

PROJECT
BPW-2011-30
CONTRACT

CITY OF BLOOMINGTON DEPARTMENT OF PUBLIC WORKS

UTILITIES

WATER:	CITY OF BLOOMINGTON UTILITIES 600 E MILLER DR BLOOMINGTON, INDIANA 47401 PHONE: (812) 349-1444 CONTACT: MIKE BENGTSOON
ELECTRIC:	DUKE CINERGY 1100 W SECOND STREET BLOOMINGTON, IN 47403 PHONE: ((812) 337-3020 CONTACT: JEFF DORN
TELEPHONE:	AT&T 4517 E INDIANA BELL CT BLOOMINGTON, INDIANA 47408 PHONE: (812) 334-4521 CONTACT: BRENT McCABE
SANITARY:	CITY OF BLOOMINGTON UTILITIES 600 E MILLER DR BLOOMINGTON, INDIANA 47401 PHONE: (812) 349-1444 CONTACT: MIKE BENGTSOON
CABLE:	COMCAST 1600 W VERNAL PIKE BLOOMINGTON, INDIANA 47404 PHONE: (812) 332-9486 CONTACT: SCOTT TEMPLETON
GAS:	VECTREN ENERGY DELIVERY 205 S MADISON STREET BLOOMINGTON, INDIANA 47404 PHONE: (812) 330-4075 CONTACT: RAYMOND WISE

VERNAL PIKE DESIGN DATA	
DESIGN SPEED	45 m/hr
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	SECONDARY ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	ROLLING
ACCESS CONTROL	NONE

CRESCENT ROAD DESIGN DATA	
DESIGN SPEED	25 m/hr
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL
RURAL/URBAN	URBAN
TERRAIN	ROLLING
ACCESS CONTROL	NONE

WEST VERNAL PIKE & NORTH CRESCENT ROAD

PROJECT NO. BPW-2011-30

REALIGNMENT OF CRESCENT ROAD AT INTERSECTION WITH VERNAL PIKE LOCATED 0.3 MILES SOUTHEAST OF THE INTERSECTION OF S.R. 37 AND VERNAL PIKE, IN SECTION 31, T-9-N, R-1-W, BLOOMINGTON TOWNSHIP, MONROE COUNTY, INDIANA

"DON'T DIG BLIND"
CALL TWO WORKING DAYS
BEFORE YOU DIG

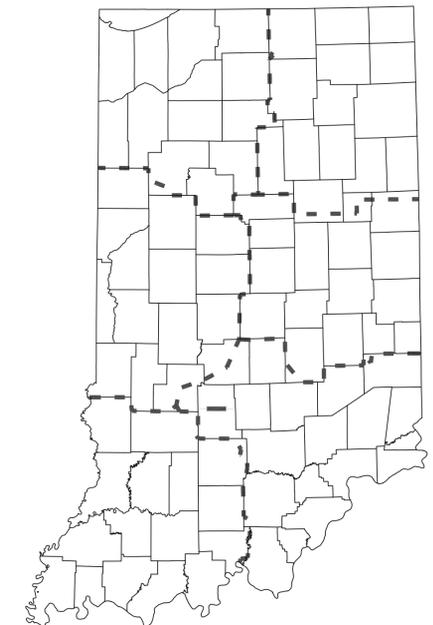
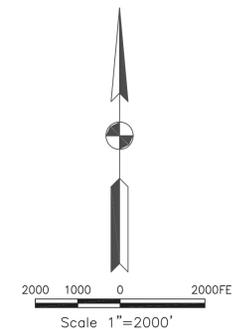
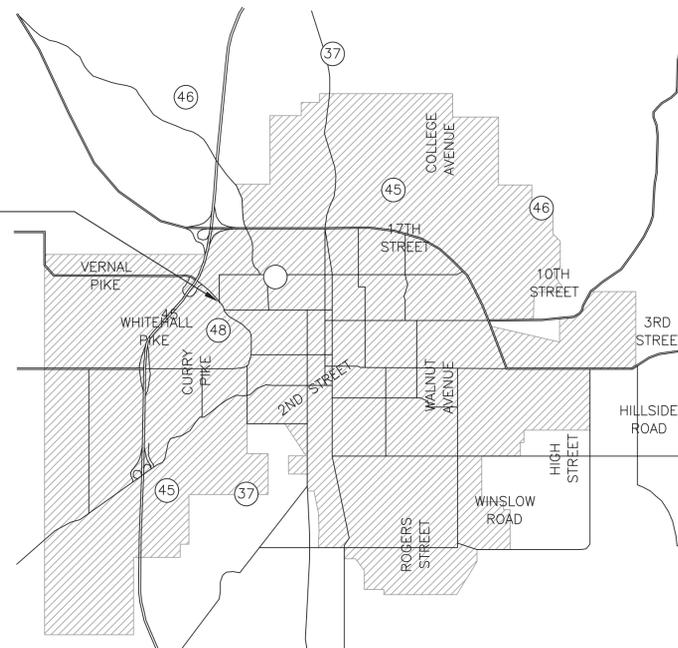


WITHIN INDIANA:
811
FROM OUTSIDE INDIANA:
1-800-382-5544

SHEET INDEX

- Sheet No. 1: Title Sheet
- Sheet No. 2: Detour Route
- Sheet No. 3: Typical Sections
- Sheet No. 4: Misc. Details/Pavement & Superelevation Plan Legend
- Sheet No. 5: Plan/Profile Sheet Vernal
- Sheet No. 6: Plan/Profile Sheet Vernal 2
- Sheet No. 7: Plan/Profile Sheet Crescent
- Sheet No. 8: Pavement Marking and Signage Plan
- Sheet No. 9: Drive Details
- Sheet No. 10: Sidewalk Details
- Sheet No. 11: Vernal Pike Cross Sections Sheet 1
- Sheet No. 12: Vernal Pike Cross Sections Sheet 2
- Sheet No. 13: Crescent Road Cross Sections

PROJECT BPW-2011-30



PROJECT LOCATION SHOWN BY

cityofbloomingtonindiana
DEPARTMENT OF PUBLIC WORKS

CITY OF BLOOMINGTON
LOCATION MAP

SEC 31, T9N, R1W
BLOOMINGTON TOWNSHIP
MONROE COUNTY

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2012
TO BE USED WITH THESE PLANS



PLANS	City of Bloomington Department of Public Works 401 N Morton St Bloomington, IN 47404	(812) 349-3417
PREPARED BY:		PHONE NUMBER
CERTIFIED BY:	<i>Joyce A. Williams</i>	10/5/11 DATE
APPROVED FOR LETTING:	<i>Joyce A. Williams</i>	10/5/11 DATE

SHEETS		
1	of	13
PROJECT		
BPW-2011-30		

QUANTITY

5		5	
7		3	
6		3	
3		3	
4		5	
2		5	
0		6	
2		38	
2		23	
3		2	
3		1	
5			
5			

PHASE I DESCRIPTION

VERNAL PIKE SHALL BE CLOSED FROM STATION 9+50 TO STATION 11+00. ALL WORK ON VERNAL PIKE BETWEEN THOSE STATIONS AND THE WORK ON CRESCENT ROAD NEW ALIGNMENT SHALL BE COMPLETED IN THIS PHASE. CRESCENT ROAD SHALL HAVE ACCESS TO VERNAL PIKE DURING THIS PHASE. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED DURING ALL PHASES.

PHASE II DESCRIPTION

VERNAL PIKE SHALL BE CLOSED FROM STATION 9+50 TO STATION 15+00. CRESCENT ROAD SHALL BE CLOSED FROM STATION 1+70 TO STATION 3+56. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED DURING ALL PHASES.

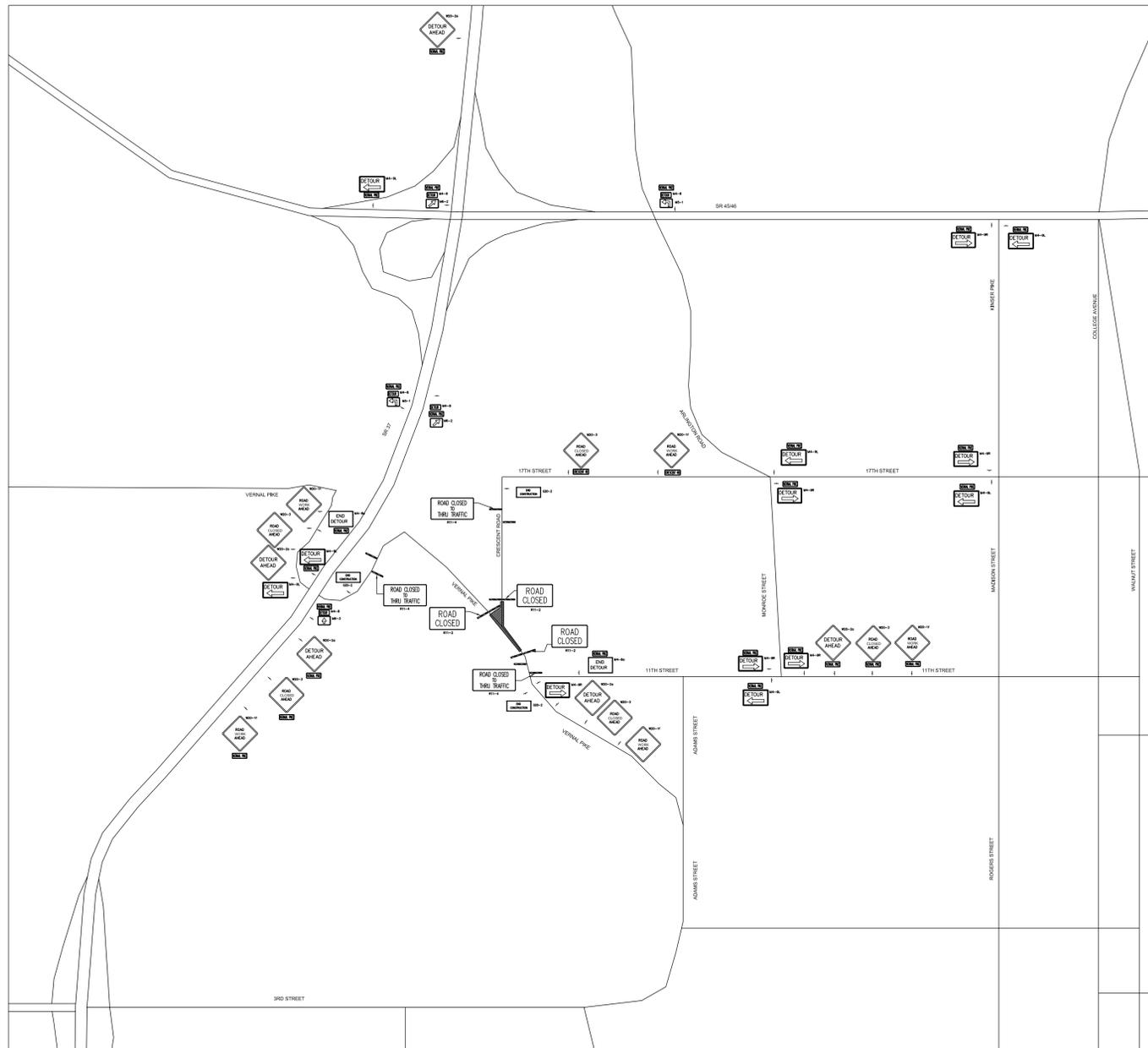
DETOUR MAP IS SHOWN FOR PHASE II WITH FULL CLOSURE. PHASE I SHALL BE THE SAME WITH THE FOLLOWING EXCEPTIONS:

1. TYPE III BARRICADES BLOCKING VERNAL PIKE SHALL BE PLACED IMMEDIATELY NORTH AND WEST OF THE EXISTING CRESCENT ALIGNMENT TO ALLOW ACCESS TO CRESCENT ROAD. THE TYPE III BARRICADES OFFSET TO ALLOW LOCAL TRAFFIC SHALL BE PLACED AS SHOWN JUST NORTH AND WEST OF THE INTERSECTION OF VERNAL PIKE AND 11TH STREET
2. TYPE III BARRICADES ON CRESCENT ROAD SHALL NOT BE PLACED UNTIL PHASE II.
3. SIGNS "ROAD CLOSED", "ROAD CLOSED THRU TRAFFIC", AND "ROAD CLOSED AHEAD" SHALL NOT BE PLACED UNTIL PHASE II.

STAGING AREA

CONTRACTOR MAY USE THE ADJACENT CITY-OWNED PARCEL FOR STAGING AS NEEDED. THIS PARCEL IS ADJACENT TO THE NORTH AND EAST SIDE OF VERNAL AND THE WEST SIDE OF CRESCENT. ALL DISTURBED GROUND SHALL BE RESTORED AFTER CONSTRUCTION.

DETOUR MAP



General Notes



Joyce A. Williams 10/5/11

No.	Revision/Issue	Date

Firm Name and Address

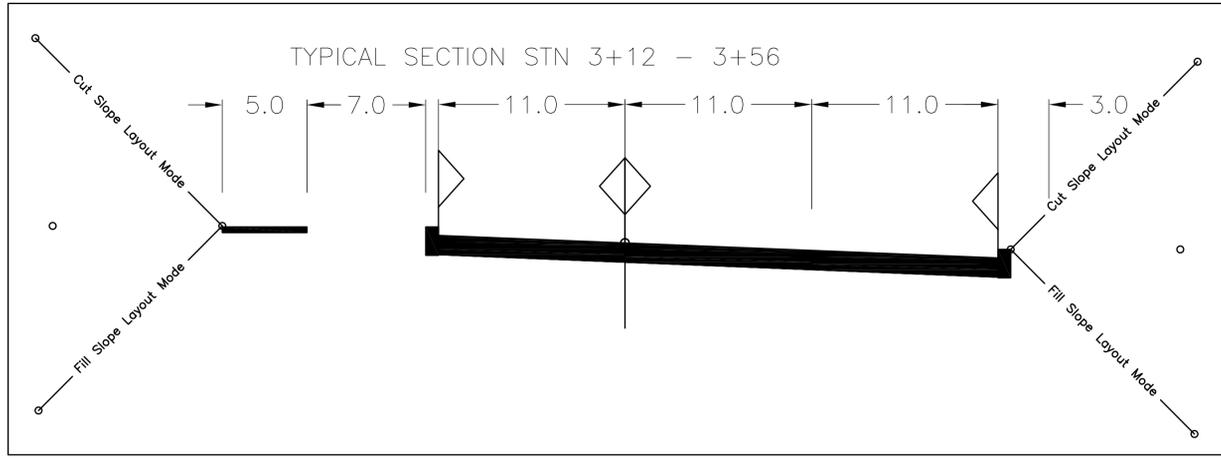
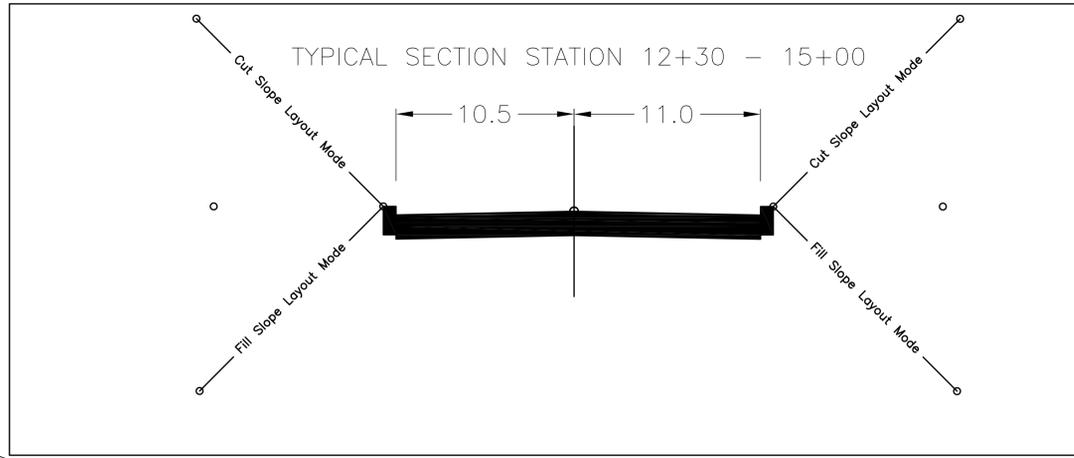
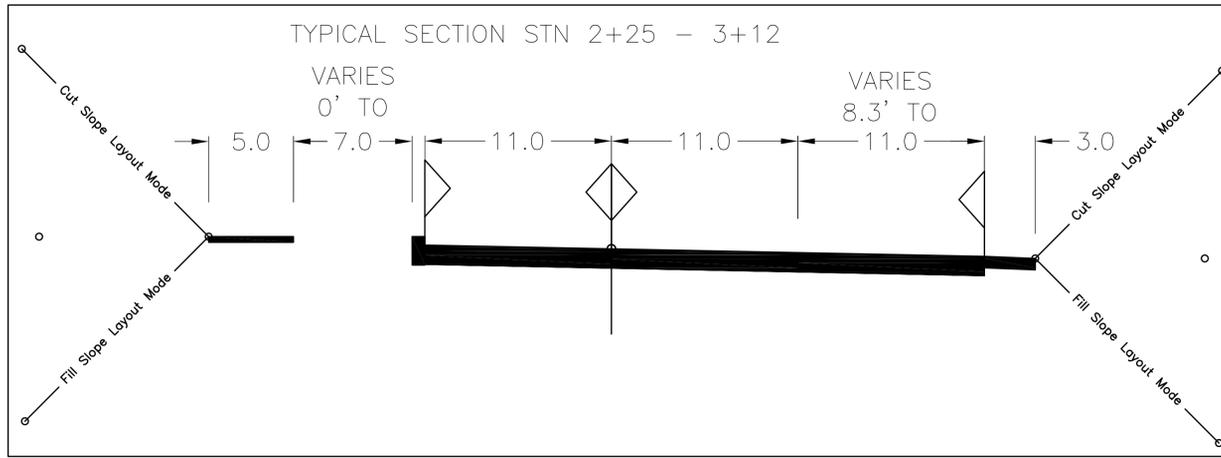
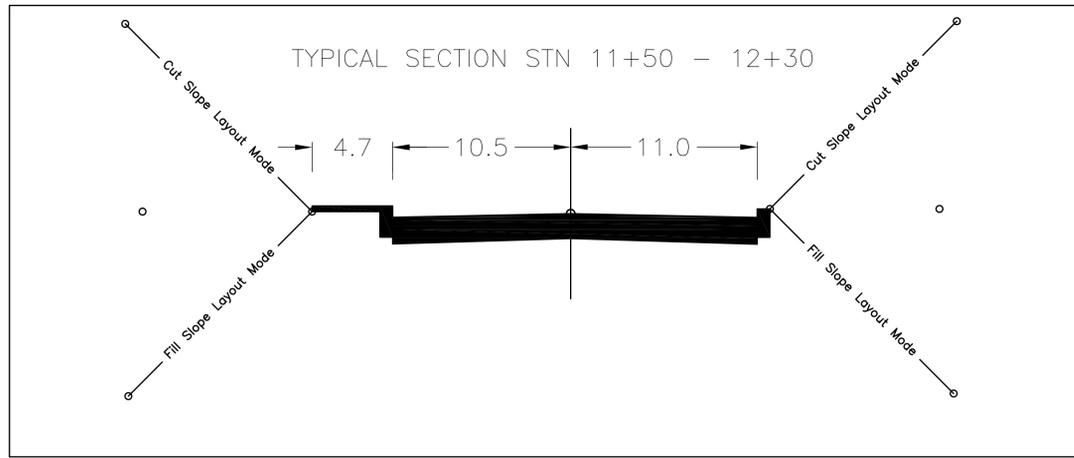
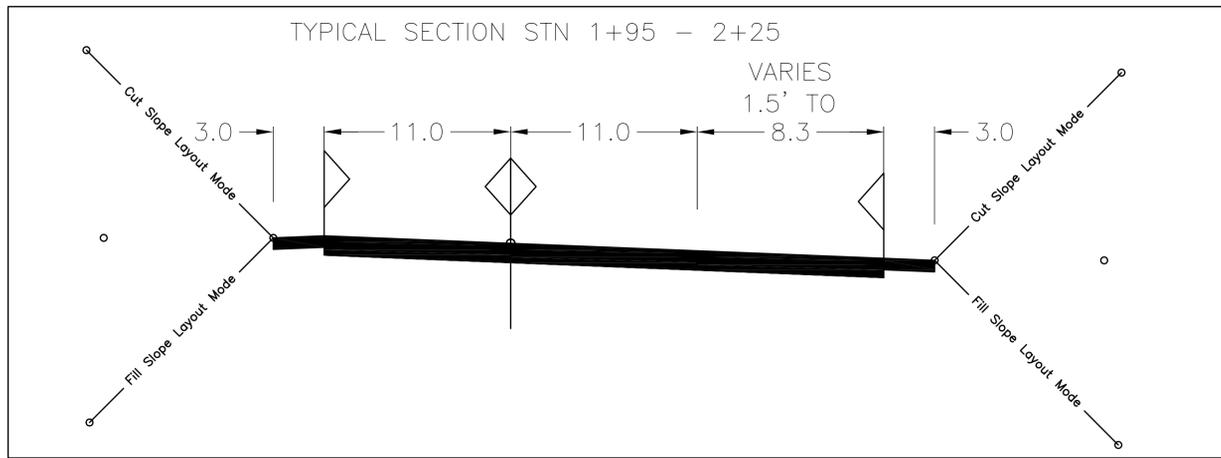
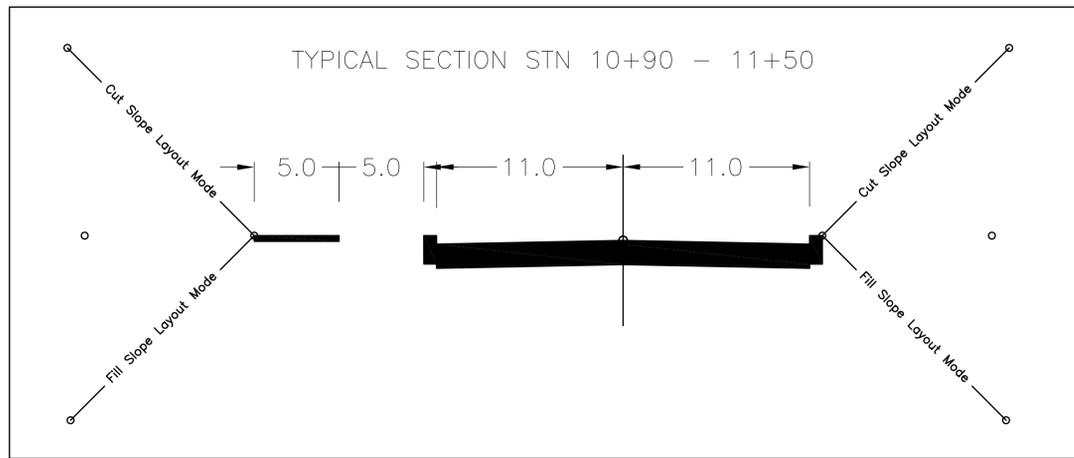
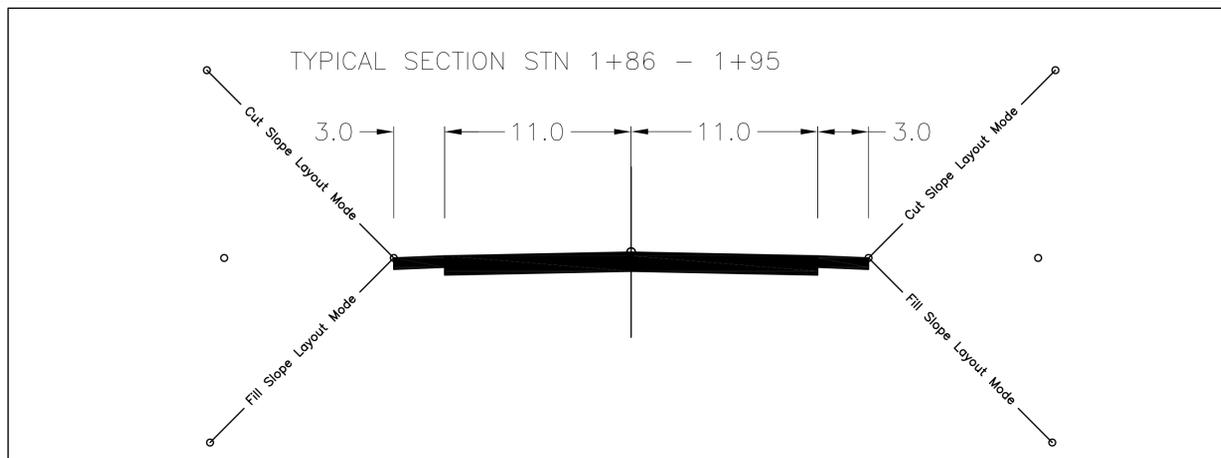
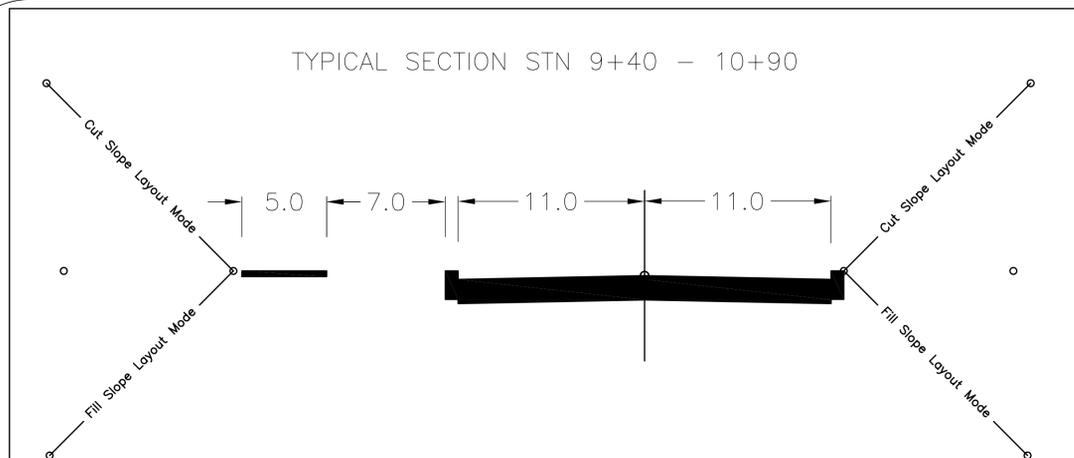
CITY OF BLOOMINGTON
401 N. MORTON ST
BLOOMINGTON, IN 47404

CITY OF BLOOMINGTON

Project Name and Address

VERNAL PIKE AND
CRESCENT ROAD
INTERSECTION IMPROVEMENT

Project VERNAL/CRESCENT	Sheet 2
Date 10/5/2011	
Scale NTS	



General Notes



No.	Revision/Issue	Date
2	Revised pavement depths	10/4/11
1	Updated sheet number	10/4/11

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BLOOMINGTON, IN
47404

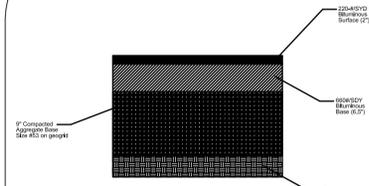
CITY OF BLOOMINGTON

Project Name and Address

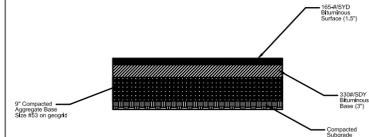
VERNAL PIKE AND
CRESCENT ROAD
INTERSECTION IMPROVEMENT

Project	VERNAL/CRESCENT	Sheet	3
Date	10/4/2011		
Scale	1" = 5'		

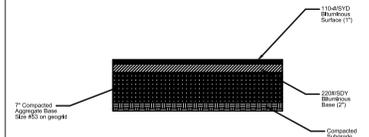
PAVEMENT DETAILS



Pavement Section P1: Vernal Pike



Pavement Section P2: Crescent Road

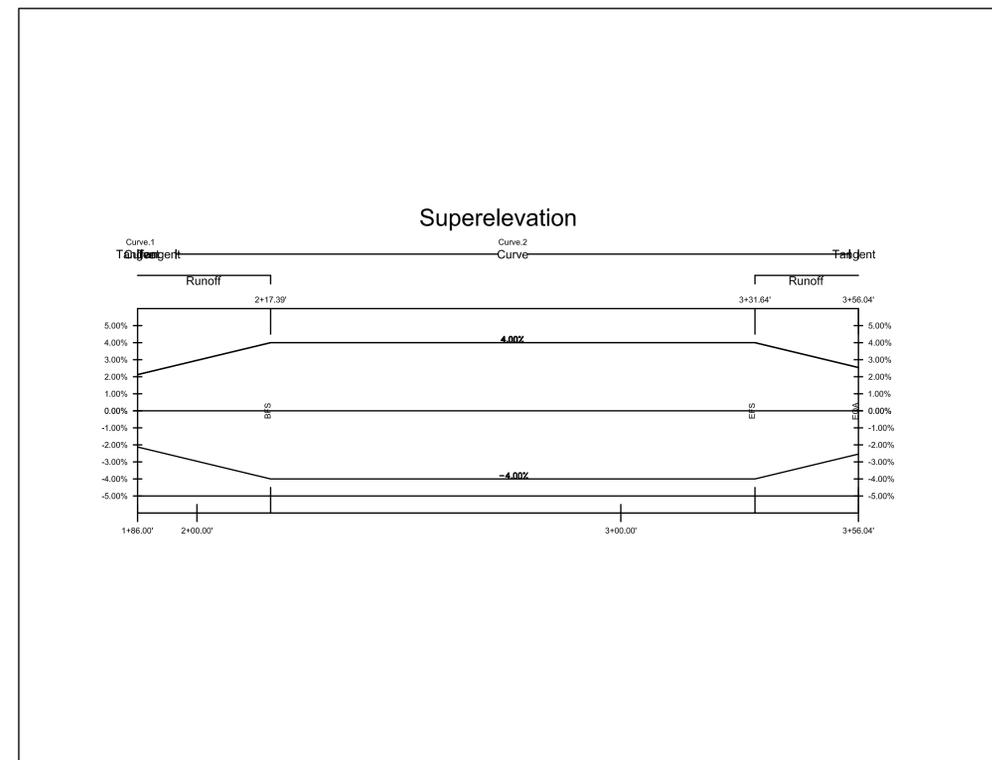


Pavement Section P3: Driveways

PROPOSED ITEMS LEGEND

- (P1) P1 FULL DEPTH PAVEMENT FOR ARTERIAL ROAD
220#/SY HMA SURFACE ON
660#/SY HMA BASE ON
SUBGRADE TREATMENT TYPE IV
- (P2) P2 FULL DEPTH PAVEMENT FOR LOCAL ROAD
165#/SY HMA SURFACE ON
330#/SY HMA BASE ON
SUBGRADE TREATMENT TYPE IV
- (P3) P3 FULL DEPTH PAVEMENT FOR LOCAL ROAD
110#/SY HMA SURFACE ON
220#/SY HMA BASE ON
SUBGRADE TREATMENT TYPE IV
- (P4) P4 RESURFACING SECTION HMA PAVEMENT
220#/SY HMA SURFACE ON TACK COAT
- (D1) D1 CLASS 1 DRIVE, 6" PCC ON
6" COMPACTED AGGREGATE BASE No53s
- (D2) D2 CLASS 2 DRIVE, 6" PCC ON
6" COMPACTED AGGREGATE BASE No53s
- (D3) D3 CLASS 3 DRIVE, 9" PCC ON
6" COMPACTED AGGREGATE BASE No53s
- (D4) D4 CLASS 4 DRIVE, 9" PCC ON
6" COMPACTED AGGREGATE BASE No53s
- (C) C TYPE C SIDEWALK CURB RAMP
- (S1) S1 5 FOOT SIDEWALK
- (S2) S2 4.75 FOOT COMBINED SIDEWALK AND CURB
- (G) G SODDING, NURSERY

SUPERELEVATION DETAILS



General Notes



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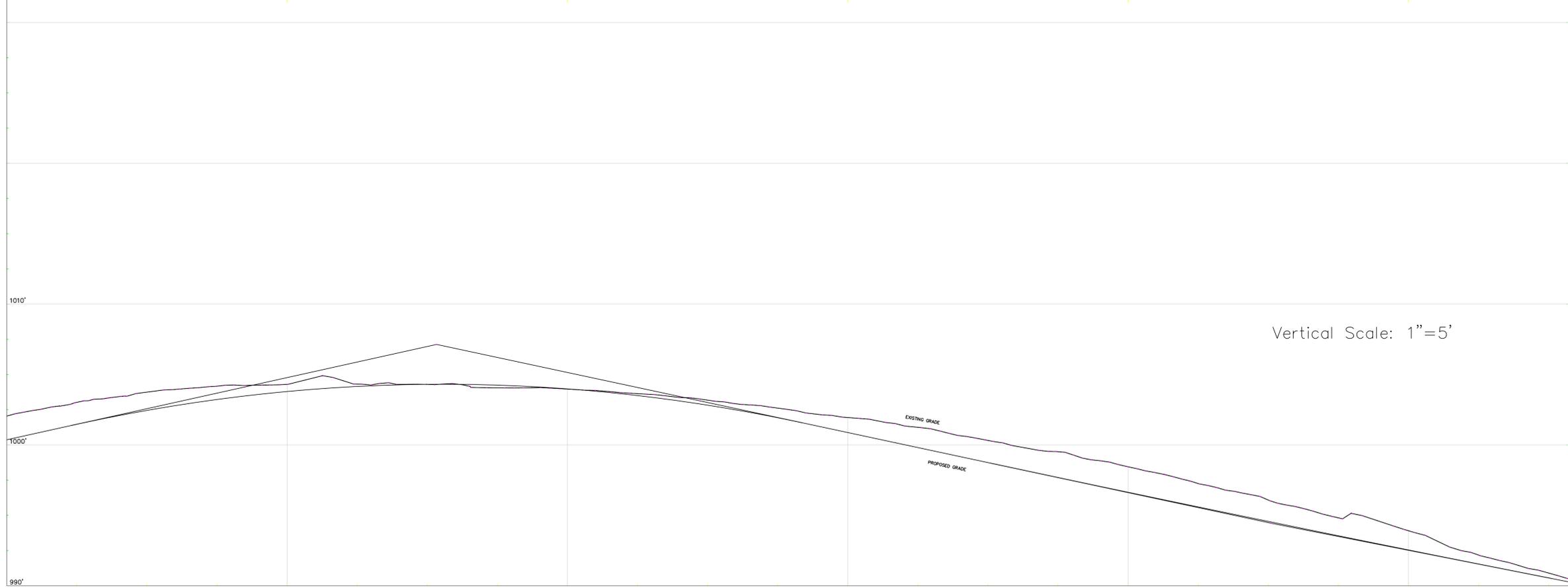
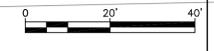
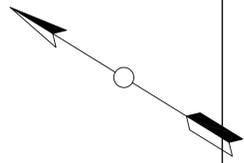
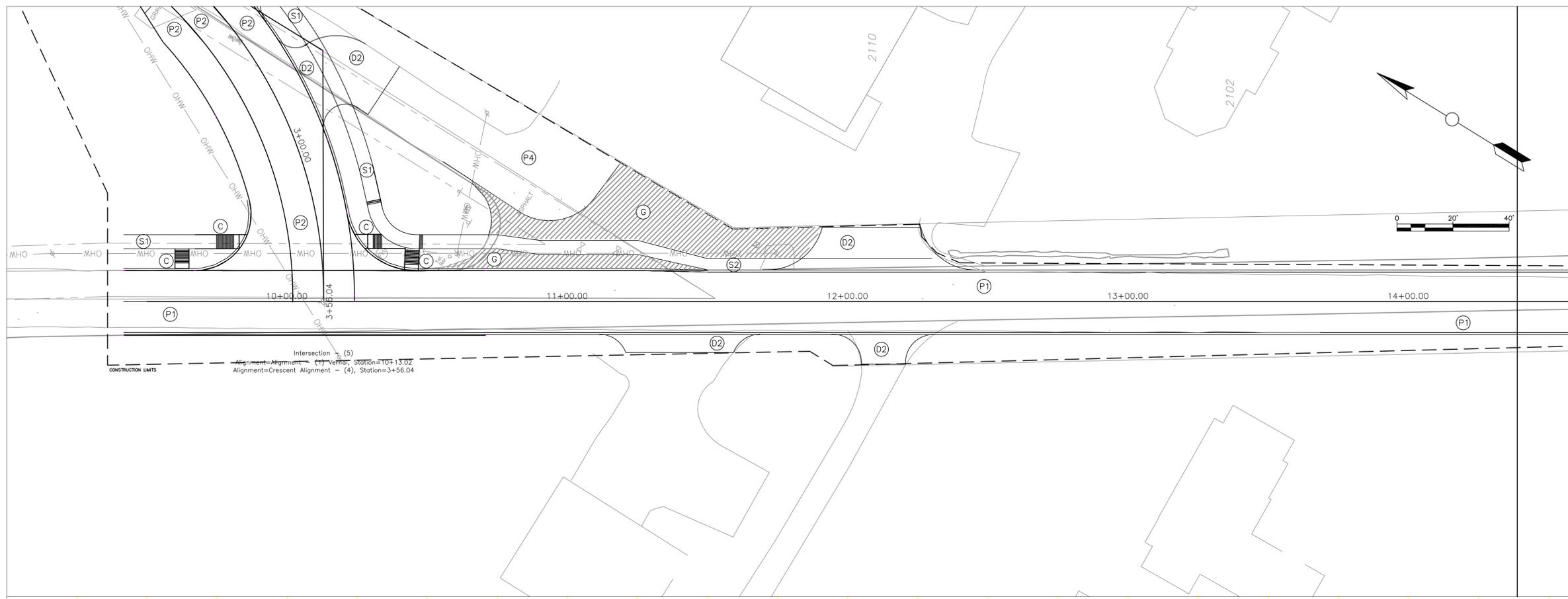
2	Revised pavement depths	10/4/11
1	Updated sheet number	10/4/11
No.	Revision/Issue	Date

Firm Name and Address
 CITY OF BLOOMINGTON
 401 N. MORTON ST
 BLOOMINGTON, IN
 47404

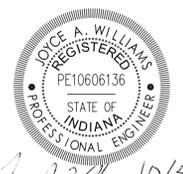
 CITY OF BLOOMINGTON

Project Name and Address
 VERNAL PIKE AND
 CRESCENT ROAD
 INTERSECTION IMPROVEMENT

Project VERNAL/CRESCENT	Sheet 4
Date 10/4/2011	
Scale 1" = 20'	



General Notes



Joyce A. Williams 10/5/11

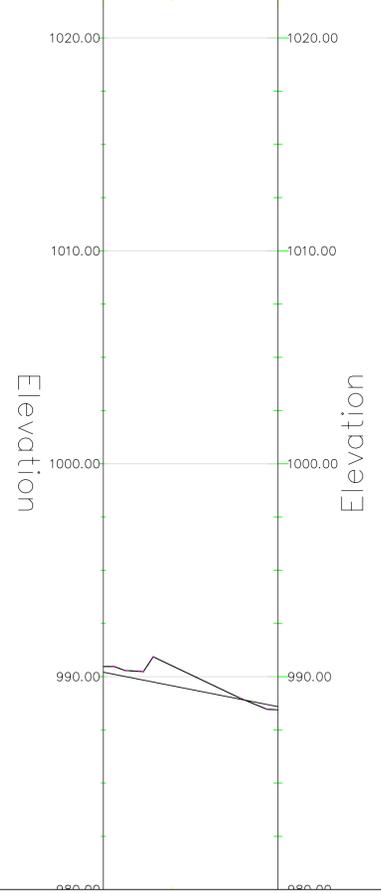
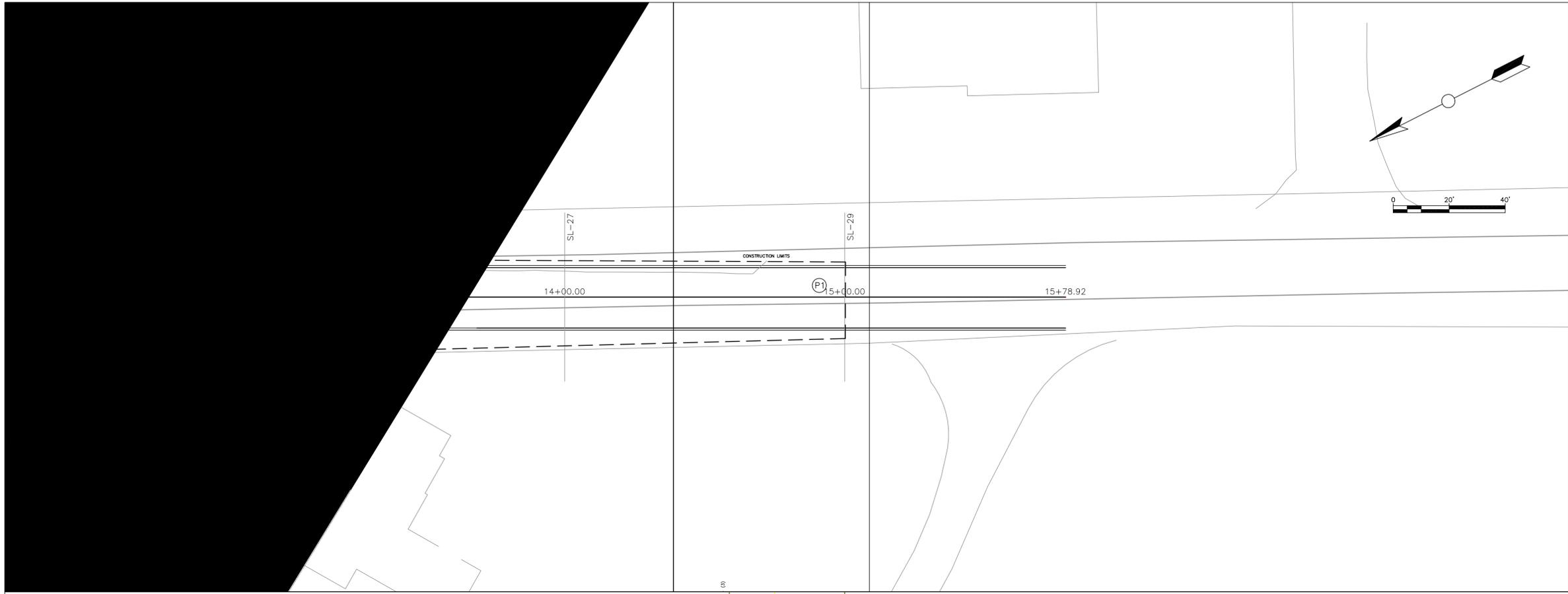
No.	Revision/Issue	Date

Firm Name and Address
 CITY OF BLOOMINGTON
 401 N. MORTON ST
 BLOOMINGTON, IN
 47404



Project Name and Address
 VERNAL PIKE AND
 CRESCENT ROAD
 INTERSECTION IMPROVEMENTS

Project VERNAL/CRESCENT	Sheet 5
Date 10/4/2011	
Scale 1" = 20'	



Vertical Scale: 1"=5'

General Notes

Joyce A. Williams 10/5/11

2	Revised vertical scale	10/4/11
1	Updated Sheet Number	10/4/11
No.	Revision/Issue	Date

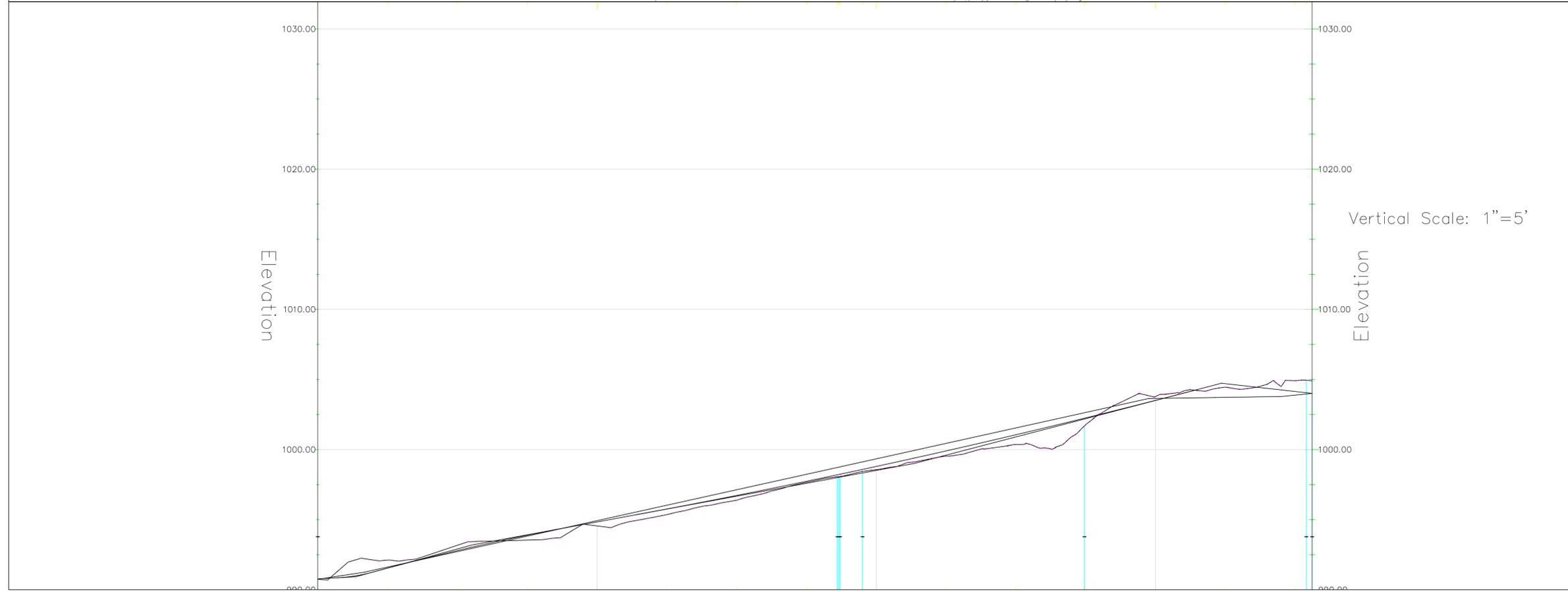
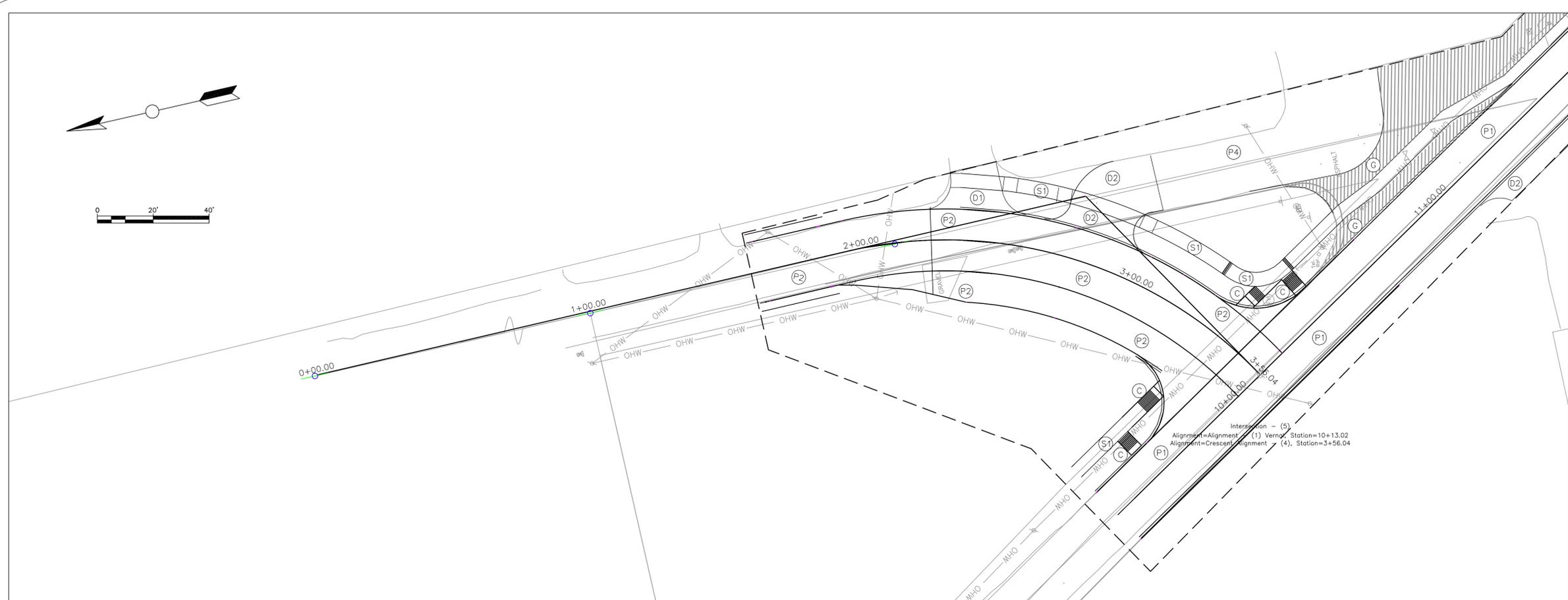
Firm Name and Address

CITY OF BLOOMINGTON
401 N. MORTON ST
BLOOMINGTON, IN
47404

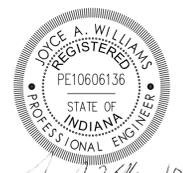
Project Name and Address

VERNAL PIKE AND
CRESCENT ROAD
INTERSECTION IMPROVEMENTS

Project VERNAL/CRESCENT	Sheet
Date 10/4/2011	6
Scale 1" = 20'	



General Notes



Joyce A. Williams 10/5/11

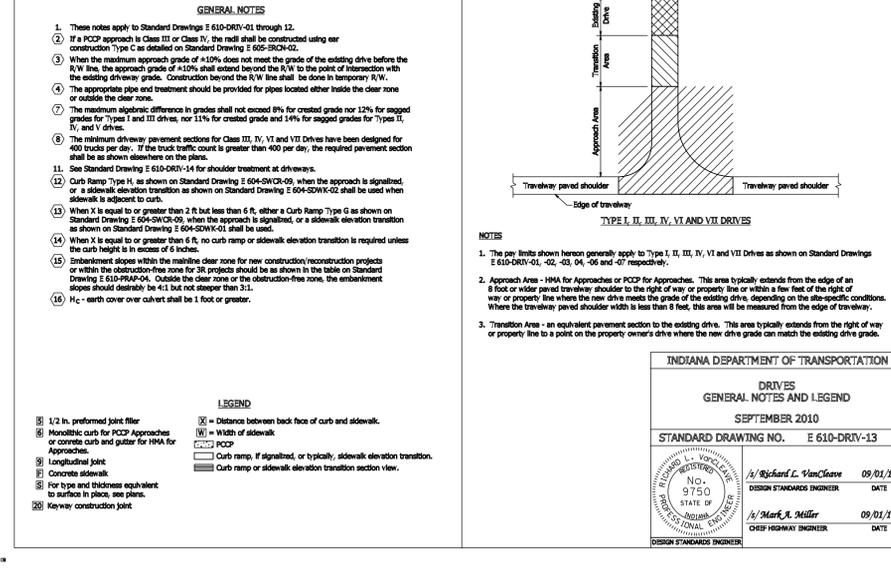
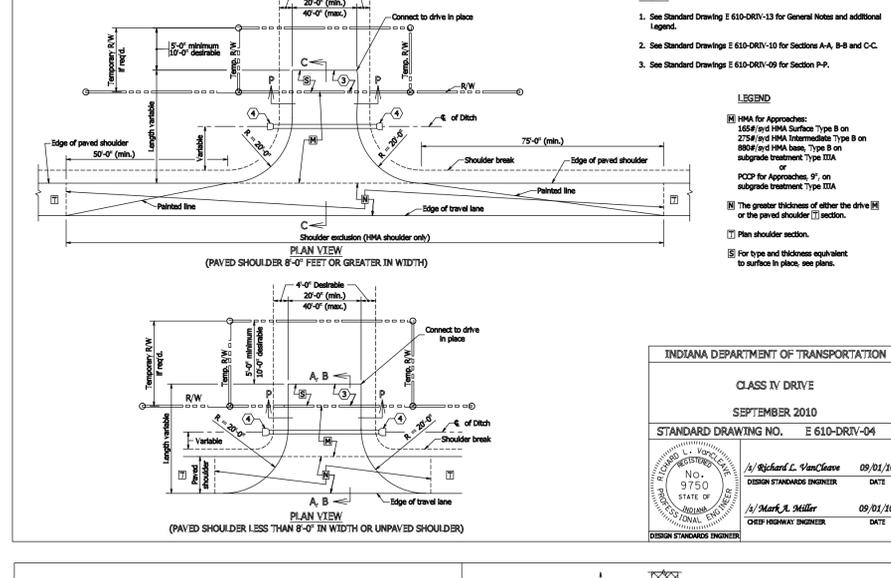
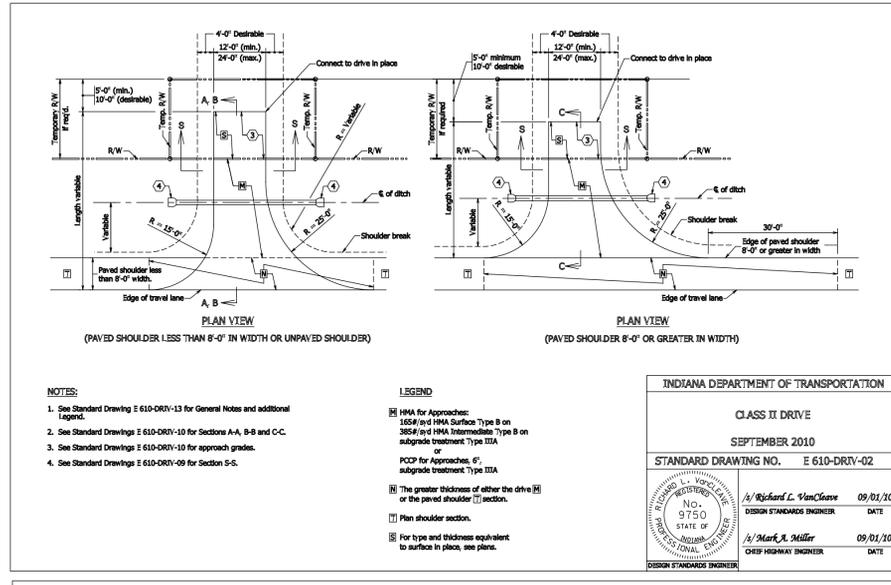
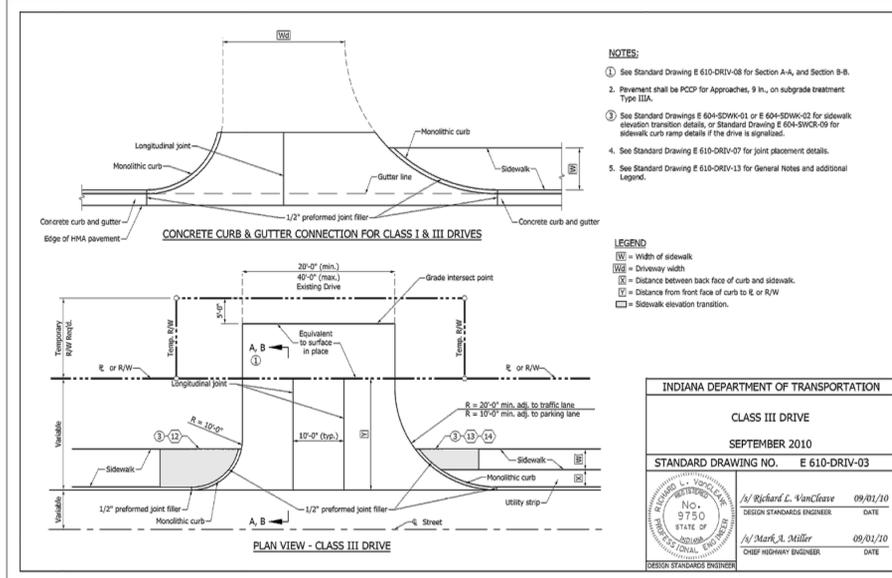
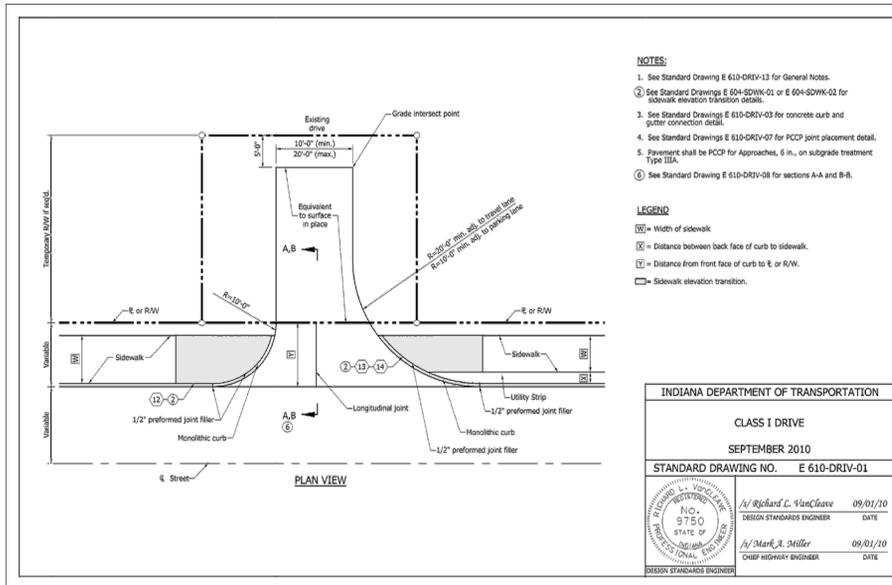
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6	Revised sidewalk terminus N	10/4/11
5	Added curb ramp notation	10/4/11
4	Revised orientation	10/4/11
3	Revised vertical scale	10/4/11
2	Removed excess lines	10/4/11
1	Updated sheet number	10/4/11

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Project Name and Address
 VERNAL PIKE AND
 CRESCENT ROAD
 INTERSECTION IMPROVEMENTS

Project VERNAL/CRESCENT	Sheet 7
Date 10/4/2011	
Scale 1" = 20'	



General Notes

INDIANA DEPARTMENT OF TRANSPORTATION
CLASS II DRIVE
 SEPTEMBER 2010
 STANDARD DRAWING NO. E 610-DRIV-02

INDIANA DEPARTMENT OF TRANSPORTATION
CLASS III DRIVE
 SEPTEMBER 2010
 STANDARD DRAWING NO. E 610-DRIV-03

INDIANA DEPARTMENT OF TRANSPORTATION
CLASS IV DRIVE
 SEPTEMBER 2010
 STANDARD DRAWING NO. E 610-DRIV-04

INDIANA DEPARTMENT OF TRANSPORTATION
DRIVES
 GENERAL NOTES AND LEGEND
 SEPTEMBER 2010
 STANDARD DRAWING NO. E 610-DRIV-13

Project Name and Address
VERNAL PIKE AND CRESCENT ROAD INTERSECTION IMPROVEMENT

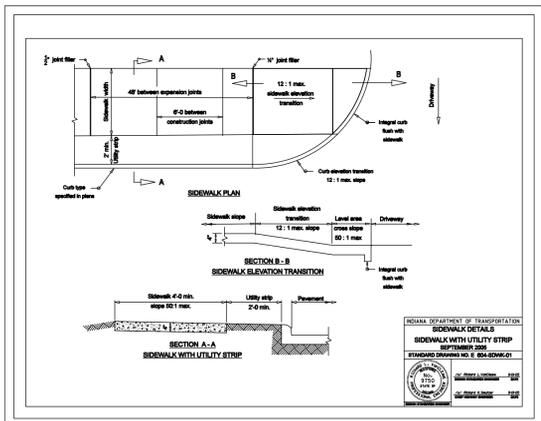
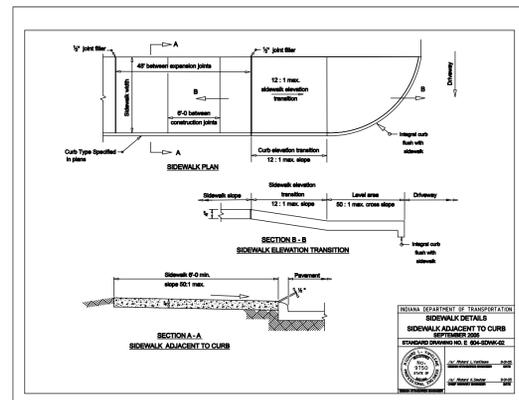
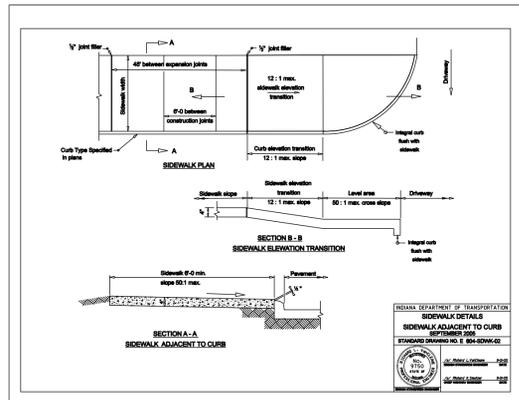
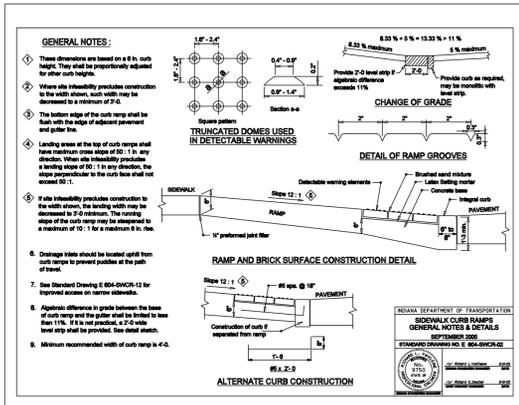
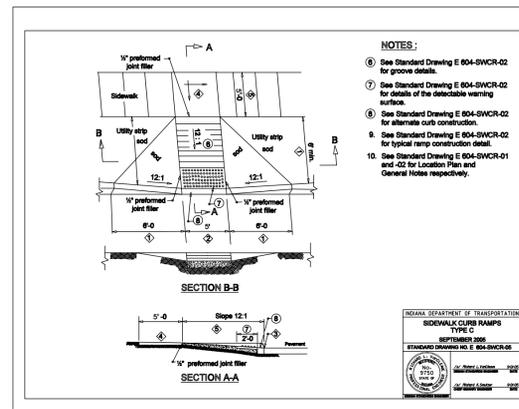
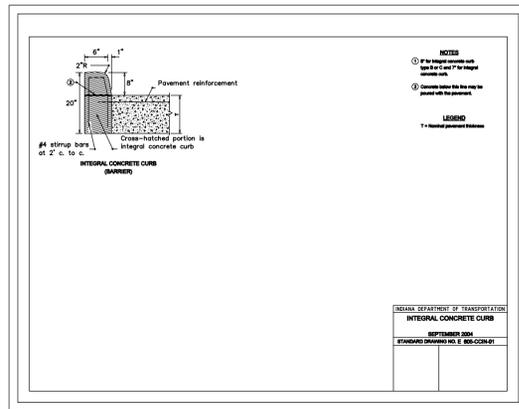
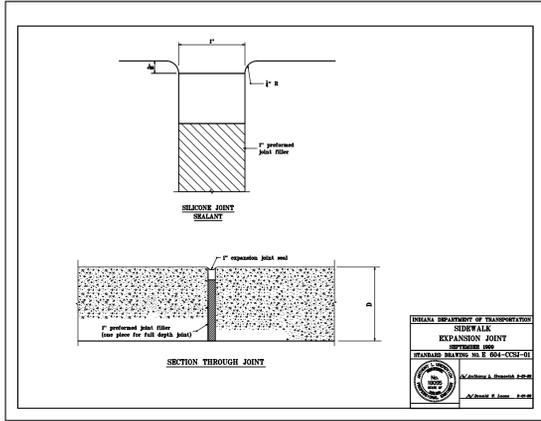
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 Date: 10/4/2011
 Scale: 1" = 40'

Sheet: 9

Professional Engineer Seal: JOYCE A. WILLIAMS, REGISTERED PROFESSIONAL ENGINEER, STATE OF INDIANA, PE10606136, dated 10/5/11.

2	Updated sheet number	10/4/11
1	Corrected partial detail	10/4/11
No.	Revision/Issue	Date

Firm Name and Address
 CITY OF BLOOMINGTON
 401 N. MORTON ST
 BLOOMINGTON, IN 47404



General Notes



2	Updated sheet number	10/4/11
1	Added sidewalk detail	10/4/11
No.	Revision/Issue	Date

Firm Name and Address

CITY OF BLOOMINGTON
 401 N. MORTON ST
 BLOOMINGTON, IN
 47404

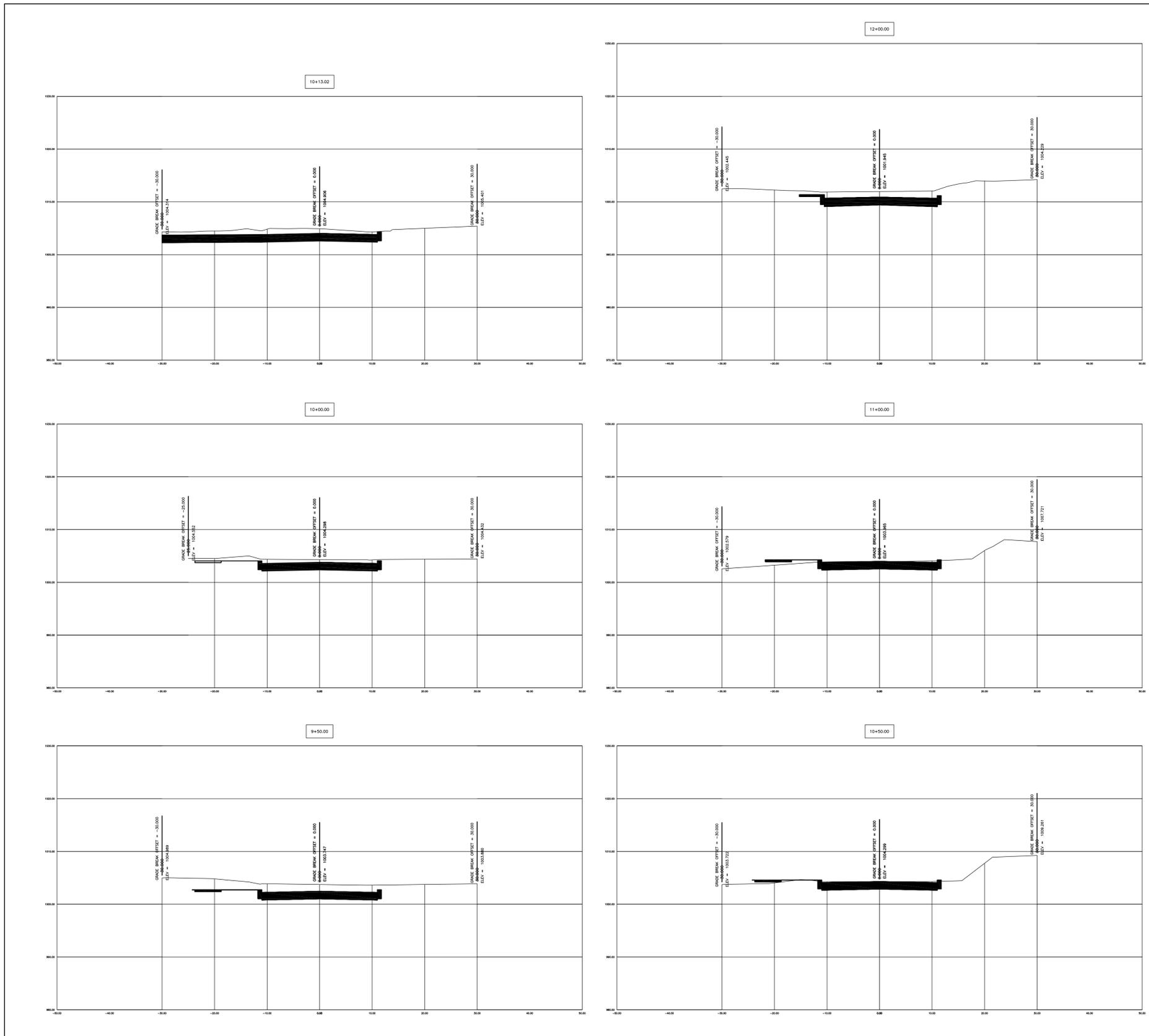
CITY OF BLOOMINGTON

Project Name and Address

VERNAL PIKE AND
 CRESCENT ROAD
 INTERSECTION IMPROVEMENT

Project	VERNAL/CRESCENT	Sheet	10
Date	10/4/2011	Scale	NTS

Cross Sections – Vernal Pike – 9+50 to 12+00



General Notes



Joyce A. Williams 10/5/11

No.	Revision/Issue	Date

Firm Name and Address
 CITY OF BLOOMINGTON
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 BLOOMINGTON, IN
 47404

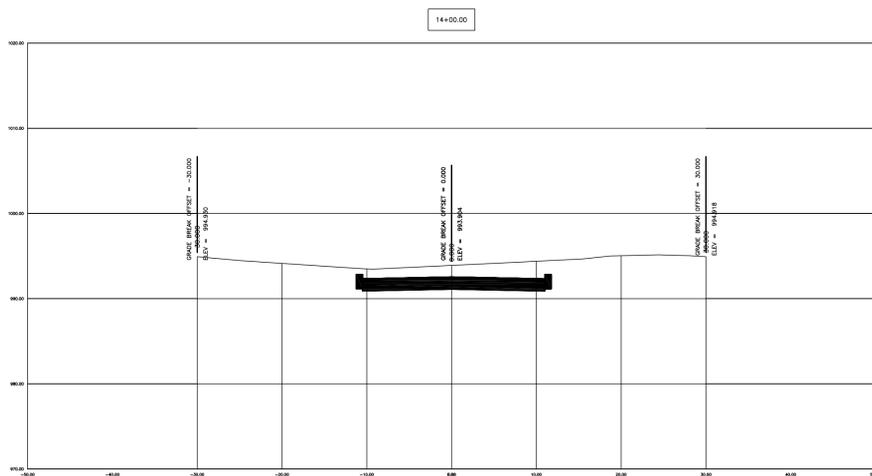
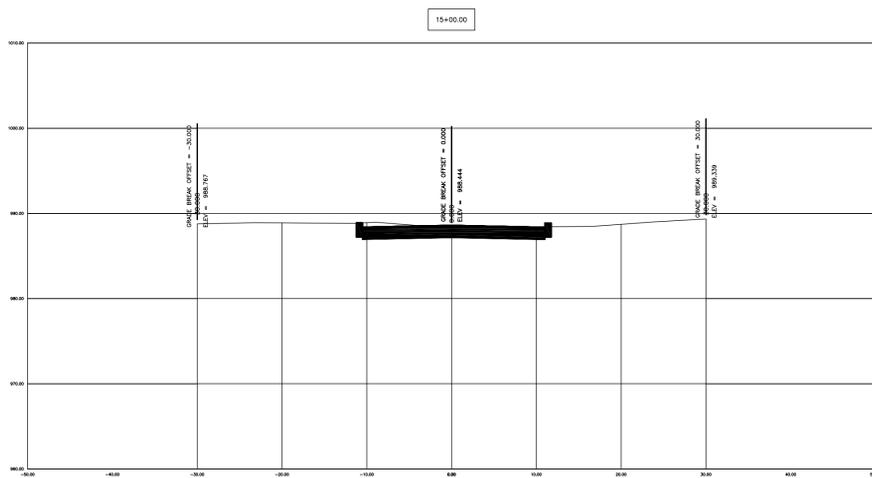
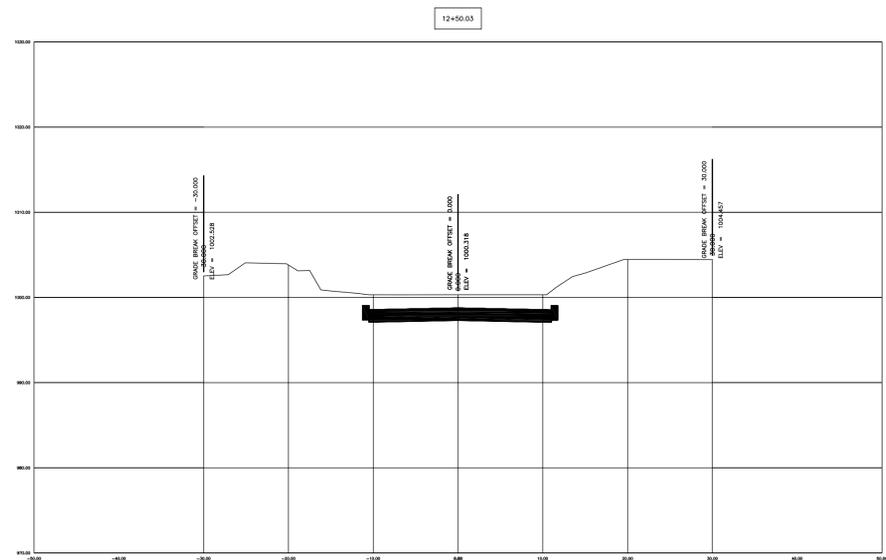
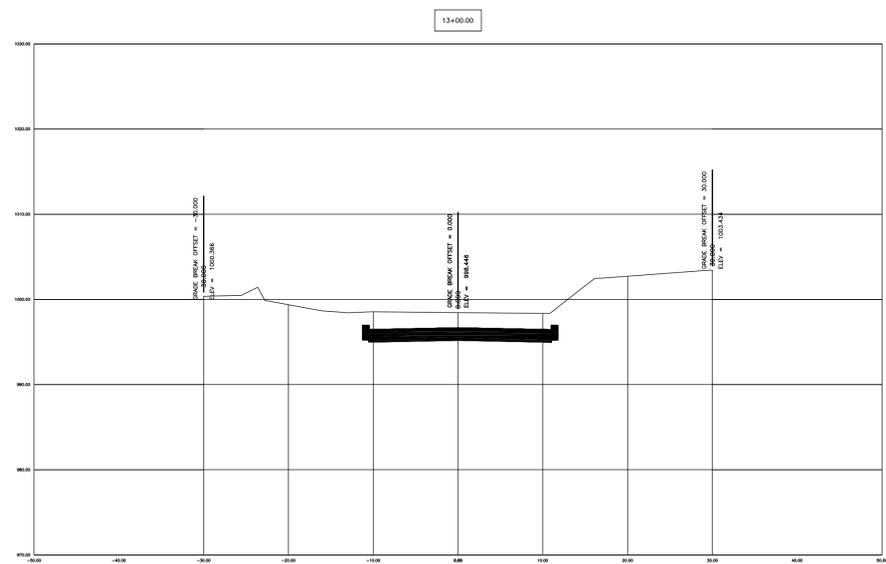


CITY OF BLOOMINGTON

Project Name and Address
 VERNAL PIKE AND
 CRESCENT ROAD
 INTERSECTION IMPROVEMENTS

Project VERNAL/CRESCENT	Sheet 11
Date 10/4/2011	
Scale 1" = 10'	

Cross Sections – Vernal Pike – 12+50 to 15+00



General Notes



Joyce A. Williams 10/5/11

No.	Revision/Issue	Date

Firm Name and Address

CITY OF BLOOMINGTON
401 N. MORTON ST
BLOOMINGTON, IN
47404



CITY OF BLOOMINGTON

Project Name and Address

VERNAL PIKE AND
CRESCENT ROAD
INTERSECTION IMPROVEMENTS

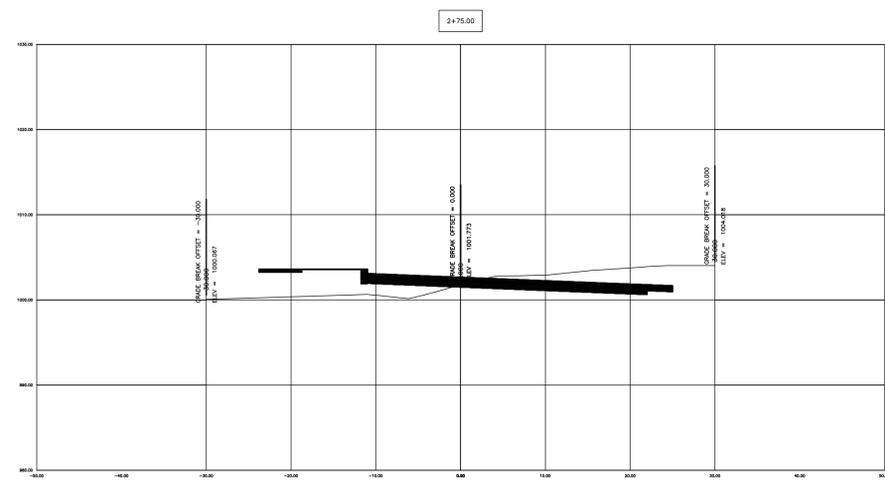
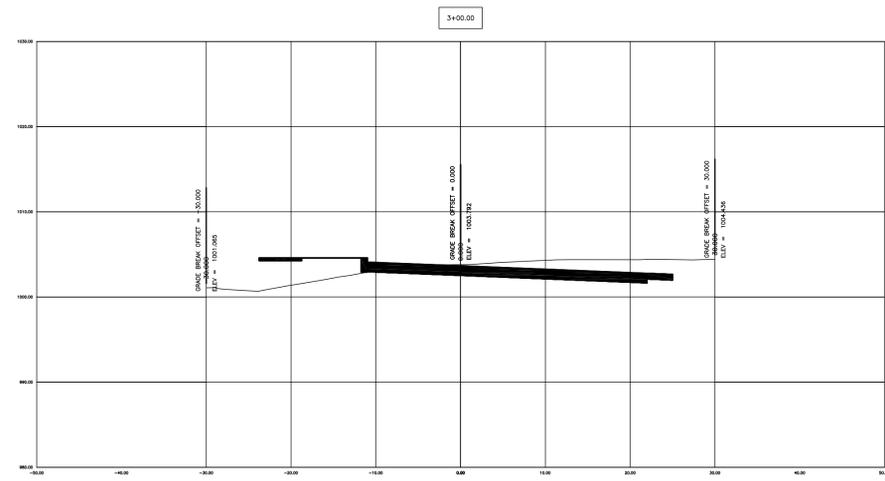
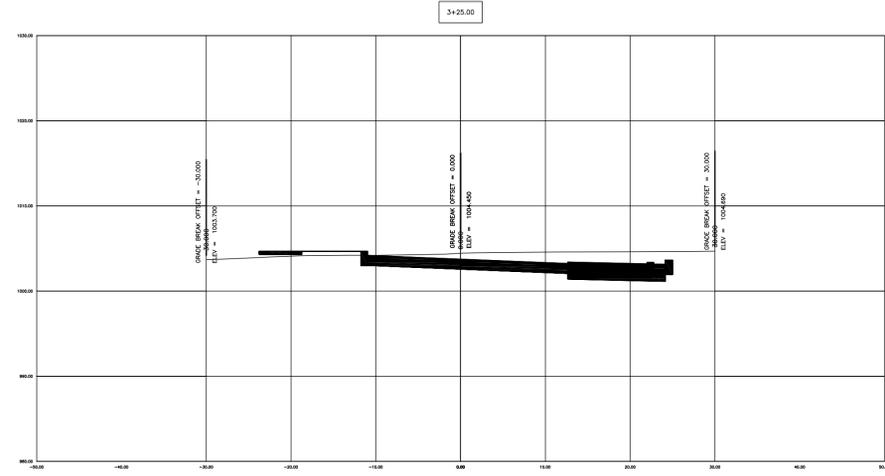
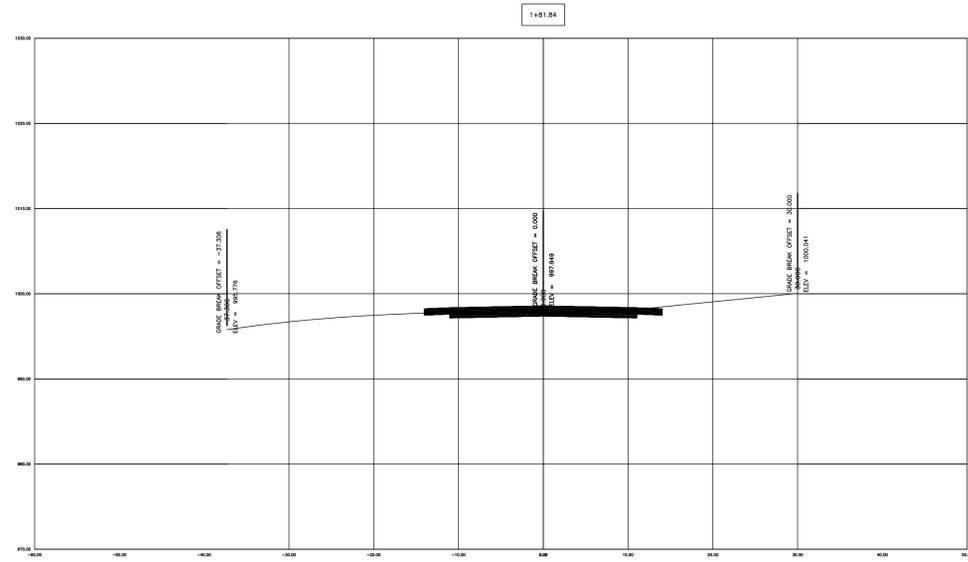
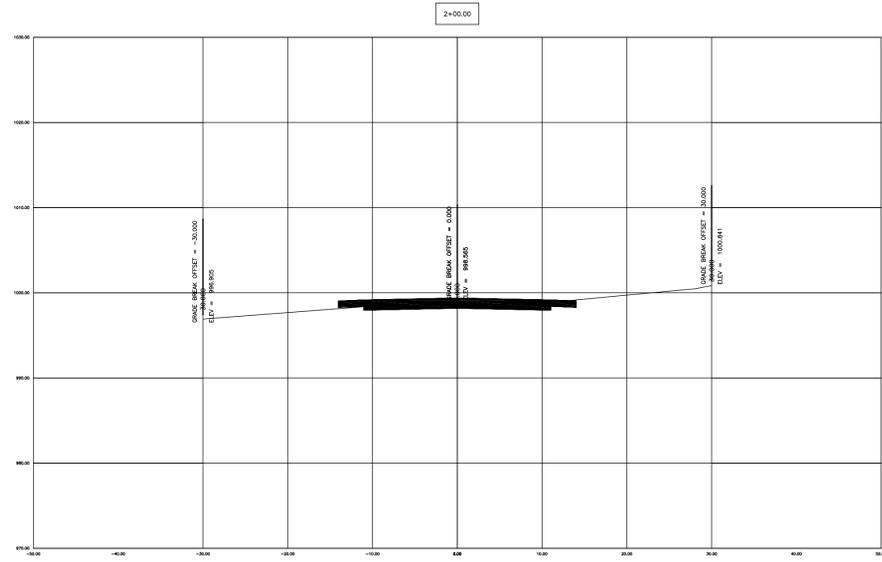
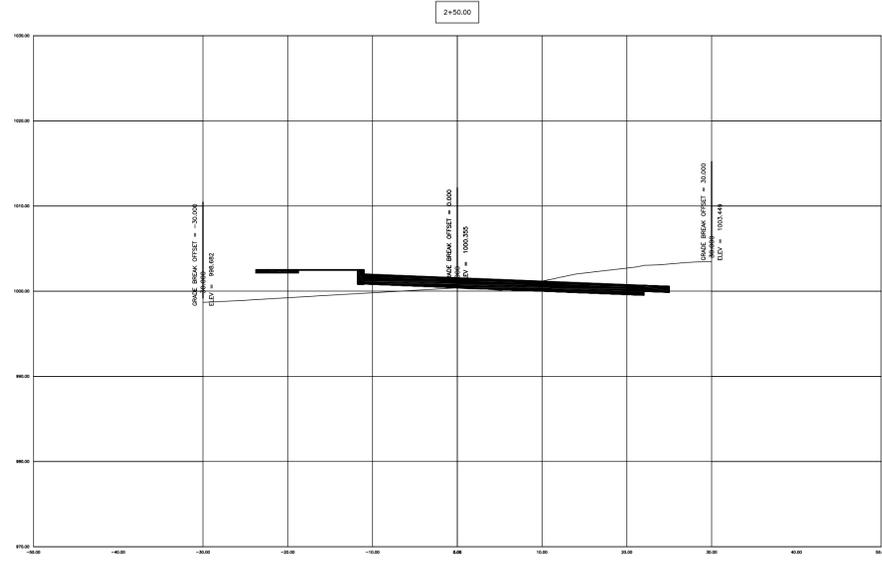
Project VERNAL/CRESCENT Sheet

Date 10/4/2011

Scale 1" = 10'

12

Cross Sections – Crescent Road – 1+81.84 to 3+25



General Notes

No.	Revision/Issue	Date

Firm Name and Address

CITY OF BLOOMINGTON
401 N. MORTON ST
BLOOMINGTON, IN
47404



CITY OF BLOOMINGTON

Project Name and Address

VERNAL PIKE AND
CRESCENT ROAD
INTERSECTION IMPROVEMENTS

Project: VERNAL/CRESCENT
Date: 10/4/2011
Scale: 1" = 10'

Sheet: 13



Joyce A. Williams 10/5/11