

# CITY OF TULSA, OKLAHOMA CONSTRUCTION PLANS FOR ARTERIAL STREET REHABILITATION E. 71st STREET S.

## FROM S. MEMORIAL DRIVE TO S. MINGO RD. INCLUDING THE INTERSECTION OF 71st ST. & MEMORIAL DR.

### PROJECT NOS. 144017-AF AND 144017-BD

### ACCOUNT NO. 144017.STREETS.5453104.4053122-541106

### ENGINEERING SERVICES DEPARTMENT

### TULSA, OKLAHOMA

#### LEGEND OF SYMBOLS

- |  |                        |                         |   |
|--|------------------------|-------------------------|---|
|  | EXISTING MANHOLE       |                         | EXISTING FENCES                                   |
|  | EXISTING CURB INLET    |                         | EXISTING GUARD RAIL                               |
|  | PROPOSED CURB INLET    |                         | EXISTING ROADS, DRIVEWAYS, PARKING, AND SIDEWALKS |
|  | EXISTING FIRE HYDRANT  |                         | C.R.L.  |
|  | EXISTING WATER VALVE   |                         | PROPERTY LINE                                     |
|  | EXISTING WATER METER   |                         | RIGHT-OF-WAY LINES-EXISTING                       |
|  | EXISTING GAS VALVE     |                         | EXISTING AERIAL POWER LINES                       |
|  | GAS METER/GAS RISER    |                         | EXISTING UNDERGROUND POWER LINES                  |
|  | STREET LIGHT           |                         | EXISTING SANITARY SEWERS                          |
|  | POWER POLE             |                         | EXISTING WATER LINES                              |
|  | GUY ANCHOR             |                         | RCP   |
|  | EXISTING HANDICAP RAMP |                         | EXISTING STORM SEWER                              |
|  | TRAFFIC SIGNAL PULLBOX |                         |   |
|  | POWER BOX (IN GROUND)  |                         |   |
|  | POWER RISER            | <b>UTILITY CONTACTS</b> |   |
|  | TELEPHONE RISER        | AT&T                    | ALFORD NICHOLS 596-4237                           |
|  | SIGN                   | COX COMM.               | BRANDON WADE 286-4716                             |
|  | MAILBOX                | ONG                     | JONATHON MEADOWS 831-8215                         |
|  | CONTROL POINT          | AEP/PSO                 | ADAM FIELDS 250-6257                              |
|  | SOIL BORINGS           | CITY OF TULSA           | CHRIS KOVAC 596-9649                              |
|  | TREE                   | UTILITY COORDINATOR     | mtta  |
|  | GATE                   | eric smith              | 830-0024  |

DESIGN SPEED 40 MPH  
AADT (2017)= 29,500  
ESALS (RIGID) = 3.0 MIL  
5.00 LN-MI REHABILITATION

#### INDEX OF SHEETS

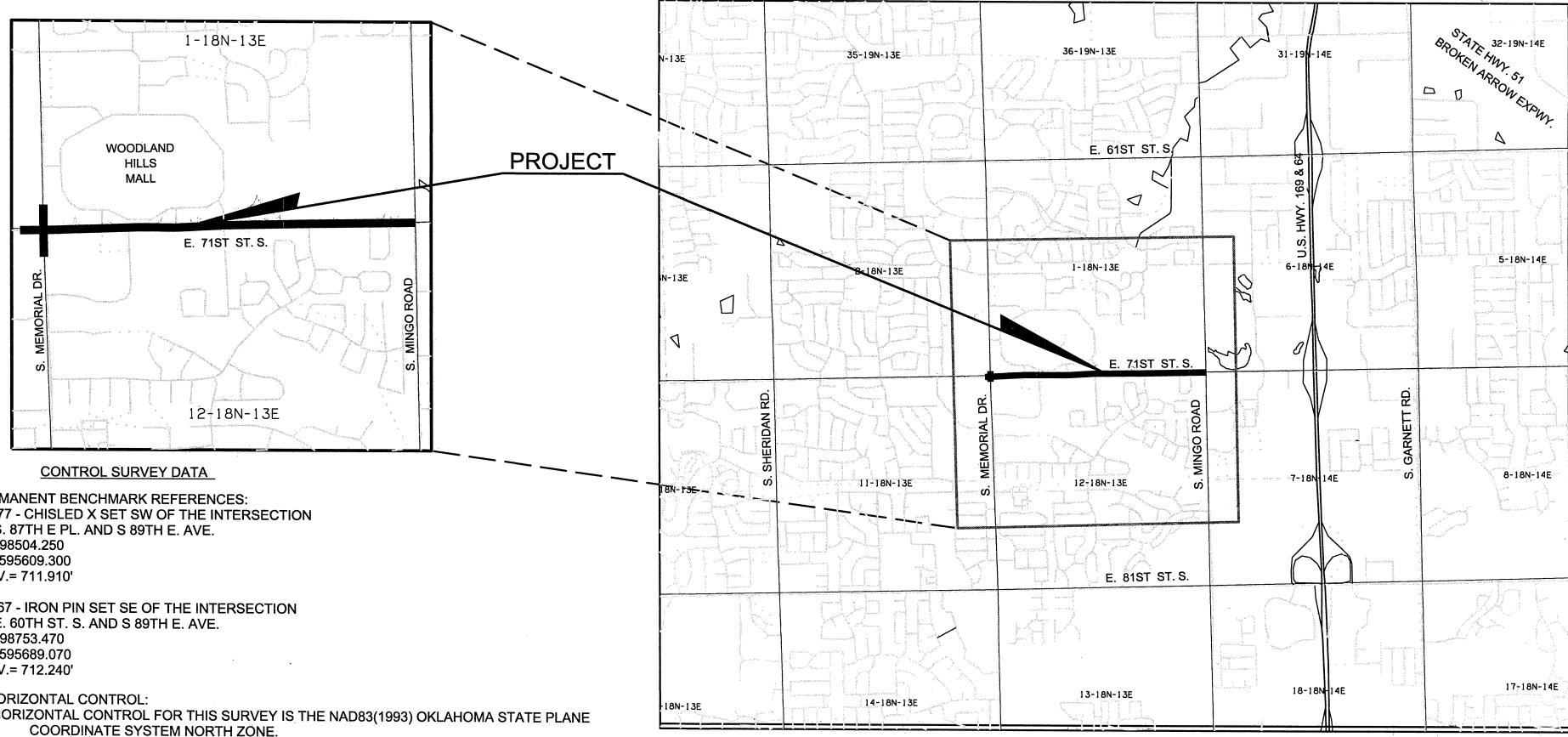
- 1 COVER SHEET
- 2 PAY QUANTITIES & NOTES (PAVING)
- 3 GENERAL CONSTRUCTION NOTES
- 4 DETAIL SHEET
- 5 - 8 SUMMARY SHEETS
- 9 - 24 PLAN AND PROFILE SHEETS
- 25 - 27 SIGNING AND STRIPING PLANS
- 28 - 30 TRAFFIC CONTROL PLANS

#### THE FOLLOWING CITY OF TULSA STANDARD DRAWINGS WILL BE USED FOR THIS PROJECT:

- |           |  |
|-----------|--|
| 102       | PROJECT SIGN   |
| 126       | STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE                            |
| 401       | MANHOLE GRADE ADJUSTMENT   |
| 608A      | STREET NAME SIGNS  |
| 608B      | TRAFFIC SIGNS  |
| 625       | REMOVAL OF TRAFFIC ITEMS   |
| 727 & 729 | CONCRETE PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR STREETS |
| 764       | STANDARD REINFORCED CONCRETE STORM WATER INLETS                          |
| 765       | STANDARD STORMWATER FRAMES   |
| 766       | STANDARD STORMWATER GRATES   |
| 767       | STANDARD CAST IRON CURB  |

#### THE FOLLOWING ODOT STANDARD DRAWINGS WILL BE USED FOR THIS PROJECT:

- |        |        |        |
|--------|--------|--------|
| TSC2-3 | SSP1-1 | TCS5-1 |
| GMSI-1 | SSA2-1 | TCS6-1 |
| PM1-1  | FGS2-1 | TCS7-1 |
| PM3-1  | PM6-1  |        |



**CONTROL SURVEY DATA**

PERMANENT BENCHMARK REFERENCES:  
CP#77 - CHISLED X SET SW OF THE INTERSECTION OF S. 87TH E PL. AND S 89TH E. AVE.  
N= 398504.250  
E= 2595609.300  
ELEV.= 711.910'

CP#67 - IRON PIN SET SE OF THE INTERSECTION OF E. 60TH ST. S. AND S 89TH E. AVE.  
N= 398753.470  
E= 2595689.070  
ELEV.= 712.240'

1. HORIZONTAL CONTROL:  
A. HORIZONTAL CONTROL FOR THIS SURVEY IS THE NAD83(1993) OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE.  
B. ACCURACY - 3RD ORDER OR BETTER.

2. BEARINGS:  
THE BEARINGS SHOWN HEREIN OR HEREON ARE "GRID" BEARINGS DERIVED FROM NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL.

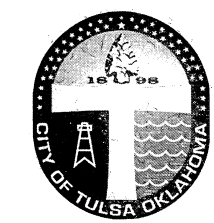
3. VERTICAL CONTROL:  
A. LEVEL DATUM IS MEAN SEA LEVEL DATUM OF (NGS) NAVD 1988.  
B. ACCURACY - 3RD ORDER OR BETTER.

THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS.

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

CITY OF TULSA  
Population 400,669 (2018)  
ENTIRE PROJECT IS WITHIN THE CORPORATE AND URBAN LIMITS OF THE CITY OF TULSA

T. 19 N.  
T. 18 N.  
N.T.S.

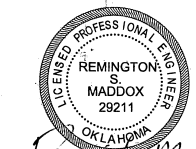


APPROVED BY  
*[Signature]*  
CITY ENGINEER  
ADVERTISEMENT DATE: 05.15.20

05.07.20  
DATE

PREPARED AND SUBMITTED BY

**POE & ASSOCIATES INC.**  
4606 S. GARNETT RD., STE. 600  
TULSA, OK 74146 (918) 665-8800  
FAX: (918) 665-6076



*[Signature]*  
REMINGTON S. MADDOX  
REGISTERED P.E. NO. 29211

3/24/2020  
DATE

SUMMARY OF BASE BID QUANTITIES table with columns: ITEM, SPEC. NO., DESCRIPTION, PAY ITEM NOTES, UNIT, QUANTITY

PAY ITEM NOTES - PAVING (version 11/14/2018)

PAY ITEM NOTES - PAVING continued

SURFACING / STRUCTURES (S1 - S21)
S-1: TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.

REMOVAL / ADJUSTMENT (R1 - R6)
R-1: WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.

EARTHWORK / EROSION CONTROL / SITE PREPARATION (E1 - E11)
E-1: NOT USED
E-2: NOT USED
E-3: THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY.

A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;
B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;

PAY ITEM NOTES - PAVING continued

DRAINAGE (D1 - D15)
D-1: THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS. 752, 753, 754, 761, 762, 769A, 769B AND 775.
D-2: THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.

E-10: THE PAY ITEM FOR SOLID SLAB SODDING INCLUDES QUANTITIES FOR PLACEMENT AND COMPACTION OF SUITABLE BACKFILL AND SOD AT EXISTING GRASS AREAS WHICH MAY BE DAMAGED DURING CONSTRUCTION OF CURBS, SIDEWALKS, DRIVEWAYS, AND OTHER MISCELLANEOUS ITEMS.

GENERAL (G1 - G10)
G-1: LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.
G-2: MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.

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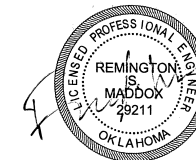


Table with columns: REVISION, BY, DATE, PLAN SCALE, DRAWN, DESIGNED, SURVEY, PROJ. MGR., LEAD ENGR., FIELD MGR., RECOMMENDED, DESIGN MANAGER

PAY QUANTITIES & NOTES (PAVING)
ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

**GENERAL CONSTRUCTION NOTES**

(version 2/8/2017)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCI/VERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
18. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7814 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

**GENERAL CONSTRUCTION NOTES**

continued

22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.
27. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
30. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
31. ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT STATIONING AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH CITY OF TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.
33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
34. ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS.
35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DICOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.

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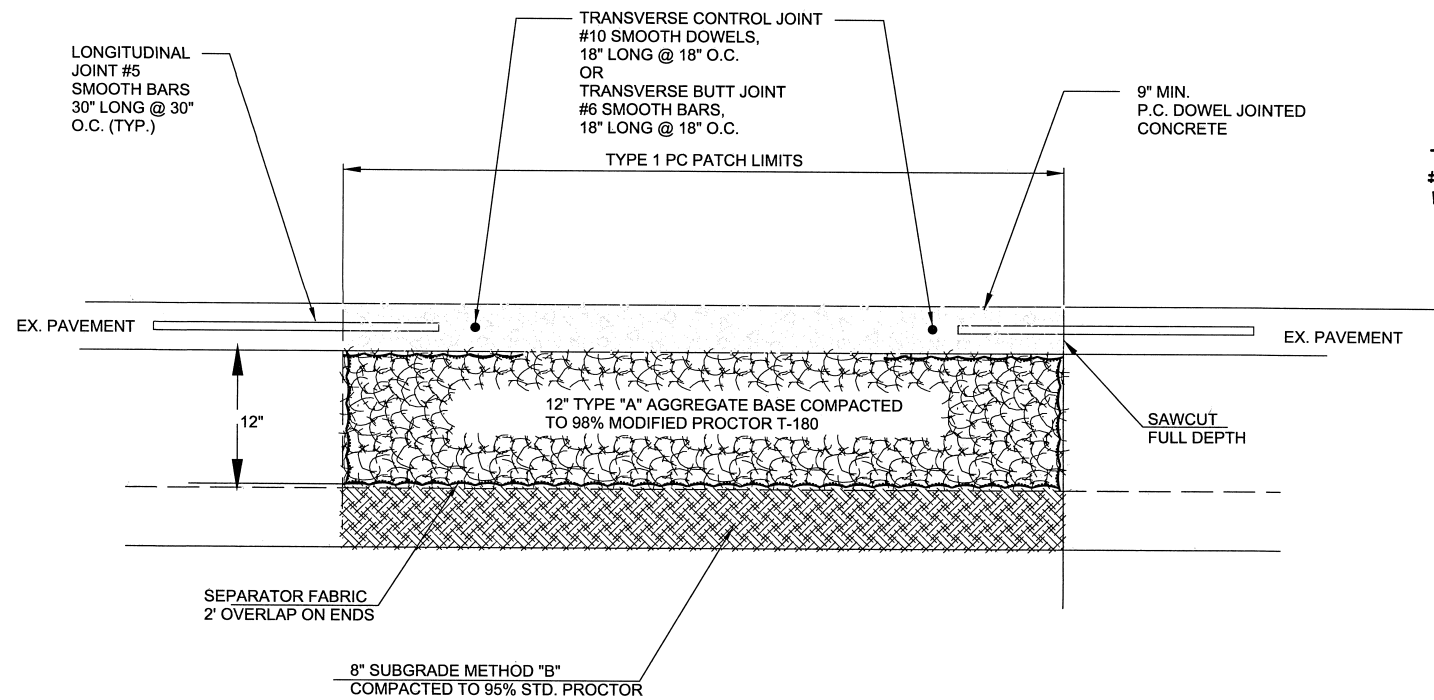
**GENERAL CONSTRUCTION NOTES**

ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

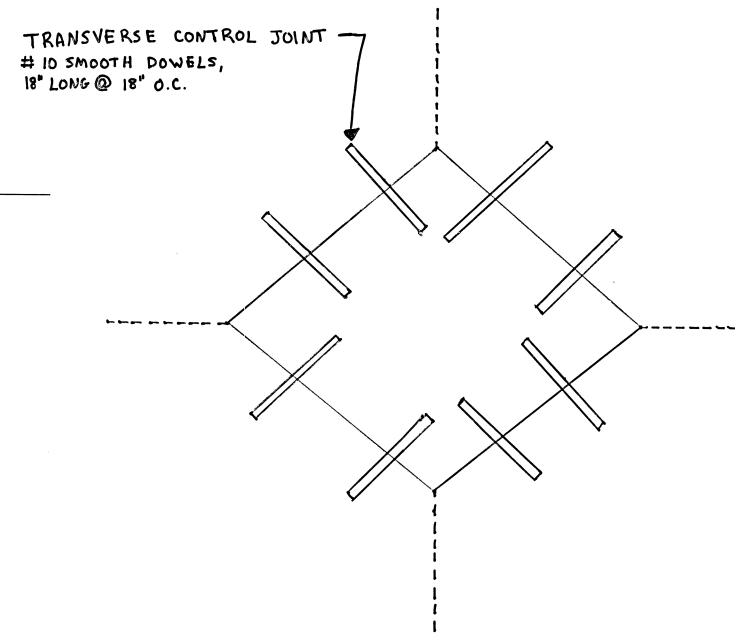
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
Tulsa, Oklahoma

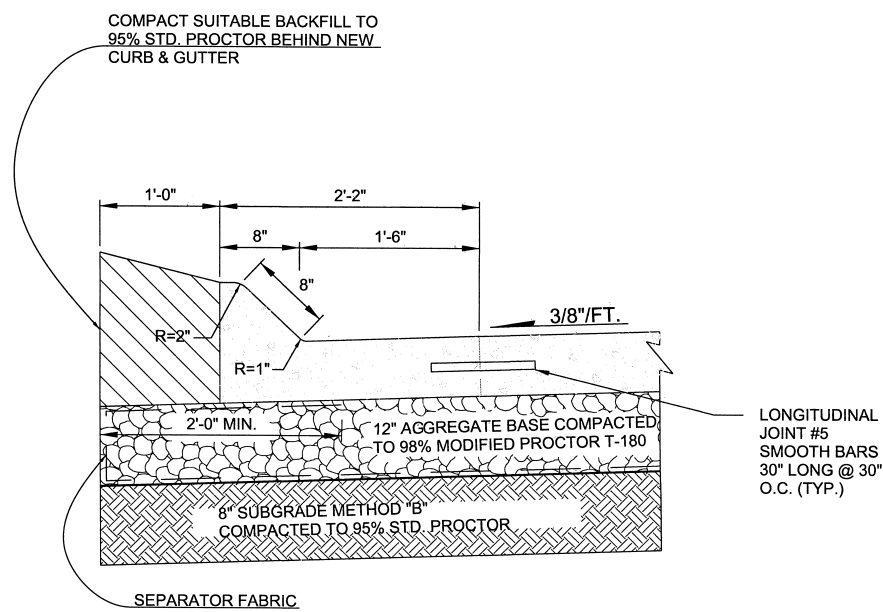
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			HORIZONTAL:	PROJ. MGR.			
			1" = N/A	LEAD ENGR.		3/20	
			VERTICAL:	FIELD MGR.		4/20	
			1" = N/A	RECOMMENDED:		4-20	
				DESIGN MANAGER			
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			ATLAS PAGE NO: 558, 658				SHEET 3 OF 30 SHEETS



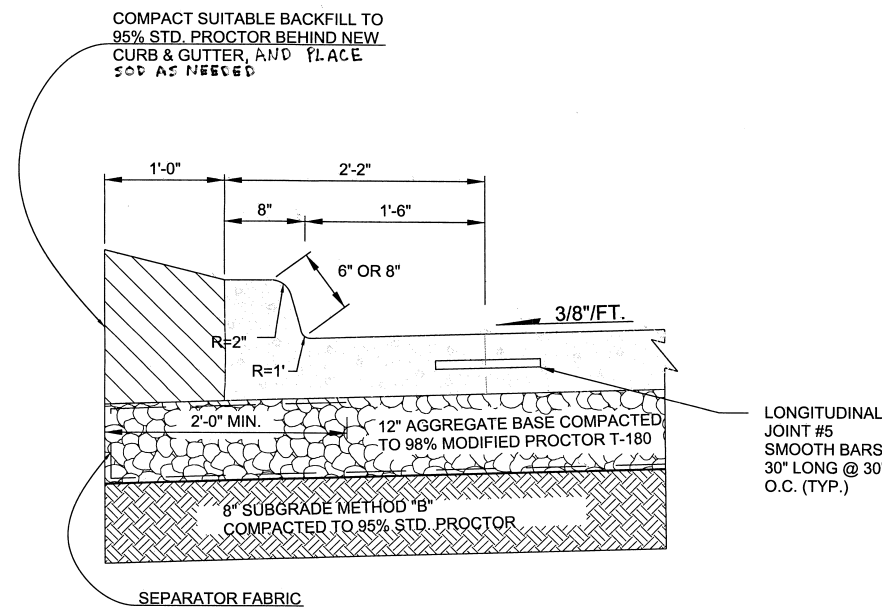
FULL DEPTH PCC PATCH DETAIL



TYPICAL CORNER REPAIR

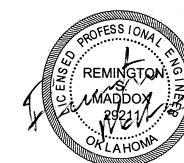


8" MOUNTABLE CURB & GUTTER



6" OR 8" BARRIER CURB & GUTTER

DETAIL SHEET					
ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD					
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT					
PLANS AND ESTIMATES PREPARED BY: <b>POE &amp; ASSOCIATES INC.</b> Tulsa, Oklahoma					
REVISION	BY	DATE	PLAN SCALE:	DRAWN	BKN
			1" = N/A	DESIGNED	RSM
			PROFILE SCALE:	4/2019	
			HORIZONTAL:	4/2019	
			1" = N/A	PROJ. MGR.	
			VERTICAL:	LEAD ENGR.	D 3/20
			1" = N/A	FIELD MGR.	2/4/20
				RECOMMENDED:	HAS 4/20
				DESIGN MANAGER	
			FILE:	H:1303859-9 DRAWINGDetails	
			ATLAS PAGE NO.:	599, 658	
			APPROVED:	DATE: 05-15-20	
				SHEET 4 OF 30 SHEETS	




SUMMARY OF PAVING QUANTITIES


P&P SHEET NO.	STREET NAME	202(A)	303	310(B)	325	415	609(B)	609(B)	609(B)	611(G)	612(A)	612(C)	855(A)	855(B)	SPEC.	SPEC.
		UNCLASSIFIED EXCAVATION	AGGREGATE BASE-TYPE A	SUBGRADE, METHOD B	SEPARATOR FABRIC	CONCRETE JOINT SEALING	COMBINED CURB AND GUTTER (8" BARRIER)	COMBINED CURB AND GUTTER (8" MOUNTABLE)	COMBINED CURB AND GUTTER (6" BARRIER)	INLET, CICI DESIGN 2(STD) COMPLETE IN PLACE	MANHOLE ADJUST TO GRADE (PUBLIC)	INLET ADJUST TO GRADE	TRAFFIC STRIPE 4" (PLASTIC)	TRAFFIC STRIPE (PLASTIC) (ARROWS)	PATCHING PC TYPE "1" (FULL DEPTH)	QUICK SET FLOWABLE FILL
		CY	CY	SY	SY	LF	LF	LF	LF	EA	EA	EA	LF	EA	CY	CY
1	E. 71st St. (W. of S. Memorial Dr.)	210	183	629	835	6,400	5	120	-	-	-	-	1,300	9	120	21
2	E. 71st St.	101	91	304	395	5,100	-	-	-	2	-	-	1,450	6	63	10
3	E. 71st St.	380	342	1,140	1,408	5,400	5	-	136	2	1	-	1,050	2	225	38
4	S. 85th E. Ave. / E. 71st St.	323	291	969	1,218	5,400	46	-	88	-	-	-	2,210	4	190	32
5	E. 71st St.	374	337	1,123	1,413	5,300	5	-	87	1	1	-	900	2	226	37
6	E. 71st St.	320	288	961	1,186	5,400	-	-	116	-	-	-	800	2	190	32
7	S. 89th E. Ave. / E. 71st St.	202	182	607	732	5,800	-	-	104	-	-	-	2,760	4	117	20
8	E. 71st St.	151	135	452	611	5,700	163	8	-	-	-	-	850	4	79	15
9	E. 71st St.	211	189	632	857	5,600	189	65	-	-	-	-	1,200	2	109	21
10	S. 92nd E. Ave. / E. 71st St.	220	198	660	890	5,700	173	55	-	-	1	1	3,050	2	117	22
11	E. 71st St.	194	175	583	778	5,700	116	26	-	-	-	1	850	4	109	19
12	E. 71st St.	318	286	954	1,272	5,700	205	21	-	-	-	1	1,150	3	178	32
13	E. 71st St. / S. Mingo Rd.	105	95	316	420	2,800	29	35	-	-	-	-	1,180	4	60	11
14	S. Memorial Dr. (So. of E. 71st St.)	127	114	380	502	4,000	-	55	-	1	-	-	950	4	74	13
15	S. Memorial Dr. / E. 71st St.	600	540	1,799	2,353	7,900	20	80	-	1	-	-	5,400	6	366	60
16	S. Memorial Dr. (No. of E. 71st St.)	870	783	2,611	3,446	5,400	50	316	-	2	-	-	1,050	4	512	87
TOTAL		4,707	4,236	14,121	18,316	87,300	1,006	781	531	9	3	3	26,150	62	2,736	470

SUMMARY SHEET (1)  
PAVING SUMMARY

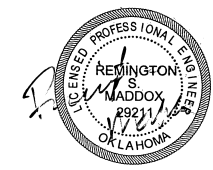
ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = N/A	DESIGNED	RSM	4/2019	 CITY ENGINEER DATE: 05-15-20 SHEET 5 OF 30 SHEETS
PROFILE SCALE:	SURVEY			
HORIZONTAL:	PROJ. MGR.			
VERTICAL:	LEAD ENGR.			
1" = N/A	FIELD MGR.			
	RECOMMENDED:			
	DESIGN MANAGER			

FILE: H:\303859-9 DRAWING\Summary Sheets  
ATLAS PAGE NO: 559, 658



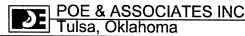
REVISION	BY	DATE




SUMMARY OF DRAINAGE QUANTITIES											
STRUCTURE NO. (UPSTREAM)	ALIGNMENT	STATION	OFFSET	SIDE	DESCRIPTION	NORTHING	EASTING	MANHOLES	INLETS		STRUCTURE NO. (UPSTREAM)
								ADJUST TO GRADE	CICI-2	ADJUST TO GRADE	
								612(A)	611(G)	612(C)	
								EA.	EA.	EA.	
A-1	71ST ST	107+32.49	-52.00	LT	INLET, CICIPDES 2	393028.81	2593298.14		1		A-1
A-2	71ST ST	107+39.61	49.00	RT	INLET, CICIPDES 2	392927.74	2593307.85		1		A-2
A-3	71ST ST	112+51.96	-52.00	LT	INLET, CICIPDES 2	393042.11	2593817.43		1		A-3
A-4	71ST ST	112+56.44	48.00	RT	INLET, CICIPDES 2	392941.60	2593824.50		1		A-4
A-5	71ST ST	123+66.67	-53.38	LT	INLET, CICIPDES 2	393071.77	2594931.75		1		A-5
A-6	71ST ST	145+65.35	43.33	RT	INLET, CICIPDES 2(B)	393031.47	2597132.19			1	A-6
A-7	71ST ST	150+70.44	-48.26	LT	INLET, CICIPDES 2(D)	393135.98	2597634.76			1	A-7
A-8	71ST ST	154+27.87	-47.68	LT	INLET, CICIPDES 2(A)	393144.57	2597992.09			1	A-8
A-9	MEMORIAL DR	202+99.78	66.81	RT	INLET, CICIPDES 2	392773.95	2593236.96		1		A-9
A-10	MEMORIAL DR	206+22.72	-60.57	LT	INLET, CICIPDES 2	393094.86	2593104.55		1		A-10
A-11	MEMORIAL DR	207+66.17	50.54	RT	INLET, CICIPDES 2	393240.03	2593213.41		1		A-11
A-12	MEMORIAL DR	209+64.82	48.86	RT	INLET, CICIPDES 2	393438.46	2593208.61		1		A-12
MH-1	71ST ST	115+14.23	-10.49	LT	SEWER HOUSE CONNECTIONS MH	393007.04	2594080.69	1			MH-1
MH-2	71ST ST	123+79.97	39.43	RT	STORM MH	392979.33	2594947.42	1			MH-2
MH-3	71ST ST	143+36.65	-2.96	LT	STORM MH	393071.88	2596902.38	1			MH-3
<b>TOTAL</b>								<b>3</b>	<b>9</b>	<b>3</b>	<b>TOTAL</b>

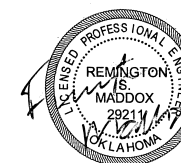
**SUMMARY SHEET (2)**  
DRAINAGE SUMMARY

ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 **POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

REVISION	BY	DATE	PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
			1" = N/A	DESIGNED	RSM	4/2019	 CITY ENGINEER DATE: 05.15.20
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.		3/20	
				FIELD MGR.		4/20	
			VERTICAL:	RECOMMENDED:			
			1" = N/A	DESIGN MANAGER			
			FILE: H:\303859-9 DRAWING Summary Sheets				
			ATLAS PAGE NO: 559, 658				SHEET 6 OF 30 SHEETS



**SIGN SUMMARY**

SIGN NO.	STREET NAME	SIGN TYPE	EXISTING		Description	PROPOSED						SIGN STATUS	
			BASELINE STATION	OFFSET		SIGN AREA 850[A]	2"	1 3/4"	BASELINE STATION	OFFSET	SIGN DIMENSION		
						S.F.	L.F.	L.F.					
1	E. 71ST ST	R4-7, R3-8U	100+34	2.80	RT KEEP RIGHT, U-TURN ONLY	12	3	12	100+34	2.80	RT	36" X 48"	REMOVE, NEW
2		R3-8U	101+47	3.00	RT U-TURN ONLY	12	3	12	101+47	3.00	RT	36" X 48"	NEW
3		R2-1(45)	102+08	60.00	LT SPEED LIMIT (45 MPH)	5	3	10.5	102+08	60.00	LT	24" X 30"	NEW
4		R3-5R	103+05	65.00	RT RIGHT TURN ONLY	7.5	3	11	103+05	65.00	RT	30" X 36"	NEW
5		SPECIAL	103+38	6.00	LT TULSA TRANSIT BUS STOP (REUSE)		3	9	103+38	6.00	LT		REUSE
6		R3-5R	104+58	65.00	RT RIGHT TURN ONLY	7.5	3	11	104+58	65.00	RT	30" X 36"	NEW
7		R10-5	105+17	11.30	LT LEFT ON GREEN ARROW ONLY	5	3	10.5	105+17	11.30	LT	24" X 30"	NEW
8		W12-1	105+23	51.50	RT DOUBLE ARROW	6.25	3	10.5	105+23	51.50	RT	30" X 30"	NEW
9		R1-2	105+22	78.00	RT YIELD	3.9	3	11	105+22	78.00	RT	36" X 36" X 36"	NEW
10		COT 608	105+42	37.00	LT S MEMORIAL DR 7100	14			105+42	37.00	LT	24" X 84"	NEW
11		SPECIAL	105+42	22.00	LT DOUBLE LEFT TURN ONLY	6.25			105+42	22.00	LT	30" X 30"	NEW
12		COT 608	105+44	55.00	RT E 71ST ST 8100	2.25			105+44	55.00	RT	9" X 36"	NEW
13		COT 608	105+70	55.00	RT E 71ST ST 8100	10			105+70	55.00	RT	24" X 60"	NEW
14		SPECIAL	105+88	55.00	RT DOUBLE LEFT TURN ONLY	6.25			105+88	55.00	RT	30" X 30"	NEW
15		SPECIAL	106+15	86.00	LT DOUBLE LEFT TURN ONLY	6.25			106+15	86.00	LT	30" X 30"	NEW
16		COT 608	106+31	86.00	LT E 71ST ST 8100	10			106+31	86.00	LT	24" X 60"	NEW
17		COT 608	106+61	86.00	LT E 71ST ST 8100	2.25			106+61	86.00	LT	9" X 36"	NEW
18		SPECIAL	106+65	14.00	RT DOUBLE LEFT TURN ONLY	6.25			106+65	14.00	RT	30" X 30"	NEW
19		COT 608	106+65	35.00	RT S MEMORIAL DR 7100	14			106+65	35.00	RT	24" X 84"	NEW
20		R10-5	106+89	7.83	RT LEFT ON GREEN ARROW ONLY	5	3	10.5	106+89	7.83	RT	24" X 30"	NEW
21		R2-1(40)	110+65	55.00	RT SPEED LIMIT (40 MPH)	5	3	10.5	110+65	55.00	RT	24" X 30"	NEW
22		R3-4, R4-7	114+07	6.50	LT NO U TURN, KEEP RIGHT	4	3	10.5	114+07	6.50	LT	24" X 24"	REMOVE, NEW
23		R4-7	114+49	65.00	LT KEEP RIGHT								REMOVE
24		R4-7	115+12	4.50	RT KEEP RIGHT								REMOVE
25		SPECIAL	115+22	4.50	RT UP WITH TREES (REUSE)		3	8	115+22	4.50	RT		REUSE
26		R4-7	117+52	10.00	LT KEEP RIGHT								REMOVE
27		COT 608	117+62	39.00	LT S 85TH E AV	12			117+62	39.00	LT	24" X 72"	NEW
28		R10-12	117+62	23.00	LT LEFT TURN YIELD ON GREEN	5			117+62	23.00	LT	24" X 30"	NEW
29		COT 608	117+86	58.00	RT E 71ST ST 8500	2.25			117+86	58.00	RT	9" X 36"	NEW
30		COT 608	118+47	35.00	RT S 85TH E AV	12			118+47	35.00	RT	24" X 72"	NEW
31		R3-2	118+46	7.00	RT NO LEFT TURN	4	3	10	118+46	7.00	RT	24" X 24"	NEW
32		SPECIAL	119+06	55.00	RT TULSA TRANSIT BUS STOP (REUSE)		3	9	119+06	55.00	RT		REUSE
33		R4-7	124+48	12.00	LT KEEP RIGHT				124+48	12.00	LT		REMOVE
34		R1-1	124+50	65.00	LT STOP	5.18	3	10.5	124+50	65.00	LT	30" X 30"	NEW
35		R4-7	125+57	9.00	RT KEEP RIGHT								REMOVE
36		SPECIAL	126+62	54.00	RT TULSA TRANSIT BUS STOP (REUSE)		3	9	126+62	54.00	RT		REUSE
37		R1-2	130+81	87.00	LT YIELD	3.9	3	11	130+81	87.00	LT	36" X 36" X 36"	NEW
38		R10-12	131+10	16.00	LT LEFT TURN YIELD ON GREEN	5			131+10	16.00	LT	24" X 30"	NEW
39		COT 608	131+10	34.00	LT S 89TH E AV 7100 (PRIVATE)	12			131+10	34.00	LT	24" X 72"	NEW
40		SPECIAL	131+10	62.00	LT ADDITIONAL MALL ENTRANCES (REUSE)				131+10	62.00	LT		REUSE
41		M6-3	131+10	62.00	LT DIRECTIONAL ARROW	2.19			131+10	62.00	LT	21" X 15"	NEW
42		R4-7	131+24	9.00	LT KEEP RIGHT								REMOVE
43		R3-5(L)	131+46	56.00	RT LEFT TURN ONLY	7.5			131+46	56.00	RT	30" X 36"	NEW
44		COT 608	131+52	56.00	RT E 71ST ST 8900	10			131+52	56.00	RT	24" X 60"	NEW
45		R3-5(L)	131+63	56.00	RT LEFT TURN ONLY	7.5			131+63	56.00	RT	30" X 36"	NEW
46		COT 608	132+00	95.00	LT E 71ST ST 8900	10			132+00	95.00	LT	24" X 60"	NEW
47		COT 608	132+10	95.00	LT E 71ST ST 8900	2.25			132+10	95.00	LT	9" X 36"	NEW
48		COT 608	132+34	32.00	RT S 89TH E AV 7100 (PRIVATE)	12			132+34	32.00	RT	24" X 72"	NEW
49		R10-12	132+34	15.00	RT LEFT TURN YIELD ON GREEN	5			132+34	15.00	RT	24" X 30"	NEW
50		R4-7	132+51	7.00	RT KEEP RIGHT								REMOVE

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**SUMMARY SHEET (3)**  
SIGN SUMMARY

ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

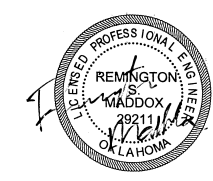
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

REVISION	BY	DATE

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = N/A	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.	D	3/20	CITY ENGINEER
1" = N/A	FIELD MGR.	W	4/20	
VERTICAL:	RECOMMENDED:	HAS	4/20	DATE: 05-15-20
1" = N/A	DESIGN MANAGER			SHEET 7 OF 30 SHEETS

FILE: H:\303859-9 DRAWING\Summary Sheets  
ATLAS PAGE NO: 559, 658



**SIGN SUMMARY**

SIGN NO.	STREET NAME	SIGN TYPE	EXISTING		Description	PROPOSED					SIGN STATUS		
			BASELINE STATION	OFFSET		SIGN AREA 850[A]	2"	1 3/4"	BASELINE STATION	OFFSET		SIGN DIMENSION	
						S.F.	L.F.	L.F.					
51		SPECIAL	132+60	62.00	LT SHOPPERS MAY ALSO USE NEXT 2 MALL ENTRANCES (REUSE)		3	18	132+60	62.00	LT	REUSE	
52		SPECIAL	133+50	52.00	RT TULSA TRANSIT BUS STOP (REUSE)		3	9	133+50	52.00	RT	REUSE	
53		R6-1R (2)	134+26	5.00	LT ONE WAY (2)	6	3	9	134+26	5.00	LT	36" X 12", 36" X 12"	NEW
54		R4-7	136+00	9.00	LT KEEP RIGHT							REMOVE	
55		R4-7	137+11	3.00	RT KEEP RIGHT							REMOVE	
56		R4-7	143+15	9.00	LT KEEP RIGHT							REMOVE	
57		R10-12	143+20	15.00	LT LEFT TURN YIELD ON GREEN	5			143+20	15.00	LT	24" X 30"	NEW
58		COT 608	143+20	36.00	LT DIRECTIONAL ARROW (L) S 92ND E AV	14			143+20	36.00	LT	24" X 84"	NEW
59		SPECIAL	143+20	62.00	LT MALL TRAFFIC USE RIGHT TWO LANES (REUSE)				143+20	62.00	LT		REUSE
60		COT 608	143+58	78.00	RT E 71ST ST 9200	10			143+58	78.00	RT	24" X 60"	NEW
61		R10-12	143+70	78.00	RT LEFT TURN YIELD ON GREEN	5			143+70	78.00	RT	24" X 30"	NEW
62		R10-12	143+83	79.00	LT LEFT TURN YIELD ON GREEN	5			143+83	79.00	LT	24" X 30"	NEW
63		COT 608	144+00	79.00	LT E 71ST ST 9200	10			144+00	79.00	LT	24" X 60"	NEW
64		R4-7	144+30	3.00	RT KEEP RIGHT							REMOVE	
65		R10-12	144+30	6.00	RT LEFT TURN YIELD ON GREEN	5			144+30	6.00	RT	24" X 30"	NEW
66		COT 608	144+30	25.00	RT S 92ND E AV DIRECTIONAL ARROW (R)	14			144+30	25.00	RT	24" X 84"	NEW
67		COT 608	144+30	54.00	RT E 71ST ST 9200	2.25			144+30	54.00	RT	9" X 36"	NEW
68		SPECIAL	144+47	47.00	RT TULSA TRANSIT BUS STOP (REUSE)		3	9	144+47	47.00	RT		REUSE
69		R4-7	148+05	9.00	LT KEEP RIGHT							REMOVE	
70		R4-7	148+93	4.00	RT KEEP RIGHT							REMOVE	
71		R4-7	152+36	8.00	LT KEEP RIGHT							REMOVE	
72		R4-7	153+50	4.00	RT KEEP RIGHT							REMOVE	
73		R6-1R	154+75	8.00	LT ONE WAY	3	3	9	154+75	8.00	LT	36" X 12"	NEW
74		R3-5R	155+12	47.00	RT RIGHT TURN ONLY	7.5	3	11	155+12	47.00	RT	30" X 36"	NEW
75		R2-1(40)	155+98	50.00	LT SPEED LIMIT (40MPH)	5	3	10.5	155+98	50.00	LT	24" X 30"	NEW
76		SPECIAL	156+47	50.00	LT TULSA TRANSIT BUS STOP (REUSE)		3	9	156+47	50.00	LT		REUSE
77		R3-5R	157+47	59.00	RT RIGHT TURN ONLY	7.5	3	11	157+47	59.00	RT	30" X 36"	NEW
78		R10-5	158+06	7.00	LT LEFT ON GREEN ARROW ONLY	5	3	10.5	158+06	7.00	LT	24" X 30"	NEW
79	S MEMORIAL DR.	SPECIAL	200+56	66.00	RT TULSA TRANSIT BUS STOP (REUSE)		3	9	200+56	66.00	RT		REUSE
80		R3-5R	201+21	64.00	RT RIGHT TURN ONLY	7.5	3	11	201+21	64.00	RT	30" X 36"	NEW
81		R3-5R	201+85	49.00	LT RIGHT TURN ONLY	7.5	3	11	201+85	49.00	LT	30" X 36"	NEW
82		R3-5R	202+00	49.00	LT RIGHT TURN ONLY	7.5	3	11	202+00	49.00	LT	30" X 36"	NEW
		R3-5R	203+64	72.00	RT RIGHT TURN ONLY	7.5	3	11	203+64	72.00	RT	30" X 36"	NEW
83		R10-5	204+18	12.00	LT LEFT ON GREEN ARROW ONLY	5	3	10.5	204+18	12.00	LT	24" X 30"	NEW
84		W12-1	204+27	58.00	RT DOUBLE ARROW	6.25	3	10.5	204+27	58.00	RT	30" X 30"	NEW
85		R1-2	204+38	103.00	RT YIELD	3.9	3	11	204+38	103.00	RT	36" X 36" X 36"	NEW
86		R1-2	205+68	89.00	LT YIELD	3.9	3	11	205+68	89.00	LT	36" X 36" X 36"	NEW
87		W12-1	205+81	51.00	LT DOUBLE ARROW	6.25	3	10.5	205+81	51.00	LT	30" X 30"	NEW
88		R10-5	205+83	12.00	RT LEFT ON GREEN ARROW ONLY	5	3	10.5	205+83	12.00	RT	24" X 30"	NEW
89		R3-5R	206+70	64.00	LT RIGHT TURN ONLY	7.5	3	11	206+70	64.00	LT	30" X 36"	NEW
90		R2-1(40)	209+10	57.00	RT SPEED LIMIT (40MPH)	5	3	10.5	209+10	57.00	RT	24" X 30"	NEW
91		R3-5R	209+18	60.00	LT RIGHT TURN ONLY	7.5	3	11	209+18	60.00	LT	30" X 36"	NEW
<b>TOTAL:</b>						<b>452.97</b>	<b>126</b>	<b>442</b>					

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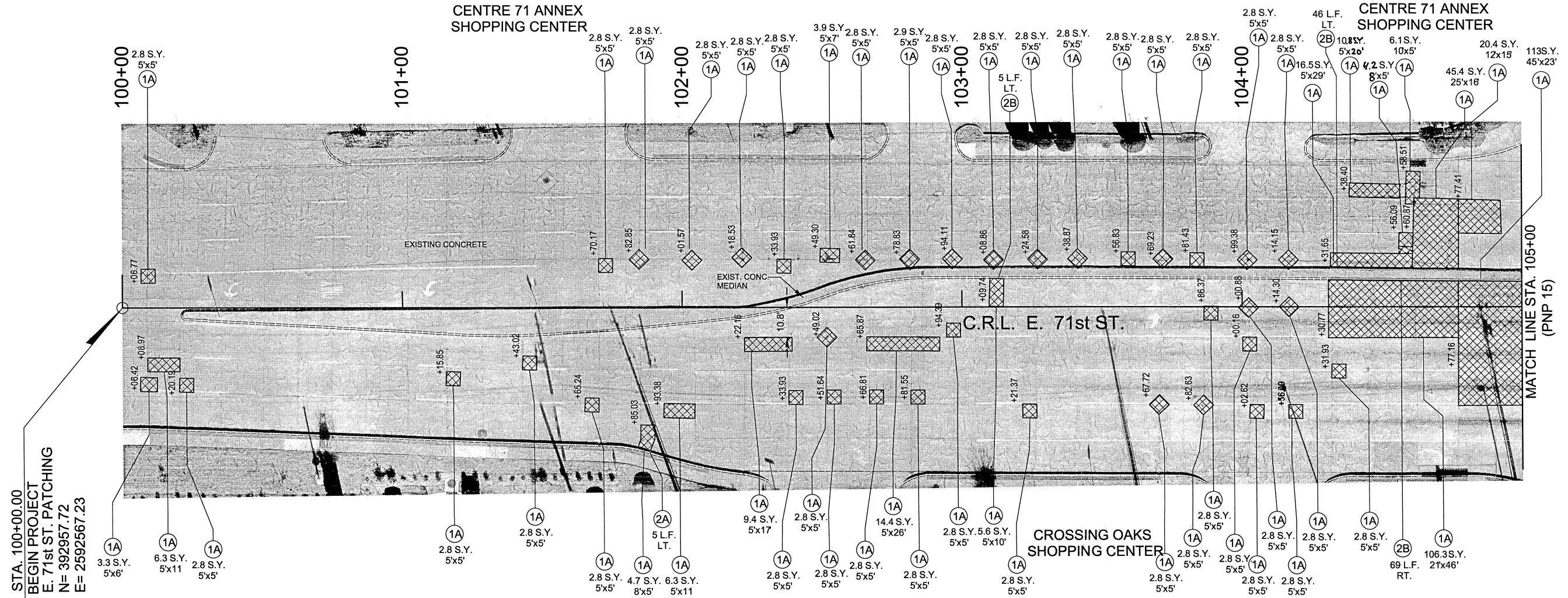


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			VERTICAL:	FIELD MGR.			
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FILE: H:\303859-9 DRAWING\Summary Sheets							DATE: 05.15.20
ATLAS PAGE NO: 559, 658							SHEET 8 OF 30 SHEETS

SUMMARY SHEET (4)  
SIGN SUMMARY (CONT'D)  
ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD  
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma



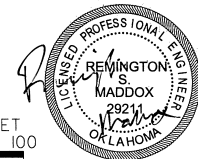
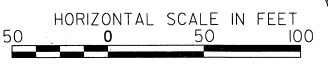


STA. 100+00.00  
 BEGIN PROJECT  
 E. 71st ST. PATCHING  
 N= 392957.72  
 E= 2592567.23

CL S. MEMORIAL DRIVE @ STA. 106+00

NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A)	FULL DEPTH PC CONCRETE PATCH
(2A)	CONSTRUCT 8" BARRIER CURB
(2B)	CONSTRUCT 8" MOUNTABLE CURB
(2C)	CONSTRUCT 6" BARRIER CURB
(4)	CONSTRUCT INLET
(8)	ADJUST MANHOLE TO GRADE
(X)	FULL DEPTH PC CONCRETE PATCH
(—)	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(9)	ADJUST INLET TO GRADE

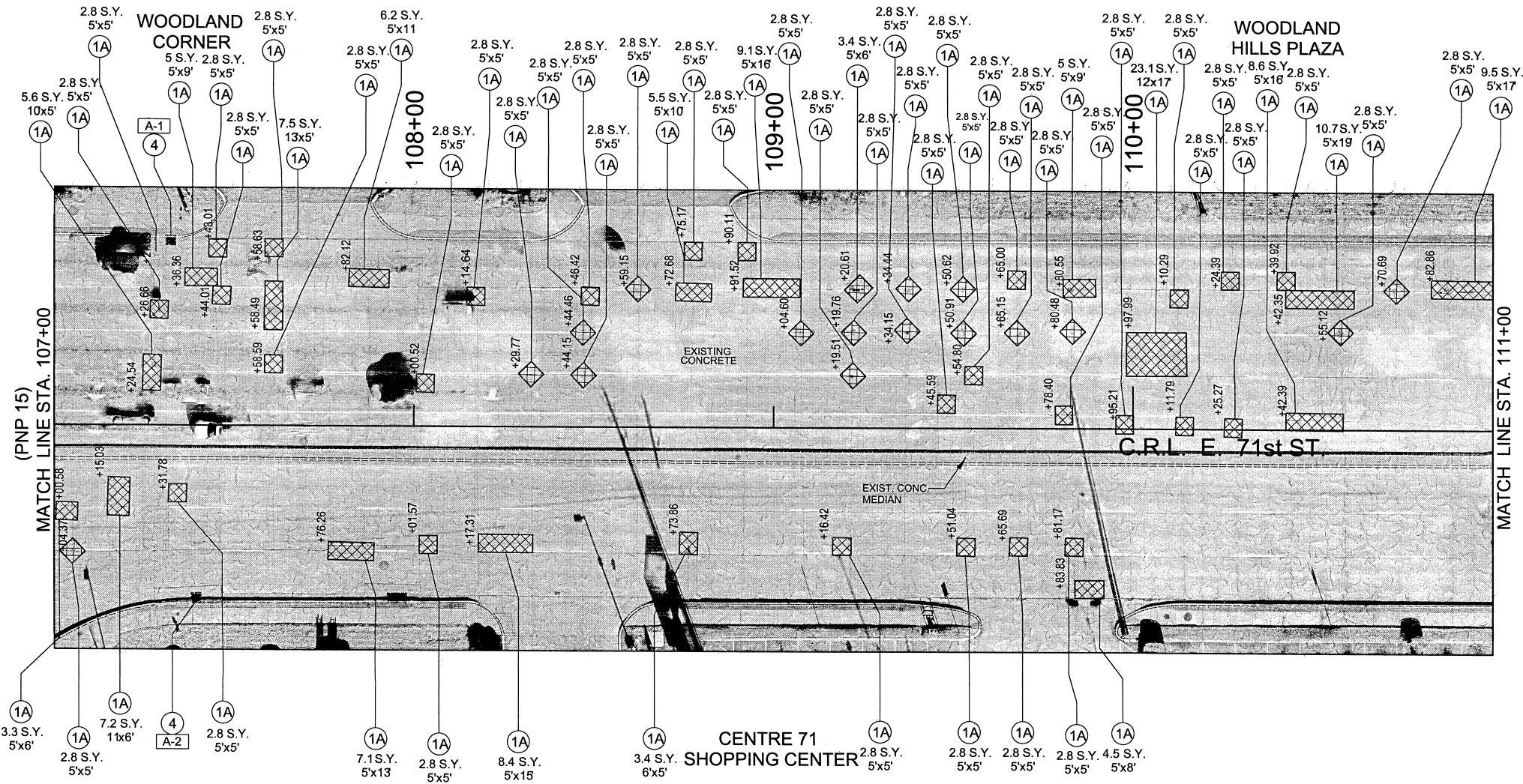


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			HORIZONTAL: <td>PROJ. MGR.</td> <td></td> <td></td> <td></td>	PROJ. MGR.			
			1" = 20'	LEAD ENGR.	D	3/20	
			VERTICAL: <td>FIELD MGR.</td> <td></td> <td></td> <td></td>	FIELD MGR.			
			1" = 5'	RECOMMENDED			
				DESIGN MANAGER	HB	4.20	
			FILE: H:\303859-9	DRAWING: 303859-9 PNP			DATE: 05.15.20
			ATLAS PAGE NO: 560, 659				SHEET 9 OF 30 SHEETS

PLAN & PROFILE (1)  
 E. 71ST ST. = STA. 100+00 TO STA. 105+00  
 ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
 S. MEMORIAL AVE. TO S. MINGO RD.  
 PROJECT NO. 144017-AF & BD  
 CITY OF TULSA, OKLAHOMA  
 ENGINEERING SERVICES DEPARTMENT

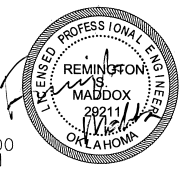
PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
 Tulsa, Oklahoma

CL S. MEMORIAL DRIVE @ STA. 106+00



NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A) FULL DEPTH PC CONCRETE PATCH	FULL DEPTH PC CONCRETE PATCH
(2A) CONSTRUCT 8" BARRIER CURB	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(2B) CONSTRUCT 8" MOUNTABLE CURB	
(2C) CONSTRUCT 6" BARRIER CURB	
(4) CONSTRUCT INLET	(9) ADJUST INLET TO GRADE
(8) ADJUST MANHOLE TO GRADE	



REVISION	BY	DATE

**PLAN & PROFILE (2)**  
E. 71ST ST. = STA. 107+00 TO STA. 111+00

ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

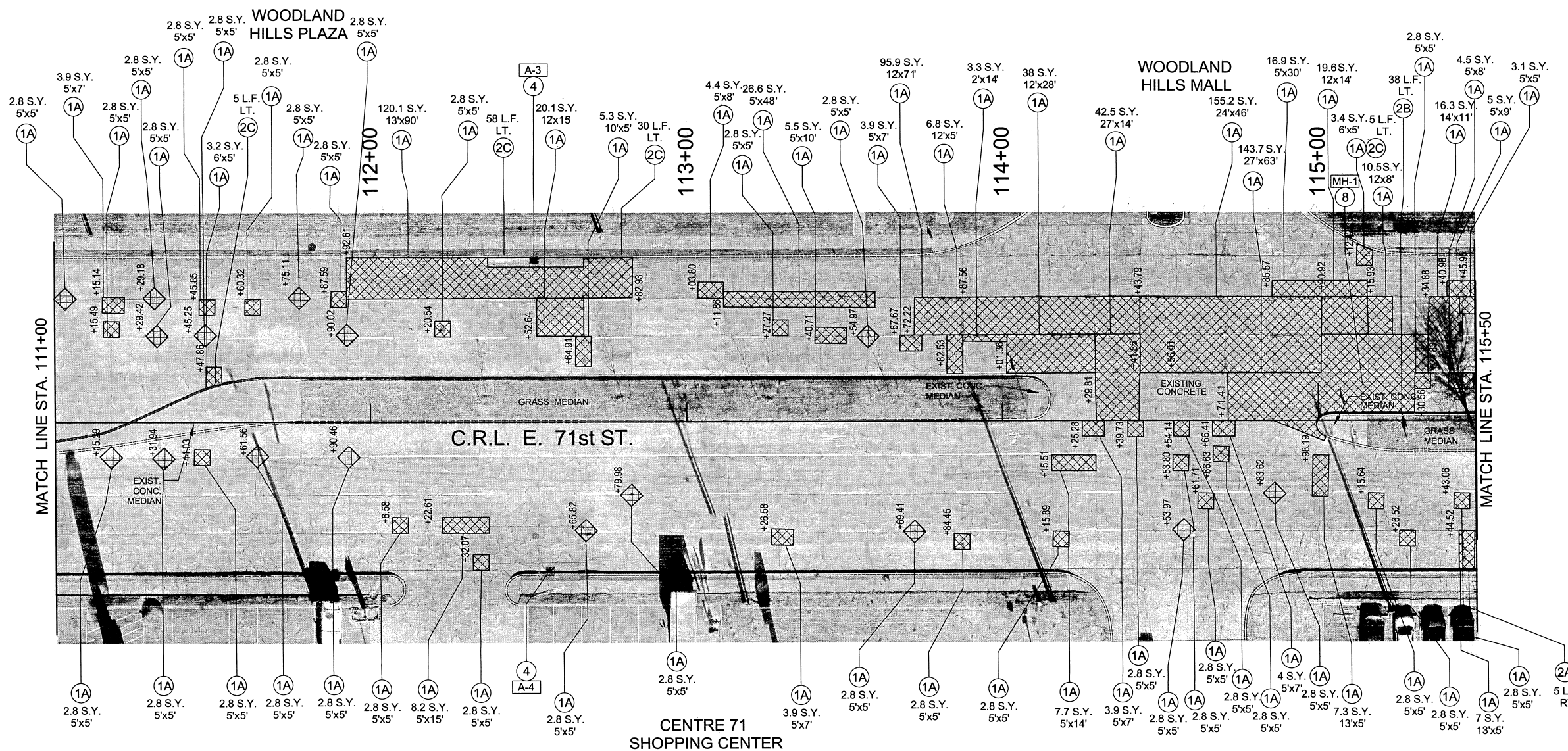
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
1" = 20'	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.		3/20	DATE: 05.15.20
1" = 20'	FIELD MGR.		4/10	
VERTICAL:	RECOMMENDED:			
1" = 5'	DESIGN MANAGER			

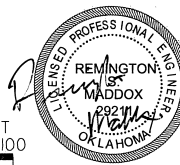
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ATLAS PAGE NO. 559, 658

SHEET 10 OF 30 SHEETS



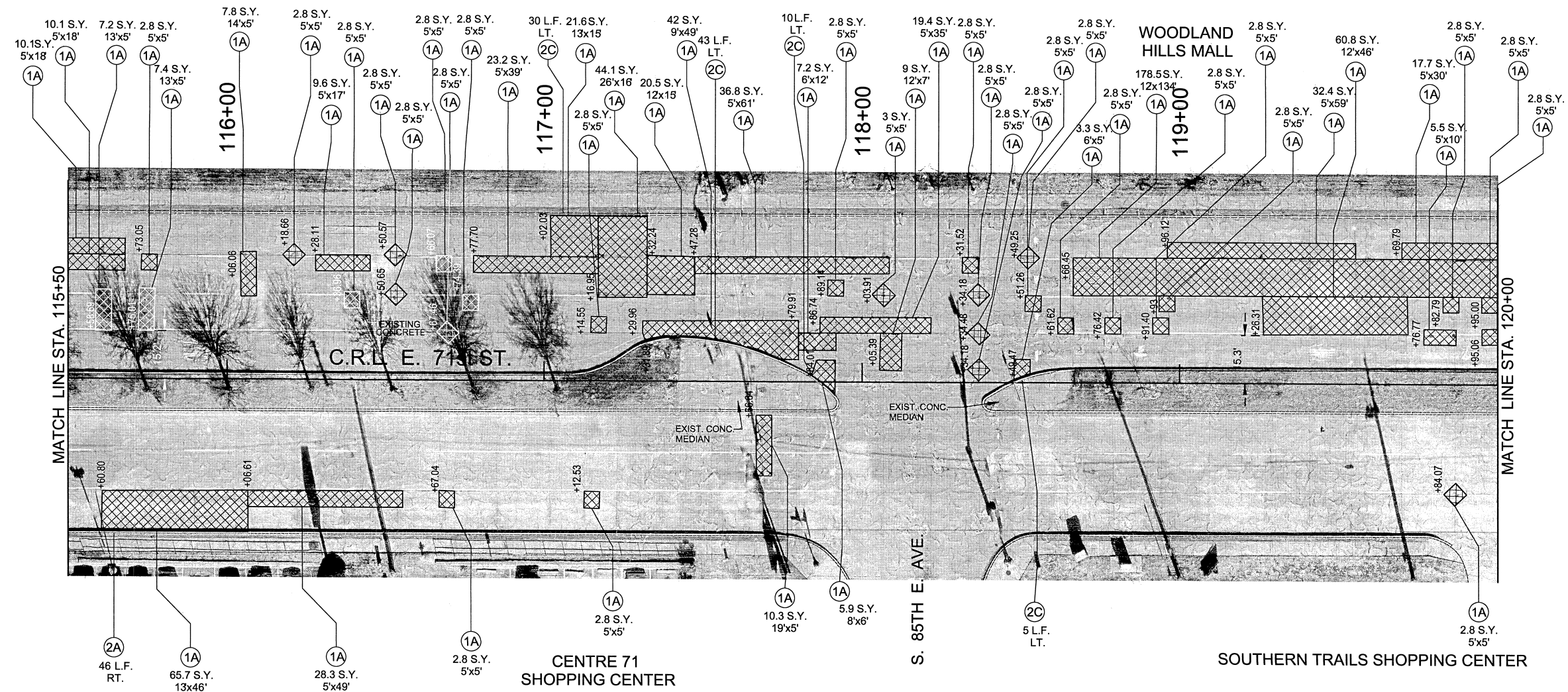
NOTE: REESTABLISH EXISTING JOINT PATTERNS

<b>1A</b>	FULL DEPTH PC CONCRETE PATCH		FULL DEPTH PC CONCRETE PATCH
<b>2A</b>	CONSTRUCT 8" BARRIER CURB		PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
<b>2B</b>	CONSTRUCT 8" MOUNTABLE CURB		ADJUST INLET TO GRADE
<b>2C</b>	CONSTRUCT 6" BARRIER CURB		
<b>4</b>	CONSTRUCT INLET		
<b>8</b>	ADJUST MANHOLE TO GRADE		



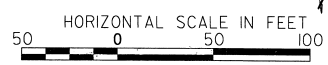
<b>PLAN &amp; PROFILE (3)</b> E. 71ST ST. = STA. 111+00 TO STA. 115+50 ARTERIAL STREET REHABILITATION E. 71ST ST. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: POE & ASSOCIATES INC. Tulsa, Oklahoma			
PLAN SCALE: 1" = 50' PROFILE SCALE: 1" = 20' HORIZONTAL: 1" = 5' VERTICAL: 1" = 5'	DRAWN DESIGNED SURVEY PROJ. MGR. LEAD ENGR. FIELD MGR. RECOMMENDED DESIGN MANAGER	BKN RSM 4/2019 3/20 4/20 HAS 4.20	APPROVED:  CITY ENGINEER DATE: 05-15-20 SHEET 11 OF 30 SHEETS
FILE: H:\303859-9 DRAWING: 303859-9 PNP ATLAS PAGE NO: 559, 658			

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NOTE: REESTABLISH EXISTING JOINT PATTERNS

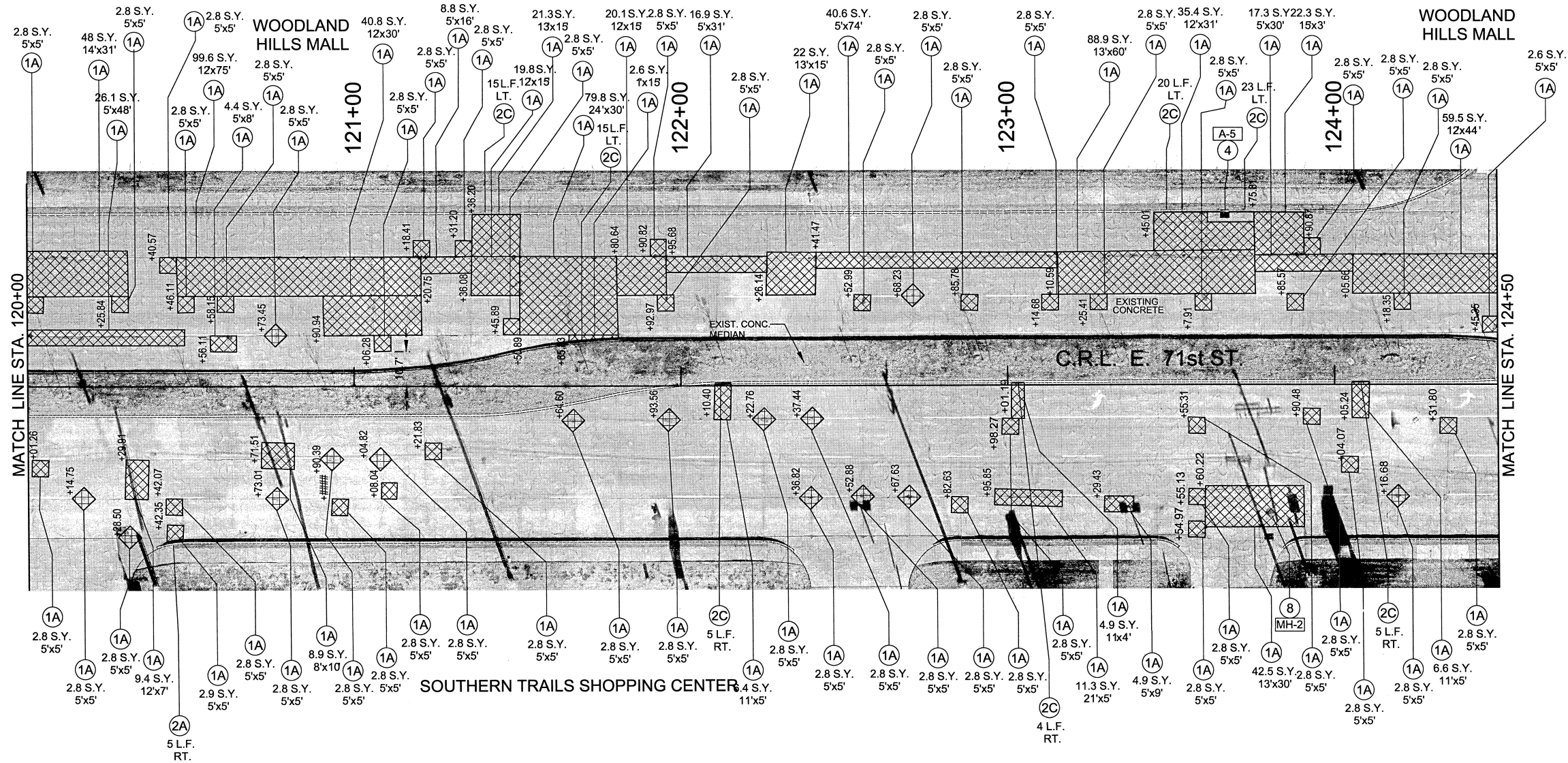
LEGEND	
①A	FULL DEPTH PC CONCRETE PATCH
②A	CONSTRUCT 8" BARRIER CURB
②B	CONSTRUCT 8" MOUNTABLE CURB
②C	CONSTRUCT 6" BARRIER CURB
④	CONSTRUCT INLET
⑧	ADJUST MANHOLE TO GRADE
	FULL DEPTH PC CONCRETE PATCH
	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
⑨	ADJUST INLET TO GRADE



REVISION	BY	DATE	PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
			1" = 50'	DESIGNED	RSM	4/2019	
			PROFILE SCALE:	SURVEY			
			HORIZONTAL:	PROJ. MGR.			
			1" = 20'	LEAD ENGR.	D	3/20	
			VERTICAL:	FIELD MGR.			
			1" = 5'	RECOMMENDED			
				DESIGN MANAGER			
			FILE: H:\303859-9	DRAWING: 303859-9 PNP			CITY ENGINEER
			ATLAS PAGE NO: 559, 658				DATE: 05-15-20

PLAN & PROFILE (4)  
E. 71ST ST. = STA. 115+50 TO STA. 120+00  
ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD  
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
Tulsa, Oklahoma



NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
1A	FULL DEPTH PC CONCRETE PATCH
2A	CONSTRUCT 8" BARRIER CURB
2B	CONSTRUCT 8" MOUNTABLE CURB
2C	CONSTRUCT 6" BARRIER CURB
4	CONSTRUCT INLET
8	ADJUST MANHOLE TO GRADE
9	ADJUST INLET TO GRADE
	FULL DEPTH PC CONCRETE PATCH
	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)

PRE-MYLAR  
PLANS  
NOV 2019

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



REVISION	BY	DATE

**PLAN & PROFILE (5)**  
E. 71ST ST. - STA. 120+00 TO STA. 124+50

ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

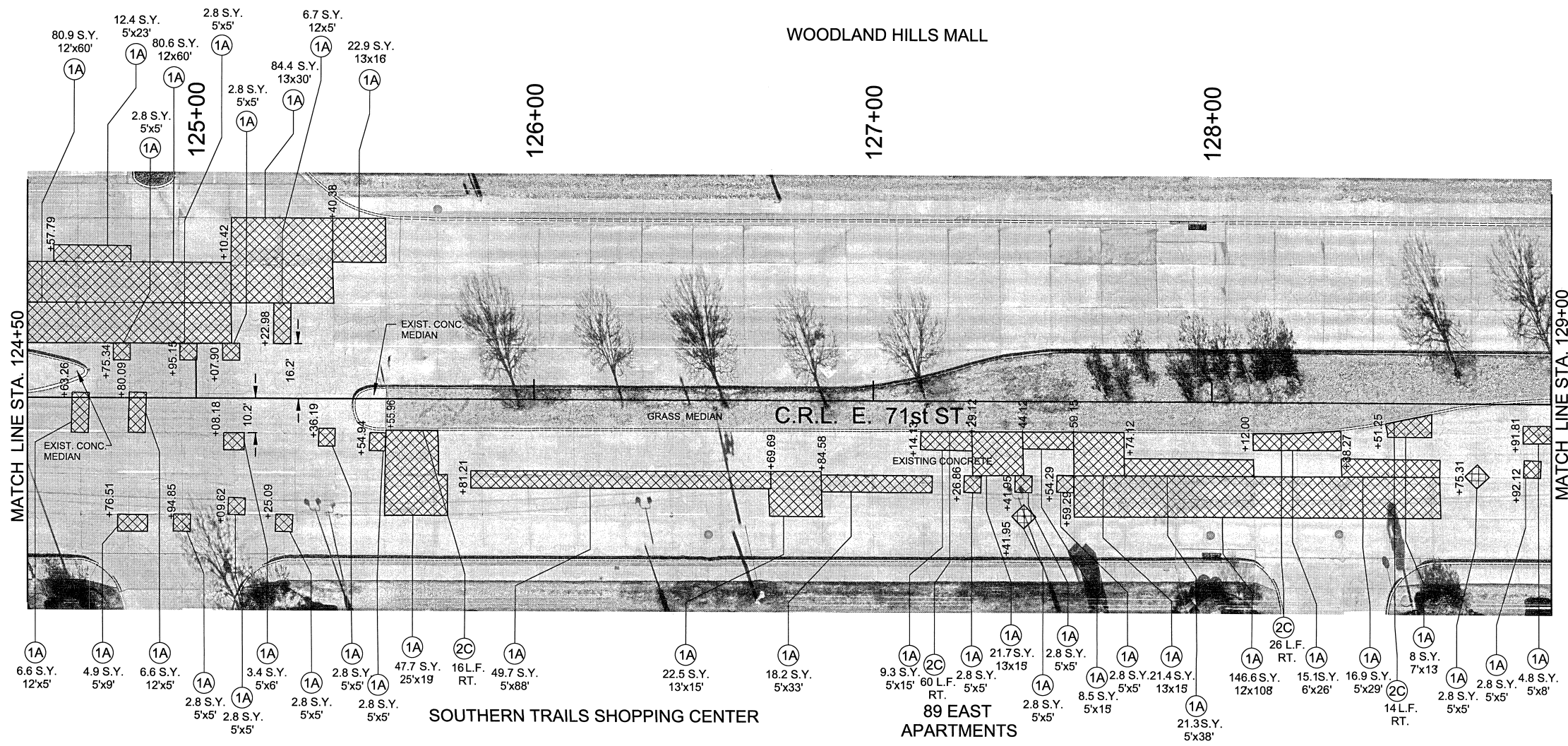
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1" = 20'	LEAD ENGR.			
VERTICAL:	FIELD MGR.			
1" = 5'	RECOMMENDED:			
	DESIGN MANAGER			

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ATLAS PAGE NO: 559, 658

DATE: 05.15.20  
SHEET 13 OF 30 SHEETS

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NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A) FULL DEPTH PC CONCRETE PATCH	FULL DEPTH PC CONCRETE PATCH
(2A) CONSTRUCT 8" BARRIER CURB	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(2B) CONSTRUCT 8" MOUNTABLE CURB	
(2C) CONSTRUCT 6" BARRIER CURB	
(4) CONSTRUCT INLET	(9) ADJUST INLET TO GRADE
(8) ADJUST MANHOLE TO GRADE	



REVISION	BY	DATE

**PLAN & PROFILE (6)**  
E. 71ST ST. = STA. 124+50 TO STA. 129+00

**ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD**

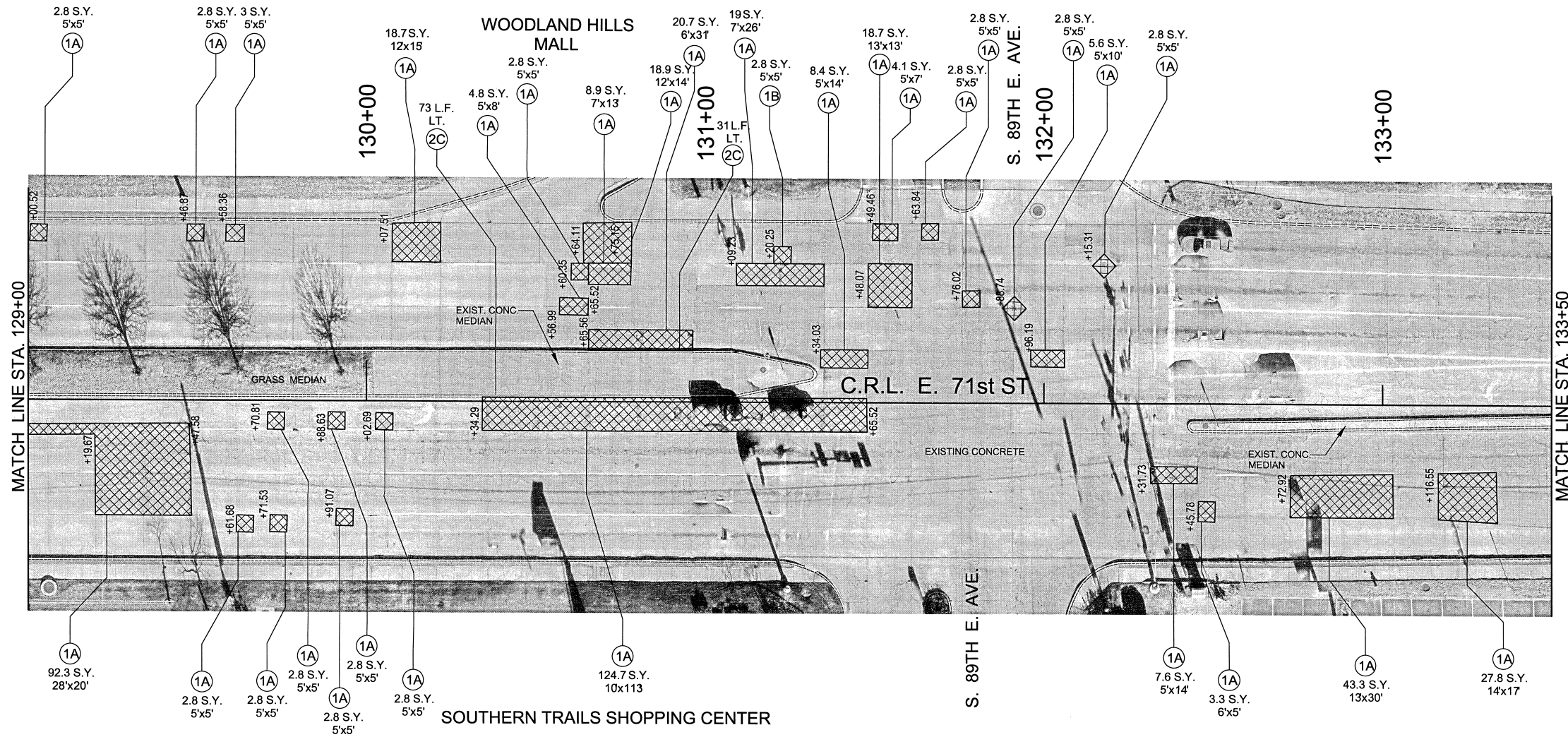
**CITY OF TULSA, OKLAHOMA**  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 **POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
HORIZONTAL:	PROJ. MGR.			
1" = 20'	LEAD ENGR.			
VERTICAL:	FIELD MGR.			
1" = 5'	RECOMMENDED:			
	DESIGN MANAGER			

FILE: H:\303859-9 DRAWING: 303859-9 PNP  
ATLAS PAGE NO: 559, 658

DATE: 05-15-20  
SHEET 14 OF 30 SHEETS



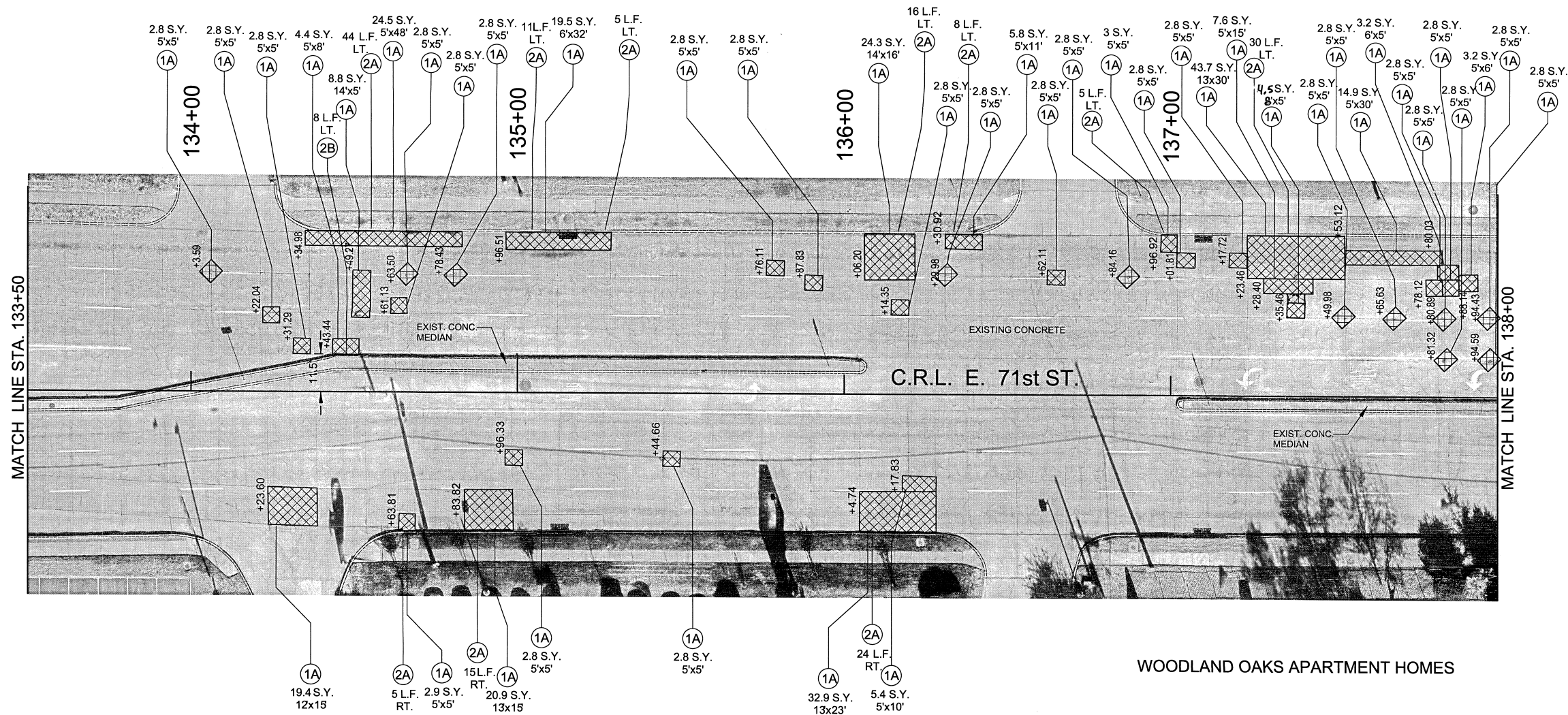
NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A) FULL DEPTH PC CONCRETE PATCH	FULL DEPTH PC CONCRETE PATCH
(2A) CONSTRUCT 8" BARRIER CURB	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(2B) CONSTRUCT 8" MOUNTABLE CURB	
(2C) CONSTRUCT 6" BARRIER CURB	
(4) CONSTRUCT INLET	
(8) ADJUST MANHOLE TO GRADE	
	(9) ADJUST INLET TO GRADE



REVISION	BY	DATE

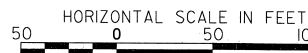
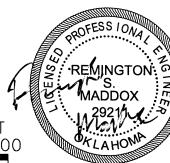
<b>PLAN &amp; PROFILE (7)</b>			
E. 71ST ST. = STA. 129+00 TO STA. 133+50			
ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:			
<b>POE &amp; ASSOCIATES INC.</b> Tulsa, Oklahoma			
PLAN SCALE:	DRAWN	BKN	4/2019
1" = 50'	DESIGNED	RSM	4/2019
	SURVEY		
PROFILE SCALE:	PROJ. MGR.		
HORIZONTAL:	LEAD ENGR.	(Signature)	3/20
1" = 20'	FIELD MGR.	(Signature)	2/20/18
VERTICAL:	RECOMMENDED:	(Signature)	4/20
1" = 5'	DESIGN MANAGER		
FILE: H:\303859-9	DRAWING: 303859-9 PNP	DATE: 05-15-20	
ATLAS PAGE NO: 559, 658		SHEET 15 OF 30 SHEETS	



WOODLAND OAKS APARTMENT HOMES

NOTE: REESTABLISH EXISTING JOINT PATTERNS

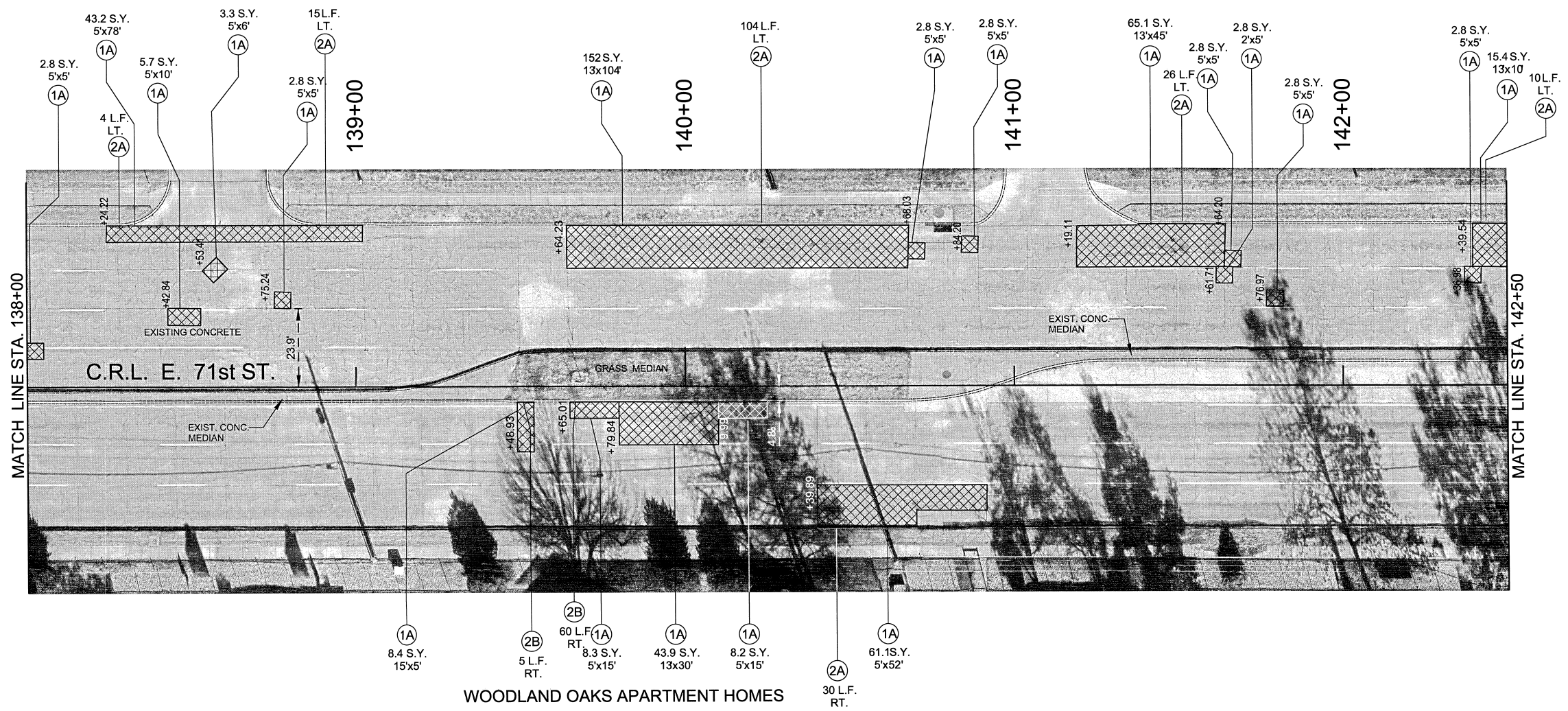
LEGEND	
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2A	CONSTRUCT 8" BARRIER CURB
2B	CONSTRUCT 8" MOUNTABLE CURB
2C	CONSTRUCT 6" BARRIER CURB
4	CONSTRUCT INLET
8	ADJUST MANHOLE TO GRADE
	FULL DEPTH PC CONCRETE PATCH
	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
9	ADJUST INLET TO GRADE



REVISION	BY	DATE

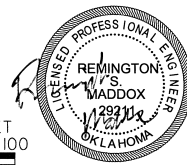
<b>PLAN &amp; PROFILE (8)</b>				
E. 71ST ST. = STA. 133+50 TO STA. 138+00				
ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY:				
POE & ASSOCIATES INC. Tulsa, Oklahoma				
PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
HORIZONTAL:	PROJ. MGR.			
1" = 20'	LEAD ENGR.	HAS	5/20	
VERTICAL:	FIELD MGR.	RSM	4/20	
1" = 5'	RECOMMENDED:	HAS	4/20	
	DESIGN MANAGER			CITY ENGINEER
FILE: H:\303859-9	DRAWING: 303859-9 PNP			DATE: 05-15-20
ATLAS PAGE NO: 559, 658				SHEET 16 OF 30 SHEETS





NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A)	FULL DEPTH PC CONCRETE PATCH
(2A)	CONSTRUCT 8" BARRIER CURB
(2B)	CONSTRUCT 8" MOUNTABLE CURB
(2C)	CONSTRUCT 6" BARRIER CURB
(4)	CONSTRUCT INLET
(8)	ADJUST MANHOLE TO GRADE
(9)	ADJUST INLET TO GRADE
	FULL DEPTH PC CONCRETE PATCH
	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)



REVISION	BY	DATE

**PLAN & PROFILE (9)**  
 E. 71ST ST. = STA. 138+00 TO STA. 142+50  
**ARTERIAL STREET REHABILITATION E. 71ST ST. TO S. MEMORIAL AVE. TO S. MINGO RD.**  
 PROJECT NO. 144017-AF & BD

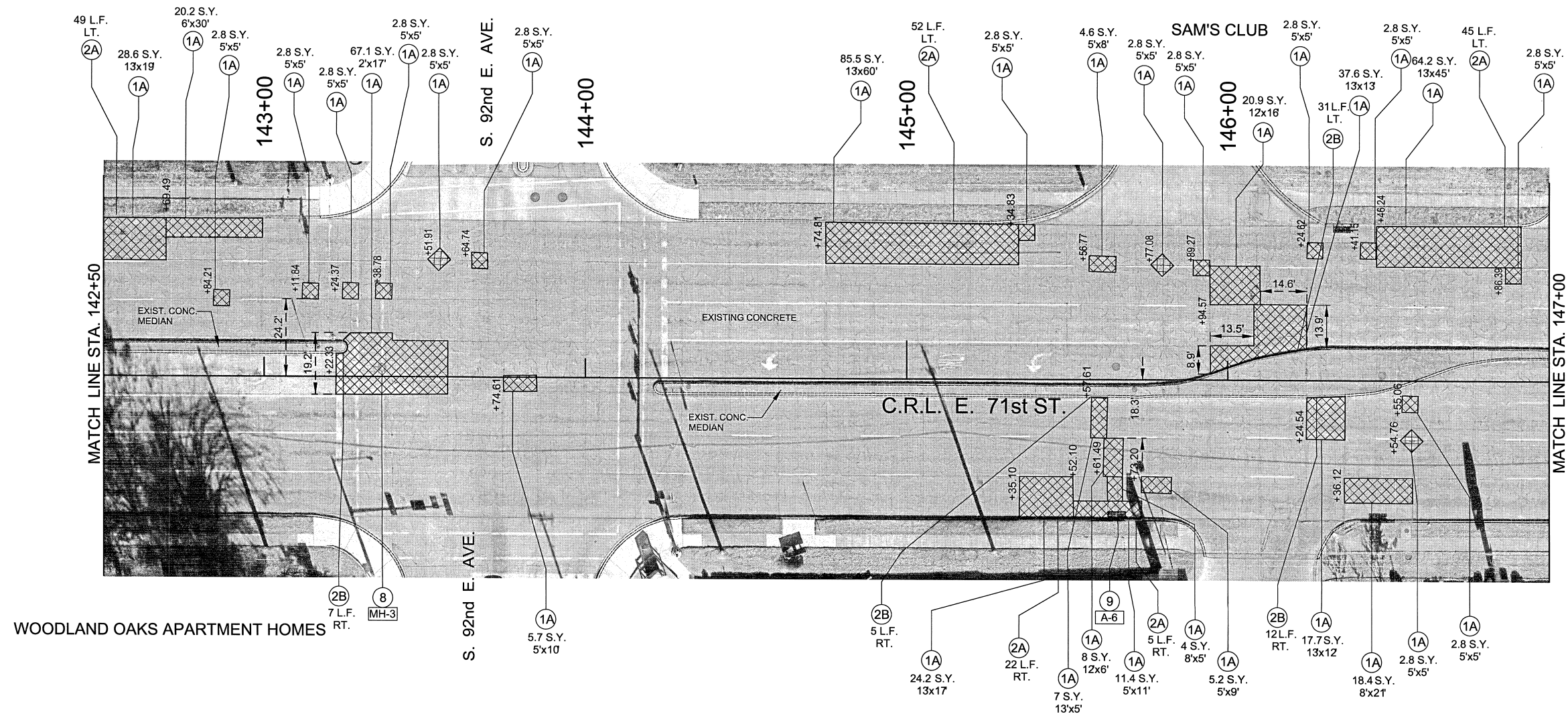
**CITY OF TULSA, OKLAHOMA**  
 ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
 Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	DATE	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
	SURVEY			
	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.		3/20	CITY ENGINEER
1" = 20'	FIELD MGR.		4/20	
VERTICAL:	RECOMMENDED:		4/20	DATE: 05.15.20
1" = 5'	DESIGN MANAGER			SHEET 17 OF 30 SHEETS

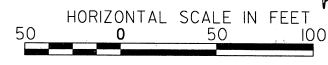
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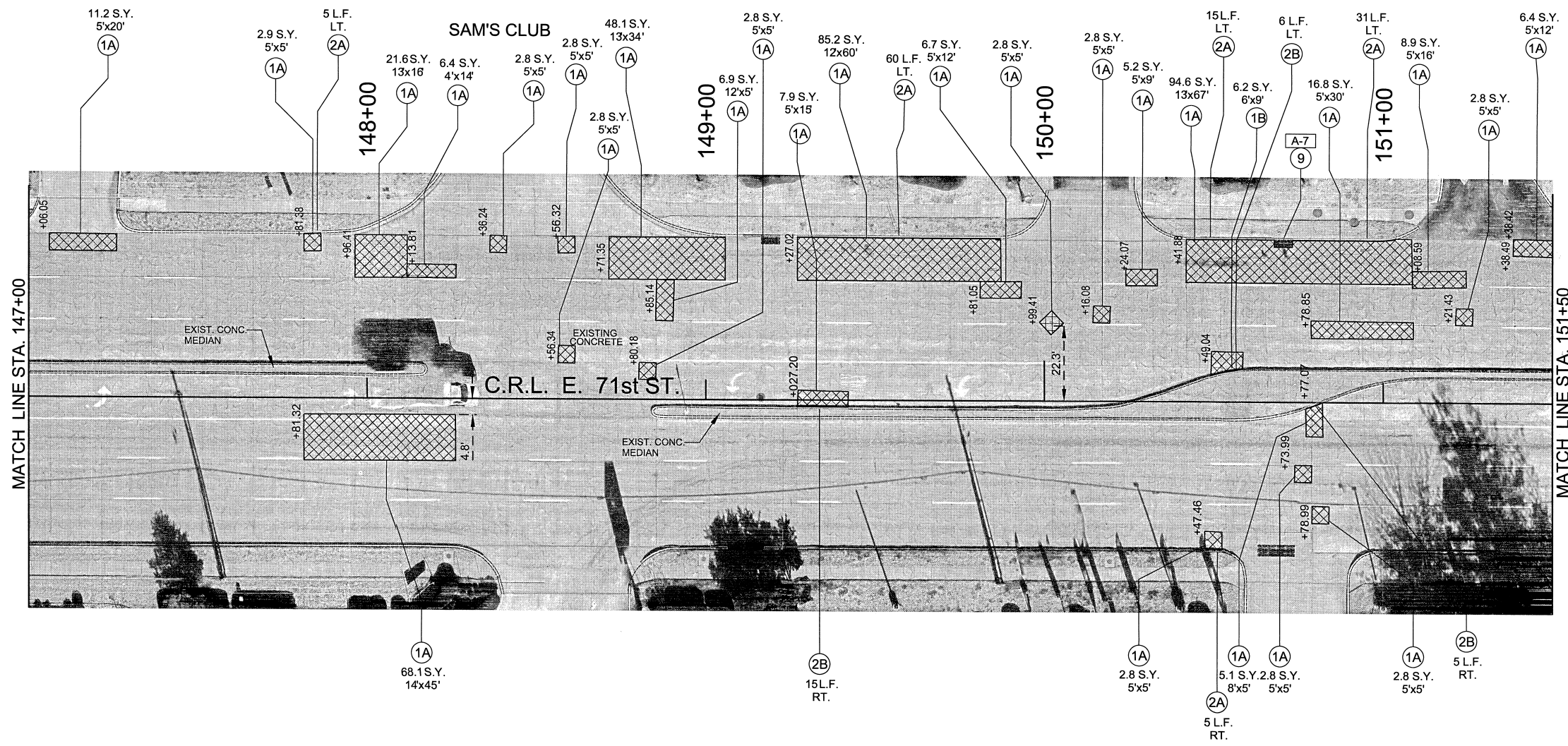


NOTE: REESTABLISH EXISTING JOINT PATTERNS

<b>LEGEND</b>	(1A) FULL DEPTH PC CONCRETE PATCH	FULL DEPTH PC CONCRETE PATCH
(2A) CONSTRUCT 8" BARRIER CURB	(2B) CONSTRUCT 8" MOUNTABLE CURB	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(2C) CONSTRUCT 6" BARRIER CURB	(4) CONSTRUCT INLET	(9) ADJUST INLET TO GRADE
(8) ADJUST MANHOLE TO GRADE		

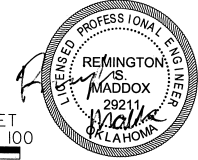


<b>PLAN &amp; PROFILE (10)</b> E. 71ST ST. = STA. 142+50 TO STA. 147+00				
ARTERIAL STREET REHABILITATION E. 71ST ST. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY:  POE & ASSOCIATES INC. Tulsa, Oklahoma				
REVISION	BY	DATE	PLAN SCALE:	APPROVED:
			1" = 50'	
			HORIZONTAL: 1" = 20'	
			PROFILE SCALE:	
			HORIZONTAL: 1" = 20'	
			VERTICAL: 1" = 5'	
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			ATLAS PAGE NO: 559, 658	SHEET 18 OF 30 SHEETS

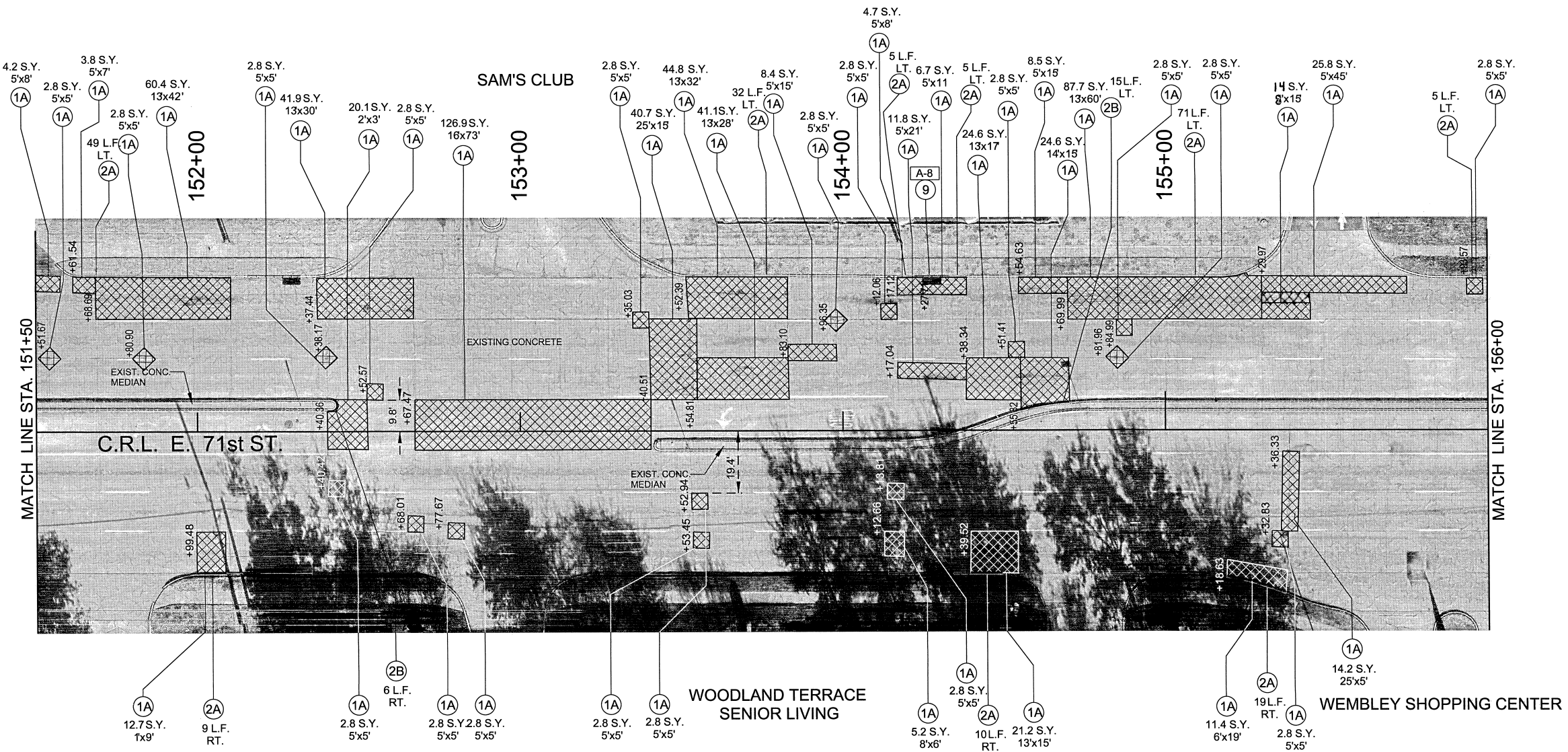


NOTE: REESTABLISH EXISTING JOINT PATTERNS

<b>LEGEND</b>	<ul style="list-style-type: none"> <li>1A FULL DEPTH PC CONCRETE PATCH</li> <li>2A CONSTRUCT 8" BARRIER CURB</li> <li>2B CONSTRUCT 8" MOUNTABLE CURB</li> <li>2C CONSTRUCT 6" BARRIER CURB</li> <li>4 CONSTRUCT INLET</li> <li>8 ADJUST MANHOLE TO GRADE</li> </ul>	<ul style="list-style-type: none"> <li> FULL DEPTH PC CONCRETE PATCH</li> <li> PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)</li> <li>9 ADJUST INLET TO GRADE</li> </ul>
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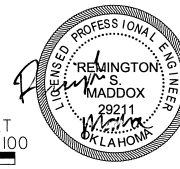


<b>PLAN &amp; PROFILE (11)</b> E. 71ST ST. = STA. 147+00 TO STA. 151+50 ARTERIAL STREET REHABILITATION E. 71ST ST., S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD																																													
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT																																													
PLANS AND ESTIMATES PREPARED BY: <b>POE &amp; ASSOCIATES INC.</b> Tulsa, Oklahoma																																													
<table border="1"> <thead> <tr> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISION	BY	DATE																PLAN SCALE: 1" = 50' PROFILE SCALE: 1" = 20' HORIZONTAL: 1" = 50' VERTICAL: 1" = 5'	<table border="1"> <thead> <tr> <th>DRAWN</th> <th>BKN</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DESIGNED</td> <td>RSM</td> <td>4/2019</td> </tr> <tr> <td>SURVEY</td> <td> </td> <td> </td> </tr> <tr> <td>PROJ. MGR.</td> <td> </td> <td> </td> </tr> <tr> <td>LEAD ENGR.</td> <td><i>[Signature]</i></td> <td>3/20</td> </tr> <tr> <td>FIELD MGR.</td> <td><i>[Signature]</i></td> <td> </td> </tr> <tr> <td>RECOMMENDED</td> <td> </td> <td> </td> </tr> <tr> <td>DESIGN MANAGER</td> <td><i>[Signature]</i></td> <td>HAS 4.20</td> </tr> </tbody> </table>	DRAWN	BKN	DATE	DESIGNED	RSM	4/2019	SURVEY			PROJ. MGR.			LEAD ENGR.	<i>[Signature]</i>	3/20	FIELD MGR.	<i>[Signature]</i>		RECOMMENDED			DESIGN MANAGER	<i>[Signature]</i>	HAS 4.20	APPROVED:  CITY ENGINEER DATE: 05.15.20 SHEET 19 OF 30 SHEETS
REVISION	BY	DATE																																											
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RECOMMENDED																																													
DESIGN MANAGER	<i>[Signature]</i>	HAS 4.20																																											
FILE: H:\303859-9	DRAWING: 303859-9 PNP	ATLAS PAGE NO: 559, 658																																											



NOTE: REESTABLISH EXISTING JOINT PATTERNS

1A	FULL DEPTH PC CONCRETE PATCH		FULL DEPTH PC CONCRETE PATCH
2A	CONSTRUCT 8" BARRIER CURB		PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
2B	CONSTRUCT 8" MOUNTABLE CURB		
2C	CONSTRUCT 6" BARRIER CURB		
4	CONSTRUCT INLET		
8	ADJUST MANHOLE TO GRADE	9	ADJUST INLET TO GRADE



REVISION	BY	DATE

**PLAN & PROFILE (12)**  
E. 71ST ST. = STA. 151+50 TO STA. 156+00

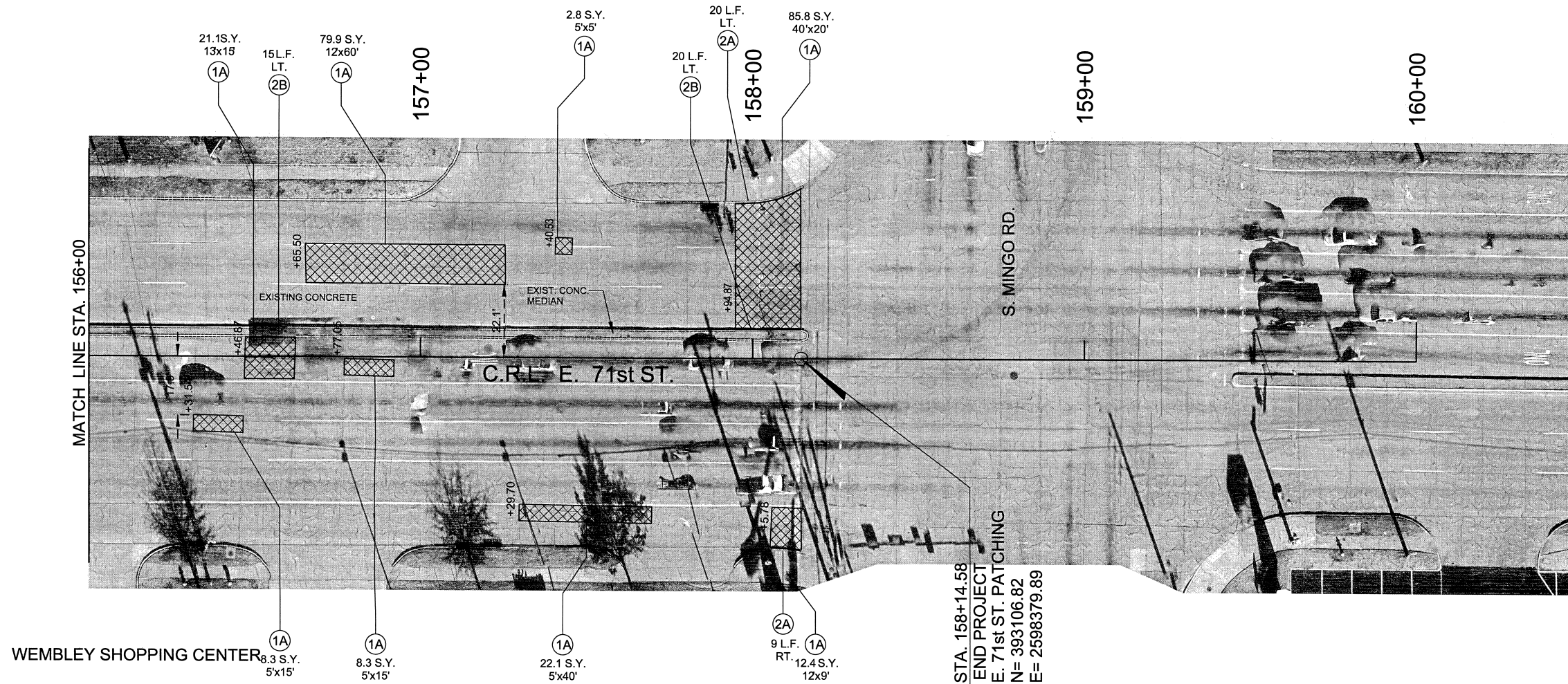
**ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD**

**CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT**

PLANS AND ESTIMATES PREPARED BY:  
 **POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
1" = 20'	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.		3/20	
1" = 5'	FIELD MGR.		7/10/10	
VERTICAL:	RECOMMENDED:		HAS 4.20	
	DESIGN MANAGER			CITY ENGINEER

FILE: H:\303859-9 DRAWING: 303859-9 PNP DATE: 05-15-20  
ATLAS PAGE NO: 659, 658 SHEET 20 OF 30 SHEETS

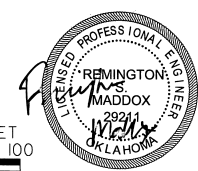
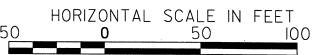


WEMBLEY SHOPPING CENTER

STA. 158+14.58  
END PROJECT  
E. 71st ST. PATCHING  
N= 393106.82  
E= 2598379.89

NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
1A	FULL DEPTH PC CONCRETE PATCH
2A	CONSTRUCT 8" BARRIER CURB
2B	CONSTRUCT 8" MOUNTABLE CURB
2C	CONSTRUCT 6" BARRIER CURB
4	CONSTRUCT INLET
8	ADJUST MANHOLE TO GRADE
(Cross-hatched box)	FULL DEPTH PC CONCRETE PATCH
(Solid line)	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
9	ADJUST INLET TO GRADE



REVISION	BY	DATE

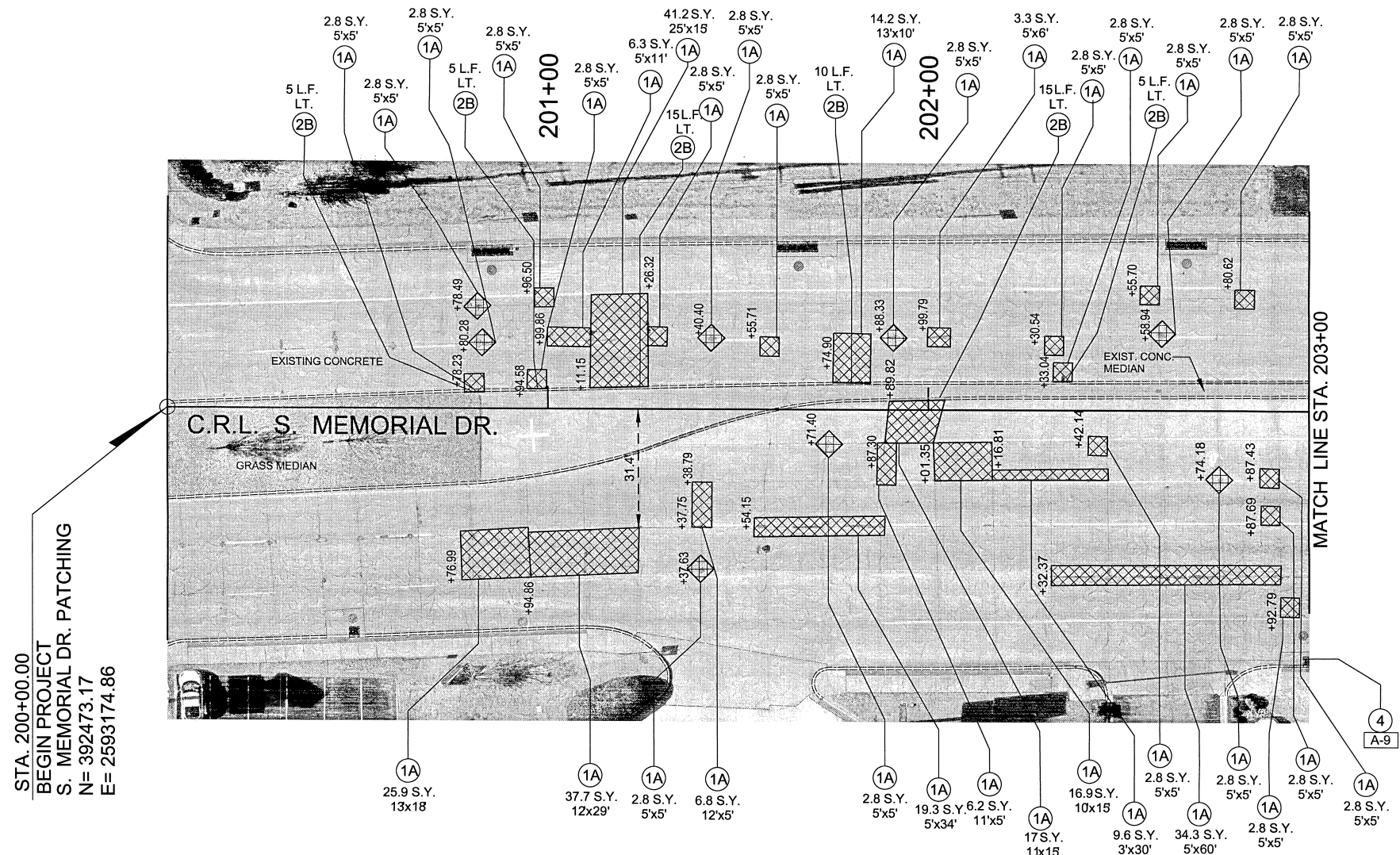
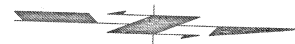
**PLAN & PROFILE (13)**  
E. 71ST ST. = STA. 156+00 TO STA. 160+00

**ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD**

**CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT**

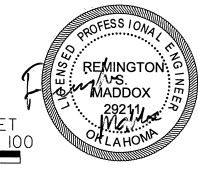
PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.		3/20	
1" = 20'	FIELD MGR.		4/20	
VERTICAL:	RECOMMENDED:			
1" = 5'	DESIGN MANAGER		4/20	
FILE: H:\303859-9	DRAWING: 303859-9 PNP			DATE: 05-15-20
ATLAS PAGE NO: 559, 658				SHEET 21 OF 30 SHEETS

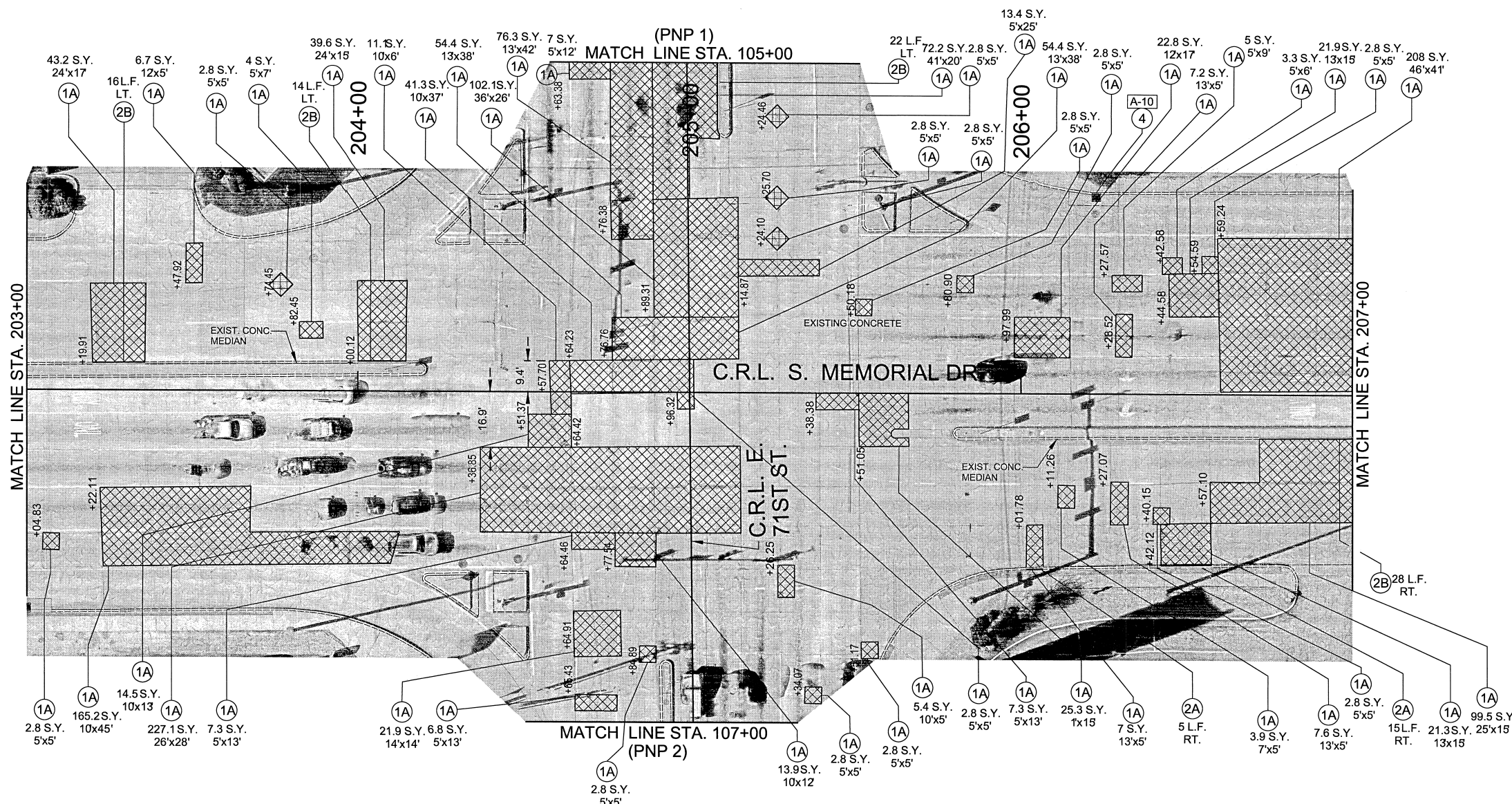
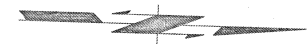


NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A) FULL DEPTH PC CONCRETE PATCH	FULL DEPTH PC CONCRETE PATCH
(2A) CONSTRUCT 8" BARRIER CURB	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)
(2B) CONSTRUCT 8" MOUNTABLE CURB	
(2C) CONSTRUCT 6" BARRIER CURB	
(4) CONSTRUCT INLET	(9) ADJUST INLET TO GRADE
(8) ADJUST MANHOLE TO GRADE	



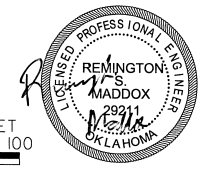
<p align="center"><b>PLAN &amp; PROFILE (14)</b> S. MEMORIAL DR. = STA. 200+00 TO STA. 203+00</p>				
<p align="center">ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF &amp; BD</p>				
<p align="center">CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT</p>				
<p>PLANS AND ESTIMATES PREPARED BY:  POE &amp; ASSOCIATES INC. Tulsa, Oklahoma</p>				
REVISION	BY	DATE	PLAN SCALE:	APPROVED:
			DRAWN BKN 4/2019	 CITY ENGINEER DATE: 05-15-20
			DESIGNED RSM 4/2019	
			SURVEY	
			PROFILE SCALE:	
			PROJ. MGR.	
			LEAD ENGR.  3/20	
			FIELD MGR.  2/20/16	
			RECOMMENDED:  4/20	
			DESIGN MANAGER	
FILE: H:\303859-9			DRAWING: 303859-9 PNP	SHEET 22 OF 30 SHEETS
ATLAS PAGE NO: 658, 659				



NOTE: REESTABLISH EXISTING JOINT PATTERNS

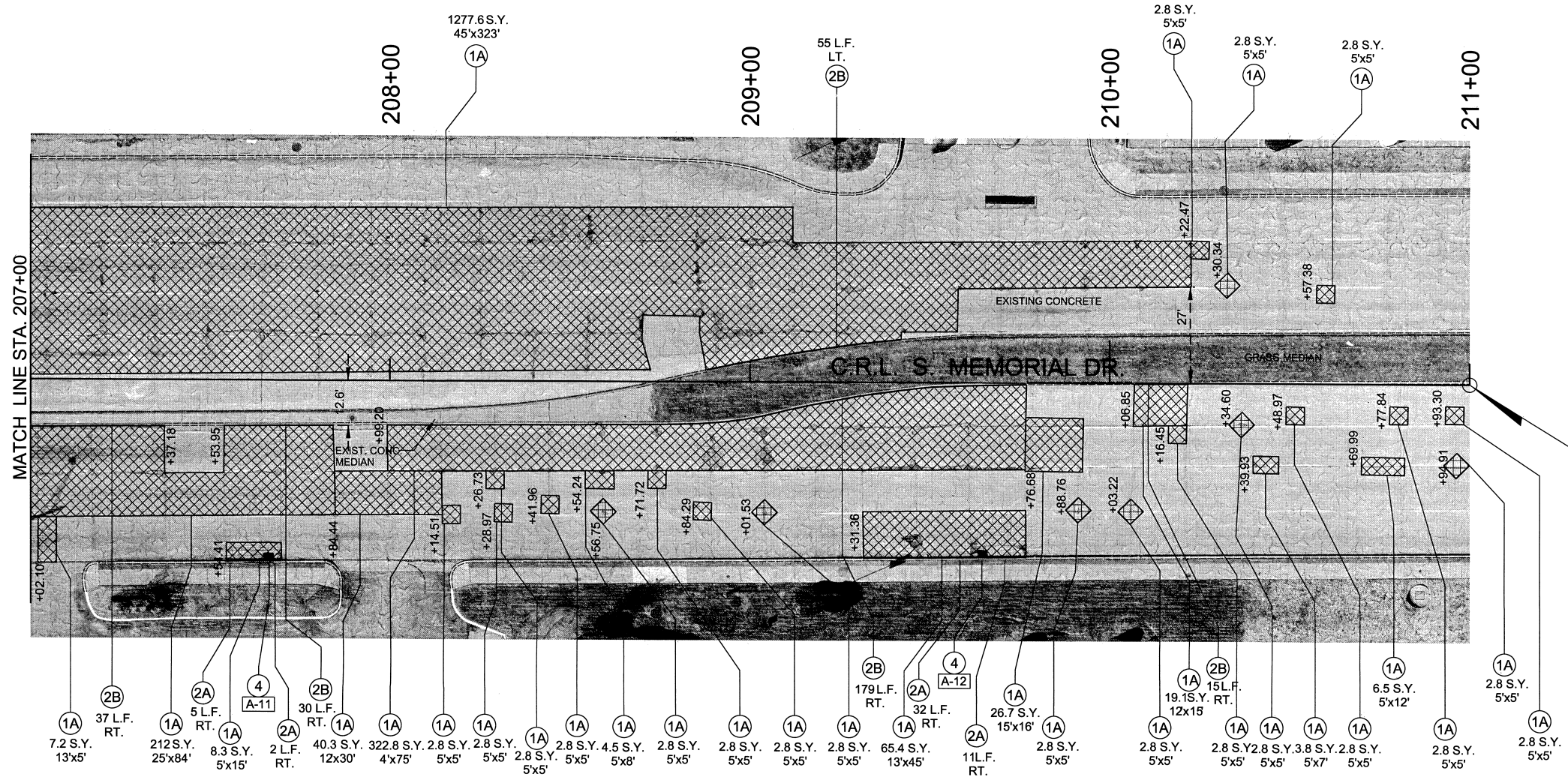
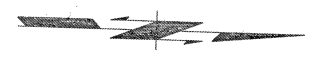
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<b>LEGEND</b>	<ul style="list-style-type: none"> <li>1A FULL DEPTH PC CONCRETE PATCH</li> <li>2A CONSTRUCT 8" BARRIER CURB</li> <li>2B CONSTRUCT 8" MOUNTABLE CURB</li> <li>2C CONSTRUCT 6" BARRIER CURB</li> <li>4 CONSTRUCT INLET</li> <li>8 ADJUST MANHOLE TO GRADE</li> </ul>	<ul style="list-style-type: none"> <li> FULL DEPTH PC CONCRETE PATCH</li> <li> PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)</li> <li>9 ADJUST INLET TO GRADE</li> </ul>
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REVISION	BY	DATE

<b>PLAN &amp; PROFILE (15)</b>				
S. MEMORIAL DR. = STA. 203+00 TO STA. 207+00				
ARTERIAL STREET REHABILITATION E. 71ST ST. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD				
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY:				
POE & ASSOCIATES INC. Tulsa, Oklahoma				
PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
HORIZONTAL:	PROJ. MGR.			
1" = 20'	LEAD ENGR.		3/20	
VERTICAL:	FIELD MGR.		4/20	
1" = 5'	RECOMMENDED:			CITY ENGINEER
	DESIGN MANAGER		4.20	DATE: 05.15.20
FILE: H:\303859-9 DRAWING: 303859-9 PNP				SHEET 23 OF 30 SHEETS
ATLAS PAGE NO: 658, 659, 559, 560				



STA. 211+00.00  
 END PROJECT  
 S. MEMORIAL DR. PATCHING  
 N= 393573.03  
 E= 2593157.64

NOTE: REESTABLISH EXISTING JOINT PATTERNS

LEGEND	
(1A)	FULL DEPTH PC CONCRETE PATCH
(2A)	CONSTRUCT 8" BARRIER CURB
(2B)	CONSTRUCT 8" MOUNTABLE CURB
(2C)	CONSTRUCT 6" BARRIER CURB
(4)	CONSTRUCT INLET
(8)	ADJUST MANHOLE TO GRADE
(9)	ADJUST INLET TO GRADE
	FULL DEPTH PC CONCRETE PATCH
	PC CONCRETE CURB (6" MOUNTABLE, 8" BARRIER)

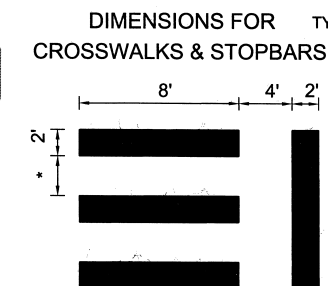
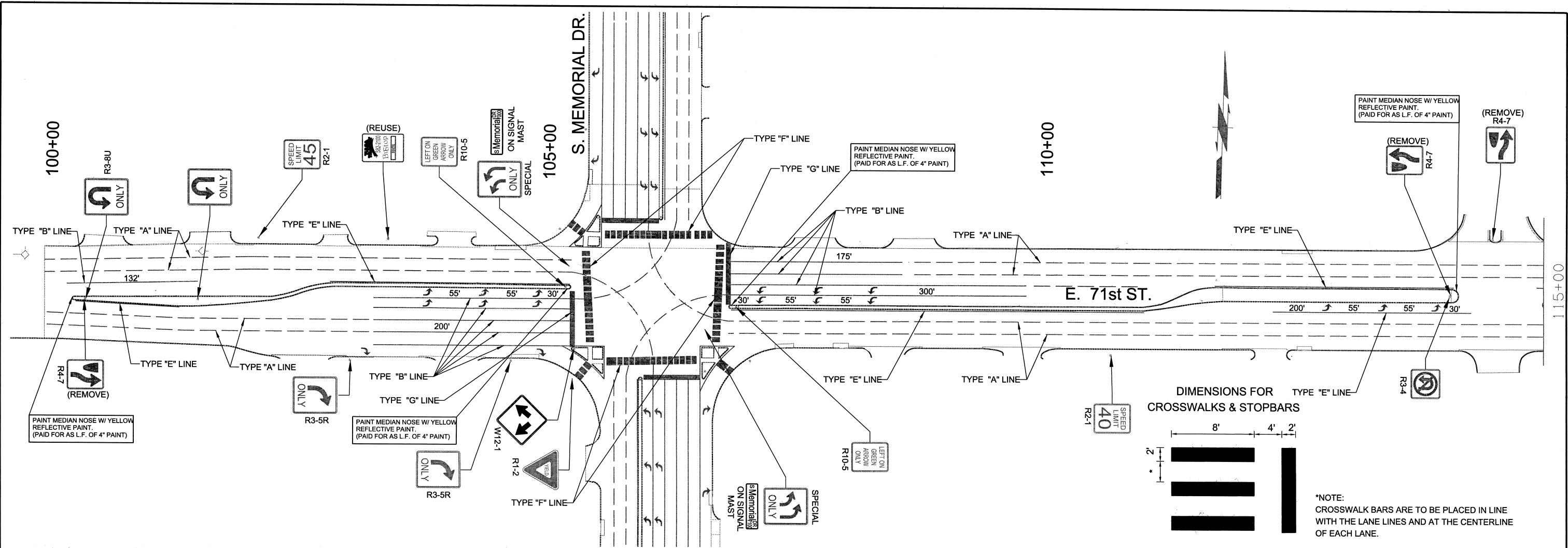


REVISION	BY	DATE

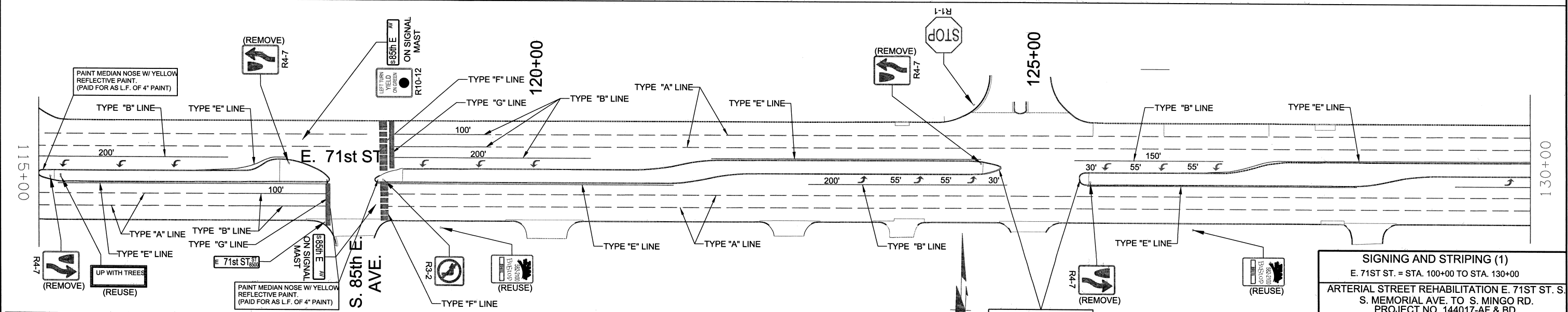
<b>PLAN &amp; PROFILE (16)</b> S. MEMORIAL DR. = STA. 207+00 TO STA. 211+00 ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF & BD			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: POE & ASSOCIATES INC. Tulsa, Oklahoma			
PLAN SCALE: 1" = 50' PROFILE SCALE: HORIZONTAL: 1" = 20' VERTICAL: 1" = 5'	DRAWN: BKN 4/2019 DESIGNED: RSM 4/2019 SURVEY: PROJ. MGR. LEAD ENGR.  3/20 FIELD MGR.  4/20 RECOMMENDED:  4.20 DESIGN MANAGER	APPROVED:  CITY ENGINEER	DATE: 05.15.20 SHEET 24 OF 30 SHEETS
FILE: H:\303859-9 DRAWING: 303859-9 PNP ATLAS PAGE NO: 559, 560		DATE: 05.15.20 SHEET 24 OF 30 SHEETS	



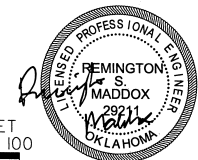
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\*NOTE:  
CROSSWALK BARS ARE TO BE PLACED IN LINE WITH THE LANE LINES AND AT THE CENTERLINE OF EACH LANE.



LEGEND	
	TYPE "A" LINE 4" DASHED WHITE
	TYPE "B" LINE 4" SOLID WHITE
	TYPE "D" LINE 4" DOUBLE SOLID YELLOW
	TYPE "E" LINE 4" SOLID YELLOW
	TYPE "F" LINE 24" SOLID WHITE (CROSSWALK)
	TYPE "G" LINE 24" SOLID WHITE (STOP LINE)
	TYPE "H" LINE 4" WHITE DOTTED LANE LINE
	TYPE "I" LINE 8" YELLOW DIAGONAL
	TYPE "J" LINE 15' C/C



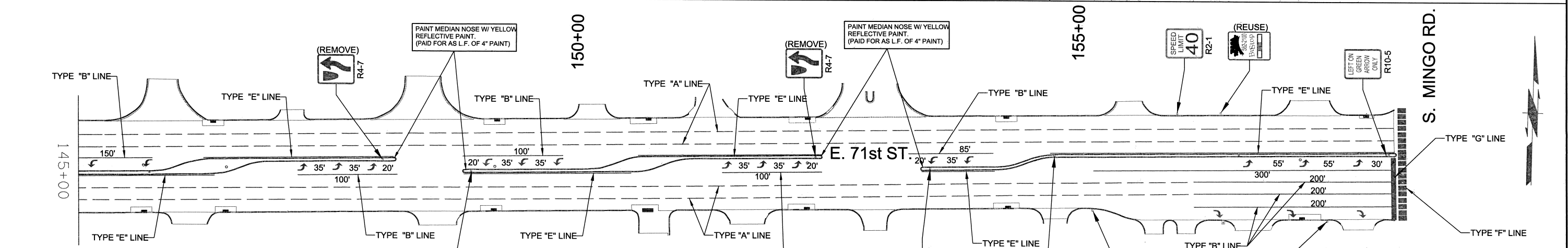
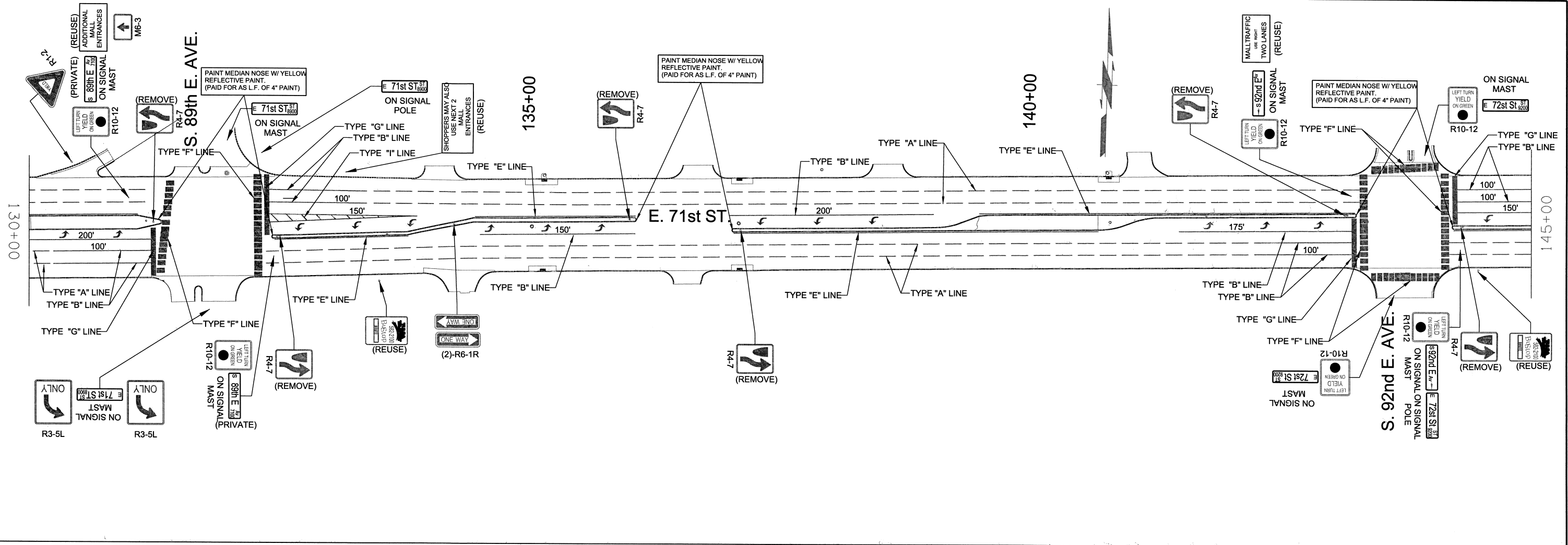
REVISION	BY	DATE	PLAN SCALE:	DRAWN	RM	DATE	APPROVED:
			1" = 50'	DESIGNED	RSM	4/2019	
			PROFILE SCALE:	SURVEY			
			HORIZONTAL:	PROJ. MGR.			
			1" = N/A	LEAD ENGR.		2/20	
			VERTICAL:	FIELD MGR.		4/20	
			1" = N/A	RECOMMENDED:			
				DESIGN MANAGER		HAS 4.20	

FILE: H:\303859-9 DRAWING: 303859-9 SIGNING&STRIPING DATE: 05-15-20  
ATLAS PAGE NO: 558, 658 SHEET 25 OF 30 SHEETS

**SIGNING AND STRIPING (1)**  
E. 71ST ST. = STA. 100+00 TO STA. 130+00  
ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

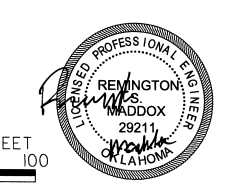
PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma



### LEGEND

	TYPE "A" LINE 4" DASHED WHITE		TYPE "F" LINE 24" SOLID WHITE (CROSSWALK)
	TYPE "B" LINE 4" SOLID WHITE		TYPE "G" LINE 24" SOLID WHITE (STOP LINE)
	TYPE "D" LINE 4" DOUBLE SOLID YELLOW		TYPE "H" LINE 4" WHITE DOTTED LANE LINE
	TYPE "E" LINE 4" SOLID YELLOW		TYPE "I" LINE 8" YELLOW DIAGONAL

15' C/C

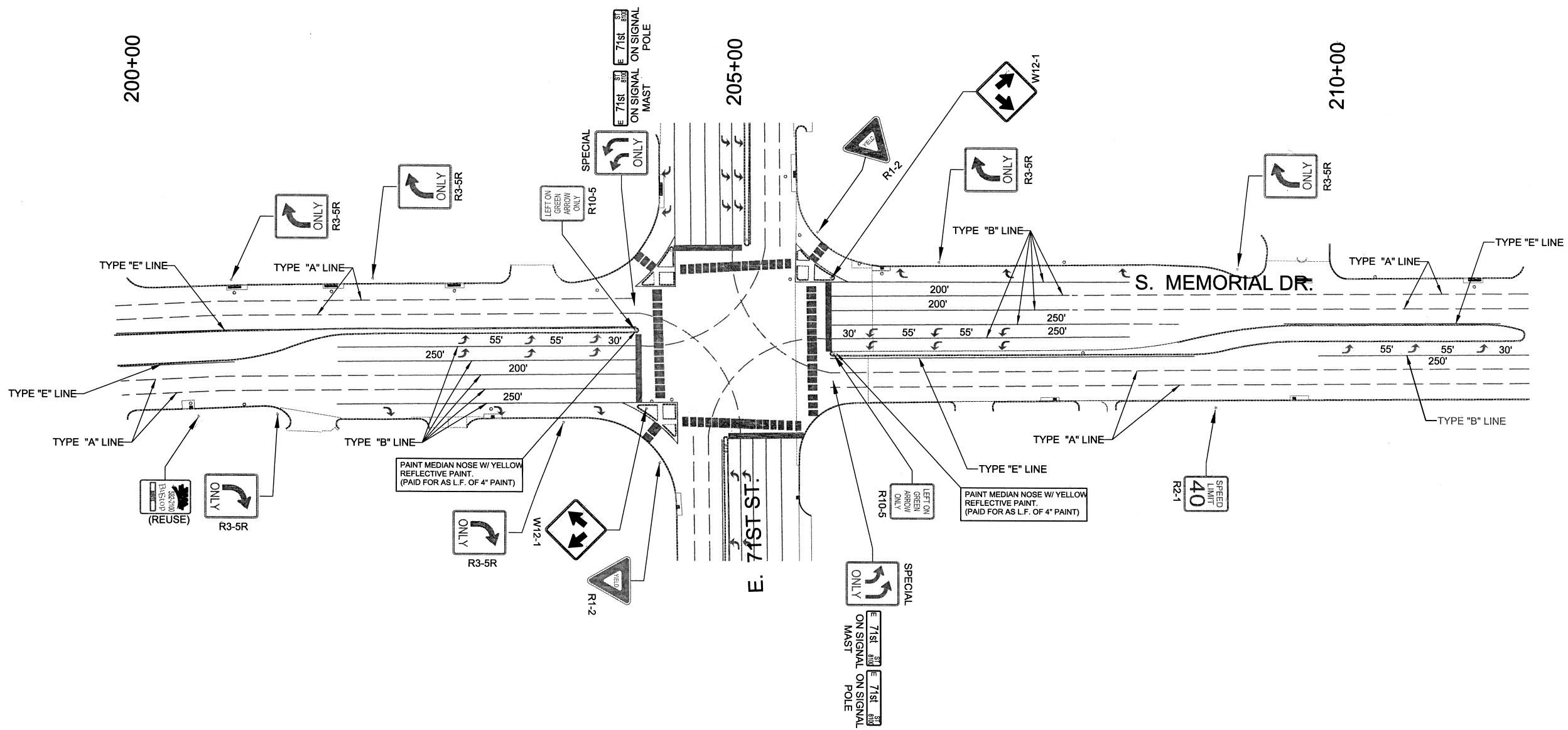
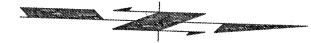


REVISION	BY	DATE	APPROVED:

PLAN SCALE:	DRAWN	RM	4/2019	APPROVED:
1" = 50'	DESIGNED	RSM	4/2019	
PROFILE SCALE:	SURVEY			
1" = N/A	PROJ. MGR.			
HORIZONTAL:	LEAD ENGR.		3/20	
1" = N/A	FIELD MGR.		4/20	
VERTICAL:	RECOMMENDED:			
1" = N/A	DESIGN MANAGER		4.20	

FILE: H:\303859-9 DRAWING: 303859-9 SIGNING&STRIPING DATE: 05-15-20  
ATLAS PAGE NO: 559, 658 SHEET 26 OF 30 SHEETS



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LEGEND	
	TYPE "A" LINE 4" DASHED WHITE
	TYPE "B" LINE 4" SOLID WHITE
	TYPE "D" LINE 4" DOUBLE SOLID YELLOW
	TYPE "E" LINE 4" SOLID YELLOW
	TYPE "F" LINE 24" SOLID WHITE (CROSSWALK)
	TYPE "G" LINE 24" SOLID WHITE (STOP LINE)
	TYPE "H" LINE 4" WHITE DOTTED LANE LINE
	TYPE "I" LINE 8" YELLOW DIAGONAL



HORIZONTAL SCALE IN FEET  
0 50 100



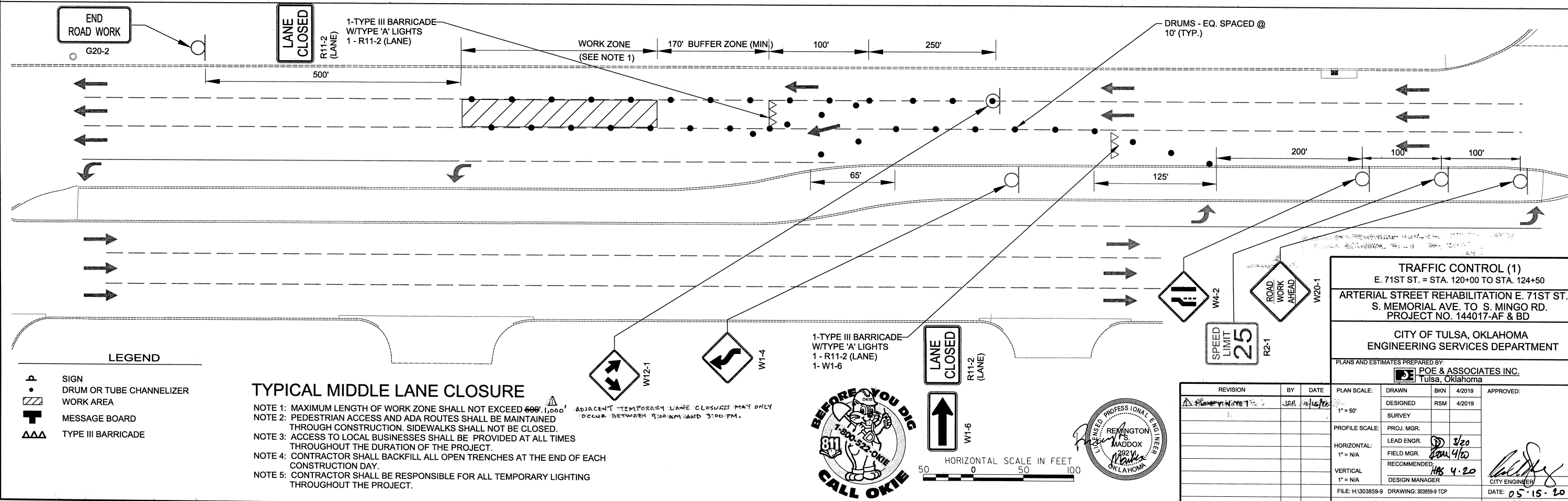
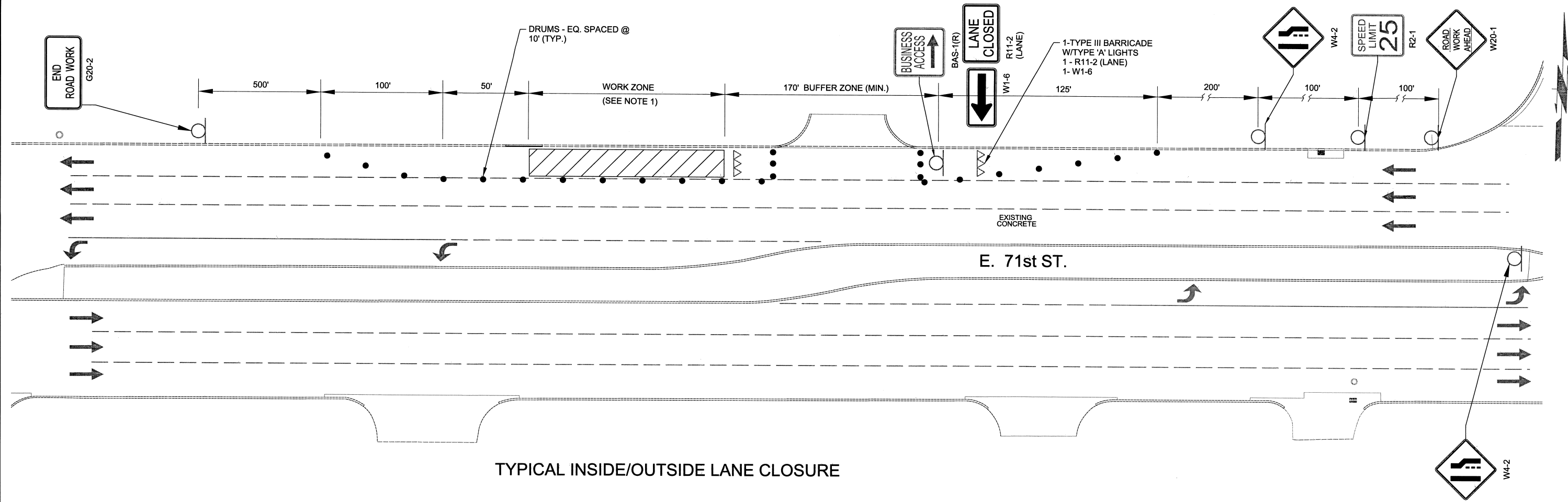
**SIGNING AND STRIPING (3)**  
S. MEMORIAL DR. = STA. 200+00 TO STA. 211+00  
ARTERIAL STREET REHABILITATION E. 71ST ST., S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

REVISION	BY	DATE	PLAN SCALE:	DRAWN	RM	4/2019	APPROVED:
			1" = 50'	DESIGNED	RSM	4/2019	
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.			
			1" = N/A	FIELD MGR.			
			VERTICAL:	RECOMMENDED:			
			1" = N/A	DESIGN MANAGER			
			FILE: H:\303859-9	DRAWING: 303859-9 SIGNING&STRIPING			
			ATLAS PAGE NO: 559, 658				

DATE: 05-15-20  
SHEET 27 OF 30 SHEETS



**LEGEND**

	SIGN
	DRUM OR TUBE CHANNELIZER
	WORK AREA
	MESSAGE BOARD
	TYPE III BARRICADE

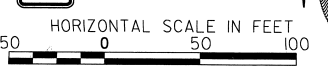
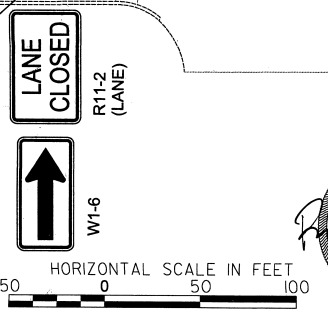
**NOTE 1:** MAXIMUM LENGTH OF WORK ZONE SHALL NOT EXCEED 600'. ADJACENT TEMPORARY LANE CLOSURES MAY ONLY OCCUR BETWEEN 9:00AM AND 3:00 PM.

**NOTE 2:** PEDESTRIAN ACCESS AND ADA ROUTES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. SIDEWALKS SHALL NOT BE CLOSED.

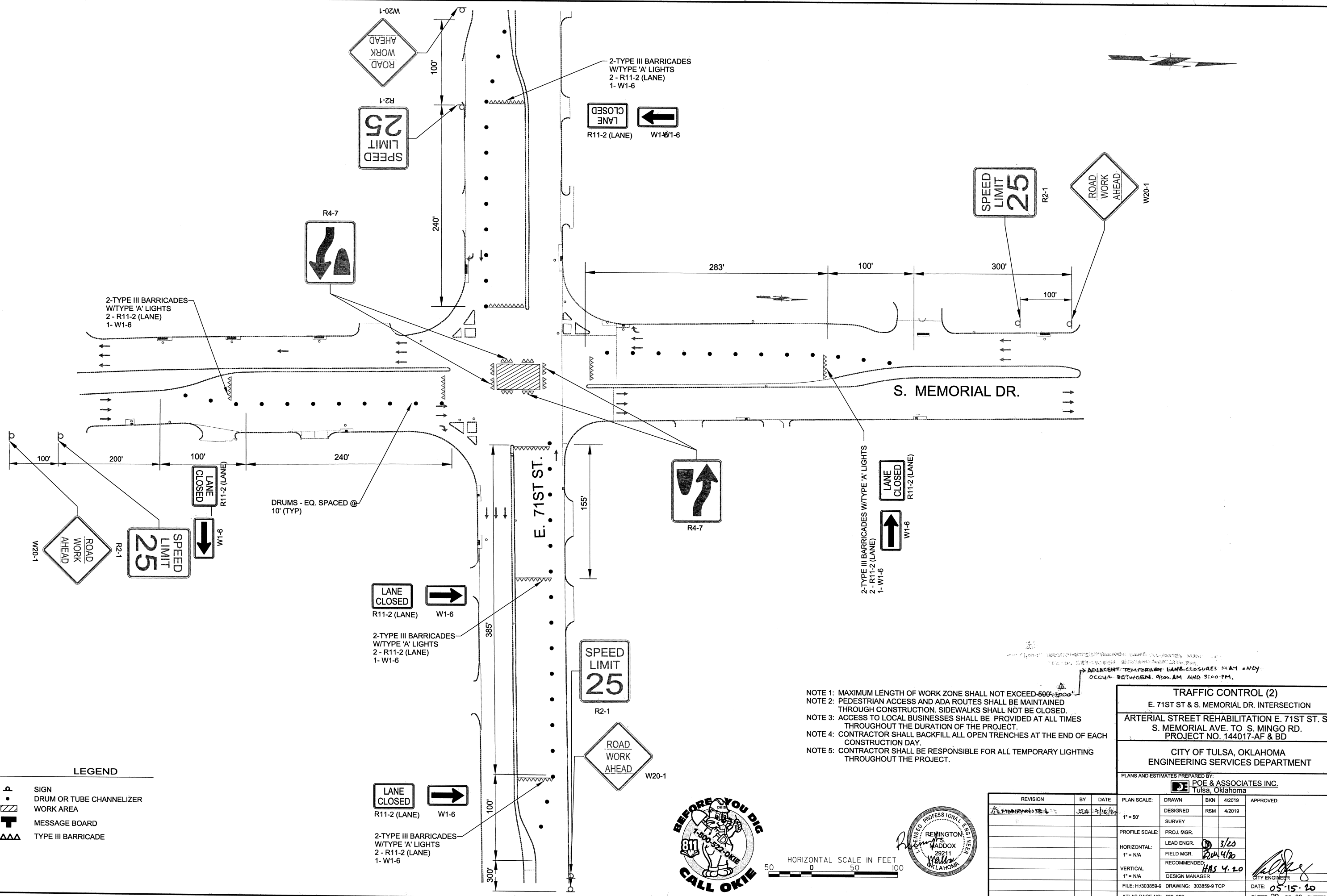
**NOTE 3:** ACCESS TO LOCAL BUSINESSES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.

**NOTE 4:** CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AT THE END OF EACH CONSTRUCTION DAY.

**NOTE 5:** CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY LIGHTING THROUGHOUT THE PROJECT.



<p><b>TRAFFIC CONTROL (1)</b> E. 71ST ST. = STA. 120+00 TO STA. 124+50 ARTERIAL STREET REHABILITATION E. 71ST ST. S. S. MEMORIAL AVE. TO S. MINGO RD. PROJECT NO. 144017-AF &amp; BD</p>		<p>CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT</p>																																															
<p>PLANS AND ESTIMATES PREPARED BY:  POE &amp; ASSOCIATES INC. Tulsa, Oklahoma</p>																																																	
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**LEGEND**

	SIGN
	DRUM OR TUBE CHANNELIZER
	WORK AREA
	MESSAGE BOARD
	TYPE III BARRICADE

- NOTE 1: MAXIMUM LENGTH OF WORK ZONE SHALL NOT EXCEED 500 FEET.  
 NOTE 2: PEDESTRIAN ACCESS AND ADA ROUTES SHALL BE MAINTAINED THROUGH CONSTRUCTION. SIDEWALKS SHALL NOT BE CLOSED.  
 NOTE 3: ACCESS TO LOCAL BUSINESSES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.  
 NOTE 4: CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AT THE END OF EACH CONSTRUCTION DAY.  
 NOTE 5: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY LIGHTING THROUGHOUT THE PROJECT.

**TRAFFIC CONTROL (2)**  
 E. 71ST ST & S. MEMORIAL DR. INTERSECTION  
 ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
 S. MEMORIAL AVE. TO S. MINGO RD.  
 PROJECT NO. 144017-AF & BD  
 CITY OF TULSA, OKLAHOMA  
 ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
 POE & ASSOCIATES INC.  
 Tulsa, Oklahoma

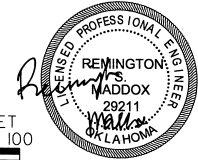
REVISION	BY	DATE	PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1	WAL	4/15/20	1" = 50'	DESIGNED	RSM	4/2019	 CITY ENGINEER DATE: 05-15-20 SHEET 29 OF 30 SHEETS
			1" = N/A	SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.		3/20	
			VERTICAL:	FIELD MGR.		4/20	

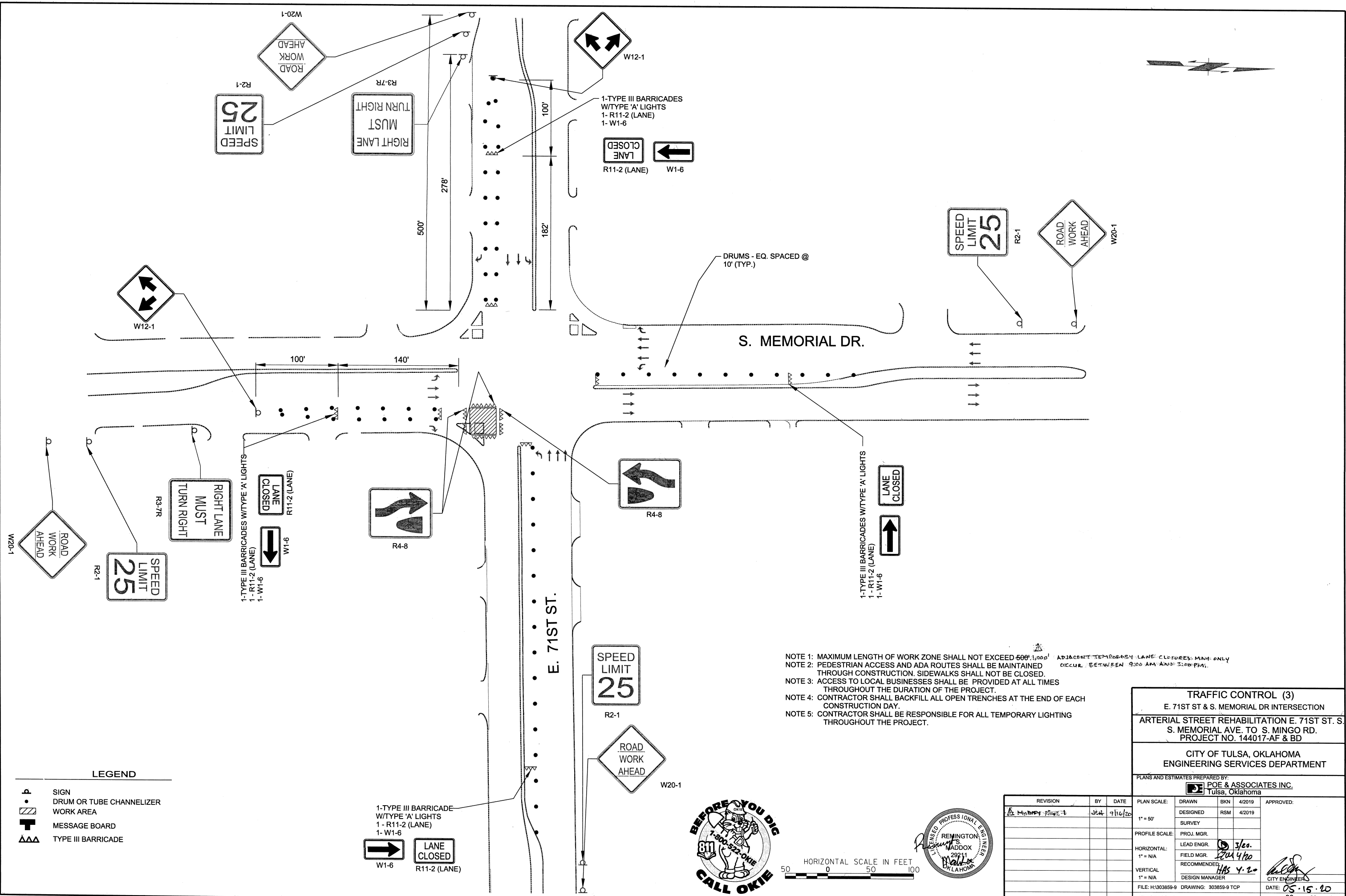
RECOMMENDED: HHS 4.20  
 DESIGN MANAGER

FILE: H:\303859-9 DRAWING: 303859-9 TCP  
 ATLAS PAGE NO: 559, 658



HORIZONTAL SCALE IN FEET  
 50 0 50 100





**LEGEND**

- SIGN
- DRUM OR TUBE CHANNELIZER
- WORK AREA
- MESSAGE BOARD
- TYPE III BARRICADE

- 1-TYPE III BARRICADE W/TYPE 'A' LIGHTS
- 1- R11-2 (LANE)
- 1- W1-6

- NOTE 1: MAXIMUM LENGTH OF WORK ZONE SHALL NOT EXCEED 500'. ADJACENT TEMPORARY LANE CLOSURES: MAX ONLY OCCUR BETWEEN 9:00 AM AND 3:00 PM.
- NOTE 2: PEDESTRIAN ACCESS AND ADA ROUTES SHALL BE MAINTAINED THROUGH CONSTRUCTION. SIDEWALKS SHALL NOT BE CLOSED.
- NOTE 3: ACCESS TO LOCAL BUSINESSES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.
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**TRAFFIC CONTROL (3)**  
E. 71ST ST & S. MEMORIAL DR INTERSECTION  
ARTERIAL STREET REHABILITATION E. 71ST ST. S.  
S. MEMORIAL AVE. TO S. MINGO RD.  
PROJECT NO. 144017-AF & BD

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:  
**POE & ASSOCIATES INC.**  
Tulsa, Oklahoma

REVISION	BY	DATE	PLAN SCALE:	DRAWN	BKN	4/2019	APPROVED:
1	WJL	9/16/20	1" = 50'	DESIGNED	RSM	4/2019	
				SURVEY			
			PROFILE SCALE:	PROJ. MGR.			
			HORIZONTAL:	LEAD ENGR.			
			1" = N/A	RECOMMENDED			
			VERTICAL:	DESIGN MANAGER			
			1" = N/A				
			FILE: H:\303859-9	DRAWING: 303859-9 TCP			DATE: 05.15.20
			ATLAS PAGE NO: 559, 658				SHEET 30 OF 30 SHEETS

