DISTRICT OF COLUMBIA
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

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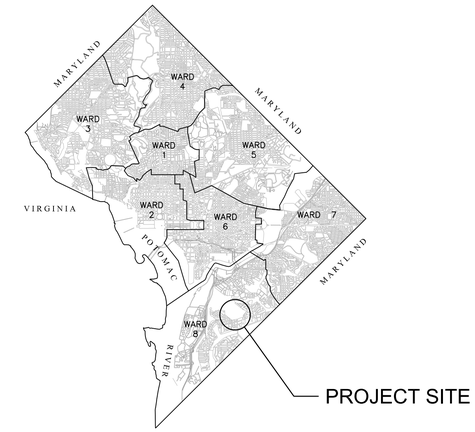
2. PROJECT NOTES & DETAILS
3. PAVEMENT MARKING QUANTITIES
4. SIGN QUANTITIES AND DETAILS
5-9. SIGNING AND STRIPING LAYOUT PLANS

District Department of Transportation

PLANS OF PROPOSED

WHEELER RD SE

FROM MISSISSIPPI AVENUE SE TO ALABAMA AVENUE SE



CITY MAP

ROAD DIET AND SAFE ROUTE TO SCHOOL IMPROVEMENTS
FINAL PLANS

LENGTH OF PROJECT = 1,765 FEET = 0.33 MILES

FINAL PLANS
February 2022

N

200' 0 200' 400'
SCALE: 1" = 200'

vhb

NO	DESCRIPTION	NAME	DATE
3	FINAL (100%) DESIGN PLANS	BLT/AJC	2022–02–09
2	PRELIMINARY (60%) DESIGN PLANS	BLT/AJC	2022–01–20
1	CONCEPTUAL (30%) DESIGN PLANS	BLT/AJC	2021–11–18

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

TITLE SHEET

PROJECT ENG. DAG
DESIGNED BY BLT
CHECKED BY DLL
DRAWN BY BLT/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022

FILE

SHEET 1 OF 9

PROJECT NOTES:

GENERAL NOTES:

1. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES (GOLD BOOK) DATED 2013, ISSUED BY THE DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE DESIGN & ENGINEERING MANUAL (DEM) DATED JANUARY 2019.

3. PER AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), ALL SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.

PAVEMENT MARKING & SIGNING NOTES:

4. ALL STRIPING AND SIGN WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES (GOLD BOOK) DATED 2013, DESIGN & ENGINEERING MANUAL (DEM) DATED JANUARY 2019, AND THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD) REQUIREMENTS.

5. PAVEMENT MARKINGS ON ASPHALT PAVEMENT SHALL BE THERMOPLASTIC TYPE.

6. ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED BY A METHOD APPROVED BY DDOT.

7. NOT ALL DRIVEWAYS HAVE BEEN LOCATED FOR THIS STRIPING AND SIGNAGE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DRIVEWAY LOCATIONS PRIOR TO BEGINNING STRIPING WORK.

8. NOT ALL FIRE HYDRANTS HAVE BEEN LOCATED FOR THIS STRIPING PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING FIRE HYDRANT LOCATIONS AND STRIPING NO PARKING ZONES FOR 10 FEET ON EITHER SIDE OF THE FIRE HYDRANTS WHERE THEY ARE LOCATED ALONG A PARKING LANE. SEE FIRE HYDRANT STRIPING DETAIL FOR TYPICAL FIRE HYDRANT TREATMENT.

9. IF A CROSSWALK IS PRESENT, PARKING SPACES SHALL BE STRIPED WITH A MINIMUM CLEARANCE OF 25 FEET FROM THE CROSSWALK (THIS IS THE TYPICAL TREATMENT PER THE DDOT DEM).

10. THE CONTRACTOR SHALL COORDINATE WITH THE DDOT FIELD OPERATIONS DIVISION (FOD), SIGNS AND MARKING DIVISION, REGARDING THE INTENSITY AND REFLECTIVITY OF SIGNS TO BE INSTALLED. THE CONTACT FOR THIS WORK IS OGECHI ELEKWACHI, PHONE NUMBER: 202–369–7483.

11. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT.

12. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.

13. ALL TRAFFIC SIGNS SHALL BE MOUNTED ON A STANDARD DDOT BREAKAWAY TYPE METAL SIGN POST.

14. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.

15. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.

16. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.

17. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO DDOT FOR APPROVAL PRIOR TO INSTALLATION.

18. THE CONTRACTOR SHALL FOLLOW MUTCD AND DDOT STANDARD DETAILS AND PROCEDURES FOR MAINTENANCE OF TRAFFIC FOR STRIPING AND CONCRETE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A PROPER WORK ZONE UNTIL ALL WORK IS COMPLETED.

CONSTRUCTION NOTES:

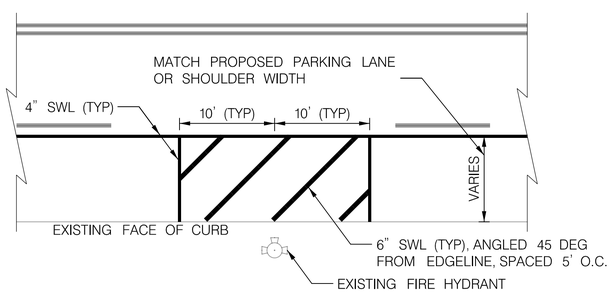
19. THE CONTRACTOR SHALL CONSTRUCT THE CONCRETE MEDIANS AND CURB EXTENSION OPEN CHANNEL CROSSING TO THE DIMENSIONS SHOWN ON THE DESIGN PLANS AND IN ACCORDANCE TO DDOT STANDARD DWG. NO. 506.02.

20. WHERE MODIFICATIONS TO THE CONCRETE REFUGE ISLANDS AND CURB EXTENSION OPEN CHANNEL CROSSING ARE DEEMED NECESSARY BASED ON FIELD CONDITIONS, THE CONTRACTOR SHALL PROPOSE MODIFICATIONS AND RECEIVE APPROVAL FROM DDOT PRIOR TO BEGINNING THE WORK.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS, DDOT, AND LOCAL REQUIREMENTS.

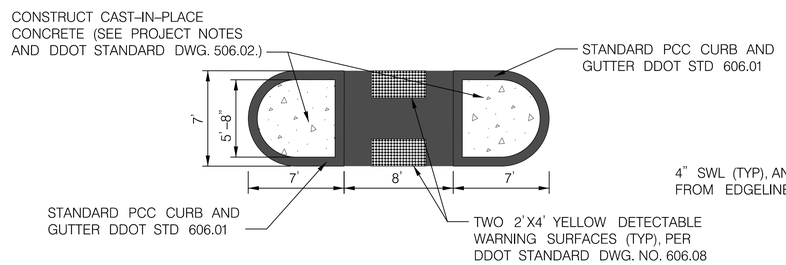
22. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

23. DESIGN DETAILS FOR A RECTANGULAR FLASHING RAPID BEACON (RRFB) AT THE CONCRETE MEDIAN ADJACENT TO KIPP–SOMERSET DC PREP SCHOOL WILL BE PROVIDED BY DDOT.



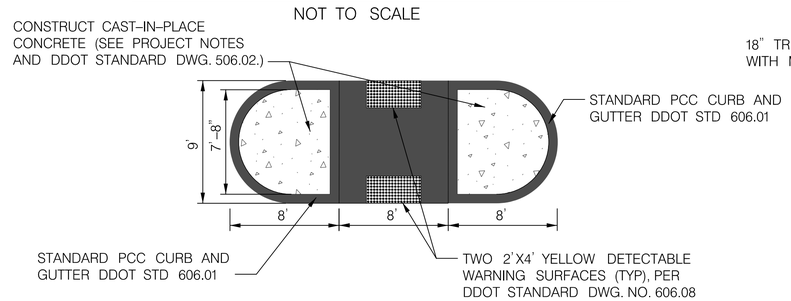
FIRE HYDRANT STRIPING DETAIL

NOT TO SCALE



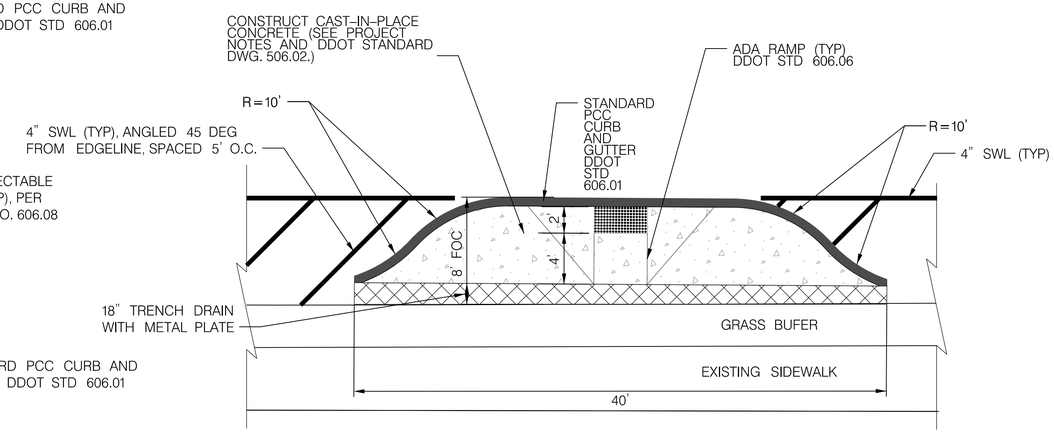
7'–WIDE MEDIAN REFUGE ISLAND DETAIL

NOT TO SCALE



9'–WIDE MEDIAN REFUGE ISLAND DETAIL

NOT TO SCALE



CURB EXTENSION OPEN CHANNEL CROSSING DETAIL

NOT TO SCALE

NOTE:

1. CONTRACTOR TO TAKE CARE WHEN INSTALLING BUFFER AREA TO AVOID DAMAGING ANY TREE ROOTS.

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

PROJECT NOTES & DETAILS

PROJECT ENG. DAG
DESIGNED BY BLT
CHECKED BY DLL
DRAWN BY BLT/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022
FILE
SHEET 2 OF 9

REVISIONS

PAVEMENT MARKING QUANTITIES

ITEM	QUANTITY	UNIT
THERMOPLASTIC PAVEMENT MARKINGS - STRIPING		
4" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID	2770	LF
4" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (ANGLED 45 DEG, NO PARKING ZONE)	1600	LF
4" WHITE THERMOPLASTIC PAVEMENT MARKING - DASHED (2' STRIPE, 4' SKIP)*	130	LF
4" WHITE THERMOPLASTIC PAVEMENT MARKING - DASHED (3' STRIPE, 9' SKIP)*	80	LF
4" DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING - SOLID	2600	LF
4" DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING - DASHED (2' STRIPE, 4' SKIP)*	40	LF
6" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID	50	LF
12" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (STOP BAR)	20	LF
12" YELLOW THERMOPLASTIC PAVEMENT MARKING - SOLID (ANGLED 45 DEG, MEDIAN)	700	LF
24" WHITE THERMOPLASTIC PAVEMENT MARKING - SOLID (CROSSWALK MARKING)	100	LF
WHITE THERMOPLASTIC PAVEMENT MARKING - SYMBOLS		
"SCHOOL" TEXT SYMBOL	4	EA
"ONLY" TEXT SYMBOL	1	EA
MERGE-LANE ARROW SYMBOL	2	EA
LEFT-TURN ONLY ARROW SYMBOL	4	EA
BUFFER MATERIALS		
FLEXIBLE CHANNELIZER POST	270	EA

* Quantities for dashed line types represent length of actual striping (excludes skip length)

Note: Striping and flexible channelizer posts quantities are approximate. Field measurements will be used for final billing/accounting purposes.

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

PAVEMENT MARKING QUANTITIES

PROJECT ENG. DAG
DESIGNED BY BLT
CHECKED BY DLL
DRAWN BY BLT/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022
FILE
SHEET 3 OF 9

REVISIONS

SIGNING QUANTITIES

Sign Designation	MUTCD/DDOT	Sign Type	Use	Sign or Plaque Description	Quantity	Panel Dimensions (IN)		Panel Area	Total Area (SF)
						W	H		
R1-6A	DDOT	Regulatory	Motor Vehicle	Stop for Pedestrians within Crosswalk	4	12	36	3.00	12.00
R3-8 (MOD)	MUTCD	Regulatory	Motor Vehicle	Lane Assignment	1	30	30	6.25	6.25
R7-1	DDOT	Regulatory	Motor Vehicle	No Parking Anytime	12	12	18	1.50	18.00
R7-1 (L)	DDOT	Regulatory	Motor Vehicle	No Parking Anytime (Left Arrow)	7	12	18	1.50	10.50
R7-1 (R)	DDOT	Regulatory	Motor Vehicle	No Parking Anytime (Right Arrow)	7	12	18	1.50	10.50
R7-7A (L)	DDOT	Regulatory	Motor Vehicle	No Parking Transit (Left Arrow)	7	12	18	1.50	10.50
R7-7A (R)	DDOT	Regulatory	Motor Vehicle	No Parking Transit (Right Arrow)	6	12	18	1.50	9.00
R10-11	MUTCD	Regulatory	Motor Vehicle	No Turn on Red Arrow	1	24	30	5.00	5.00
R10-15aL	MUTCD/DDOT	Regulatory	Motor Vehicle	Turning Vehicles Stop for Peds	2	30	30	6.25	12.50
CUSTOM-1	MUTCD/DDOT	Regulatory	Motor Vehicle	No Parking School PUDO	1	12	18	1.50	1.50
W4-2 (R)	MUTCD	Warning	Motor Vehicle	Lane Ends Warning	1	30	30	6.25	6.25
W9-2 (R)	MUTCD	Warning	Motor Vehicle	Lane Ends Merge Right Warning	1	30	30	6.25	6.25
W11-2	MUTCD	Warning	Motor Vehicle	Pedestrian Crossing Warning	3	30	30	6.25	18.75
W11-2 LED	MUTCD	Warning	Motor Vehicle	Pedestrian Crossing Warning with LED	2	30	30	6.25	12.50
W16-7p (L)	MUTCD	Warning	Motor Vehicle	Arrow Plaque (Left)	1	24	12	2.00	2.00
W16-7p (R)	MUTCD	Warning	Motor Vehicle	Arrow Plaque (Right)	4	24	12	2.00	8.00
								Total:	**149.50**

SIGNING DETAILS

12" W x 36" H

R1-6A

N.T.S.

30" W x 30" H

R3-8 (MOD)

N.T.S.

12" W x 18" H

R7-1

N.T.S.

12" W x 18" H

R7-1 (L)

N.T.S.

12" W x 18" H

R7-1 (R)

N.T.S.

12" W x 18" H

R7-7A (L)

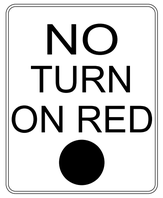
N.T.S.

12" W x 18" H

R7-7A (R)

N.T.S.

24" W x 30" H



R10-11

N.T.S.

30" W x 30" H

R10-15aL

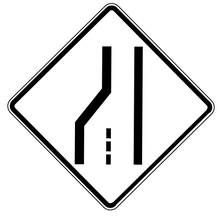
N.T.S.

12" W x 18" H

CUSTOM-1

N.T.S.

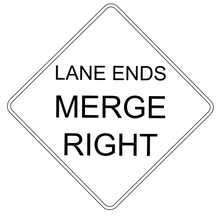
30" W x 30" H



W4-2 (R)

N.T.S.

30" W x 30" H



W9-2 (R)

N.T.S.

30" W x 30" H

W11-2

N.T.S.

30" W x 30" H

W11-2 LED

N.T.S.

24" W x 12" H

W16-7p (L)

N.T.S.

24" W x 12" H

W16-7p (R)

N.T.S.

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

WHEELER RD SE
(LOCATION: MISSISSIPPI AVE TO
ALABAMA AVE SE)

SIGNING QUANTITIES
AND DETAILS

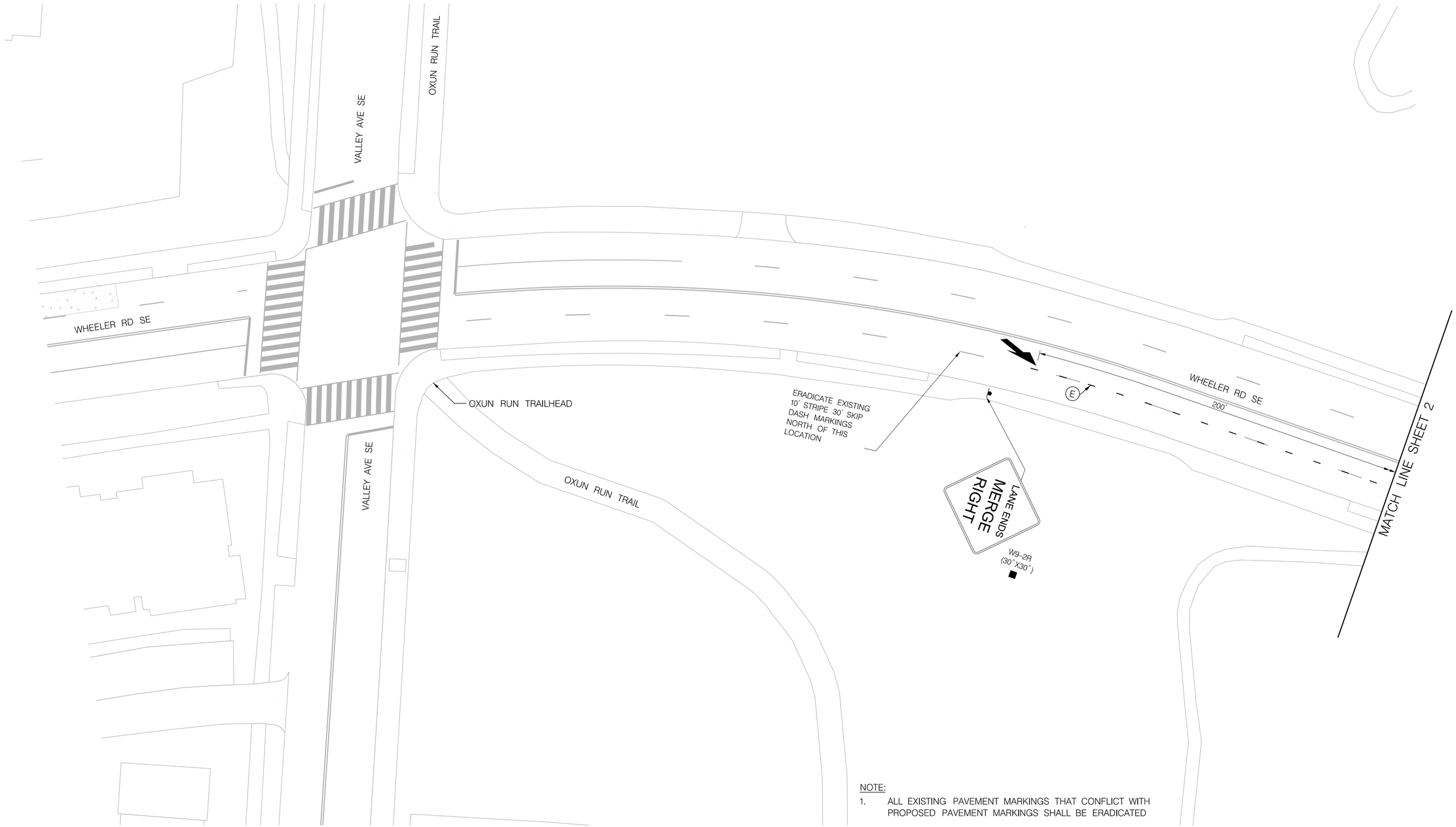
PROJECT ENG. DAG
DESIGNED BY BLT
CHECKED BY DLL
DRAWN BY BLT/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022

FILE

SHEET 4 OF 9



NOTE:

1. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED

SIGNING & PAVEMENT MARKINGS LEGEND

- (A) 4" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 4" DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 4" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS, ANGLED 45 DEGREES TO EDGE LINE, SPACED 5' O.C.
- (D) 4" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (2' STRIPE, 4' SKIP)
- (E) 4" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' STRIPE, 9' SKIP)
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- (G) 12" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS, ANGLED 45 DEGREES TO EDGE LINE, SPACED 5' O.C.
- (H) 12" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (I) HIGH VISIBILITY CROSSWALK MARKING (6" SOLID WHITE THERMOPLASTIC EDGE LINE WITH 24" SOLID WHITE THERMOPLASTIC TRANSVERSE PAVEMENT MARKINGS, TYP)
- SCHOOL — SCHOOL THERMOPLASTIC PAVEMENT MARKING
- ONLY — LANE ASSIGNMENT THERMOPLASTIC MARKINGS
- X — EXISTING SIGN TO BE REMOVED
- ○ — EXISTING SIGN TO BE RELOCATED
- △ — EXISTING SIGN RELOCATED TO THE NEW POST
- □ — NEW SIGN TO BE INSTALLED ON EXISTING POST OR EX. SIGNAL/LIGHT POLE
- ■ — NEW SIGN TO BE INSTALLED ON NEW POST
- ⊙ — NEW FLEXPOST TO BE INSTALLED

N

20' 0 20' 40'
SCALE: 1" = 20'

vhb

NO	DESCRIPTION	NAME	DATE

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

WHEELER RD SE(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

SIGNING AND STRIPING LAYOUT PLANS (SHEET 1 OF 5)

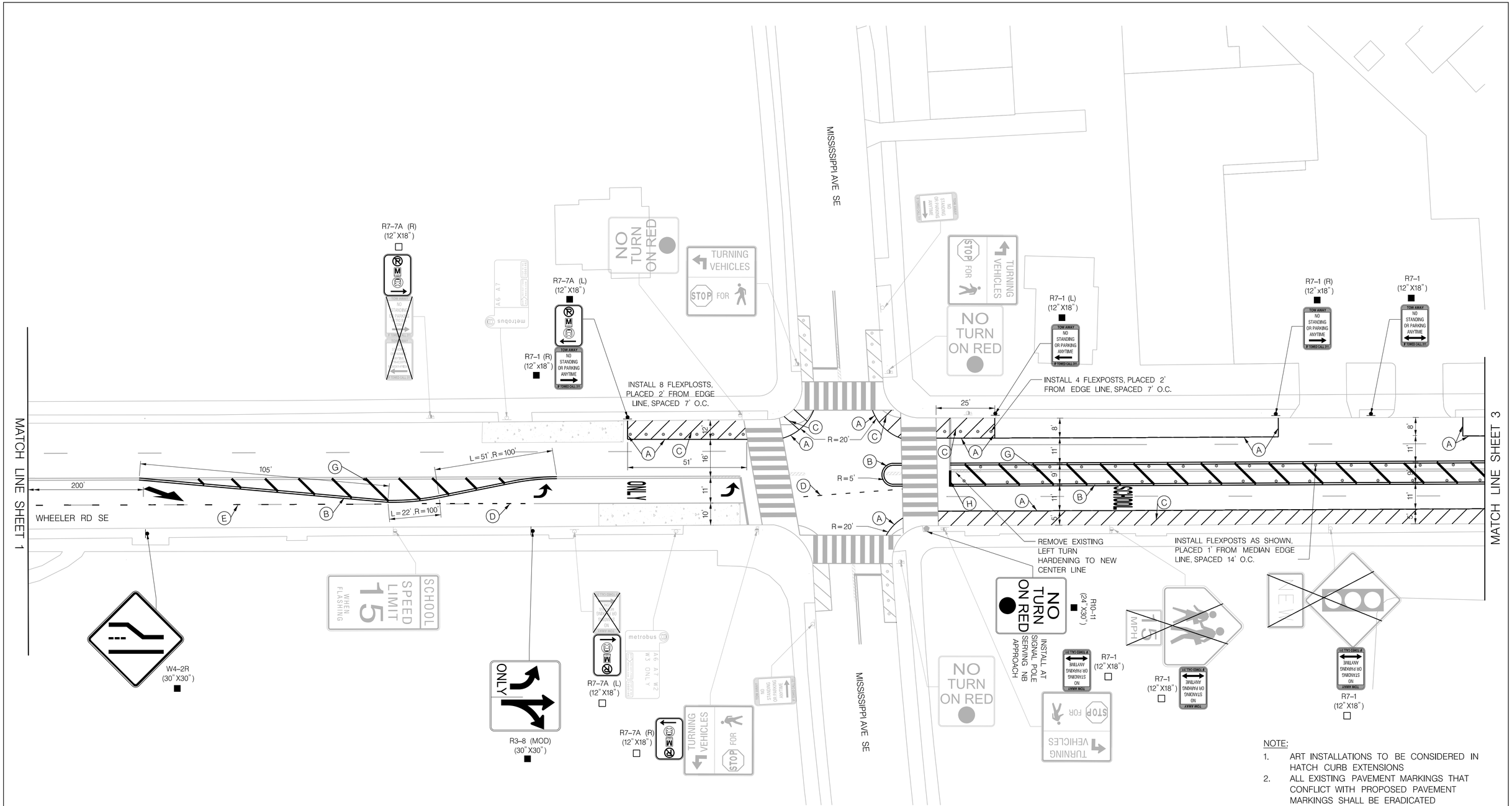
PROJECT ENG. DAG
DESIGNED BY AJC
CHECKED BY BLT
DRAWN BY BLT/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022

FILE

SHEET 5 OF 9



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N

20' 0 20' 40'
SCALE: 1" = 20'

vhb

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PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

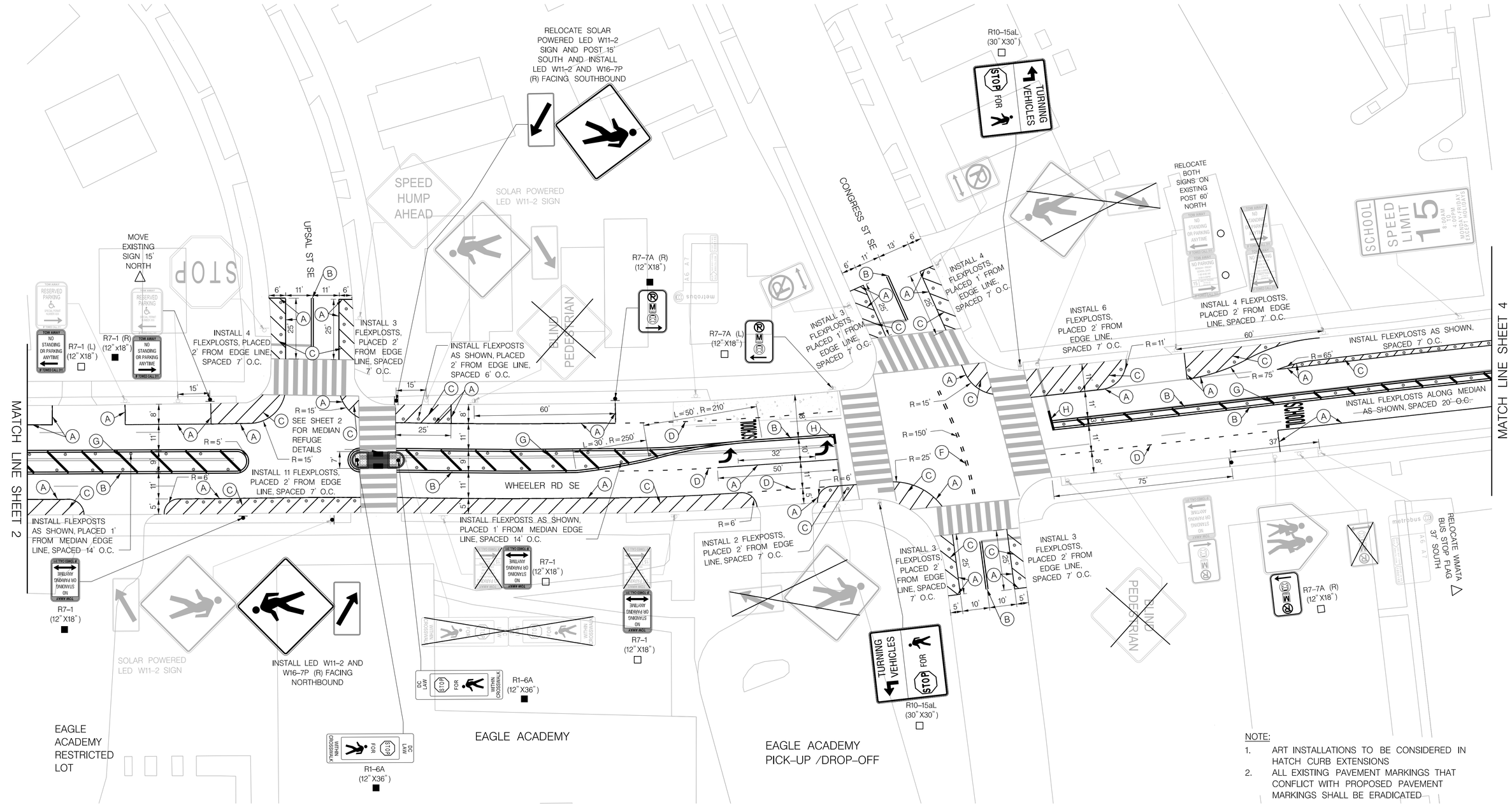
WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

SIGNING AND STRIPING
LAYOUT PLANS (SHEET 2 OF 5)

PROJECT ENG. DAG
DESIGNED BY TLB/AJC
CHECKED BY BLT
DRAWN BY TLB/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022
FILE txtr_wheeler_rd_se.dgn
SHEET 6 OF 9



NOTE:

1. ART INSTALLATIONS TO BE CONSIDERED IN HATCH CURB EXTENSIONS
2. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED

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SCALE: 1" = 20'

vhb

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REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

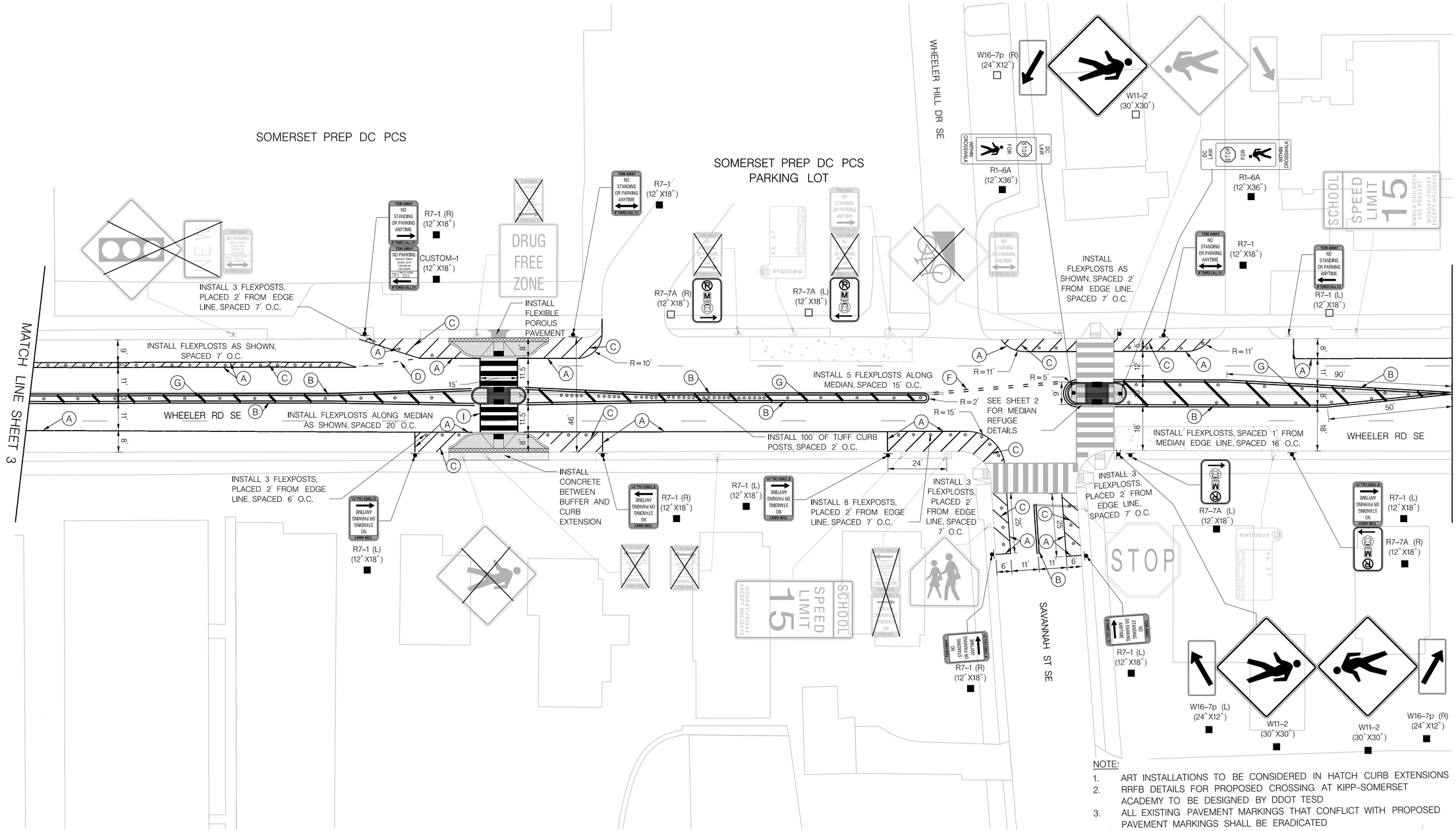
WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

SIGNING AND STRIPING
LAYOUT PLANS (SHEET 3 OF 5)

PROJECT ENG. DAG
DESIGNED BY TLB/AJC
CHECKED BY BLT
DRAWN BY TLB/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022
FILE txdr_wheeler_rd_se.dgn
SHEET 7 OF 9



NOTE:

1. ART INSTALLATIONS TO BE CONSIDERED IN HATCH CURB EXTENSIONS
2. RRFB DETAILS FOR PROPOSED CROSSING AT KIPP-SOMERSET ACADEMY TO BE DESIGNED BY DDOT TESD
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED

SIGNING & PAVEMENT MARKINGS LEGEND

- (A) 4" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 4" DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 4" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS, ANGLED 45 DEGREES TO EDGE LINE, SPACED 5' O.C.
- (D) 4" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (2' STRIPE, 4' SKIP)
- (E) 4" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' STRIPE, 9' SKIP)
- (F) 4" DOUBLE DASHED YELLOW THERMOPLASTIC PAVEMENT MARKINGS (2' STRIPE, 4' SKIP)
- (G) 12" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS, ANGLED 45 DEGREES TO EDGE LINE, SPACED 5' O.C.
- (H) 12" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (I) HIGH VISIBILITY CROSSWALK MARKING (6" SOLID WHITE THERMOPLASTIC EDGE LINE WITH 24" SOLID WHITE THERMOPLASTIC TRANSVERSE PAVEMENT MARKINGS, TYP)
- SCHOOL — SCHOOL THERMOPLASTIC PAVEMENT MARKING
- ONLY — LANE ASSIGNMENT THERMOPLASTIC MARKINGS
- X — EXISTING SIGN TO BE REMOVED
- ○ — EXISTING SIGN TO BE RELOCATED
- △ — EXISTING SIGN RELOCATED TO THE NEW POST
- □ — NEW SIGN TO BE INSTALLED ON EXISTING POST OR EX. SIGNAL/LIGHT POLE
- ■ — NEW SIGN TO BE INSTALLED ON NEW POST
- ⊙ — NEW FLEXPOST TO BE INSTALLED

N

20' 0 20' 40'
SCALE: 1" = 20'

vhb

NO	DESCRIPTION	NAME	DATE

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
PLANNING AND SUSTAINABILITY DIVISION
ACTIVE TRANSPORTATION PROGRAM

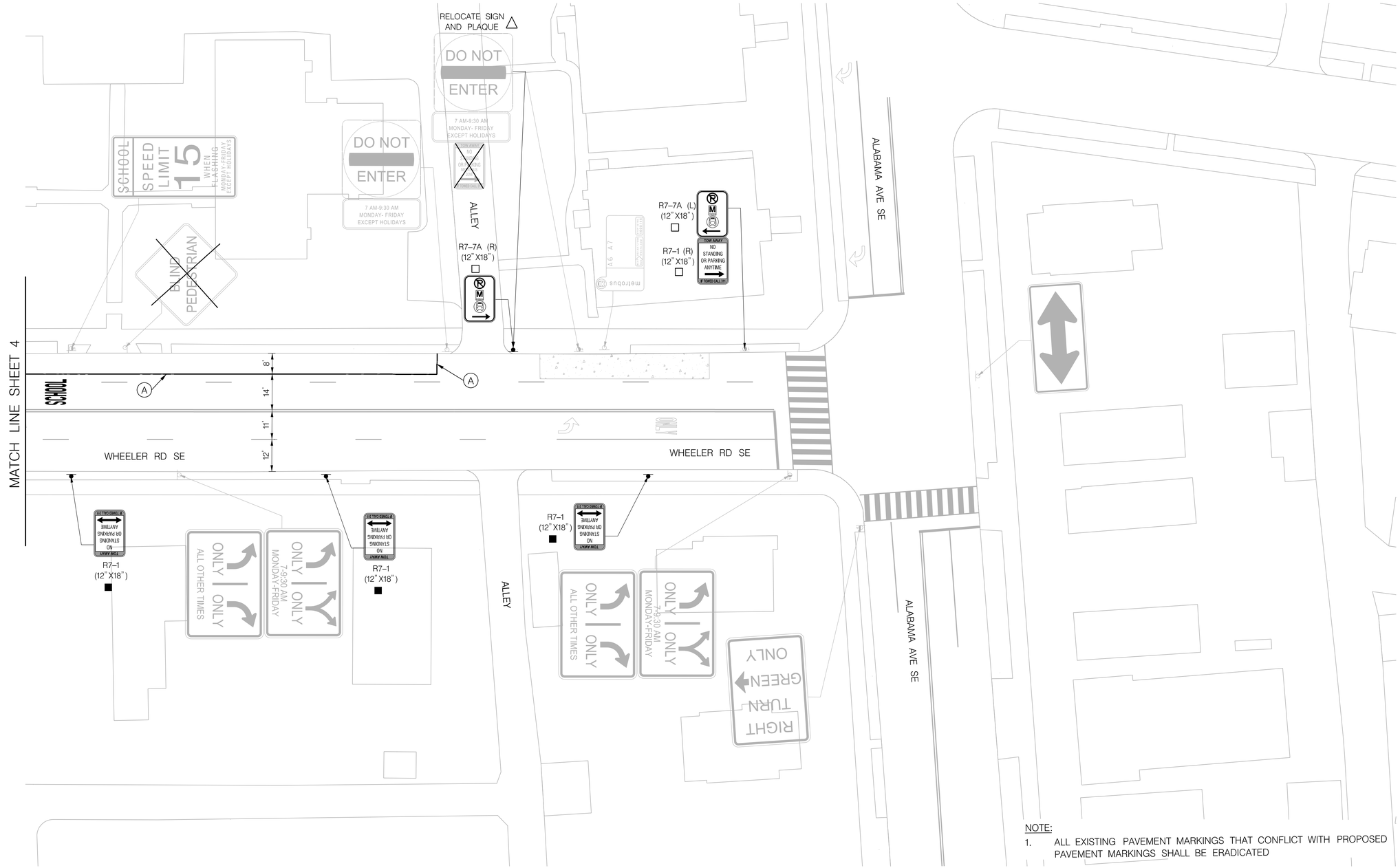
WHEELER RD SE
(LOCATION: MISSISSIPPI AVE SE TO ALABAMA AVE SE)

SIGNING AND STRIPING
LAYOUT PLANS (SHEET 4 OF 5)

PROJECT ENG. DAG
DESIGNED BY TLB/AJC
CHECKED BY BLT
DRAWN BY TLB/AJC
PROJECT MGR. DLL

DIVISION CHIEF

DATE FEBRUARY 2022
FILE bdr_wheeler_rd_se.dgn
SHEET 8 OF 9



NOTE:

1. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED

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SIGNING AND STRIPING
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SHEET 9 OF 9