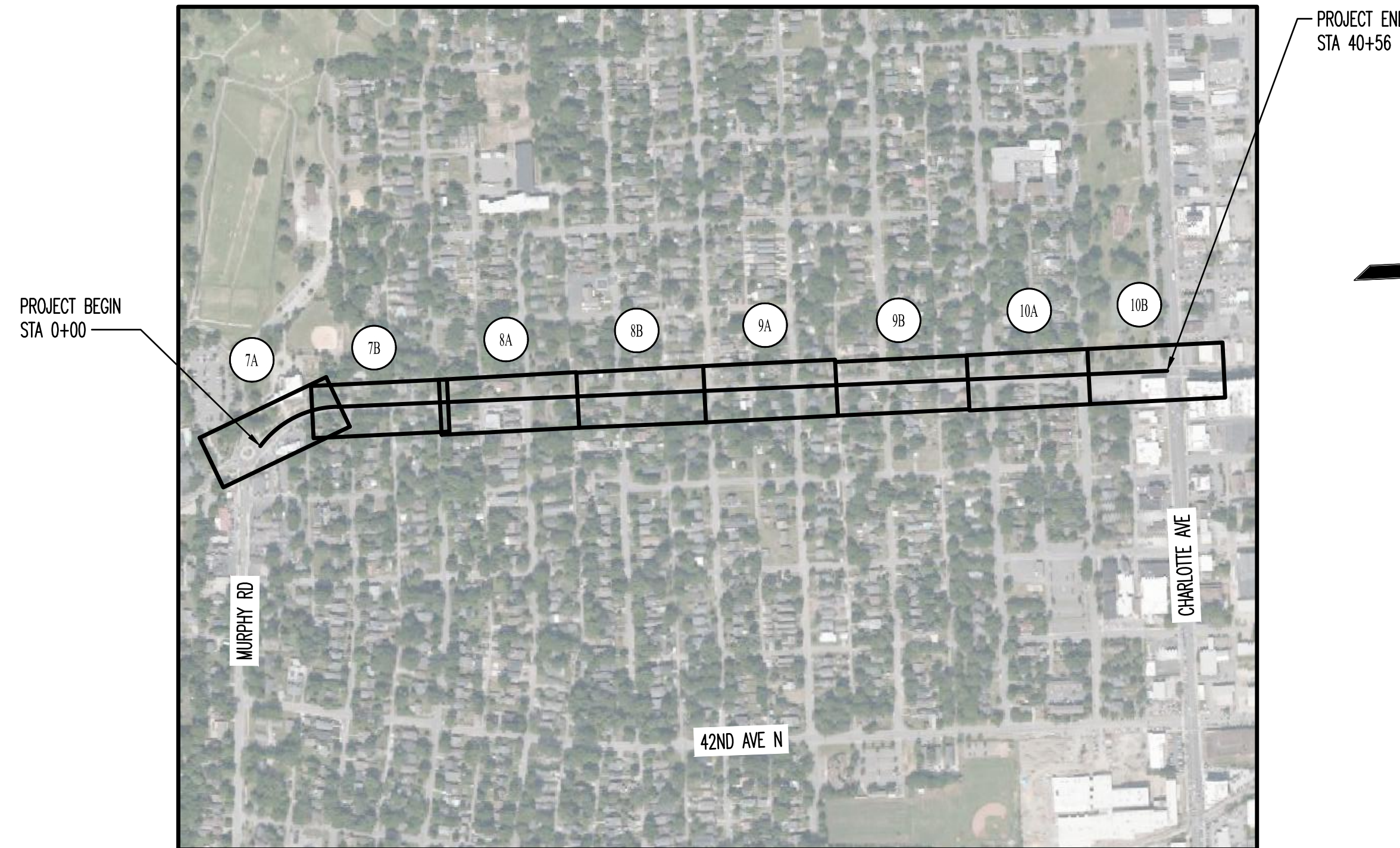


METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY, TENNESSEE

46TH AVENUE NORTH BIKEWAY IMPROVEMENTS FROM MURPHY ROAD TO CHARLOTTE AVENUE SEPTEMBER 2024



LOCATION MAP:
SCALE: 1"=500'

1. COVER SHEET
2. TYPICAL DETAILS
3. TYPICAL DETAILS
4. TYPICAL DETAILS
5. TYPICAL DETAILS
6. TYPICAL DETAILS
7. PROPOSED LAYOUT
8. PROPOSED LAYOUT
9. PROPOSED LAYOUT
10. PROPOSED LAYOUT

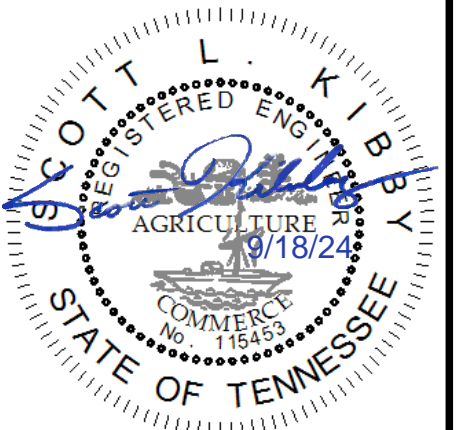
DISTRICT NUMBER: 24
COUNCIL MEMBER: BRENDA GADD



LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

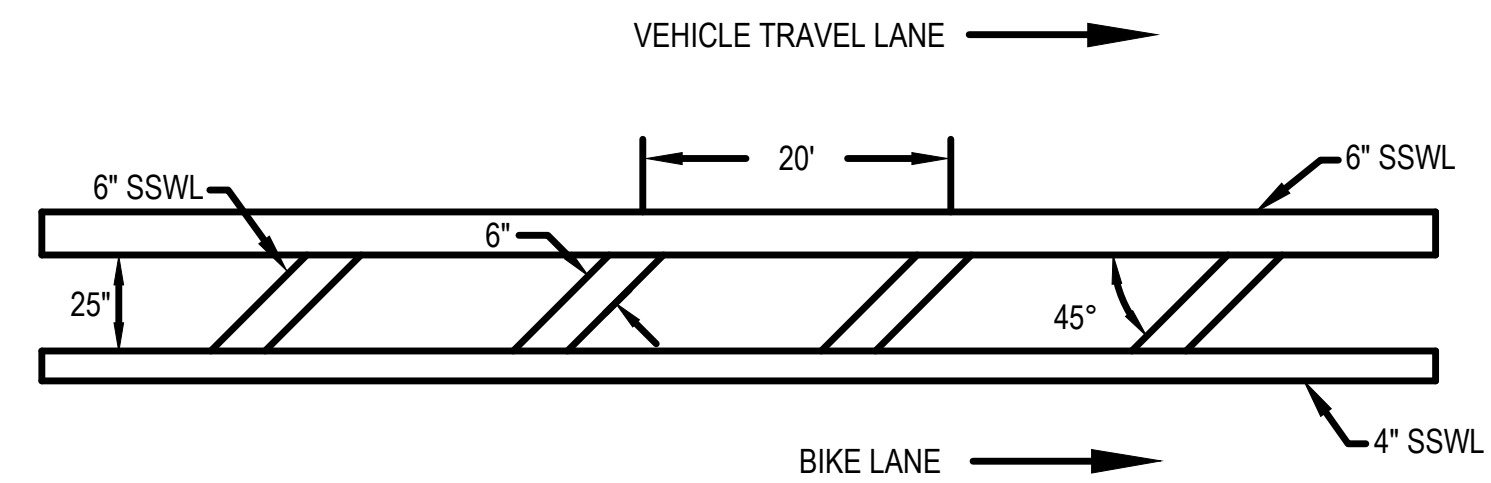
METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
FROM MURPHY ROAD TO CHARLOTTE AVENUE



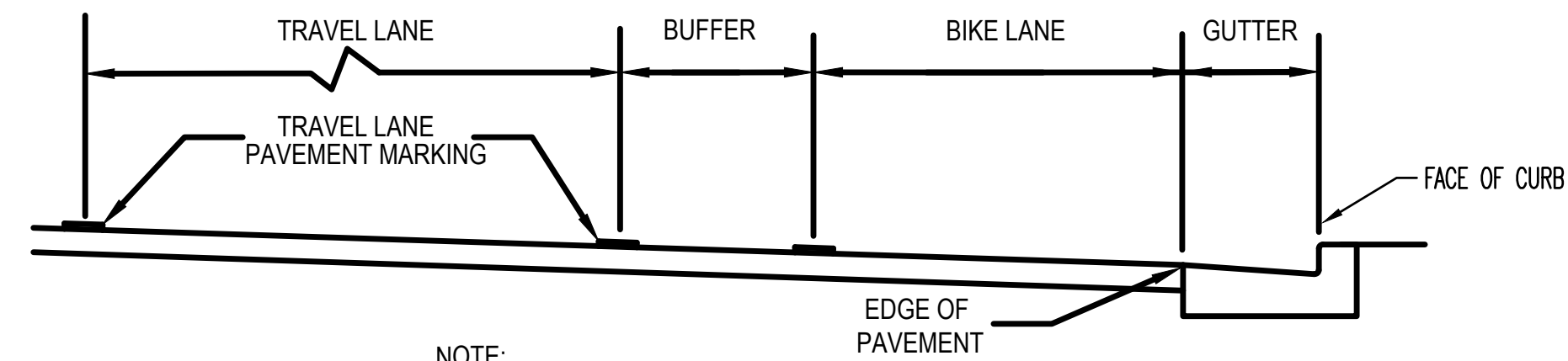
PROJECT NUMBER: NDT418	SCALE: AS SHOWN
DATE: 9-2024	DESIGNED BY: ZDB
DRAWN BY: JWC	

SHEET TITLE:

COVER SHEET

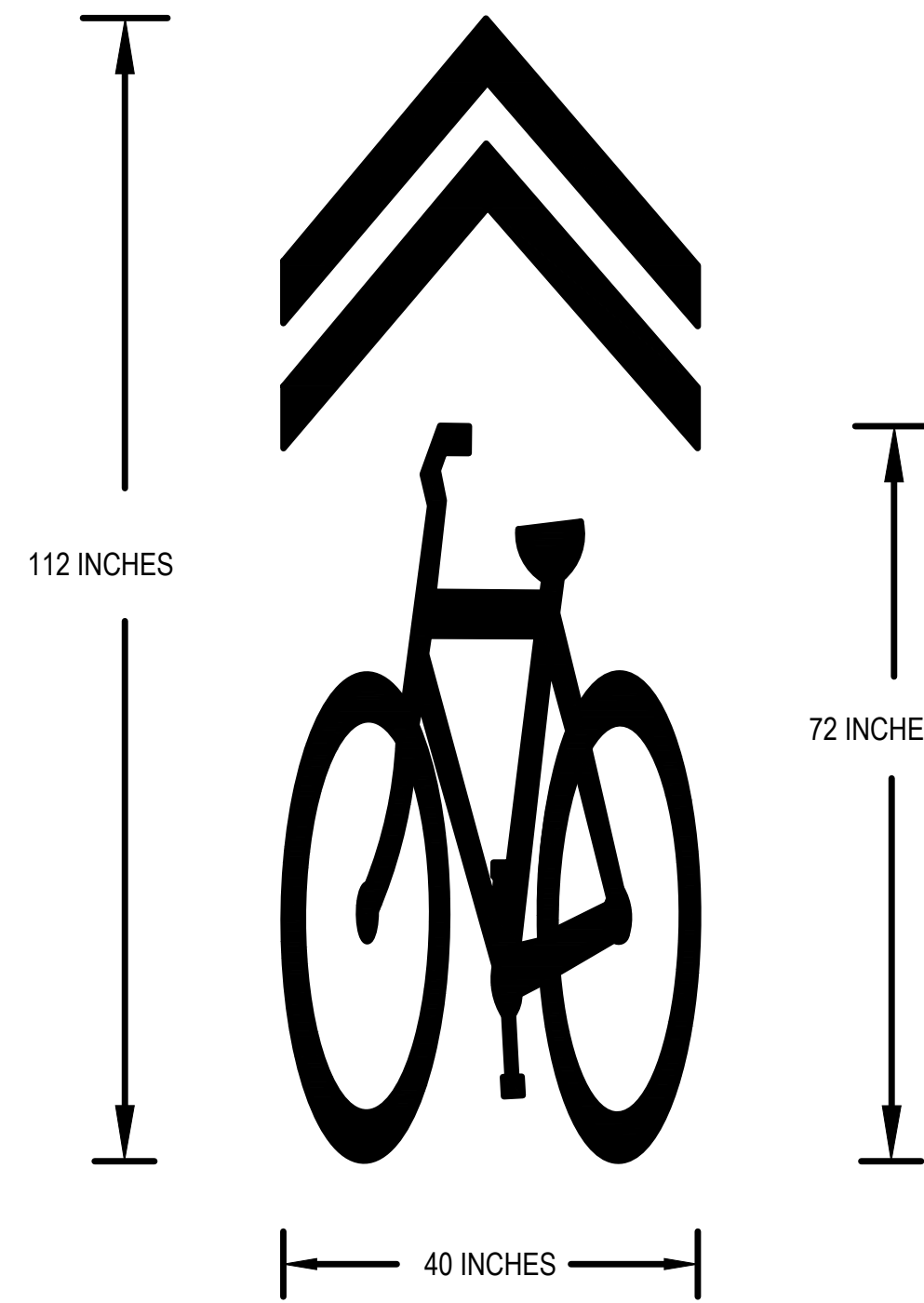


BIKE LANE BUFFER PAVEMENT MARKINGS
NOT TO SCALE



NOTE:
LATERAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY MEASURED TO AN ADJACENT EDGE OF PAVEMENT OR TO THE CENTERLINE OF AN ADJACENT PAVEMENT MARKING AS SHOWN IN THE PLANS.

TYPICAL LATERAL STRIPING LAYOUT
NOT TO SCALE



SHARROW SYMBOL

SHARROW MARKING DETAIL
NOT TO SCALE

NOTES:

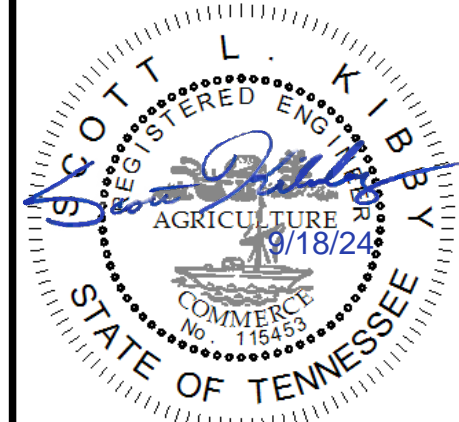
- REFER TO MUTCD 2023 EDITION PART 9 FIGURE 9E-1 WORD, SYMBOL, AND ARROW PAVEMENT MARKINGS FOR BICYCLE LANES. REDUCED SIZE MARKINGS TO BE USED WHERE REQUIRED IN THE FIELD. REFER TO FIGURE 9E-9 FOR SHARED LANE MARKINGS.
- IF USED IN A SHARED LANE WITH ON-STREET PARALLEL PARKING, SHARED LANE MARKINGS SHOULD BE PLACED SO THAT THE CENTERS OF THE MARKINGS ARE AT LEAST 12 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB. (2023 MUTCD, SECTION 9E.09)
- IF USED ON A STREET WITHOUT ON-STREET PARKING THAT HAS AN OUTSIDE TRAVEL LANE THAT IS LESS THAN 14 FEET WIDE, THE CENTERS OF THE SHARED LANE MARKINGS SHOULD BE AT LEAST 4 FEET FROM THE FACE OF THE CURB, OR FROM THE EDGE OF THE PAVEMENT WHERE THERE IS NO CURB. (2023 MUTCD, SECTION 9E.09)



LDA ENGINEERING

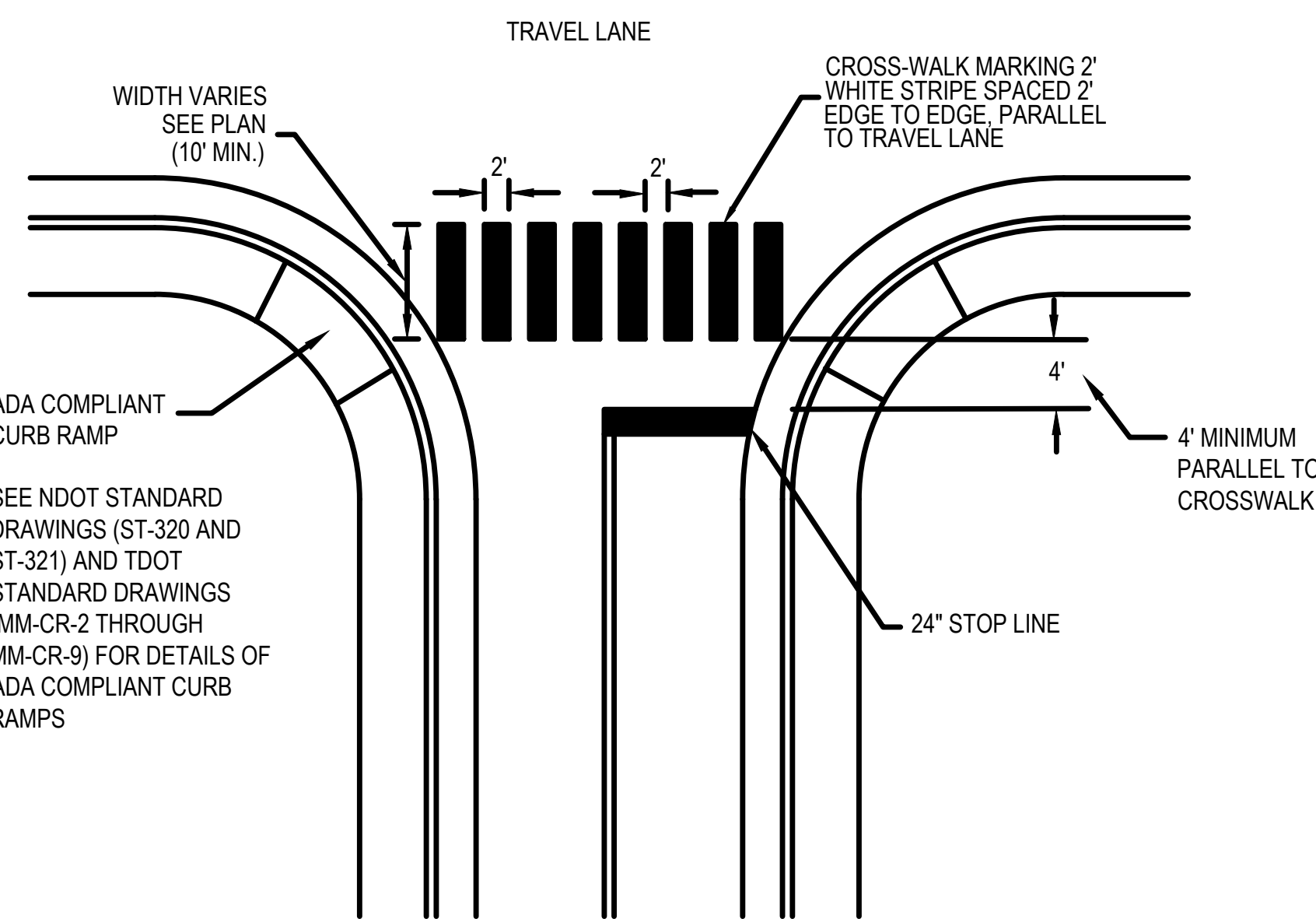
REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
FROM MURPHY ROAD TO CHARLOTTE AVENUE

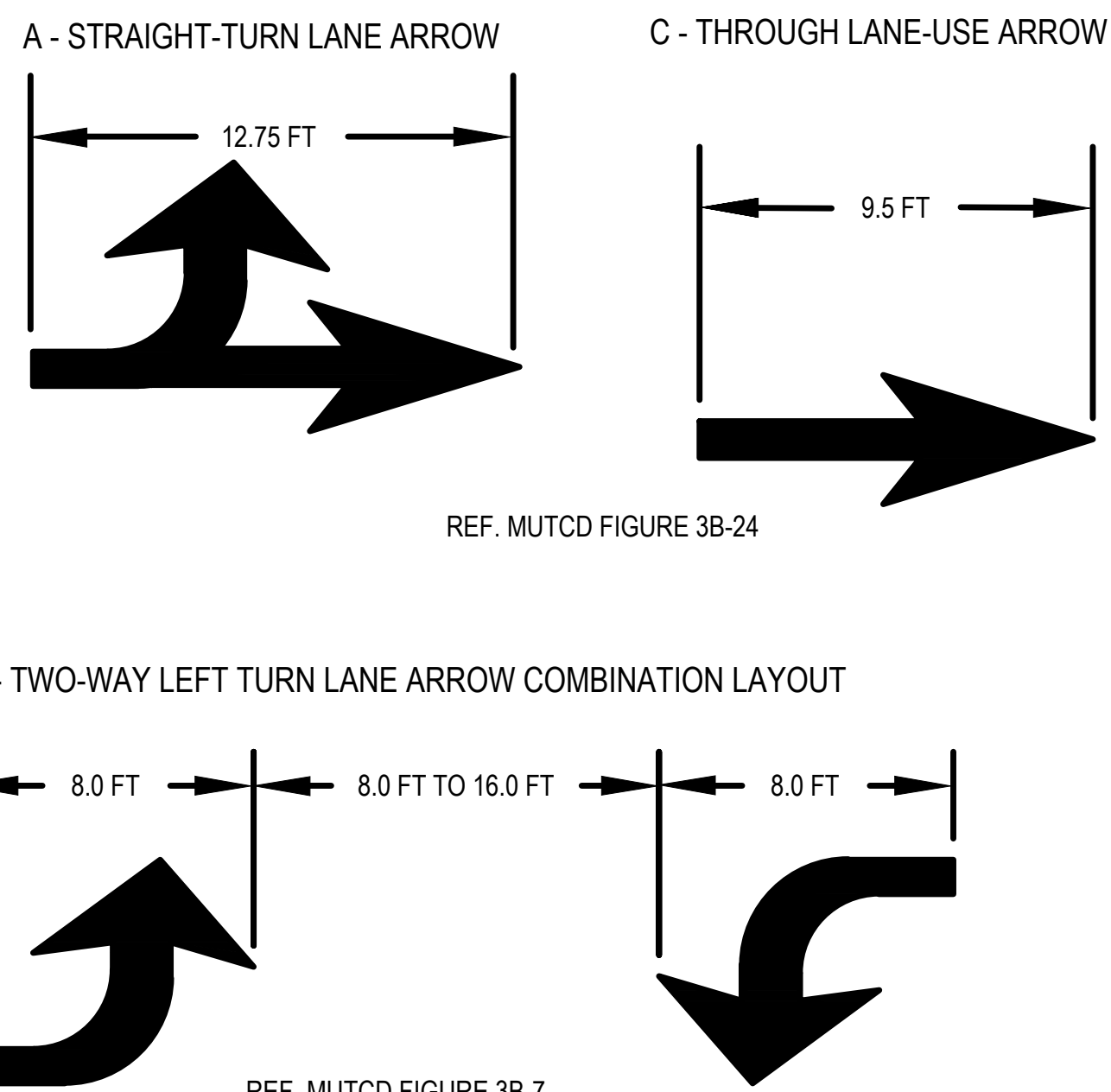


PROJECT NUMBER: NDT418	DATE: 9-2024	SCALE:
DRAWN BY: JWC	DESIGNED BY: ZDB	

SHEET TITLE:
TYPICAL DETAILS



TYPICAL STOP LINE PLACEMENT AND CROSSWALK MARKINGS
NOT TO SCALE



REF. MUTCD FIGURE 3B-24

REF. MUTCD FIGURE 3B-7

NOTE:
TURN ARROWS SHALL BE PLACED IN THE TURN LANES AT THE LOCATIONS SPECIFIED IN THE PLANS.

TURN LANE ARROW DETAIL
NOT TO SCALE

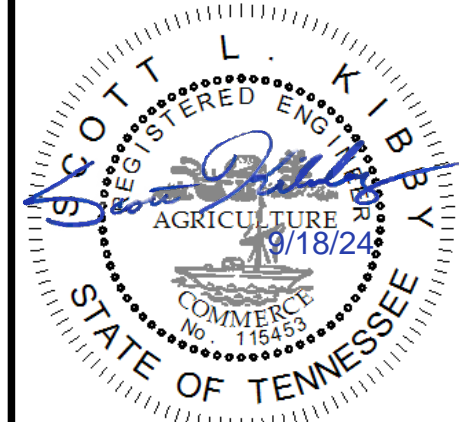
****SPECIAL NOTES:**

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (2023 MUTCD)
- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ROADWAY MARKINGS AND SIGNS.
- BIKEWAY SIGNAGE SHALL BE PLACED PER DIRECTION OF THE FIELD ENGINEER.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL BE PLACED PER DIRECTION OF METRO REPRESENTATIVE.
- SHARROW AND BIKE LANE PAVEMENT MARKING SHALL NOT BE PLACED IN FRONT OF DRIVEWAYS.
- BIKEWAY PROJECTS SHALL COORDINATE WITH METRO TRAFFIC DEPARTMENT.
- THE DESIGN IS BASED ON AERIAL IMAGERY FROM BING MAPS USING AUTODESK CIVIL 3D SOFTWARE ; ALL SPACING AND DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR MUST NOTIFY THE ENGINEER AFTER PLACING TEMPORARY MARKINGS. THE ENGINEER WILL VERIFY DIMENSIONS BEFORE PERMANENT STRIPING IS APPLIED.



REV	DATE	REVISION DESCRIPTION

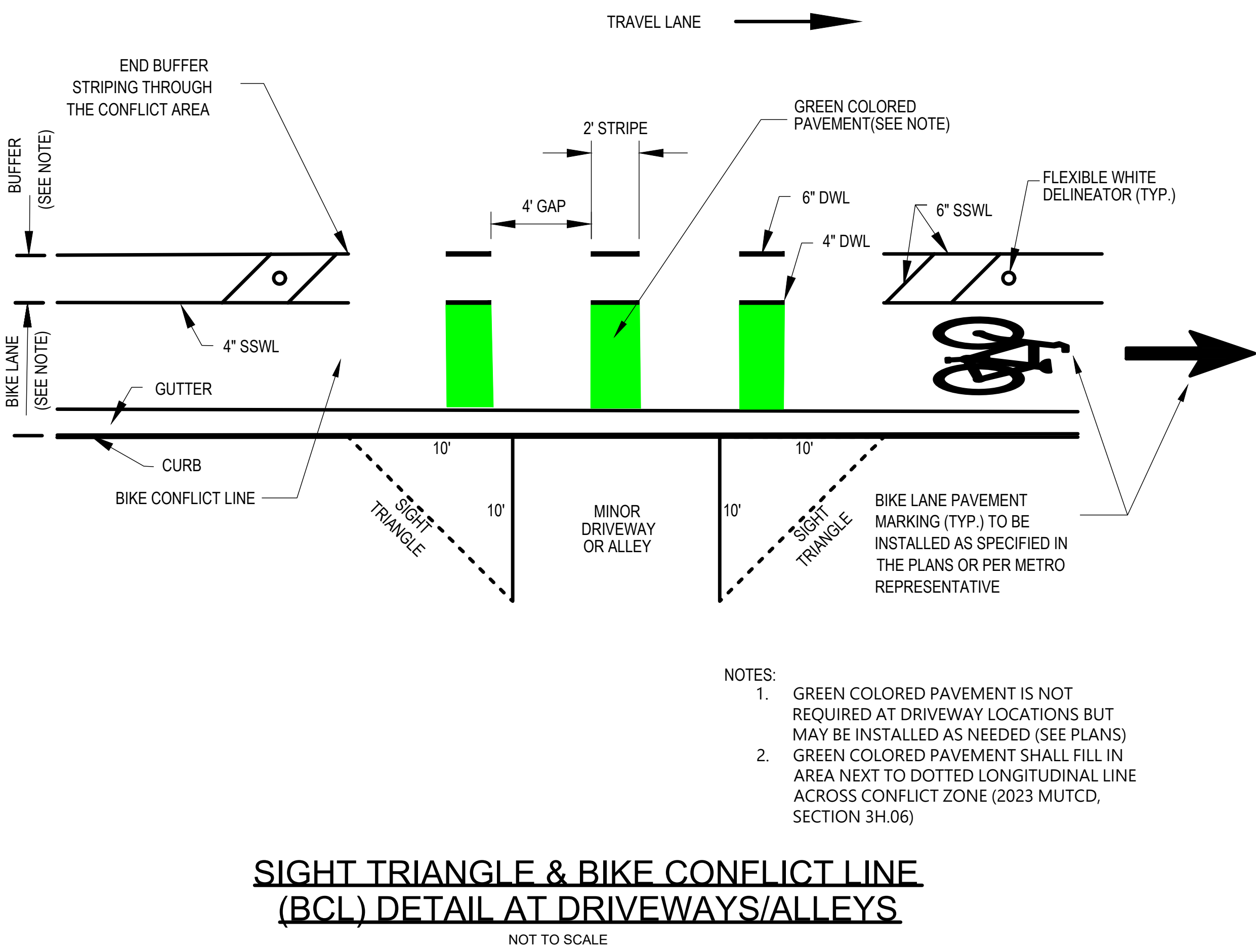
METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
FROM MURPHY ROAD TO CHARLOTTE AVENUE



PROJECT NUMBER: NDT418
DATE: 9-2024 SCALE:
DRAWN BY: JWC DESIGNED BY: ZDB

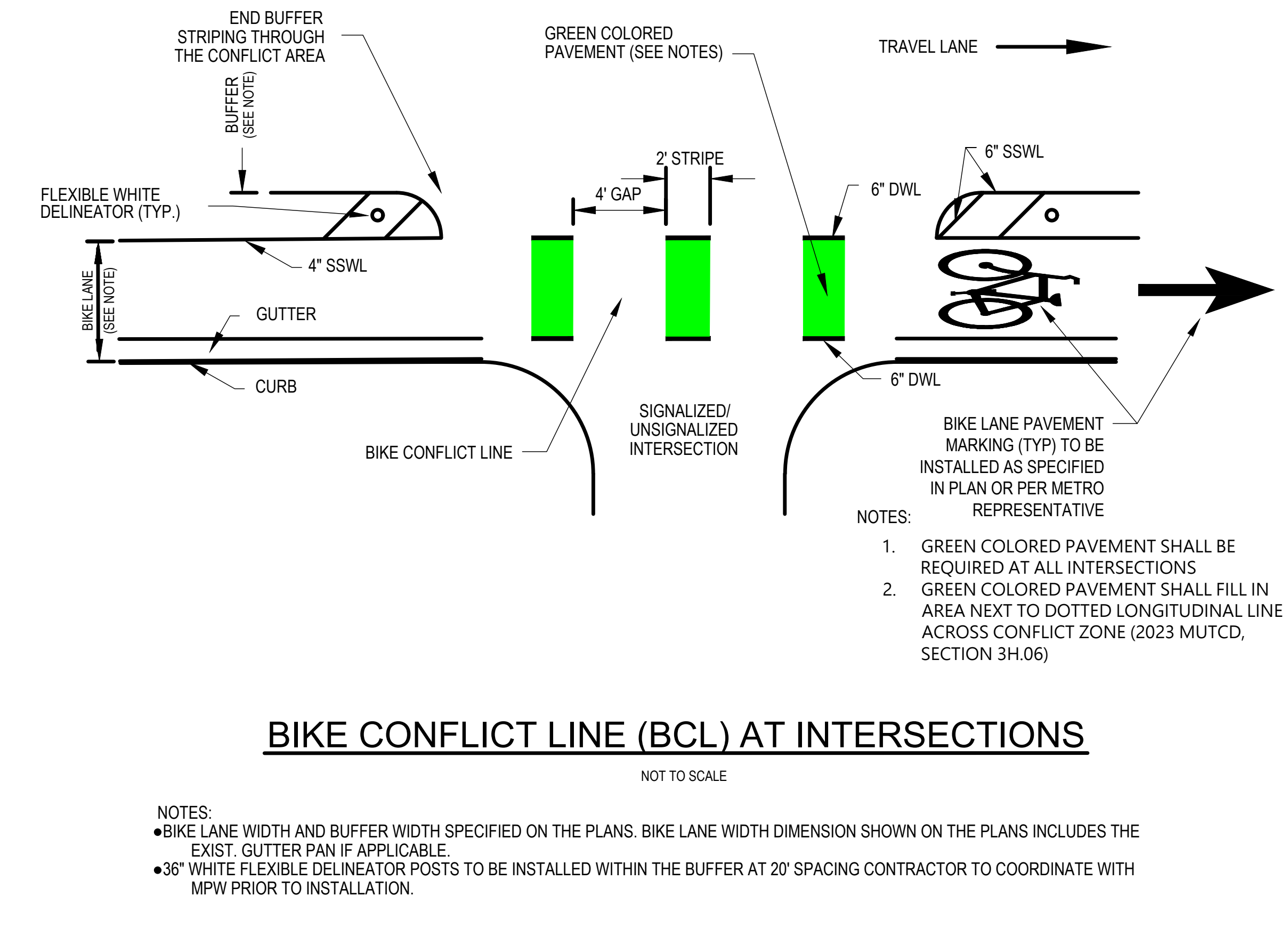
SHEET TITLE:

TYPICAL DETAILS



SIGHT TRIANGLE & BIKE CONFLICT LINE (BCL) DETAIL AT DRIVEWAYS/ALLEYS

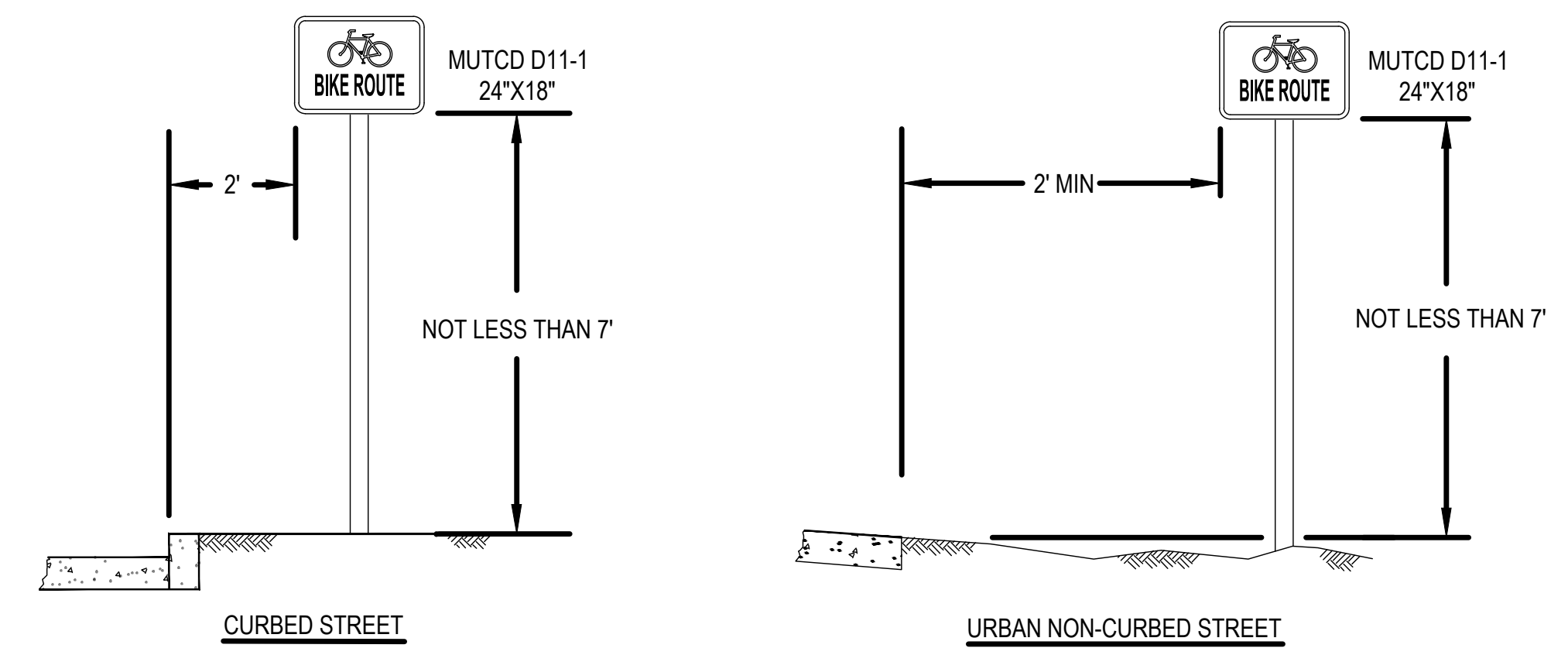
NOT TO SCALE



BIKE CONFLICT LINE (BCL) AT INTERSECTIONS

NOT TO SCALE

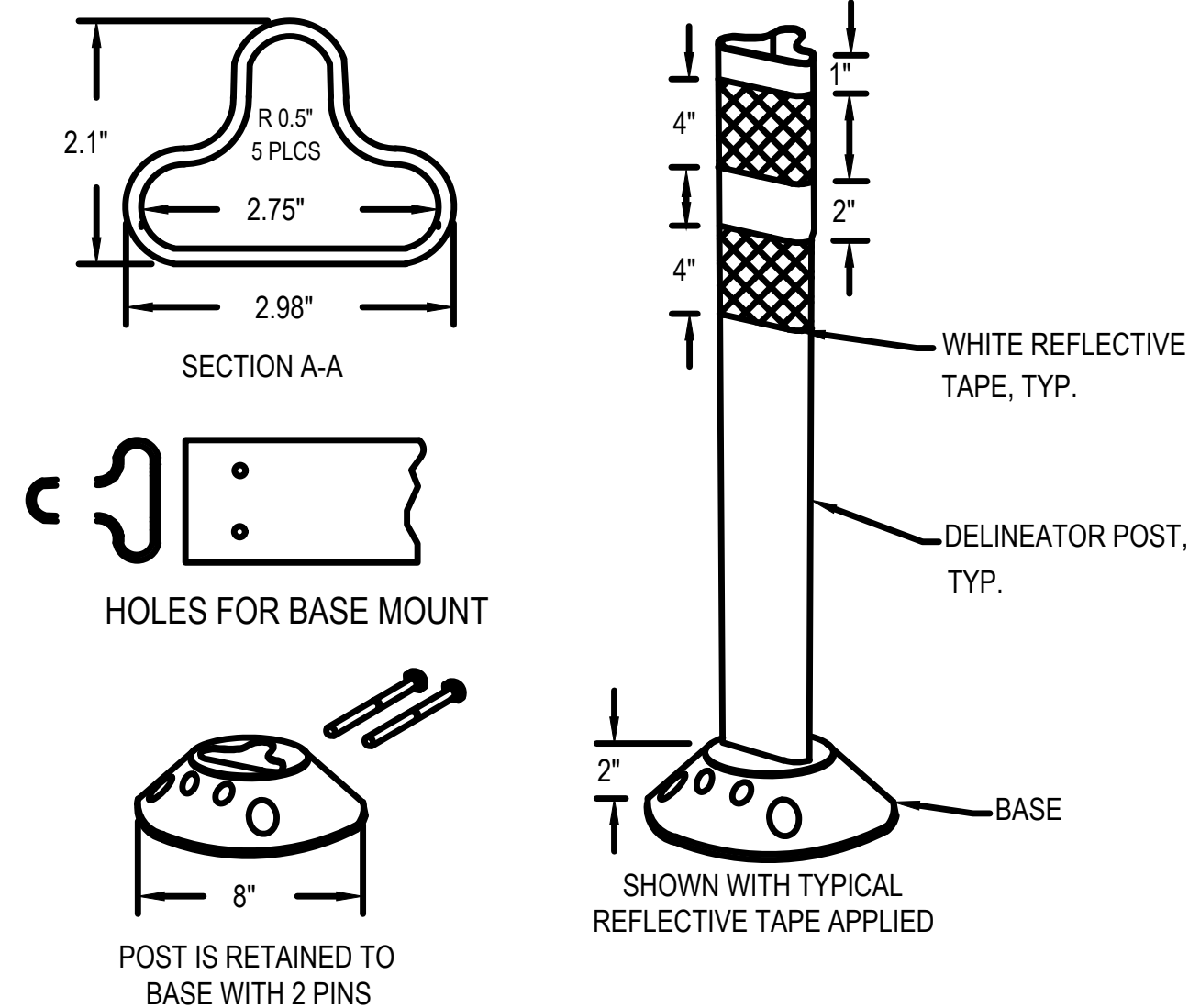
- NOTES:
- BIKE LANE WIDTH AND BUFFER WIDTH SPECIFIED ON THE PLANS. BIKE LANE WIDTH DIMENSION SHOWN ON THE PLANS INCLUDES THE EXIST. GUTTER PAN IF APPLICABLE.
 - 36" WHITE FLEXIBLE DELINEATOR POSTS TO BE INSTALLED WITHIN THE BUFFER AT 20' SPACING CONTRACTOR TO COORDINATE WITH MPW PRIOR TO INSTALLATION.



- SIGN INSTALLATION NOTES:**
- ALL SIGNS SHALL BE INSTALLED IN THE APPROXIMATE LOCATIONS SHOWN ON PLAN SHEETS. ANY DEVIATION MUST BE APPROVED BY THE METROPOLITAN DEPARTMENT OF PUBLIC WORKS.
 - SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2023 MUTCD), AND SHALL HAVE THE HEIGHT AND CLEARANCE SPECIFICATIONS SHOWN ON THIS SHEET.
 - ALL SIGNING EQUIPMENT AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE T.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 713 - HIGHWAY SIGNING, AND WITH THE SPECIFICATIONS OF METROPOLITAN NASHVILLE AND DAVIDSON COUNTY.
 - IF A SECOND SIGN IS MOUNTED BELOW AN EXISTING SIGN, IT SHALL BE 7' ABOVE TOP OF CURB
 - FOR IN-STREET SCHOOL CROSSING SIGN (R1-6B ON SHEET 8), MOUNTING HEIGHT AND SPECIAL MOUNTING SUPPORT REQUIREMENTS SHALL COMPLY WITH SECTION 2B.20 OF THE 2023 MUTCD

HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

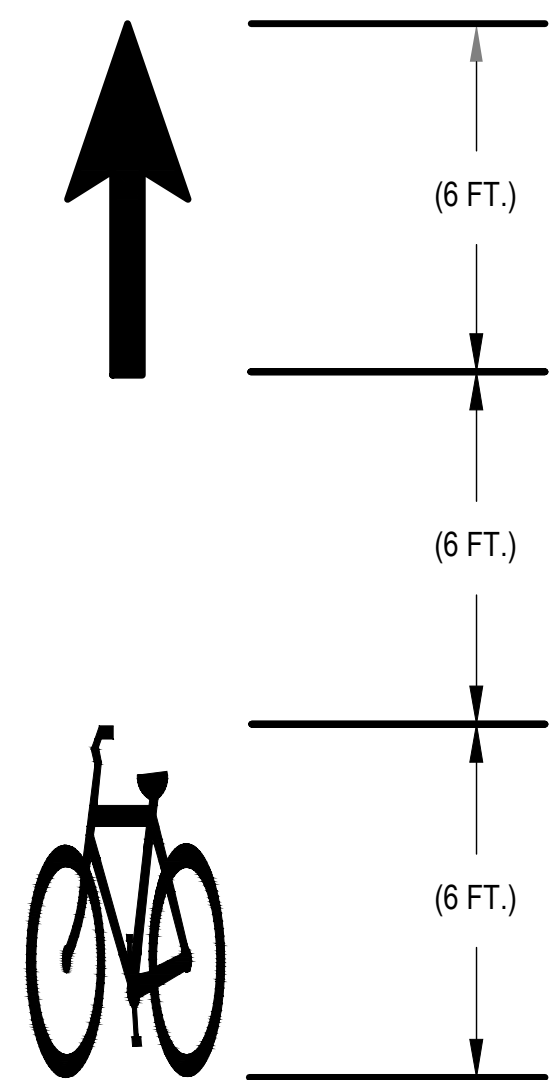
NOT TO SCALE



- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
 - COLOR OF POST SHALL MATCH COLOR OF APPLICABLE EDGE LINE AS NOTED IN PLANS.
 - SUGGESTED MANUFACTURERS INCLUDE: PEXCO DAVIDSON TRAFFIC CONTROL, SUPERIOR TRAFFIC CONTROL OR APPROVED BY METRO REPRESENTATIVE
 - DELINEATORS SHALL BE SPACED 20' CENTER-TO-CENTER OR AS OTHERWISE SPECIFIED IN THE PLANS
 - CONTRACTOR TO COORDINATE WITH MPW PRIOR TO INSTALLATION.

36" FLEXIBLE DELINEATOR POST DETAIL

NOT TO SCALE

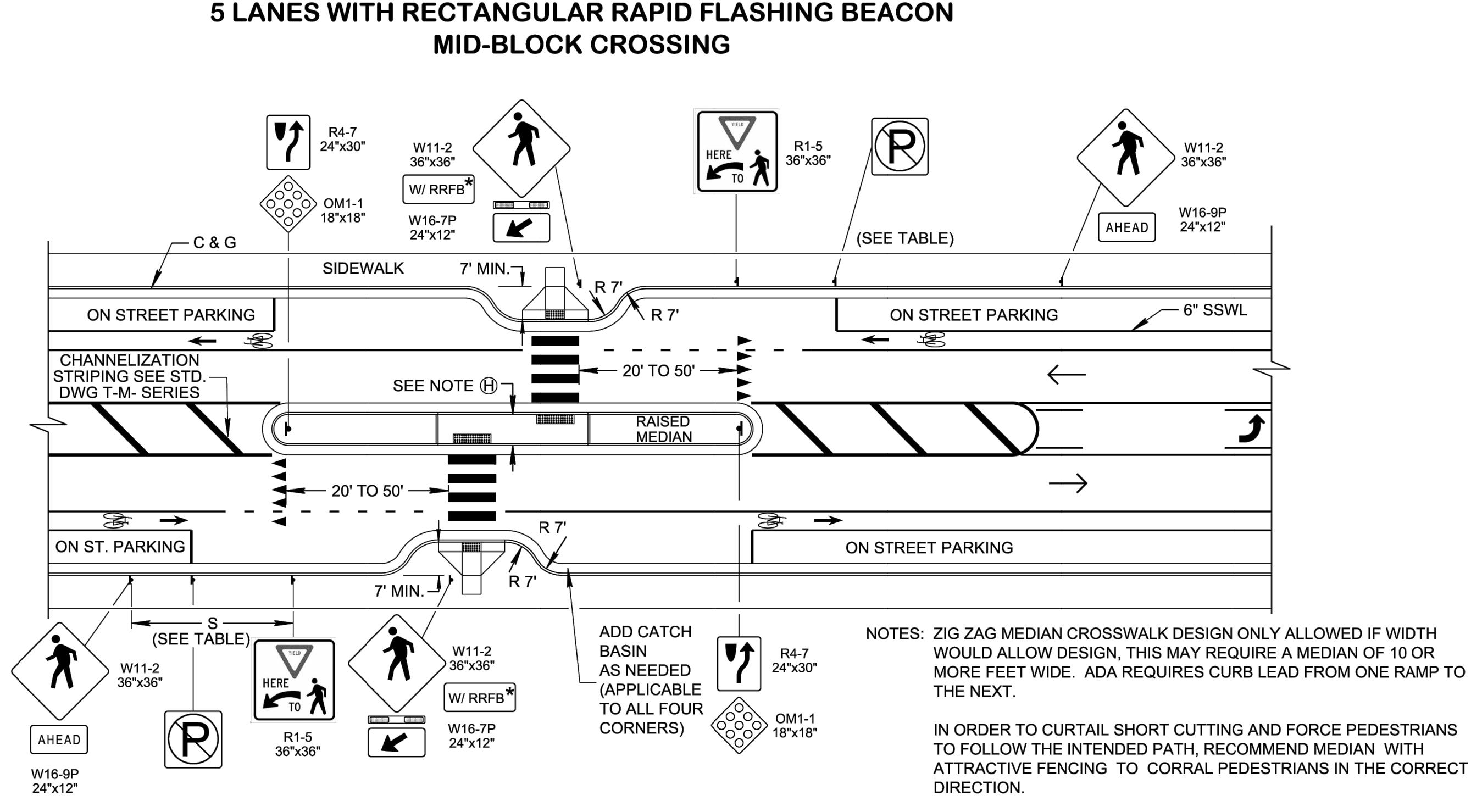
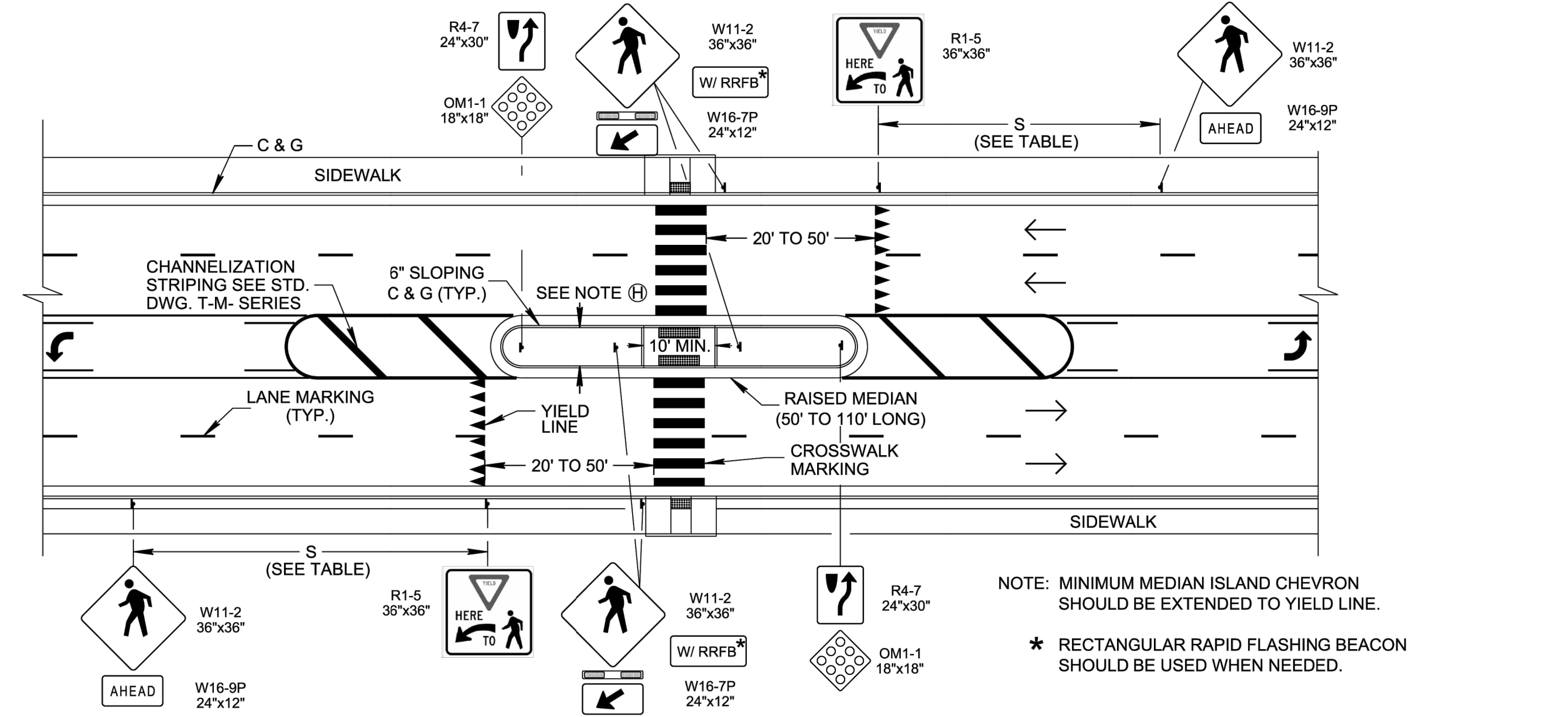


- NOTES:**
- REFER TO MUTCD 2023 EDITION PART 9 FIGURE 9E-1 WORD, SYMBOL, AND ARROW PAVEMENT MARKINGS FOR BICYCLE LANES. REDUCED SIZE MARKINGS TO BE USED WHERE REQUIRED IN THE FIELD, SCALE AS NEEDED.
 - BIKE LANE PAVEMENT MARKING SYMBOLS SHALL BE INSTALLED AT 800' SPACING OR IMMEDIATELY FOLLOWING A CONFLICT ZONE AS SHOWN IN THE PLANS.

BIKE LANE PAVEMENT MARKING DETAIL

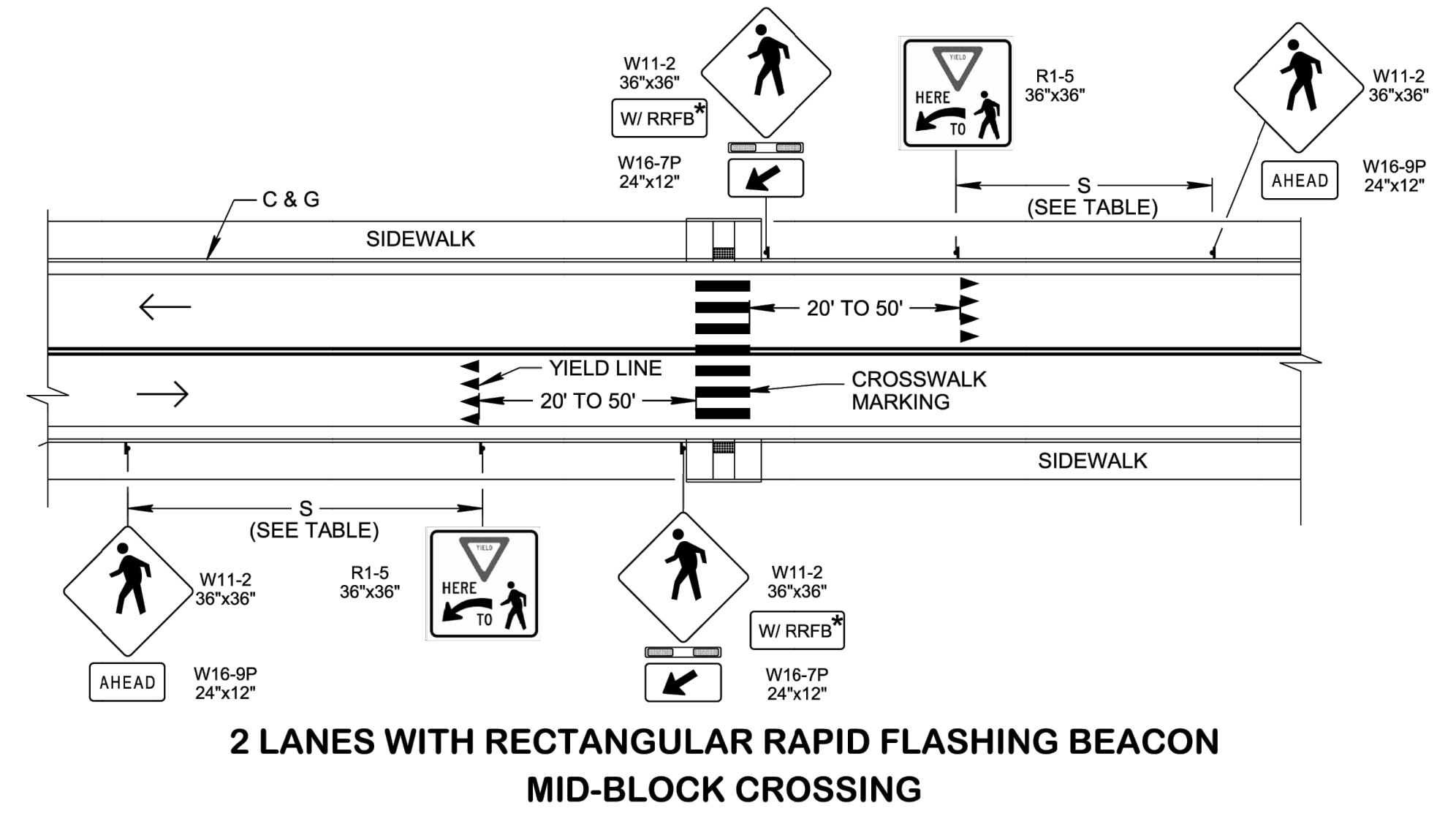
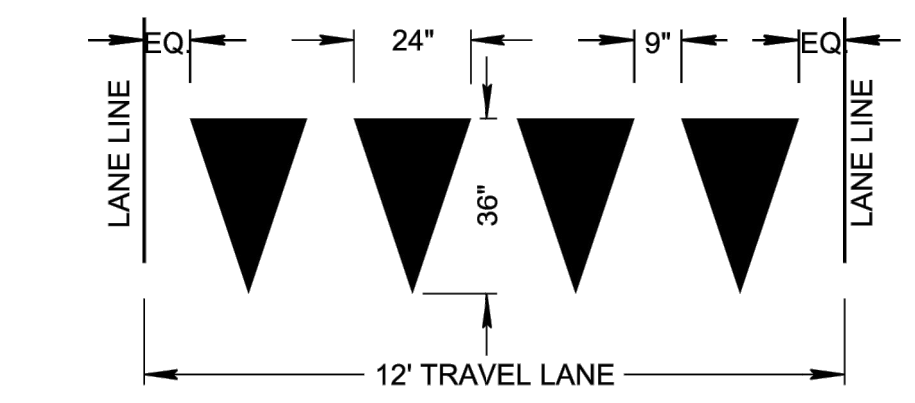
NOT TO SCALE

C:\ATHAVEN\PROJ_DWG_024-010\DESIGN\04\6671_AE DETAILS.DWG, 9/17/2024, 4:31 PM, JERRY CLARK
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MINIMUM ADVANCE PLACEMENT OF PEDESTRIAN WARNING SIGNS	
POSTED SPEED	WARNING SIGNS MINIMUM ADVANCE PLACEMENT DISTANCE - S
≤ 35 MPH	100 FT
40 MPH	125 FT

LEGEND	
	GROUND MOUNT SIGN
	DETECTABLE WARNING SURFACE
	RECTANGULAR RAPID FLASHING BEACON
	PAVEMENT MARKING SYMBOLS
	DIRECTION OF TRAFFIC



- GENERAL NOTES**
- (A) DETAILS SHOWN ON THIS STANDARD DRAWING APPLY TO THE CONSTRUCTION OR RECONSTRUCTION OF MID-BLOCK CROSSINGS AND MODIFICATION OF STREETS, CURBS, OR SIDEWALKS ASSOCIATED WITH IT. SEE TDOT-RDG FOR ADDITIONAL INFORMATION FOR SITE SELECTION, NEW CONSTRUCTION OR RECONSTRUCTION DURING PEDESTRIAN SAFETY INITIATIVE, SPOT SAFETY IMPROVEMENTS AT LOCATIONS MAX 45 MPH. OTHER LOCATIONS WILL NEED SITE SPECIFIC ANALYSIS.
 - (B) FOR NEW CONSTRUCTION A TRAFFIC ENGINEERING STUDY WILL HAVE TO BE CONDUCTED TO DETERMINE IF A MID-BLOCK CROSSING IS WARRANTED. MID-BLOCK CROSSINGS SHALL BE INSTALLED DURING RECONSTRUCTION PROJECTS AND REPAVING PROJECTS AT LOCATIONS WHERE EXISTING PEDESTRIAN SAFETY IS A CONCERN.
 - (C) PEDESTRIAN IN CROSSWALK SIGNS (W11-2) SHALL BE INSTALLED AT EACH END OF THE CROSSWALK LOCATION. THE SIGNS SHALL BE PLACED IN ADVANCE OF THE CROSSWALK ADJACENT TO THE TRAVEL LANE AND FACING THE DRIVER. REFER TO THE MUTCD FOR ADDITIONAL WARNING SIGNS, TYPE AND LOCATION.
 - (D) FOR CURB RAMP, THE DETECTABLE WARNING SURFACE, PAVEMENT MARKINGS, AND CROSSWALK MARKING DETAILS, SEE STD. DWG. SERIES MM-CR AND MM-PM RESPECTIVELY. FOR MARKING STANDARDS AND CONCRETE CURB AND GUTTER SEE STD. DWG T-M- SERIES AND RP-VC SERIES RESPECTIVELY.
 - (E) WHILE LOCATION OF SIGN OR PEDESTRIAN SIGNAL MAY VARY BASED ON SITE CONDITIONS, ANY PEDESTRIAN PUSHBUTTON SHALL MEET ALL REQUIREMENTS FOR HEIGHT AND REACH RANGE PER PROWAG. 4FT BY 4FT LANDINGS (MAX 2% SLOPE) SHALL BE ADJACENT TO ANY PUSHBUTTON. PEDESTRIAN PUSHBUTTON SHALL BE INSTALLED IN COMPLIANCE WITH SECTION 4E.08 OF THE MUTCD. AND REFER TO STANDARD DRAWING T-SG-6 FOR PEDESTRIAN PUSHBUTTON POST DETAILS.
 - (F) SEE SECTION 3B.18 OF THE MUTCD FOR UNSIGNALIZED MIDBLOCK CROSSINGS.
 - (G) A DEVICE THAT MAY BE USED TO ASSIST PEDESTRIANS CROSSING IN A MARKED CROSSWALK AT AN UNSIGNALIZED INTERSECTION IS A RECTANGULAR RAPID FLASHING BEACON (RRFB). RRFB'S ARE PARTICULARLY EFFECTIVE AT MULTILANE CROSSINGS WITH SPEED LIMITS LESS THAN 40 MPH. CONSIDER THE PEDESTRIAN HYBRID BEACON (PHB) INSTEAD OF RRFB'S FOR ROADWAYS SPEED LIMITS ARE EQUAL TO OR GREATER THAN 40 MPH SEE STANDARD DRAWING T-M-4B FOR SIGNALIZED MID-BLOCK CROSSING.
 - (H) A MEDIAN SHOULD BE AT LEAST 8.0 FEET WIDE TO ALLOW THE PEDESTRIAN TO WAIT COMFORTABLY IN THE CENTER. IF THE DESIRED 8 FEET CANNOT BE ACHIEVED, USE A MINIMUM WIDTH OF 6 FEET. THE PEDESTRIAN CROSSWALK MEDIAN ISLAND ARE ADA-APPROVED RAMPS (1:12 GRADE) SHOULD BE USED. IT IS BEST TO PROVIDE A SLIGHT GRADE 2 PERCENT TO PERMIT WATER AND SILT TO DRAIN FROM THE AREA. DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMPS. INSTALL CATCH BASINS ON UPSTREAM SIDE OF RAMP FOR ROADS WITH GRADES LESS THAN 2%.
 - (I) PARKING AND OTHER SIGHT OBSTRUCTIONS SHOULD BE PROHIBITED FOR AT LEAST 100 FEET IN ADVANCE OF AND AT LEAST 20 FEET BEYOND THE MARKED CROSSWALK, OR SITE ACCOMMODATIONS SHOULD BE MADE THROUGH CURB EXTENSIONS OR OTHER TECHNIQUES TO PROVIDE ADEQUATE SIGHT DISTANCE. THE INSTALLATION SHOULD INCLUDE SUITABLE STANDARD SIGNS AND PAVEMENT MARKINGS.
 - (J) DESIGNERS OF MIDBLOCK CROSSINGS SHOULD ALSO CONSIDER ADDING OR ENHANCING STREET ILLUMINATION TO IMPROVE PEDESTRIAN SAFETY.
 - (K) MIDBLOCK CROSSINGS SHOULD BE LOCATED AT LEAST 100 FEET FROM THE NEAREST SIDE STREET OR DRIVEWAY SO THAT DRIVERS TURNING ONTO THE MAJOR STREET HAVE A CHANCE TO NOTICE PEDESTRIANS AND PROPERLY YIELD TO PEDESTRIANS WHO ARE CROSSING THE STREET.
 - (L) ADD CHANNELIZING DEVICES AT MID-BLOCK PEDESTRIAN CROSSINGS IN CONJUNCTION WITH IN STREET PEDESTRIAN CROSSING (R1-6 SERIES) SIGNS AS NEEDED.
 - (M) PAYMENT

702-01, 702-03, 713-15.40, 716-02.03, 716-02.04, 716-02.05, 716-04.12, 730-26.07, 730-50.20, 730-50.21,	CONCRETE CURB, CONCRETE COMBINED CURB AND GUTTER, SIGN INSTALLATION (DESCRIPTION), PLASTIC PAVEMENT MARKING (CROSS-WALK), PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPNG), PLASTIC PAVEMENT MARKING (STOP LINE), PLASTIC PAVEMENT MARKING (YIELD LINE), FLASHING WARNING BEACON (DESCRIPTION), RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (SOLAR POWERED), RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (HARD-WIRED),	PER C.Y., PER C.Y., PER L.S., PER L.F., PER S.F., PER L.F., PER S.F., PER EACH, PER EACH, PER EACH,
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STATE OF TENNESSEE
 STANDARD DRAWING
 DEPARTMENT OF TRANSPORTATION

STANDARD
 UNSIGNALIZED
 MID-BLOCK CROSSING

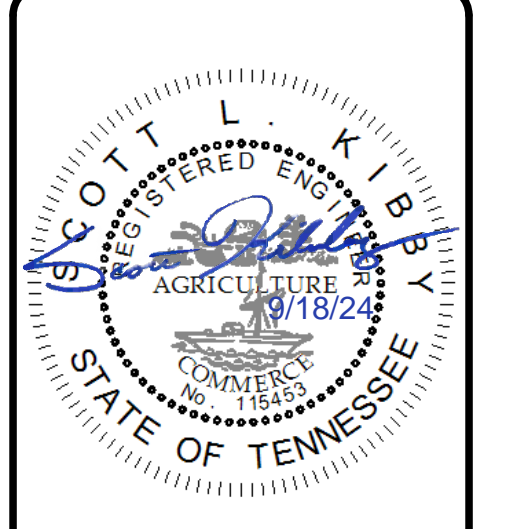
04-08-2020 T-M-4A

REV. 07-17-20: REMOVED RIGHT TURN ARROWS FROM THE MIDDLE LANE.
 REV. 11-30-20: REVISED CROSSWALK SIGN ON GENERAL NOTE (C). ADDED GENERAL NOTE (M)
 REV. 06-15-21: REVISED GENERAL NOTE (E)
 REV. 05-04-22: REVISED DOWNWARD DIAGONAL ARROW SIGN DESIGNATION.
 REV. 03-01-23: ITEM NUMBERS 730-50.20 AND 730-50.21 WERE ADDED ON GENERAL NOTE (M). ADDED DIRECTION OF TRAFFIC AND PM SYMBOLS UNDER LEGEND. CHANGED W11-2 SIZE FROM 30"x30" TO 36"x36" FOR SINGLE LANE ROADS. ADDED RRFB CELL ON THE DRAWINGS. REMOVED YIELD AHEAD PM. REVISED GENERAL NOTES (E), (F), (H) AND (K). DELETED GENERAL NOTE (C) AND REARRANGED GENERAL NOTE NUMBERS.

LDA ENGINEERING

REV	DATE	REVISION DESCRIPTION

**METROPOLITAN GOVERNMENT OF NASHVILLE
 AND DAVIDSON COUNTY, TENNESSEE**
 46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
 FROM MURPHY ROAD TO CHARLOTTE AVENUE

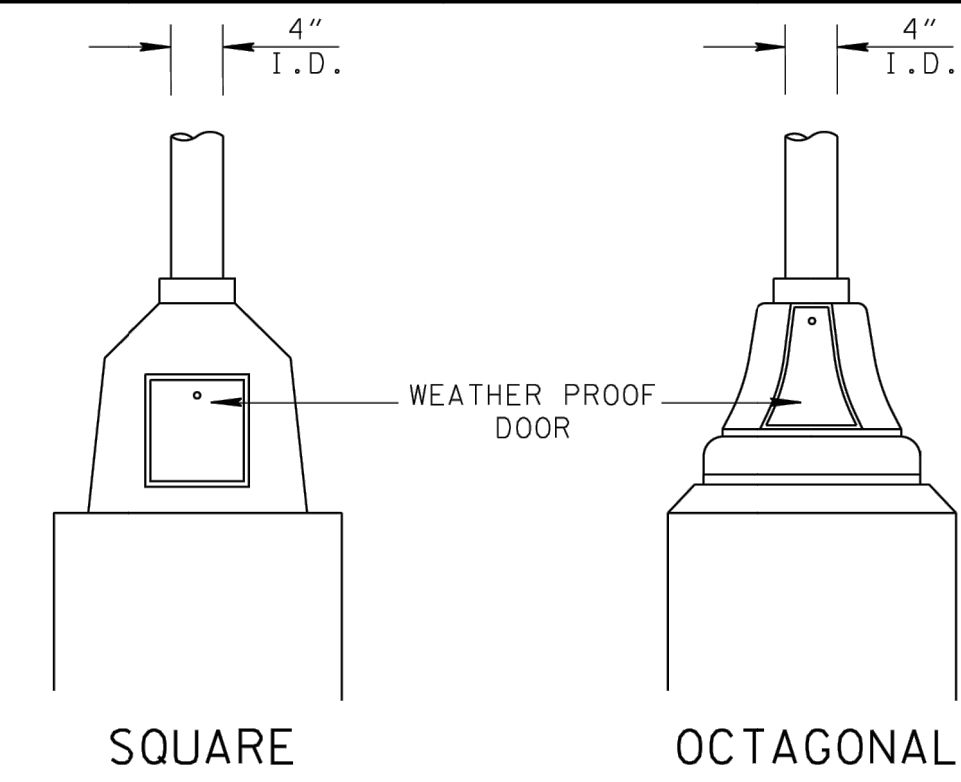


PROJECT NUMBER: NDT418
 DATE: 9-2024 SCALE:
 DRAWN BY: JWC DESIGNED BY: ZDB

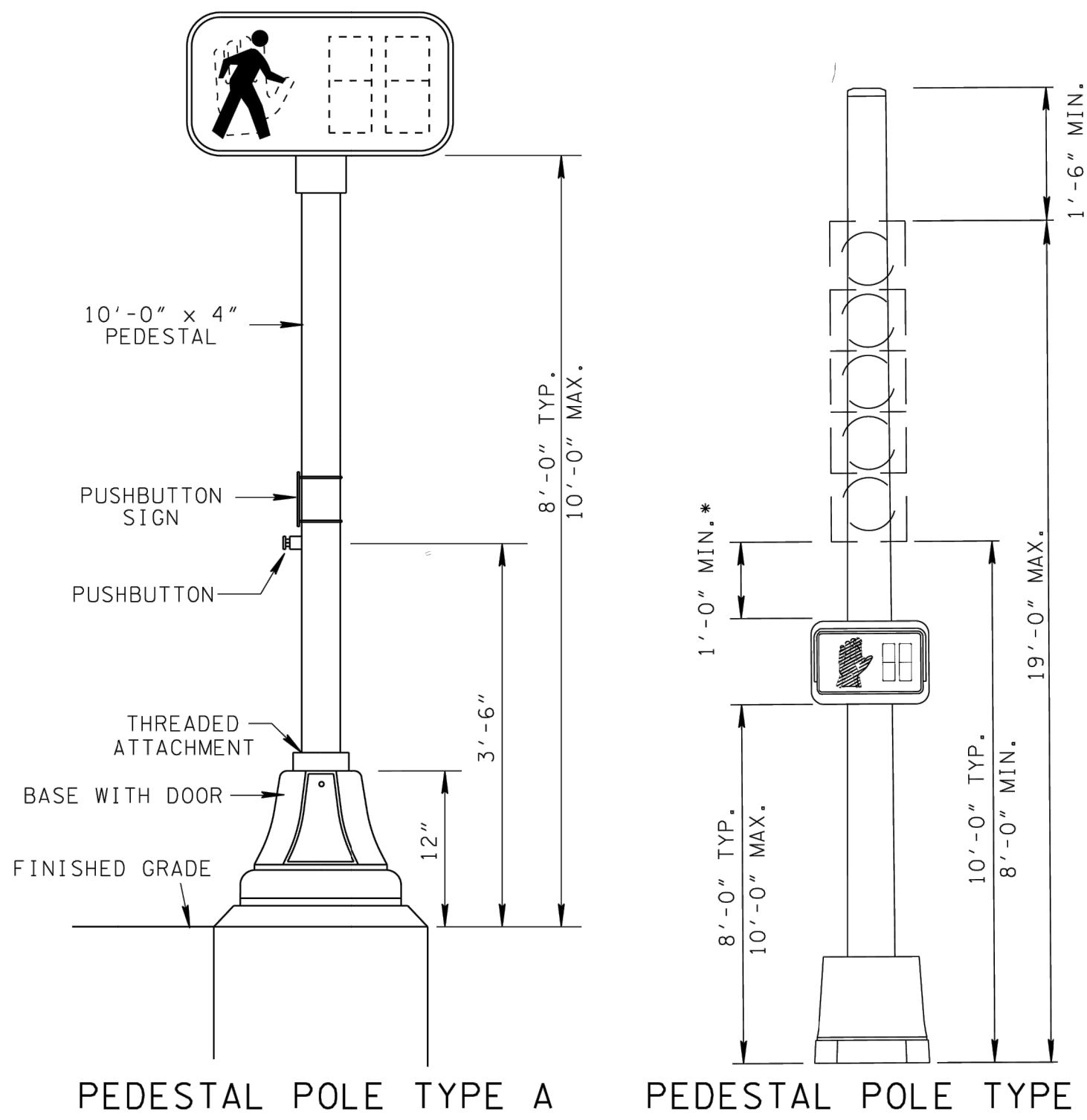
SHEET TITLE:
**TYPICAL
 DETAILS**

C:\ATHAVEN\PROJ_024_2024-010\DESIGN\04\VERT_AVE DETAILS.DWG, 9/17/2024 4:31 PM, JERRY CLARK

0/17/2019 1:26:39 PM
 P:\Traffic Operations Division\Traffic\DESIGN\Standard Drawings\Signals\ISD\NN PROGRESS\TSG6_083019.dgn



CAST PEDESTAL BASE ALTERNATES



PEDESTAL POLE TYPE A

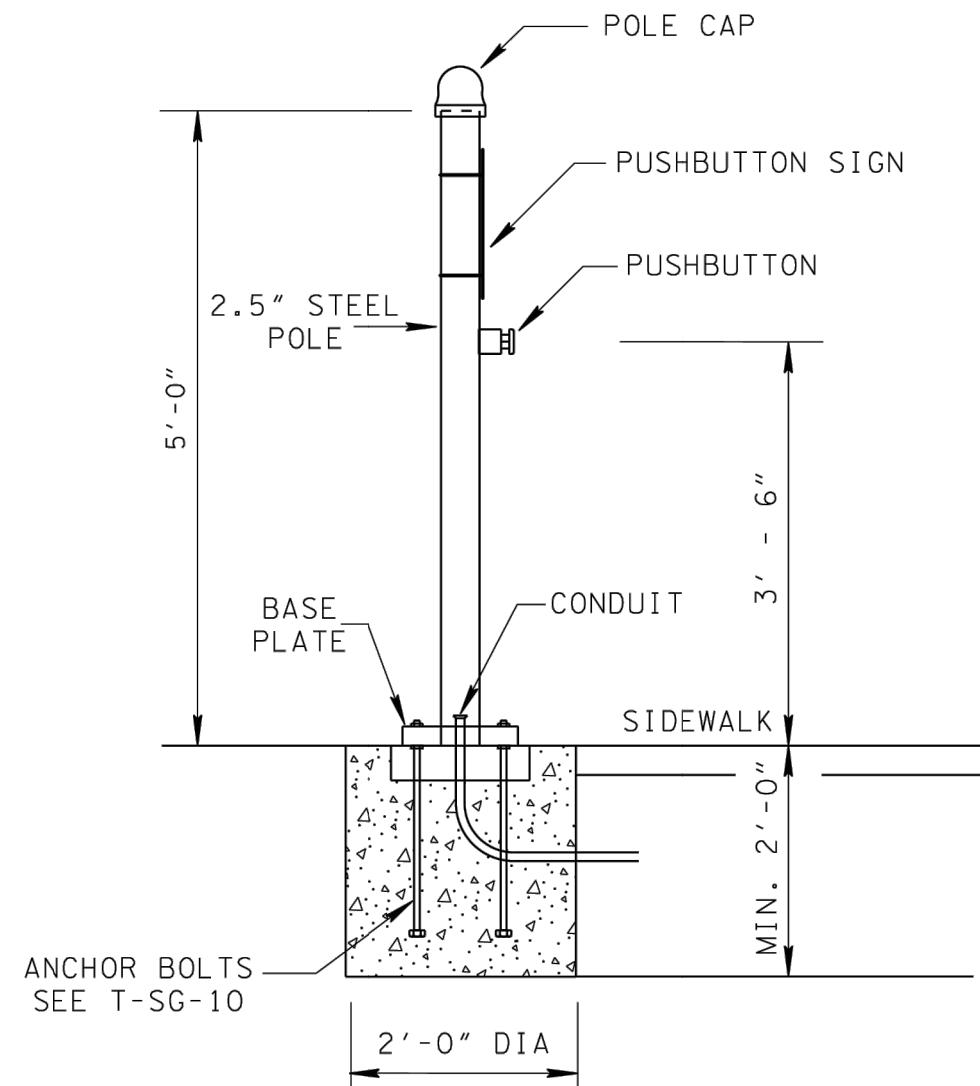
PEDESTAL POLE TYPE B

FOR PEDESTAL POLE FOOTING
 SEE 2' DIAMETER FOOTING ON T-SG-10

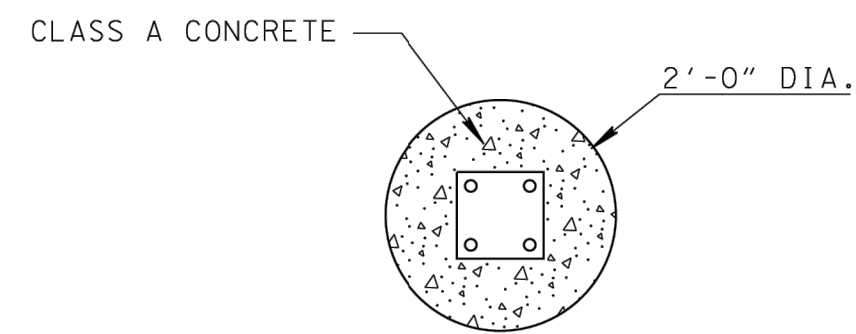
* IF PEDESTRIAN DISPLAYS ARE PROVIDED ON
 SAME POLE, THE MINIMUM HEIGHT OF THE
 VEHICULAR DISPLAY SHALL BE AT LEAST ONE
 FOOT ABOVE THE TOP OF THE PEDESTRIAN
 DISPLAY, HOUSING, AND BRACKETS.

PEDESTRIAN GENERAL NOTES

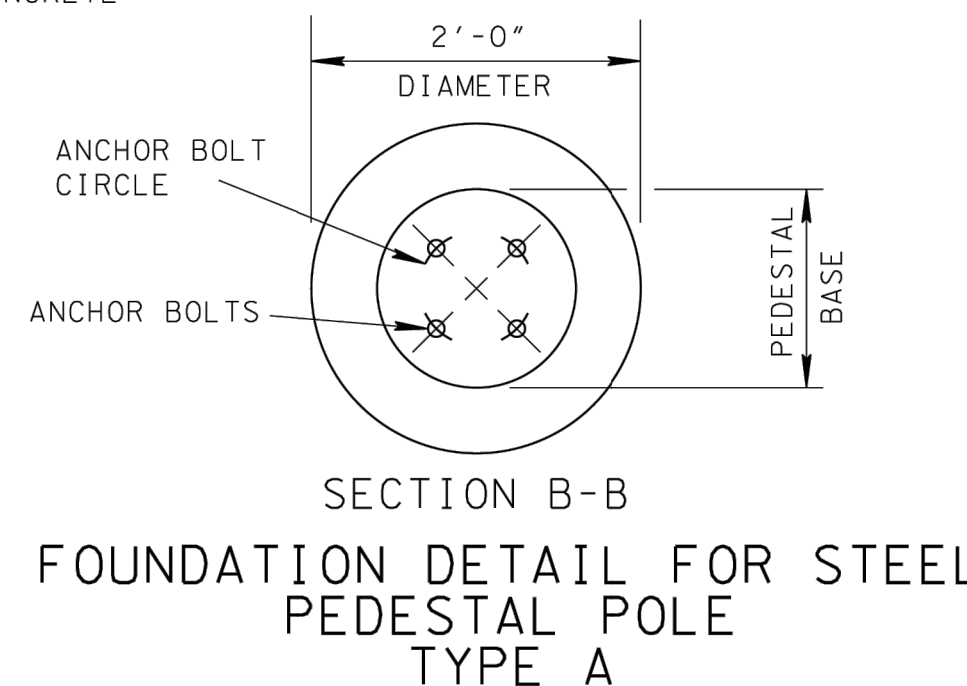
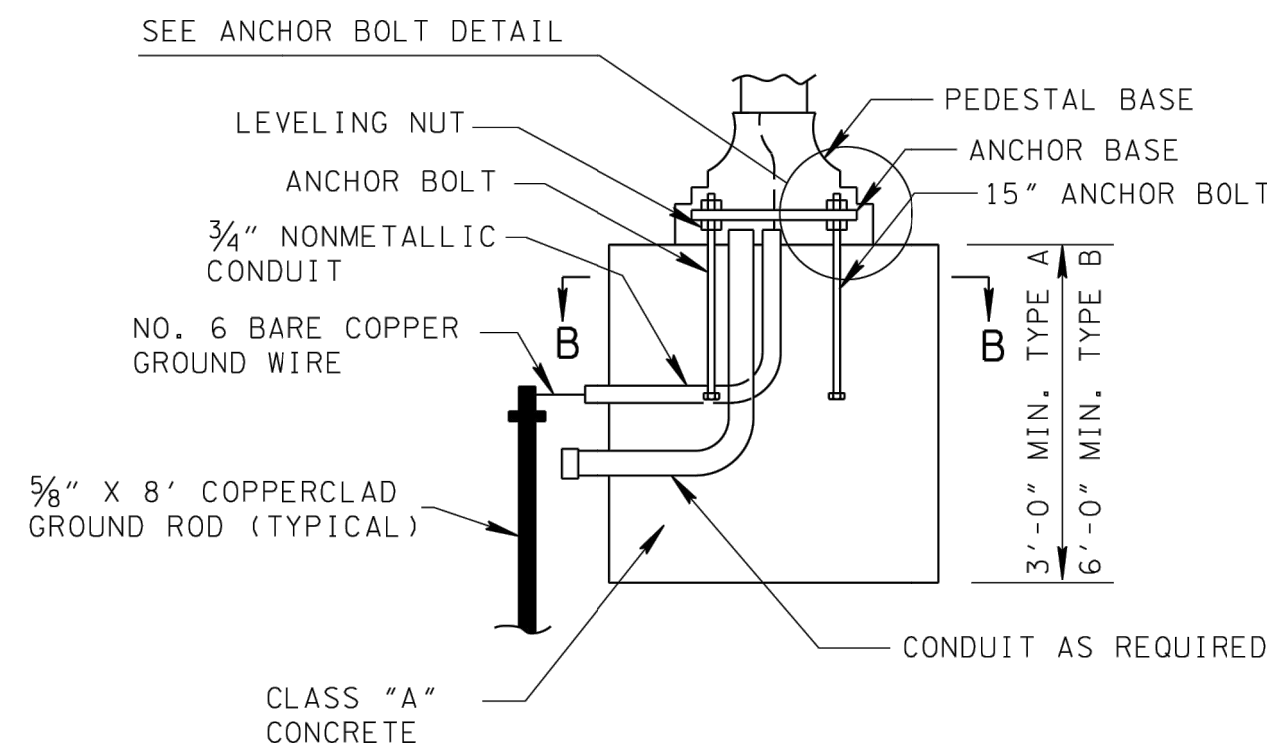
- (A) WHERE PEDESTRIAN SIGNAL HEADS ARE PROVIDED AT PEDESTRIAN STREET CROSSINGS, THEY SHALL INCLUDE ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTONS COMPLYING WITH SECTIONS 4E.08 THROUGH 4E.13 OF THE MUTCD (INCORPORATED BY REFERENCE, SEE R104.2). OPERABLE PARTS SHALL COMPLY WITH R403.
 - (B) PUSHBUTTONS AT SIGNALIZED CROSSWALKS SHALL INCORPORATE A LOCATOR TONE MEETING THE REQUIREMENTS OF MUTCD SECTION 4E.12, SUBSECTION 04 THROUGH 06. AN ACCESSIBLE PEDESTRIAN SIGNAL AND PEDESTRIAN PUSHBUTTON IS AN INTEGRATED DEVICE THAT COMMUNICATES INFORMATION ABOUT THE WALK AND DON'T WALK INTERVALS AT SIGNALIZED INTERSECTIONS IN NON-VISUAL FORMATS (I.E. AUDIBLE TONES AND VIBROTACTILE SURFACES) TO PEDESTRIANS WHO ARE BLIND OR HAVE LOW VISION.
 - (C) PEDESTRIAN PUSHBUTTON SHALL PROVIDE TACTILE VIBRATING ARROW BUTTON AND AUDIBLE SOUND.
 - (D) THE COST OF PEDESTRIAN PUSHBUTTON SHALL INCLUDE THE FRAME, SIGN, ADA COMPLIANT PUSHBUTTON, AND MOUNTING HARDWARE.
- 730-26.11 COUNTDOWN PEDESTRIAN SIGNAL HEAD W/ AUDIBLE
 PUSHBUTTON & 15" SIGN



PEDESTRIAN PUSHBUTTON POST

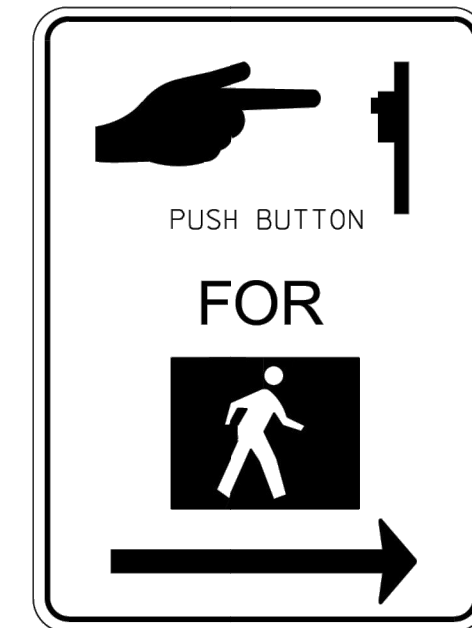


FOUNDATION DETAIL
 PEDESTRIAN PUSHBUTTON POST

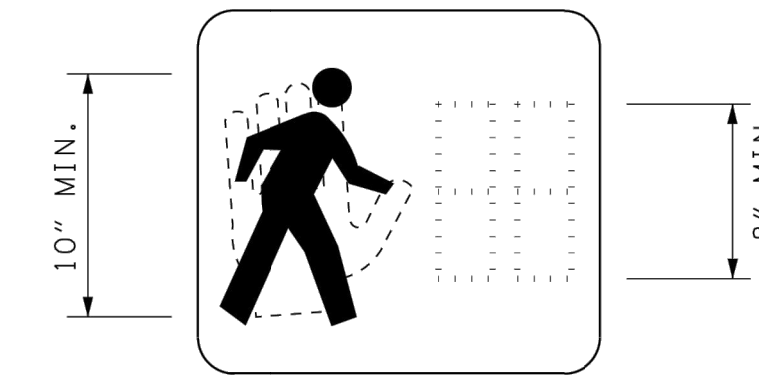


SECTION B-B
 FOUNDATION DETAIL FOR STEEL
 PEDESTAL POLE
 TYPE A

REV. 10-21-19: CORRECTED
 SPELLING OF "PEDESTAL".



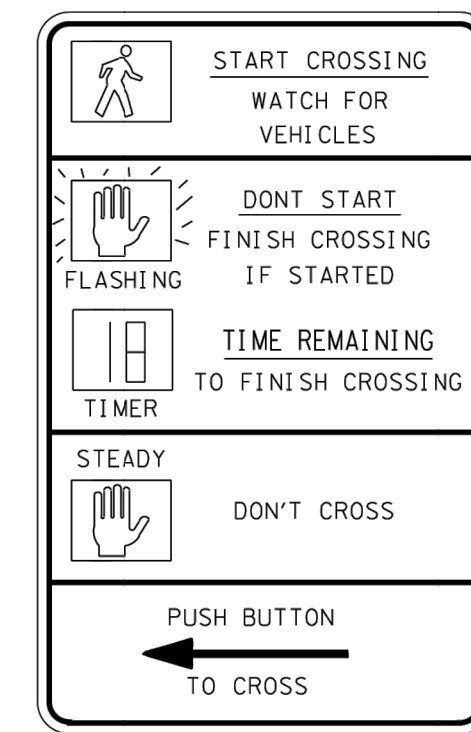
R10-3 (9"x12")



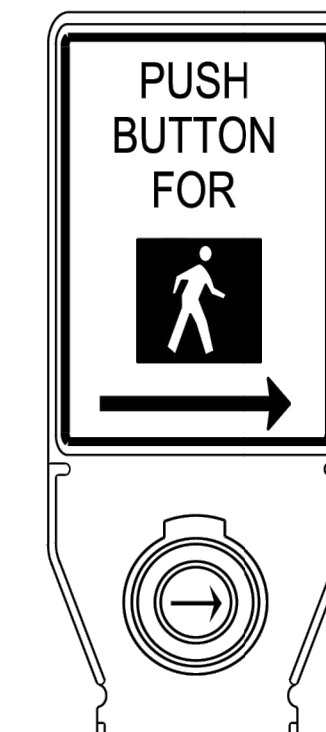
COLOR LEGEND
 MAN - WHITE
 HAND - PORTLAND ORANGE
 NUMBERS - PORTLAND ORANGE

COUNTDOWN PEDESTRIAN
 CROSSWALK SIGNAL

NOTE: SEE SECTION 4E.07
 OF THE MUTCD FOR
 ADDITIONAL INFORMATION.



R10-3E (9"x15")



R10-3 (MOD.) (5.44"x14.09")

PEDESTRIAN PUSHBUTTON SIGNS
 LEFT & RIGHT

LEGEND - WHITE "WALK" (FIGURE) ON BLACK
 ORANGE "DON'T WALK" (HAND) ON BLACK
 ALL ELSE BLACK
 BACKGROUND - WHITE (REF.)
 LOCATION - IMMEDIATELY ABOVE PUSHBUTTON

MATERIAL - TYPE II REFLECTIVE SHEETING
 1) MOUNTED ON 0.064" MINIMUM
 THICK FLAT SHEET ALUMINUM AND
 BANDED TO WOOD POLES, STEEL
 POLES, OR PEDESTAL POLES.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

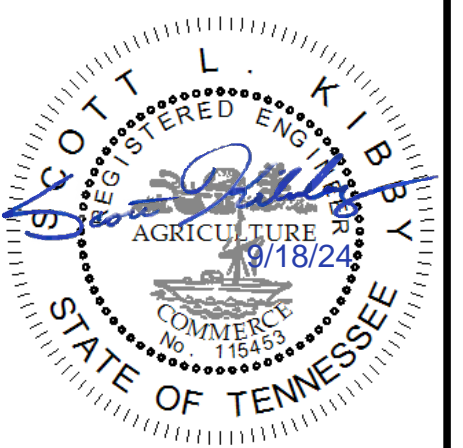
PEDESTRIAN SIGNAL
 DETAILS

6-27-16 T-SG-6



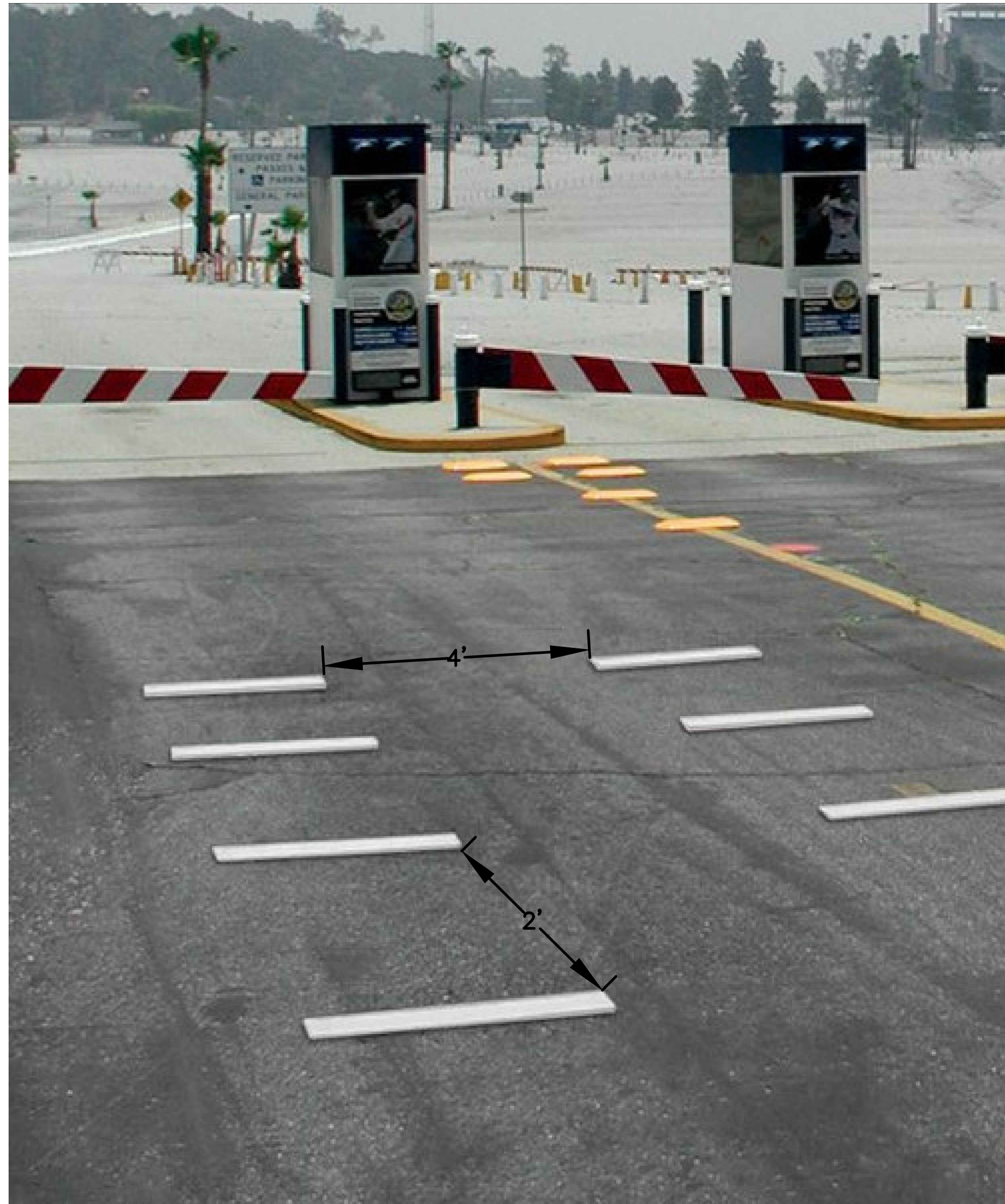
REV. DATE REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
 AND DAVIDSON COUNTY, TENNESSEE
 46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
 FROM MURPHY ROAD TO CHARLOTTE AVENUE



PROJECT NUMBER: NDT418
 DATE: 9-2024 SCALE:
 DRAWN BY: JWC DESIGNED BY: ZDB

SHEET TITLE:
 TYPICAL
 DETAILS



Made from a specially formulated, glass-filled polymer.

These strips provide both a physical and audible warning for motorists.

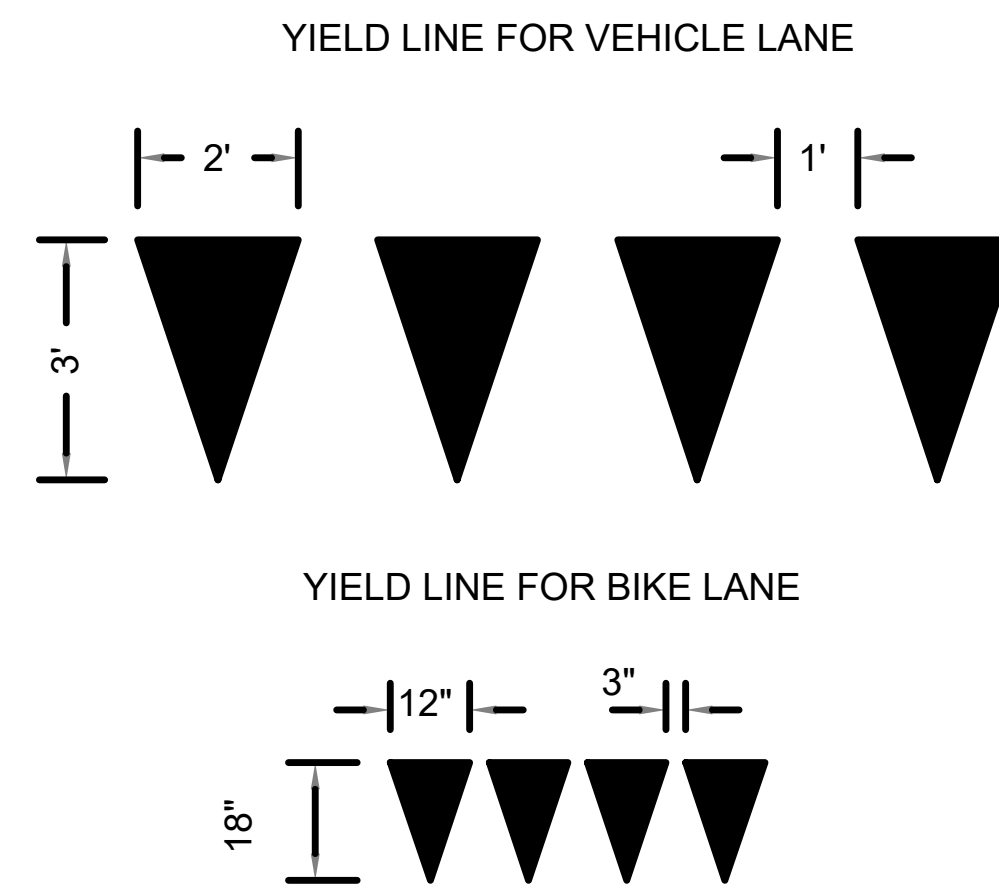
They also have a raised dot grip system and special grooves for improved adhesion.

4" W x 24" L x .5" H

1 quart of epoxy will install 6 strips

TAPCO RUMBLE STRIP DETAIL

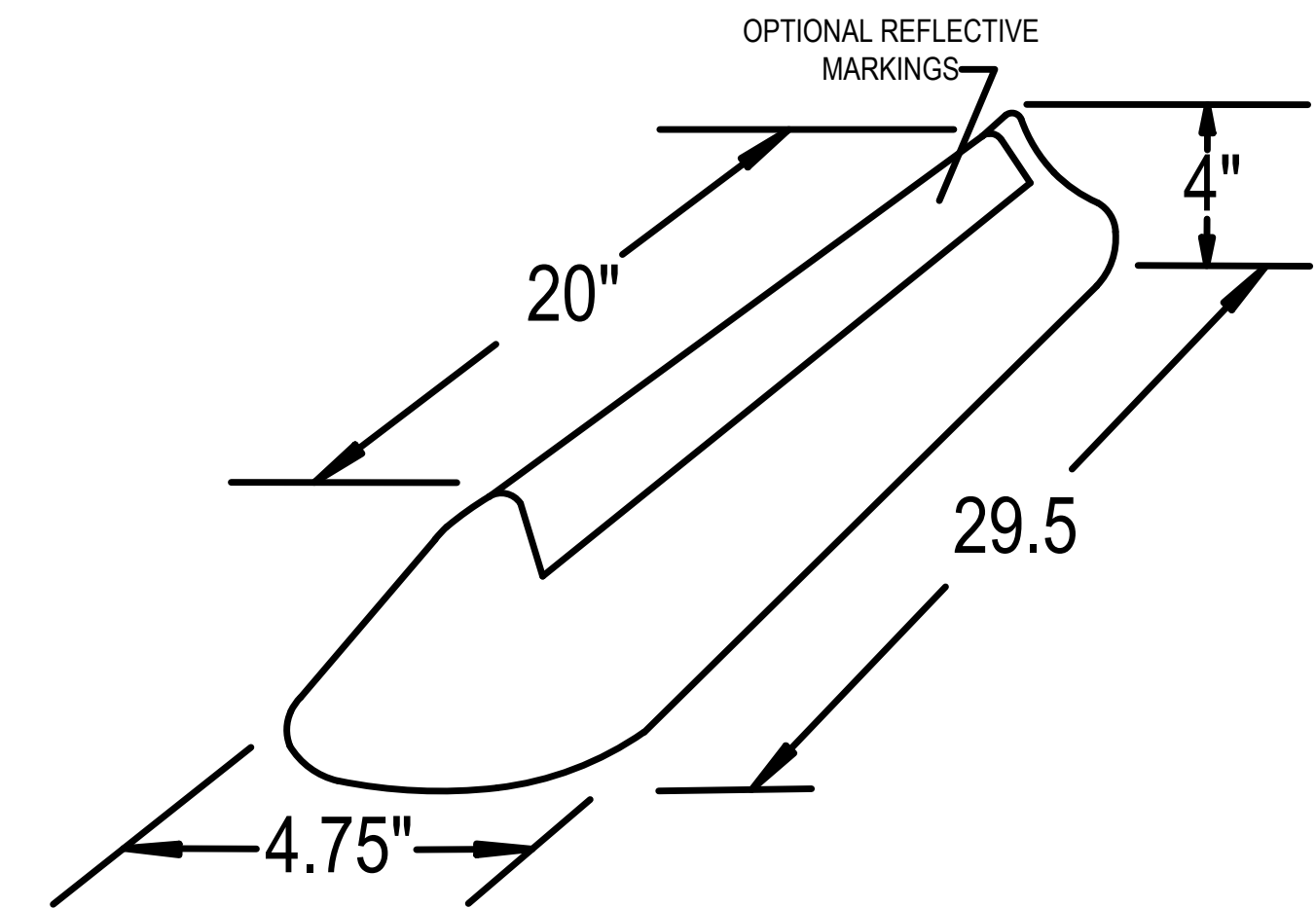
NOT TO SCALE



NOTE:
REFER TO MUTCD 2023 EDITION
SECTION 3B.19 AND FIGURE 3B-16. FOR
RECOMMENDED YIELD LINE LAYOUTS.
ALSO SEE TDOT T-M-4A, SHEET 4

YIELD LINE DETAIL

NOT TO SCALE



CYCLE LANE DETAIL

NOT TO SCALE

SIGN SCHEDULE

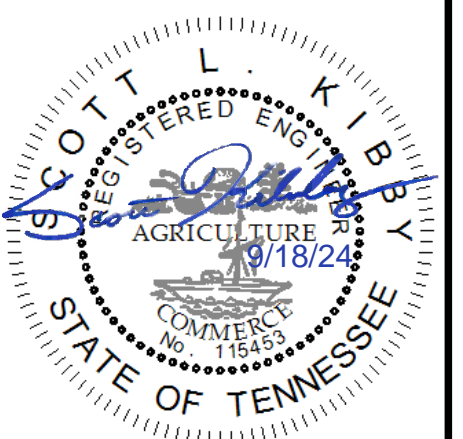
SIGN	SIGN ID	DIMENSIONS	AREA (S.F.)	QUANTITY	TOTAL AREA (S.F.)
	R9-20	30"X30"	6.25	5	32
	R3-17	24"X18"	3	10	30
	R3-17bP	24"X8"	1.33	1	2
	W11-2	36"X36"	9	6	54
	W16-7PL	21"X15"	2.19	6	14
	W16-9P	24"X12"	2	2	4
	R1-5	36"X36"	9	4	36
	D11-1	24"X18"	3	3	9
	M6-3P	12"X9"	0.75	2	2
	M6-4P	12"X9"	0.75	3	3
	W4-4P	24"X12"	2	4	8
	W16-7PR	21"X15"	2.19	2	5
	S1-1	36"X36"	9	4	36
	R1-6b	12"X36"	3	2	6

NOT TO SCALE



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AND DAVIDSON COUNTY, TENNESSEE
46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
FROM MURPHY ROAD TO CHARLOTTE AVENUE

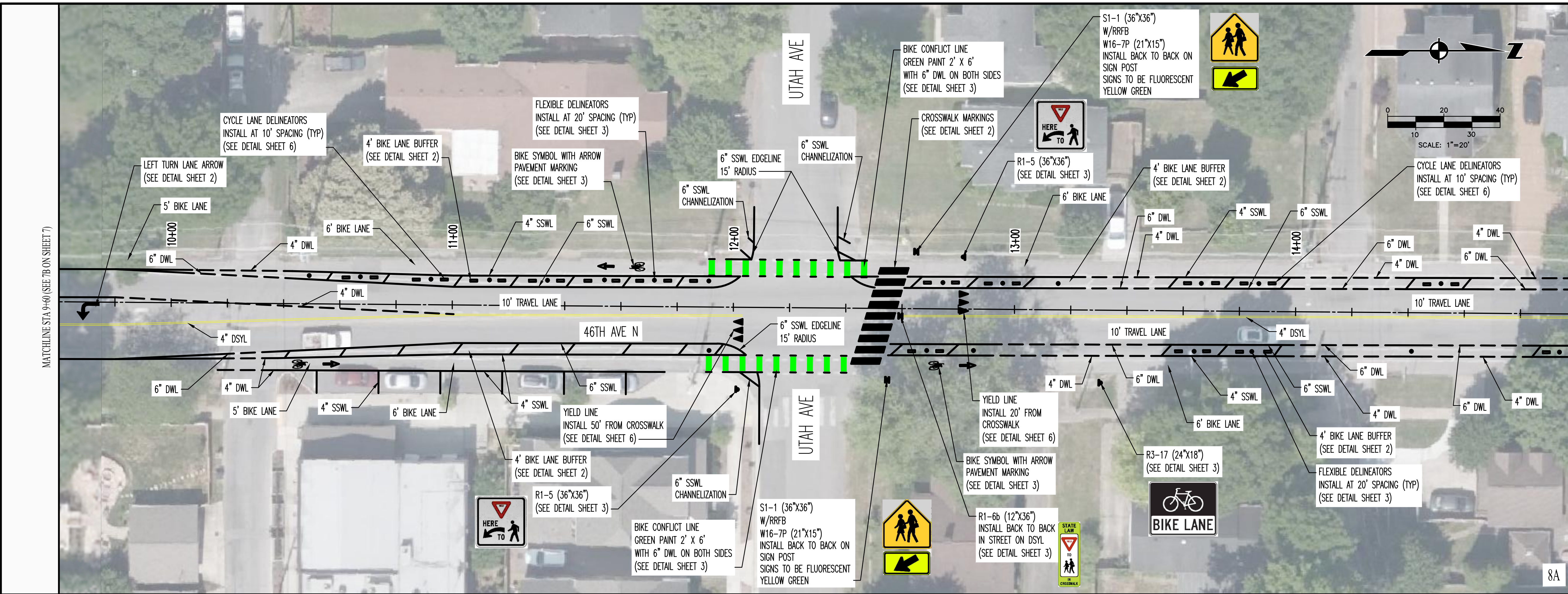


PROJECT NUMBER: NDT418
DATE: 9-2024 SCALE:
DRAWN BY: JWC DESIGNED BY: ZDB

SHEET TITLE:
TYPICAL DETAILS

SHEET 6 OF 10

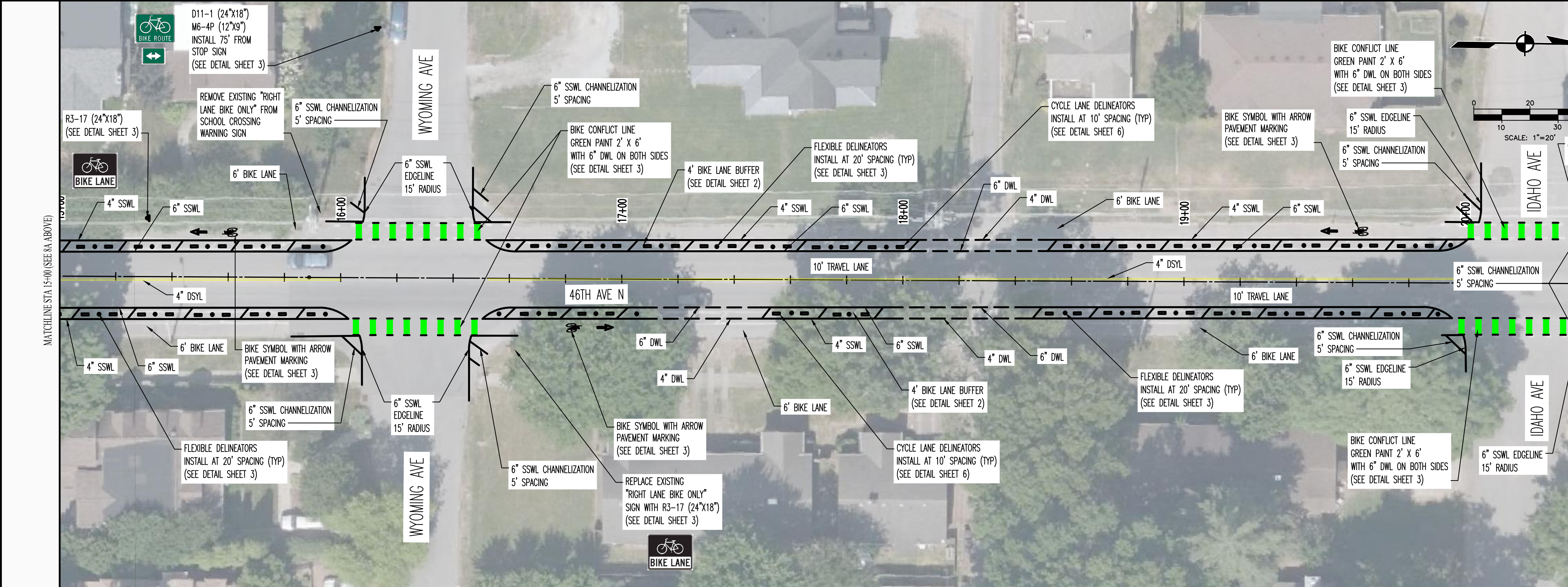
C:\ATHAVEN\PROJ_024_019\DESIGN\046TH_N_SITELING_9/18/2024 1:10 PM_ZACH BARNETTE



MATCHLINE STA 9+00 (SEE 7B ON SHEET 7)

MATCHLINE STA 15+00 (SEE 8B BELOW)

8A



MATCHLINE STA 15+00 (SEE 8A ABOVE)

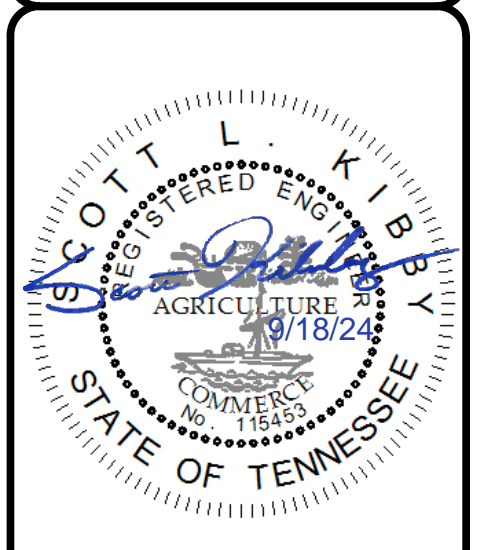
MATCHLINE STA 20+00 (SEE 9A ON SHEET 9)

8B



REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
AND DAVIDSON COUNTY, TENNESSEE
46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
FROM MURPHY ROAD TO CHARLOTTE AVENUE



PROJECT NUMBER: NDT418
DATE: 9-2024 SCALE: 1"=20'
DRAWN BY: JWC DESIGNED BY: ZDB

SHEET TITLE:
PROPOSED LAYOUT
SHEET 8 OF 10

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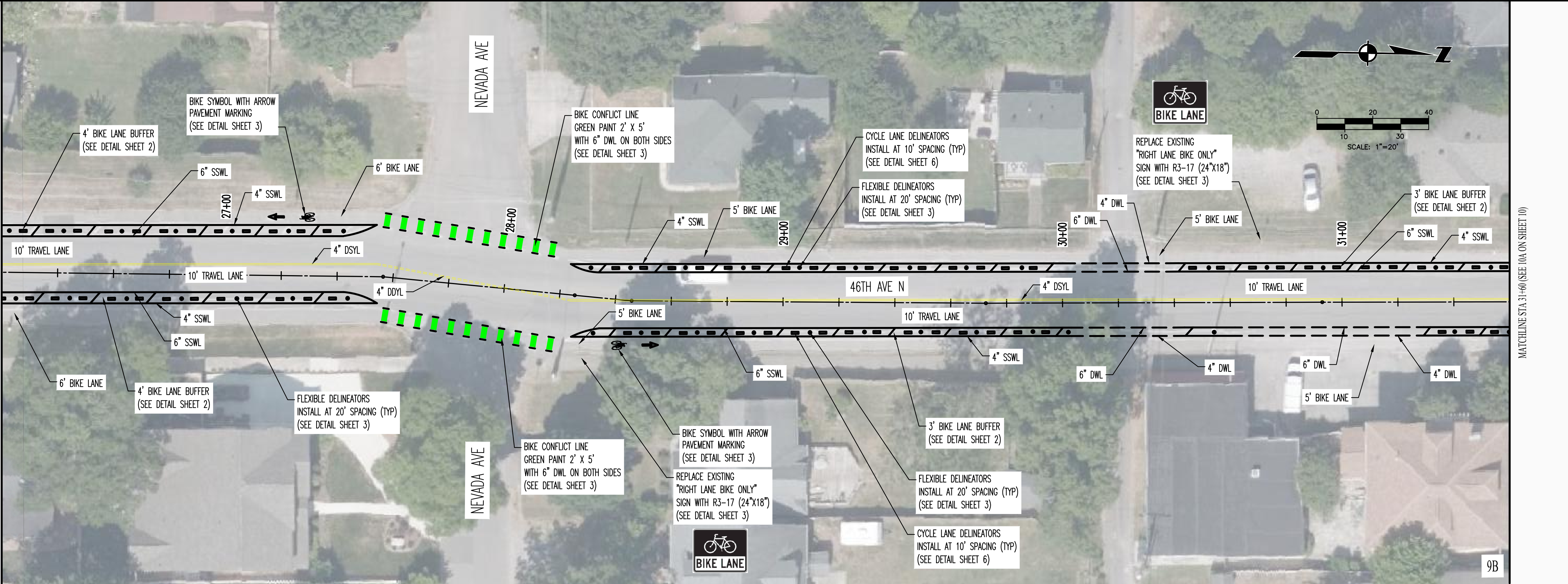
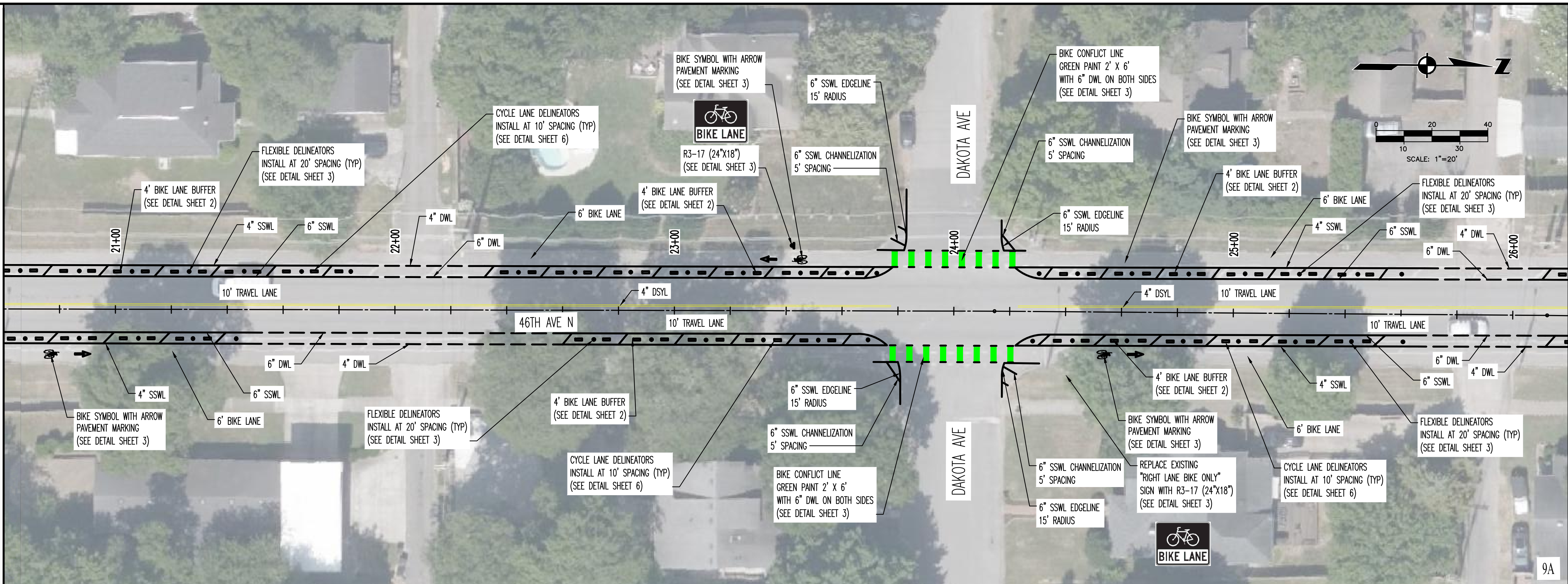
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MATCHLINE STA. 20+00 (SEE SB ON SHEET 8)

MATCHLINE STA. 26+20 (SEE 9A ABOVE)

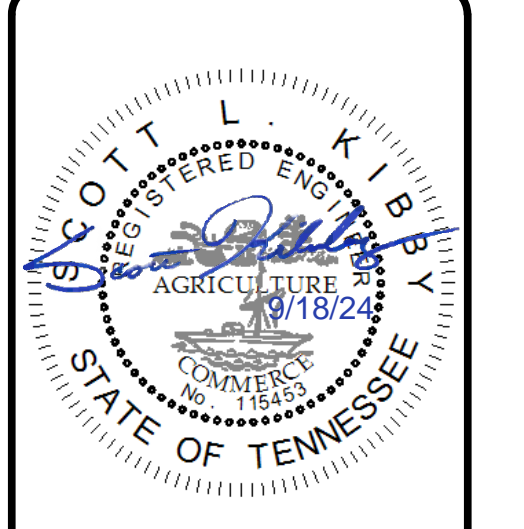
MATCHLINE STA. 26+20 (SEE 9B BELOW)

MATCHLINE STA. 31+60 (SEE 10A ON SHEET 10)



REV	DATE	REVISION DESCRIPTION

METROPOLITAN GOVERNMENT OF NASHVILLE
 AND DAVIDSON COUNTY, TENNESSEE
 46TH AVENUE NORTH BIKEWAY IMPROVEMENTS
 FROM MURPHY ROAD TO CHARLOTTE AVENUE



PROJECT NUMBER: NDT418
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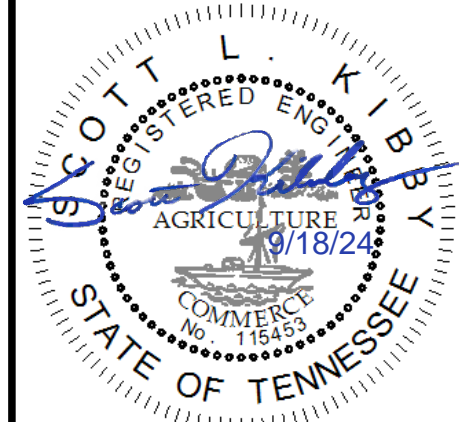
SHEET TITLE:
PROPOSED LAYOUT
 SHEET 9 OF 10



LDA ENGINEERING

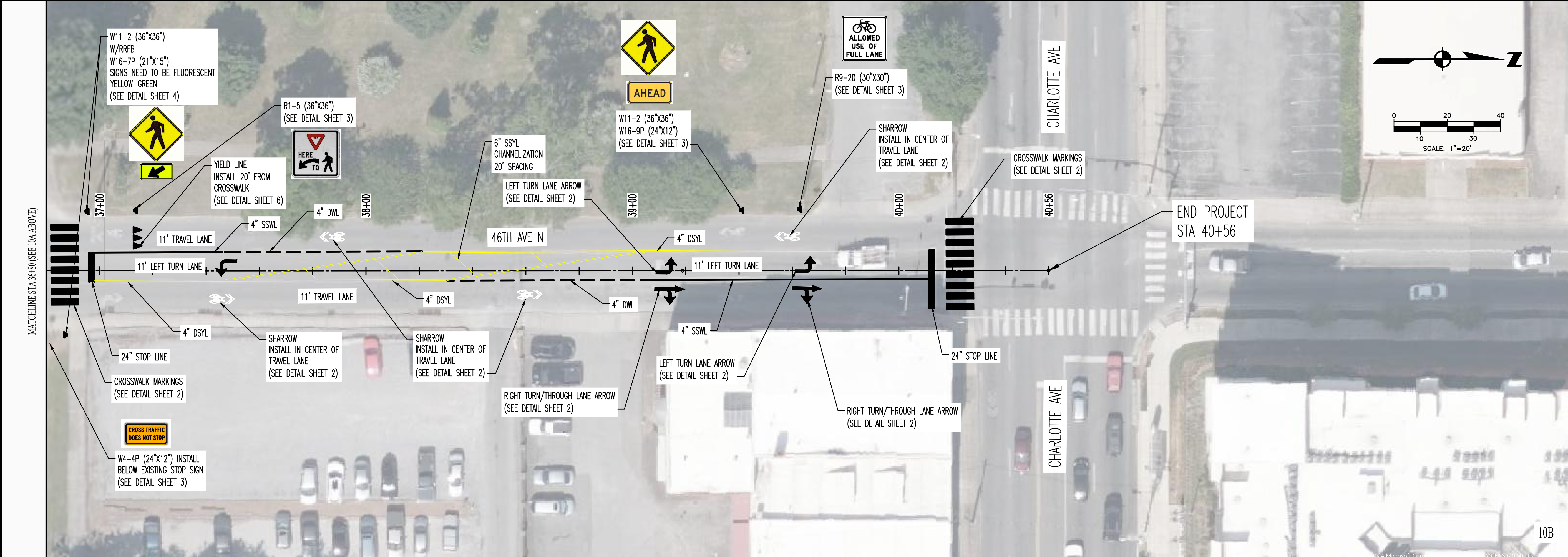
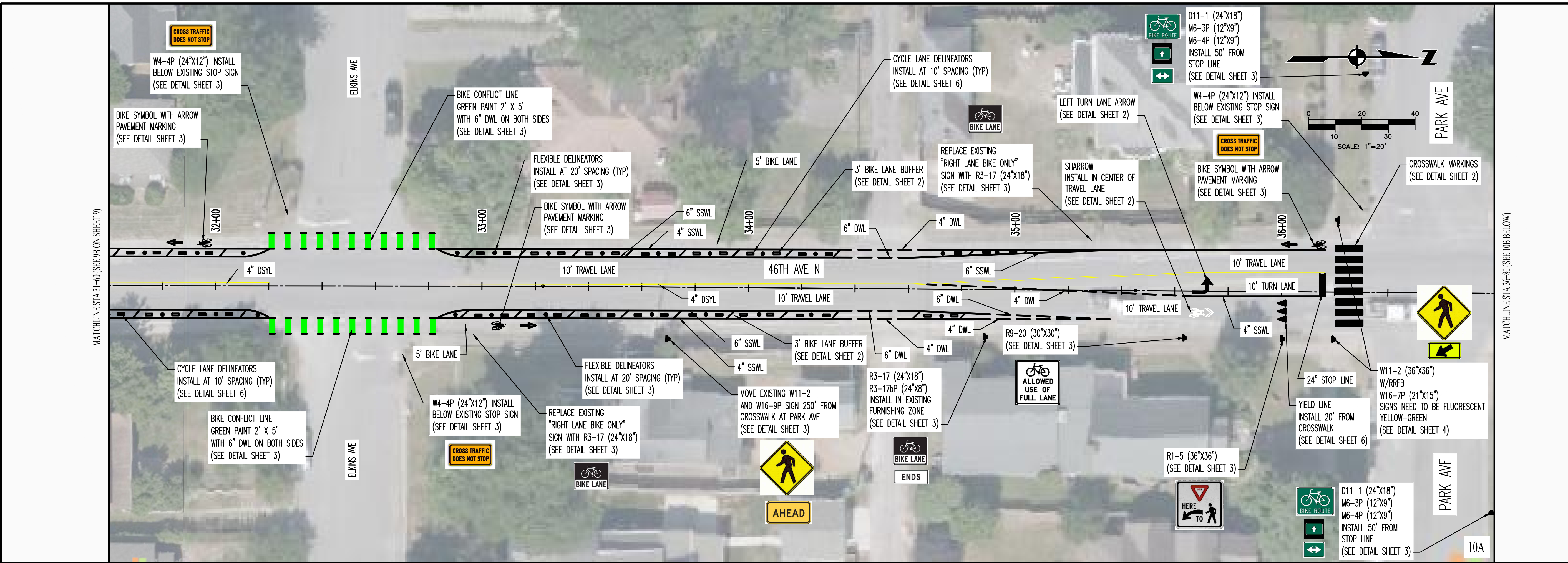
REV	DATE	REVISION DESCRIPTION

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PROJECT NUMBER: NDT418
 DATE: 9-2024 SCALE: 1"=20'
 DRAWN BY: JWC DESIGNED BY: ZDB

SHEET TITLE:
PROPOSED LAYOUT
 SHEET 10 OF 10



C:\46thAveN_Prop_Lay_024-0103\DESIGN\CAD\46TH ST N_SITELING_9/17/2024_4:32 PM_JERRY CLARK