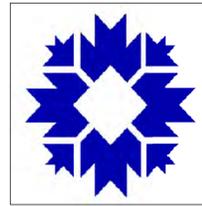
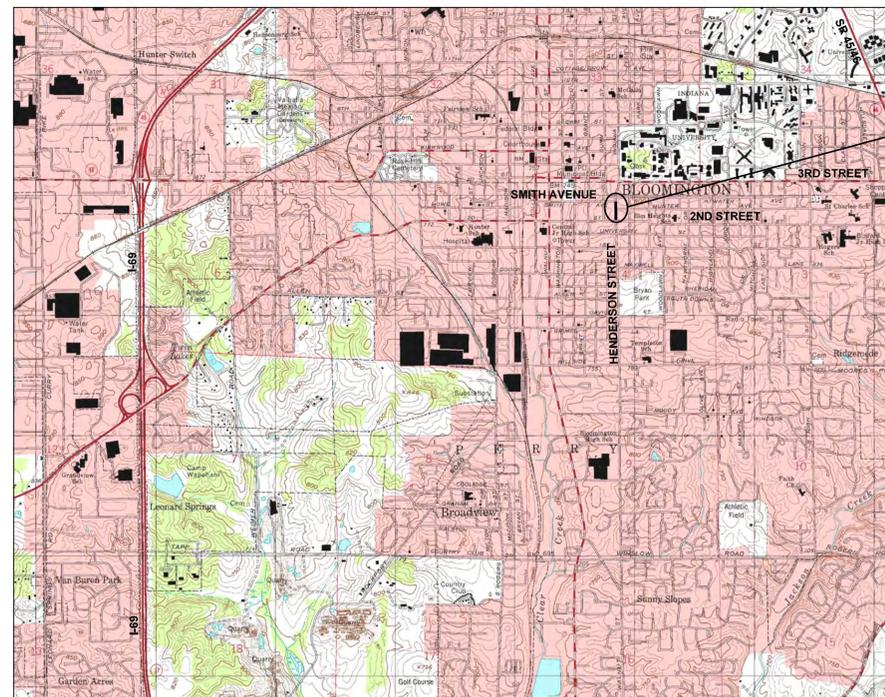


CITY OF BLOOMINGTON DEPARTMENT OF ENGINEERING



HENDERSON STREET IMPROVEMENT 2ND STREET TO SMITH AVENUE



PROJECT LOCATION



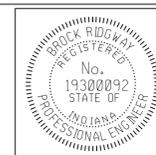
PROJECT LOCATION MAP
CITY OF BLOOMINGTON, MONROE COUNTY

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS CURRENT EDITION
TO BE USED WITH THESE PLANS.

PREPARED BY:



1321 Laurel Oak Drive
Avon, Indiana 46123
(317)370-9672



PLANS
PREPARED BY:

CERTIFIED BY:

APPROVED
FOR LETTING:



EAGLE RIDGE
CIVIL ENGINEERING SERVICES, LLC

(317) 370-9672
PHONE NUMBER

10-5-2022
DATE

DATE

SHEETS	
1	8
PROJECT	

HENDERSON STREET IMPROVEMENT

UTILITIES

CABLE TELEVISION COMCAST ATTN: STEVE McARTOR 2450 SOUTH HENDERSON ST. BLOOMINGTON, IN 47401 (812) 360-3090	ELECTRIC DUKE (DISTRIBUTION) ATTN: CHRISTINA GIROD 16475 SOUTH PARK DRIVE WESTFIELD, IN 46074 (812) 273-9596 christina.girod@duke-energy.com	TELEPHONE/COMMUNICATIONS (CONT.) AT & T PRIMARY: JOHN HALL (812) 334-4742 ALT: TOD MOORE (812) 334-4718 4517 INDIANA BELL COURT BLOOMINGTON, IN 47408
GAS CENTERPOINT ENERGY ATTN: ARIEL THOMAS 205 SOUTH MADISON BLOOMINGTON, IN 47404 (812) 330-4018 ariel.thomas@centerpoint.com	STORM/SANITARY/WATER CITY OF BLOOMINGTON UTILITIES ATTN: PHIL PEDEN 600 E. MILLER DRIVE BLOOMINGTON, IN 47401 (812) 349-3634 pedenp@bloomington.in.gov	SMITHVILLE TELEPHONE CO. ATTN: JOE BRYNIARSKI 1600 W. TEMPERANCE ST. ELLETTSVILLE, IN 47429-0729 (812) 935-2262 joe.bryniarski@smithville.com
FOR SERVICE RELOCATIONS (48 HOUR NOTICE NEEDED) ATTN: DATA BLOOMINGTON DIGITAL UNDERGROUND ATTN.: RICK DIETZ ITS DEPT., CITY HALL 401 N. MORTON ST. SUITE 150 BLOOMINGTON, IN 47404 (812) 349-3485	TELEPHONE/COMMUNICATIONS US SIGNAL ATTN: JOHN LUNDELL 201 IONIA AVENUE SW GRAND RAPIDS, MI 49503 (616) 988-7117 jlundell@ussignal.com	CITY OF BLOOMINGTON CITY OF BLOOMINGTON STREET DEPARTMENT ATTN: FREDDIE LOVE 1981 S. HENDERSON STREET BLOOMINGTON, IN 47401 (812) 349-3448 freddie.love@bloomington.in.gov
	CENTURYLINK (FORMERLY LEVEL 3 AND GTE) ATTN: DEWAYNE HAMILTON 4625 WEST 86TH STREET INDIANAPOLIS, IN 46268 (317) 966-3356 dewayne.hamilton@centurylink.com	ZAYO ATTH: WAYLON HIGGINS 9209 CASTLE GATE DRIVE INDIANAPOLIS, IN 46256 (765) 341-1199 waylon.higgins@zayo.com

GENERAL NOTES

1	ALL REMOVAL AND EXCAVATION ITEMS ARE TO BE PAID AS CLEARING,
2	ALL RADII ARE TO BACK OF CURB LINE.
3	USE OF INDOT STANDARD SPECIFICATIONS: UNLESS OTHERWISE PROVIDED IN THESE PLANS OR THE TECHNICAL SPECIFICATIONS, MATERIALS AND WORKMANSHIP OF THE WORK SHALL BE AS REQUIRED BY THE CURRENT EDITION OF THE INDOT STANDARD SPECIFICATIONS.
4	USE OF PROPERTY: NO MATERIALS OR EQUIPMENT SHALL BE STORED IN A LOCATION OR MANNER WHICH PRESENTS A HAZARD TO THE PUBLIC OR THE ENVIRONMENT. THE SAFEGUARD OF MATERIALS REMAINING IN THESE AREAS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5	PRESENCE OF UTILITIES: MOST OF THIS PROJECT IS PRESENTED ON A GIS BASE MAP AND UTILITIES ARE NOT SHOWN. EXISTING UTILITIES THAT ARE SHOWN ON PLANS ARE APPROXIMATED IN ACCORDANCE WITH AVAILABLE RECORDS/LOCATOR'S MARKINGS, AND PHYSICAL EVIDENCE. OTHER UTILITIES MAY ALSO BE PRESENT. EXACT LOCATIONS AND ELEVATIONS ARE TO BE DETERMINED BY CONTRACTOR.
6	UTILITY LOCATIONS: CONTRACTOR IS REQUIRED BY LAW TO NOTIFY INDIANA UNDERGROUND LOCATION SERVICE AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION WORK. CONTACT NUMBER IS 811. OTHER LOCAL UTILITIES MAY NOT BE SUBSCRIBERS AND MUST BE CONTACTED INDIVIDUALLY FOR LOCATE REQUESTS.
7	INCIDENTAL WORK: ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHER WORK WHICH MAY BE INCIDENTAL TO THE DENOTED WORK SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICES ITEMS OF THE CONTRACT
8	STAKING: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STAKING.

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX / GENERAL NOTES / LEGEND / UTILITY DATA
3	TYPICAL DETAILS / SIGN TABLE
4 - 5	GREENWAY PLANS - HENDERSON STREET
6 - 7	STREET DETAILS
8	MAINTENANCE OF TRAFFIC PLANS

GENERAL LEGEND (EXISTING SCREENED, PROPOSED IN BOLD)

	LIGHT POLE		WATER METER
	WATER VALVE		GAS VALVE
	INLETS		GAS METER
	HYDRANT		BOLLARD
	TREES		DOWNSPOUT
	SIGN		STORM
	POWER POLE		UNDERGROUND ELECTRIC
	MANHOLE (STORM, SANITARY)		UNDERGROUND TELEPHONE
	TELECOM MANHOLES		OVERHEAD UTILITY
	AIR CONDITIONER		WATERMAINS/WATER LINES
	TELE. RISER		GAS MAINS/LINE
	ELEC. RISER		GUARDRAIL
	TELECOM MANHOLES		WOOD FENCE
	PARKING METER		
	MAILBOX		

MAINTENANCE OF TRAFFIC AND EROSION CONTROL ITEMS

	INDOT STANDARD DRUM WITH STEADY BURN LIGHTS
	TEMPORARY CONSTRUCTION FENCING, 48" MESH, ORANGE, ON TEMPORARY STANDS
	BARRICADE (TYPE III)
	CONSTRUCTION SIGNS (SHAPE PER MUTCD)

PROPOSED ITEMS

	EXISTING R/W		ADJUST CASTING TO GRADE
	CONCRETE CURB, VERTICAL, ALL PROFILES		PCCP FOR APPROACHES, 9" ON 6" COMPACTED AGGREGATE NO. 53s, IN TWO LIFTS
	MODIFIED CURB AND GUTTER, B		CONSTRUCTION LIMITS
	NURSERY SODDED AREA - INCLUDED UP TO 6" TOPSOIL UNLESS OTHERWISE NOTED		CAST STEEL DETECTABLE WARNING PLATES (ON RADIUS, IF RADIUS LABELLED)
	24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC		CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE No. 53s
	ARROW, THERMOPLASTIC		FURNISH CASTING AND ADJUST TO GRADE, INLET
	4" YELLOW, SOLID LINE, THERMOPLASTIC		CONCRETE SIDEWALK, 6" ON 4" COMPACTED AGGREGATE NO. 53s
	4" YELLOW SKIP LINE (3' LINE, 9' GAP) (SEE PLANS FOR MODIFIED AREAS) THERMOPLASTIC		PCCP FOR PATCHING, 12", COVERED WITH 1.5" HMA SURFACE
	BIKE SYMBOLS, THERMOPLASTIC		RAMP, CONCRETE INCLUDING STEEL DETECTABLE WARNING PLATES 6" THICK ON 4" COMPACTED AGGREGATE BASE NO. 53s
	WHITE CHEVRONS (PAIR), THERMOPLASTIC		TURNING SPACE (TYP. 1.5%, MAX. 2.0% IN ALL DIRECTIONS)
	WHITE CHEVRONS ON GREEN BACKGROUND, THERMOPLASTIC		CARPINUS CAROLINIANA (AMERICAN HORNBEAM), OVER 2 INCH TO 2.5 INCH CALIPER
	12" YELLOW CROSSHATCH ON 20' CENTERS, THERMOPLASTIC		AMELANCHIER X GRANDIFLORA (CROSS OF ALLEGHENY SERVICEBERRY AND DOWNY SERVICEBERRY) OVER 2 INCH TO 2.5 INCH CALIPER (THESE SPECIES SHALL BE SOUGHT, THOUGH IN THE EVENT OF LIMITED AVAILABILITY, ALTERNATES MAY BE APPROVED FROM THE CITY UDO'S PERMITTED STREET TREE SPECIES LIST OF SMALL STREET TREES)
	RESET EXISTING SIGN ON NEW TYPE 1 POST WITH UNREINFORCED ANCHOR BASE		
	NEW SIGN ON TYPE 1 POST WITH UNREINFORCED ANCHOR BASE		

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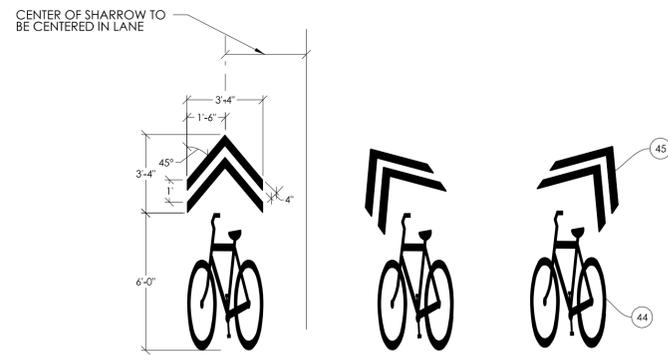


RECOMMENDED FOR APPROVAL		10-5-2022
	DESIGN ENGINEER	DATE
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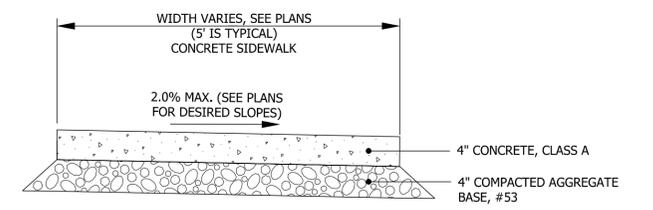
CITY OF BLOOMINGTON DEPARTMENT OF ENGINEERING	
INDEX / GENERAL NOTES / LEGEND / UTILITY DATA	

HORIZONTAL SCALE	ERCES PROJECT NUMBER
VERTICAL SCALE	240
N/A	SHEET NUMBER
	2

SHEET SIGN SUMMARY TABLE																		
SIGN DATA																		
LOCATION	BLOCK	EAST	WEST	SIGN DESCRIPTION	SIGN CODE	SIGN SIZE (in. x in.)	RELOCATE EXISTING SIGN EACH	REMOVE SIGN- (Paint as Clearing) EACH	NEW SIGN	ENCAPSULATED LENS METAL THICKNESS (in.)			SIGN POST			REMARKS		
										0.080 SFT	0.100 SFT	0.125 SFT	TYPE 1 2.25" x 2.25" x 12 ga. UNREINFORCED ANCHOR BASE POST LENGTH (FT)					
										1	2	TOTAL						
North of 2nd St - NW Corner		X		STOP	R1-1	30 x 30			1	6.25			12		12			
		X		ALL WAY	R1-3P	18 x 6			1	0.75								Mount with Stop
North of 2nd, (~10+60)		X		Existing Begin One Way	Existing	Existing	1						12		12			Reset sign to new post to add sign under it
		X		EXCEPT BICYCLES	Custom	18 x 12			1	1.50								Add under Begin One Way
~11+70		X		EXCEPT BICYCLES	Custom	18 x 12			1	1.50								Add under east-facing One Way
~11+80		X		EXCEPT BICYCLES	Custom	18 x 12			1	1.50								Add under east-facing One Way
~12+25		X	X	EXCEPT BICYCLES	Custom	18 x 12			1	1.50								Add under west-facing One Way
~12+40		X		EXCEPT BICYCLES	Custom	18 x 12			1	1.50								Add under west-facing One Way
~12+95		X		Combination Bike and Ped Crossing	W11-15	30 x 30			1	6.25			12		12			
		X		Down Arrow Left	W16-7P	24 x 12			1	2.00								Mount with Combination Bike/Ped Crossing
~13+50, NE Corner at Hunter		X		Existing Stop	Existing	Existing	1						12		12			Reset Stop and One Way together
		X		Existing One Way	Existing	Existing	1											Reset Stop and One Way together
~13+50, 30' east of Hunter		X		BIKE ROUTE	D11-1	24 x 18			1	3.00			12		12			Mount with Bike Route
		X		Arrow Right	M6-1	12 x 9			1	0.75								Mount with Bike Route
~13+65		X		BIKE ROUTE	D11-1	24 x 18			1	3.00			12		12			Mount with Bike Route
		X		Arrow Left	M6-1	12 x 9			1	0.75								Mount with Bike Route
~15+00		X		BIKE ROUTE	D11-1	24 x 18			1	3.00			12		12			Mount with Bike Route
		X		Arrow Left	M6-1	12 x 9			1	0.75								Mount with Bike Route
~15+15, 50' west of Henderson		X		BIKE ROUTE	D11-1	24 x 18			1	3.00			12		12			Mount with Bike Route
		X		Arrow Right	M5-1	12 x 9			1	0.75								Mount with Bike Route, White on Green Background
		X		USE SIDEWALK	Custom	18 x 12			1	1.50								Mount with Bike Route, White on Green Background
TOTALS									3	0								96
PAY UNIT									EACH	EACH								LFT



44 SHARED LANE MARKINGS AND CHEVRON DIMENSIONS
NOT TO SCALE



F TYPICAL SIDEWALK DETAIL
NOT TO SCALE

SIDEWALK JOINT NOTES:

- INSTALL 1/2" PREFORMED JOINT FILLER BETWEEN SIDEWALKS AND ANY OTHER FIXED FEATURES (CURBS, STEPS, RAMPS, BUILDINGS, ETC.)
- IN EACH SIDEWALK SEGMENT, SAW CONSTRUCTION JOINTS AT EVEN SPACING BUT NO MORE THAN 6' MAXIMUM APART. INSTALL AN EXPANSION JOINT WITH 1/2" PREFORMED JOINT FILLER AT A MAXIMUM SPACING EVERY 30' IN SIDEWALKS, AND AT EACH SIDEWALK CONNECTION TO OTHER SIDEWALKS, AT CURBS, AND AT RAMPS.
- CONTRACTION AND EXPANSION JOINTS SHALL BE INSTALLED BY SAWING, BUT FINAL SURFACE SHALL BE BROOM FINISHED. NO "WINDOW-PANE" OR SIMILAR TOOLING SHALL BE USED.

CONCRETE SLAB JOINT NOTES:

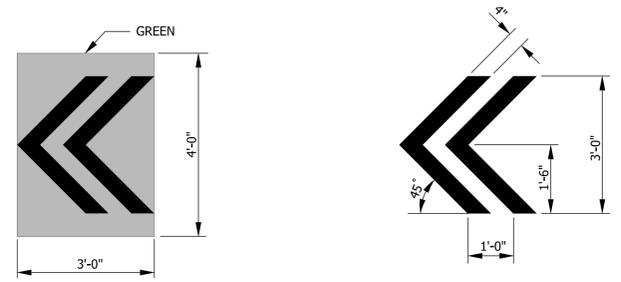
- CONCRETE SLAB CONSTRUCTION AND EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH INDOT STANDARDS.

CURB JOINT NOTES:

- ALL CURBS SHALL RECEIVE A FULL DEPTH EXPANSION JOINT FORMED WITH 1/2" PREFORMED JOINT FILLER AT THE FOLLOWING LOCATIONS:
 - EVERY EXPANSION JOINT IN ADJACENT SIDEWALKS OR MEDIAN BUFFER STRIP
 - AT EACH RADIUS POINT
 - 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
- CURBS & COMBINED CURB AND GUTTER SHALL RECEIVE A SAWED CONTRACTION JOINT AT 20' MAXIMUM SPACING.

CURB RAMPS AND TRUNCATED DOMES:

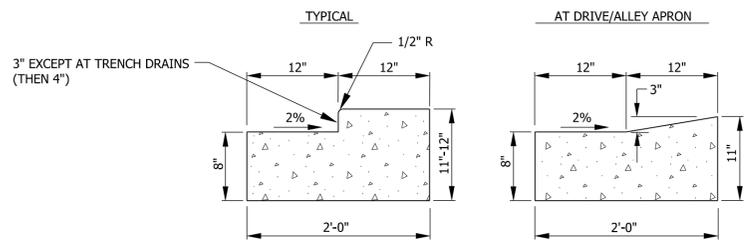
- RAMPS TO BE CONSTRUCTED AT A MAXIMUM 12:1 SLOPE TO A LANDING AREA FOR ENTRY ONTO ROADWAY PER PLANS.



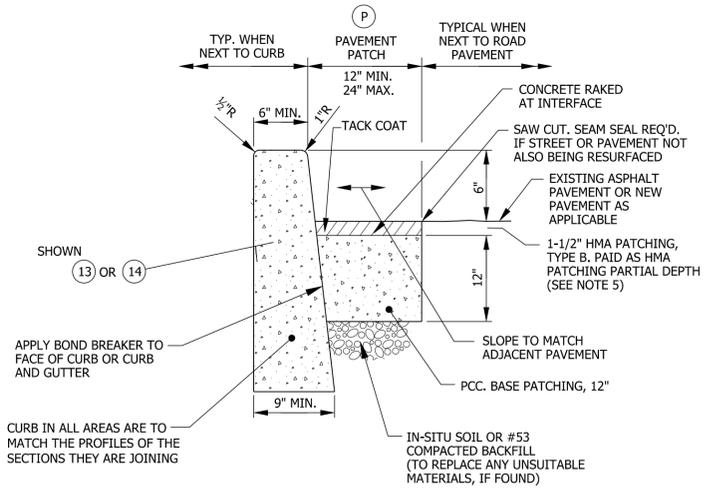
GREEN DETAIL
NOT TO SCALE

WHITE DETAIL
NOT TO SCALE

45G WHITE CHEVRON ON GREEN BACKGROUND
NOT TO SCALE



14 MODIFIED COMBINED CONCRETE CURB AND GUTTER, TYPE B
NOT TO SCALE



13 P PAVEMENT PATCH
NOT TO SCALE

NOTES:

- REFER TO CURB JOINTS NOTES FOR CURB JOINTING.
- 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. OWNER APPROVAL IS REQUIRED.
- PAVEMENT PATCHING REQUIRED WHEREVER PAVEMENT IS CUT FOR PIPE WORK, AND WHERE EXISTING PAVEMENT IS DAMAGED TO COMPLETE THE REQUIRED CURB, DRIVE OR SIDEWALK WORK.
- CONTRACTOR SHALL ASSUME THEY ARE TO PLACE THE ASPHALT OVERLAY ON ALL PATCHED AREAS UNLESS OTHERWISE DIRECTED.

TRENCH DRAIN REQUIREMENTS:

- SUBMIT THE PROPOSED CASTING FOR ENGINEER APPROVAL.
- TRENCH DRAINS ARE TO INCLUDE A REINFORCED CONCRETE TRENCH WITH A COMPATIBLE ADA GRATE.
- TRENCH DRAIN CASTING TO BE EAST JORDAN MODEL V-7382 ADA, NEENAH MODEL R-4990-BX WITH TYPE "P" GRATES OR AN APPROVED EQUAL.
- EACH LOCATION WILL REQUIRE A CAST-IN-PLACE TRENCH WITH A FIELD-SHAPED CAST-IN-PLACE TRANSITION FROM DRAIN PIPE TO CONCRETE TRENCH THAT FORCES WATER TO SPREAD INTO THE TRENCH AND NOT OVERTOP THE SIDEWALK AND TRENCH GRATE CASTING. A PVC DOWNSPOUT TRANSITION OR OTHER STAY-IN-PLACE FORM PIECE MAY BE USED FOR THIS PURPOSE.
- TRENCH SHALL PROVIDE AN OPEN WATERWAY OF 8" WIDE TRENCH TO BE TOTAL 4" DEEP WITH CASTING TO OCCUPY 1.5" SEAT DEPTH (RESULTING OPENING 2.5" BELOW GRATE).

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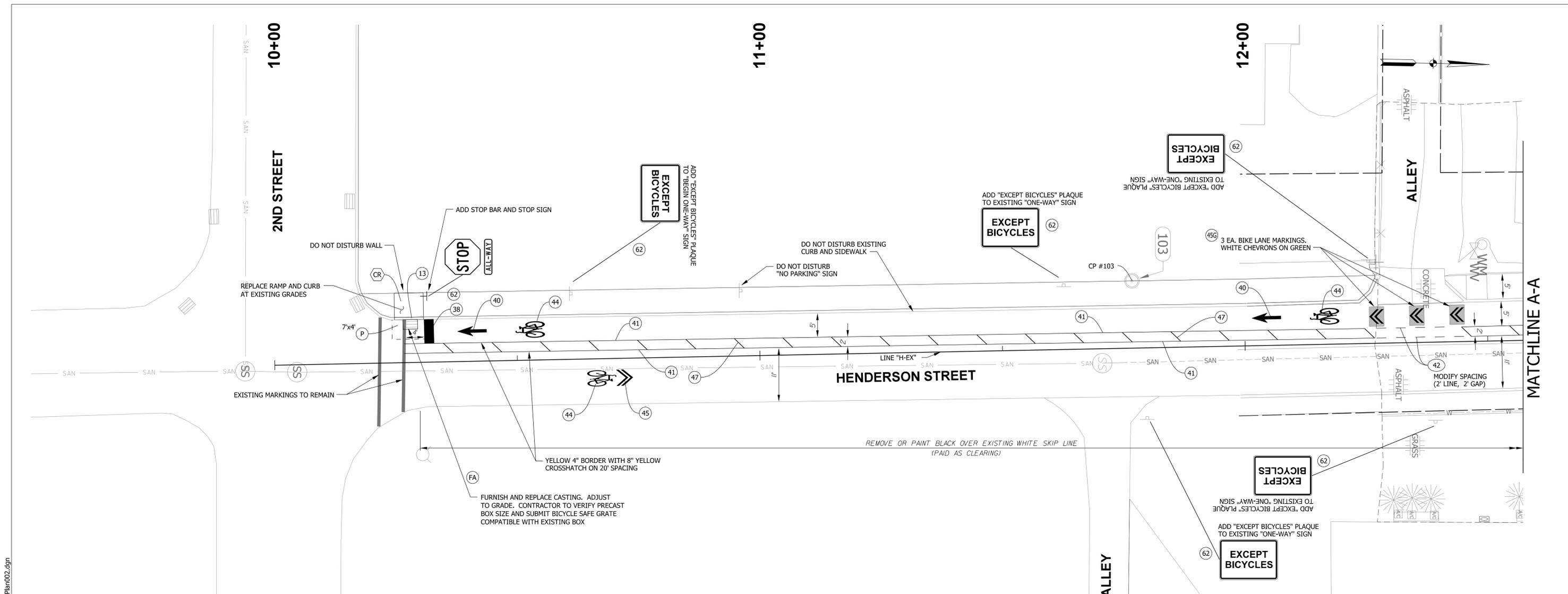


RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-5-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
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CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

MISCELLANEOUS DETAILS
HENDERSON STREET

HORIZONTAL SCALE	ERCES PROJECT NUMBER
AS NOTED	240
VERTICAL SCALE	
	SHEET NUMBER
	3



ESTIMATE OF PAVEMENT AND MISCELLANEOUS QUANTITIES TABLE

STATION RANGE	PAVEMENT											PAVEMENT MARKINGS											TREES		CURB AND GUTTER REMOVAL		PAVEMENT AND SIDEWALK REMOVAL								
	CONCRETE SIDEWALK, 4"	CONCRETE SIDEWALK, 6"	MODIFIED CURB AND GUTTER, B	CURB	CURB RAMPS	DETECTABLE WARNING PLATES	PCCP FOR APPROACHES, 9"	PCCP FOR STREET PATCHING, 12"	6" UNDER DRIVE APRONS	4" UNDER SIDEWALKS & RAMPS	PATCHING SURFACE, B	TACK COAT	TRENCH DRAIN, 8" CONCRETE TRENCH WITH ADA CASTING	FURNISH CASTING AND ADJUST TO GRADE	MANHOLE, ADJUST TO GRADE	24" WHITE THERMOPLASTIC LINE, FOR CROSSWALKS	24" WHITE THERMOPLASTIC LINE, FOR STOP BARS	4" YELLOW THERMOPLASTIC LINE	4" YELLOW SKIP LINE, THERMOPLASTIC	12" YELLOW CROSSHATCH LINE, THERMOPLASTIC	BIKE SYMBOLS, THERMOPLASTIC	CHEVRONS (PAIR), THERMOPLASTIC	ARROW, THERMOPLASTIC	CHEVRONS (PAIR), WHITE ON GREEN, THERMOPLASTIC	CARPINUS CAROLINIANA	AMELANCHIER X GLANDIFLORA	SODDING, NURSERY	TOPSOIL	BORROW	CURB OR CURB AND GUTTER REMOVAL, ALL TYPES	PAVEMENT AND SIDEWALK REMOVAL, ALL TYPES				
PLAN CODE >>	F	F6	14	13	CR	DW	C3	P	6"	4"	1.5"	P	P	AC	38	38	41	42	47	44	45	40	45G	T1	T2	26	26								
FROM	TO	SYS	SYS	LFT	LFT	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	EACH	EACH	LFT	LFT	LFT	LFT	EA	EA	EA	EA	EA	EA	EA	SYS	SYS	CYS	LFT	SYS			
10+00	10+50				7	4												5	46		5											7	8		
10+50	11+00																	100	13	2	1														
11+00	11+50																	100	13																
11+50	12+00																	100	13																
12+00	12+50																	60	40	10	1		3												
12+50	13+00																	100	13																
13+00	13+50		35	50	43	24	4	6		59	6	6		1	48		20		3	2	1	1				10	10					93	71		
13+50	14+00		36	50	35	8	1	41	6	40	44	6	6	11				35								9	9					85	91		
14+00	14+50		56	50	50				6	56	6	6	11					50						1	1	28	28	3				50	67		
14+50	15+00		56	50	15				6	56	6	6	11					50								1	3	3					50	67	
15+00	15+50	3	11	20	35	22	3		6		36	6	6				35	10								1	1						52	42	
Subtotal>		3	194	220	185	58	8	41	34	40	255	34	34	33	1	1	83	15	526	190	70	6	3	3	7	2	2	51	51	3	337	346			
Subtotal Units>		SYS	SYS	LFT	LFT	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	EA	EA	LFT	LFT	LFT	LFT	EA	EA	EA	EA	EA	EA	EA	SYS	SYS	CYS	LFT	SYS			
Pay Total>		3	194	220	185	58	8	41	34	40	255	34	34	33	1	1	83	15	526	190	70	6	3	3	7	2	2	51	51	3					
Pay Units>		SYS	SYS	LFT	LFT	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	LFT	EA	EA	LFT	LFT	LFT	LFT	EA	EA	EA	EA	EA	EA	EA	SYS	SYS	CYS	LFT	SYS			

LEGEND:

- 38 24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC
- 40 ARROW, THERMOPLASTIC
- 41 4" YELLOW, SOLID LINE, THERMOPLASTIC
- 42 4" YELLOW, SKIP LINE (3' LINE, 9' GAP) (SEE PLANS FOR MODIFIED AREAS) THERMOPLASTIC
- 44 BIKE SYMBOLS, THERMOPLASTIC
- 45 WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC
- 45G WHITE CHEVRONS ON GREEN BACKGROUND, THERMOPLASTIC
- 47 12" YELLOW CROSSHATCH ON 20' CENTERS, THERMOPLASTIC
- 56 RESET EXISTING SIGN ON NEW TYPE 1 POST WITH UNREINFORCED ANCHOR BASE
- 62 NEW SIGN ON TYPE 1 POST WITH UNREINFORCED ANCHOR BASE



RECOMMENDED FOR APPROVAL: *Bridgway* DESIGN ENGINEER 10-5-2022 DATE

DESIGNED: BR DRAWN: RBA

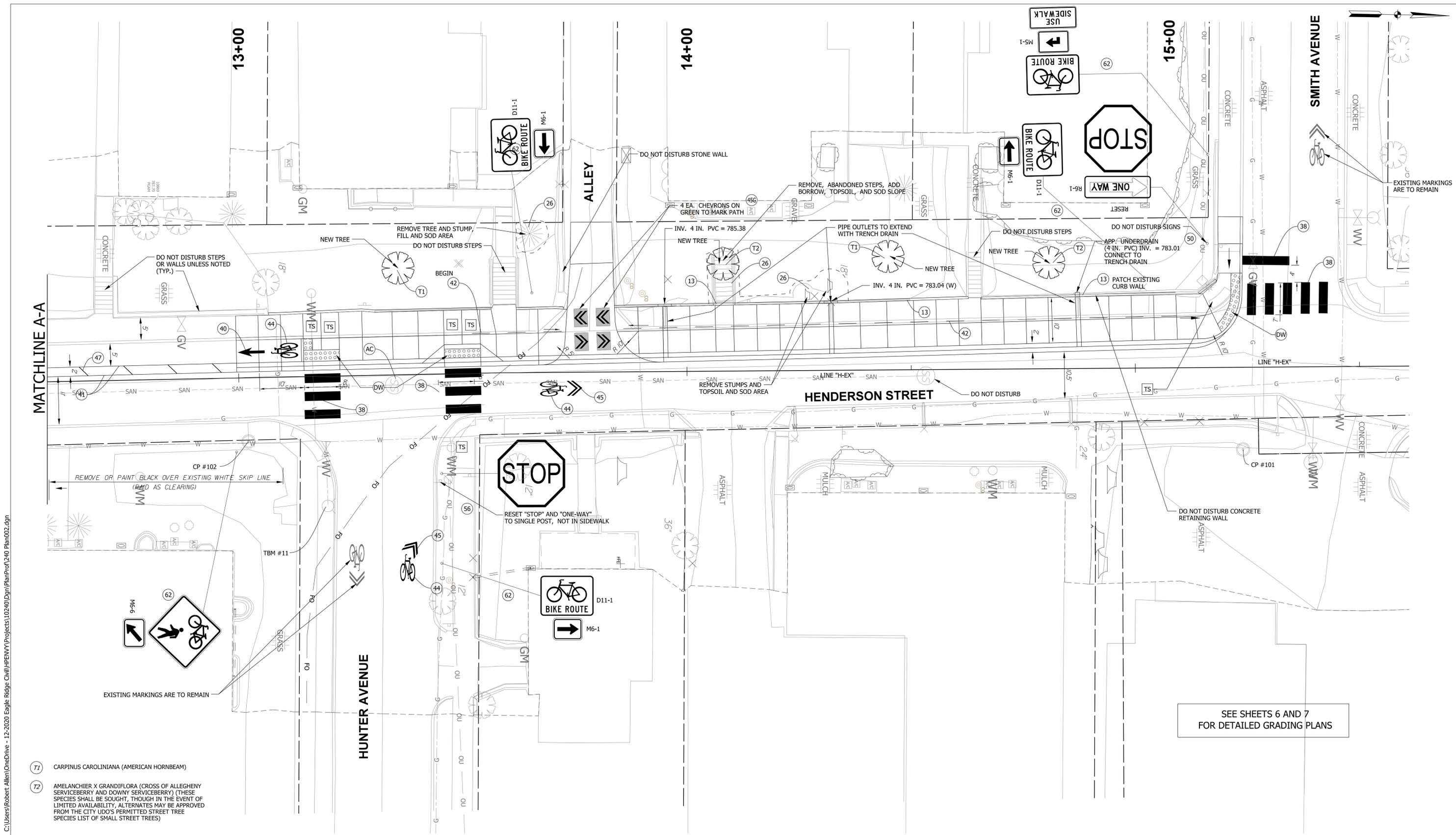
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CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

NEIGHBORHOOD GREENWAY PLANS
HENDERSON STREET

HORIZONTAL SCALE	ERCES PROJECT NUMBER
1" = 10'-0"	240
VERTICAL SCALE	
	SHEET NUMBER
	4

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- (71) CARPINUS CAROLINIANA (AMERICAN HORNBEAM)
- (72) AMELANCHIER X GRANDIFLORA (CROSS OF ALLEGHENY SERVICEBERRY AND DOWNY SERVICEBERRY) (THESE SPECIES SHALL BE SOUGHT, THOUGH IN THE EVENT OF LIMITED AVAILABILITY, ALTERNATES MAY BE APPROVED FROM THE CITY UDO'S PERMITTED STREET TREE SPECIES LIST OF SMALL STREET TREES)

LEGEND:

(38)	24" WHITE LINES FOR CROSSWALKS OR STOP BARS, THERMOPLASTIC	(44)	BIKE SYMBOLS, THERMOPLASTIC	(56)	RESET EXISTING SIGN ON NEW TYPE 1 POST WITH UNREINFORCED ANCHOR BASE
(40)	ARROW, THERMOPLASTIC	(45)	WHITE CHEVRONS (FOR BIKE ROUTE), THERMOPLASTIC	(62)	NEW SIGN ON TYPE 1 POST WITH UNREINFORCED ANCHOR BASE
(41)	4" YELLOW, SOLID LINE, THERMOPLASTIC	(45G)	WHITE CHEVRONS ON GREEN BACKGROUND, THERMOPLASTIC	(AC)	ADJUST CASTING TO GRADE
(42)	4" YELLOW, SKIP LINE (3' LINE, 9' GAP) (SEE PLANS FOR MODIFIED AREAS) THERMOPLASTIC	(47)	12" YELLOW CROSSHATCH ON 20' CENTERS, THERMOPLASTIC		

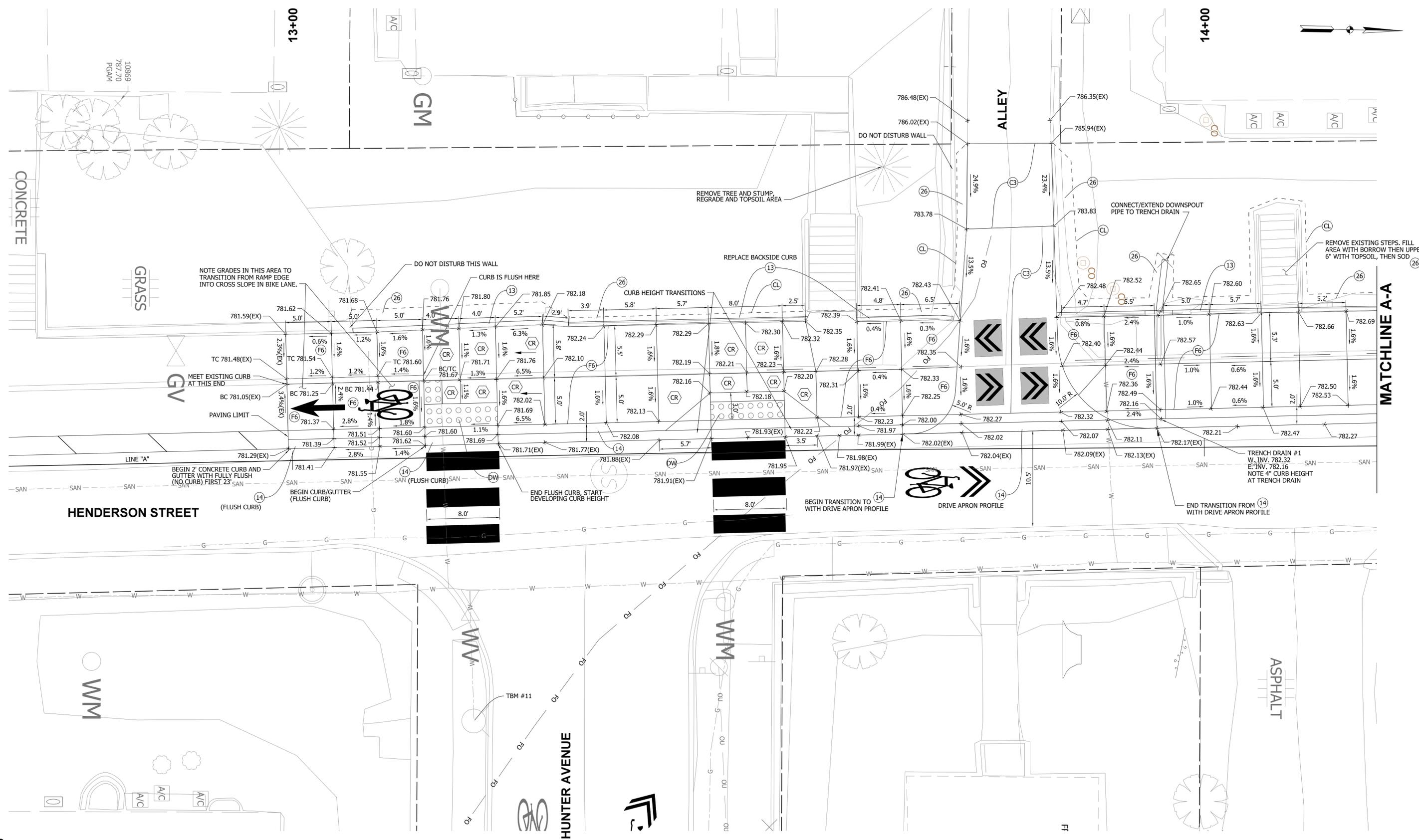


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DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING
NEIGHBORHOOD GREENWAY PLANS
HENDERSON STREET

HORIZONTAL SCALE	1" = 10'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE			
		SHEET NUMBER	5

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LEGEND:

(13)	CONCRETE CURB, VERTICAL, ALL PROFILES	(CL)	CONSTRUCTION LIMITS	(P)	PCCP FOR PATCHING, 12", COVERED WITH 1.5" HMA SURFACE
(14)	MODIFIED CURB AND GUTTER, B	(DW)	CAST STEEL DETECTABLE WARNING PLATES (ON RADIUS, IF RADIUS LABELLED)	(CR)	RAMP, CONCRETE INCLUDING STEEL DETECTABLE WARNING PLATES 6" THICK ON 4" COMPACTED AGGREGATE BASE NO. 53s
(26)	NURSERY SODDED AREA - INCLUDED UP TO 6" TOPSOIL UNLESS OTHERWISE NOTED	(F)	CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE NO. 53s	(TS)	TURNING SPACE (TYP. 1.5%, MAX. 2.0% IN ALL DIRECTIONS)
(AC)	ADJUST CASTING TO GRADE	(F6)	CONCRETE SIDEWALK, 6" ON 4" COMPACTED AGGREGATE NO. 53s		
(C3)	PCCP FOR APPROACHES, 9" ON COMPACTED AGGREGATE #53s				



RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-5-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

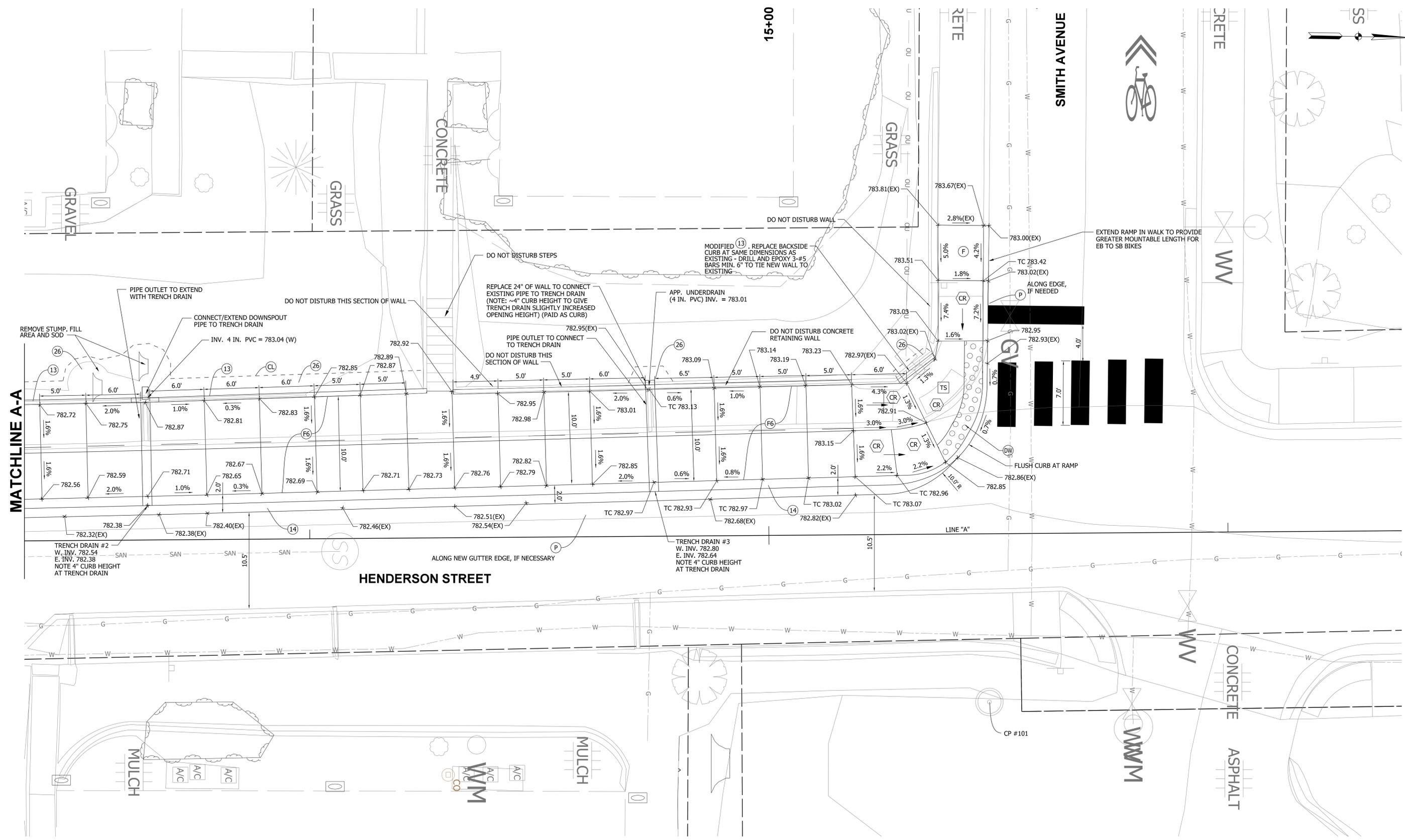
CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

HENDERSON / HUNTER
STREET DETAIL

HORIZONTAL SCALE	1"=5'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE			
		SHEET NUMBER	6

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MATCHLINE A-A



LEGEND:

13	CONCRETE CURB, VERTICAL, ALL PROFILES	CL	CONSTRUCTION LIMITS	P	PCCP FOR PATCHING, 12", COVERED WITH 1.5" HMA SURFACE
14	MODIFIED CURB AND GUTTER, B	DW	CAST STEEL DETECTABLE WARNING PLATES (ON RADIUS, IF RADIUS LABELLED)	CR	RAMP, CONCRETE INCLUDING STEEL DETECTABLE WARNING PLATES 6" THICK ON 4" COMPACTED AGGREGATE BASE NO. 53s
26	NURSERY SODDED AREA - INCLUDED UP TO 6" TOPSOIL UNLESS OTHERWISE NOTED	F	CONCRETE SIDEWALK, 4" ON 4" COMPACTED AGGREGATE NO. 53s	TS	TURNING SPACE (TYP. 1.5%, MAX. 2.0% IN ALL DIRECTIONS)
AC	ADJUST CASTING TO GRADE	F6	CONCRETE SIDEWALK, 6" ON 4" COMPACTED AGGREGATE #53s		
3	PCCP FOR APPROACHES, 9" ON COMPACTED AGGREGATE #53s				

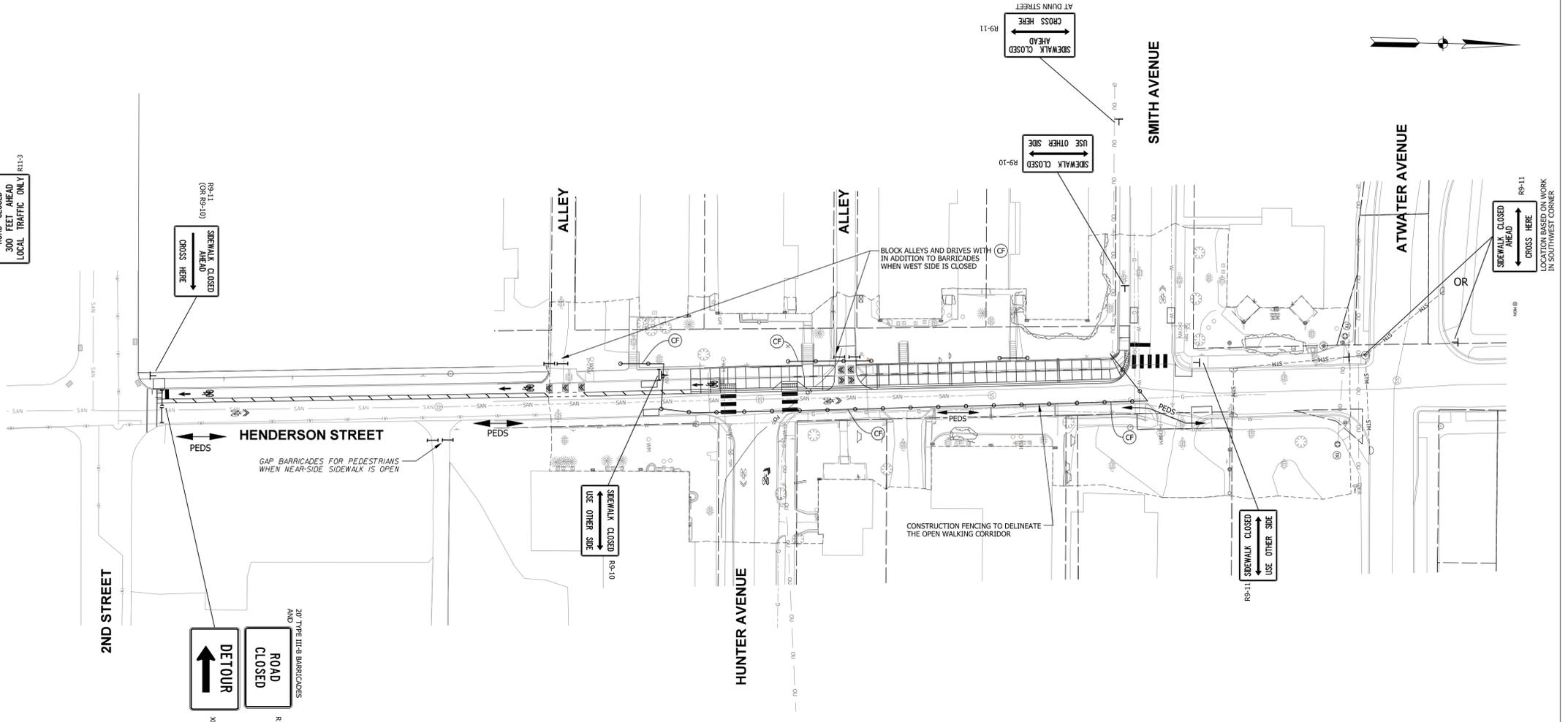
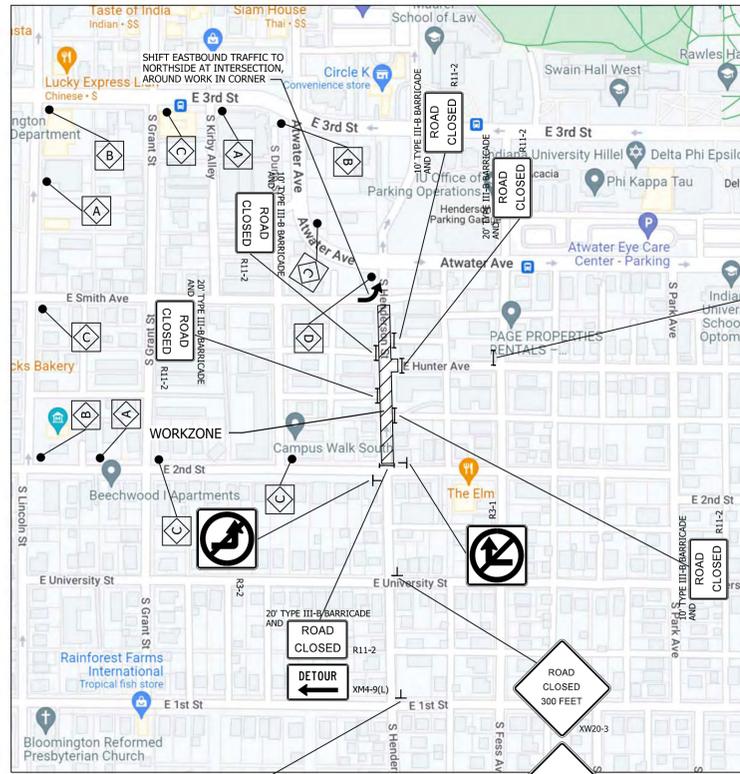


RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-5-2022	DATE
DESIGNED:	BR	DRAWN:	RBA	
CHECKED:	MT	CHECKED:	BR	

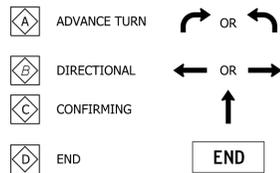
CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING

HENDERSON / HUNTER
STREET DETAIL

HORIZONTAL SCALE	1"=5'-0"	ERCES PROJECT NUMBER	240
VERTICAL SCALE			
		SHEET NUMBER	7



DETOUR ROUTE MARKER CODES:



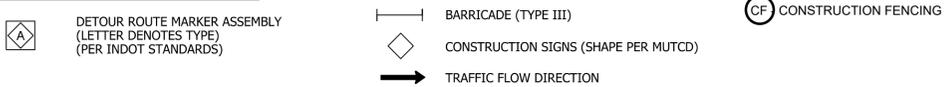
GENERAL REQUIREMENTS:

1. DUE TO SPACE LIMITATIONS, IT IS ASSUMED THAT THE WORK WILL BE COMPLETED UNDER A VEHICULAR ROAD CLOSURE BETWEEN 2ND STREET AND SMITH AVENUE.
2. IF WORK IS TO BE CONDUCTED WITH THE CORRIDOR OPEN TO TRAFFIC, "ROAD CONSTRUCTION AHEAD" (XW20-1) SIGNS SHALL BE POSTED 1 BLOCK FROM THE WORK LIMITS ON HENDERSON, HUNTER AND SMITH, AND AN "END CONSTRUCTION" (XG20-2) POSTED ON HENDERSON NEAR ATWATER AVENUE.
3. PEDESTRIANS ARE TO BE ACCOMMODATED ON ONE SIDE OF HENDERSON AT ALL TIMES BY COMPLETING THE EAST SIDE RAMP MODIFICATIONS BEFORE CLOSING THE WEST SIDE SIDEWALK.
4. FLAGGER OPERATIONS AND TEMPORARY SIGNAGE IN ACCORDANCE WITH INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ARE REQUIRED FOR ALL LANE RESTRICTIONS, IF USED.
5. ALL SIGNS TO BE MOUNTED ON STANDARDS.
6. ALL SIGNS, BARRICADES AND DRUMS TO BE MOUNTED WITH A TYPE C (STEADY BURN) WARNING LIGHT AND MAINTAINED DUSK TO DAWN.

CONSTRUCTION SIGN AND BARRICADE SUMMARY

ITEM	CODE	SIZE	QUANTITY
MAINTAINING TRAFFIC BARRICADE III-B	NA	N/A	1 LSUM 100 LFT
DETOUR ROUTE MARKER ASSEMBLY	See Legend for Types A, B, C, D	N/A	3A, 3B, 5C, 1D
ROAD CLOSURE SIGN ASSEMBLIES:			
ROAD CLOSED	R11-2	48 x 30	6
ROAD CLOSED XXX FEET AHEAD LOCAL TRAFFIC ONLY	R11-3	48 x 30	1
CONSTRUCTION SIGNS, A (= OR > 9 SFT)			
ROAD CLOSED AHEAD	XW20-3	36 x 36	1
ROAD CLOSED XXX FEET	XW20-3	36 x 36	1
DETOUR AHEAD	XW20-2	36 x 36	1
UNDISTRIBUTED / ENGR DIRECTED	TBD	TBD	1
CONSTRUCTION SIGNS, B (< 9 sft)			
DETOUR (L)	XM4-10L	48 x 18	1
NO LEFT TURN	R3-2	24 x 24	1
NO RIGHT TURN	R3-1	24 x 24	1
SIDEWALK CLOSED - USE OTHER SIDE	R9-10	24 x 12	3
SIDEWALK CLOSED AHEAD - CROSS HERE	R9-11	24 x 18	3
UNDISTRIBUTED / ENGR DIRECTED	TBD	TBD	2

MAINTENANCE OF TRAFFIC LEGEND



RECOMMENDED FOR APPROVAL	<i>Bridgway</i>	DESIGN ENGINEER	10-5-2022
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CITY OF BLOOMINGTON
DEPARTMENT OF ENGINEERING
MAINTENANCE OF TRAFFIC
HENDERSON STREET

HORIZONTAL SCALE	ERCES PROJECT NUMBER
NOT TO SCALE	240
VERTICAL SCALE	
	SHEET NUMBER
	8