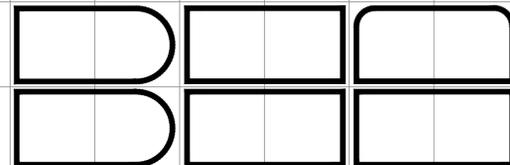


# PROPOSED: Alley Resurfacing between 5th & 6th Streets

5th, 6th & MORTON STREETS  
BLOOMINGTON, IN 47404

### UTILITY CONTACT INFORMATION

<b>GAS</b> VECTREN 205 S. MADISON ST. BLOOMINGTON, IN 47401 DOUG ANDERSON (812)330-4009	<b>SEWER AND WATER</b> CITY OF BLOOMINGTON UTILITIES 600 E. MILLER DR. BLOOMINGTON, IN 47402 NANCY AXSOM (812)349-3689	<b>ELECTRIC</b> DUKE ENERGY 1619 W. DEFFENBAUGH ROAD KOKOMO, INDIANA 46902 JIM SHIELDS (317)375-2071
<b>TELEPHONE</b> AT&T P.O. BOX 56 BLOOMINGTON, IN 47402 BRENT McCABE (812)334-4521	<b>CABLE TELEVISION</b> COMCAST 2450 SOUTH HENDERSON STREET BLOOMINGTON, IN 47404 SCOTT TEMPLETON (812)355-7822	<b>UNDERGROUND UTILITY LOCATION</b> INDIANA UNDERGROUND PLANT PROTECTION 1-(800)382-5544



**BYNUM FANYO & ASSOCIATES, INC.**  
528 North Walnut Street  
Bloomington, Indiana 47404 (812) 332-8030



PROJECT LOCATION

VICINITY/LOCATION MAP  
NOT TO SCALE

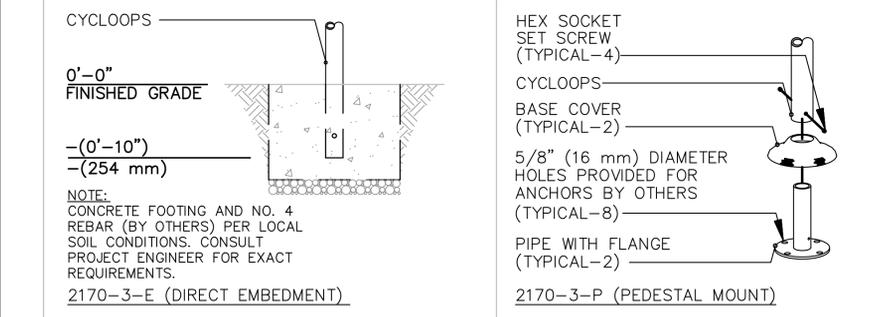
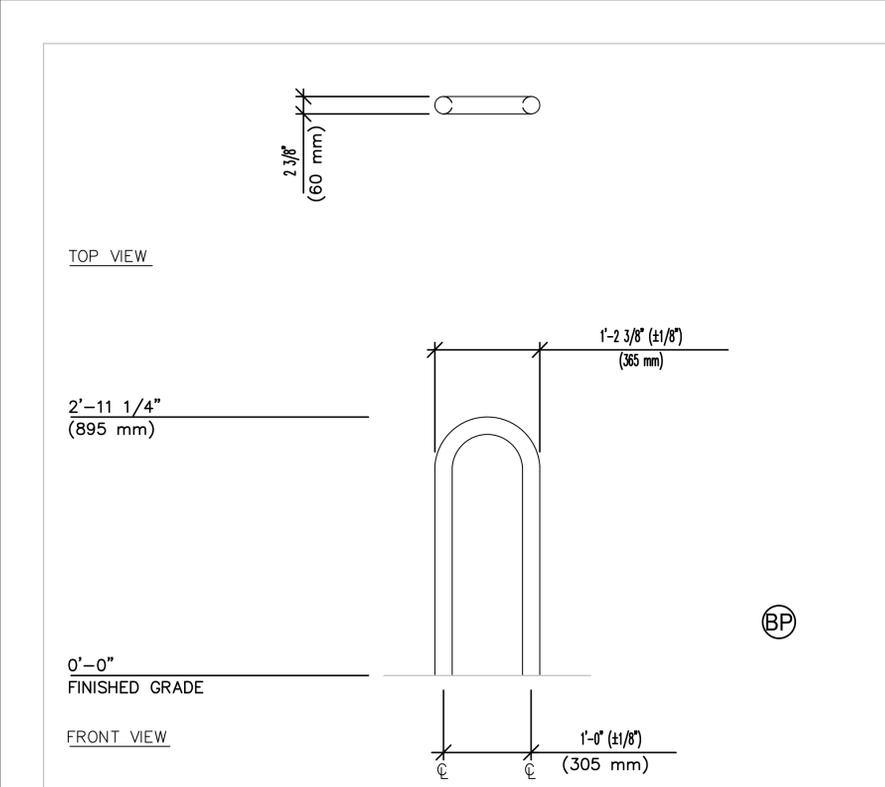
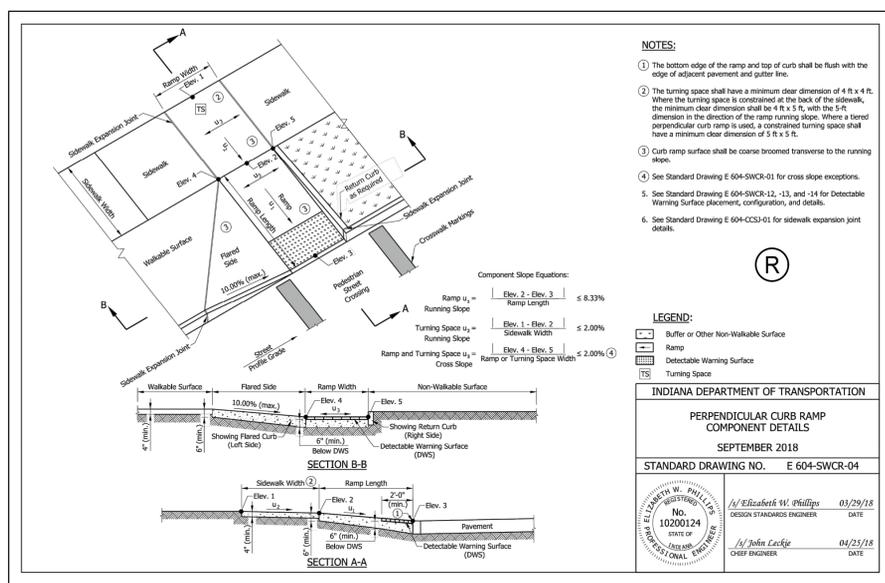
### SHEET INDEX

SHEET NO.	SHEET NO.
C101	GENERAL NOTES & LEGENDS
C201	OVERALL SITE PLAN



architecture  
civil engineering  
planning

<p>OWNER/DEVELOPER: CITY OF BLOOMINGTON 401 N. MORTON ST. BLOOMINGTON, IN 47404</p>	<p>THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES &amp; CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS</p>			<p>Certified By: <i>D. Butler</i> DANIEL J. BUTLER, P.E. IND. REG. NO. 11500284</p>	<p>Revisions</p> <p>5TH &amp; 6TH STREET ALLEY PROJECT NO. 402140</p>
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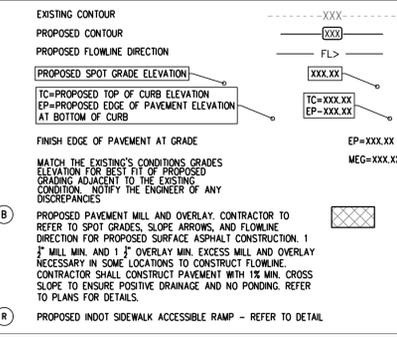
**COLUMBIA CASCADE COMPANY**  
Makers of TimberForm, PipeLine, RePlay, TimberForm 2, InterPlay, CycLoops and CycLoacker Products.

1300 S.W. Sixth Avenue, Suite 310 Telephone 503/223-1157  
Portland, Oregon 97201-3464 Facsimile 503/223-4530  
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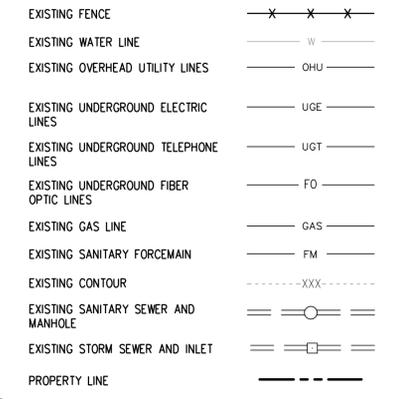
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**Drawn by:** AT  
**07-04-10**  
**OK'd by:**

**Sheet** 1 of 1

**SITE IMPROVEMENT LEGEND**



**EXISTING LEGEND**



THE CURRENT EDITION OF THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG) TO BE USED WITH THESE PLANS FOR ALL RAMPS, SIDEWALKS, AND OTHER PEDESTRIAN FACILITIES. NO SLOPE OF ANY SECTION OF STREET, RAMPS, SIDEWALKS, AND OTHER WALKABLE FACILITIES SHALL BE MORE THAN 8.33% SLOPE LONGITUDINALLY (2% CROSS-SLOPE MAX. FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED) CONTRACTOR WILL BE ASKED TO REMOVE AND REPLACED IF ANY ARE CONSTRUCTED WITH A SLOPE GREATER THAN 8.33% LONGITUDINALLY OR 2% CROSS-SLOPE FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED. COORDINATE WITH ENGINEER BEFORE ANY AREA IS CONSTRUCTED IF ANTICIPATED TO BE IN VIOLATION OF THIS POLICY.

ALL WORK WITHIN EXISTING AND PROPOSED RIGHT-OF-WAY MUST BE CONDUCTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY ALL REQUIRED INSPECTIONS AND TESTS. ALL REQUIRED TESTS SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IS TO BE USED WITH THESE PLANS

NOTE TO CONTRACTOR: CONTRACTOR SHALL FOLLOW THE '2011 INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH REVISIONS 1 & 2 & 3' FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. COORDINATE MAINTENANCE OF TRAFFIC WITH THE CITY OF BLOOMINGTON AND ADJACENT PROPERTY OWNERS.

**PARKING AND PAVEMENT NOTES**

- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES, 1988 EDITION AS AMENDED.
- ALL PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALT PAVEMENT / YELLOW ON CONCRETE PAVEMENT AND SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL CURB RADIUS ARE TO BE 5' UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
- JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOLS.
- CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
- CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE 'MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION' ISSUED BY A.C.C. OF AMERICA, INC. AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.

**GRADING NOTES**

- NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEED OR PLANTED.
- AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.
- ALL AREAS NOT COVERED BY BUILDING OR PAVING ARE TO BE VEGETATED (SEED OR PER LANDSCAPE PLAN).
- UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
- ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. THE LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
- CONTRACTOR SHALL COMPACT AND MAINTAIN A 30,000 SQ. FT. STONEBASE CONSTRUCTION LAYDOWN AREA W/ STONE ACCESS FROM THE CONSTRUCTION ENTRANCE AND STONE ACCESS TO THE BUILDING PAD.
- THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND CANNOT SHOW EVERY ITEM NEEDED FOR A COMPLETE OPERATIONAL STORM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATING STORM SYSTEM.
- ALL FILL SHALL BE FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTION. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT AS DICTATED BY THE TYPE OF FILL MATERIAL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILARLY TRACKED VEHICLE BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENTAGE OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (95 PERCENT OF MAXIMUM DRY DENSITY). IF THE SPECIFIED COMPACTION LIMITS ARE NOT MET, SUCH AREAS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.



**DIAL '811' BEFORE YOU DIG**  
PER INDIANA STATE LAW IC8-1-26.  
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

**GENERAL NOTES**

- BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT STREET, BLOOMINGTON, INDIANA 47404. PHONE (812) 332-8030
- DEVELOPER: CITY OF BLOOMINGTON
- PROJECT ADDRESS: 5TH, 6TH, AND MORTON STREETS, BLOOMINGTON, IN. 47404
- ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
- EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

**ON-SITE UTILITY NOTES**

- ALL WATER PIPE 6" AND LARGER SHALL BE PRESSURE CLASS 350 DIP WATER PIPE CONFORMING TO ALL STATE AND LOCAL STANDARDS.
- WATER MAIN FITTINGS 6" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA/ANSI STANDARD SPECIFICATIONS C153/A21.5.3, LATEST REVISION.
- 2" WATER MAINS SHALL BE SDR-21 (PR200) AND 4" PIPE MAY BE EITHER SDR-21 (PR200) OR C900 (DR-14).
- ALL WATER SERVICE LINES CONNECTING TO 2" PVC MAINS SHALL BE 1" TYPE "K" COPPER. ALL SERVICE LINES FROM MAIN TO METER SHALL BE TYPE "K" COPPER WITH FLARED ENDS.
- MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE BENDS, OFFSETS, TEES, PLUGS, ETC...
- ALL WATER LINE GATE VALVES OTHER THAN AIR RELEASE VALVES AND TAPPING VALVES SHALL BE CAST IRON BODY, FULLY BRONZE MOUNTED, WITH RESILIENT SEAT AND NON-RISING STEM AND SHALL BE MANUFACTURED BY M & H VALVE COMPANY, DARLING VALVE AND MANUFACTURING COMPANY, KENNEDY VALVE COMPANY, OR MUELLER COMPANY.
- FLUSH HYDRANTS SHALL BE PLACED AT THE ENDS OF ALL WATER MAINS AND AT ANY HIGH POINTS IN THE LINE.
- AIR RELEASE VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF WATER MAINS AND SHALL BE VAL-MATIC BRAND AND SHALL INCORPORATE THE OPTIONAL VACUUM-CHECK FEATURE.
- ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN OR MUELLER CENTURION.
- ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE TOP OF PIPE.
- ALL SPRINKLER, DOMESTIC, AND SANITARY LEADS TO THE BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18').
- GRAVITY SANITARY SEWER PIPE 6" TO 15" SHALL BE CONSTRUCTED OF SDR-35 PVC.
- THE UPSTREAM END OF ALL SANITARY SEWER LATERALS SHALL BE CLEARLY MARKED WITH A 4x4 TREATED POST EXTENDING 3' BELOW GRADE AND 1' ABOVE GRADE.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- SEE SITE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
- SITE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
- ALL CATCH BASIN GRATE AND FRAMES ARE TO BE BY EAST JORDAN IRON WORKS.
- LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- BUILDING CONTRACTOR SHALL PROVIDE & INSTALL A PERMANENT INDICATING VALVE 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATION POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST & WILL REMAIN AS PART OF THE SYSTEM ONCE ALL TESTING IS COMPLETED. THE FIRE LINE MAIN WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM. SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE MAIN WITH THE BUILDING CONTRACTOR.
- ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE CITY ENGINEER AT (812)349-3913 TO SCHEDULE THE MEETING.
- CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CITY ENGINEER MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CITY OF BLOOMINGTON ENGINEERING DEPARTMENT DESIGNATED HOLIDAY, OR BEYOND NORMAL CITY OF BLOOMINGTON ENGINEERING DEPARTMENT WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CITY OF BLOOMINGTON WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON ENGINEER AT (812)349-3913.

NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN  APPLY TO THIS PROJECT.

**NOTE TO CONTRACTOR**

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

ARCHITECTURE  
CIVIL ENGINEERING  
PLANNING

BYNUM FANYO & ASSOCIATES, INC.

Bloomington, Indiana  
(812) 332-2990 (Fax)

528 north walnut street  
(812) 332-8030



PROPOSED  
5TH & 6TH STREET  
ALLEY RESURFACING  
5TH, 6TH & MORTON STREETS  
BLOOMINGTON, IN 47404

title: GENERAL NOTES & LEGENDS

designed by: AJW  
drawn by: AJW  
checked by: DJB  
sheet no: C101  
project no: 402140



PROPOSED:

# City of Bloomington Alleyway Resurfacing - Seventh, Eighth, College

PROJECT LOCATION



VICINITY/LOCATION MAP  
SCALE: 1"=2000'

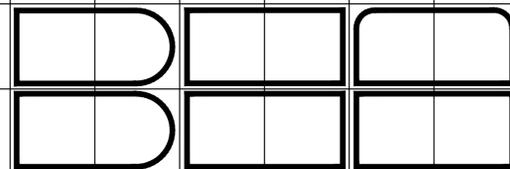
BLOOMINGTON, IN 47401

UTILITY CONTACT INFORMATION

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SHEET INDEX

SHEET NO.	SHEET NO.
C101	GENERAL NOTES & LEGENDS
C201	SITE, GRADING & UTILITY PLAN
C202	SITE, GRADING & UTILITY PLAN

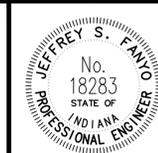


**BYNUM FANYO & ASSOCIATES, INC.**  
528 North Walnut Street  
Bloomington, Indiana 47404 (812) 332-8030

architecture  
civil engineering  
planning

OWNER/DEVELOPER:  
CITY OF BLOOMINGTON  
401 N. MORTON STREET  
BLOOMINGTON, IN 47404

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF  
TRANSPORATION, MANUAL ON UNIFORM TRAFFIC CONTROL  
DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD  
SPECIFICATIONS IS TO BE USED WITH THESE PLANS



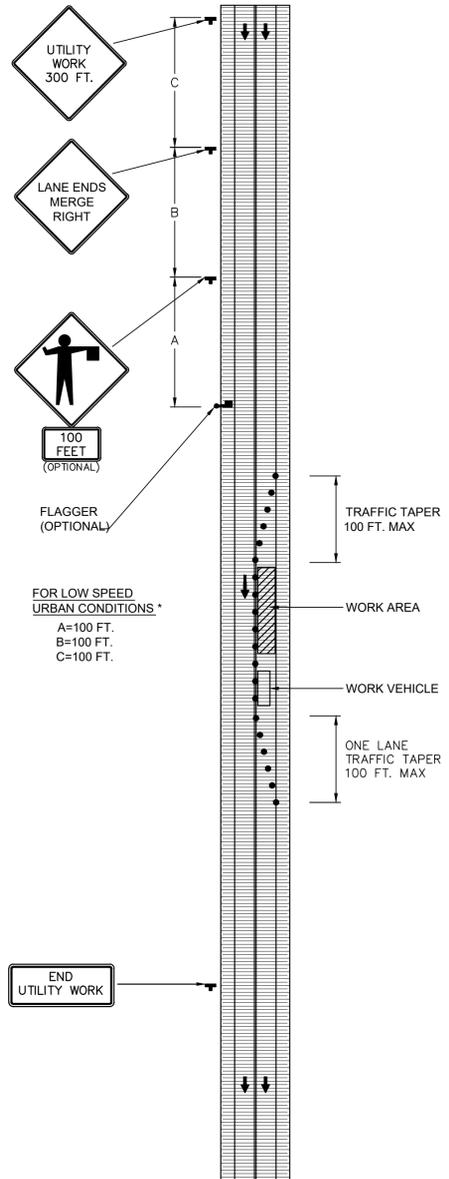
Certified By:  
*Jeffrey S. Fanyo*  
JEFFREY S. FANYO, P.E.  
IND. REG. NO. 18283

Revisions  
REVISIONS  
LINE2  
LINE3  
LINE4

COB ALLEYWAY RESURFACING  
PROJECT NO. 402217

**NOTES:**

- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS. A "BE PREPARED TO STOP" SIGN MAY BE ADDED TO THE SIGN SERIES.
- WHEN USED, THE "BE PREPARED TO STOP" SIGN SHOULD BE LOCATED BETWEEN THE "FLAGGER" SIGN AND THE "ONE LANE ROAD" SIGN.
- FOR LOW-VOLUME SITUATIONS WITH SHORT WORK ZONES ON STRAIGHT ROADWAYS WHERE THE FLAGGER IS VISIBLE TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS, A SINGLE FLAGGER.
- AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED, EXCEPT IN EMERGENCIES.



**DETAIL - TRAFFIC CONTROL PLAN (AT THREE LANE ONE-WAY ROAD)**  
NOT TO SCALE

**SITE IMPROVEMENT LEGEND**

EXISTING CONTOUR	---	XXX
PROPOSED CONTOUR	---	XXX
PROPOSED FLOWLINE DIRECTION	FL>	
PROPOSED SPOT GRADE ELEVATION	XXX.XX	
TC=PROPOSED TOP OF CURB ELEVATION EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	TC=XXX.XX EP=XXX.XX	
FINISH EDGE OF PAVEMENT AT GRADE	EP=XXX.XX	
MATCH THE EXISTING'S CONDITIONS GRADES ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJACENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	MEG=XXXXXX	
(B) PROPOSED PAVEMENT MILL AND OVERLAY. CONTRACTOR TO REFER TO SPOT GRADES, SLOPE ARROWS, AND FLOWLINE DIRECTION FOR PROPOSED SURFACE ASPHALT CONSTRUCTION. 1 2" MILL MIN. AND 1 2" OVERLAY MIN. EXCESS MILL AND OVERLAY NECESSARY IN SOME LOCATIONS TO CONSTRUCT FLOWLINE. CONTRACTOR SHALL CONSTRUCT PAVEMENT WITH 1% MIN. CROSS SLOPE TO ENSURE POSITIVE DRAINAGE AND NO PONDING. REFER TO PLANS FOR DETAILS.		
(R) PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP - REFER TO DETAIL		
(PP) PROPOSED CITY OF BLOOMINGTON ASPHALT PAVEMENT PATCH (18' WIDE MIN. WITH CLEAN STRAIGHT LINE CUTS IN EXISTING PAVEMENT) - REFER TO DETAIL		
(C) PROPOSED REINFORCED CONCRETE PAVEMENT - REFER TO DETAIL		
(F) PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.		
(13) PROPOSED 6" STANDING CONCRETE CURB - REFER TO DETAIL		
(1C) PROPOSED CONCRETE CURB TRANSITION, 6' LENGTH FROM 0" TO 6" CURB HEIGHT		
(1C) PROPOSED DEPRESSED CURB - CONTRACTOR TO REFER TO DETAIL FOR "CONCRETE CURB" BUT WITH 1/4" CURB HEIGHT TO CREATE A LIP FOR DRIVEWAY		

**EXISTING LEGEND**

EXISTING FENCE	X X X
EXISTING WATER LINE	W
EXISTING OVERHEAD UTILITY LINES	OHU
EXISTING UNDERGROUND ELECTRIC LINES	UGE
EXISTING UNDERGROUND TELEPHONE LINES	UGT
EXISTING UNDERGROUND FIBER OPTIC LINES	FO
EXISTING GAS LINE	GAS
EXISTING SANITARY FORCEMAIN	FM
EXISTING CONTOUR	---
EXISTING SANITARY SEWER AND MANHOLE	---
EXISTING STORM SEWER AND INLET	---
PROPERTY LINE	---

THE CURRENT EDITION OF THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG) TO BE USED WITH THESE PLANS FOR ALL RAMPS, SIDEWALKS, AND OTHER PEDESTRIAN FACILITIES. NO SLOPE OF ANY SECTION OF STREET, RAMPS, SIDEWALKS, AND OTHER WALKABLE FACILITIES SHALL BE MORE THAN 8.33% SLOPE LONGITUDINALLY (2% CROSS-SLOPE MAX. FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED) CONTRACTOR WILL BE ASKED TO REMOVE AND REPLACED IF ANY ARE CONSTRUCTED WITH A SLOPE GREATER THAN 8.33% LONGITUDINALLY OR 2% CROSS-SLOPE FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED. COORDINATE WITH ENGINEER BEFORE ANY AREA IS CONSTRUCTED IF ANTICIPATED TO BE IN VIOLATION OF THIS POLICY.

**ALL WORK WITHIN EXISTING AND PROPOSED RIGHT-OF-WAY MUST BE CONDUCTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY ALL REQUIRED INSPECTIONS AND TESTS. ALL REQUIRED TESTS SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR**

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NOTE TO CONTRACTOR: CONTRACTOR SHALL COORDINATE WITH CITY OF BLOOMINGTON ENGINEERING DEPARTMENT TO OBTAIN RIGHT OF ENTRY FOR ANY CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY LIMITS

**SPECIFICATIONS**

CONTRACTOR SHALL REFER TO 'INDIANA DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS 2022' FOR DETAILS AND SPECIAL PROVISIONS.

SEE SECTION 306 - MILLING FOR ASPHALT MILLING SPECIFICATIONS, DETAILS, AND SPECIAL PROVISIONS.

SEE SECTION 402 - HMA PAVEMENT FOR OVERLAY AND WEDGE AND LEVEL SPECIFICATIONS, DETAILS, AND SPECIAL PROVISIONS

SEE SECTION 720.04 - GRADE ADJUSTMENT OF EXISTING STRUCTURES FOR CASTING ADJUSTMENT SPECIFICATIONS, DETAILS, AND SPECIAL PROVISIONS

SEE SECTION 105.06 - COOPERATION WITH UTILITIES FOR GAS, SANITARY, WATER, AND ELECTRIC UTILITY APPURTENANCES REQUIRING ADJUSTMENT OR RELOCATION SPECIFICATIONS, DETAILS, AND SPECIAL PROVISIONS

**PARKING AND PAVEMENT NOTES**

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- CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
- CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY A.G.C. OF AMERICA, INC. AND THE HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.

**GRADING NOTES**

- NEW FINISHED CONTOURS SHOWN ARE TOP OF FUTURE PAVING IN AREAS TO RECEIVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEED OR PLANTED.
- AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
- CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.
- ALL AREAS NOT COVERED BY BUILDING OR PAVING ARE TO BE VEGETATED (SEED OR PER LANDSCAPE PLAN).
- UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
- ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. THE LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION.
- CONTRACTOR SHALL COMPACT AND MAINTAIN A 30,000 SQ. FT. STONEBASE CONSTRUCTION LAYDOWN AREA W/ STONE ACCESS FROM THE CONSTRUCTION ENTRANCE AND STONE ACCESS TO THE BUILDING PAD.
- THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND CANNOT SHOW EVERY ITEM NEEDED FOR A COMPLETE OPERATIONAL STORM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATING STORM SYSTEM.
- ALL FILL SHALL BE FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTION. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT AS DICTATED BY THE TYPE OF FILL MATERIAL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILARLY TRACKED VEHICLE BE USED AS COMPACTION EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENTAGE OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (95 PERCENT OF MAXIMUM DRY DENSITY). IF THE SPECIFIED COMPACTION LIMITS ARE NOT MET, SUCH AREAS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.



**DIAL '811' BEFORE YOU DIG**  
PER INDIANA STATE LAW IC8-1-26.  
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

**GENERAL NOTES**

- BOUNDARY AND TOPO BY BYNUM FANYO AND ASSOCIATES, 528 NORTH WALNUT STREET, BLOOMINGTON, INDIANA 47404. PHONE (812) 332-8030
- DEVELOPER: CITY OF BLOOMINGTON
- PROJECT ADDRESS: 7TH, 8TH, AND COLLEGE STREETS. BLOOMINGTON, IN. 47404
- ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
- EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

**ON-SITE UTILITY NOTES**

- ALL WATER PIPE 6" AND LARGER SHALL BE PRESSURE CLASS 350 DIP WATER PIPE CONFORMING TO ALL STATE AND LOCAL STANDARDS.
- WATER MAIN FITTINGS 6" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA/ANSI STANDARD SPECIFICATIONS C153/A21.53, LATEST REVISION.
- 2" WATER MAINS SHALL BE SDR-21 (PR200) AND 4" PIPE MAY BE EITHER SDR-21 (PR200) OR C900 (DR-14).
- ALL WATER SERVICE LINES CONNECTING TO 2" PVC MAINS SHALL BE 1" TYPE "K" COPPER. ALL SERVICE LINES FROM MAIN TO METER SHALL BE TYPE "K" COPPER WITH FLARED ENDS.
- MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE BENDS, OFFSETS, TEES, PLUGS, ETC...
- ALL WATER LINE GATE VALVES OTHER THAN AIR RELEASE VALVES AND TAPPING VALVES SHALL BE CAST IRON BODY, FULLY BRONZE MOUNTED, WITH RESILIENT SEAT AND NON-RISING STEM AND SHALL BE MANUFACTURED BY M & H VALVE COMPANY, DARLING VALVE AND MANUFACTURING COMPANY, KENNEDY VALVE COMPANY, OR MUELLER COMPANY.
- FLUSH HYDRANTS SHALL BE PLACED AT THE ENDS OF ALL WATER MAINS AND AT ANY HIGH POINTS IN THE LINE.
- AIR RELEASE VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF WATER MAINS AND SHALL BE VAL-MATIC BRAND AND SHALL INCORPORATE THE OPTIONAL VACUUM-CHECK FEATURE.
- ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN OR MUELLER CENTURION.
- ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE TOP OF PIPE.
- ALL SPRINKLER, DOMESTIC, AND SANITARY LEADS TO THE BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18").
- GRAVITY SANITARY SEWER PIPE 6" TO 15" SHALL BE CONSTRUCTED OF SDR-35 PVC.
- THE UPSTREAM ENDS OF ALL SANITARY SEWER LATERALS SHALL BE CLEARLY MARKED WITH A 4x4 TREATED POST EXTENDING 3' BELOW GRADE AND 1' ABOVE GRADE.
- TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- SEE SITE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
- SITE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
- ALL CATCH BASIN GRATE AND FRAMES ARE TO BE BY EAST JORDAN IRON WORKS.
- LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- BUILDING CONTRACTOR SHALL PROVIDE & INSTALL A PERMANENT INDICATING VALVE 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATION POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST & WILL REMAIN AS PART OF THE SYSTEM ONCE ALL TESTING IS COMPLETED. THE FIRE LINE MAIN WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM. SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE MAIN WITH THE BUILDING CONTRACTOR.
- ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE CITY ENGINEER AT (812)349-3913 TO SCHEDULE THE MEETING.
- CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CITY ENGINEER MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CITY OF BLOOMINGTON ENGINEERING DEPARTMENT DESIGNATED HOLIDAY, OR BEYOND NORMAL CITY OF BLOOMINGTON ENGINEERING DEPARTMENT WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CITY OF BLOOMINGTON WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON ENGINEER AT (812)349-3913.

NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN  APPLY TO THIS PROJECT.

**NOTE TO CONTRACTOR**

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

ARCHITECTURE  
CIVIL ENGINEERING  
PLANNING

BYNUM FANYO & ASSOCIATES, INC.

528 north walnut street  
Bloomington, Indiana  
(812) 332-8030 (Fax)

JEFFREY S. FANYO  
No. 18283  
STATE OF INDIANA  
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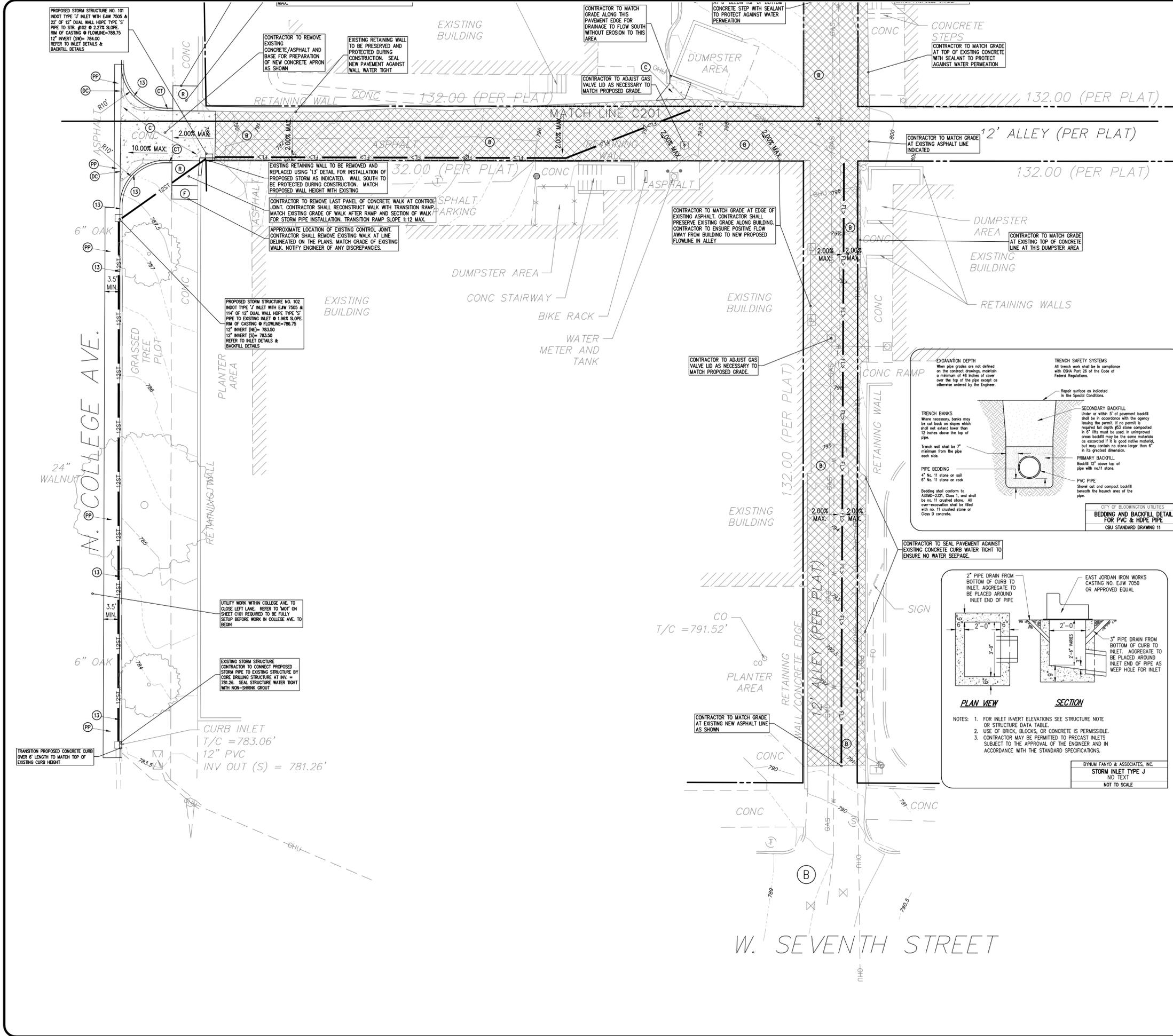
certified by *[Signature]*

PROPOSED  
C.O.B. ALLEY RESURFACING  
SEVENTH, COLLEGE, EIGHTH  
SEVENTH ST., COLLEGE AVE., EIGHTH ST.,  
BLOOMINGTON, IN

title: GENERAL NOTES & LEGENDS

designed by: DJB  
drawn by: TJN  
checked by: DJB  
sheet no: C101  
project no.: 402217



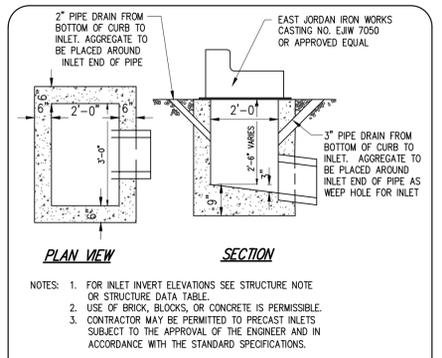
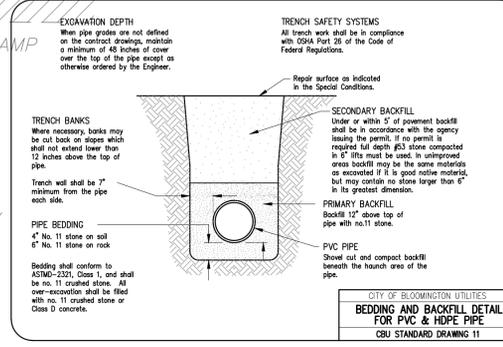


### EXISTING LEGEND

EXISTING FENCE	— X — X — X —
EXISTING WATER LINE	— W —
EXISTING OVERHEAD UTILITY LINES	— OHU —
EXISTING UNDERGROUND ELECTRIC LINES	— UGE —
EXISTING UNDERGROUND TELEPHONE LINES	— UGT —
EXISTING UNDERGROUND FIBER OPTIC LINES	— FO —
EXISTING GAS LINE	— GAS —
EXISTING SANITARY FORCEMAIN	— FM —
EXISTING CONTOUR	— XXX —
EXISTING SANITARY SEWER AND MANHOLE	— ○ —
EXISTING STORM SEWER AND INLET	— □ —
PROPERTY LINE	— — — —

### SITE IMPROVEMENT LEGEND

EXISTING CONTOUR	— XXX —
PROPOSED CONTOUR	— ○ —
PROPOSED FLOWLINE DIRECTION	— FL > —
PROPOSED SPOT GRADE ELEVATION	— XXXXX —
TC=PROPOSED TOP OF CURB ELEVATION	— TC=XXXXXX —
EP=PROPOSED EDGE OF PAVEMENT ELEVATION AT BOTTOM OF CURB	— EP=XXXXXX —
FINISH EDGE OF PAVEMENT AT GRADE	— EP=XXXXXX —
MATCH FOR EXISTING CONDITIONS GRADES	— MEG=XXXXXX —
ELEVATION FOR BEST FIT OF PROPOSED GRADING ADJUSTMENT TO THE EXISTING CONDITION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES	
(B) PROPOSED PAVEMENT MILL AND OVERLAY. CONTRACTOR TO REFER TO SPOT GRADES, SLOPE ARROWS, AND FLOWLINE DIRECTION FOR PROPOSED SURFACE ASPHALT CONSTRUCTION. 1 1/2" MILL MIN. AND 1 1/2" OVERLAY MIN. EXCESS MILL AND OVERLAY NECESSARY IN SOME LOCATIONS TO CONSTRUCT FLOWLINE. CONTRACTOR SHALL CONSTRUCT PAVEMENT WITH 1% MIN. CROSS SLOPE TO ENSURE POSITIVE DRAINAGE AND NO PONDING. REFER TO PLANS FOR DETAILS.	
(R) PROPOSED INDOT SIDEWALK ACCESSIBLE RAMP - REFER TO DETAIL.	
(PP) PROPOSED CITY OF BLOOMINGTON ASPHALT PAVEMENT PATCH (16" WIDE MIN. WITH CLEAN STRAIGHT LINE CUTS IN EXISTING PAVEMENT) - REFER TO DETAIL.	
(C) PROPOSED REINFORCED CONCRETE PAVEMENT - REFER TO DETAIL.	
(F) PROPOSED CONCRETE PATIO OR SIDEWALK. REFER TO PLAN FOR LOCATIONS AND REFER TO DETAIL.	
(13) PROPOSED 6" STANDING CONCRETE CURB - REFER TO DETAIL.	
(CT) PROPOSED CONCRETE CURB TRANSITION, 6" LENGTH FROM 0" TO 6" CURB HEIGHT	
(DC) PROPOSED DEPRESSIONED CURB - CONTRACTOR TO REFER TO DETAIL FOR "CONCRETE CURB" BUT WITH 1/4" CURB HEIGHT TO CREATE A LIP FOR DRIVEWAY	



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### SPECIFICATIONS

CONTRACTOR SHALL REFER TO 'INDIANA DEPARTMENT OF TRANSPORTATION - STANDARD SPECIFICATIONS 2022' FOR DETAILS AND SPECIAL PROVISIONS.

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revisions:

ARCHITECTURE  
CIVIL ENGINEERING  
PLANNING

BYNUM FANYO & ASSOCIATES, INC.

52B north walnut street  
(812) 332-8030

JEFFREY S. FANYO  
No. 18283  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

certified by *JM*

PROPOSED  
**C.O.B. ALLEY RESURFACING**  
**SEVENTH, COLLEGE, EIGHTH**  
**SEVENTH ST., COLLEGE AVE., EIGHTH ST.,**  
**BLOOMINGTON, IN**

title: SITE PLAN

designed by: DJB  
drawn by: TJN  
checked by: DJB  
sheet no: C202  
project no.: 402217

# PROPOSED: City of Bloomington Alleyway Resurfacing - Kirkwood, Grant, Sixth & Dunn

PROJECT LOCATION



VICINITY/LOCATION MAP  
NOT TO SCALE

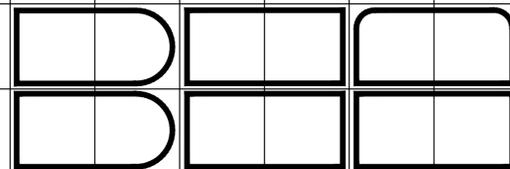
BLOOMINGTON, IN 47401

UTILITY CONTACT INFORMATION

<b>GAS</b> VECTREN 205 S. MADISON ST. BLOOMINGTON, IN 47401 DOUG ANDERSON (812)330-4009	<b>SEWER AND WATER</b> CITY OF BLOOMINGTON UTILITIES 600 E. MILLER DR. BLOOMINGTON, IN 47402 NANCY AXSOM (812)349-3689	<b>ELECTRIC</b> DUKE ENERGY 1619 W. DEFFENBAUGH ROAD KOKOMO, INDIANA 46902 JIM SHIELDS (317)375-2071
<b>TELEPHONE</b> AT&T P.O. BOX 56 BLOOMINGTON, IN 47402 BRENT McCABE (812)334-4521	<b>CABLE TELEVISION</b> COMCAST 2450 SOUTH HENDERSON STREET BLOOMINGTON, IN 47404 SCOTT TEMPLETON (812)355-7822	<b>UNDERGROUND UTILITY LOCATION</b> INDIANA UNDERGROUND PLANT PROTECTION 1-(800)382-5544

SHEET INDEX

SHEET NO.	SHEET NO.
C101	GENERAL NOTES & LEGENDS
C201	SITE, GRADING & UTILITY PLAN
C202	SITE, GRADING & UTILITY PLAN
C203	SITE, GRADING & UTILITY PLAN

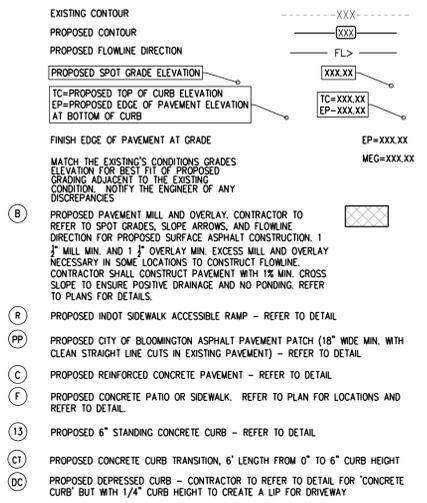


**BYNUM FANYO & ASSOCIATES, INC.**  
528 North Walnut Street  
Bloomington, Indiana 47404 (812) 332-8030

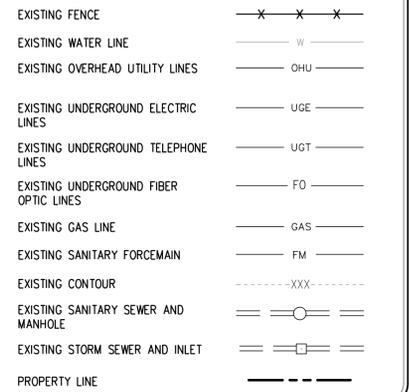
architecture  
civil engineering  
planning

<p>OWNER/DEVELOPER: CITY OF BLOOMINGTON 400 N. MORTON STREET BLOOMINGTON, IN 47404</p>	<p>THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES &amp; CITY OF BLOOMINGTON UTILITIES STANDARD SPECIFICATIONS IS TO BE USED WITH THESE PLANS</p>		<p>Certified By: <i>Jeffrey S. Fanyo</i> JEFFREY S. FANYO, P.E. IND. REG. NO. 18283</p>	<p>Revisions  COB ALLEYWAY RESURFACING PROJECT NO. 402217</p>
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**SITE IMPROVEMENT LEGEND**



**EXISTING LEGEND**



THE CURRENT EDITION OF THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG) TO BE USED WITH THESE PLANS FOR ALL RAMPS, SIDEWALKS, AND OTHER PEDESTRIAN FACILITIES. NO SLOPE OF ANY SECTION OF STREET, RAMPS, SIDEWALKS, AND OTHER WALKABLE FACILITIES SHALL BE MORE THAN 8.33% SLOPE LONGITUDINALLY (2% CROSS-SLOPE MAX. FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED) CONTRACTOR WILL BE ASKED TO REMOVE AND REPLACED IF ANY ARE CONSTRUCTED WITH A SLOPE GREATER THAN 8.33% LONGITUDINALLY OR 2% CROSS-SLOPE FOR STOP CONTROLLED, 5% CROSS-SLOPE MAX. FOR NON-STOP CONTROLLED. COORDINATE WITH ENGINEER BEFORE ANY AREA IS CONSTRUCTED IF ANTICIPATED TO BE IN VIOLATION OF THIS POLICY.

**ALL WORK WITHIN EXISTING AND PROPOSED RIGHT-OF-WAY MUST BE CONDUCTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE CITY ALL REQUIRED INSPECTIONS AND TESTS. ALL REQUIRED TESTS SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR**

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IS TO BE USED WITH THESE PLANS

NOTE TO CONTRACTOR: CONTRACTOR SHALL FOLLOW THE '2011 INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH REVISIONS 1 & 2 & 3' FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. COORDINATE MAINTENANCE OF TRAFFIC WITH THE CITY OF BLOOMINGTON AND ADJACENT PROPERTY OWNERS.

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**PARKING AND PAVEMENT NOTES**

- 1. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC DEVICES, 1988 EDITION AS AMENDED.
- 2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE. ALL CURB RADIUS ARE TO BE 5' UNLESS INDICATED OTHERWISE.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
- 4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON THE SITE.
- 5. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOLS.
- 6. CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO INSURE SMOOTH TRANSITIONS. CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY AND AS DIRECTED BY INSPECTOR TO INSURE POSITIVE DRAINAGE. (TYPICAL AT ALL INTERSECTIONS).
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- 2. AREAS OUTSIDE OF THE PARKING LOT PERIMETERS SHOWN TO BE SEED OR PLANTED SHALL RECEIVE 6" OF TOPSOIL. THIS TOPSOIL IS TO BE PLACED AND LEVELED BY THE CONTRACTOR.
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PER INDIANA STATE LAW IC8-1-26.  
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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- 2. DEVELOPER: CITY OF BLOOMINGTON
- 3. PROJECT ADDRESS: KIRKWOOD, 6TH, GRANT AND DUNN STREETS. BLOOMINGTON, IN. 47404
- 4. ALL WORK IS TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
- 5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 6. HYDRANT LOCATION SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
- 7. EXISTING UTILITIES ON SITE SHALL BE RELOCATED AS REQUIRED. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RELOCATION.
- 8. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

**ON-SITE UTILITY NOTES**

- 1. ALL WATER PIPE 6" AND LARGER SHALL BE PRESSURE CLASS 350 DIP WATER PIPE CONFORMING TO ALL STATE AND LOCAL STANDARDS.
- 2. WATER MAIN FITTINGS 6" AND LARGER SHALL BE DUCTILE IRON CONFORMING TO AWWA/ANSI STANDARD SPECIFICATIONS C153/A21.5.3, LATEST REVISION.
- 3. 2" WATER MAINS SHALL BE SDR-21 (PR200) AND 4" PIPE MAY BE EITHER SDR-21 (PR200) OR C900 (DR-14).
- 4. ALL WATER SERVICE LINES CONNECTING TO 2" PVC MAINS SHALL BE 1" TYPE "K" COPPER. ALL SERVICE LINES FROM MAIN TO METER SHALL BE TYPE "K" COPPER WITH FLARED ENDS.
- 5. MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE BENDS, OFFSETS, TEES, PLUGS, ETC...
- 6. ALL WATER LINE GATE VALVES OTHER THAN AIR RELEASE VALVES AND TAPPING VALVES SHALL BE CAST IRON BODY, FULLY BRONZE MOUNTED, WITH RESILIENT SEAT AND NON-RISING STEM AND SHALL BE MANUFACTURED BY M & H VALVE COMPANY, DARLING VALVE AND MANUFACTURING COMPANY, KENNEDY VALVE COMPANY, OR MUELLER COMPANY.
- 7. FLUSH HYDRANTS SHALL BE PLACED AT THE ENDS OF ALL WATER MAINS AND AT ANY HIGH POINTS IN THE LINE.
- 8. AIR RELEASE VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF WATER MAINS AND SHALL BE VAL-MATIC BRAND AND SHALL INCORPORATE THE OPTIONAL VACUUM-CHECK FEATURE.
- 9. ALL FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN OR MUELLER CENTURIUM.
- 10. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
- 11. WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM COVER OF 4'-0" ABOVE TOP OF PIPE.
- 12. ALL SPRINKLER, DOMESTIC, AND SANITARY LEADS TO THE BUILDING SHALL END AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- 13. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18").
- 14. GRAVITY SANITARY SEWER PIPE 6" TO 15" SHALL BE CONSTRUCTED OF SDR-35 PVC.
- 15. THE UPSTREAM ENDS OF ALL SANITARY SEWER LATERALS SHALL BE CLEARLY MARKED WITH A 4x4 TREATED POST EXTENDING 3' BELOW GRADE AND 1' ABOVE GRADE.
- 16. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- 17. SEE SITE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS.
- 18. SITE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- 19. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
- 20. ALL CATCH BASIN GRATE AND FRAMES ARE TO BE BY EAST JORDAN IRON WORKS.
- 21. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- 22. BUILDING CONTRACTOR SHALL PROVIDE & INSTALL A PERMANENT INDICATING VALVE 12" ABOVE THE FLOOR ON THE FIRE LINE AT THE TERMINATION POINT. THIS VALVE WILL BE USED TO HYDROSTATIC PRESSURE TEST AGAINST & WILL REMAIN AS PART OF THE SYSTEM ONCE ALL TESTING IS COMPLETED. THE FIRE LINE MAIN WILL NOT BE DISMANTLED FOR CONNECTION TO THE FIRE SUPPRESSION SYSTEM. SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FIRE MAIN WITH THE BUILDING CONTRACTOR.
- 23. ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF BLOOMINGTON ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR AND/OR DEVELOPER MUST CONTACT THE CITY ENGINEER AT (812)349-3913 TO SCHEDULE THE MEETING.
- 24. CONTRACTOR SHALL NOTIFY THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT ONE (1) WORKING DAY PRIOR TO CONSTRUCTION OF ANY WATER, STORM OR SANITARY SEWER UTILITY WORK. A CITY ENGINEER MUST HAVE NOTICE SO WORK CAN BE INSPECTED, DOCUMENTED, AND PROPER AS-BUILT MADE. WHEN A CONTRACTOR WORKS WEEKENDS, A CITY OF BLOOMINGTON ENGINEERING DEPARTMENT DESIGNATED HOLIDAY, OR BEYOND NORMAL CITY OF BLOOMINGTON ENGINEERING DEPARTMENT WORK HOURS, THE CONTRACTOR WILL PAY FOR THE INSPECTOR'S OVERTIME. FOR CITY OF BLOOMINGTON WORK HOURS AND HOLIDAY INFORMATION, PLEASE CONTACT THE CITY OF BLOOMINGTON ENGINEER AT (812)349-3913.

NOTE: ONLY NOTES ON THIS SHEET MARKED WITH AN  APPLY TO THIS PROJECT.

**NOTE TO CONTRACTOR**

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

revisions:

ARCHITECTURE  
CIVIL ENGINEERING  
PLANNING

BYNUM FANYO & ASSOCIATES, INC.

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**PROPOSED**  
**C.O.B. ALLEY RESURFACING**  
**KIRKWOOD, GRANT, SIXTH & DUNN**  
**KIRKWOOD AVE., GRANT ST., SIXTH ST., DUNN ST.,**  
**BLOOMINGTON, IN**

title: GENERAL NOTES & LEGENDS

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