

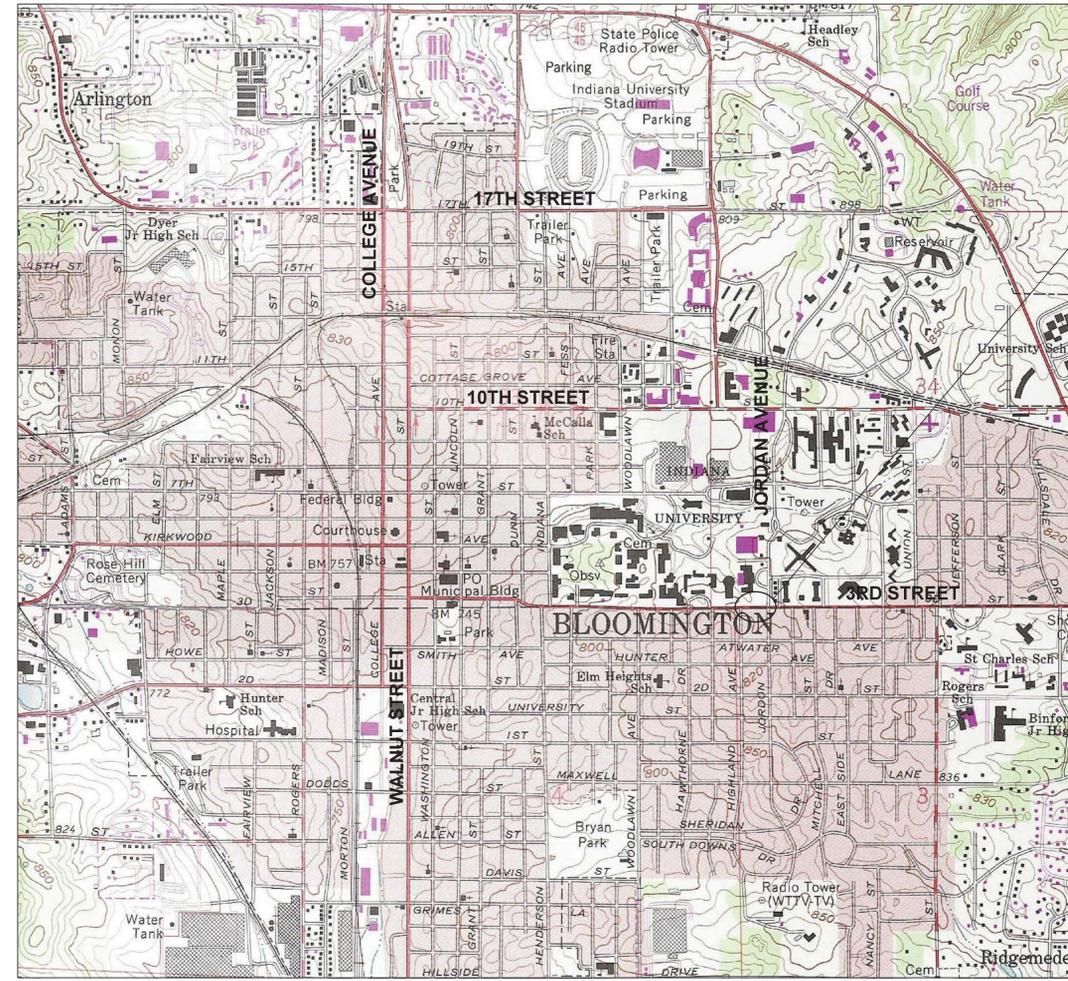
CITY OF BLOOMINGTON



IMPROVEMENTS ON SOUTH SIDE OF 3RD STREET BETWEEN HIGHLAND AVENUE AND JORDAN AVENUE

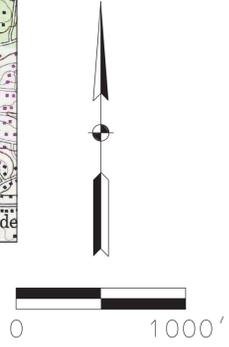
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SIDEWALK AND RAMP PLANS
- 5 MAINTENANCE OF TRAFFIC
AND ACCESS PLAN



PROJECT LOCATION

LOCATION MAP
BLOOMINGTON, INDIANA



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 2/13/2016 2:35:52 AM

PREPARED BY:



1321 Laurel Oak Drive
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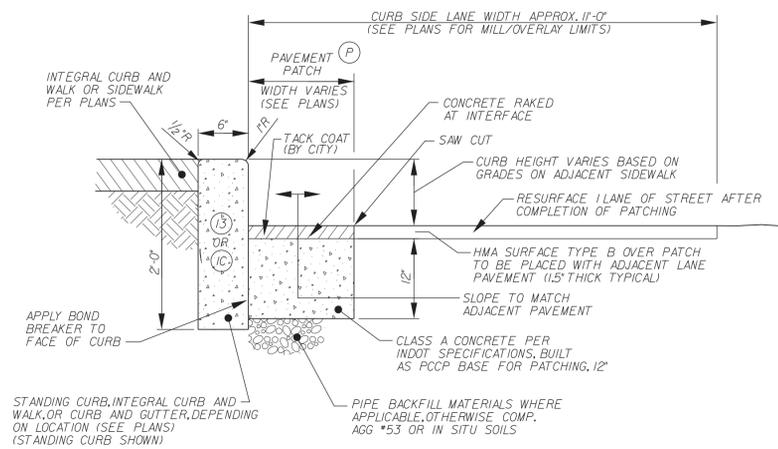
RECOMMENDED FOR APPROVAL	<i>B. Ridgway</i>	2/9/2016
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CITY OF BLOOMINGTON

JORDAN AVENUE AND 3RD STREET
INTERSECTION IMPROVEMENTS

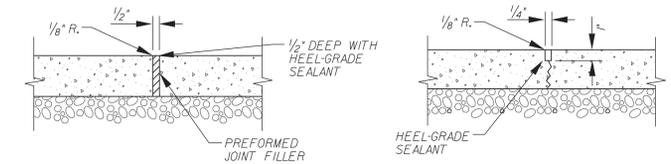
HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
SURVEY BOOK	DESIGNATION
	N/A
CONTRACT	SHEETS
	1 of 5
	PROJECT
	3RD ST AND JORDAN AVE.

3RD STREET STORM AND SIDEWALK IMPROVEMENTS



P PAVEMENT PATCH AND OVERLAY DETAIL
NTS

- NOTES:
1. AREA BEHIND CURBS TO RECEIVE TREATMENT AS SHOWN ON PLANS.
 2. REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
 3. PAVEMENT PATCHING MAY NOT BE REQUIRED IF EXISTING PAVEMENT CAN BE REMOVED TO A CLEAN AND STRAIGHT EDGE AT FRONT OF PROPOSED CURB OR GUTTER. CITY APPROVAL IS REQUIRED.
 4. PAVEMENT PATCHING REQUIRED WHEREVER EXISTING PAVEMENT MUST BE REPAIRED OR REPLACED NEXT TO REQUIRED CURB, DRIVE OR SIDEWALK WORK.



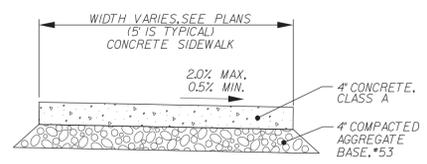
9 EXPANSION JOINT

EXPANSION JOINT MATERIAL SHALL BE "ZIP-STRIP" EXPANSION MATERIAL WITH REMOVABLE CAP BY GREENSTREAK OR APPROVED EQUAL.

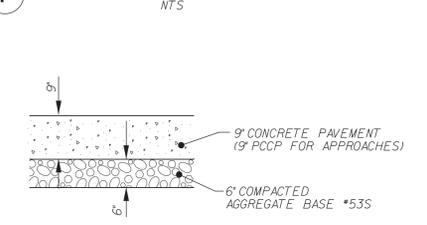
JOINT IN CONCRETE SIDEWALKS
NTS

CONTRACTION JOINT

SIDEWALK AND CURB JOINTS ARE NOT FULLY SHOWN ON PLANS BUT ARE REQ'D. PER THE NOTES AND PROPER CONSTRUCTION PRACTICE. NEW PAVEMENTS NEXT TO BUILDINGS AND STRUCTURES SHALL BE ISOLATED WITH 0.5\"/>



F TYPICAL SIDEWALK DETAIL
NTS



C3 TYPICAL CLASS III DRIVE PAVEMENT
NTS

SIDEWALK JOINT NOTES:

1. INSTALL 1/2\"/>
2. IN EACH SIDEWALK SEGMENT, TOOL CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2\"/>

CURB JOINTS NOTE:

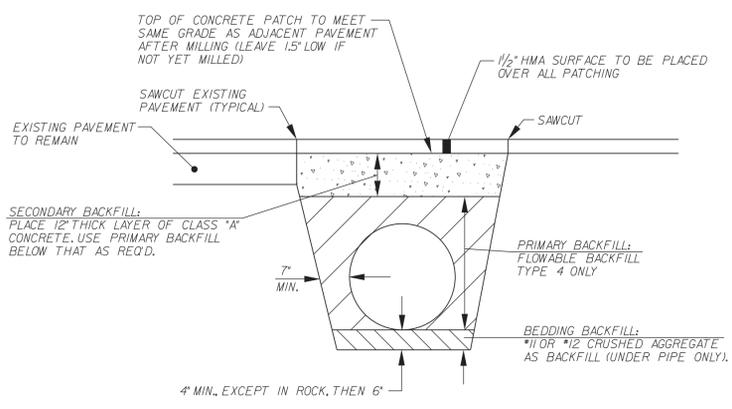
1. ALL CURBS SHALL RECEIVE A FULL DEPTH EXPANSION JOINT FORMED WITH 1/2\"/>

- EVERY EXPANSION JOINT IN ADJACENT SIDEWALKS OR MEDIAN BUFFER STRIP
- AT EACH RADIUS POINT AND AT START/END OF DRIVES
- ON EITHER SIDE OF CURB INLETS OR OTHER CASTINGS
- AT SAWCUT LIMITS OF REMOVAL TO ANY EXISTING CURB
- AT 100' MAXIMUM INTERVALS, IF NO OTHER JOINTS NEEDED

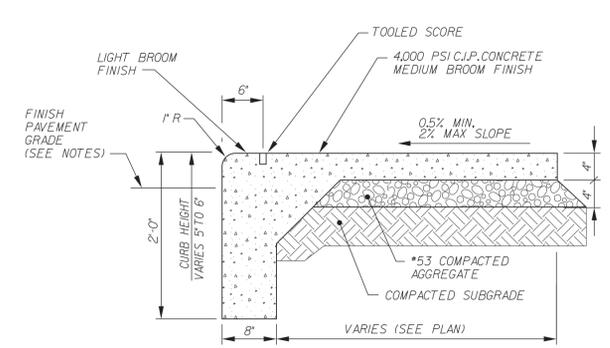
2. CURBS & COMBINED CURB AND GUTTER SHALL RECEIVE A TOOLED CONTRACTION JOINT AT 20' MAXIMUM SPACING.

CURB RAMPS AND TRUNCATED DOMES:

1. RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12% SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.
2. RAMPS ARE TO RECEIVE DETECTABLE WARNING PLATES, PER CITY STANDARDS. PLATES SHALL BE EAST JORDAN IRON WORKS, MODEL *7005. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. RAMPS SHALL BE IN GENERAL ACCORDANCE WITH INDOT RAMP TYPES A AND D, EXCEPT WIDTH AND LAYOUT SHALL BE PER PLANS, AND CITY REQUIRES IRON PLATES AS NOTED.

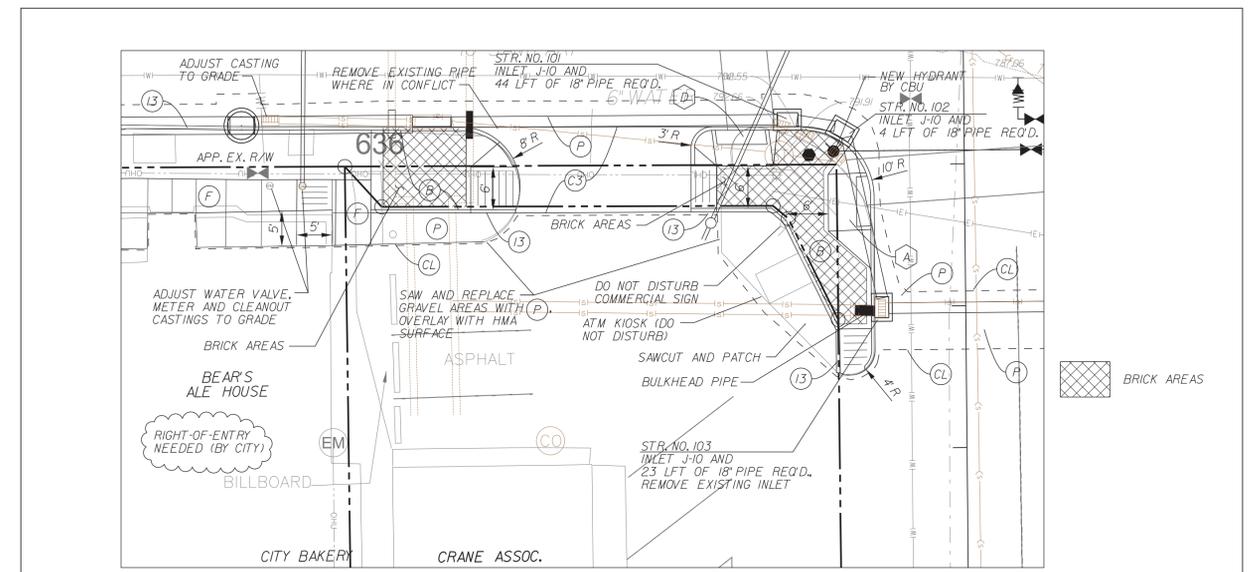


PIPE BACKFILL AND PAVEMENT PATCHING
NTS

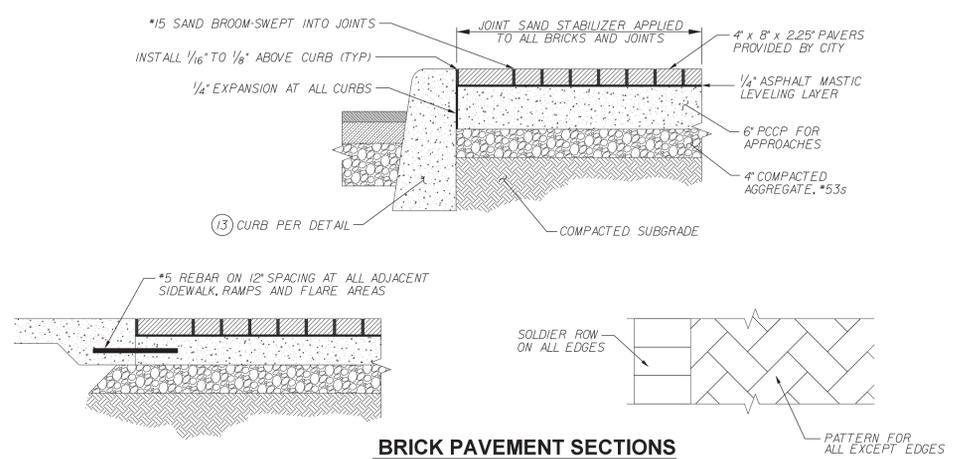


IC INTEGRAL CURB AND WALK
NTS

- NOTES:
1. HAND FINISH CURB TO A 6\"/>
 2. THIS DETAIL MAY BE USED WHERE NEW CONCRETE WALKS ARE NEXT TO NEW CURBS.
 3. USE IN CONJUNCTION WITH PAVEMENT PATCH DETAIL.



SOUTHWEST CORNER AREA



B BRICK PAVEMENT SECTIONS
SOUTHWEST CORNER AREA - BRICK PAVEMENT OVER CONCRETE IN SIDEWALK AREAS

STRUCTURE NUMBER	SIZE	PIPE MATERIAL	MANHOLE, CATCH BASIN, INLET, OR SPECIALTY STRUCTURE	EJWV CASTING REQUIRED	FLOWLINE						REMARKS					
					LENGTH	SLOPE	COVER	UP-STREAM	DOWN-STREAM	CASTING		CONNECT TO STR.				
	in				ft	%	ft	ELEV.	ELEV.	ELEV.	CYD	CYD	CYD			
STORM SEWERS																
101	18	HDPE	INLET J	7030, M4 Grate, T1 Back	44	1.14	1.7	791.00	790.50	795.20	Box Culv.	0.4	1.6	13.6	Re-use existing hole in box culvert, enlarge as needed, reseal with concrete	
102	18	HDPE	INLET J	7030, M4 Grate, T1 Back	4	2.50	1.4	791.20	791.10	795.10	101	N/A	0.2	1.1		
103	18	HDPE	INLET J	7030, M4 Grate, T1 Back	23	1.30	1.5	791.60	791.50	795.63	102	0.1	0.9	6.6	Bulkhead existing pipe to west with Concrete	
104	18	HDPE	INLET J	7030, M4 Grate, T1 Back	25	1.20	1.2	792.00	791.70	795.67	103	N/A	0.9	6.3		
105	30	HDPE	MANHOLE D	7510, M3 Grate, T1 Back	11	0.91	0.5	792.55	792.45	796.40	106	N/A	0.6	3.6	Precast manhole to include formed box out for future pipe from south	
106	30	HDPE	MANHOLE D	7510, M3 Grate, T1 Back	55	1.00	0.5	792.40	791.85	796.35	107	N/A	2.6	17.6	Precast manhole to include formed box out for future pipe from west	
107	30	HDPE	MANHOLE D	7510, M3 Grate, T1 Back	65	1.00	0.8	791.80	791.15	796.10	108	N/A	3.4	24.1		
108	30	HDPE	MANHOLE D	7510, M3 Grate, T1 Back	62	1.00	1.3	791.10	790.48	795.80	109	N/A	3.2	27.8		
108A	6	PVC	DRAIN PIPE	NA	8	TBD	0.0	Exist	793.00	NA	108	0.1	0.2	0.9	Upstream invert must be field located. Adjust inverts if conflict with sanitary service	
108B	6	PVC	DRAIN PIPE WITH CASTING	6204 or Approved equal	15	TBD	0.0	794.00	793.80	796.00	108	0.1	0.3	1.3	Adjust inverts if conflict with sanitary service	
109	36	HDPE	MANHOLE E	V-4430 or Approved equal	63	1.00	1.3	790.43	789.80	795.50	110	N/A	3.7	33.4		
110	36	HDPE	MANHOLE E	7510, M3 Grate, T1 Back	23	0.87	1.5	789.75	789.55	795.30	Box Culv.	0.5	1.4	13.0	Sawcut new hole into existing box culvert, reseal with pint seal and concrete per CBU specifications	
111	NA	NA	Existing Box Culvert	7511 or Approved equal	NA	NA	NA	NA	795.17	NA	NA	0	0	0	See Note #6 for Special Casting Replacement Requirements	
TOTALS: Inlet J: 4 ea					Pipe, 18\"/> 		Pipe, 6\"/> 				1.2		19.2		149.3	
Manhole D: 4 ea					Pipe, 30\"/> 		Pipe, 36\"/> 				0		0		0	
Manhole E: 2 ea					Pipe, 18\"/> 		Pipe, 36\"/> 				0		0		0	

- NOTES:
1. ALL INLETS AND MANHOLES SHALL INCLUDE CAST IN PLACE TROUGH (BENCHING) THROUGH THE STRUCTURE, MANHOLES WITH INLET CASTINGS MAY BE SUBSTITUTED.
 2. ALL WORK ON INLETS AND MANHOLES, BOTH STORM AND SANITARY, SHALL BE PER CBU SPECIFICATIONS.
 3. CONTRACTOR MAY BE REQUIRED TO SCHEDULE A PRECONSTRUCTION MEETING WITH CBU.
 4. CONTRACTOR SHALL MEET CBU REQUIREMENTS FOR INSPECTIONS OF STORM STRUCTURES, AND OBTAIN WRITTEN CBU APPROVAL FOR THE WORK.
 5. WATER SERVICE REPLACEMENT WILL BE PERFORMED BY CBU AT CONTRACTOR REQUEST. SANITARY SERVICE REPLACEMENTS SHALL BE BY CONTRACTOR.
 6. THE EXISTING CASTING ON STR. 110 (EXISTING BOX CULVERT) IS TO BE REPLACED WITH A LARGER CASTING AND THE HOLE INTO THE BOX MUST BE MODIFIED TO PROVIDE A COMPATIBLE SEAT FOR THE FRAME. THE EXISTING HOLE IS TO BE WIDENED TO THE SOUTH TO ALLOW FOR EJWV 7510 WITH 7030 T1 BACK, M3 GRATE AND TO ALLOW FOR ALIGNMENT OF CURB BOX WITH PROPOSED CURB. NOTE THAT THIS WILL REQUIRE THE PARTIAL REMOVAL OF THE EXISTING CULVERT TOP TO A DEPTH OF APPROXIMATELY 6', BUT THAT IT IS DESIRED TO RETAIN AS MUCH OF THE EXISTING CULVERT TOP AS IS FEASIBLE. IT IS DESIRED THAT THE REMOVAL BE SLOPED TOWARD THE EXISTING HOLE TO ALLOW WATER FROM THE CASTING ABOVE, BUT TO RETAIN AS MUCH OF THE CULVERT TOP AS POSSIBLE. CBU APPROVAL OF THIS WORK, ONCE EXPOSED AND VERIFIED, IS REQUIRED PRIOR TO REMOVAL OF ANY PORTION OF THE CULVERT TOP.



RECOMMENDED FOR APPROVAL: *B. Ridgway* DESIGN ENGINEER DATE: 2/9/2016

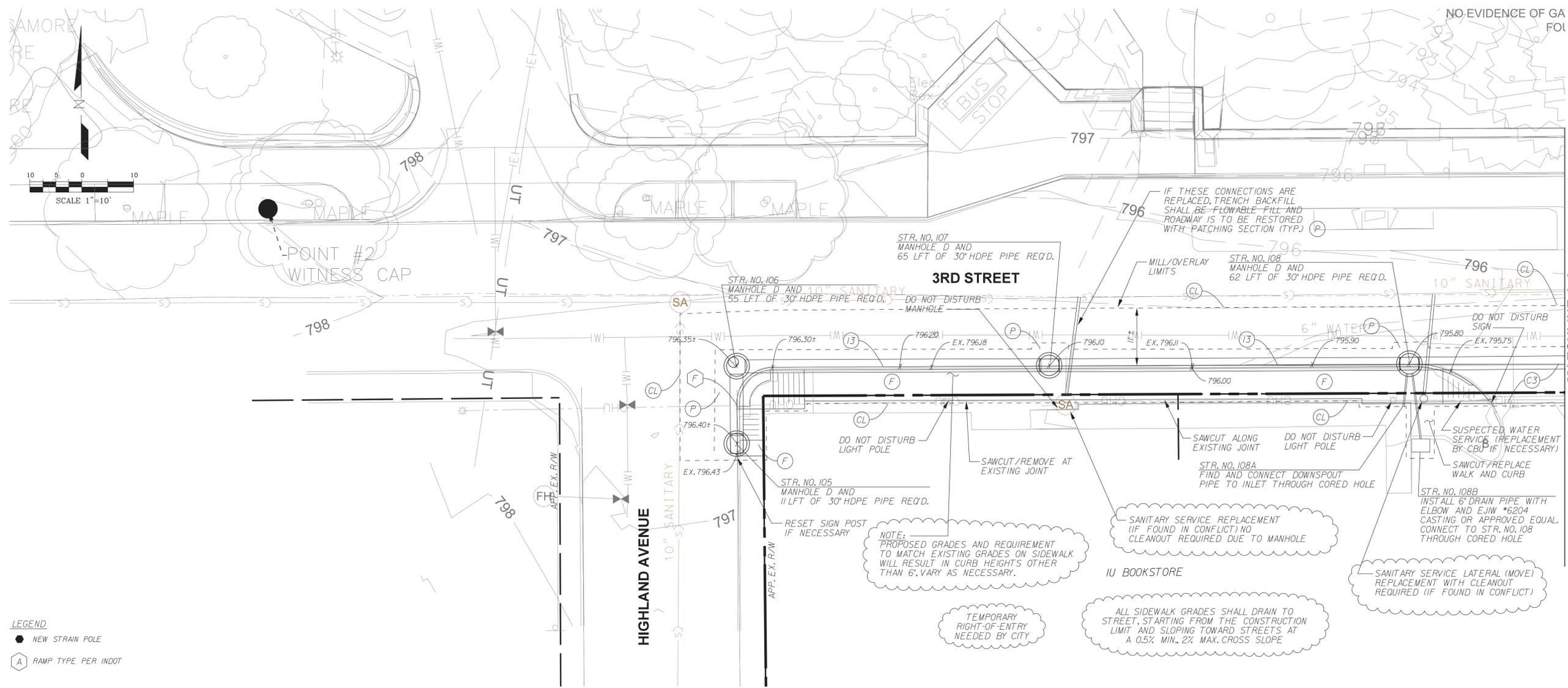
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CHECKED: MT CHECKED: BR

CITY OF BLOOMINGTON

TYPICAL DETAILS AND RAMP STANDARD DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
SURVEY BOOK	DESIGNATION
CONTRACT	SHEETS
	2 of 5
	PROJECT
	3RD ST AND JORDAN AVE.



LEGEND
 ● NEW STRAIN POLE
 A RAMP TYPE PER INDOT

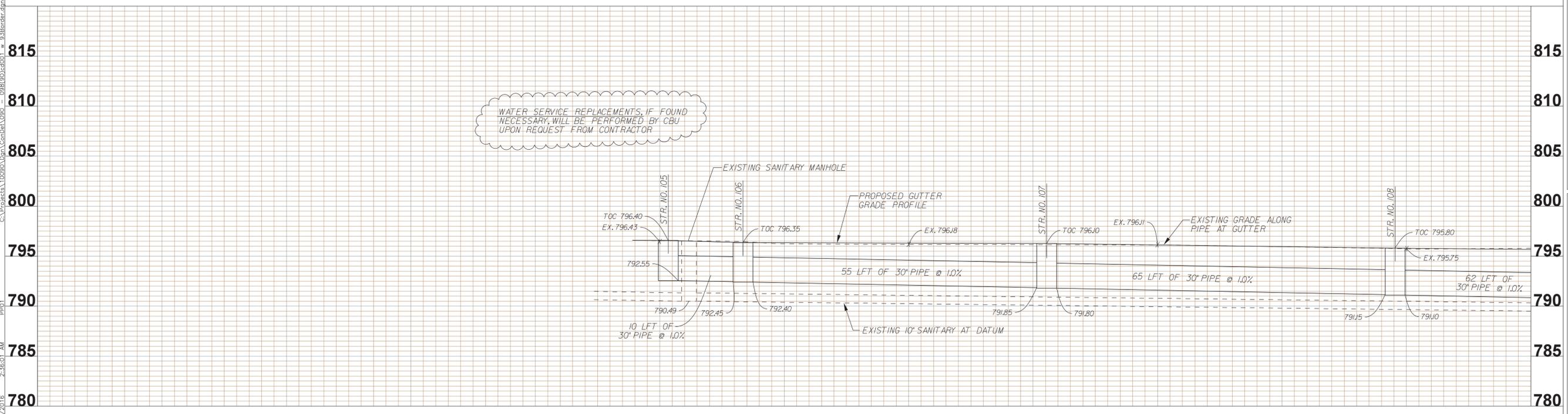
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY BE PRESENT. ACTUAL LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.

NOTE: PROPOSED GRADES AND REQUIREMENT TO MATCH EXISTING GRADES ON SIDEWALK WILL RESULT IN CURB HEIGHTS OTHER THAN 6", VARY AS NECESSARY.

TEMPORARY RIGHT-OF-ENTRY NEEDED BY CITY

ALL SIDEWALK GRADES SHALL DRAIN TO STREET, STARTING FROM THE CONSTRUCTION LIMIT AND SLOPING TOWARD STREETS AT A 0.5% MIN., 2% MAX. CROSS SLOPE

SANITARY SERVICE LATERAL (MOVE) REPLACEMENT WITH CLEANOUT REQUIRED (IF FOUND IN CONFLICT)



WATER SERVICE REPLACEMENTS, IF FOUND NECESSARY, WILL BE PERFORMED BY CBU UPON REQUEST FROM CONTRACTOR

MATCHLINE A-A

REVISIONS	DATE	BY

PREPARED BY:

 1321 Laurel Oak Drive
 Avon, Indiana 46123
 (317) 970-9672

REGISTERED PROFESSIONAL ENGINEER
 No. 14300092
 STATE OF INDIANA

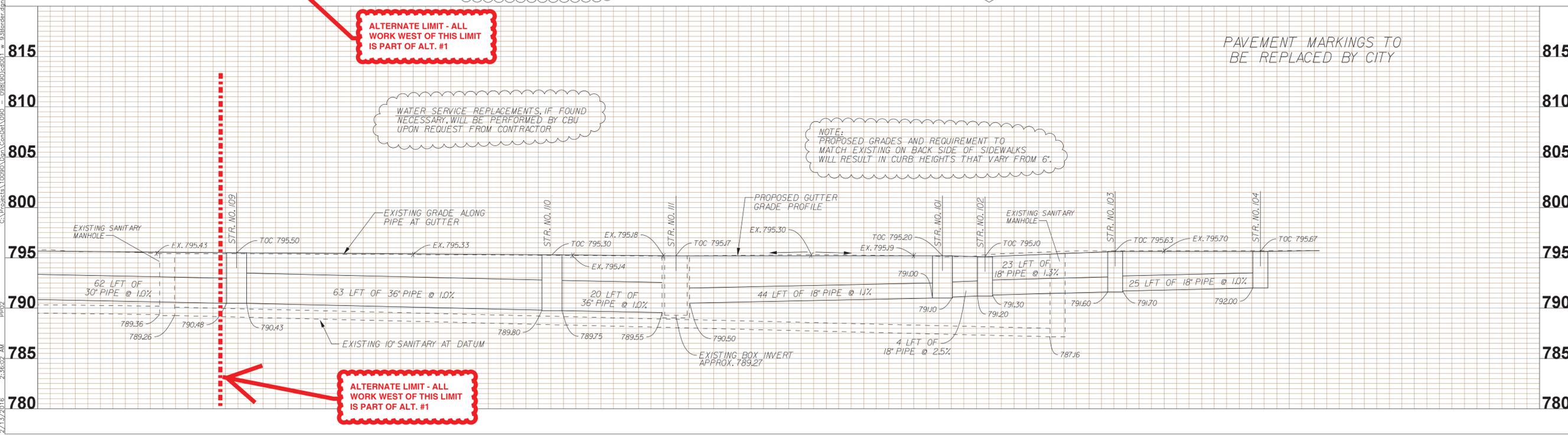
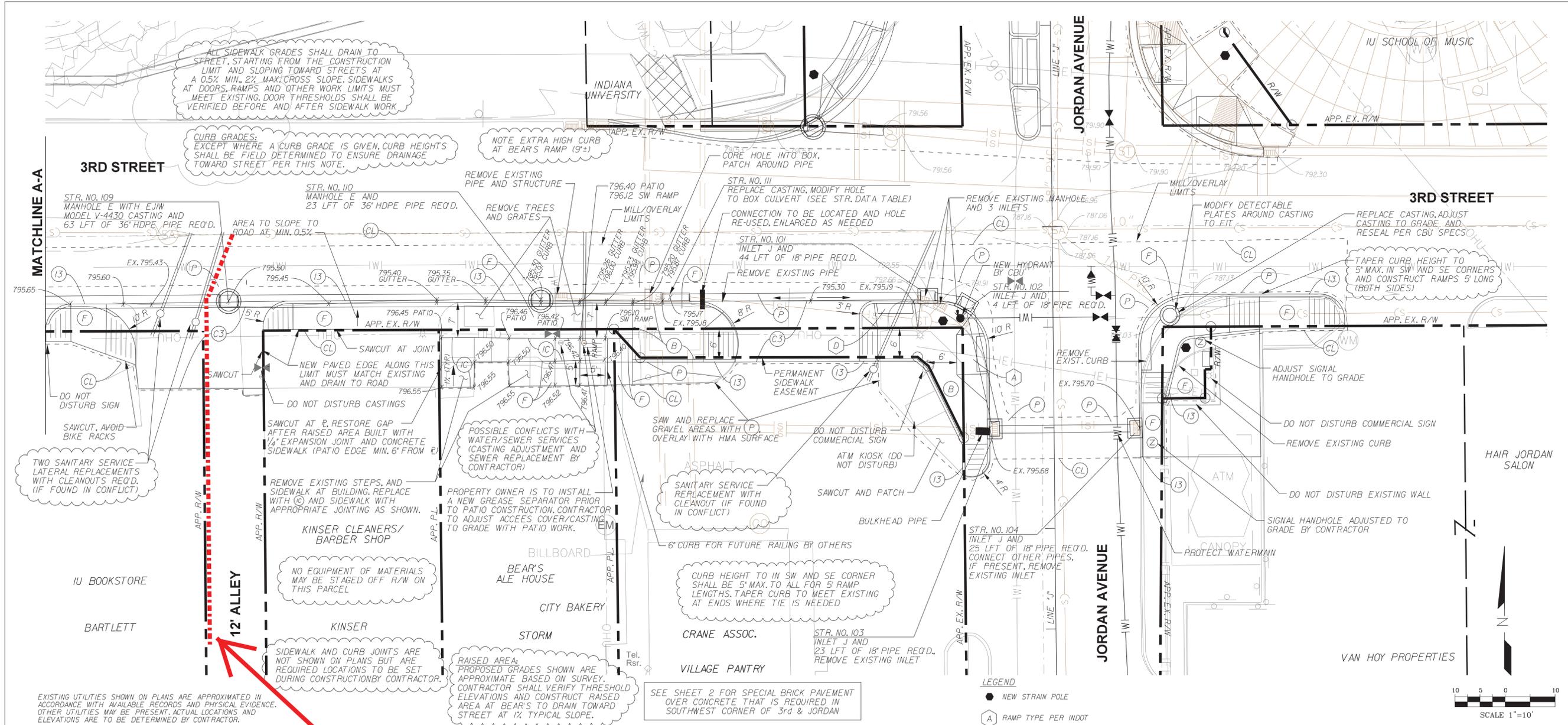
RECOMMENDED FOR APPROVAL	DESIGNER	DATE	DATE	SCS	BR
			2/19/2016		

DESIGNED:	BR	DRAWN:	SCS	CHECKED:	BR

CITY OF BLOOMINGTON
 INTERSECTION IMPROVEMENTS AT
 3RD STREET AND JORDAN AVENUE

CONSULTANT PROJECT NUMBER	SHEET	OF
ERCES 090	3	5

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REVISIONS	DATE	BY

PREPARED BY:	DESIGNED BY:	CHECKED BY:
<i>B. Blyden</i>	BR	BR

RECOMMENDED FOR APPROVAL	DATE
<i>B. Blyden</i>	2/19/2016

DESIGNED:	SCALE:
BR	SCS

CHECKED:	DATE:
BR	2/19/2016

CONSULTANT PROJECT NUMBER	SHEET	OF
ERCES 090	4	5

CITY OF BLOOMINGTON

INTERSECTION IMPROVEMENTS AT 3RD STREET AND JORDAN AVENUE

