

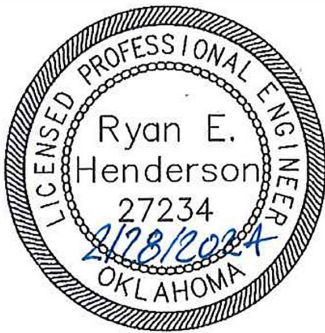
**THE CITY OF OKLAHOMA CITY APPROVAL  
SHEET**

**ProjectNo. PC-0688-1**

**Signage and Pavement Markings Plan**

**Oklahoma City, OK**

Prepared by:




**LEE ENGINEERING**

Lee Engineering, LLC  
1111 N. Lee Ave, Suite 236  
Oklahoma City, OK 73103  
Phone: (405) 384-5127

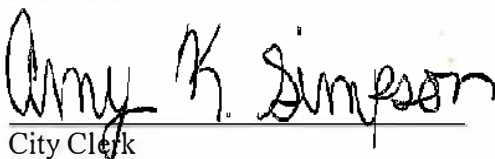
  
Architect/Engineer

Recommended for Approval


  
Debbie Miller, P.E.,  
Director Public Works/City Engineer

**APPROVED** by the Council of the City of Oklahoma City this 9TH day of  
APRIL, 2024.

**ATTEST:**

  
City Clerk



  
Mayor

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## **Project No. PC-0688-1**

### **Signage and Pavement Markings Plan on Streetcar Route Oklahoma City, OK**

#### ***EXECUTIVE SUMMARY***

##### ***Scope:***

Lee Engineering (LEE) was retained by the City of Oklahoma City (CITY) to provide plans and construction documents for PC-0688-1 Bike Friendly Streetcar Project, which includes a Tier 3 bicycle facility and updated lane configuration along Sheridan Avenue from EK Gaylord Boulevard to Lincoln Boulevard, and signage and striping improvements at various locations along the streetcar route. The City of Oklahoma City has been awarded a grant from the Association of Central Oklahoma Governments (ACOG) for construction, which will be administered by the Oklahoma Department of Transportation (ODOT). The project will be funded 100% from ACOG/ODOT through Coronavirus Response and Relief Supplemental Appropriations Act (CRRSAA) and Surface Transportation Block Grant - Urbanized Area (STBG-UZA). The goal of the project is to improve traffic safety along the Oklahoma City Streetcar route where bicycle facilities are present.

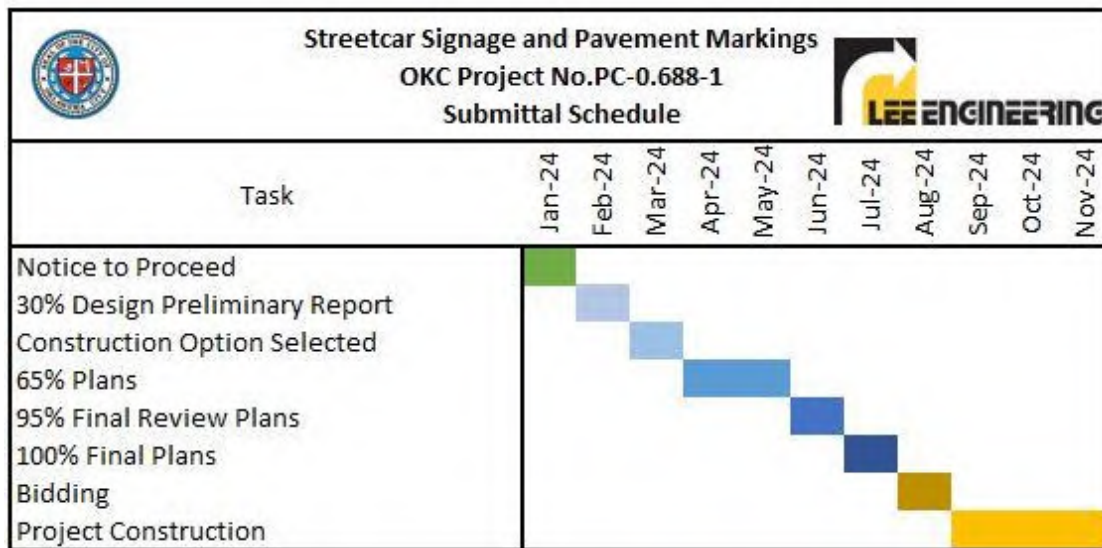
The main area of the project is along Sheridan Avenue from EK Gaylord Boulevard to Lincoln Boulevard where a Tier 3 bicycle facility will be provided, and the lane configuration will be updated. The existing configuration is predominately two westbound lanes and one eastbound lane that includes the streetcar. This will be updated to provide one westbound lane with bicycle sharrows and two eastbound lanes (left lane with bicycle sharrows and right lane with streetcar). All pavement markings along the Sheridan Avenue corridor will be replaced to improve the visibility. Other improvements included in the project are the installation of “Bicycles Cross Tracks with Care” signs where bicycle facilities are approaching streetcar track crossings to alert cyclists to cross the tracks carefully. Also included is the installation of R10-12 left turn on green signs at permissive left turn traffic signals and streetcar crossings, and a few “Watch for Streetcar” signs to alert vehicles of approaching streetcars.

##### ***Budget:***

Preliminary Cost Estimate                      \$209,200

Fixed Limit of Construction Budget   \$474,120

A combination of ACOG/ODOT funding will be used for construction. ODOT standards and specifications will be used for the proposed design.

**Schedule:****Decision Matrix:**

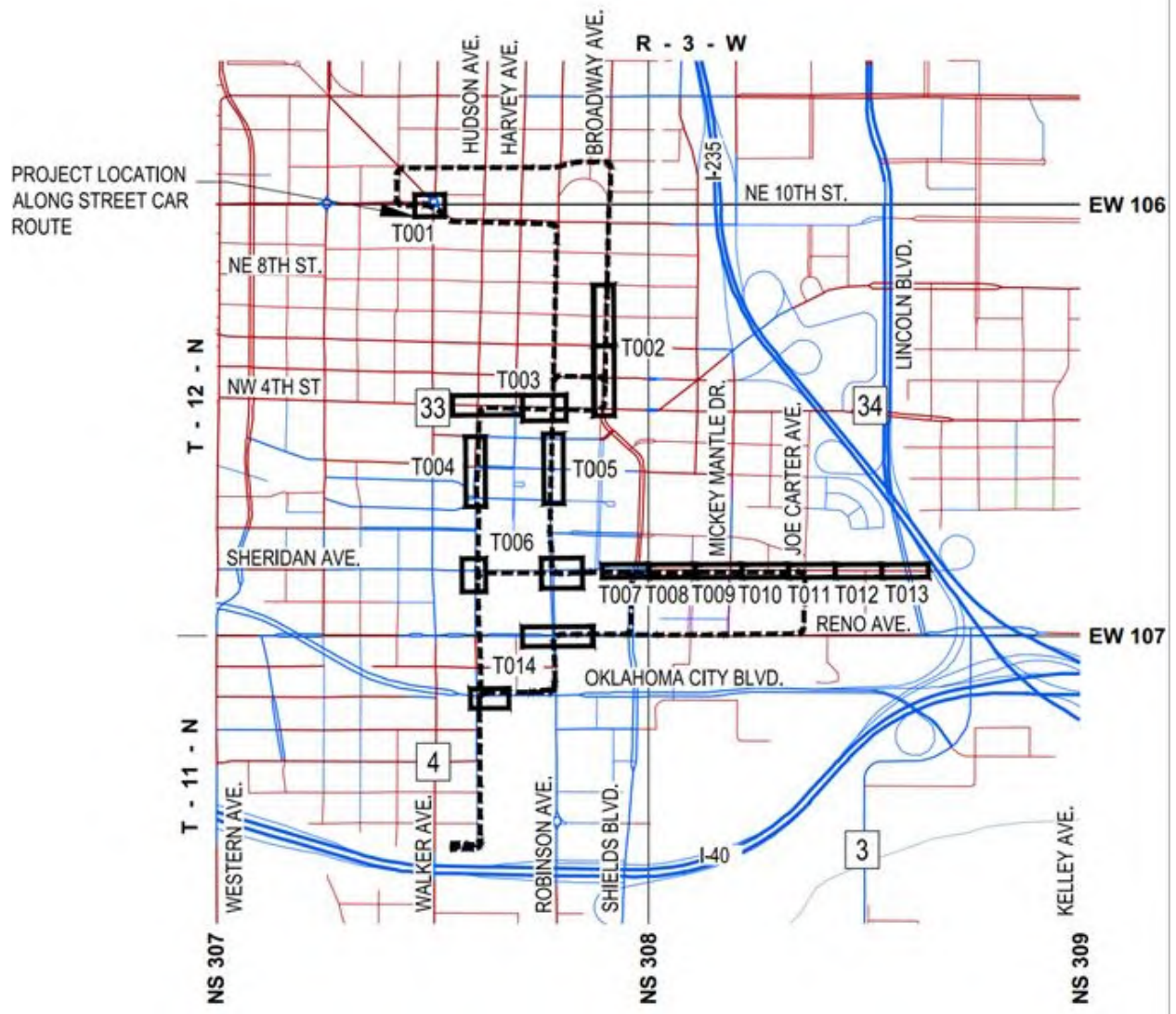
PC-0688-1-1	
Advantages	Disadvantages
✓ Construction cost fits within budget	✓ May not be long term congestion improvement
✓ Short construction schedule	✓ Does not offer highest level of bicycle facility along Sheridan Avenue
✓ Addition of marked bicycle route	✓ Does not provide a dedicated streetcar lane
✓ Improved multimodal safety	✓ Construction within streetcar area
✓ Very minimal ground disturbance	

**Recommendation:**

LEE recommends that the proposed improvements for the Bike Friendly Streetcar Project be constructed which includes:

- Sheridan Ave Tier 3 bicycle facility and lane re-configuration from EK Gaylord Blvd to Lincoln Blvd
- “WATCH FOR STREETCAR” signs at three locations
- “BICYCLES CROSS TRACKS WITH CARE” signs at streetcar and bicycle crossings
- R10-12 Left Turn on Green signs at permissive left turn lanes that cross streetcar tracks

## PROJECT LOCATION MAP



**Figure 1: Approximate Project Limits**

## **PROJECT BACKGROUND**

### ***Project Scope:***

The City of Oklahoma City previously contracted with Lee Engineering (LEE) for engineering services under the On-Call Contract MC-0614 to evaluate traffic improvements, including a dedicated streetcar lane and implementation of bicycle facilities, along Sheridan Avenue from EK Gaylord Boulevard to Joe Carter Avenue. The Final Preliminary Report submitted in December 2022 recommended a dedicated streetcar lane along Sheridan Avenue eastbound and Tier 3 bicycle facilities (sharrows). However, the engineering design services were later amended (MC-0614-A – Work Order No. 1) upon determining that a dedicated streetcar lane would not be implemented, but an updated striping and signing design to provide a Tier 3 bike facility along Sheridan Avenue and updated lane configuration would be implemented. Therefore, an updated Preliminary Engineering Report to verify the final scope of the project has been requested.

LEE was requested by the City of Oklahoma City (CITY) to provide plans and construction documents for PC-0688-1 Bike Friendly Streetcar Project, which includes a Tier 3 bicycle facility and updated lane configuration along Sheridan Avenue from EK Gaylord Boulevard to Lincoln Boulevard, and signage and striping improvements at various locations along the streetcar route. The City of Oklahoma City has been awarded a grant from the Association of Central Oklahoma Governments (ACOG) for construction, which will be administered by the Oklahoma Department of Transportation (ODOT). The project will be funded 100% from ACOG/ODOT through Coronavirus Response and Relief Supplemental Appropriations Act (CRRSAA) and Surface Transportation Block Grant - Urbanized Area (STBG-UZA). The goal of the project is to improve traffic safety along the Oklahoma City Streetcar route where bicycle facilities are present.

### ***Existing Conditions:***

Sheridan Avenue is an east-west roadway. It is currently four-lanes undivided within the study area between EK Gaylord Boulevard and Oklahoma Avenue with a 25 miles per hour (MPH) posted speed limit. East of Oklahoma Avenue, Sheridan Avenue becomes a two-lane undivided roadway. A two-way left-turn lane (TWLTL) is provided between Mickey Mantle Drive and Joe Carter Avenue. It is designated as an Urban Collector from EK Gaylord Boulevard to Joe Carter Avenue according to the Functional Classification of the *Oklahoma Department of Transportation* (ODOT), Oklahoma City Downtown Street System. Additionally, the City of Oklahoma City's *planokc* document identifies Sheridan Avenue with "Storefront" street typology.

The Oklahoma City Streetcar provides service along Sheridan Avenue in the eastbound direction from west of EK Gaylord Boulevard to Joe Carter Avenue, see **Figure 2** for the Oklahoma City



Streetcar map. Two mid-block stops are provided along Sheridan Avenue within the project area, one located just east of the EK Gaylord Boulevard intersection, and one located west of the Mickey Mantle Drive intersection. Streetcar routes are typically served seven days a week with 15-minute headways. Both stops provide a shelter, bench, and digital display.

The existing lane configurations for the study area are provided in **Figure 3**.



**Figure 2: Existing Streetcar Map**

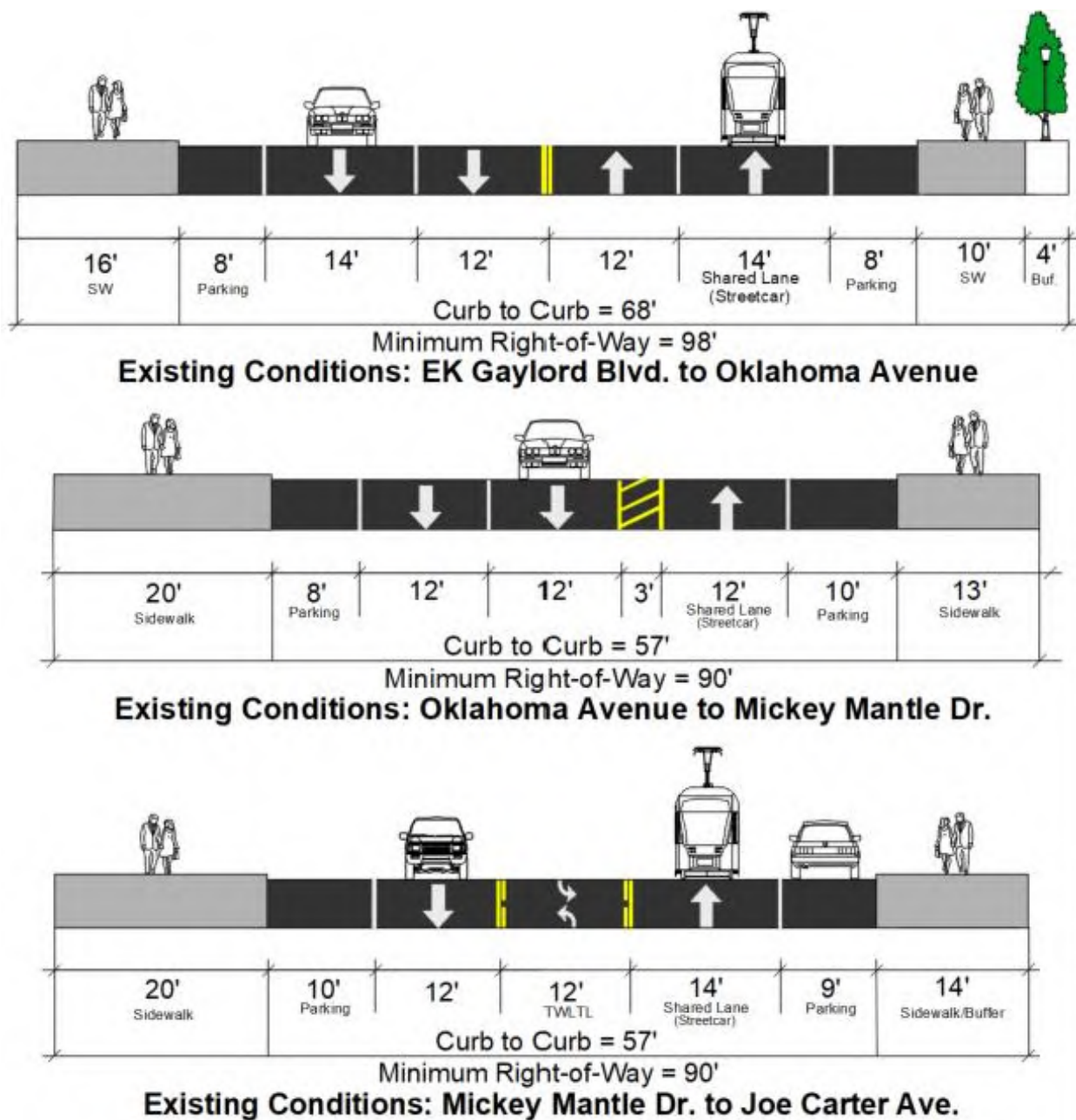


Figure 3: Existing Lane Configurations



### ***Pedestrian Network:***

The pedestrian infrastructure along Sheridan Avenue is adequate from EK Gaylord Boulevard to Joe Carter Avenue, with pushbutton activated pedestrian signal heads provided in all directions at the three signalized intersections within the project extents. High-visibility (20-foot width) crosswalks are provided at the intersections of EK Gaylord Boulevard and Joe Carter Avenue. Brick crosswalks are provided in most directions at Oklahoma Avenue and Mickey Mantle Drive intersections. ADA-compliant curb ramps are provided along Sheridan Avenue and at all four intersections within the project extents. Sidewalk widths along Sheridan Avenue range from 10-20 feet.

### ***Bicycle Network:***

Dedicated standard bicycle lanes exist on both sides of Sheridan Avenue west of EK Gaylord Boulevard to Robinson Avenue. West of Robinson Avenue, Sheridan Avenue continues to provide a bicycle-friendly route with a combination of sharrows markings and standard bicycle lanes. No bicycle facilities currently exist along Sheridan Avenue from EK Gaylord Boulevard to Lincoln Boulevard.

Bicycle sharrows are provided along Mickey Mantle Drive to the north and south of Sheridan Avenue.

The *bikewalkokc* plan identifies Sheridan Avenue, Mickey Mantle Drive, Joe Carter Avenue, and EK Gaylord Boulevard as Tier 2 bicycle facilities. A Tier 2 classification recommends a moderate level of bicycle infrastructure with a minimum standard of a traditional bicycle lane. Where safety risks are higher on any given Tier 2 alignment, it is appropriate to upgrade the facility to a protected bicycle lane. Physical constraints may necessitate the use of sharrows where traffic speeds and counts are low. Furthermore, the City of Oklahoma City's *Liveable Streets Policy* classifies the area as Urban High Intensity. Within the Urban High Intensity area, desirable vehicle travel widths range from 10-12 feet, and bicycle lanes with on-street parking are deemed as appropriate.

## ***UTILITIES***

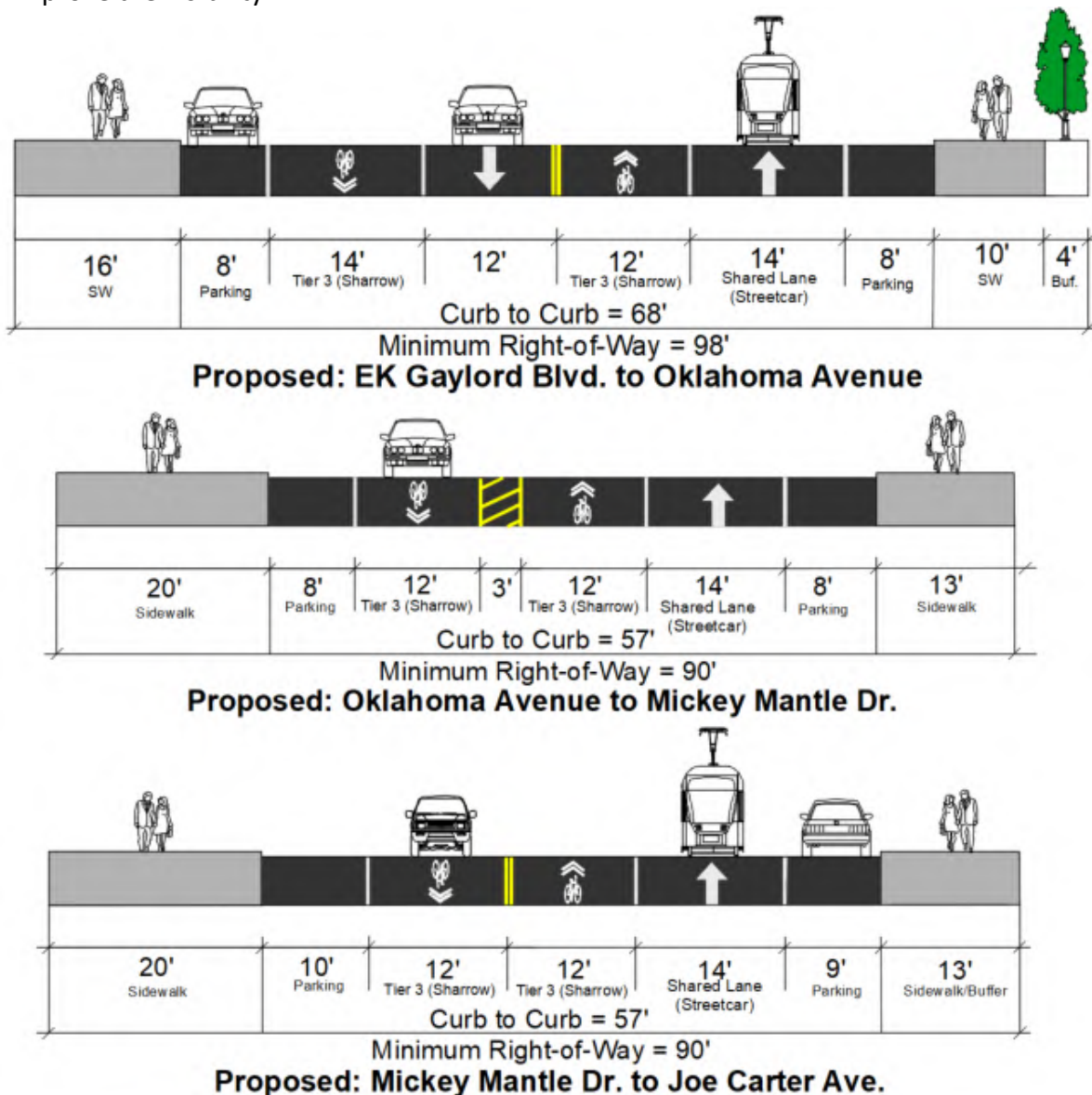
No utility relocation or modification will be needed under the recommended improvement.

## ***RIGHT-OF-WAY***

The implementation of all recommended improvements will fit within the existing right-of-way.

## **PROPOSED IMPROVEMENTS**

The main area of the project is along Sheridan Avenue from EK Gaylord Boulevard to Lincoln Boulevard where a Tier 3 bicycle facility will be provided, and the lane configuration will be updated, see **Figure 4**. The existing configuration is predominately two westbound lanes and one eastbound lane that includes the streetcar. This will be updated to provide one westbound lane with bicycle sharrows and two eastbound lanes (left lane with bicycle sharrows and right lane with streetcar). All pavement markings along the Sheridan Avenue corridor will be replaced to improve the visibility.



**Figure 4: Proposed Lane Configurations**

Other improvements included in the project are the installation of “Bicycles Cross Tracks with Care” signs, see **Figure 5**, where bicycle facilities are approaching streetcar track crossings to alert cyclists to cross the tracks carefully. Also included is the installation of R10-12 left turn on green signs at permissive left turn traffic signals and streetcar crossings, and a few “Watch for Streetcar” signs, see **Figure 6**, to alert vehicles of approaching streetcars.



Figure 5: Proposed “BICYCLES CROSS TRACKS WITH CARE” Sign



Figure 6: Proposed “WATCH FOR STREETCAR” Sign



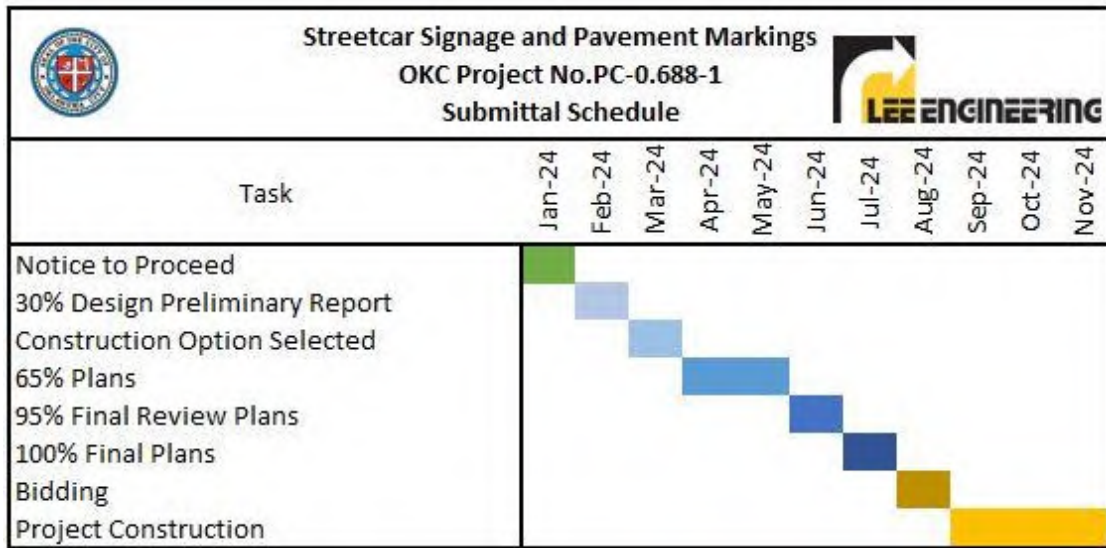
## COST ESTIMATE

**Table 1: Preliminary Traffic Cost Estimates**

PC-0688-1 - STREETCAR SIGNAGE AND PAVEMENT MARKINGS						
Oklahoma City, OK						
30% Preliminary Engineer's Estimate						
J/P 37933(04)						
February-24						
				LEE ENGINEERING ESTIMATE		
ITEM		DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
641	2110	MOBILIZATION	L.SUM	1	\$ 33,775.00	\$ 33,775.00
642(B)	3300	CONSTRUCTION STAKING LEVEL II	L.SUM	1	\$ 10,000.00	\$ 10,000.00
805(D)	3528	(PL) REMOVE & RESET EXISTING SIGNS	EA.	1	\$ 400.00	\$ 400.00
850(A)	1200	SHEET ALUMINUM SIGNS	S.F.	167	\$ 40.00	\$ 6,680.00
850(C)	1400	MAST ARM MOUNTED SIGNS (ALUM.)	S.F.	65	\$ 80.00	\$ 5,200.00
851(C)	2415	2" SQUARE TUBE POST	L.F.	324	\$ 15.00	\$ 4,860.00
855(A)	7200	TRAFFIC STRIPE (PLASTIC)(4" WIDE)	L.F.	12,265	\$ 3.00	\$ 36,795.00
855(A)	7208	TRAFFIC STRIPE (PLASTIC)(8" WIDE)	L.F.	1,940	\$ 4.00	\$ 7,760.00
855(A)	7216	TRAFFIC STRIPE (PLASTIC)(24" WIDE)	L.F.	2,318	\$ 10.00	\$ 23,180.00
855(B)	7300	TRAF.STR(PLAST)(SYMBOLS, WORDS, ETC)	EA.	3	\$ 1,000.00	\$ 3,000.00
855(B)	7304	TRAFFIC STRIPE (PLASTIC)(ARROWS)	EA.	13	\$ 400.00	\$ 5,200.00
855(B)	7312	TRAFFIC STRIPE (PLASTIC)(SYMBOLS)	EA.	32	\$ 350.00	\$ 11,200.00
857(F)	9700	PAVEMENT MRKNG. REMOVAL (TRAF. STRP)	L.F.	15,000	\$ 2.00	\$ 30,000.00
857(F)	9710	PAVEMENT MARKING REMOVAL (ARROWS)	EA.	13	\$ 100.00	\$ 1,300.00
880(B)	6300	CONSTRUCTION SIGNS 0 TO 6.25 SF	S.D.	3,600	\$ 0.50	\$ 1,800.00
880(B)	6310	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	S.D.	1,800	\$ 1.00	\$ 1,800.00
880(B)	6320	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF	S.D.	1,800	\$ 1.50	\$ 2,700.00
880(C)	6410	CONSTRUCTION BARRICADES (TYPE III)	S.D.	900	\$ 1.00	\$ 900.00
880(E)	6607	WARNING LIGHTS (TYPE B)	S.D.	1,800	\$ 0.50	\$ 900.00
880(F)	6700	DRUMS	S.D.	9,000	\$ 0.50	\$ 4,500.00
880(G)	6805	CHANNELIZER CONES	S.D.	4,500	\$ 0.50	\$ 2,250.00
890	1100	(PL) TRAFFIC ITEMS	L.SUM	1	\$ 15,000.00	\$ 15,000.00
					<b>TOTAL \$</b>	<b>209,200.00</b>

## ***SCHEDULE***

- Final Plan Completion Date: Summer 2024
- Begin Construction Date: Fall 2024
- Construction Completed: Late 2024

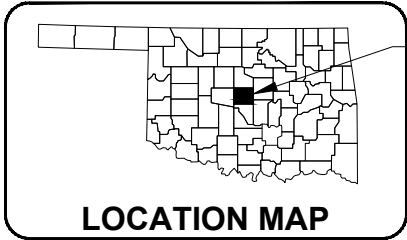


## ***CONCLUSIONS & RECOMMENDATIONS***

LEE recommends that the proposed improvements for the Bike Friendly Streetcar Project be constructed which includes:

- Sheridan Ave Tier 3 bicycle facility and lane re-configuration from EK Gaylord Blvd to Lincoln Blvd
- “WATCH FOR STREETCAR” signs at three locations
- “BICYCLES CROSS TRACKS WITH CARE” signs at streetcar and bicycle crossings
- R10-12 Left Turn on Green signs at permissive left turn lanes that cross streetcar tracks

***APPENDIX A – PRELIMINARY CONSTRUCTION PLANS***



ENTIRE PROJECT IS WITHIN  
OKLAHOMA CITY LIMITS,  
POPULATION 681,054 (2020)

STATE OF OKLAHOMA  
DEPARTMENT OF TRANSPORTATION  
PLAN OF PROPOSED  
CITY OF OKLAHOMA CITY  
PC-0688-1  
STREETCAR SIGNAGE AND  
PAVEMENT MARKINGS

OKLAHOMA CITY, OKLAHOMA  
OKLAHOMA COUNTY

FEDERAL AID PROJECT NO. STP-255F(622)AG  
STATE JOB NO. 37933(04)

LATITUDE 35°27'59.3" LONGITUDE 97°30'46.7"

REV. NO.		DESCRIPTION	REVISIONS	DATE
		30% PRELIMINARY PLANS FEBRUARY 2024		

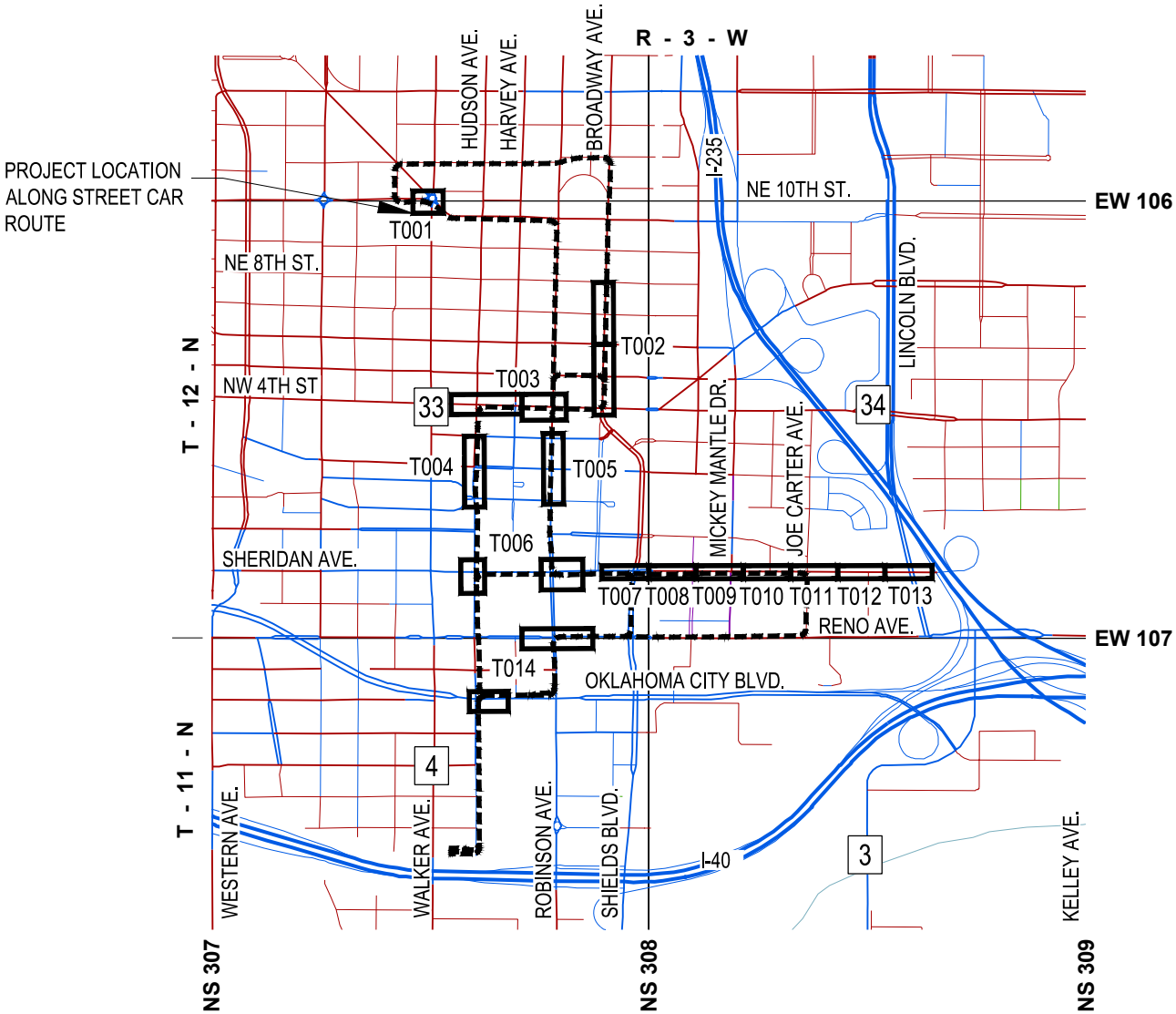
INDEX OF SHEETS

0001	TITLE SHEET
AT01	SUMMARY OF PAY QUANTITIES AND NOTES (TRAFFIC)
T001-T014	SIGNING AND PAVEMENT MARKING PLANS
T015	PAVEMENT MARKING DETAILS

SCALES  
AS SHOWN ON PLANS

LEGEND

	PROPOSED ROADS
	SECTION LINES
	QUARTER SECTION LINES
	FENCES (EXISTING)
	EXISTING GRADE
	EXISTING ROADS
	EXISTING INDEX CONTOURS
	EXISTING INTERMEDIATE CONTOURS
	BASE LINE
	PROPOSED GRADE
	COMMUNICATION LINES (EXISTING)
	COMMUNICATION LINES (EXISTING)
	POWER LINES (EXISTING)
	GAS LINE (EXISTING)
	SANITARY SEWER LINES (EXISTING)
	WATER LINES (EXISTING)
	COMMUNICATION LINES (PROPOSED)
	POWER LINES (PROPOSED)
	GAS LINE (PROPOSED)
	SANITARY SEWER LINES (PROPOSED)
	WATER LINES (PROPOSED)
	BUILDINGS (EXISTING)
	DRAINAGE STRUCTURES (EXISTING)
	DRAINAGE STRUCTURES (PROPOSED)
	RIGHT-OF-WAY LINES (EXISTING)
	RIGHT-OF-WAY LINES (PROPOSED)
	RIGHT-OF-WAY FENCE (PROPOSED)
	FLOWLINE (EXISTING)
	FLOWLINE (PROPOSED)
	TOE OF SLOPE (EXISTING)



THE FOLLOWING STANDARDS ARE REQUIRED FOR THIS PROJECT:

(2009)	(2009)	(2009)	(2009)	(2019)
TRAFFIC SIGNAL	TRAFFIC LIGHTING	TRAFFIC CONTROL	TRAFFIC SIGNING	ROADWAY
PMAP1-2-01	CCD1-1-00	TCS1-1-01	PM1-1-03	SSS-2-1
SPBP1-1-01	PBD1-1-00	TCS2-1-00	PM3-1-02	CSCD-6-2
SA1-1-02	HLD1-2-01	TCS3-1-01	PM6-1-00	LECS-5-2
ID1-1-00	HLD2-2-01	TCS4-1-01	RSD1-1-00	PR-4-1
SNS1-1-02		TCS5-1-00	RSD2-1-00	WCR-4-2
TSSS1-1-00		TCS6-1-02	GMS1-1-00	TWD-2-2
PWD1-2-00		TCS7-1-02	SSA2-1-00	
CFD1-2-01		TCS9-1-01	FGS1-1-00	
		TCS10-1-00		
		TCS11-1-01		
		TCS14-1-00		
		TCS15-1-00		
		TCS19-1-01		
		TCS20-1-00		

THIS DOCUMENT IS PRELIMINARY  
IN NATURE AND IS NOT A FINAL  
SIGNED AND SEALED DOCUMENT.



PREPARED BY:

RYAN E. HENDERSON  
OKLA. REG. NO. 27234

DATE

OKLAHOMA  
DEPARTMENT OF TRANSPORTATION

DATE APPROVED

BY

CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

DATE APPROVED

BY

DIVISION ADMINISTRATOR

SHEET NO. 0001

SCALE: N.T.S.

2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-ENGLISH GOVERN,  
APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY  
ADMINISTRATION. DECEMBER 18, 2019.



GENERAL CONSTRUCTION NOTES

CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, ENGLISH, AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DECEMBER 18, 2019, EXCEPT AS MODIFIED BY THE PLANS OR SPECIAL PROVISIONS.

THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN.

THE CONTRACTOR SHALL NOTIFY O.D.O.T. DISTRICT 4 AND THE CITY OF OKLAHOMA CITY AT LEAST FOURTEEN (14) DAYS PRIOR TO STARTING WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER: 811 or 1-800-522-OKIE(6543)  
THE CITY OF OKLAHOMA CITY: 1-405-###-####

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES".

TRAFFIC SIGNING GENERAL CONSTRUCTION NOTES

REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR UNLESS OTHERWISE DIRECTED IN THE NOTES AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE ODOT STANDARDS AND DETAIL DRAWINGS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES

EXISTING ROADWAY SHALL REMAIN OPEN DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS. CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS.

GENERAL STREETCAR REQUIREMENTS

A. STREETCAR SAFETY ENVELOPE IS 10' FROM ANY STREETCAR THE SAFETY ENVELOPE IS 360 DEGREES AROUND ANY STREETCAR ASSET.

B. ANY EMPLOYEE WORKING IN THE SAFETY ENVELOPE MUST BE TRACK ACCESS TRAINED. CERTIFICATION MUST BE RENEWED YEARLY. TRAINING CAN BE COORDINATED WITH CITY OF OKLAHOMA CITY CONTRACTOR FOR STREETCAR OPERATIONS:

HERZOG  
MATTHEW MACHELL - SAFETY AND SECURITY MANAGER  
OFFICE: 405-246-7992  
EMAIL: MMACHELL@HTSI.COM

C. CONTRACTOR MUST HAVE APPROVED TRACK ACCESS PERMIT FOR ANY WORK IN THE SAFETY ENVELOPE. MATTHEW MACHELL WITH HERZOG WILL ASSIST WITH ALL PERMITTING FOR THE STREETCAR. WHEN SUBMITTING FOR A PERMIT, PLEASE SUBMIT PLANS AND DETAILS FOR THE REQUESTED WORK AREA AND TRAFFIC PLANS THAT WILL AFFECT THE WORK AREA.

D. ENERGIZED LINE - IF LINE MUST BE DE-ENERGIZED CONTRACTOR WILL BE CHARGED A FEE.

E. CONTRACTOR WILL BE RESPONSIBLE TO SUPPLY A TRAINED SPOTTER IF LINE IS DE-ENERGIZED, WHILE STREETCAR IS IN SERVICE. THIS MAY INCLUDE TIMES THAT WORKERS ARE NOT PRESENT IN THE WORK ZONE.

F. CONTRACTOR WILL BE RESPONSIBLE TO SUPPLY A TRAINED SPOTTER ANYTIME WORK IS OCCURRING WITHIN THE STREETCAR SAFETY ENVELOPE.

G. NO EQUIPMENT CAN BE PARKED ON THE STREETCAR TRACKS.

H. ANY STRIPING CURRENTLY SPECIFIC FOR THE STREETCAR, IF REMOVED MUST BE REPLACED AND APPROVED BY HERZOG.

TRAFFIC SIGNING PAY QUANTITY NOTES

(TS-6) SHOP DRAWINGS FOR ATTACHING SIGNS TO LIGHT AND/OR SIGNAL POLES AND MAST ARMS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR APPROVAL BEFORE FABRICATION. NO HOLES SHALL BE PERMITTED IN ANY LIGHT AND/OR SIGNAL POLE OR MAST ARM. THE PRICE BID SHALL INCLUDE ALL MATERIALS, LABOR, HARDWARE AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED.

(TS-19) QUANTITY SHOWN INCLUDES 4,925 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND 7,340 L.F. TRAFFIC STRIPE(PLASTIC)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.

(TS-21) QUANTITY SHOWN INCLUDES 1,642 L.F. TRAFFIC STRIPE(PLASTIC)(WHITE) AND 298 L.F. TRAFFIC STRIPE(PLASTIC)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (8") WIDE TRAFFIC STRIPE.

(TS-23) QUANTITY SHOWN INCLUDES 2,223 L.F. TRAFFIC STRIPE(PLASTIC)(WHITE) AND 95 L.F. TRAFFIC STRIPE(PLASTIC)(GREEN) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (24") WIDE TRAFFIC STRIPE.

(TS-32) THE AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE) SHALL INCLUDE COST OF REMOVAL OF WORDS AND SYMBOLS. THE PAVEMENT MARKING TO BE REMOVED SHALL BE CONSIDERED THERMOPLASTIC AND BID ACCORDINGLY.

DURING REMOVAL OF EXISTING STRIPING AND REPLACEMENT WITH NEW STRIPING, PERMANENT STRIPING SHALL BE REPLACED WITHIN 48 HOURS AFTER OLD STRIPING IS REMOVED.

(TS-41) "REMOVAL OF EXISTING SIGNS" AND "REMOVE & RESET EXISTING SIGNS" SHALL INCLUDE THE REMOVAL OF A COMPLETE SIGN ASSEMBLY WHICH MAY INCLUDE MULTIPLE SIGNS, POSTS, FOOTINGS, AND ANY FOOTINGS ADJACENT TO THE SIGN ASSEMBLY, UNLESS NOTED OTHERWISE IN THE PLANS. WHEN APPROVED BY THE ENGINEER, FOOTINGS MAY BE OBLITERATED TO A POINT BELOW GROUND LEVEL IN LIEU OF BEING COMPLETELY REMOVED. SEE GENERAL CONSTRUCTION NOTES FOR DISPOSAL OF OLD CONCRETE FOOTING MATERIAL. ALL REMOVED SIGNS TO BECOME PROPERTY OF THE CITY OF OKLAHOMA CITY.

PAY QUANTITY NOTES - TRAFFIC CONTROL

(TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT. ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'B' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.

(TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION) THE MANUFACTURER SHALL FURNISH A TYPE 'D' CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.

(TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.

(TC-84) 90 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.

PAY QUANTITY NOTES - TRAFFIC

(1) PAY ITEM TO INCLUDE A TRACK ACCESS TRAINED SPOTTER WHEN THE STREETCAR LINE IS DE-ENERGIZED OR WHEN WORK IS OCCURRING WITHIN THE STREETCAR SAFETY ENVELOPE. PRICE TO INCLUDE ALL OTHER TRAINING, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM WORK AS DEFINED BY THE CITY OF OKLAHOMA CITY CONTRACTOR FOR STREETCAR OPERATIONS.

PAY QUANTITY NOTES - STAKING

(2) ESTABLISHMENT AND RE-ESTABLISHMENT OF HORIZONTAL AND VERTICAL CONTROL, INCLUDING THE SETTING AND RE-SETTING OF BENCHMARKS AND THE STAKING AND RE-STAKING OF RIGHT-OF-WAY WILL BE INCLUDED IN THE PRICE BID FOR STAKING.

37933(04)				
0300				
TRAFFIC				
SUMMARY OF PAY QUANTITIES				
ITEM		DESCRIPTION		UNIT
805(D)		3528 (PL) REMOVE & RESET EXISTING SIGNS (TS-41)		EA.
850(A)		1200 SHEET ALUMINUM SIGNS		S.F.
850(C)		1400 MAST ARM MOUNTED SIGNS (ALUM.) (TS-6)		S.F.
851(C)		2415 2" SQUARE TUBE POST		L.F.
855(A)		7200 TRAFFIC STRIPE (PLASTIC)(4" WIDE) (TS-19)		L.F.
855(A)		7208 TRAFFIC STRIPE (PLASTIC)(8" WIDE) (TS-21)		L.F.
855(A)		7216 TRAFFIC STRIPE (PLASTIC)(24" WIDE) (TS-23)		L.F.
855(B)		7300 TRAF.STR(PLAST)(SYMBOLS, WORDS, ETC) (T-6)		EA.
856(B)		7304 TRAFFIC STRIPE (PLASTIC)(ARROWS) (T-6)		EA.
856(B)		7312 TRAFFIC STRIPE (PLASTIC)(SYMBOLS) (T-6)		EA.
857(F)		9700 PAVEMENT MRKNG. REMOVAL (TRAF. STRP) (TS-32)		L.F.
857(F)		9710 PAVEMENT MARKING REMOVAL (ARROWS) (TS-32)		EA.
890		1110 (PL) TRAFFIC ITEMS (1)		EA.

37933(04)				
0301				
TRAFFIC CONTROL				
ITEM		DESCRIPTION		UNIT
880(B)		6300 CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26,33,70,84)		S.D.
880(B)		6310 CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26,33,70,84)		S.D.
880(B)		6320 CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26,33,70,84)		S.D.
880(C)		6410 CONSTRUCTION BARRICADES (TYPE III) (TC-26,70,84)		S.D.
880(E)		6607 WARNING LIGHTS (TYPE B) (TC-26,70,84)		S.D.
880(F)		6700 DRUMS (TC-26,70,84)		S.D.
880(G)		6805 CHANNELIZER CONES (TC-26,70,84)		S.D.

37933(04)				
0600				
STAKING				
ITEM		DESCRIPTION		UNIT
642(B)		3300 CONSTRUCTION STAKING LEVEL II (2)		L.SUM

37933(04)				
0640				
CONSTRUCTION				
ITEM		DESCRIPTION		UNIT
641		2110 MOBILIZATION		L.SUM



PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS OKLAHOMA COUNTY

SUMMARY OF PAY QUANTITIES AND NOTES (TRAFFIC)

State Job No. 37933(04) Sheet No. AT01

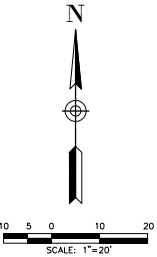
REV. NO.		DESCRIPTION	REVISIONS	DATE
		30% PLANS FEBRUARY 2024		



NOTES:

- CONTRACTOR SHALL MEET AND MATCH EXISTING STRIPING AT PROPOSED STRIPING LIMITS.
- CONTRACTOR SHALL COMPLETELY ELIMINATE ALL PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS THAT ARE IN CONFLICT WITH THE PROPOSED LANE CONFIGURATIONS.
- CONTRACTOR SHALL REMOVE ALL SIGNS WITHIN THE PROJECT LIMITS THAT ARE IN CONFLICT WITH THE PROPOSED LANE CONFIGURATIONS OR PROPOSED LOCATIONS OF NEW SIGNS.
- ALL SIGNS AND POSTS SHALL BE NEW AND UNDAMAGED.

- LEGEND
- ① 4" SOLID WHITE LINE
  - ② 4" DOUBLE YELLOW BARRIER LINE
  - ③ 4" DASHED WHITE LINE
  - ④ 8" SOLID WHITE GORE SPACED 15' C/C
  - ⑤ 8" SOLID WHITE GORE SPACED 5' C/C
  - ⑥ 8" SOLID YELLOW GORE SPACED 15' C/C
  - ⑦ 24" SOLID WHITE STOP BAR
  - ⑧ 24" CONTINENTAL CROSSWALK
  - ⊗ REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
  - ⌋⌋ GROUND MOUNTED SIGN



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PC-0688-1 STREETCAR  
SIGNAGE AND PAVEMENT  
MARKINGS

OKLAHOMA COUNTY

**SIGNING AND PAVEMENT  
MARKING (1 OF 14)**

State Job No. 37933(04) Sheet No. T001

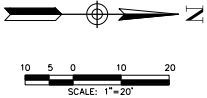


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REV. NO.	DESCRIPTION	DATE
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  - ALL SIGNS AND POSTS SHALL BE NEW AND UNDAMAGED.

LEGEND	
①	4" SOLID WHITE LINE
②	4" DOUBLE YELLOW BARRIER LINE
③	4" DASHED WHITE LINE
④	8" SOLID WHITE GORE SPACED 15' C/C
⑤	8" SOLID WHITE GORE SPACED 5' C/C
⑥	8" SOLID YELLOW GORE SPACED 15' C/C
⑦	24" SOLID WHITE STOP BAR
⑧	24" CONTINENTAL CROSSWALK
⊗	REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
⌋◇	GROUND MOUNTED SIGN



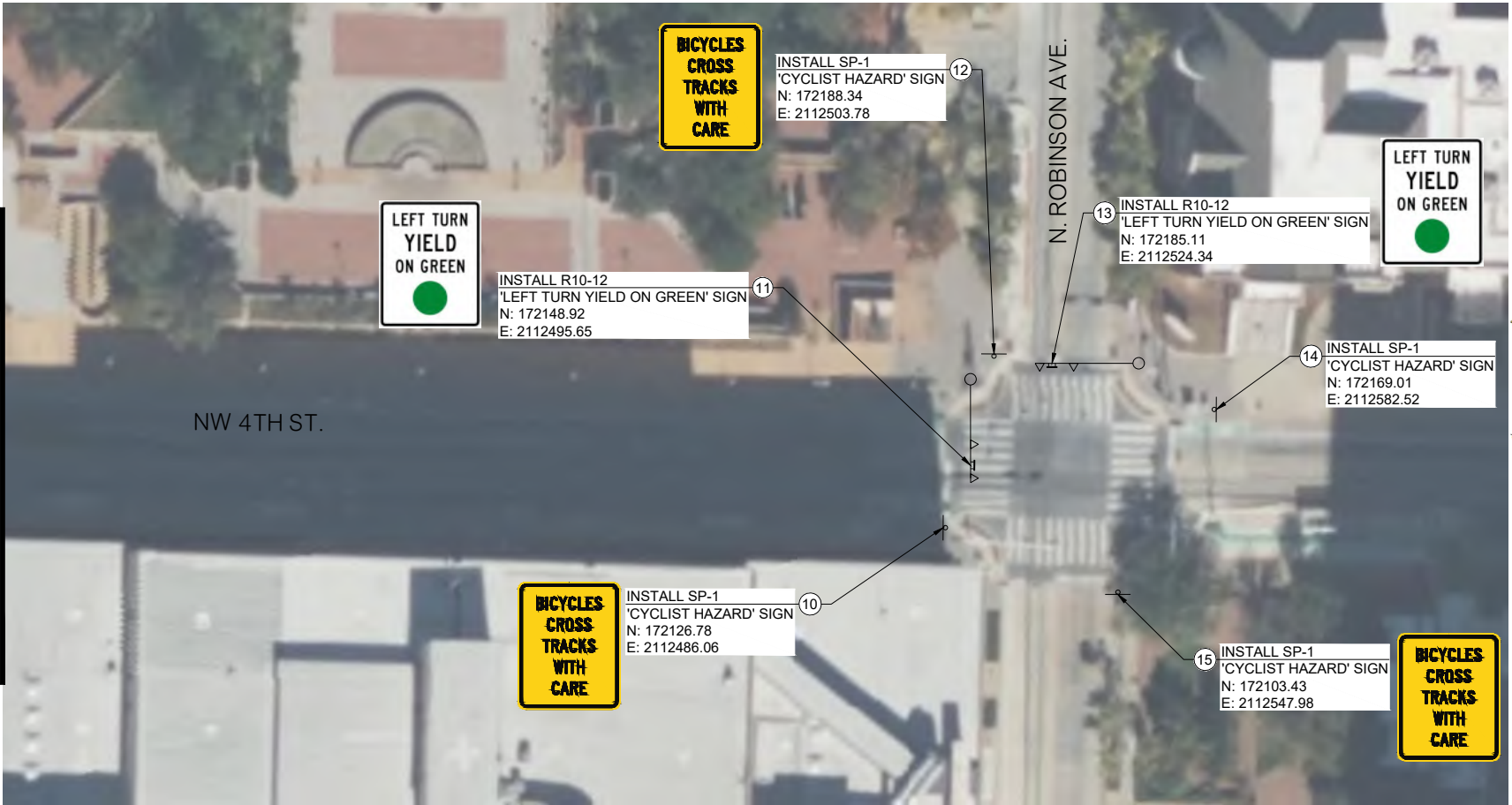
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OKLAHOMA COUNTY  
**SIGNING AND PAVEMENT MARKING (2 OF 14)**

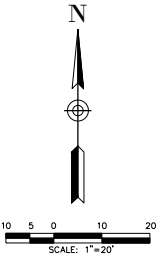


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LEGEND	
1	4" SOLID WHITE LINE
2	4" DOUBLE YELLOW BARRIER LINE
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5	8" SOLID WHITE GORE SPACED 5' C/C
6	8" SOLID YELLOW GORE SPACED 15' C/C
7	24" SOLID WHITE STOP BAR
8	24" CONTINENTAL CROSSWALK
X	REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
○	GROUND MOUNTED SIGN



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PC-0688-1 STREETCAR  
SIGNAGE AND PAVEMENT  
MARKINGS

OKLAHOMA COUNTY

**SIGNING AND PAVEMENT  
MARKING (3 OF 14)**

State Job No. 37933(04) Sheet No. T003

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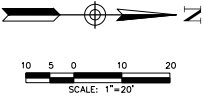


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LEGEND

- 1 4" SOLID WHITE LINE
- 2 4" DOUBLE YELLOW BARRIER LINE
- 3 4" DASHED WHITE LINE
- 4 8" SOLID WHITE GORE SPACED 15' C/C
- 5 8" SOLID WHITE GORE SPACED 5' C/C
- 6 8" SOLID YELLOW GORE SPACED 15' C/C
- 7 24" SOLID WHITE STOP BAR
- 8 24" CONTINENTAL CROSSWALK
- REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
- GROUND MOUNTED SIGN



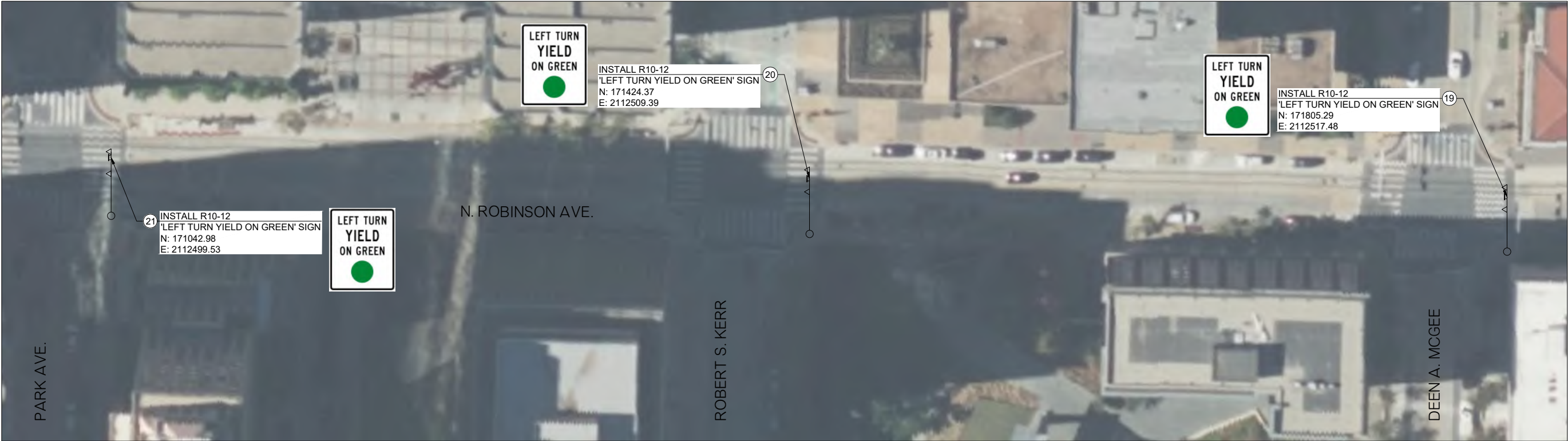
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OKLAHOMA COUNTY  
**SIGNING AND PAVEMENT MARKING (4 OF 14)**



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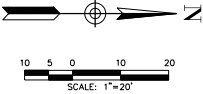


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LEGEND

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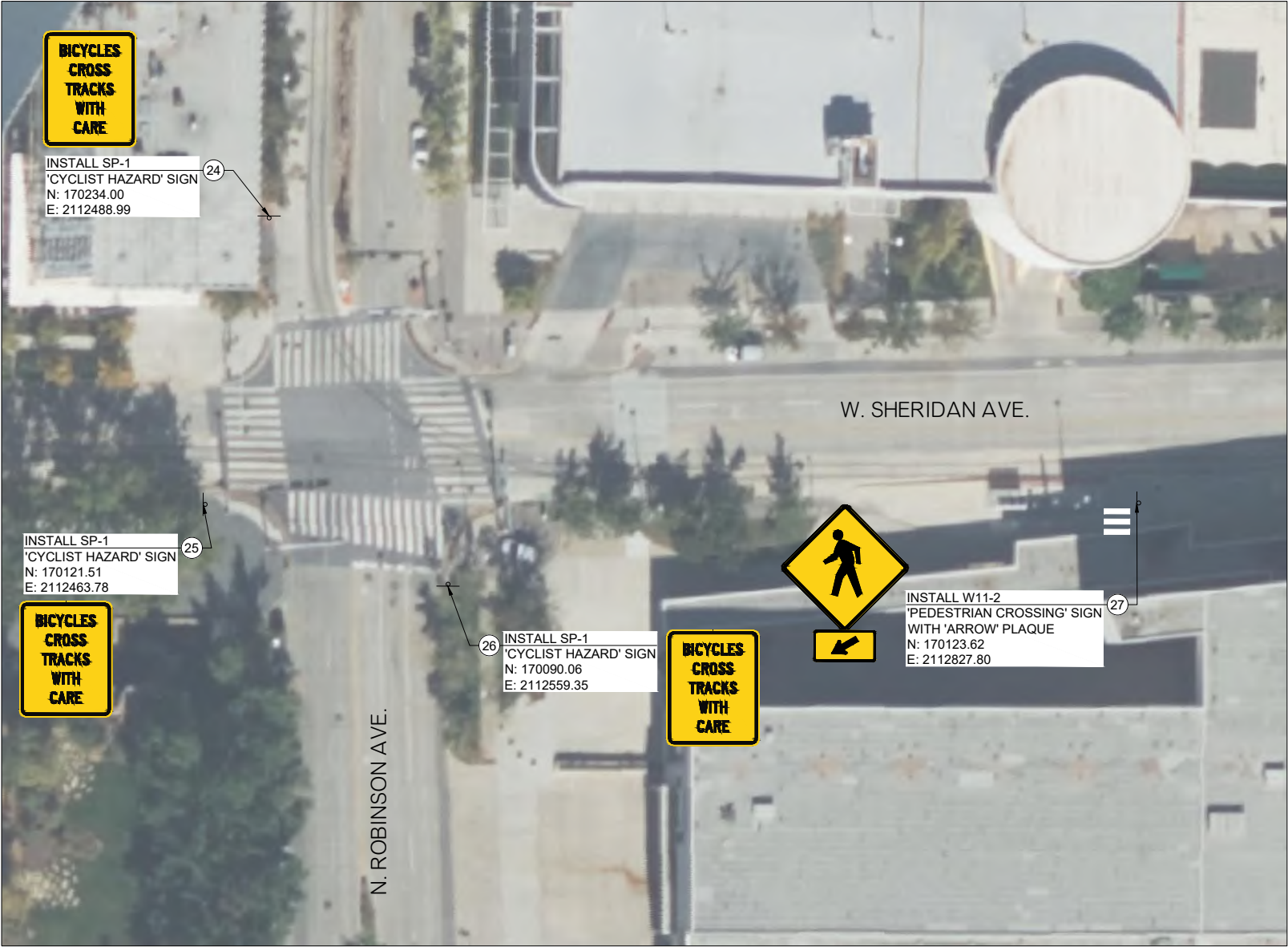


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PC-0688-1 STREETCAR OKLAHOMA COUNTY  
SIGNAGE AND PAVEMENT  
MARKINGS

SIGNING AND PAVEMENT  
MARKING (5 OF 14)

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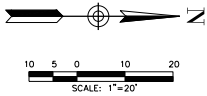


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**LEGEND**

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- ③ 4" DASHED WHITE LINE
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- ⑧ 24" CONTINENTAL CROSSWALK
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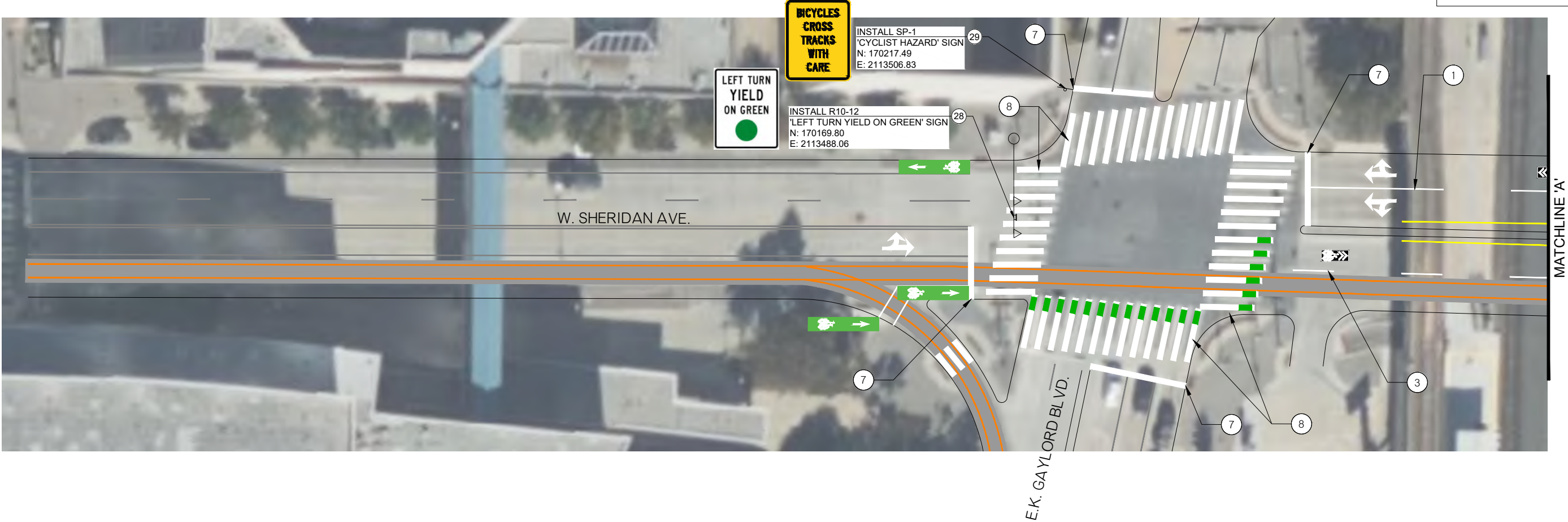
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PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS  
OKLAHOMA COUNTY  
**SIGNING AND PAVEMENT MARKING (6 OF 14)**

State Job No. 37933(04) Sheet No. T006



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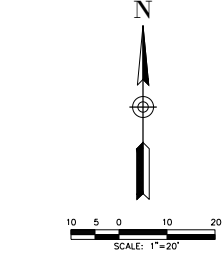


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4. ALL SIGNS AND POSTS SHALL BE NEW AND UNDAMAGED.

**LEGEND**

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- ② 4" DOUBLE YELLOW BARRIER LINE
- ③ 4" DASHED WHITE LINE
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- ⑤ 8" SOLID WHITE GORE SPACED 5' C/C
- ⑥ 8" SOLID YELLOW GORE SPACED 15' C/C
- ⑦ 24" SOLID WHITE STOP BAR
- ⑧ 24" CONTINENTAL CROSSWALK
- ⊗ REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
- ⊕ GROUND MOUNTED SIGN



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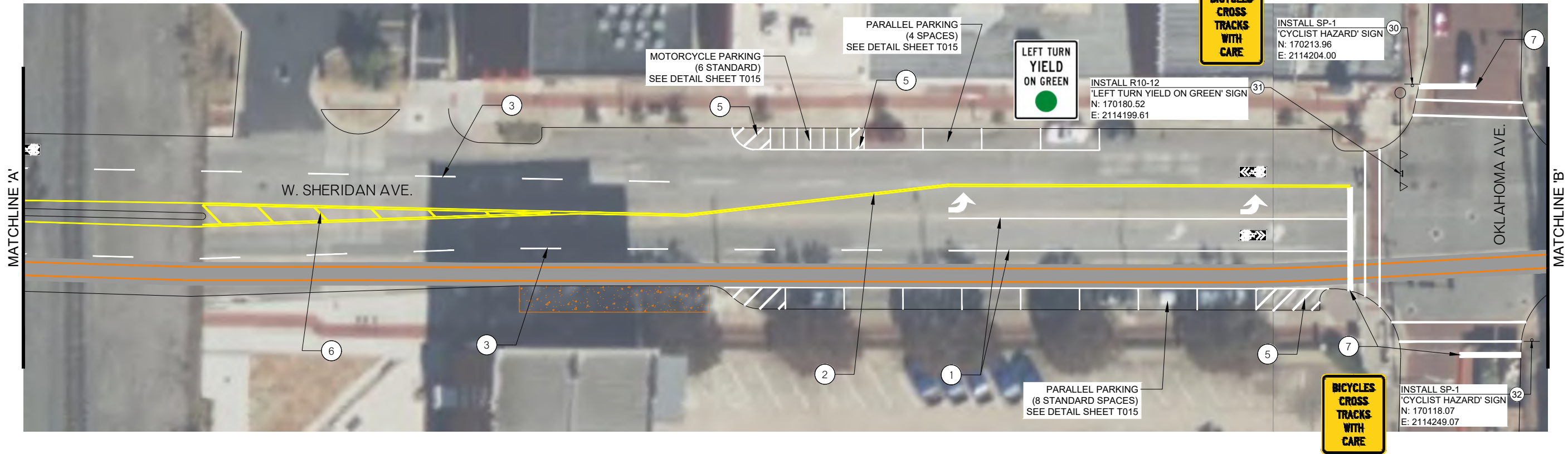
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SIGNAGE AND PAVEMENT  
MARKINGS

OKLAHOMA COUNTY

**SIGNING AND PAVEMENT  
MARKING (7 OF 14)**

State Job No. 37933(04) Sheet No. T007

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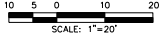
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**LEGEND**

- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW BARRIER LINE
- ③ 4" DASHED WHITE LINE
- ④ 8" SOLID WHITE GORE SPACED 15' C/C
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- ⑦ 24" SOLID WHITE STOP BAR
- ⑧ 24" CONTINENTAL CROSSWALK
- ⊗ REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
- ⌋◇ GROUND MOUNTED SIGN

N



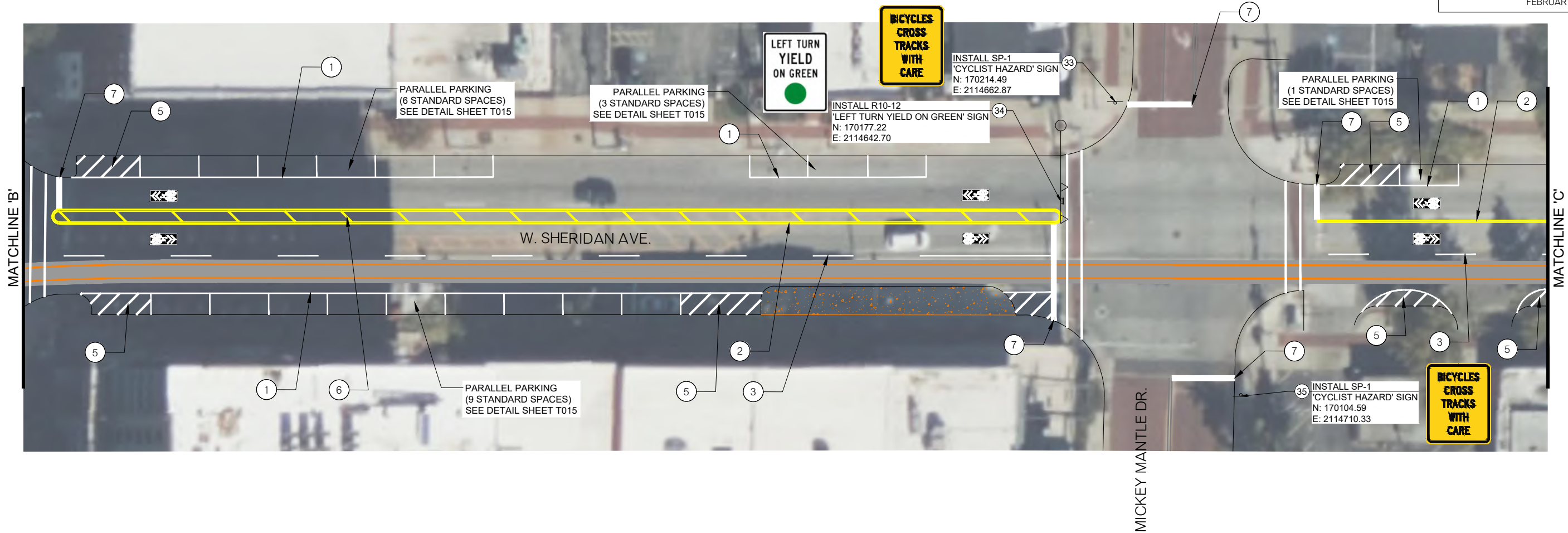
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PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS  
**SIGNING AND PAVEMENT MARKING (8 OF 14)**



REVISIONS		
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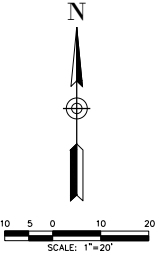


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**LEGEND**

- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW BARRIER LINE
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- ⊗ REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
- ⌋⌋ GROUND MOUNTED SIGN

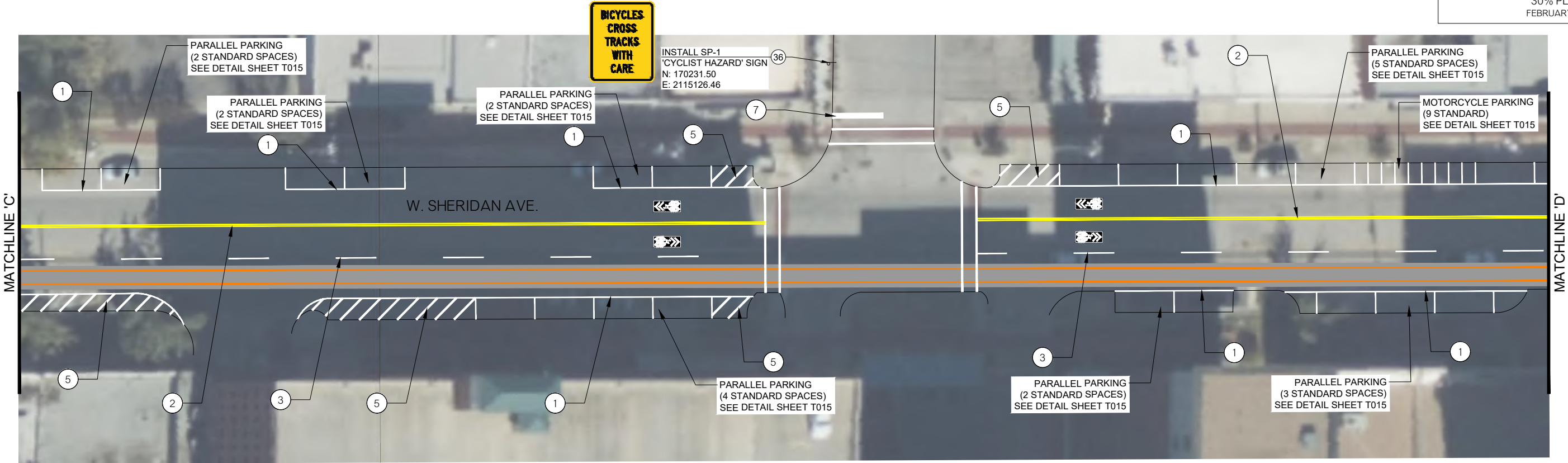


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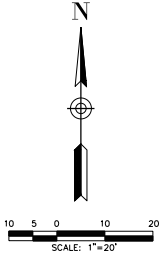
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PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS  
**SIGNING AND PAVEMENT MARKING (9 OF 14)**



- NOTES:**
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LEGEND	
①	4" SOLID WHITE LINE
②	4" DOUBLE YELLOW BARRIER LINE
③	4" DASHED WHITE LINE
④	8" SOLID WHITE GORE SPACED 15' C/C
⑤	8" SOLID WHITE GORE SPACED 5' C/C
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⑦	24" SOLID WHITE STOP BAR
⑧	24" CONTINENTAL CROSSWALK
⊗	REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
⌋	GROUND MOUNTED SIGN



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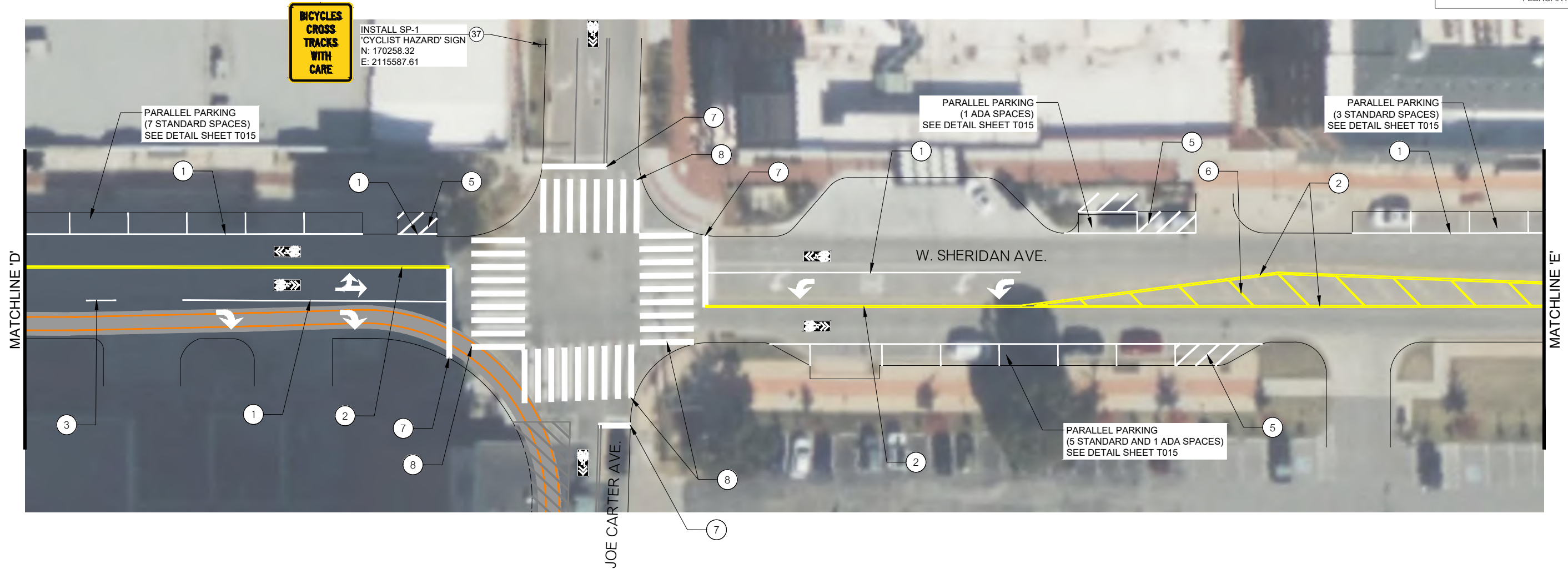
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SIGNAGE AND PAVEMENT  
MARKINGS

OKLAHOMA COUNTY

**SIGNING AND PAVEMENT  
MARKING (10 OF 14)**

State Job No. 37933(04) Sheet No. T010



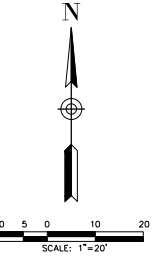


**NOTES:**

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- CONTRACTOR SHALL COMPLETELY ELIMINATE ALL PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS THAT ARE IN CONFLICT WITH THE PROPOSED LANE CONFIGURATIONS.
- CONTRACTOR SHALL REMOVE ALL SIGNS WITHIN THE PROJECT LIMITS THAT ARE IN CONFLICT WITH THE PROPOSED LANE CONFIGURATIONS OR PROPOSED LOCATIONS OF NEW SIGNS.
- ALL SIGNS AND POSTS SHALL BE NEW AND UNDAMAGED.

**LEGEND**

- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW BARRIER LINE
- ③ 4" DASHED WHITE LINE
- ④ 8" SOLID WHITE GORE SPACED 15' C/C
- ⑤ 8" SOLID WHITE GORE SPACED 5' C/C
- ⑥ 8" SOLID YELLOW GORE SPACED 15' C/C
- ⑦ 24" SOLID WHITE STOP BAR
- ⑧ 24" CONTINENTAL CROSSWALK
- ⊗ REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS)
- ⊔ GROUND MOUNTED SIGN



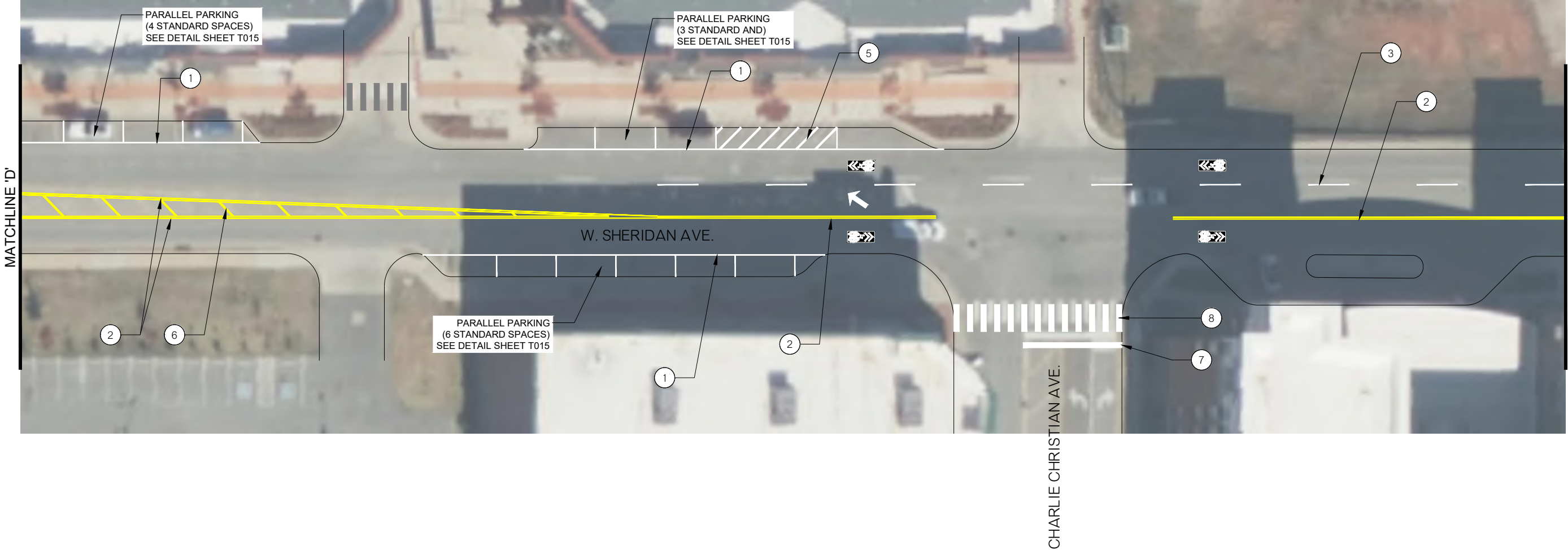
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PC-0688-1 STREETCAR  
SIGNAGE AND PAVEMENT  
MARKINGS  
**SIGNING AND PAVEMENT  
MARKING (11 OF 14)**



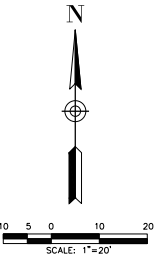


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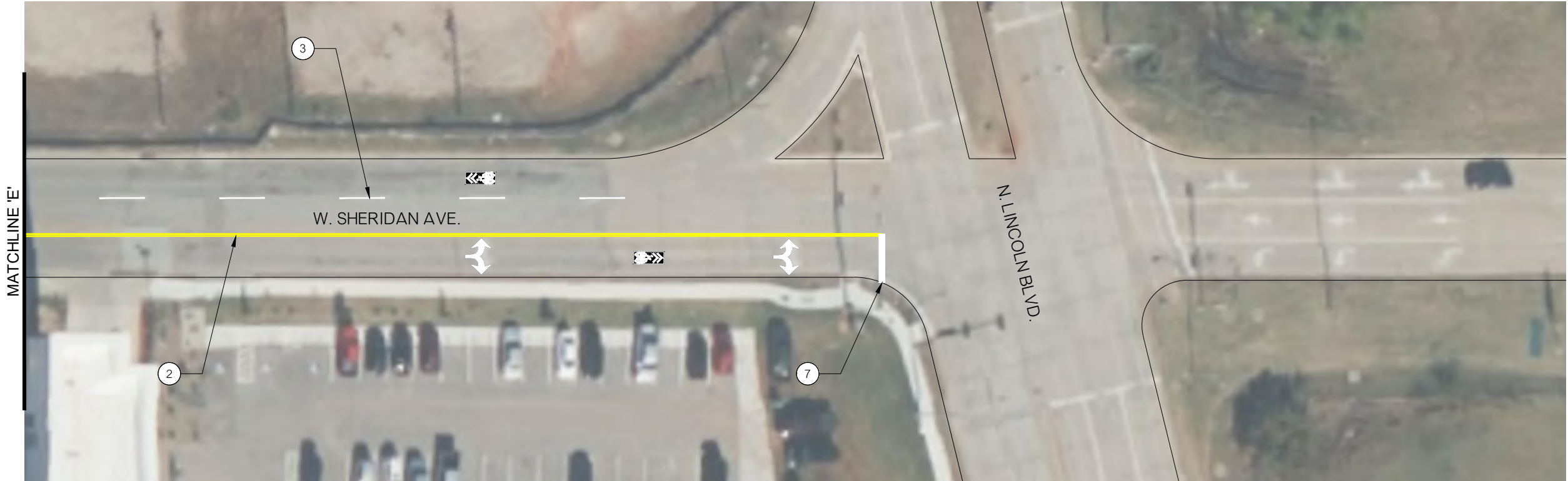
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PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS  
**SIGNING AND PAVEMENT MARKING (12 OF 14)**

REV. NO.		DESCRIPTION	REVISIONS	DATE
		30% PLANS FEBRUARY 2024		

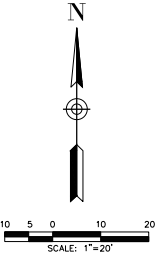


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SIGNAGE AND PAVEMENT  
MARKINGS

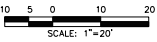
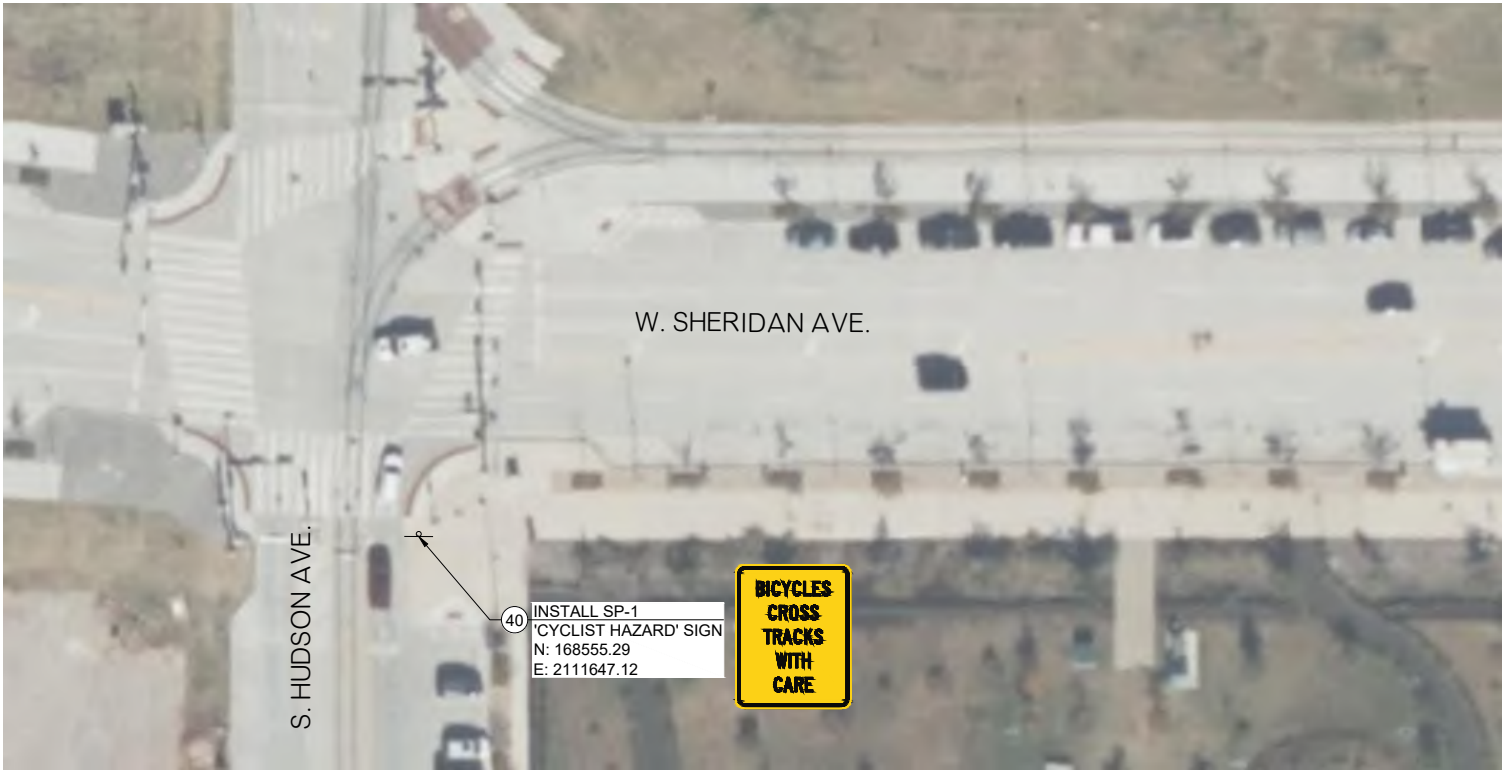
OKLAHOMA COUNTY

**SIGNING AND PAVEMENT  
MARKING (13 OF 14)**

State Job No. 37933(04) Sheet No. T013



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**LEGEND**

- |    |                                            |
|----|--------------------------------------------|
| ①  | 4" SOLID WHITE LINE                        |
| ②  | 4" DOUBLE YELLOW BARRIER LINE              |
| ③  | 4" DASHED WHITE LINE                       |
| ④  | 8" SOLID WHITE GORE SPACED 15' C/C         |
| ⑤  | 8" SOLID WHITE GORE SPACED 5' C/C          |
| ⑥  | 8" SOLID YELLOW GORE SPACED 15' C/C        |
| ⑦  | 24" SOLID WHITE STOP BAR                   |
| ⑧  | 24" CONTINENTAL CROSSWALK                  |
| ⊗  | REMOVE SIGN (SEE SUMMARY OF SIGN REMOVALS) |
| ⌋⌋ | GROUND MOUNTED SIGN                        |

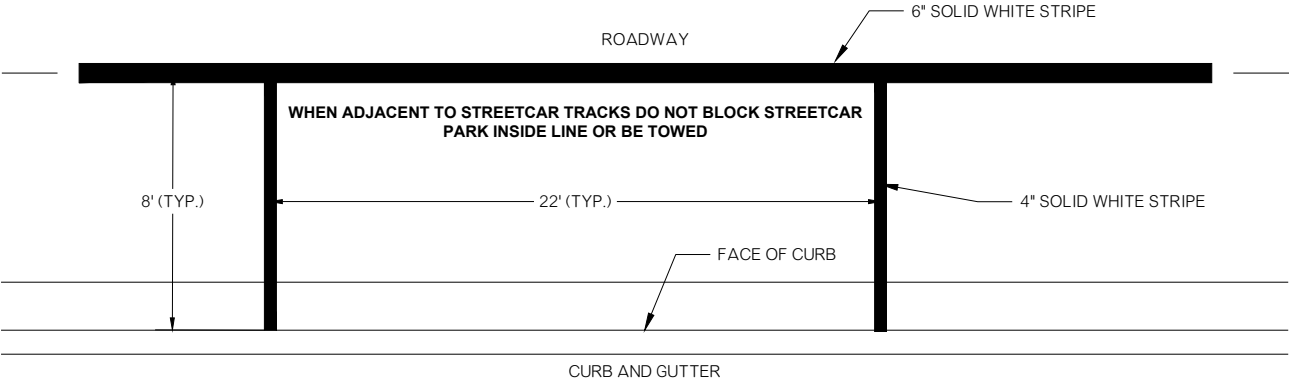


PC-0688-1 STREETCAR SIGNAGE AND PAVEMENT MARKINGS

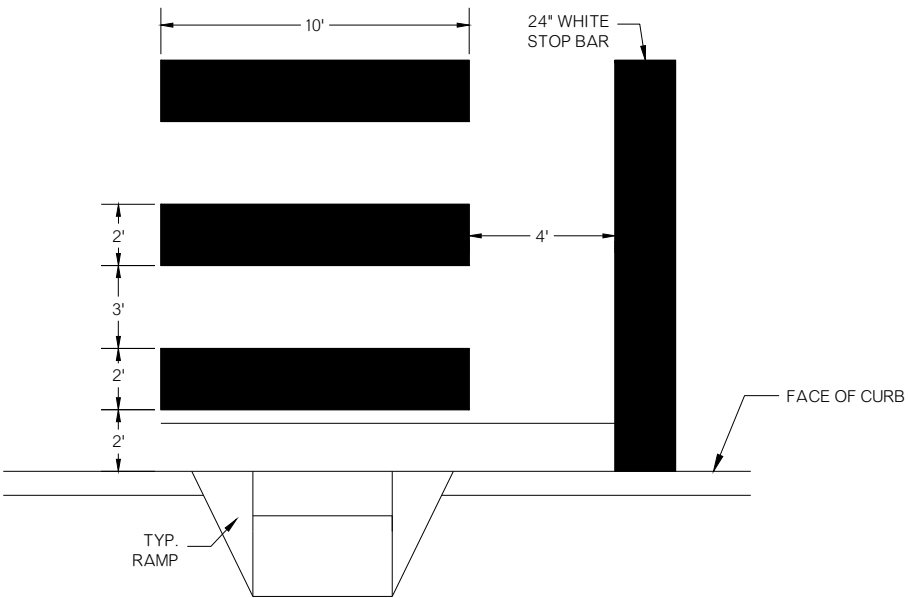
**SIGNING AND PAVEMENT MARKING (14 OF 14)**

State Job No. 37933(04) Sheet No. T014

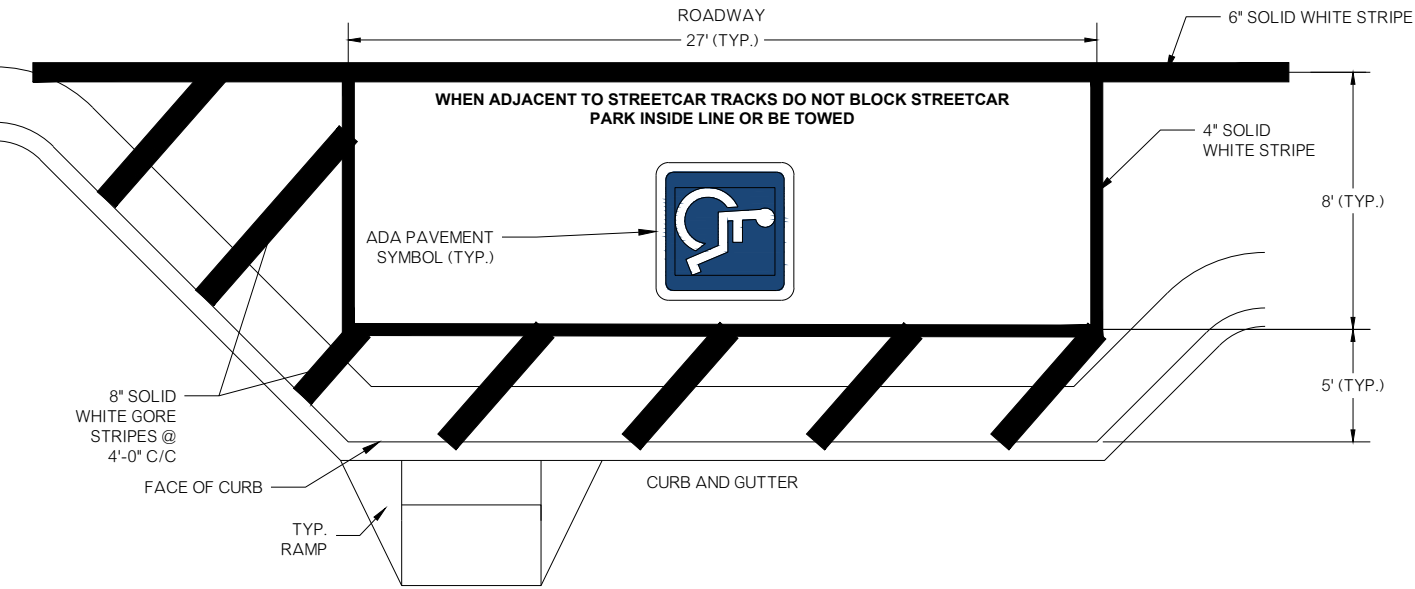
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PARALLEL PARKING DETAIL  
N.T.S.



CONTINENTAL CROSSWALK DETAILS  
N.T.S.



ADA PARALLEL PARKING DETAILS  
N.T.S.



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PC-0688-1 STREETCAR  
SIGNAGE AND PAVEMENT  
MARKINGS

OKLAHOMA COUNTY

**PAVEMENT MARKING  
DETAILS**

State Job No. 37933(04) Sheet No. T015