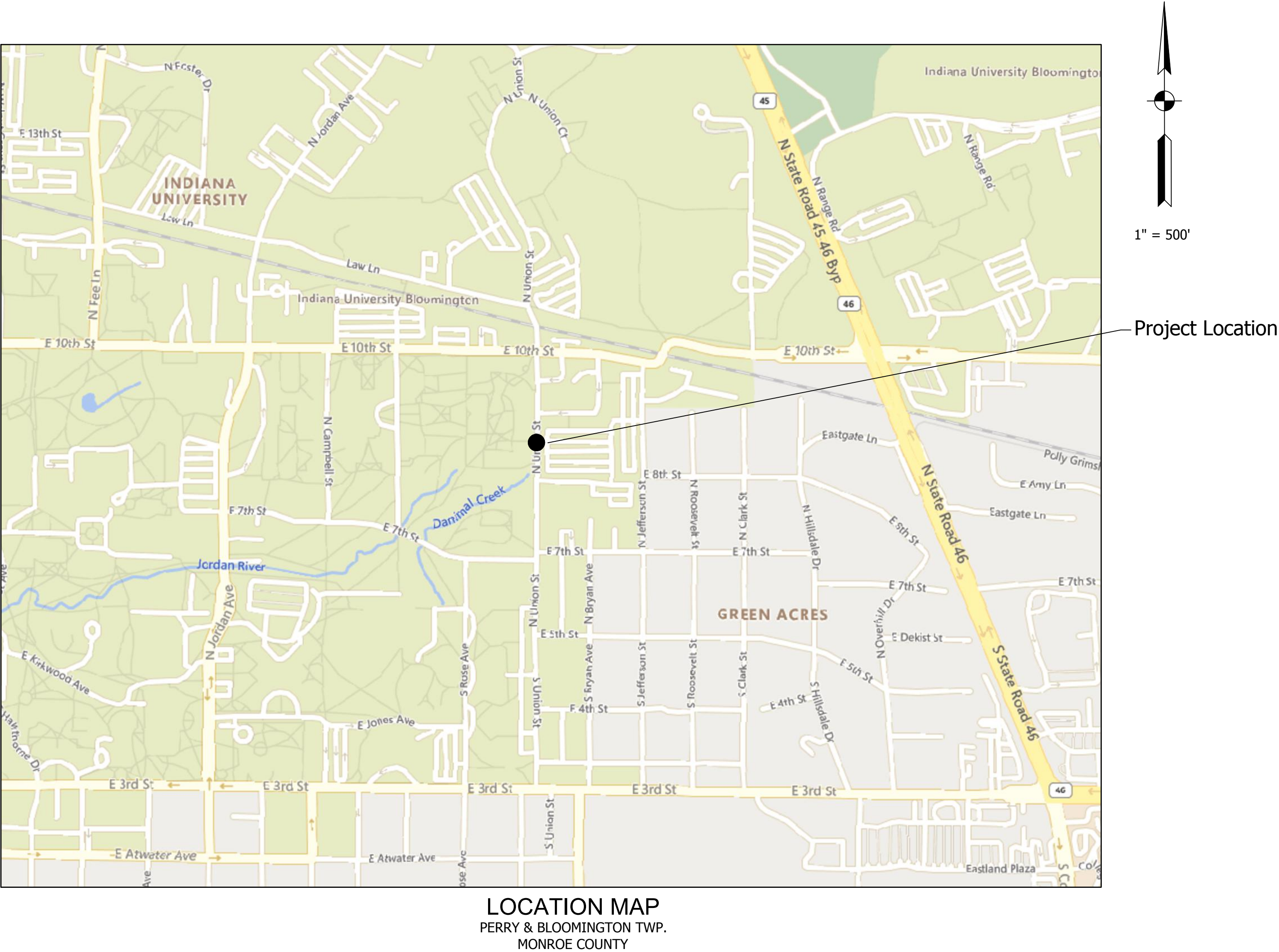


CITY OF BLOOMINGTON

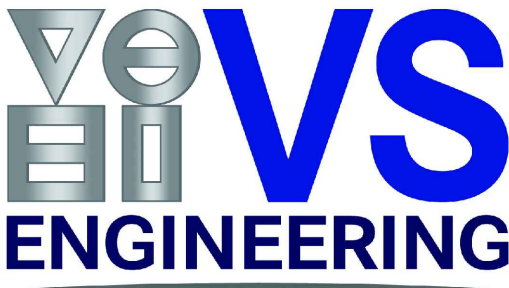
UNION STREET RAISED CROSSWALK

RAISED PEDESTRIAN CROSSWALK LOCATED IN SECTION 34 OF TOWNSHIP 9 NORTH
RANGE 1 WEST, 2ND PRINCIPAL MERIDIAN BLOOMINGTON TOWNSHIP



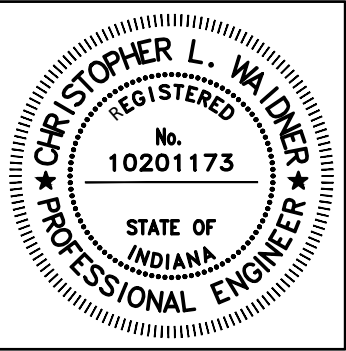
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS

DIRECTORY.....F:\2023\2305364 Bloomington Xwalks\30 SheetDwg\01 Title Index
FILE.....5364 Title Union Street.dwg
DIMSCALE:1 LTSCALE:500
PLOTTED BY: Alex Mroczka
DATE: Aug 20, 2025 - 9:28am



4275 North High School Road
Indianapolis, IN 46254
P: 317.293.3542
F: 317.293.4737
vsei@vsengineering.com
www.vsengineering.com

PLANS PREPARED BY:	VS ENGINEERING, INC.	FAX: (317) 293-4737 TEL: (317) 293-3542
CERTIFIED BY:	 Christopher L. Waidner, P.E.	PHONE NUMBER 8/20/2025 DATE
APPROVED FOR LETTING:	INDIANA REG. NO. 10201173 CITY OF BLOOMINGTON DATE	



CONTRACT		DESIGNATION	
N/A		N/A	
PROJECT		SHEETS	
VS 2305364		1 of 6	

DIRECTORY.....F:\2023\2305364 Bloomington Xwalks\30 SheetDwg\08 MOTI
FILE.....5364 Union Street MOT.dwg
DIMS...1 LTSCALE...1
PLOT...BY: AlexMrozka
DATE.....Aug 20, 2025 - 9:59am



DETOUR

SOUTH

UNION ST

↑

XM4-8
24" X 12"

M3-3
24" X 12"

D3-1
-" X -"

M6-3
21" X 15"

1

DETOUR

NORTH

UNION ST

↑

XM4-8
24" X 12"

M3-1
24" X 12"

D3-1
-" X -"

M6-3
21" X 15"

5



9

MAINTENANCE OF TRAFFIC NOTES

- Advanced warning signs shall be spaced at 100' unless otherwise specified.
- Contractor to maintain access to drives at all times during construction.

DETOUR

SOUTH

UNION ST

→

XM4-8
24" X 12"

M3-3
24" X 12"

D3-1
-" X -"

M6-1 (R)
21" X 15"

2

DETOUR

NORTH

UNION ST

→

XM4-8
24" X 12"

M3-1
24" X 12"

D3-1
-" X -"

M6-1 (R)
21" X 15"

6



10

DETOUR

SOUTH

UNION ST

←

XM4-8
24" X 12"

M3-3
24" X 12"

D3-1
-" X -"

M6-1 (L)
21" X 15"

3

DETOUR

NORTH

UNION ST

←

XM4-8
24" X 12"

M3-1
24" X 12"

D3-1
-" X -"

M6-1 (L)
21" X 15"

7



11

END
DETOUR

SOUTH

UNION ST

↑

XM4-8a
18" X 24"

M3-3
24" X 12"

D3-1
-" X -"

M6-3
21" X 15"

4

END
DETOUR

NORTH

UNION ST

↑

XM4-8a
18" X 24"

M3-1
24" X 12"

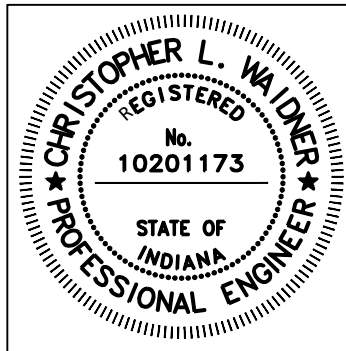
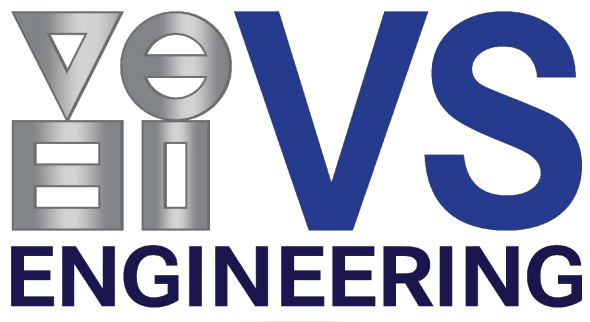
D3-1
-" X -"

M6-3
21" X 15"

8

LEGEND

- DETOUR ROUTE
- CONSTRUCTION SIGN W/ TYPE A LIGHT
- CONSTRUCTION SIGN
- CONSTRUCTION SIGN W/ DOUBLE TYPE A LIGHT
- BARRICADE, AS NOTED
- DIRECTION OF DETOUR
- CONSTRUCTION AREA



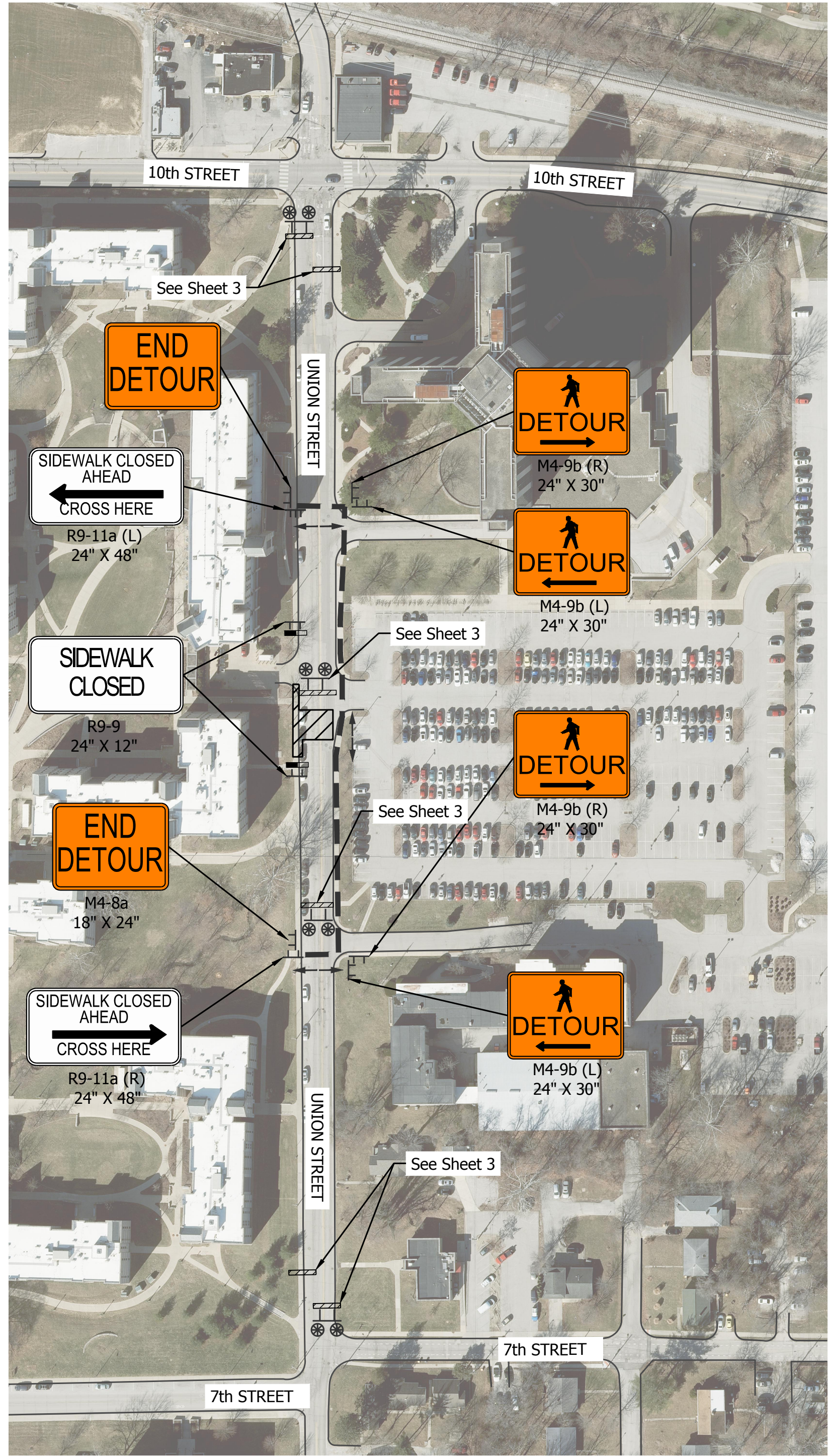
RECOMMENDED
FOR APPROVAL *Christopher L. Wilder* 8/20/2025
DESIGN ENGINEER DATE

DESIGNED: ABM DRAWN: KC
CHECKED: CLW CHECKED: LT

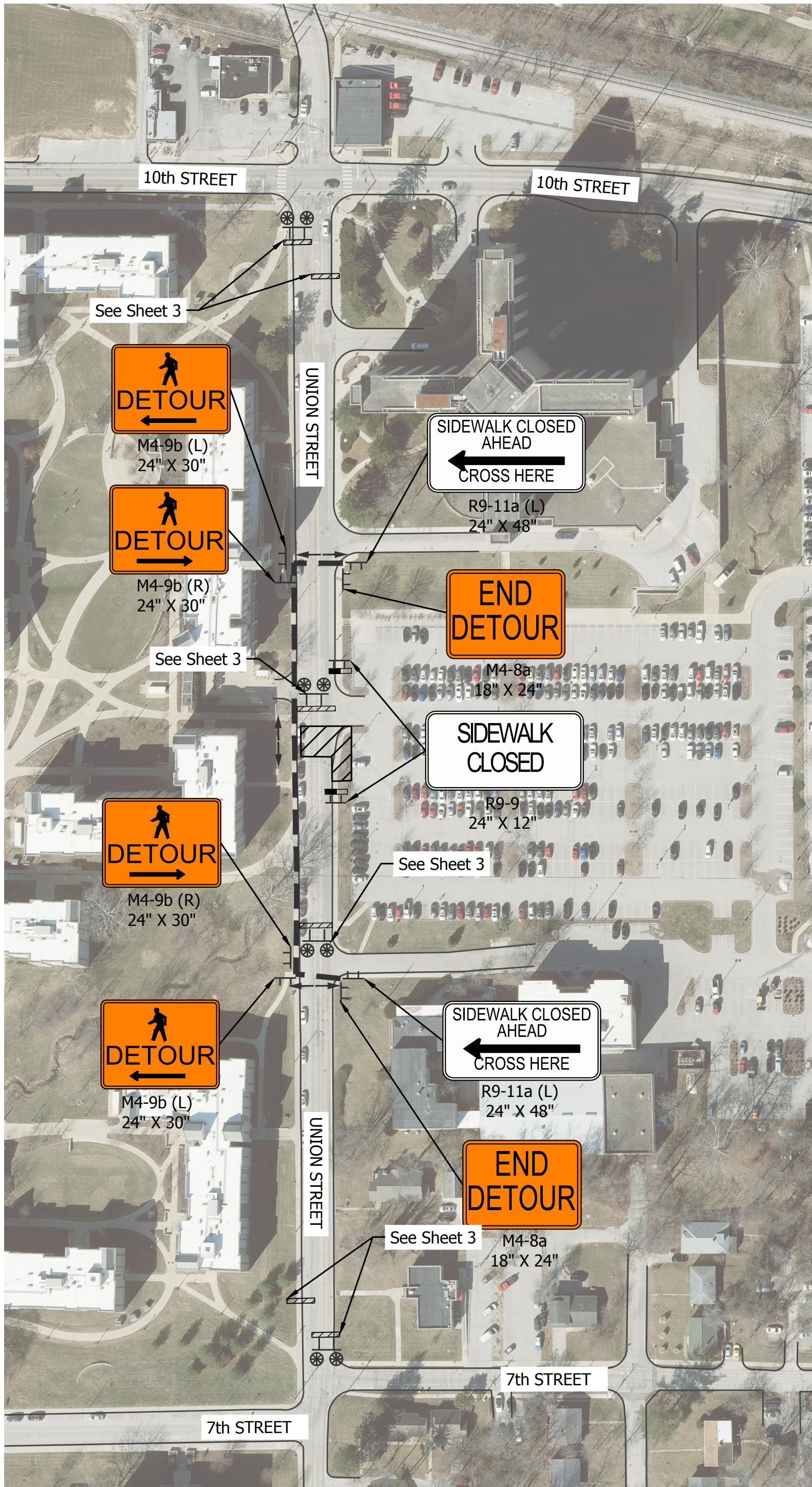
CITY OF BLOOMINGTON

MAINTENANCE OF TRAFFIC
DETOUR ROUTE

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK N/A	SHEETS 3 of 6
CONTRACT N/A	PROJECT VS 2305364



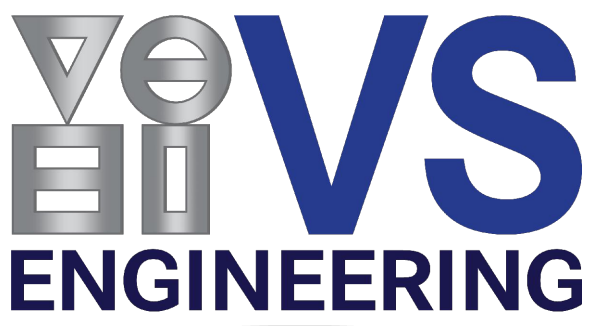
PEDESTRIAN MAINTENANCE OF TRAFFIC
PHASE I - DETOUR ROUTE



PEDESTRIAN MAINTENANCE OF TRAFFIC
PHASE II - DETOUR ROUTE

LEGEND

- PEDESTRIAN DETOUR ROUTE
- CONSTRUCTION SIGN
- CONSTRUCTION AREA
- PEDESTRIAN DETOUR DIRECTION
- TEMPORARY PEDESTRIAN CHANNELIZER

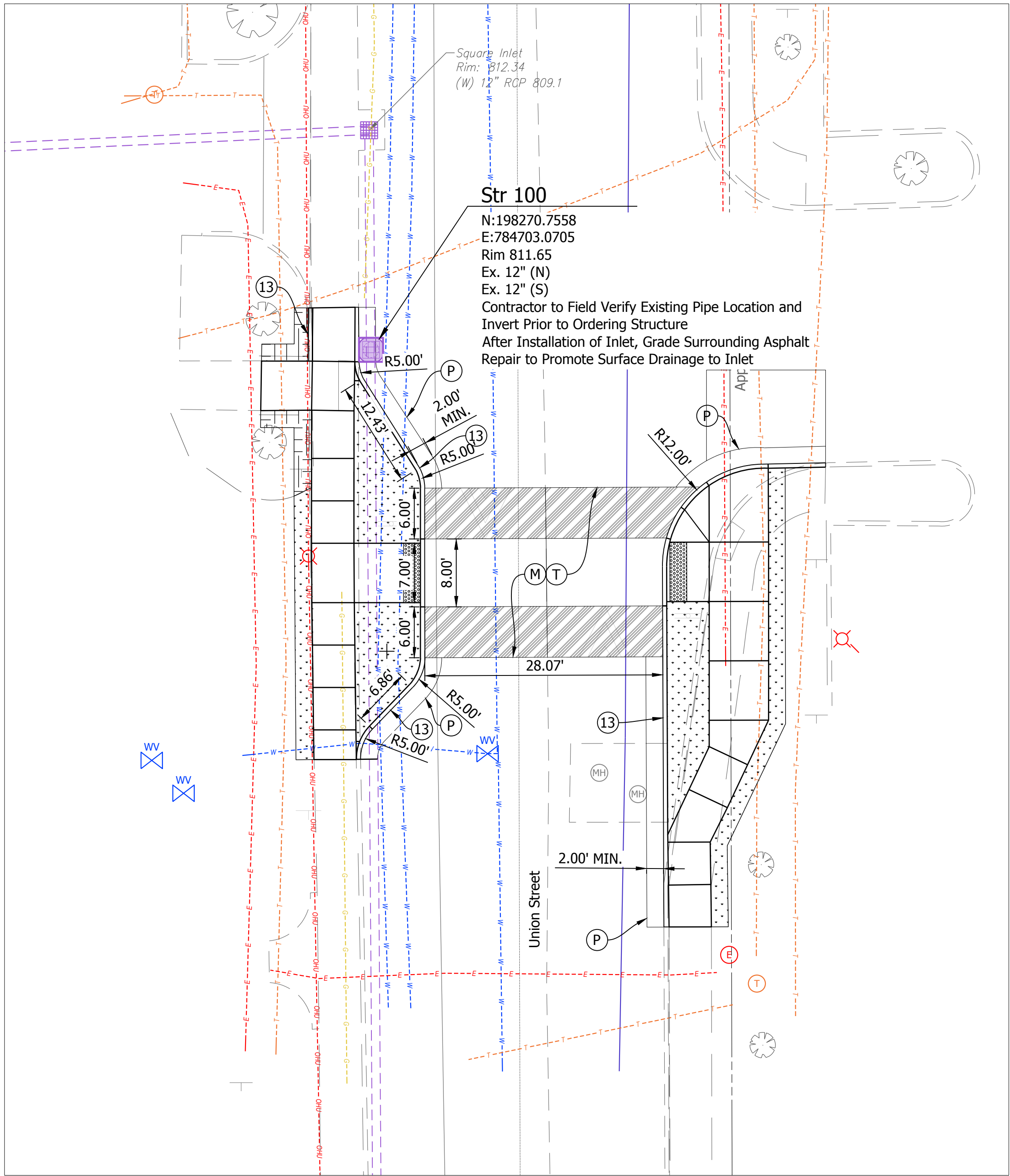


RECOMMENDED FOR APPROVAL		8/20/2025
DESIGN ENGINEER		DATE
DESIGNED: ABM	DRAWN: KC	
CHECKED: CLW	CHECKED: LT	

CITY OF BLOOMINGTON
PEDESTRIAN MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	4 of 6
CONTRACT	PROJECT
N/A	VS 2305364

DIRECTORY:....F:\2023\2305364 Bloomington Xwalks\30 SheetDwg\13 ADA Details\
FILE:.....5364 Curb Ramp Dtls.dwg
DIMSCALE: 1/1 LTSCALE:.....1
PLOTTED BY: Alex Mrozka
DATE:.....Aug 20, 2025 - 10:01am



UNION STREET MID-BLOCK CROSSING

PLAN VIEW
SCALE: 1" = 10'

LEGEND

- ⑬ Curb, Concrete
F Sidewalk, Concrete, 4"
T Raised Crosswalk Consisting of 165#/syd HMA Surface Type B on, Wedge and Level Type B
M Milling, Asphalt, 1.5"
P Asphalt Surface Patching See City of Bloomington Standard Drawing SC-2
D HMA For Approaches 165#/syd HMA Surface Type B on, Wedge and Level Type B



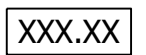
Concrete Curb Ramp



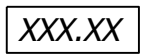
Turning Space, 4' X 4'



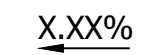
Clear Space, 4' X 4'



Proposed Elevation



Existing Elevation



Slope and Direction



Detectable Warning Surface



Sodding



Raised Crosswalk Elevation Transition



Mulch



Top of Curb



Bottom of Curb

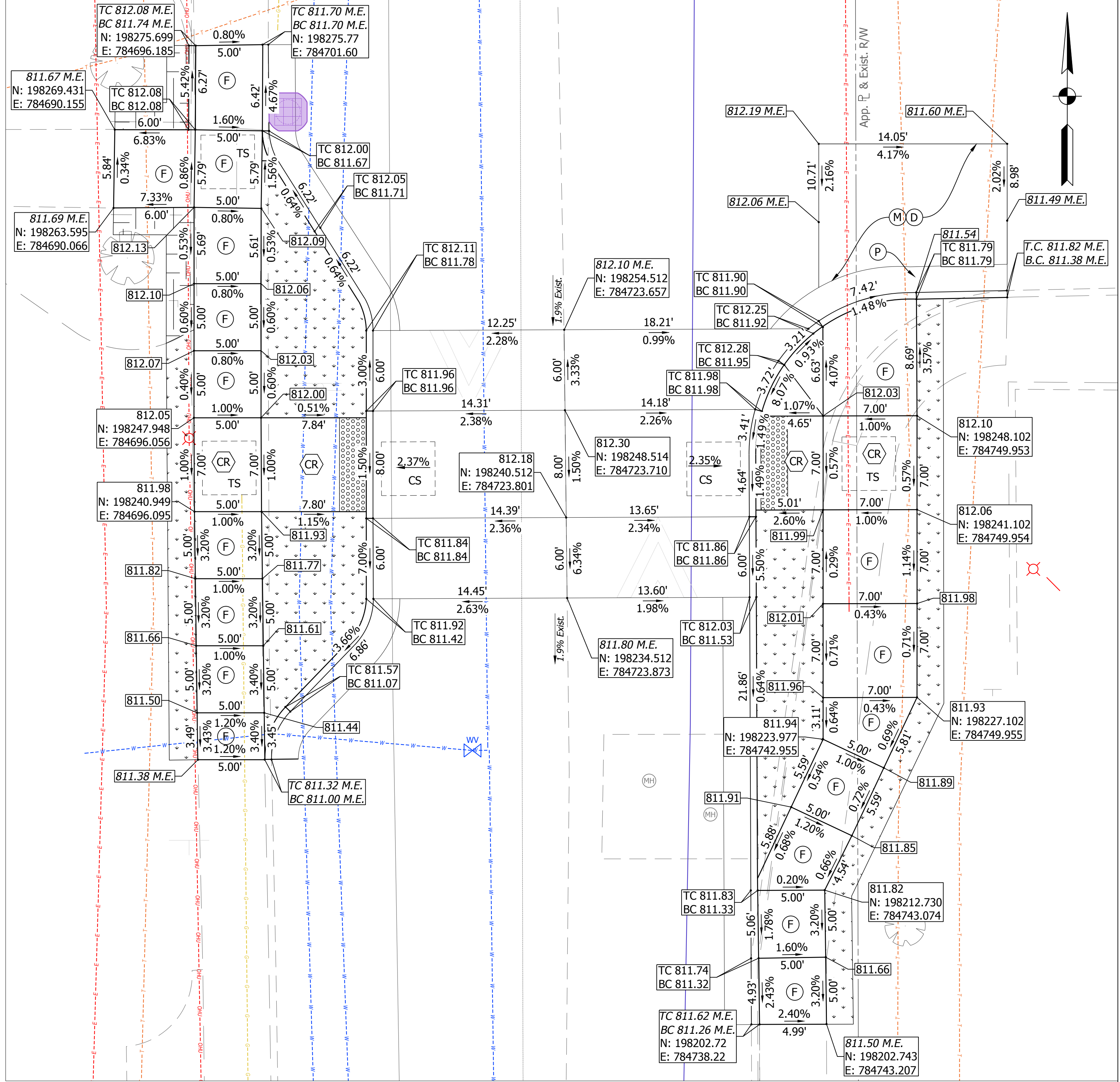


Match Existing

Notes:

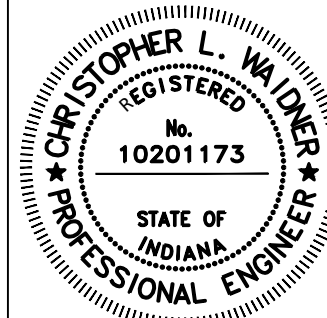
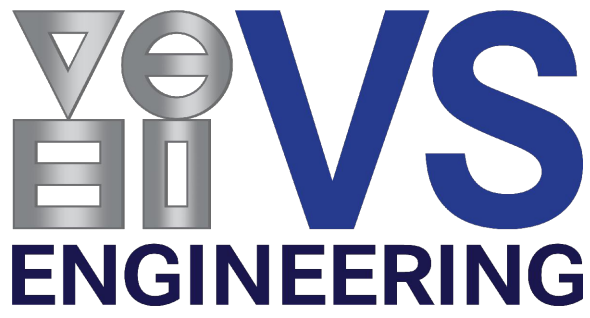
1. All areas within the construction limits to be sodded unless otherwise noted.

UNION ST	AREA (SYS)
DETECTABLE WARNING SURFACE	3.2
CURB RAMP	19.3
SIDEWALK	63.4



UNION STREET MID-BLOCK CROSSING
CURB RAMP AND RAISED CROSSWALK DETAIL

SCALE: 1" = 5'



RECOMMENDED FOR APPROVAL *Christopher L. W. D.* 8/20/2025
DESIGN ENGINEER DATE

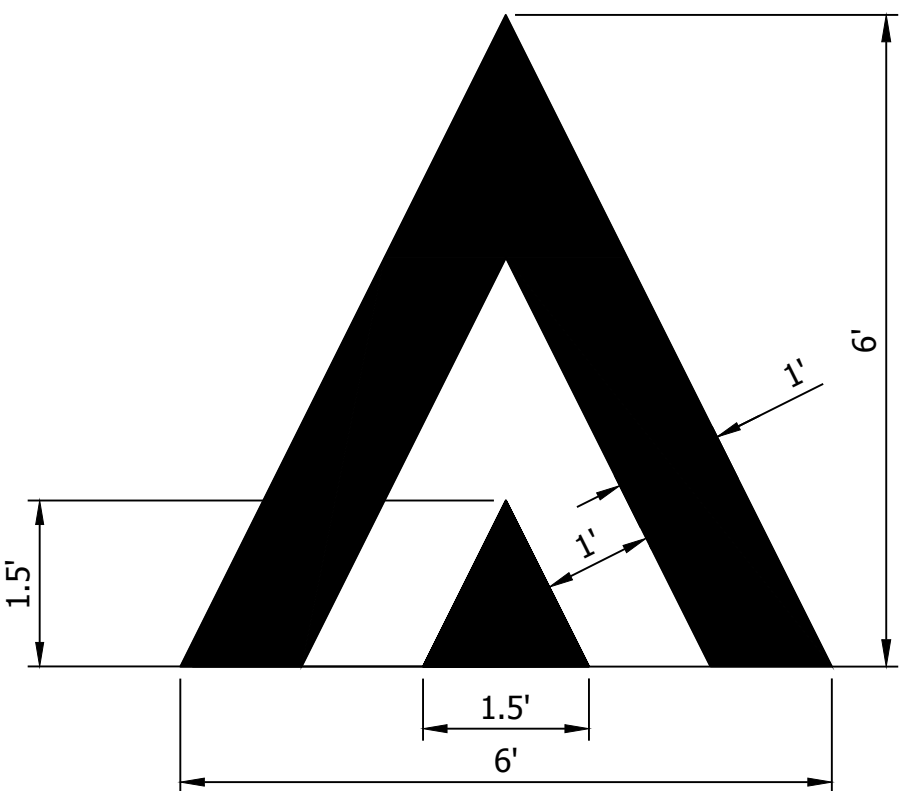
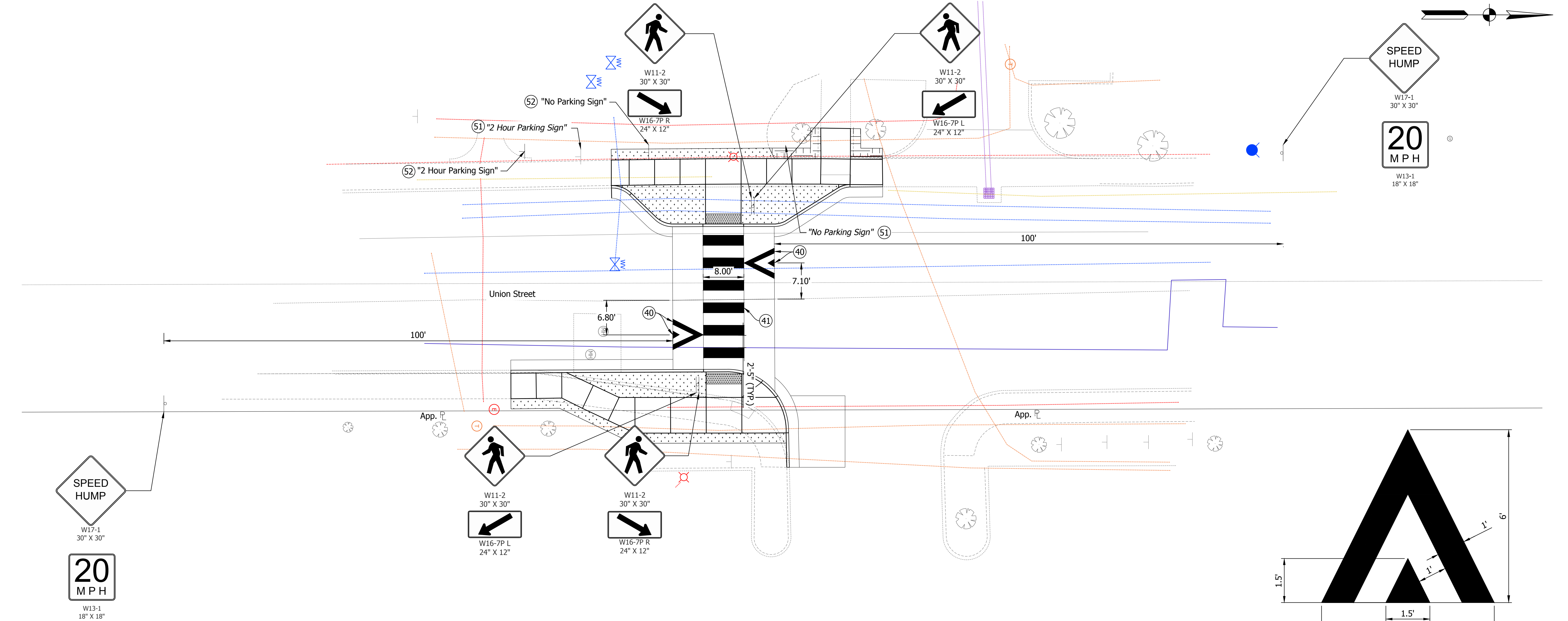
DESIGNED: ABM DRAWN: KC
CHECKED: CLW CHECKED: LT

CITY OF BLOOMINGTON

CURB RAMP DETAILS
UNION STREET MID-BLOCK CROSSING

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	5 of 6
CONTRACT	PROJECT
N/A	VS 2305364

DIRECTORY: F:\2023\2305364 Bloomington Xwalks 30 SheetDwg\23 PM Plan\
FILE: 5364 PM Plan.dwg
DIMSCALE: 1' LTSCALE: 0.1
PLOT BY: Alex Mrozka
DATE: Aug 20, 2025 - 9:26am



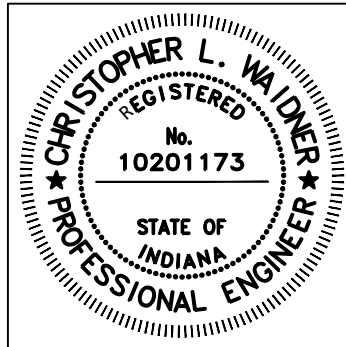
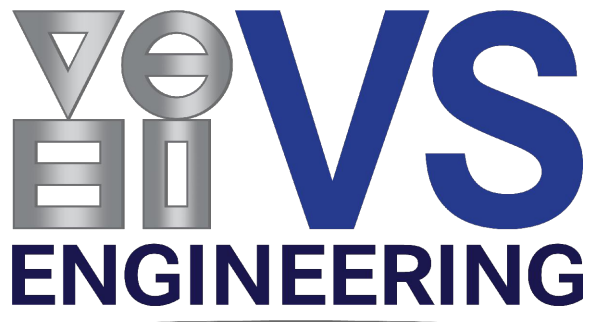
Speed Hump Marking

LEGEND

- (40) Line, Thermoplastic, Speed Hump Marking
- (41) Transverse Marking, Thermoplastic, Crosswalk Line, White, 24"
- (51) Remove Existing Sheet Sign & Supports
- (52) Existing Sheet Sign on New Supports
- Sign
- Double-Sided Sign

SHEET SIGN & POST SUMMARY												
SIGN									POST			
SIGN LOCATION	SIGN CODE	DESCRIPTION	SIGN SIZE (IN x IN)	REMOVE	RELOCATE	GROUND - MOUNTED SIGN AREA (ft²)		MOUNTED ON OVHD STR.	SQUARE	SQUARE		
						0.080"	0.080" 2-SIDED		0.100"	0.080"	TYPE 1	WOOD, 4" X 6"
											UNREINFORCED ANCHOR	EMBEDMENT, 42"
									POST LENGTH (FT.)			
UNION	W17-1	SPEED HUMP	30x30			6.25				12.00		
UNION	W13-1	ADVISORY SPEED PLAQUE 20 MPH	18X18			2.25						
UNION	N/A	2 HOUR PARKING	N/A		1						9.50	
UNION	N/A	NO PARKING	N/A		1						12.00	
UNION	W11-2	PEDESTRIAN CROSSING	30X30			6.25				11.50		
UNION	W16-7P	DIAGONAL ARROW	24X12			2.25						
UNION	W11-2	PEDESTRIAN CROSSING	30X30			6.25						
UNION	W16-7P	DIAGONAL ARROW	24X12			2.25						
UNION	W11-2	PEDESTRIAN CROSSING	30X30			6.25				11.50		
UNION	W16-7P	DIAGONAL ARROW	24X12			2.25						
UNION	W11-2	PEDESTRIAN CROSSING	30X30			6.25						
UNION	W16-7P	DIAGONAL ARROW	24X12			2.25						
UNION	W11-2	PEDESTRIAN CROSSING	30X30			6.25				11.50		
UNION	W16-7P	DIAGONAL ARROW	24X12			2.25						
UNION	W17-1	SPEED HUMP	30X30			6.25						
UNION	W13-1	ADVISORY SPEED PLAQUE 20 MPH	18X18			2.25					12.00	
TOTAL					2	51.00				56.50	12.00	

PAVEMENT MARKINGS SUMMARY OF QUANTITIES		
LOCATION	TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE	TRANSVERSE MARKING, THERMOPLASTIC, SPEED HUMP MARKING
	SOLID WHITE	SOLID WHITE
	24 in	12 in
	ft	EACH
Union St Mid-Block Crossing	48	2
Total	48	2



RECOMMENDED FOR APPROVAL		8/20/2025
DESIGN ENGINEER		DATE
DESIGNED: <u>ABM</u>	DRAWN: <u>KC</u>	
CHECKED: <u>CLW</u>	CHECKED: <u>LT</u>	

CITY OF BLOOMINGTON
PAVEMENT MARKING AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
N/A	6 of 6
CONTRACT	PROJECT
N/A	VS 2305364