

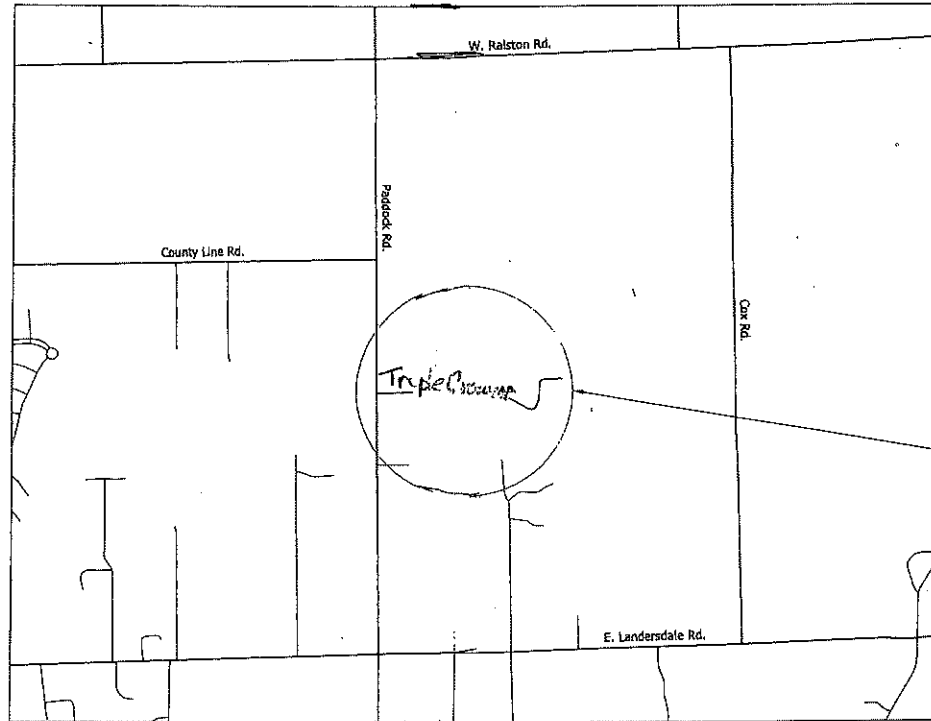
# MORGAN COUNTY

## ROAD PLANS

### TRIPLE CROWN LANE

Pavement ~~Design~~ on Triple Crown Lane  
 In Section 26, T-14-N, R-26 Madison Township, Morgan County

Gross Length: 0.47 MI.  
 Net Length: 0.47 MI.



PROJECT LOCATION

MORGAN COUNTY  
 Scale: 1" = 1,000'

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2 - 5	CONSTRUCTION DETAILS & TYPICAL SECTIONS
6	SUMMARY OF QUANTITIES

#### MORGAN COUNTY BOARD OF COMMISSIONERS

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

NORMAN VOYLES, PRESIDENT

DON ADAMS, COMMISSIONER

BRIAN GOSS, COMMISSIONER

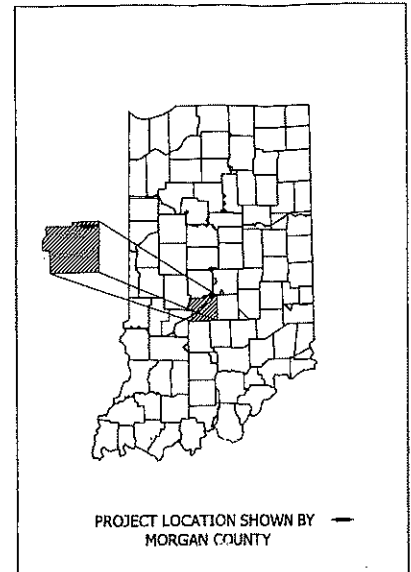
RECOMMEND FOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

LARRY SMITH, P.E.

ATTESTED BY \_\_\_\_\_ DATE \_\_\_\_\_

DAN BASTIN, AUDITOR

DESIGN SPEED: 15 MPH



PROJECT LOCATION SHOWN BY  
 MORGAN COUNTY

LATITUDE: xx LONGITUDE: xx

Plans Prepared By:



**SJCA** r.c.  
**ENGINEERS  
 & SURVEYORS**  
 9102 North Meridian Street, Suite 200, Indianapolis, IN 46260  
 Phone: (317) 566-0629  
 E-mail: sjca@sjcasoc.com

INDIANA DEPARTMENT OF TRANSPORTATION  
 STANDARD SPECIFICATIONS DATED  
 2016 TO BE USED WITH THESE PLANS

PLANS PREPARED BY: SJCA, P.C. (317) 566-0629 PHONE NUMBER

CERTIFIED BY: \_\_\_\_\_ 09/11/2016 DATE

BRIDGE FILE	
DESIGNATION	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 6
CONTRACT	PROJECT

POT 10+00.00

10+00

11+00

12+00

13+00

14+00

15+00

BEGIN PROJECT  
Sta. 10+08.61 "A"

+43, Str. No. 10  
46' of 15" CMP  
Up. Inv. 743.70 (N)  
Dn. Inv. 743.21 (S)

+49, Str. No. 11  
46' of 15" CMP  
Up. Inv. 743.70 (N)  
Dn. Inv. 743.21 (S)

PT 13+04.88

Ingress and Egress Easement

Triple Crown Lane

N 87° 10' 11" E

N 88° 33' 42" E

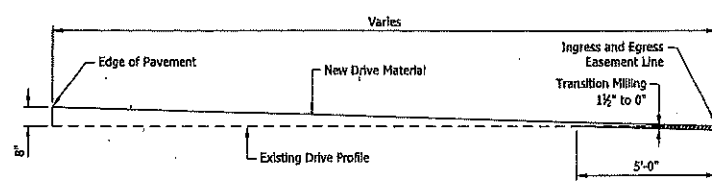
Line "A"

Ingress +  
Egress Easement

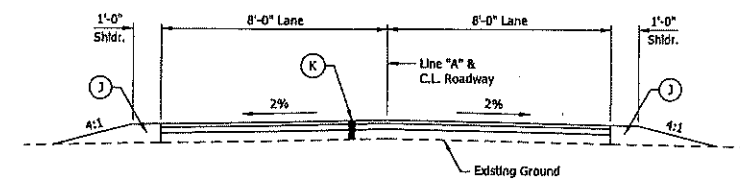
+29 "A", Drive

+46 "A", Drive

Note: Any Areas Outside of Existing Edge of Pavement that falls within Proposed Edge of Pavement, said Area is to be Removed and Replaced with Compacted Aggregate, No. 53 Base.



**DRIVE WEDGE DETAIL**  
Not to Scale



**TYPICAL SECTION**  
Scale: 3/8" = 1'-0"  
From Sta. 10+08.61 "A" to 29+50.00 "A"

**LEGEND**

- (K) 165 #/sys - HMA, Surface, Type A on 275 #/sys - HMA, Intermediate, Type A on 440 #/sys - HMA, Base, Type A
- (J) 8" Compacted Aggregate, No. 53

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PEC	DRAWN: PFC	
CHECKED: MSL	CHECKED: MSL	

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**DETAIL SHEET**

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	2 of 6
	PROJECT



23+00

24+00

25+00

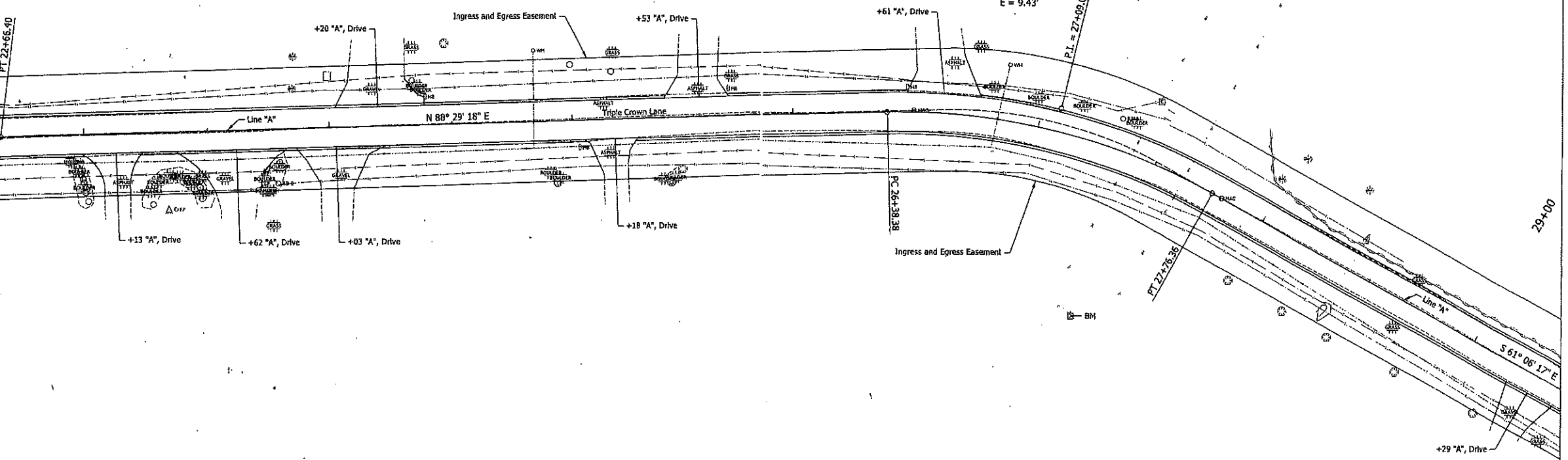
26+00

27+00

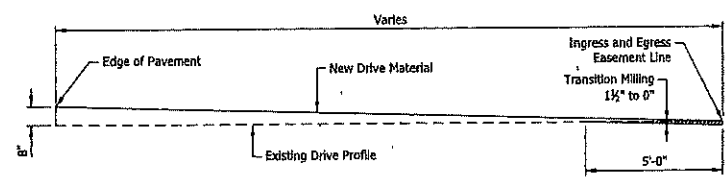
28+00

29+00

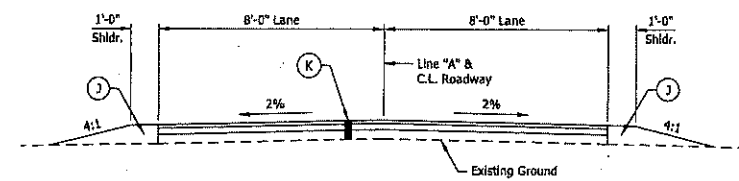
**CURVE DATA**  
 P.I. STA. 27+09.04 "A"  
 $\Delta = 30^\circ 24' 25"$  (RT)  
 R = 260.00'  
 T = 70.66'  
 L = 137.98'  
 E = 9.43'



Note: Any Areas Outside of Existing Edge of Pavement that falls within Proposed Edge of Pavement, said Area is to be Removed and Replaced with Compacted Aggregate, No. 53.



**DRIVE WEDGE DETAIL**  
Not to Scale



**TYPICAL SECTION**  
Scale: 3/8" = 1'-0"

From Sta. 10+08.61 "A" to 29+50.00 "A"

**LEGEND**

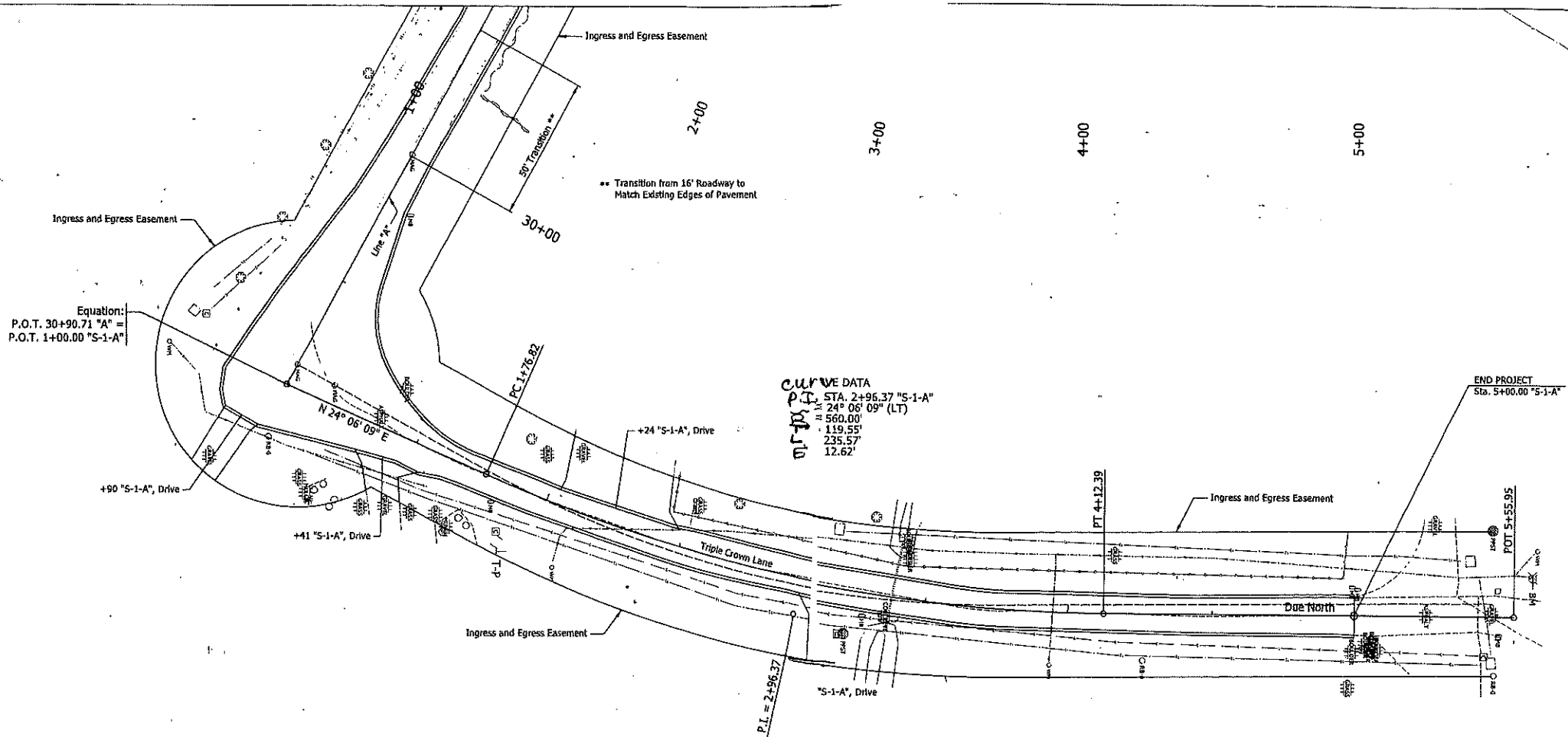
- (K) 165 #/sys - HMA, Surface, Type A on 275 #/sys - HMA, Intermediate, Type A on 440 #/sys - HMA, Base, Type A
- (J) 8" Compacted Aggregate, No. 53

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MS	CHECKED: MS	

INDIANA  
DEPARTMENT OF TRANSPORTATION

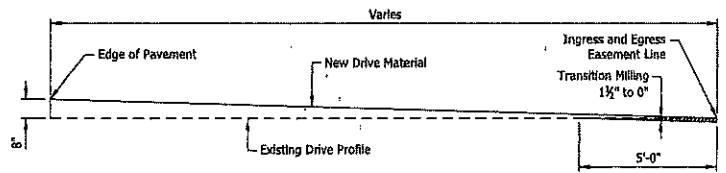
DETAIL SHEET

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	4 of 6
	PROJECT

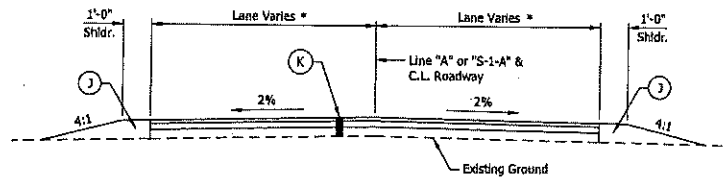


**CURVE DATA**  
 STA. 2+96.37 "S-1-A"  
 PI = 24° 06' 09" (LT)  
 R = 560.00'  
 L = 119.55'  
 T = 235.57'  
 E = 12.62'

Note: Any Areas Outside of Existing Edge of Pavement that falls within Proposed Edge of Pavement, said Area is to be Removed and Replaced with Compacted Aggregate, No. 53 Base.



**DRIVE WEDGE DETAIL**  
 Not to Scale



**TYPICAL SECTION**  
 Scale: 3/8" = 1'-0"

From Sta. 29+50.00 "A" to Sta. 30+90.71 "A"  
 From Sta. 1+00.00 "S-1-A" to Sta. 5+00.00 "S-1-A"

\* Proposed Pavement in this Section to Match Existing Pavement Edge

**LEGEND**

- (K) 165 #/sys - HMA, Surface, Type A on 275 #/sys - HMA, Intermediate, Type A on 410 #/sys - HMA, Base, Type A
- (J) 8" Compacted Aggregate, No. 53

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MSL	CHECKED: MSL	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
	5 of 6
CONTRACT	PROJECT

### PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH FT	LENGTH FT	RAVINE	DISTANCE BEYOND R/W LINE FT	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE FT	HMA FOR APPROACHES (AVERAGE DEPTH)		COMPACTED AGGREGATE (NO. 53 FOR APPROACHES (AVERAGE DEPTH)		HMA MATERIALS					HMA MATERIAL FOR: PRIME COAT				HMA MATERIAL FOR: TACK COAT				COMPACTED AGGREGATE FOR BASE NO. 53 (UNDISTRIBUTED)				COMPACTED AGGREGATE NO. 53 (SHOULDERS)				REMARKS
						CONCRETE	HMA	BASE								LBS. PER SYD.		DEPTH		LBS. PER SYD.					TONS	SYS	SYS	TON	DEPTH				DEPTH								
									1	2	3	4	CUT	FILL		440	5"	165	275	440	6"	8"																			
						%	%	%	%	CYS	CYS	SYS	SYS	SYS		SYS	SYS	SYS	SYS	TONS	SYS	SYS	SYS	TON	SYS	SYS	SYS	SYS	TON	TON											
10+08 - 30+90.71	LINE A	16	2072.0														3787	3787	3787							2	50			382											
1+00 - 5+00	LINE 5-1-A	12	400.0														650	650	650							0.3				63											
13+29			19.5																																						
14+46			21.6																																						
15+84			32.7																																						
18+04			24.4																																						
18+53			9.7																																						
18+56			24.3																																						
19+49			11.6																																						
19+85			17.5																																						
20+52			16.2																																						
23+13			17.3																																						
23+62			17.2																																						
24+03			17.0																																						
24+20			17.0																																						
25+18			16.8																																						
25+53			17.3																																						
26+61			18.6																																						
29+29			17.0																																						
0+90 "S-1-A"			24.0																																						
1+41 "S-1-A"			12.8																																						
2+24 "S-1-A"			18.1																																						
3+03 "S-1-A"			22.6																																						
TOTALS															408		22	4437	4437	4437							23				445										

#### STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH			FLOW LINE					SHEW	H	BACKFILL METHOD	STRUCTURE BACKFILL CYS	TYPE	FLOWABLE BACKFILL CYS	SCOUR PROTECTION							GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS				
	STATION	LEFT	RIGHT	CROSS		PIPE TYPE	SIZE FT	IN.	COVER	UP STREAM	DOWN STREAM	SERVICE LIFE	SITE DESIGNATION							TYPE	GEOTEXTILES	REINFORCEMENT RIPRAP	BUMP DEPTH	GEOTEXTILE	RIPRAP	CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION	PIPE END SECTION	TYPE		EA.				TYPE		EA.	
																													SYS	TON	IN.	SYS.			TYPE	TONS	CYS	LFT
10	11+43		X		CMP	46.0		1.2	743.70	743.21	50		7	1	6.6	1																						EQUALIZER PIPE
11	11+49		X		CMP	46.0		1.2	743.70	743.21	50		7	1	6.6	1																						EQUALIZER PIPE

DESIGNED: HFC	DRAWN: PPC
CHECKED: NSL	CHECKED: NSL

### INDIANA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DESIGN ENGINEER DATE \_\_\_\_\_

## SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
CONTRACT	6 of 6
	PROJECT

PART 3

CONTRACT ITEMS AND UNIT PRICES

[This Part is to be used only for Bidding on Unit Price Contracts for the Contract Items Shown]

Triple Crown Lane Improvements Morgan County, Indiana						
Contract Item No.	Description (in words)	Unit	Estimated Quantity	Unit Price	Total Price for Item	
1	CONSTRUCTION ENGINEERING	LS	1	\$ 3,150.00	\$ 3,150.00	
2	MOBILIZATION AND DEMOBILIZATION	LS	1	\$ 12,500.00	\$ 12,500.00	
3	CLEARING RIGHT OF WAY	LS	1	\$ 5,000.00	\$ 5,000.00	
4	COMMON EXCAVATION (UNDISTRIBUTED)	CYS	50	\$ 100.00	\$ 5,000.00	
5	LINEAR GRADING	LFT	4950	\$ 2.75	\$ 13,612.50	
6	TEMPORARY SILT FENCE	LFT	4950	\$ 2.25	\$ 11,137.50	
7	COMPACTED AGGREGATE NO. 53	TON	620	\$ 38.25	\$ 23,715.00	
8	COMP. AGG. BASE, NO. 53 (UNDISTRIBUTED)	TON	20	\$ 65.00	\$ 1,300.00	
9	HMA SURFACE, TYPE A	TON	366	\$ 71.50	\$ 26,169.00	
10	HMA INTERMEDIATE, TYPE A	TON	610	\$ 69.00	\$ 42,090.00	
11	HMA BASE, TYPE A	TON	976	\$ 65.00	\$ 63,440.00	
12	HMA FOR APPROACHES, TYPE A	TON	90	\$ 135.00	\$ 12,150.00	
13	ASPHALT FOR TACK COAT	TON	2.3	\$ 750.00	\$ 1,725.00	
14	PIPE, CMP, 15 INCH	LFT	92	\$ 62.00	\$ 5,704.00	
15	STRUCTURE BACKFILL, TYPE 1	CYS	13.2	\$ 62.50	\$ 825.00	
16	MOB./DEMOB. FOR SEEDING	EACH	1	\$ 650.00	\$ 650.00	
17	MULCHED SEEDING, R	SYS	2750	\$ 1.75	\$ 4,812.50	
18	RIPRAP, REVETMENT	TON	20	\$ 150.00	\$ 3,000.00	
19	MAINTAINING TRAFFIC	LS	1	\$ 10,000.00	\$ 10,000.00	

Total \$	245,980.50
10% Contingency \$	24,598.00
<b>CONSTRUCTION TOTAL \$</b>	<b>270,578.50</b>

Original Contract Amount (Survey & Prelim. Dgn.) \$	11,000.00
Additional Engineering Cost \$	12,300.00
Bid Process, Bid Review & Recommendation \$	5,000.00
Construction Inspection \$	12,600.00

\$	311,478.50
USE \$	312,000.00

**PART 3**

**CONTRACT ITEMS AND UNIT PRICES**

*[This Part is to be used only for Bidding on Unit Price Contracts for the Contract Items Shown]*