003	RELOCATE TEMPORARY CONC BARRIER WALL (5)	LIN FT			2800																		2800
2009	REMOVE ASPHALT MEDIAN	SQ YD			486																		486
2014	BARRICADE - TYPE III (5)	EACH			3																		3
2058	REMOVE PCC PAVEMENT	SQ YD			4,895																		4,895
2091	REMOVE PAVEMENT	SQ YD							427			4,777				45							5,249
2159	TEMPORARY DITCH (2)	LIN FT	12,817	5,292	6,626	76	100	100	900	160	888	2,759	813	616	339	1,525	1,266	2,006	1,383	1,238	871		39,775
2160	CLEAN TEMPORARY DITCHES (2)	LIN FT	12,817	5,292	6,626	76	100	100	900	160	888	2,759	813	616	339	1,525	1,266	2,006	1,383	1,238	871		39,775
2200	ROADWAY EXCAVATION	CU YD	450,144																				450,144
2203	STRUCTURE EXCAVATION - UNCLASSIFIED	CU YD														55							55
2237	DITCHING	LIN FT			13,252																		13,252
2242	WATER (3)	MGAL	5.1	2.3	2.7				0.4	0.1	0.4	1.1	0.3	0.2	0.4	0.6	0.5	0.7	0.6	0.4	0.3		16.1
2262	R/W FENCE-WOVEN WIRE TYPE 1	LIN FT	13,023		2,977				210												572		16,782
2351	GUARDRAIL - STEEL *W* BEAM - S FACE	LIN FT	1,702	4,050	213				694	31		25				13					309		7,037
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	2						2		2					2					1		9
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH		4																			4
2367	GUARDRAIL END TREATMENT TYPE 1	EACH		1	1																1		3
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH		4																			4
2371	GUARDRAIL END TREATMENT TYPE 7	EACH								1													1
2371	GUARDRAIL END TREATMENT TYPE 7 (5)	EACH	2																				2
2381	REMOVE GUARDRAIL (11)	LIN FT	2,076		9,737																		11,813
2383	REMOVE & RESET GUARDRAIL (5)	LIN FT	800																				800
2387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	EACH		2																			2
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH	2						1														3
2397	TEMPORARY GUARDRAIL (5)	LIN FT	800																				800
2429	RIGHT-OF-WAY MONUMENT TYPE 1	EACH	52						10		16	3	3	2	6	6	5	12	9	5			129
2432	WITNESS POST (4)	EACH	13						2		4	1	1		2	2	1	3	2	1			32
2471	FILL AND CAP SINKHOLE	EACH	6																				6
2483	CHANNEL LINING CLASS II	TON	614	72	180				236		26						39				10		1,177
2484	CHANNEL LINING CLASS III	TON	907	481	52				53											25			1,518
2545	CLEARING & GRUBBING (1)	LS	1																				1
2555	CONCRETE-CLASS B	CU YD														26.7							26.7
2562	SIGNS (5)	SQ FT	118		429	13.5	22.5	22.5	40.5		27	60.5				204	58.5	50.5	121		93		1,261
2568	MOBILIZATION	LS	1																				1
2569	DEMOBILIZATION	LS	1																				1
2585	EDGE KEY	LIN FT	30		72	21	24	24	24			47	26			188	88	20	39	15	22		640

NOTES: EARTHWORK CALCULATIONS

EXCAVATION		
303,901	COM	MAINLINE E2RC
31,272	COM	RAMPS
11,389	COM	US 31W BYPASS
12	COM	APPR. 432+15.27
3	COM	APPR. 440+18.67
333	COM	APPR. JOHNSTOWN ROAD
2,541	COM	FRONTAGE ROAD 1
16,710	COM	RINEYVILLE ROAD
12,741	COM	TIMBER LANE
1,754	COM	FRONTAGE ROAD 2
121	COM	FRONTAGE ROAD 3
2,070	COM	RING ROAD
304	COM	FRANKLIN CONNECTOR
2,887	COM	FONTANE-SANTANA DRIVE
726	COM	SEVERNS VALLEY CONN.
1,402	COM	FRONTAGE ROAD 4
4,382	COM	ROBBIN-BROOKE ROAD
3,382	COM	HUTCHERSON LANE
3,498	COM	FRONTAGE ROAD 5
11,339	COM	KY 1600
1	COM	ROAD "D" & "E"
678	COM	SOLID ROCK
3,313	COM	DITCH EXCAVATION
2,726	COM	EMBANKMENT BENCHING
32,659	COM	TRANSVERSE BENCHING
450,144	TOTAL	EXCAVATION

EMBANKMENT		
204,197	EMB	MAINLINE E2RC
118,091	EMB	RAMPS
5,650	EMB	US 31W BYPASS
2	EMB	APPR. 432+15.27
1,213	EMB	APPR. 436+57.15
92	EMB	APPR. 440+18.67
29,040	EMB	APPR. JOHNSTOWN ROAD
3,392	EMB	FRONTAGE ROAD 1 CONNECTOR
1,392	EMB	FRONTAGE ROAD 1
1,746	EMB	RINEYVILLE ROAD
24	EMB	TIMBER LANE
6	EMB	FRONTAGE ROAD 2
2,385	EMB	FRONTAGE ROAD 3
949	EMB	RING ROAD
43	EMB	FRANKLIN CONNECTOR
3,343	EMB	FONTANE-SANTANA DRIVE
5	EMB	SEVERNS VALLEY CONN.
183	EMB	FRONTAGE ROAD 4
740	EMB	ROBBIN-BROOKE ROAD
1,082	EMB	HUTCHERSON LANE
600	EMB	FRONTAGE ROAD 5
1,139	EMB	KY 1600
1,008	EMB	ROAD "D" & "E"
376,322	TOTAL	EMBANKMENT

- (1) APPROXIMATELY 67.57 ACRES (REMOVAL OF EXISTING PIPE IS INCIDENTAL TO CLEARING AND GRUBBING)
- (2) ESTIMATED QUANTITY FROM EROSION CONTROL PLANS

FOR PAVING QUANTITIES -
SEE PAVING SUMMARY SHEET

FOR DRAINAGE QUANTITIES -
SEE DRAINAGE SUMMARY SHEETS

MAINTENANCE OF TRAFFIC NOTES

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ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT STANDARD DRAWINGS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REMOVAL OF PAVEMENT MARKINGS

PAVEMENT MARKINGS SHALL BE REMOVED BY EITHER AN ABRASIVE OR BURNING PROCESS TO THE SATISFACTION OF THE ENGINEER. IF THE ABRASIVE METHOD IS USED, THE AREA AFFECTED IS TO BE COATED WITH BLACK (OR MORE PRECISELY, A COLOR SIMILAR TO THAT OF THE ADJACENT PAVEMENT SURFACE) TRAFFIC PAINT. PAINTING OF EXISTING MARKINGS WITH BITUMINOUS OR OTHER MATERIALS TO OBLITERATE THE MARKINGS SHALL NOT BE ALLOWED.

BLASTING OPERATIONS

DURING BLASTING OPERATIONS, TRAFFIC MAY BE HALTED A MAXIMUM OF 15 MINUTES PER HOUR TO ALLOW THE EXECUTION OF THE "SHOT" AND TO ALLOW FOR REMOVAL OF ROCK FRAGMENTS AND DEBRIS. BLASTING WILL NOT BE PERMITTED BETWEEN THE HOURS OF 6:30 AM AND 9:00AM OR BETWEEN THE HOURS OF 3:30 PM AND 6:00 PM.

THE CONTRACTOR, WHEN USING EXPLOSIVE CHARGES OF ANY KIND FOR THE PURPOSE OF EXCAVATING, REMOVAL, ETC., ON THIS PROJECT SHALL HALT ALL TRAFFIC A SAFE DISTANCE ON EITHER SIDE OF THE IMPENDING EXPLOSION.

THE CONTRACTOR SHALL HAVE SUITABLE EQUIPMENT AT THE SITE AND IN RUNNING MODE FOR THE PURPOSE OF CLEANING THE EXISTING PAVEMENT OF ALL DEBRIS.

AFTER ANY BLAST, THE CONTRACTOR SHALL IMMEDIATELY INSPECT THE PAVEMENT FOR ANY DEBRIS THAT MAY BE A HAZARD TO TRAFFIC BEFORE ALLOWING TRAFFIC TO PROCEED ON THE AFFECTED SECTION.

WHEN BLASTING, THE CONTRACTOR SHALL HALT TRAFFIC, BLAST, CLEAN THE EXISTING PAVEMENTS AND RETURN TRAFFIC TO NORMAL OPERATION IN THE LEAST AMOUNT OF TIME POSSIBLE.

LANE WIDTHS

THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVEL WAY WITH A MINIMUM LANE WIDTH OF 10 FEET. HOWEVER, DURING WORKING HOURS, ONE-LANE TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE TRAFFIC CONTROL IS IN PLACE AT THE LOCATION. TWO-WAY TRAFFIC MUST BE MAINTAINED BETWEEN 6:30-9:30 AM AND 3:30-6:00 PM.

PAVEMENT EDGE DROP-OFFS

A PAVEMENT EDGE THAT TRAFFIC IS EXPECTED TO CROSS IN A LANE CHANGE SITUATION SHALL NOT HAVE AN ELEVATION DIFFERENCE GREATER THAN 1 1/2 INCHES. THIS MAY BE INCREASED TO 2 INCHES FOR LOW SPEED SITUATIONS. WARNING SIGNS SHALL BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA WHEN DROP-OFFS ARE GREATER THAN 1/2 INCH. MODIFICATIONS WILL BE AS DIRECTED BY THE ENGINEER.

PAVEMENT EDGES THAT TRAFFIC IS NOT EXPECTED TO CROSS, SHALL BE TREATED AS FOLLOWS; OR, AS DIRECTED BY THE ENGINEER:

LESS THAN 1/2 INCH - NO PROTECTION REQUIRED.

1/2 TO 2 INCHES - WARNING SIGNS SHALL BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

2 TO 4 INCHES - PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES SHALL BE PLACED EVERY 50 FEET FOR SPEEDS LESS THAN 50 MILES PER HOUR AND EVERY 100 FEET FOR SPEEDS OF 50 MILES PER HOUR AND GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, VERTICAL PANELS, AND BARRICADES DURING DAYLIGHT HOURS. SPACING FOR TAPERS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

4 INCHES AND GREATER - POSITIVE SEPARATION NEEDED OR WEDGE WITH 3:1 OR FLATTER SLOPE. IF THERE IS 8 FEET OR MORE DISTANCE BETWEEN THE EDGE OF PAVEMENT AND DROP-OFF, PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES MAY BE USED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHALL BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS 4 INCHES AND GREATER MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

PAYMENT WILL BE ALLOWED FOR DGA MATERIAL USED FOR WEDGING.

PROJECT PHASING

NORMAL CONSIDERATION SHOULD BE GIVEN TO PROPERTY OWNERS FOR THEIR ACCESS.

CONSTRUCT EROSION CONTROLS AT POINTS WHERE RUNOFF LEAVES THE PROJECT SITE.

BEGIN EARTHWORK, UTILIZING TEMPORARY DIVERSION DITCHES TO DIRECT RUNOFF TO EROSION CONTROLS. REPAIR AND/OR UPGRADE PAVEMENT ALONG AND ACROSS EXISTING ROADS WHERE CONSTRUCTION TRAFFIC CROSSES.

ACCESS TO ALL PUBLIC ROADS TO BE MAINTAINED EXCEPT AS INDICATED IN THE MAINTENANCE OF TRAFFIC NOTES

TUBULAR MARKERS WILL BE PLACED TO SEPARATE TRAFFIC IN ACCORDANCE WITH MUTCD GUIDELINES (SPACING 1* SPEED LIMIT IN CROSSOVER AREAS (45 FEET) AND SPACING OF 2* SPEED LIMIT IN CONSTRUCTION AREAS (90 FEET)) FOR MOT PHASES 2 AND 3 ON THE US 31W BYPASS.

PAVING ALTERNATIVE

THESE MAINTENANCE OF TRAFFIC PLANS WERE DEVELOPED FOR THE ASPHALT PAVING ALTERNATIVE. THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL PLANS, PHASING, SIGNING, AND NOTES FOR CONCRETE PAVING, SHOULD THAT ALTERNATIVE BE CHOSEN. THOSE PLANS WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE CABINET BEFORE CONSTRUCTION BEGINS.

TRAFFIC CONTROL COORDINATOR

THE CONTRACTOR SHALL SUPPLY A TRAFFIC CONTROL COORDINATOR TO MONITOR TRAFFIC CONTROL DEVICES 24 HOURS A DAY THROUGHOUT THE DURATION OF THE PROJECT. THE TRAFFIC CONTROL COORDINATOR SHALL BE EQUIPPED WITH A TRUCK, CELLULAR PHONE, FIVE (5) GALLONS OF GAS, AND JUMPER CABLES TO ASSIST THE TRAVELING PUBLIC AND TO KEEP THE TRAFFIC LANES OPEN AT ALL TIMES. THE TRAFFIC CONTROL COORDINATOR SHALL NOT BE USED FOR ANY OTHER OPERATION ON THE PROJECT NOT RELATING TO TRAFFIC CONTROL AND/OR OPERATIONS THAT WILL PREVENT THE COORDINATOR FROM MONITORING THE TRAFFIC CONTROL DEVICES ON THE ENTIRE PROJECT FOR A PERIOD LONGER THAN ONE HOUR. THE TRAFFIC CONTROL COORDINATOR SHALL BE PAID FOR AT THE LUMP SUM BID FOR MAINTENANCE OF TRAFFIC.

PHASE 1

MAINTAIN TRAFFIC PHASE 1

PHASE 1 IS TO BE ACCOMPLISHED WHILE MAINTAINING TRAFFIC ON EXISTING ROADS. SHIFT US 31W BYPASS TRAFFIC ONTO OUTSIDE NB AND SB LANES. INSTALL TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS FOR BRIDGE PIER CONSTRUCTION.

CONSTRUCTION PHASE 1

FROM STA. 430+07 TO 445+00 CONSTRUCT STORM SEWER THROUGH BOTTOM PHASE OF INLETS. CONSTRUCT CROSS PIPES 432+15, 437+35 AND 438+00 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL, AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.

RIGHT STA. 435+00 TO 444+00 CONSTRUCT TEMPORARY PAVEMENT WIDENING.

FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

FROM STA. 451+50 TO 458+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO EXISTING GRADE (TEMPORARY PAVEMENT).

FROM STA. 473+35 TO 475+50, 494+50 TO RING ROAD, RING ROAD TO 507+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. STA. 475+50 TO 494+50, 508+00 TO 514+25, 515+25 TO 520+00, CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 520+00 TO 535+83, STA. 536+15 TO 549+00 AND STA. 552+00 TO END CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 551+00 TO 552+00, CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

FROM STA. 462+00 TO 476+00 +/- CONSTRUCT TEMPORARY PAVEMENT WIDENING. CONSTRUCT TEMPORARY PIPES AND JUNCTION BOX AND/OR EXTEND PIPES TO ALLOW DRAINAGE UNDER TIMBER LN. AND EX. RINEYVILLE RD. TEMPORARY PAVEMENT.

INSTALL TEMPORARY GUADRAIL AND TEMPORARY CONCRETE MEDIAN BARRIER TYPE 9T STA 451+50 TO STA 460+00.

CONSTRUCT PART WIDTH KY 1600 BRIDGE (LEFT OF KY 1600 CL) OVER US 31W BYPASS.

CONSTRUCT DOUBLE 12' X 9' CULVERT ON SHAW CREEK (LEFT OF CENTERLINE).

EXTEND CROSS PIPE STA. 453+78.28 (LEFT OF CENTERLINE).

CONSTRUCT CROSS PIPES AT STA. 486+00, 503+00 (TO APPROX. 35' RT), AND 517+32.

CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 488+25, 500+93 AND 511+42.

CONSTRUCT CROSS PIPE AT STA. 534+33.1 AND MEDIAN INLETS AND PIPES AT STA. 524+50, 533+43, 536+62, 545+00 AND 555+00.

BEGIN CONSTRUCTING PORTIONS OF RAMPS C, C2, D, D2 AND RETAINING WALLS WHILE MAINTAINING TRAFFIC ON EXISTING ROADS. CONSTRUCT PIPES (RAMP C2) STA 6001+08 AND 6001+69, (RAMP D) STA 1701+75.85, AND (RAMP D2) STA 7000+65.05.

CONSTRUCT DBI (BYPASS) STA 190+50 AND 189+43 AND OUTLET AT 189+43.

REMOVE BOTH ISLANDS AT US 31W AND US 31W BYPASS INTERSECTION. PAVE AREA FLUSH WITH ROADWAY.

REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. REMOVE EXISTING MEDIAN GUADRAIL AND MEDIAN BOXES.

CONSTRUCT JOHNSTOWN ROAD APPROACH TO TOP OF BASE COURSE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD STA 41+20.

CONSTRUCT JOHNSTOWN ROAD ENTRANCE 44+50 ENTRANCE PIPE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD (RELOCATED) STA 43+72.

CONSTRUCT FRONTAGE ROAD 1 CONNECTOR AND FRONTAGE ROAD 1 TO TOP OF BASE COURSE. CONSTRUCT PIPES AT FRONTAGE ROAD 1 CONNECTOR STA. 39+00 AND FRONTAGE ROAD 1 STA. 12+00.

CONSTRUCT PORTIONS OF RINEYVILLE ROAD TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROADS. CONSTRUCT ALL CROSS PIPES AND ENTRANCE PIPES.

MAINTAIN ACCESS TO TIMBER LANE AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT TEMPORARY PAVEMENT RIGHT OF EX. TIMBER LANE STA. 49+21 TO 50+07. SHIFT TIMBER LANE TRAFFIC TO SOUTH AND CONSTRUCT TEMPORARY PAVEMENT LEFT OF EX. TIMBER LANE STA. 43+39 TO EX. RINEYVILLE RD. CONSTRUCT TEMPORARY PIPE APPROX. 72' LEFT OF MAINLINE.

CONSTRUCT FRONTAGE ROAD NO. 2 FROM APPROX. STA 50+92 TO END TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCT FRONTAGE ROAD NO. 3 TO TOP OF BASE COURSE AND ALL CROSS PIPES. MAINTAIN ACCESS TO PROPERTY AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND CURB BOX INLETS ON RIGHT SIDE OF RING ROAD FROM BEGINNING TO MAINLINE.

CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND CURB BOX INLETS ON LEFT SIDE OF RING ROAD FROM MAINLINE TO END.

CONSTRUCT RALPH FRANKLIN ROAD CONNECTOR TO TOP OF BASE COURSE AND ENTRANCE PIPE.

CONSTRUCT PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROADS. CONSTRUCT ENTRANCE PIPE LT. STA. 5+21, CROSS PIPES STA 5+90 (TO APPROX. 14' RT.) AND STA. 12+75 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT.

CONSTRUCT FRONTAGE ROAD 4 TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT CROSS PIPE ON FRONTAGE ROAD.

CONSTRUCT PORTIONS OF ROBBIN-BROOKE ROAD THAT DO NOT DISTURB EXISTING ROADS TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE LEFT OF MAINLINE AND DROP BOX INLETS AND STORM SEWER RIGHT OF MAINLINE.

MAINTAIN ACCESS TO HUTCHERSON LANE AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT PORTIONS OF HUTCHERSON LANE RIGHT OF CENTERLINE THAT DO NOT DISTURB EXISTING ROAD TO TOP OF BASE COURSE. CONSTRUCT TEMPORARY PAVEMENT FROM STA. 45+60 TO MAINLINE AND FROM MAINLINE TO STA. 52+85. CONSTRUCT CROSS PIPE AT STA. 49+24 AND DRAINAGE SYSTEM AT STA. 51+32.6 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT.

ELIZABETHTOWN TO RADCLIFF CONNECTOR
MAINTENANCE OF TRAFFIC
NOTES

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

USER: PEC_ashley-m

DATE: 8/12/2011

FILE NAME: R09200MT.dgn

E-SHEET NAME: R09200MT.dgn

8/12/2011

MAINTENANCE OF TRAFFIC NOTES

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R92A

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

CONSTRUCT PORTIONS OF FRONTAGE ROAD 5, INCLUDING ROAD *E* INTERSECTION, THAT DO NOT DISTURB EXISTING ROADS TO TOP OF BASE COURSE. MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION. CONSTRUCT CROSS PIPES AT STA. 39+75 AND 44+00. CONSTRUCT PIPE RT. STA. 41+78 TO 42+54.

MAINTAIN ACCESS TO KY1600 AT ALL TIMES DURING CONSTRUCTION. FROM STA. 47+50 TO MAINLINE CONSTRUCT FULL WIDTH ROADWAY. FROM BEGIN TO STA. 47+50 CONSTRUCT PORTIONS OF KY1600 LEFT OF CENTERLINE THAT DO NOT DISTURB EXISTING ROAD TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 49+29.

PHASE 2

PRECONDITIONS TO BEGIN PHASE 2
 PHASE 2 CAN BEGIN AFTER COMPLETION OF KY 1600 STORM SEWER FROM STA 430+07 TO 444+50, PAVEMENT WIDENING BETWEEN 435+00 TO 444+00, TEMPORARY PAVEMENT RIGHT OF RINEYVILLE ROAD AND LEFT OF TIMBER LANE, COMPLETION OF PHASE 1 CONSTRUCTION ON RALPH FRANKLIN ROAD CONNECTOR AND FONTAINE DRIVE - SANTANA DRIVE, COMPLETION OF TEMPORARY PAVEMENT RIGHT OF HUTCHERSON LANE, AND COMPLETION OF PHASE 1 CONSTRUCTION ON PORTIONS OF FRONTAGE ROADS 4 AND 5.
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN NORTHBOUND DIRECTION FOR RCBC AND BRIDGE PIER CONSTRUCTION

MAINTAIN TRAFFIC PHASE 2
 SHIFT KY 1600 TWO LANE TRAFFIC ON RIGHT SIDE USING EXISTING AND TEMPORARY PAVEMENT, EXCEPT FOR INSTALL FLEXIBLE DELINEATOR POSTS ON NB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 SHIFT US 31W BYPASS TRAFFIC ONTO NB LANES (INNER LOOP).
 SHIFT RINEYVILLE ROAD TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT.
 SHIFT TIMBER LANE TRAFFIC LEFT USING TEMPORARY PAVEMENT. MAINTAIN TRAFFIC ON PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE CONSTRUCTED IN PHASE 1.
 SHIFT HUTCHERSON LANE TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT.
 RIGHT STA. BEGIN TO 436+32 KEEP EXISTING SIDEWALK OPEN FOR PEDESTRIANS.

CONSTRUCTION PHASE 2
 FROM STA. BEGIN TO 435+00 CONSTRUCT KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC.
 FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 FROM STA. 462+00 TO 473+35 CONSTRUCT PORTIONS OF LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 507+00 TO 508+00 AND STA. 514+25 TO 515+25 CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 514+25 TO 515+25 CONSTRUCT FULL WIDTH MAINLINE ROADWAY TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 507+69.7.

REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA 176+00 TO STA 235+00.

CONSTRUCT SB US 31W BYPASS LANES TO TOP OF BASE COURSE.

CONSTRUCT BYPASS CULVERTS 183+99, 204+50, AND BYPASS PIPE 190+50 RIGHT OF CENTERLINE.

FROM BEGIN TO STA. 48+50 CONSTRUCT PORTIONS OF TIMBER LANE TO TOP OF BASE COURSE THAT DO NOT DISTURB EXISTING ROAD. FROM STA. 48+50 TO MAINLINE CONSTRUCT FULL WIDTH ROADWAY TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPE AT STA. 49+27.

CONSTRUCT REMAINING PORTIONS OF FONTAINE DRIVE - SANTANA DRIVE TO TOP OF BASE COURSE UNDER TRAFFIC. USE PART WIDTH CONSTRUCTION AS NEEDED. CONSTRUCT ENTRANCE PIPE RT. STA. 5+21 AND CONSTRUCT REMAINING PORTION OF CROSS PIPE RIGHT OF STA. 5+90. FROM LT. STA. 549+00 TO 552+10 CONSTRUCT TEMPORARY PAVEMENT CONNECTING MAINLINE ROADWAY CONSTRUCTED IN PHASE 1 TO EXISTING RINEYVILLE ROAD. FROM BEGIN TO EXISTING RINEYVILLE ROAD AND FROM EXISTING RINEYVILLE ROAD TO END CONSTRUCT REMAINING PORTIONS OF HUTCHERSON LANE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC. USE PART WIDTH CONSTRUCTION AS NEEDED. CONSTRUCT ALL ENTRANCE PIPES.

FROM STA. 43+00 TO 46+52 CONSTRUCT TEMPORARY PAVEMENT RIGHT OF KY1600.

MAINTAIN TRAFFIC PHASE 2A
 STA. 451+50 TO STA. 458+00, SHIFT MAINLINE TRAFFIC TO TEMPORARY PAVEMENT ON LEFT SIDE.

CONSTRUCTION PHASE 2A
 FROM STA. 451+50 TO 458+00 CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO EXISTING GRADE.
 CONSTRUCT DOUBLE 12' X 9' CULVERT SHAW CREEK (RIGHT OF CENTERLINE).
 EXTEND CROSS PIPE STA. 453+78+.28 (RIGHT OF CENTERLINE).

CONSTRUCT RAMPS A STA 1400+00 TO 1406+00 AND RAMP A2. CONSTRUCT CROSS PIPE STA. 4002+33 (RAMP A2).

MAINTAIN TRAFFIC PHASE 2B
 STA. 451+50 TO STA. 458+00, SHIFT MAINLINE ROADWAY TO EXISTING PAVEMENT.

CONSTRUCTION PHASE 2B
 FROM STA. 451+50 TO 458+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

PHASE 3

PRECONDITIONS TO BEGIN PHASE 3
 PHASE 3 CAN BEGIN AFTER COMPLETION OF ALL PHASE 2 CONSTRUCTION ITEMS.

MAINTAIN TRAFFIC PHASE 3
 SHIFT KY 1600 TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED ROADWAY.
 INSTALL FLEXIBLE DELINEATOR POSTS ON SB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN SOUTHBOUND DIRECTION FOR RCBC AND BRIDGE PIER CONSTRUCTION
 SHIFT US 31W BYPASS TRAFFIC ON SB LANES (OUTER LOOP).
 SHIFT EXISTING RINEYVILLE ROAD TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY.
 MAINTAIN KY 1600 PEDESTRIAN TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED SIDEWALK.

CONSTRUCTION PHASE 3
 FROM STA. 435+00 TO RING ROAD AND FROM RING ROAD TO STA. 507+00 FINISH CONSTRUCTION OF REMAINING MAINLINE ROADWAY TO TOP OF BASE COURSE.
 CONSTRUCT REMAINING CROSS PIPES STA 437+35, 447+00, AND 458+78. CONSTRUCT ENTRANCE PIPES AT ENTRANCE STA 435+23, 439+71, 440+76, AND 441+31. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.

CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 462+00 AND 473+40 AND CONSTRUCT REMAINING PORTION OF CROSS PIPE AT RT. STA. 503+00.

CONSTRUCT RAMP B AND COMPLETE CONSTRUCTION OF RAMPS A AND C. CONSTRUCT CROSS PIPES (RAMP A) STA 1406+86.66.

REMOVE EXISTING PAVEMENT MARKERS ALONG NB US31W BYPASS. CONSTRUCT NB US 31W BYPASS LANES TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPES (STA 190+50, 192+50, 197+50, 202+50, 207+50, AND 212+50.)

FINISH CONSTRUCTION OF BYPASS CULVERTS 183+99 AND 204+50.

FINISH CONSTRUCTION OF ALL APPROACHES UNDER TRAFFIC. CONSTRUCT CROSS PIPE APPROACH RT. 436+49.19 STA. 20+72 AND ENTRANCE PIPE ON FRONTAGE ROAD 2 AT STA. 50+24.39. CONSTRUCT CURB AND GUTTER, PAVEMENT WIDENING TO TOP OF BASE COURSE AND FLUME INLET ON RIGHT SIDE OF RING ROAD FROM MAINLINE TO END.

PRECONDITIONS TO BEGIN PHASE 3A
 PHASE 3A CAN BEGIN AFTER COMPLETION OF TEMPORARY PAVEMENT RIGHT OF KY 1600 AND LEFT OF MAINLINE TO EXISTING RINEYVILLE ROAD.

MAINTAIN TRAFFIC PHASE 3a
 SHIFT EXISTING RINEYVILLE ROAD TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY AND TEMPORARY PAVEMENT CONSTRUCTED IN PHASE 2 FROM MAINLINE TO EXISTING RINEYVILLE ROAD. SHIFT KY1600 TRAFFIC RIGHT USING EXISTING AND TEMPORARY PAVEMENT. CLOSE ROBBIN-BROOKE ROAD SOUTH OF STORAGE FACILITY ENTRANCE. DIRECT TRAFFIC TO USE VETERAN'S WAY AS AN ALTERNATE ROUTE.

CONSTRUCTION PHASE 3a
 FROM STA. 549+00 TO 551+00 FINISH CONSTRUCTION OF REMAINING RIGHT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.

CONSTRUCT REMAINING PORTION OF ROBBIN-BROOKE ROAD TO TOP OF BASE COURSE. CONSTRUCT DROP BOX INLETS AND STORM SEWER SYSTEM. FINISH CONSTRUCTION OF HUTCHERSON LANE/EXISTING RINEYVILLE ROAD INTERSECTION TO TOP OF BASE COURSE UNDER TRAFFIC.

MAINTAIN TRAFFIC PHASE 3b
 SHIFT EXISTING TWO LANE TRAFFIC ON RIGHT SIDE USING NEWLY CONSTRUCTED MAINLINE ROADWAY AND NEWLY CONSTRUCTED KY1600 ROADWAY. OPEN ROBBIN-BROOKE ROAD.

CONSTRUCTION PHASE 3b
 FROM STA. 549+00 TO 552+00 FINISH CONSTRUCTION OF REMAINING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. FINISH CONSTRUCTION OF REMAINING PORTIONS OF FRONTAGE ROAD 5 AND ROAD *E* TO TOP OF BASE COURSE.

PHASE 4

CONSTRUCTION PHASE 4
 REMOVE CROSSOVER ON US 31W BYPASS STA 172+00 TO 176+00. PAVE TO FINAL COURSE. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA. 172+00 TO 176+00.

COMPLETE CONSTRUCTION OF FINISHED SLOPES AND APPLY SEEDING AND PROTECTION TO THE PROJECT.

PAVE FINAL SURFACING UNDER TRAFFIC.

USER: PEC ashley-m

DATE: 8/12/2011

FILE NAME: R092A0MT.dgn

E-SHEET NAME:

8/12/2011 R092A0MT.dgn

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 NOTES

COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R93

PHASE 1

MAINTAIN TRAFFIC PHASE 1

PHASE 1 IS TO BE ACCOMPLISHED WHILE MAINTAINING TRAFFIC ON EXISTING ROADS.

SHIFT US 31W BYPASS TRAFFIC ONTO OUTSIDE NB AND SB LANES. (SEE TYPICAL SECTION BELOW)

INSTALL TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS FOR BRIDGE PIER CONSTRUCTION

CONSTRUCTION PHASE 1

FROM STA. 430+07 TO 445+00 CONSTRUCT STORM SEWER THROUGH BOTTOM PHASE OF INLETS. CONSTRUCT CROSS PIPES 432+15, 437+35 AND 438+00 USING PART WIDTH CONSTRUCTION, FLOWABLE FILL, AND BRIDGING PLATES. COVER TRENCHES WITH PLATES WHEN WORKERS NOT PRESENT. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.

RIGHT STA. 435+00 TO 444+00 CONSTRUCT TEMPORARY PAVEMENT WIDENING. FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE. FROM STA. 451+50 TO 458+00, BEGIN CONSTRUCTING LEFT HALF OF MAINLINE ROADWAY TO EXISTING GRADE (TEMPORARY PAVEMENT). INSTALL TEMPORARY GUARDRAIL AND TEMPORARY CONCRETE MEDIAN BARRIER TYPE 9T STA 451+50 TO 460+00. CONSTRUCT PART WIDTH KY 1600 BRIDGE (LEFT OF KY 1600 CL) OVER US 31W BYPASS.

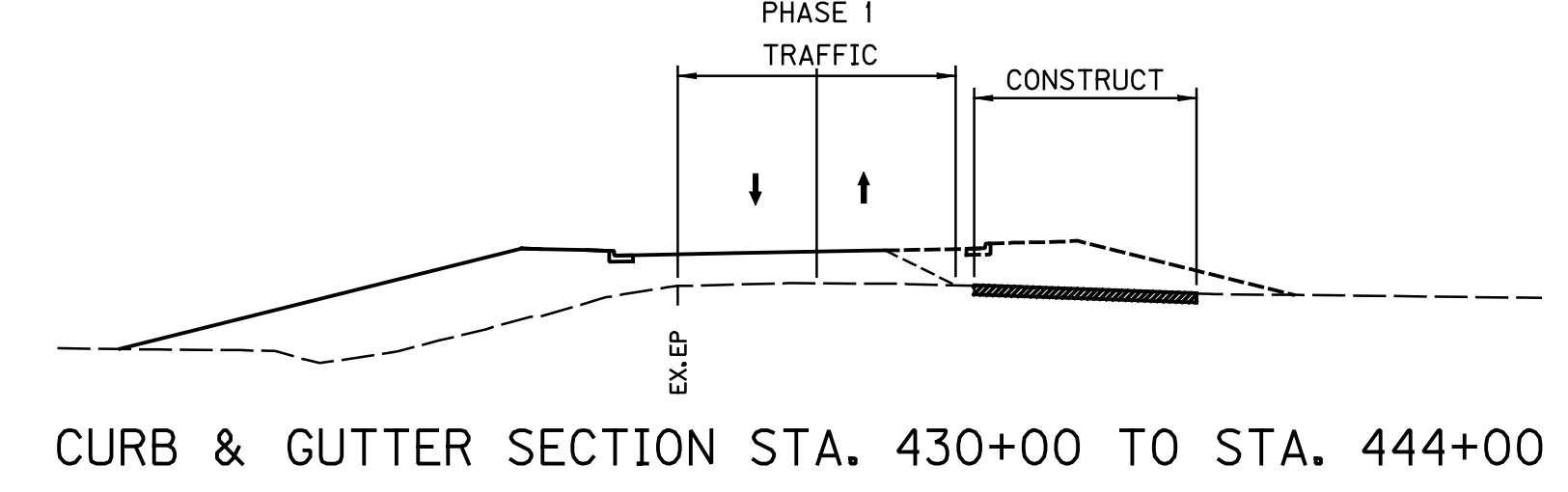
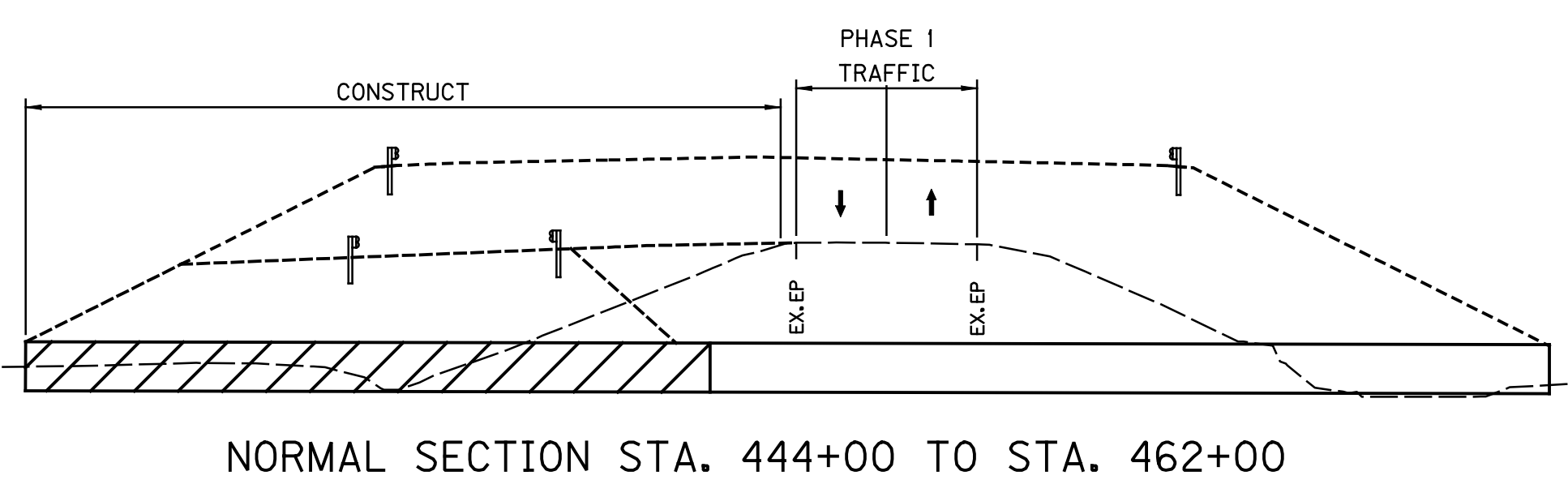
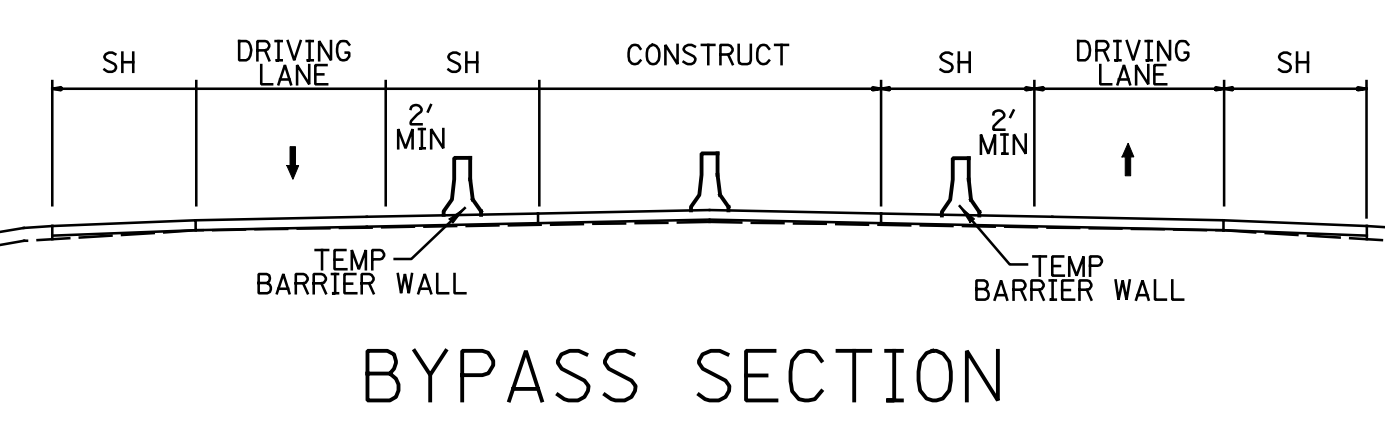
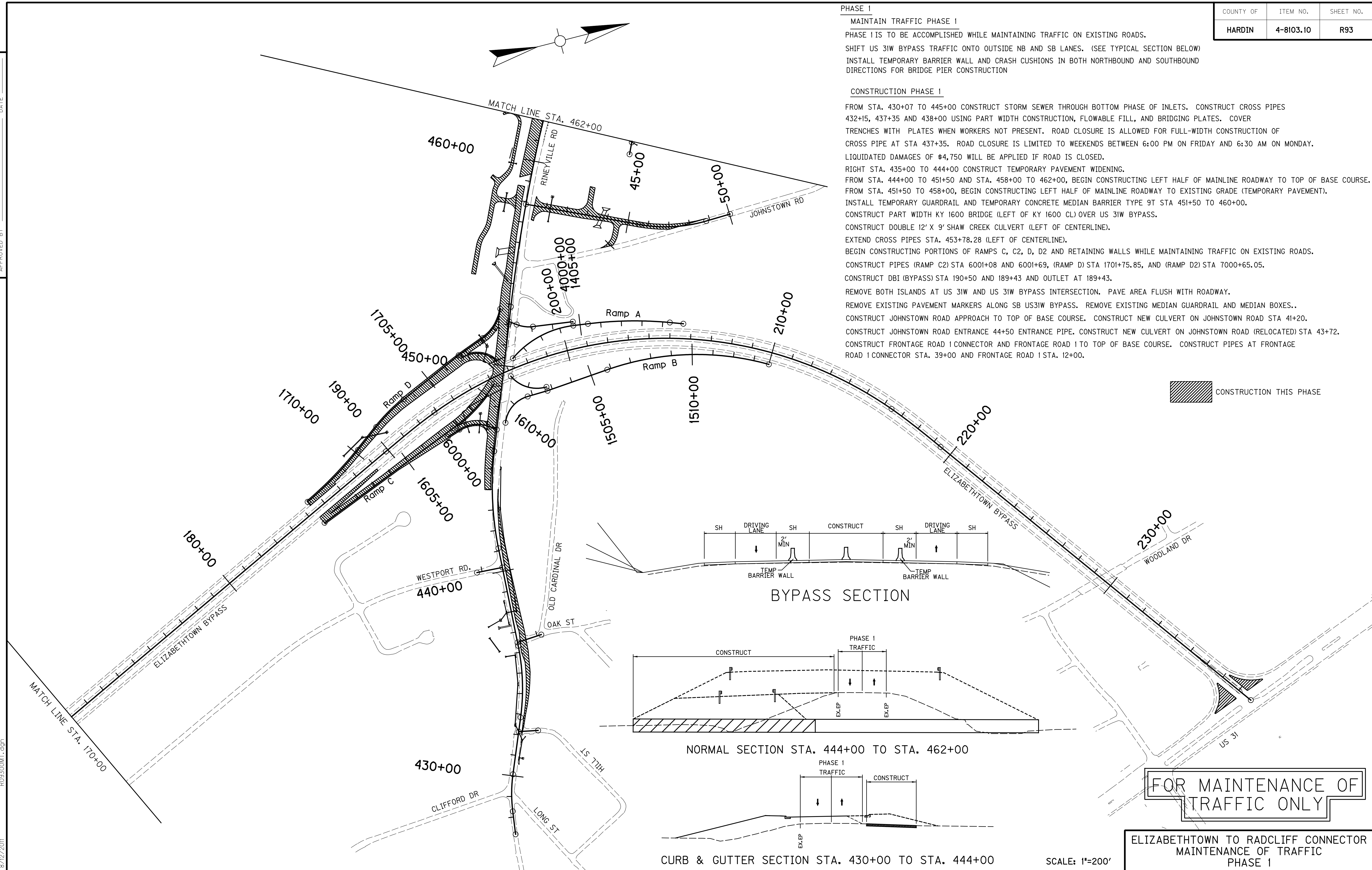
CONSTRUCT DOUBLE 12' X 9' SHAW CREEK CULVERT (LEFT OF CENTERLINE). EXTEND CROSS PIPES STA. 453+78.28 (LEFT OF CENTERLINE). BEGIN CONSTRUCTING PORTIONS OF RAMP C, C2, D, D2 AND RETAINING WALLS WHILE MAINTAINING TRAFFIC ON EXISTING ROADS. CONSTRUCT PIPES (RAMP C2) STA 6001+08 AND 6001+69, (RAMP D) STA 1701+75.85, AND (RAMP D2) STA 7000+65.05. CONSTRUCT DBI (BYPASS) STA 190+50 AND 189+43 AND OUTLET AT 189+43.

REMOVE BOTH ISLANDS AT US 31W AND US 31W BYPASS INTERSECTION. PAVE AREA FLUSH WITH ROADWAY. REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. REMOVE EXISTING MEDIAN GUARDRAIL AND MEDIAN BOXES.. CONSTRUCT JOHNSTOWN ROAD APPROACH TO TOP OF BASE COURSE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD STA 41+20. CONSTRUCT JOHNSTOWN ROAD ENTRANCE 44+50 ENTRANCE PIPE. CONSTRUCT NEW CULVERT ON JOHNSTOWN ROAD (RELOCATED) STA 43+72. CONSTRUCT FRONTAGE ROAD 1 CONNECTOR AND FRONTAGE ROAD 1 TO TOP OF BASE COURSE. CONSTRUCT PIPES AT FRONTAGE ROAD 1 CONNECTOR STA. 39+00 AND FRONTAGE ROAD 1 STA. 12+00.



PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

USER: PEC_ashley-m
 DATE: 8/12/2011
 FILE NAME: R09300MT.dgn
 E-SHEET NAME: R09300MT.dgn
 8/12/2011

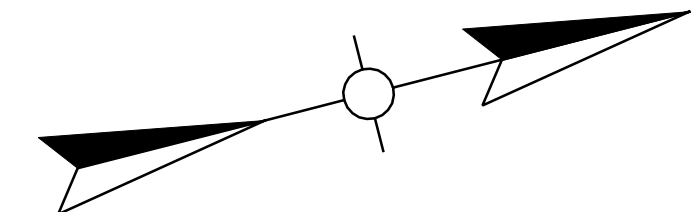


FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR MAINTENANCE OF TRAFFIC PHASE 1

SCALE: 1"=200'

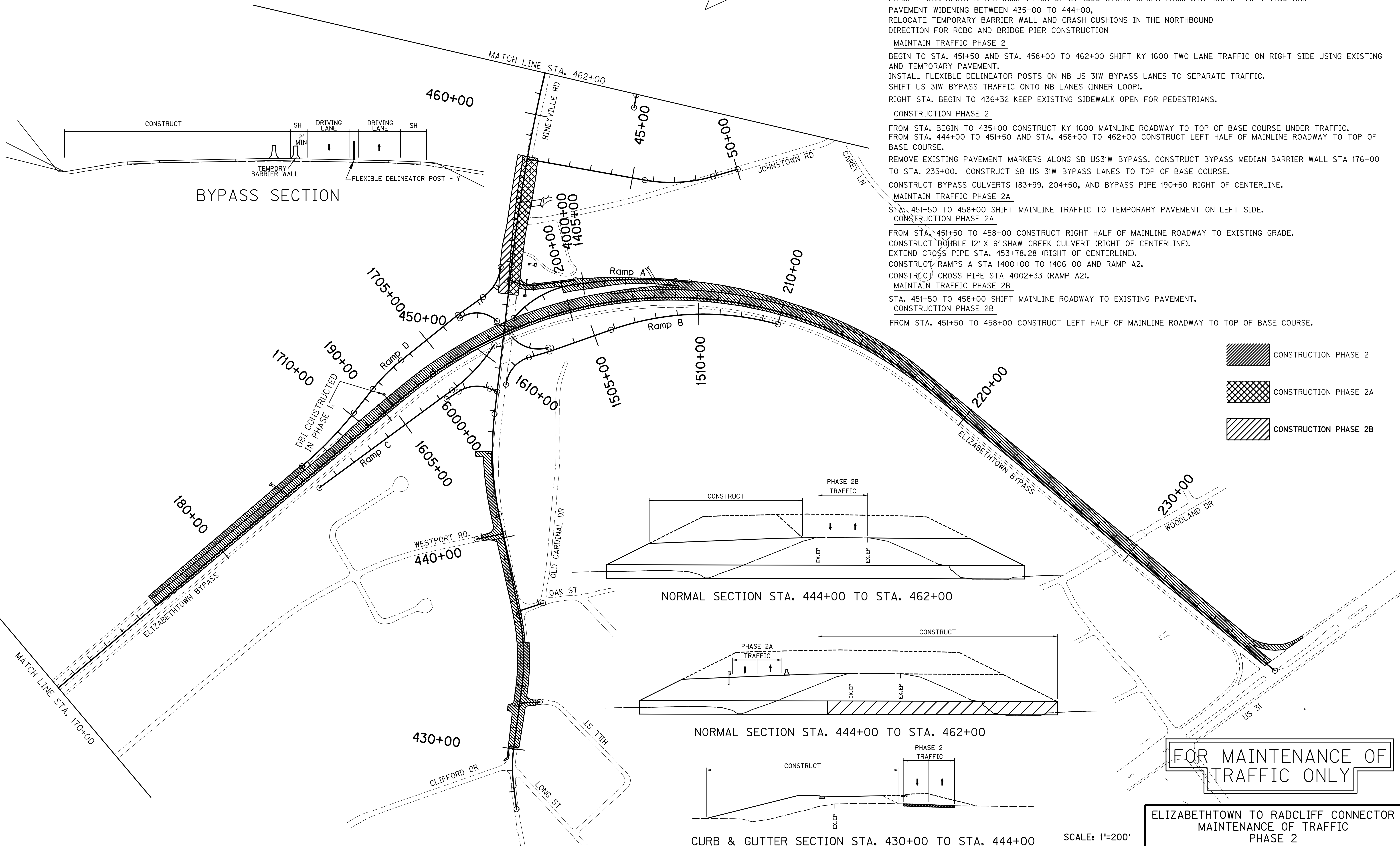
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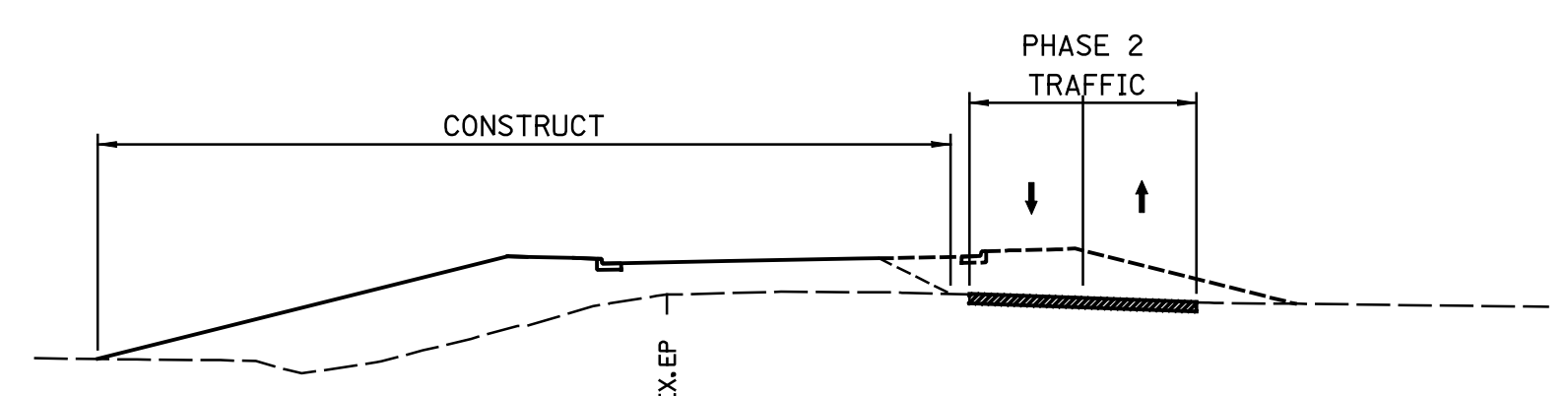
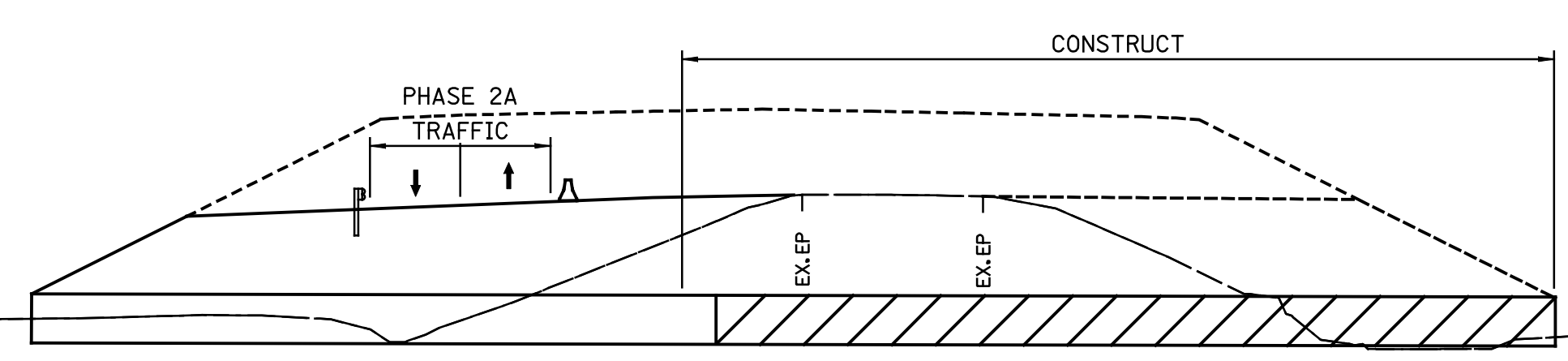
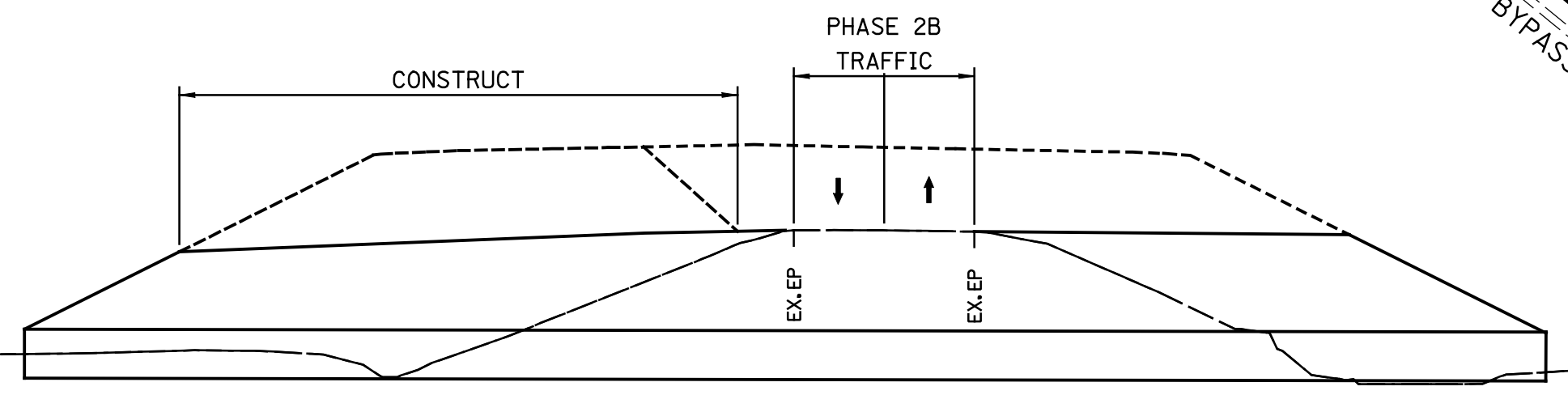
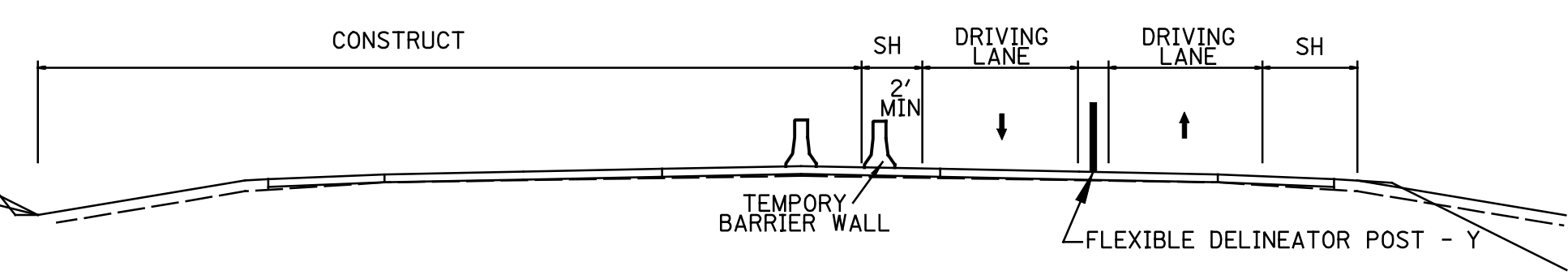
PHASE 2
PRECONDITIONS TO BEGIN PHASE 2
 PHASE 2 CAN BEGIN AFTER COMPLETION OF KY 1600 STORM SEWER FROM STA 430+07 TO 444+50 AND PAVEMENT WIDENING BETWEEN 435+00 TO 444+00, RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN THE NORTHBOUND DIRECTION FOR RBCB AND BRIDGE PIER CONSTRUCTION

MAINTAIN TRAFFIC PHASE 2
 BEGIN TO STA. 451+50 AND STA. 458+00 TO 462+00 SHIFT KY 1600 TWO LANE TRAFFIC ON RIGHT SIDE USING EXISTING AND TEMPORARY PAVEMENT.
 INSTALL FLEXIBLE DELINEATOR POSTS ON NB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 SHIFT US 31W BYPASS TRAFFIC ONTO NB LANES (INNER LOOP).
 RIGHT STA. BEGIN TO 436+32 KEEP EXISTING SIDEWALK OPEN FOR PEDESTRIANS.

CONSTRUCTION PHASE 2
 FROM STA. BEGIN TO 435+00 CONSTRUCT KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE UNDER TRAFFIC.
 FROM STA. 444+00 TO 451+50 AND STA. 458+00 TO 462+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.
 REMOVE EXISTING PAVEMENT MARKERS ALONG SB US31W BYPASS. CONSTRUCT BYPASS MEDIAN BARRIER WALL STA 176+00 TO STA. 235+00. CONSTRUCT SB US 31W BYPASS LANES TO TOP OF BASE COURSE.
 CONSTRUCT BYPASS CULVERTS 183+99, 204+50, AND BYPASS PIPE 190+50 RIGHT OF CENTERLINE.
MAINTAIN TRAFFIC PHASE 2A
 STA. 451+50 TO 458+00 SHIFT MAINLINE TRAFFIC TO TEMPORARY PAVEMENT ON LEFT SIDE.
CONSTRUCTION PHASE 2A
 FROM STA. 451+50 TO 458+00 CONSTRUCT RIGHT HALF OF MAINLINE ROADWAY TO EXISTING GRADE.
 CONSTRUCT DOUBLE 12' X 9' SHAW CREEK CULVERT (RIGHT OF CENTERLINE).
 EXTEND CROSS PIPE STA. 453+78.28 (RIGHT OF CENTERLINE).
 CONSTRUCT RAMP A STA 1400+00 TO 1406+00 AND RAMP A2.
 CONSTRUCT CROSS PIPE STA 4002+33 (RAMP A2).
MAINTAIN TRAFFIC PHASE 2B
 STA. 451+50 TO 458+00 SHIFT MAINLINE ROADWAY TO EXISTING PAVEMENT.
CONSTRUCTION PHASE 2B
 FROM STA. 451+50 TO 458+00 CONSTRUCT LEFT HALF OF MAINLINE ROADWAY TO TOP OF BASE COURSE.



- CONSTRUCTION PHASE 2
- CONSTRUCTION PHASE 2A
- CONSTRUCTION PHASE 2B



FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 PHASE 2

SCALE: 1"=200'

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 DATE: 8/12/2011
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 E-SHEET NAME: R09600MT.dgn
 8/12/2011

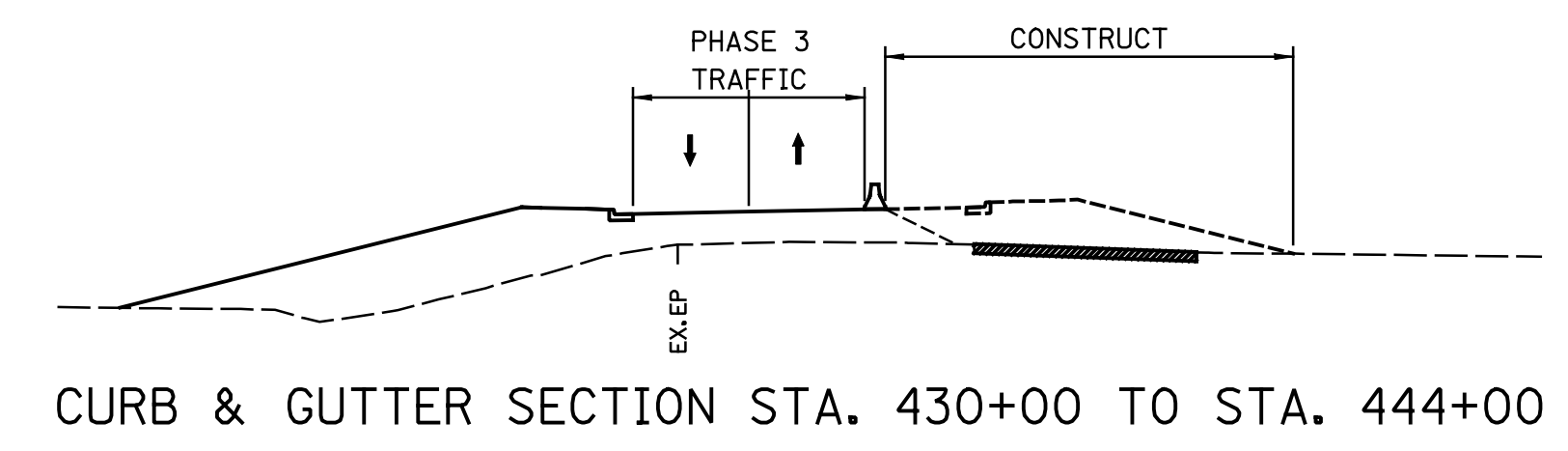
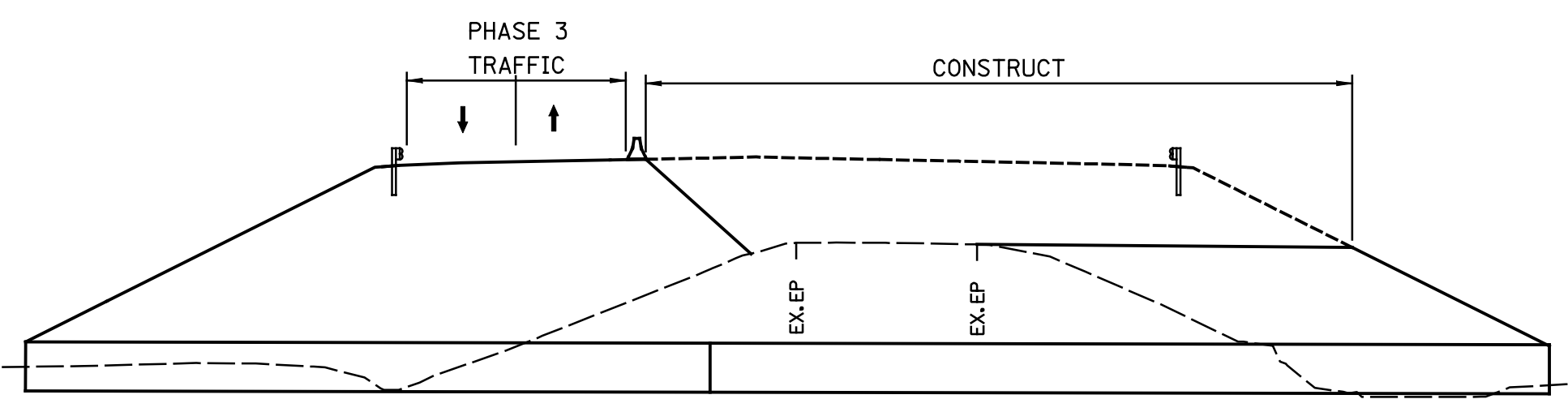
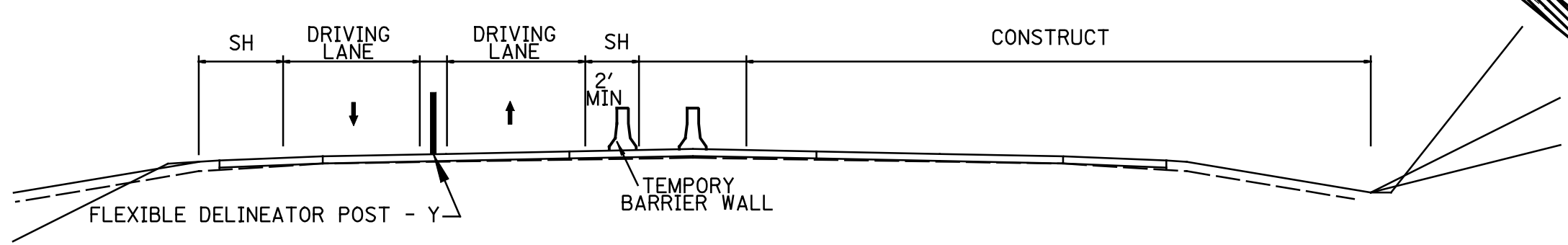
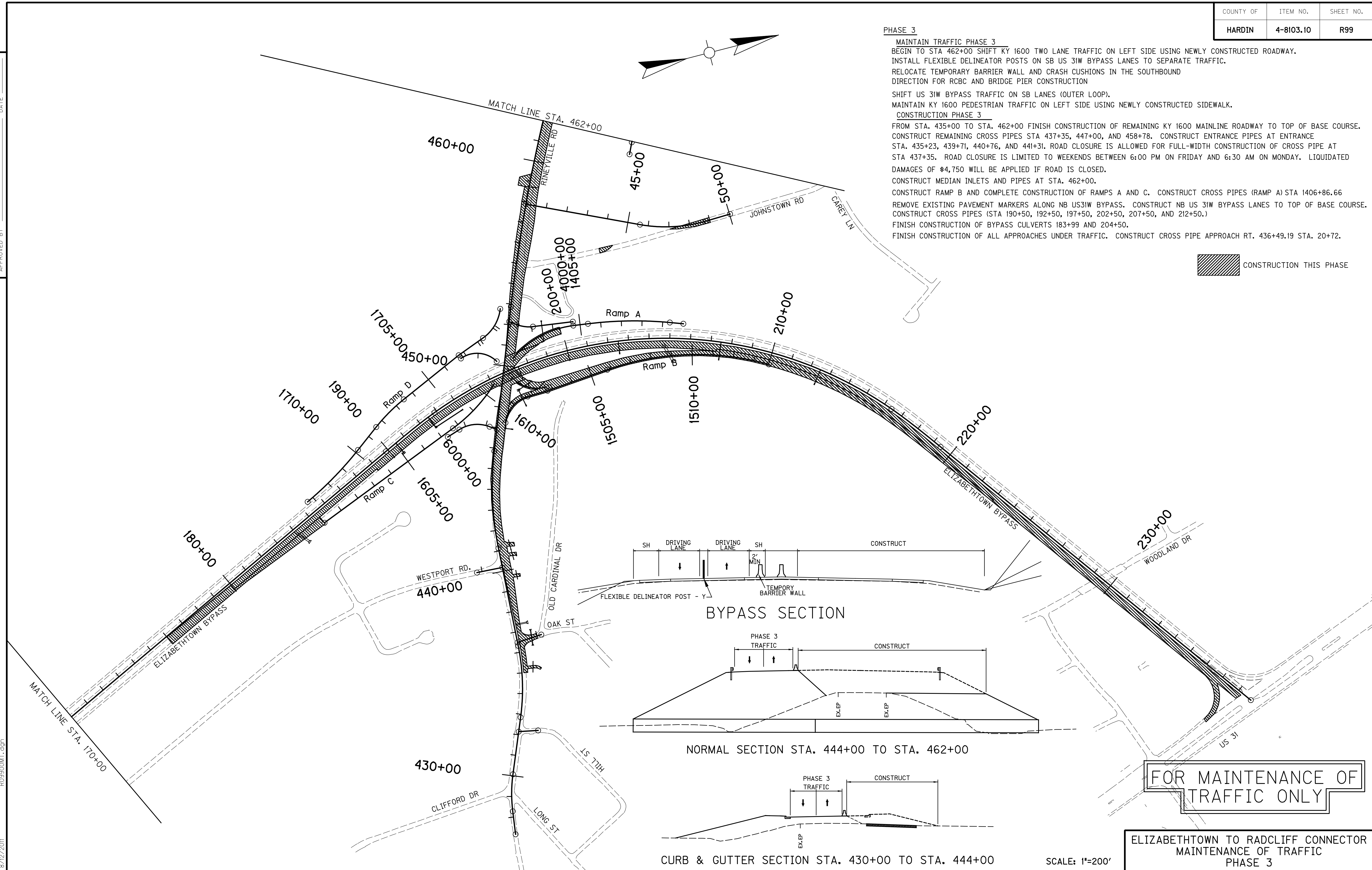
COUNTY OF	ITEM NO.	SHEET NO.
HARDIN	4-8103.10	R99

PHASE 3
MAINTAIN TRAFFIC PHASE 3
 BEGIN TO STA 462+00 SHIFT KY 1600 TWO LANE TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED ROADWAY.
 INSTALL FLEXIBLE DELINEATOR POSTS ON SB US 31W BYPASS LANES TO SEPARATE TRAFFIC.
 RELOCATE TEMPORARY BARRIER WALL AND CRASH CUSHIONS IN THE SOUTHBOUND DIRECTION FOR RCBC AND BRIDGE PIER CONSTRUCTION
 SHIFT US 31W BYPASS TRAFFIC ON SB LANES (OUTER LOOP).
 MAINTAIN KY 1600 PEDESTRIAN TRAFFIC ON LEFT SIDE USING NEWLY CONSTRUCTED SIDEWALK.
CONSTRUCTION PHASE 3
 FROM STA. 435+00 TO STA. 462+00 FINISH CONSTRUCTION OF REMAINING KY 1600 MAINLINE ROADWAY TO TOP OF BASE COURSE.
 CONSTRUCT REMAINING CROSS PIPES STA 437+35, 447+00, AND 458+78. CONSTRUCT ENTRANCE PIPES AT ENTRANCE STA. 435+23, 439+71, 440+76, AND 441+31. ROAD CLOSURE IS ALLOWED FOR FULL-WIDTH CONSTRUCTION OF CROSS PIPE AT STA 437+35. ROAD CLOSURE IS LIMITED TO WEEKENDS BETWEEN 6:00 PM ON FRIDAY AND 6:30 AM ON MONDAY. LIQUIDATED DAMAGES OF \$4,750 WILL BE APPLIED IF ROAD IS CLOSED.
 CONSTRUCT MEDIAN INLETS AND PIPES AT STA. 462+00.
 CONSTRUCT RAMP B AND COMPLETE CONSTRUCTION OF RAMPS A AND C. CONSTRUCT CROSS PIPES (RAMP A) STA 1406+86.66
 REMOVE EXISTING PAVEMENT MARKERS ALONG NB US31W BYPASS. CONSTRUCT NB US 31W BYPASS LANES TO TOP OF BASE COURSE. CONSTRUCT CROSS PIPES (STA 190+50, 192+50, 197+50, 202+50, 207+50, AND 212+50.)
 FINISH CONSTRUCTION OF BYPASS CULVERTS 183+99 AND 204+50.
 FINISH CONSTRUCTION OF ALL APPROACHES UNDER TRAFFIC. CONSTRUCT CROSS PIPE APPROACH RT. 436+49.19 STA. 20+72.

 CONSTRUCTION THIS PHASE

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

USER: PEC_ashley-m
 DATE: 8/12/2011
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 8/12/2011



FOR MAINTENANCE OF TRAFFIC ONLY

ELIZABETHTOWN TO RADCLIFF CONNECTOR
 MAINTENANCE OF TRAFFIC
 PHASE 3

SCALE: 1"=200'

CONTRACT ID: 111036
COUNTY: HARDIN
PROPOSAL: JP02 047 8547

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
ALT GROUPIAA10001 PAVING-ASPHALT						
0010	00001	DGA BASE	93,926.000	TON		
0020	00003	CRUSHED STONE BASE	20,176.000	TON		
0030	00013	LIME STABILIZED ROADBED	74,882.000	SQYD		
0040	00014	LIME	1,348.000	TON		
0050	00018	DRAINAGE BLANKET-TYPE II-ASPH	12,901.000	TON		
0060	00020	TRAFFIC BOUND BASE	2,150.000	TON		
0070	00078	CRUSHED AGGREGATE SIZE NO 2	29,361.000	TON		
0080	00100	ASPHALT SEAL AGGREGATE	353.000	TON		
0090	00190	LEVELING & WEDGING PG64-22	2,320.000	TON		
0100	00212	CL2 ASPH BASE 1.00D PG64-22	23,633.000	TON		
0110	00214	CL3 ASPH BASE 1.00D PG64-22	86,495.000	TON		
0120	00221	CL2 ASPH BASE 0.75D PG64-22	1,465.000	TON		
0130	00223	CL3 ASPH BASE 0.75D PG64-22	10,620.000	TON		
0140	00291	EMULSIFIED ASPHALT RS-2	43.000	TON		
0150	00301	CL2 ASPH SURF 0.38D PG64-22	6,380.000	TON		
0160	00358	ASPHALT CURING SEAL	136.000	TON		
0170	00388	CL3 ASPH SURF 0.38B PG64-22	749.000	TON		
0180	02101	CEM CONC ENT PAVEMENT-8 IN	1,456.000	SQYD		
0190	02599	FABRIC-GEOTEXTILE TYPE IV	88,194.000	SQYD		
0200	02677	ASPHALT PAVE MILLING & TEXTURING	129.000	TON		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0210	02702	SAND FOR BLOTTER	187.000	TON		
0220	10203ND	PAVEMENT ADJUSTMENT ASPHALT	(1.00)	LS	767,744.00	767,744.00
0230	22906ES403	CL3 ASPH SURF 0.38A PG64-22	11,318.000	TON		
0231	23044ES508	CONCRETE MEDIAN BARRIER TY 14C(50) (ADDED: 8-16-11)	5,989.000	LF		
ALT GROUPIAA20002 PAVING-CONC WITH CONC SHOULDER						
0240	00001	DGA BASE	94,622.000	TON		
0250	00013	LIME STABILIZED ROADBED	75,924.000	SQYD		
0260	00014	LIME	1,367.000	TON		
0270	00018	DRAINAGE BLANKET-TYPE II-ASPH	606.000	TON		
0280	00020	TRAFFIC BOUND BASE	2,150.000	TON		
0290	00022	JPC PAVEMENT DRAINAGE BLANKET	18,031.000	TON		
0300	00100	ASPHALT SEAL AGGREGATE	353.000	TON		
0310	00190	LEVELING & WEDGING PG64-22	1,426.000	TON		
0320	00212	CL2 ASPH BASE 1.00D PG64-22	15,139.000	TON		
0330	00214	CL3 ASPH BASE 1.00D PG64-22	1,503.000	TON		
0340	00291	EMULSIFIED ASPHALT RS-2	43.000	TON		
0350	00301	CL2 ASPH SURF 0.38D PG64-22	3,903.000	TON		
0360	00358	ASPHALT CURING SEAL	166.000	TON		
0370	02069	JPC PAVEMENT-10 IN	26,219.000	SQYD		
0380	02071	JPC PAVEMENT-11 IN	79,606.000	SQYD		
0390	02072	JPC PAVEMENT-11 IN SHLD	7,067.000	SQYD		
0400	02078	JPC PAVEMENT-6 IN SHLD	26,267.000	SQYD		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0410	02081	JPC PAVEMENT-8 IN SHLD	8,677.000	SQYD		
0420	02084	JPC PAVEMENT-8 IN	54,517.000	SQYD		
0430	02101	CEM CONC ENT PAVEMENT-8 IN	1,456.000	SQYD		
0440	02599	FABRIC-GEOTEXTILE TYPE IV	45,621.000	SQYD		
0450	02677	ASPHALT PAVE MILLING & TEXTURING	129.000	TON		
0460	02702	SAND FOR BLOTTER	190.000	TON		
0470	10203ND	PAVEMENT ADJUSTMENT CONC	(1.00)	LS	402,179.00	402,179.00
0480	22906ES403	CL3 ASPH SURF 0.38A PG64-22	632.000	TON		
0481	23044ES508	CONCRETE MEDIAN BARRIER TY 14C(50) (ADDED: 8-16-11)	5,989.000	LF		
0490	24251EC	DRAINAGE LAYER/BOND BREAKER MIX PG64-22	4,217.000	TON		
ALT GROUPIAA30003 PAVING-CONC WITH ASPH SHOULDER						
0500	00001	DGA BASE	99,841.000	TON		
0510	00013	LIME STABILIZED ROADBED	76,291.000	SQYD		
0520	00014	LIME	1,374.000	TON		
0530	00018	DRAINAGE BLANKET-TYPE II-ASPH	606.000	TON		
0540	00020	TRAFFIC BOUND BASE	2,150.000	TON		
0550	00022	JPC PAVEMENT DRAINAGE BLANKET	18,031.000	TON		
0560	00100	ASPHALT SEAL AGGREGATE	353.000	TON		
0570	00190	LEVELING & WEDGING PG64-22	909.000	TON		
0580	00212	CL2 ASPH BASE 1.00D PG64-22	22,289.000	TON		
0590	00214	CL3 ASPH BASE 1.00D PG64-22	1,503.000	TON		
0600	00221	CL2 ASPH BASE 0.75D PG64-22	1,831.000	TON		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0610	00291	EMULSIFIED ASPHALT RS-2	43.000	TON		
0620	00301	CL2 ASPH SURF 0.38D PG64-22	6,380.000	TON		
0630	00358	ASPHALT CURING SEAL	167.000	TON		
0640	02069	JPC PAVEMENT-10 IN	26,219.000	SQYD		
0650	02071	JPC PAVEMENT-11 IN	85,584.000	SQYD		
0660	02084	JPC PAVEMENT-8 IN	54,517.000	SQYD		
0670	02101	CEM CONC ENT PAVEMENT-8 IN	1,456.000	SQYD		
0680	02599	FABRIC-GEOTEXTILE TYPE IV	45,621.000	SQYD		
0690	02677	ASPHALT PAVE MILLING & TEXTURING	129.000	TON		
0700	02702	SAND FOR BLOTTER	191.000	TON		
0710	10203ND	PAVEMENT ADJUSTMENT CONC WITH ASPH SHOULDER	(1.00)	LS	402,179.00	402,179.00
0720	22906ES403	CL3 ASPH SURF 0.38A PG64-22	632.000	TON		
0721	23044ES508	CONCRETE MEDIAN BARRIER TY 14C(50) (ADDED: 8-16-11)	5,989.000	LF		
0730	24251EC	DRAINAGE LAYER/BOND BREAKER MIX PG64-22	4,217.000	TON		
SECTION 0004 ROADWAY						
0740	00078	CRUSHED AGGREGATE SIZE NO 2	114.000	TON		
0750	00440	ENTRANCE PIPE-15 IN	472.000	LF		
0760	00441	ENTRANCE PIPE-18 IN	189.000	LF		
0770	00443	ENTRANCE PIPE-24 IN	42.000	LF		
0780	00452	ENTRANCE PIPE-24 IN EQUIV	41.000	LF		
0790	00461	CULVERT PIPE-15 IN	81.000	LF		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0800	00462	CULVERT PIPE-18 IN	1,791.000	LF		
0810	00464	CULVERT PIPE-24 IN	938.000	LF		
0820	00466	CULVERT PIPE-30 IN	146.000	LF		
0830	00468	CULVERT PIPE-36 IN	309.000	LF		
0840	00469	CULVERT PIPE-42 IN	215.000	LF		
0850	00472	CULVERT PIPE-60 IN	177.000	LF		
0860	00473	CULVERT PIPE-66 IN	130.000	LF		
0870	00492	CULVERT PIPE-24 IN EQUIV	209.000	LF		
0880	00494	CULVERT PIPE-30 IN EQUIV	76.000	LF		
0890	00499	CULVERT PIPE-48 IN EQUIV	72.000	LF		
0900	00501	CULVERT PIPE-60 IN EQUIV	30.000	LF		
0910	00521	STORM SEWER PIPE-15 IN	926.000	LF		
0920	00522	STORM SEWER PIPE-18 IN	1,091.000	LF		
0930	00524	STORM SEWER PIPE-24 IN	419.000	LF		
0940	00526	STORM SEWER PIPE-30 IN	462.000	LF		
0950	00528	STORM SEWER PIPE-36 IN	290.000	LF		
0960	00530	STORM SEWER PIPE-48 IN	17.000	LF		
0970	00532	STORM SEWER PIPE-60 IN	346.000	LF		
0980	01000	PERFORATED PIPE-4 IN	30,475.000	LF		
0990	01010	NON-PERFORATED PIPE-4 IN	2,644.000	LF		
1000	01015	INSPECT & CERTIFY EDGE DRAIN SYSTEM	(1.00)	LS		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1010	01020	PERF PIPE HEADWALL TY 1-4 IN	1.000	EACH		
1020	01024	PERF PIPE HEADWALL TY 2-4 IN	1.000	EACH		
1030	01028	PERF PIPE HEADWALL TY 3-4 IN	76.000	EACH		
1040	01032	PERF PIPE HEADWALL TY 4-4 IN	36.000	EACH		
1050	01073	STEEL ENCASEMENT PIPE-16 IN	170.000	LF		
1060	01310	REMOVE PIPE	182.000	LF		
1070	01374	METAL END SECTION TY 1-30 IN	1.000	EACH		
1080	01390	METAL END SECTION TY 3-15 IN	4.000	EACH		
1090	01391	METAL END SECTION TY 3-18 IN	25.000	EACH		
1100	01393	METAL END SECTION TY 3-24 IN	10.000	EACH		
1110	01394	METAL END SECTION TY 3-30 IN	2.000	EACH		
1120	01395	METAL END SECTION TY 3-36 IN	4.000	EACH		
1130	01396	METAL END SECTION TY 3-42 IN	1.000	EACH		
1140	01399	METAL END SECTION TY 3-60 IN	1.000	EACH		
1150	01432	SLOPED BOX OUTLET TYPE 1-15 IN	1.000	EACH		
1160	01433	SLOPED BOX OUTLET TYPE 1-18 IN	7.000	EACH		
1170	01456	CURB BOX INLET TYPE A	23.000	EACH		
1180	01480	CURB BOX INLET TYPE B	9.000	EACH		
1190	01490	DROP BOX INLET TYPE 1	5.000	EACH		
1200	01496	DROP BOX INLET TYPE 3	2.000	EACH		
1210	01502	DROP BOX INLET TYPE 5A	1.000	EACH		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1220	01505	DROP BOX INLET TYPE 5B	1.000	EACH		
1230	01511	DROP BOX INLET TYPE 5D	1.000	EACH		
1240	01514	DROP BOX INLET TYPE 5E	1.000	EACH		
1250	01517	DROP BOX INLET TYPE 5F	10.000	EACH		
1260	01538	DROP BOX INLET TYPE 7	3.000	EACH		
1270	01577	DROP BOX INLET TYPE 14	2.000	EACH		
1280	01634	CAP CURB BOX INLET	12.000	EACH		
1290	01649	JUNCTION BOX-60 IN	2.000	EACH		
1300	01691	FLUME INLET TYPE 2	1.000	EACH		
1310	01718	REMOVE INLET	4.000	EACH		
1320	01740	CORED HOLE DRAINAGE BOX CON-4 IN	13.000	EACH		
1330	01767	MANHOLE TYPE C	2.000	EACH		
1340	01786	FILL AND CAP MANHOLE	4.000	EACH		
1350	01791	ADJUST MANHOLE FRAME TO GRADE	6.000	EACH		
1360	01810	STANDARD CURB AND GUTTER	6,966.000	LF		
1370	01875	STANDARD HEADER CURB	585.000	LF		
1380	01890	ISLAND HEADER CURB TYPE 1	667.000	LF		
1390	01982	DELINEATOR FOR GUARDRAIL-WHITE	64.000	EACH		
1400	01983	DELINEATOR FOR GUARDRAIL-YELLOW	36.000	EACH		
1410	01985	DELINEATOR FOR BARRIER-YELLOW	66.000	EACH		
1420	02001	CURB TO BARRIER WALL TRANS	1.000	EACH		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1430	02003	RELOCATE TEMP CONC BARRIER (REVISED: 8-16-11)	2,800.000	LF		
1440	02009	REMOVE ASPHALT MEDIAN	486.000	SQYD		
1450	02014	BARRICADE-TYPE III	3.000	EACH		
1460	02058	REMOVE PCC PAVEMENT	4,895.000	SQYD		
1470	02091	REMOVE PAVEMENT	5,249.000	SQYD		
1480	02159	TEMP DITCH	39,775.000	LF		
1490	02160	CLEAN TEMP DITCH	39,775.000	LF		
1500	02200	ROADWAY EXCAVATION	450,144.000	CUYD		
1510	02203	STRUCTURE EXCAV-UNCLASSIFIED	55.000	CUYD		
1520	02237	DITCHING	13,252.000	LF		
1530	02242	WATER	16.100	MGAL		
1540	02262	FENCE-WOVEN WIRE TYPE 1	16,782.000	LF		
1550	02351	GUARDRAIL-STEEL W BEAM-S FACE	7,037.000	LF		
1560	02360	GUARDRAIL TERMINAL SECTION NO 1	9.000	EACH		
1570	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.000	EACH		
1580	02367	GUARDRAIL END TREATMENT TYPE 1	3.000	EACH		
1590	02369	GUARDRAIL END TREATMENT TYPE 2A	4.000	EACH		
1600	02371	GUARDRAIL END TREATMENT TYPE 7	3.000	EACH		
1610	02381	REMOVE GUARDRAIL	11,813.000	LF		
1620	02383	REMOVE & RESET GUARDRAIL	800.000	LF		
1630	02387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	2.000	EACH		

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1640	02391	GUARDRAIL END TREATMENT TYPE 4A	3.000	EACH		
1650	02397	TEMP GUARDRAIL	800.000	LF		
1660	02429	RIGHT-OF-WAY MONUMENT TYPE 1	129.000	EACH		
1670	02432	WITNESS POST	32.000	EACH		
1680	02471	FILL AND CAP SINKHOLE	6.000	EACH		
1690	02483	CHANNEL LINING CLASS II	1,177.000	TON		
1700	02484	CHANNEL LINING CLASS III	1,518.000	TON		
1710	02545	CLEARING AND GRUBBING 67.57 ACRES	(1.00)	LS		
1720	02555	CONCRETE-CLASS B	26.700	CUYD		
1730	02562	SIGNS	1,261.000	SQFT		
1740	02585	EDGE KEY	640.000	LF		
1750	02599	FABRIC-GEOTEXTILE TYPE IV	2,176.000	SQYD		
1760	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	14,915.000	SQYD	2.00	29,830.00
1770	02610	RETAINING WALL-GABION	84.000	CUYD		
1780	02625	REMOVE HEADWALL	5.000	EACH		
1790	02650	MAINTAIN & CONTROL TRAFFIC	(1.00)	LS		
1800	02651	DIVERSIONS (BY-PASS DETOURS)	(1.00)	LS		
1810	02671	PORTABLE CHANGEABLE MESSAGE SIGN	7.000	EACH		
1820	02690	SAFELOADING	173.700	CUYD		
1830	02696	SHOULDER RUMBLE STRIPS-SAWED	13,252.000	LF		
1840	02701	TEMP SILT FENCE	40,013.000	LF		

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1850	02703	SILT TRAP TYPE A	172.000	EACH		
1860	02704	SILT TRAP TYPE B	172.000	EACH		
1870	02705	SILT TRAP TYPE C	221.000	EACH		
1880	02706	CLEAN SILT TRAP TYPE A	516.000	EACH		
1890	02707	CLEAN SILT TRAP TYPE B	516.000	EACH		
1900	02708	CLEAN SILT TRAP TYPE C	663.000	EACH		
1910	02709	CLEAN TEMP SILT FENCE	40,013.000	LF		
1920	02714	SHOULDERING	13,252.000	LF		
1930	02720	SIDEWALK-4 IN CONCRETE	1,675.000	SQYD		
1940	02723	SIDEWALK-6 IN CONCRETE	1,386.000	SQYD		
1950	02726	STAKING	(1.00)	LS		
1960	02731	REMOVE STRUCTURE EXIST BRIDGE OVER BYPASS	(1.00)	LS		
1970	02731	REMOVE STRUCTURE EXIST CULVERT AT SHAW CREEK	(1.00)	LS		
1980	02775	ARROW PANEL	2.000	EACH		
1990	02898	RELOCATE CRASH CUSHION (REVISED: 8-16-11)	10.000	EACH		
2000	02900	INSTALL TEMP CRASH CUSHION (REVISED: 8-16-11)	7.000	EACH		
2010	02998	MASONRY COATING	3,549.000	SQYD		
2020	03171	CONCRETE BARRIER WALL TYPE 9T (REVISED: 8-16-11)	3,350.000	LF		
2030	03225	TUBULAR MARKERS	312.000	EACH		
2040	03287	SIDEWALK RAMP TYPE 1	10.000	EACH		
2050	04953	TEMP RELOCATION OF SIGNAL HEAD	5.000	EACH		

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2060	05950	EROSION CONTROL BLANKET	32,606.000	SQYD		
2070	05952	TEMP MULCH	599,802.000	SQYD		
2080	05953	TEMP SEEDING AND PROTECTION	32,271.000	SQYD		
2090	05966	TOPDRESSING FERTILIZER	16.960	TON		
2100	05985	SEEDING AND PROTECTION	322,713.000	SQYD		
2110	05989	SPECIAL SEEDING CROWN VETCH	55,296.000	SQYD		
2120	05990	SODDING	8,445.000	SQYD		
2130	06510	PAVE STRIPING-TEMP PAINT-4 IN	130,786.000	LF		
2140	06513	PAVE STRIPING-TEMP PAINT-12 IN	7,684.000	LF		
2150	06514	PAVE STRIPING-PERM PAINT-4 IN	123,144.000	LF		
2160	06542	PAVE STRIPING-THERMO-6 IN W	19,617.000	LF		
2170	06543	PAVE STRIPING-THERMO-6 IN Y	13,653.000	LF		
2180	06546	PAVE STRIPING-THERMO-12 IN W	3,842.000	LF		
2190	06567	PAVE MARKING-THERMO STOP BAR-12IN	761.000	LF		
2200	06568	PAVE MARKING-THERMO STOP BAR-24IN	424.000	LF		
2210	06574	PAVE MARKING-THERMO CURV ARROW	118.000	EACH		
2220	06575	PAVE MARKING-THERMO COMB ARROW	11.000	EACH		
2230	06585	PAVEMENT MARKER TY IVA-MW TEMP	95.000	EACH		
2240	06588	PAVEMENT MARKER TY IVA-BY TEMP	663.000	EACH		
2250	06589	PAVEMENT MARKER TYPE V-MW	222.000	EACH		
2260	06591	PAVEMENT MARKER TYPE V-BY	42.000	EACH		

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2270	06592	PAVEMENT MARKER TYPE V-B W/R	123.000	EACH		
2280	06593	PAVEMENT MARKER TYPE V-B Y/R	103.000	EACH		
2290	06600	REMOVE PAVEMENT MARKER TYPE V	84.000	EACH		
2300	08100	CONCRETE-CLASS A	54.400	CUYD		
2310	08100	CONCRETE-CLASS A FOR BARRIER END	8.100	CUYD		
2320	08150	STEEL REINFORCEMENT	3,483.000	LB		
2330	08150	STEEL REINFORCEMENT FOR BARRIER END	326.000	LB		
2340	08904	CRASH CUSHION TY VI CLASS C	2.000	EACH		
2350	20099ES842	PAVE MARK TEMP PAINT STOP BAR	24.000	LF		
2360	20100ES842	PAVE MARK TEMP PAINT LINE ARROW	22.000	EACH		
2370	20394ES835	PVC CONDUIT-3 IN- IN MEDIAN BARRIER WALL	1,066.000	LF		
2380	20509ED	BLOW UP/RELIEF JOINT	373.000	SQYD		
2390	20997ED	REMOVE TRAFFIC ISLAND	1,066.000	SQYD		
2400	21337NS710	CONC MED BARRIER BOX INLET-MOD	6.000	EACH		
2410	21588NN	METAL END SECTION TY 3-30 IN (EQUIV)	2.000	EACH		
2420	21589NN	METAL END SECTION TY 3-48 IN (EQUIV)	2.000	EACH		
2430	21655EN	REMOVE ASBESTOS PIPE	7,800.000	LF		
2440	21788ED	OPEN CUT W/ STEEL ENCASEMENT	190.000	LF		
2450	22572NN	METAL END SECTION TY 3-24 IN-EQUIV	6.000	EACH		
2460	22960ED	BORE & JACK ENCASEMENT PIPE-INSTALL	150.000	LF		
2480	23131ER701	PIPELINE VIDEO INSPECTION	4,234.000	LF		

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2490	23158ES505	DETECTABLE WARNINGS	110.000	SQFT		
2500	23274EN11F	TURF REINFORCEMENT MAT 1	22,538.000	SQYD		
2510	23629EC	REPAIR HEADWALL	2.000	EACH		
2520	23643EC	CURB BOX INLET TY F-MOD	4.000	EACH		
2530	23791EC	PAVE STRIPING-CHEVRON MARKINGS	4,985.000	SQFT		
2540	24252EC	JUNCTION BOX-66 IN	1.000	EACH		
SECTION 0005 BRIDGE						
2550	02200	ROADWAY EXCAVATION	8,299.000	CUYD		
2560	02223	GRANULAR EMBANKMENT	10,071.000	CUYD		
2570	02231	STRUCTURE GRANULAR BACKFILL	10,516.000	CUYD		
2580	02998	MASONRY COATING	3,053.000	SQYD		
2590	03299	ARMORED EDGE FOR CONCRETE	613.600	LF		
2600	04797	CONDUIT-3 IN	599.000	LF		
2610	04810	JUNCTION BOX-ELECTRICAL	8.000	EACH		
2620	08001	STRUCTURE EXCAVATION-COMMON	622.000	CUYD		
2630	08002	STRUCTURE EXCAV-SOLID ROCK	1,371.000	CUYD		
2640	08003	FOUNDATION PREPARATION 26651	(1.00)	LS		
2650	08003	FOUNDATION PREPARATION 26652	(1.00)	LS		
2660	08003	FOUNDATION PREPARATION 26666	(1.00)	LS		
2670	08003	FOUNDATION PREPARATION 26667	(1.00)	LS		
2680	08018	RETAINING WALL	26,674.000	SQFT		

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2690	08100	CONCRETE-CLASS A	4,989.000	CUYD		
2700	08104	CONCRETE-CLASS AA	1,186.100	CUYD		
2710	08135	MECHANICAL REINF COUPLER #10	48.000	EACH		
2720	08150	STEEL REINFORCEMENT	885,753.000	LB		
2730	08151	STEEL REINFORCEMENT-EPOXY COATED	296,803.000	LB		
2740	08160	STRUCTURAL STEEL 714016 LBS.	(1.00)	LS		
2750	08170	SHEAR CONNECTORS 5914	(1.00)	LS		
2760	08633	PRECAST PC I BEAM TYPE 3	1,487.700	LF		
2770	20391NS835	JUNCTION BOX TYPE A	4.000	EACH		
2780	20745ED	ROCK SOUNDINGS	559.000	LF		
2790	20746ED	ROCK CORINGS	2,847.000	LF		
2800	21532ED	RAIL SYSTEM TYPE III	546.600	LF		
2810	21679EN	FIBERGLASS DRAIN PIPE	25.000	LF		
2820	22885EN	DRILLED SHAFT-72 IN-ROCK	1,307.000	LF		
2830	23249EC	DRILLED SHAFT-72 IN COMMON	48.000	LF		
2840	24001EC	DRILLED SHAFT-78 IN COMMON	498.000	LF		
SECTION 0006 SIGNING						
2850	06405	SBM ALUMINUM PANEL SIGNS	650.000	SQFT		
2860	06441	GMSS GALV STEEL TYPE C	3,606.000	LB		
2870	06490	CLASS A CONCRETE FOR SIGNS	11.800	CUYD		
2880	06491	STEEL REINFORCEMENT FOR SIGNS	748.000	LB		
SECTION 0007 SIGNALIZATION						

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2890	04793	CONDUIT-1 1/4 IN	85.000	LF		
2900	04795	CONDUIT-2 IN	1,410.000	LF		
2910	04811	JUNCTION BOX TYPE B	12.000	EACH		
2920	04820	TRENCHING AND BACKFILLING	1,495.000	LF		
2930	04830	LOOP WIRE	6,919.000	LF		
2940	04844	CABLE-NO. 14/5C	2,635.000	LF		
2950	04845	CABLE-NO. 14/7C	355.000	LF		
2960	04850	CABLE-NO. 14/1 PAIR	10,264.000	LF		
2970	04885	MESSENGER-10800 LB	1,115.000	LF		
2980	04895	LOOP SAW SLOT AND FILL	2,534.000	LF		
2990	04931	INSTALL CONTROLLER TYPE 170	2.000	EACH		
3000	04932	INSTALL STEEL STRAIN POLE	8.000	EACH		
3010	04950	REMOVE SIGNAL EQUIPMENT	1.000	EACH		
3020	06472	INSTALL SPAN MOUNTED SIGN	2.000	EACH		
3030	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	8.000	EACH		
3040	20188NS835	INSTALL LED SIGNAL-3 SECTION	24.000	EACH		
3050	20189NS835	INSTALL LED SIGNAL-5 SECTION	2.000	EACH		
3060	23157EN	TRAFFIC SIGNAL POLE BASE	43.000	CUYD		
3070	23982EC	INSTALL ANTENNA	2.000	EACH		
3080	24133EC	INSTALL SIGNAL SENSOR SYSTEM	1.000	EACH		
3090	24150EC	INSTALL LED SIGN	2.000	EACH		

SECTION 0008 LIGHTING

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3100	04700	POLE 30 FT MTG HT	20.000	EACH		
3110	04701	POLE 40 FT MTG HT	36.000	EACH		
3120	04720	BRACKET 4 FT	5.000	EACH		
3130	04722	BRACKET 8 FT	12.000	EACH		
3140	04723	BRACKET 10 FT	3.000	EACH		
3150	04725	BRACKET 15 FT	9.000	EACH		
3160	04730	BRACKET C	27.000	EACH		
3170	04740	POLE BASE	24.000	EACH		
3180	04741	POLE BASE IN MEDIAN WALL	27.000	EACH		
3190	04750	TRANSFORMER BASE	24.000	EACH		
3200	04761	LIGHTING CONTROL EQUIPMENT	1.000	EACH		
3210	04770	HPS LUMINAIRE	29.000	EACH		
3220	04780	FUSED CONNECTOR KIT	112.000	EACH		
3230	04793	CONDUIT-1 1/4 IN	5,550.000	LF		
3240	04795	CONDUIT-2 IN	500.000	LF		
3250	04797	CONDUIT-3 IN	270.000	LF		
3260	04800	MARKER	4.000	EACH		
3270	04810	JUNCTION BOX-ELECTRICAL	1.000	EACH		
3280	04820	TRENCHING AND BACKFILLING	5,600.000	LF		
3290	04832	WIRE-NO. 12	12,690.000	LF		
3300	04833	WIRE-NO. 8	19,720.000	LF		

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3310	04834	WIRE-NO. 6	2,380.000	LF		
3320	04835	WIRE-NO. 4	3,400.000	LF		
3330	04861	CABLE-NO. 6/3C DUCTED	920.000	LF		
3340	04862	CABLE-NO. 4/3C DUCTED	940.000	LF		
3350	20391NS835	JUNCTION BOX TYPE A	16.000	EACH		
3360	20993ND	HPS LUMINAIRE 400 WATT	27.000	EACH		
3370	21543EN	BORE AND JACK CONDUIT	600.000	LF		
SECTION 0009 MOB AND DEMOB						
3380	02568	MOBILIZATION (NO MORE THAN 5%)		LUMP		
3390	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				