

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	31012(04)		0001	80
DESCRIPTION		REVISIONS		DATE	

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
STATE HIGHWAY

PROJECT NO.
CONCEPTUAL GRADING, DRAINAGE, SURFACING AND BRIDGE PLANS
STATE HIGHWAY 51
CITY OF STILLWATER

PAYNE COUNTY

STATE JOB NO. 31012(04)
CONTROL SECTION NO. 51-60-18
BR "A" LOCATION NO. 6018 1566X (NBI NO. 14872)



LOCATION MAP

DIVISION IV

APPROX. CENTER OF PROJECT
LATITUDE: 36° 06' 56.38" N
LONGITUDE: 97° 03' 30.99" W

INDEX OF SHEETS

0001	TITLE
0002	TYPICALS
0003 - 0021	PLAN & PROFILE OPTION 1
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0041 - 0059	PLAN & PROFILE OPTION 2
0060 - 0078	UTILITY CONCEPT PLAN OPTION 2
0079 - 0080	OFFSITE STORM SEWER EXHIBIT

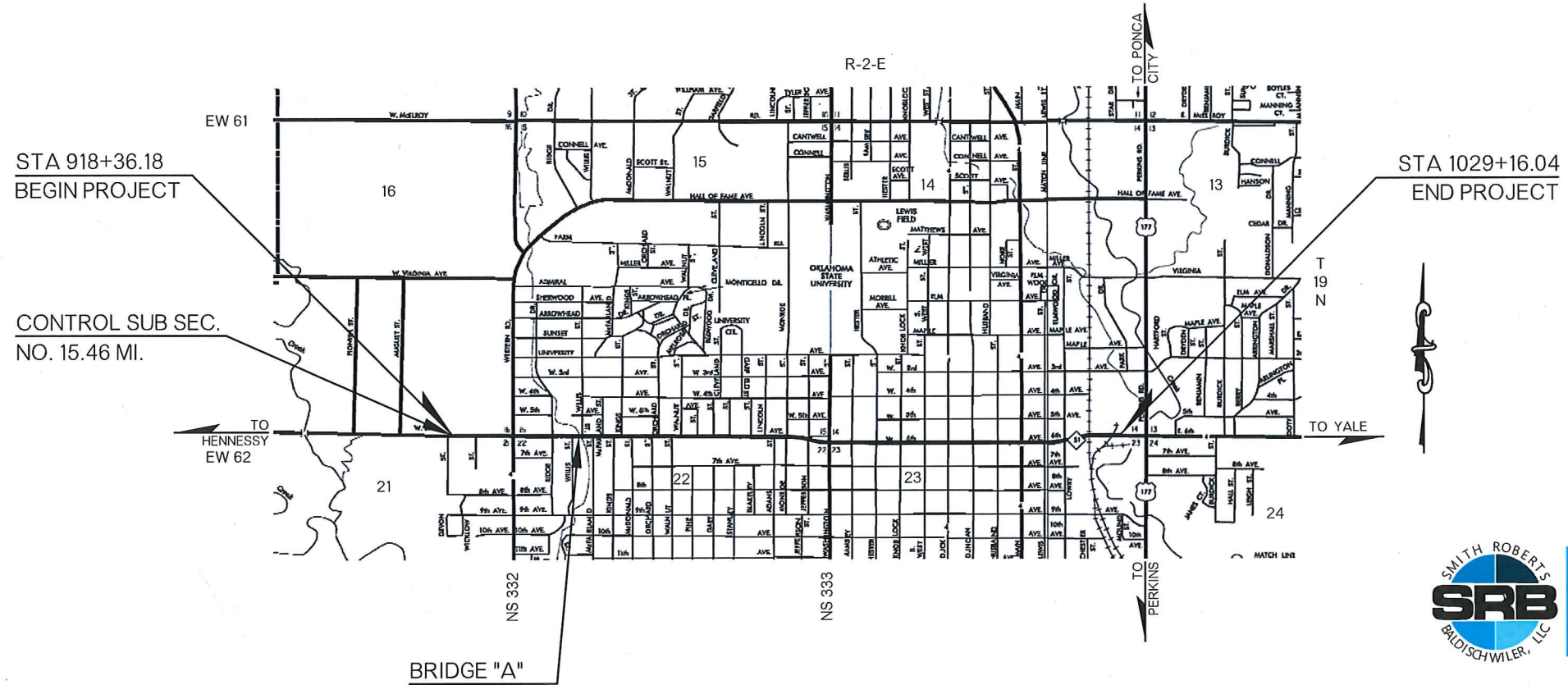
DESIGN DATA	
AADT 20XX	= XXXX
K	= XX%
D	= XX%
T (% DHV)	= XX%
T (% AADT)	= XX%
T3 (% AADT)	= X%
V	= 40 MPH
FLEX. ESALS	= X.XX M

SCALES	
PLAN:	1" = 50'
PROFILE HORIZ.:	1" = 50'
VERT.:	1" = 5'
LAYOUT MAP:	1" = 1320'

LEVEL DATA IS MEAN SEA LEVEL (USC&GS)
BEARINGS ARE FROM OBSERVATION OF POLARIS.

CONVENTIONAL SYMBOLS

- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- PRES. R/W
- R/W
- RIGHT-OF-WAY MARKERS - IN PLACE
- RIGHT-OF-WAY MARKERS - REMOVE & REPLACE
- RIGHT-OF-WAY MARKERS - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE



SMITH ROBERTS SURVEYING & PLANNING
SRB
BALDISHWILER, LLC

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100 N.E. 5th Street
Oklahoma City, Oklahoma 73104
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F: 405.840.9116
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NORMAN
2500 McGee Drive, Suite 100
Norman, OK 73072
T: 405.418.2288
F: 405.418.2289
srb@srbok.com

CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2019

SUBMITTED FOR APPROVAL BY:

GREGORY DON ALLEN
REGISTERED PROFESSIONAL ENGINEER NO. 16191

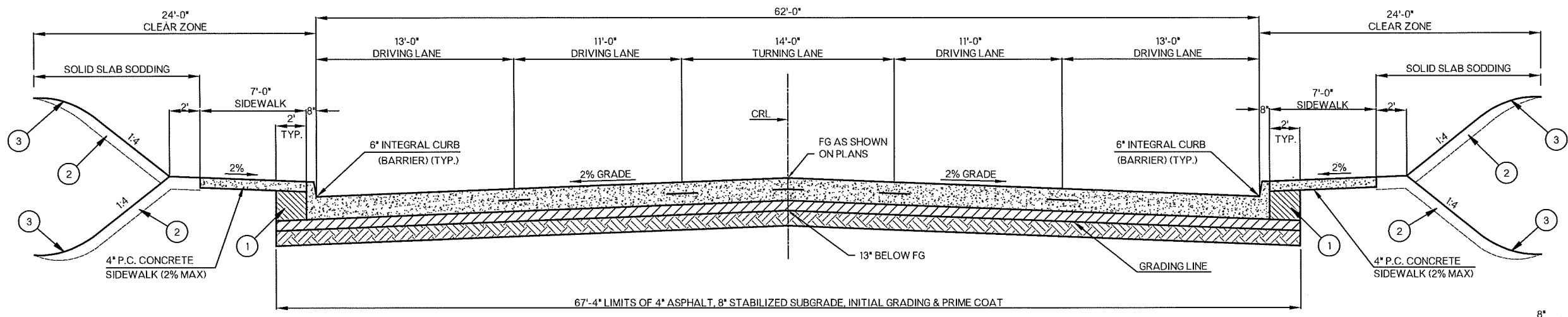


PRELIMINARY CONCEPTUAL PLANS
JUNE 29, 2018

OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED _____	DATE APPROVED _____
BY _____ CHIEF ENGINEER	BY _____ DIVISION ADMINISTRATOR
SWO _____ COUNTY PAYNE	PROJECT NO. 31012(04) HIGHWAY SH 51 SHEET NO. 0001

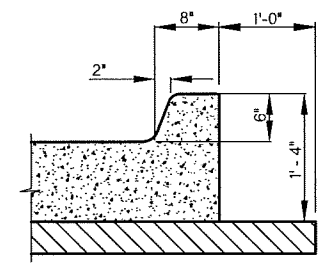
2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN
APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.

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TYPICAL SECTION NO. 1
 STA. 918+36.18 TO STA. 1029+16.04

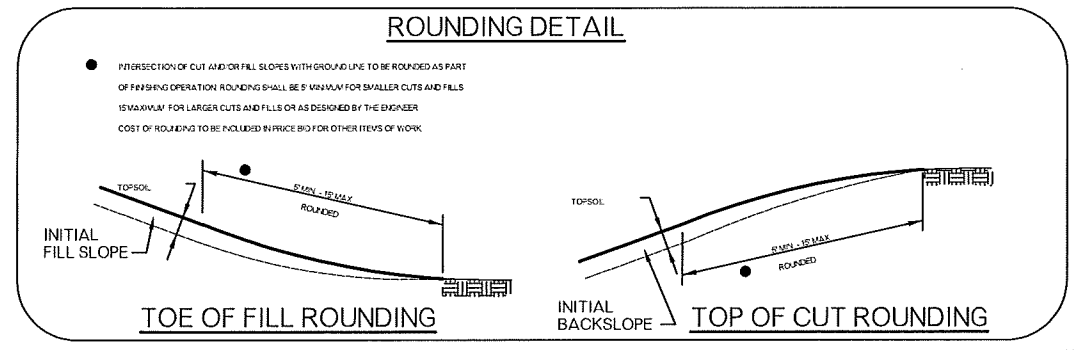
PAVEMENT REQUIREMENT	
13" PAVT. STRUCTURE	DRIVING LANES
SURFACE COURSE	9" DOWEL JOINTED P.C. CONCRETE
BASE COURSE	4" CEMENT TREATED BASE



6" INTEGRAL CURB BARRIER
 NOT TO SCALE

- 1 BACKFILL NOTE: TO BE BACKFILLED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- 2 TOPSOIL NOTE: THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH THE OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

 THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASSLINE BALANCE.
- 3 SEE ROUNDING DETAIL THIS SHEET.

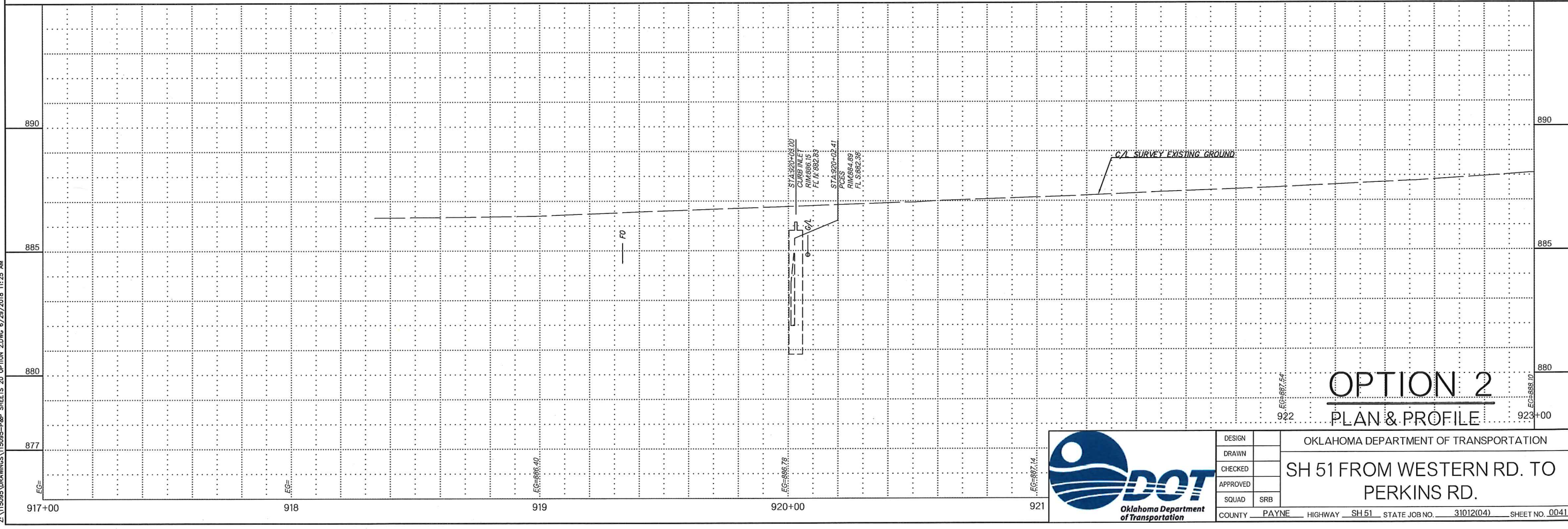
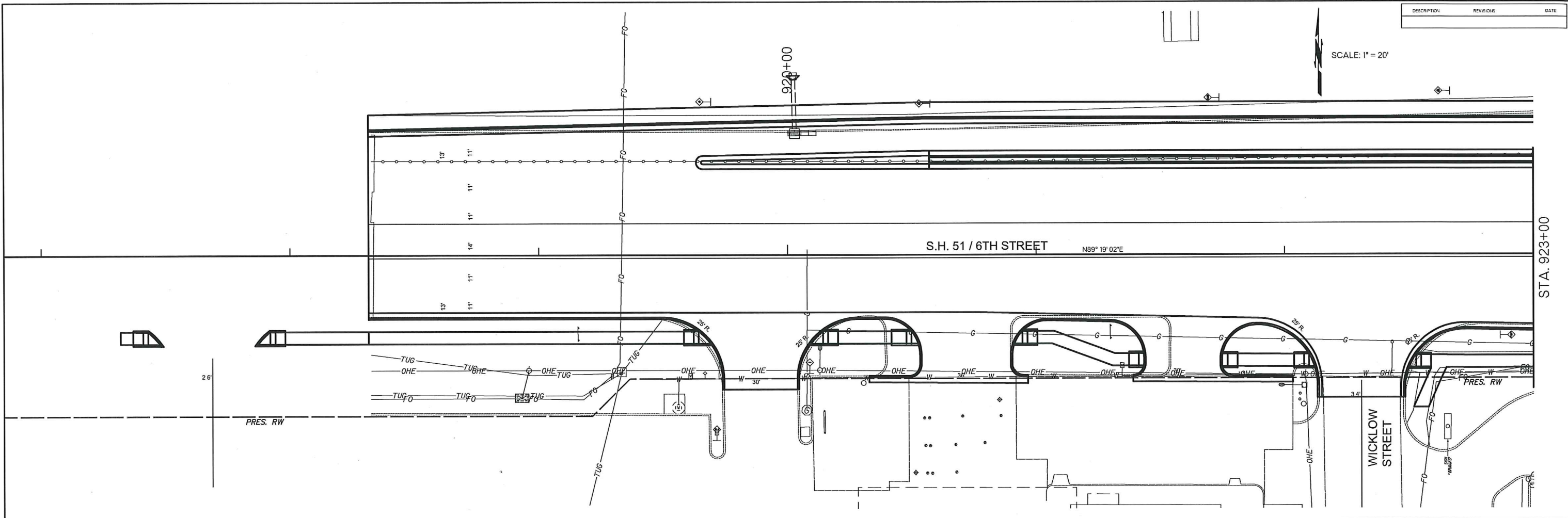


DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION TYPICALS
DRAWN		
CHECKED		
APPROVED		
SQUAD	SRB	
COUNTY	PAYNE	HIGHWAY SH 51
		STATE JOB NO. 31012(04)
		SHEET NO. 0002

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DESCRIPTION	REVISIONS	DATE

SCALE: 1" = 20'



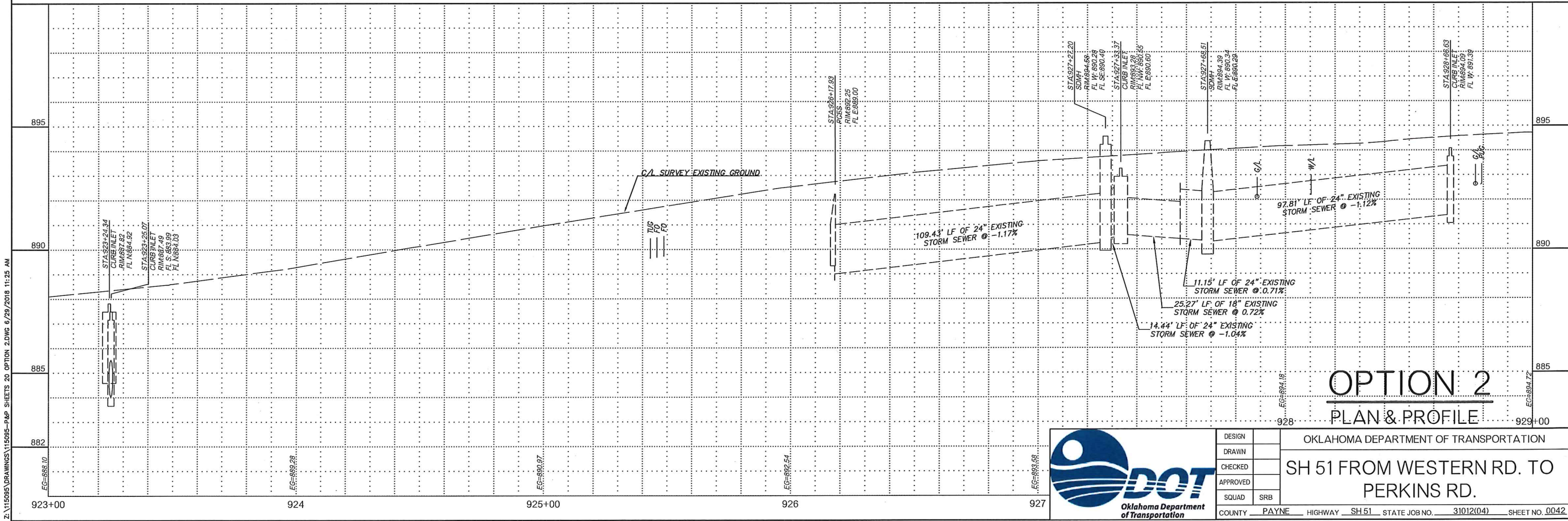
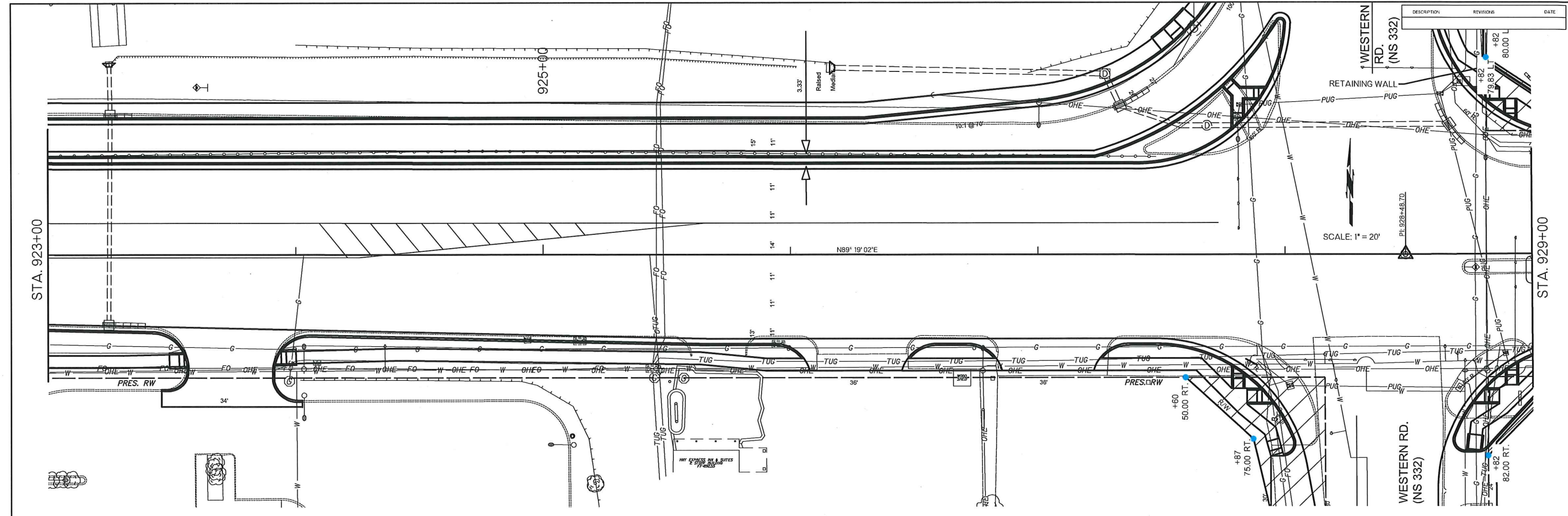
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0041

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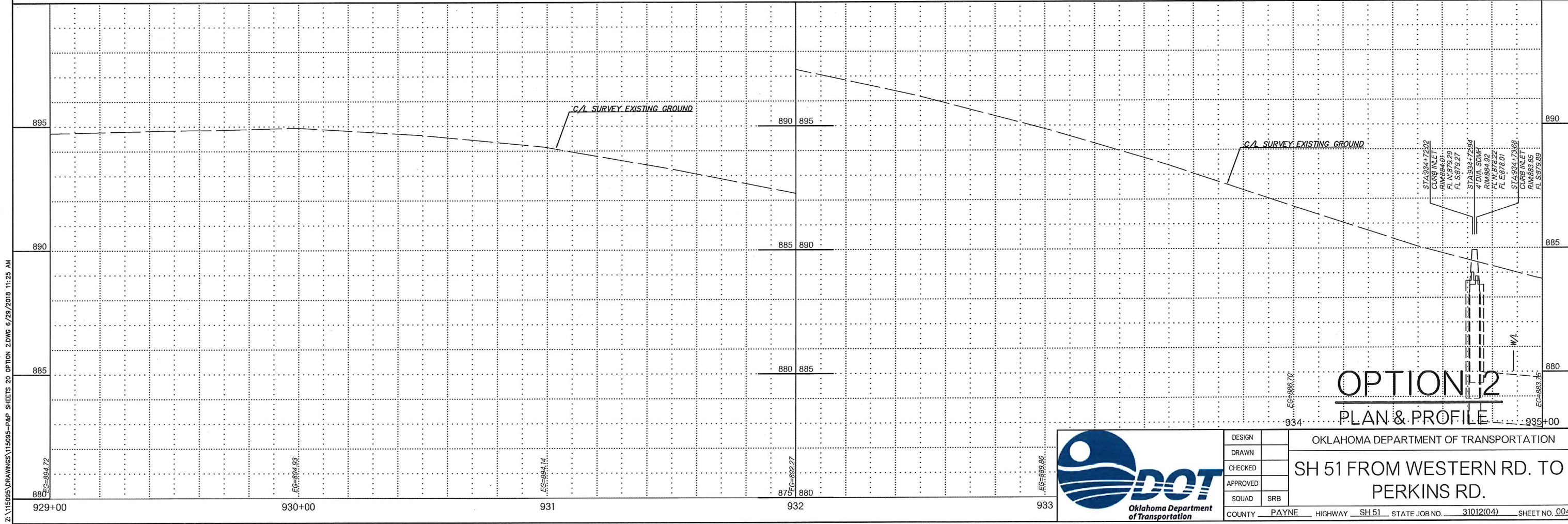
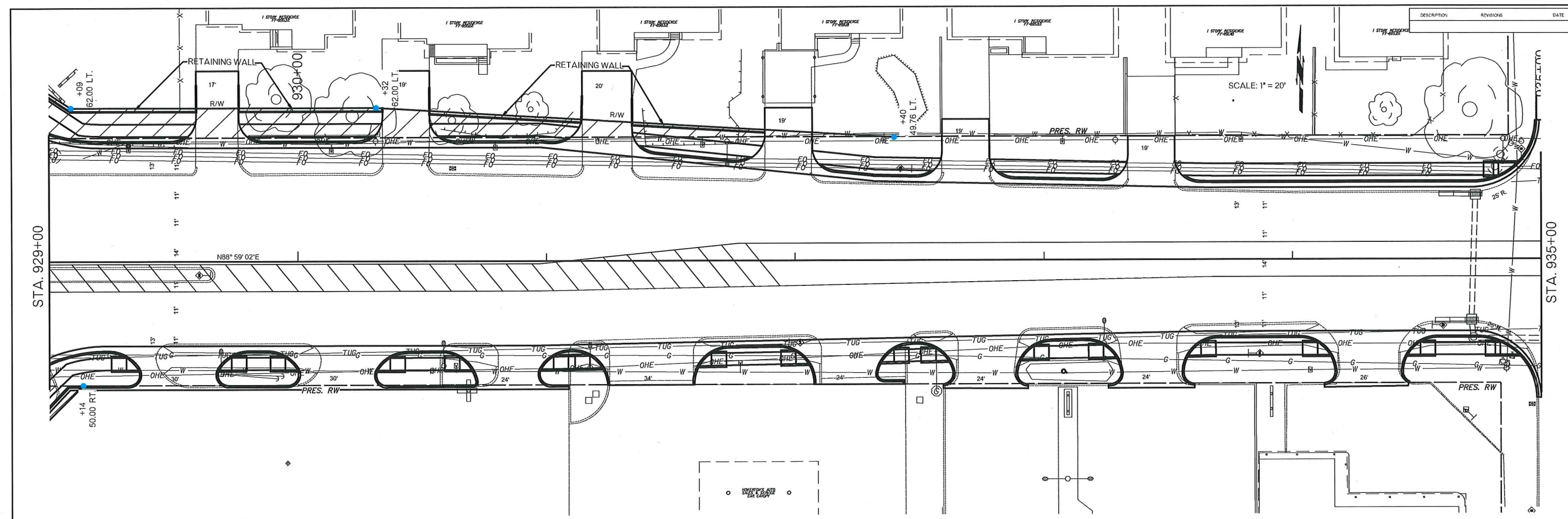
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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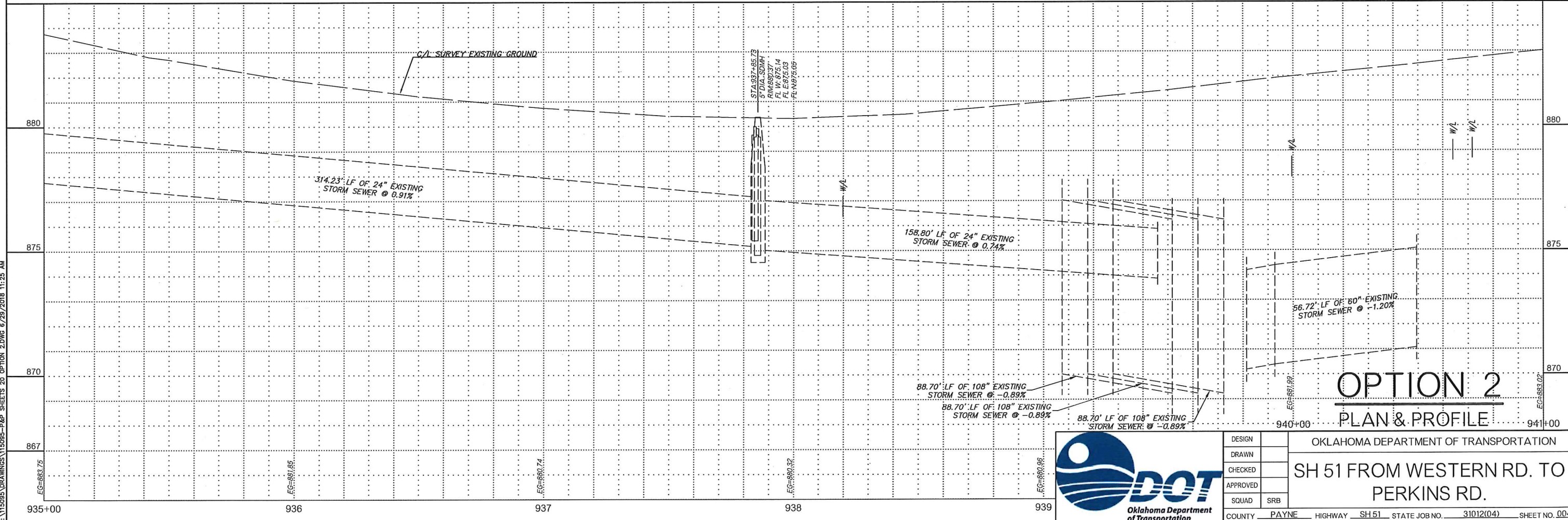
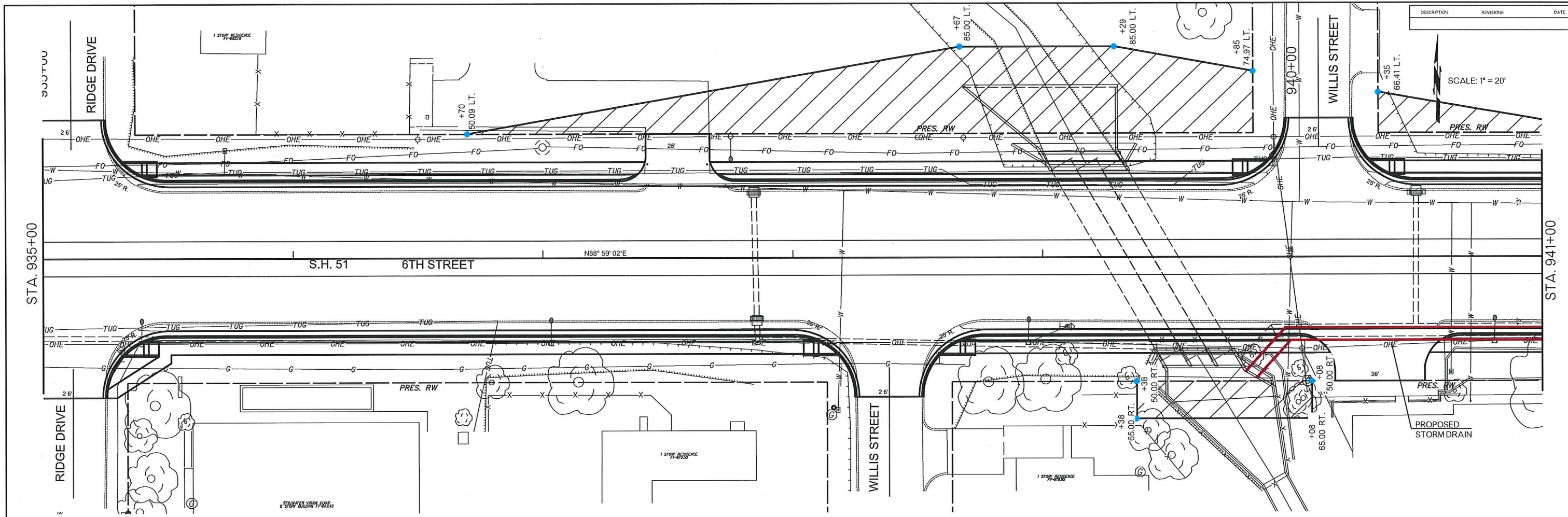
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0043

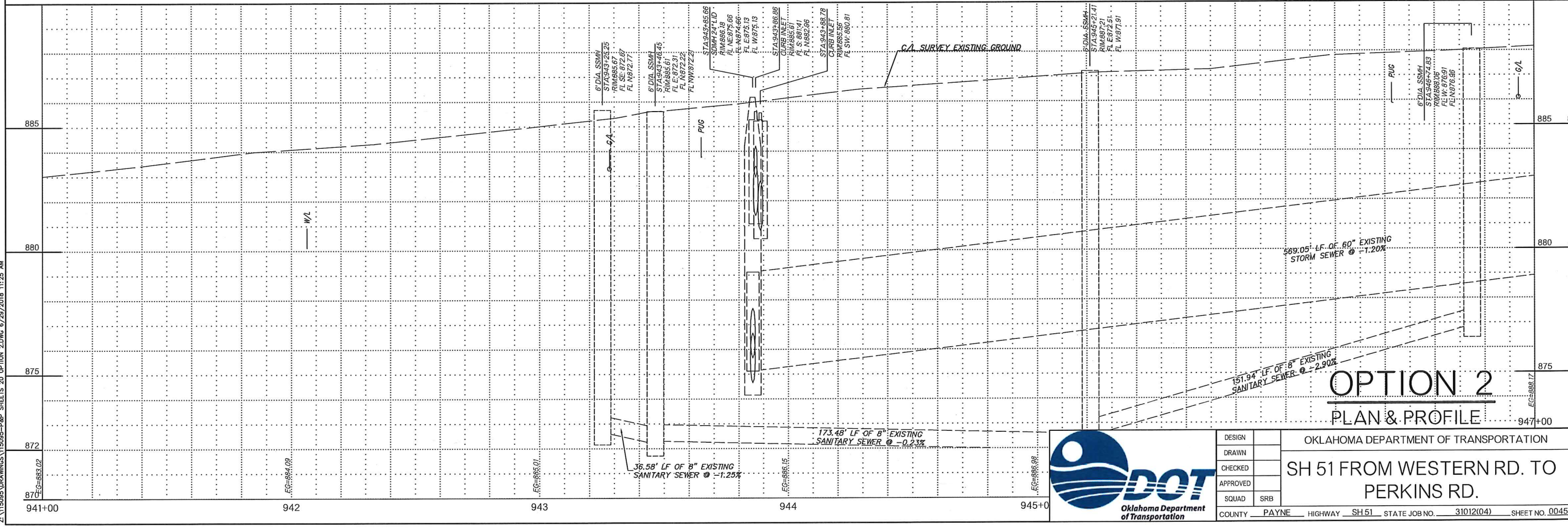
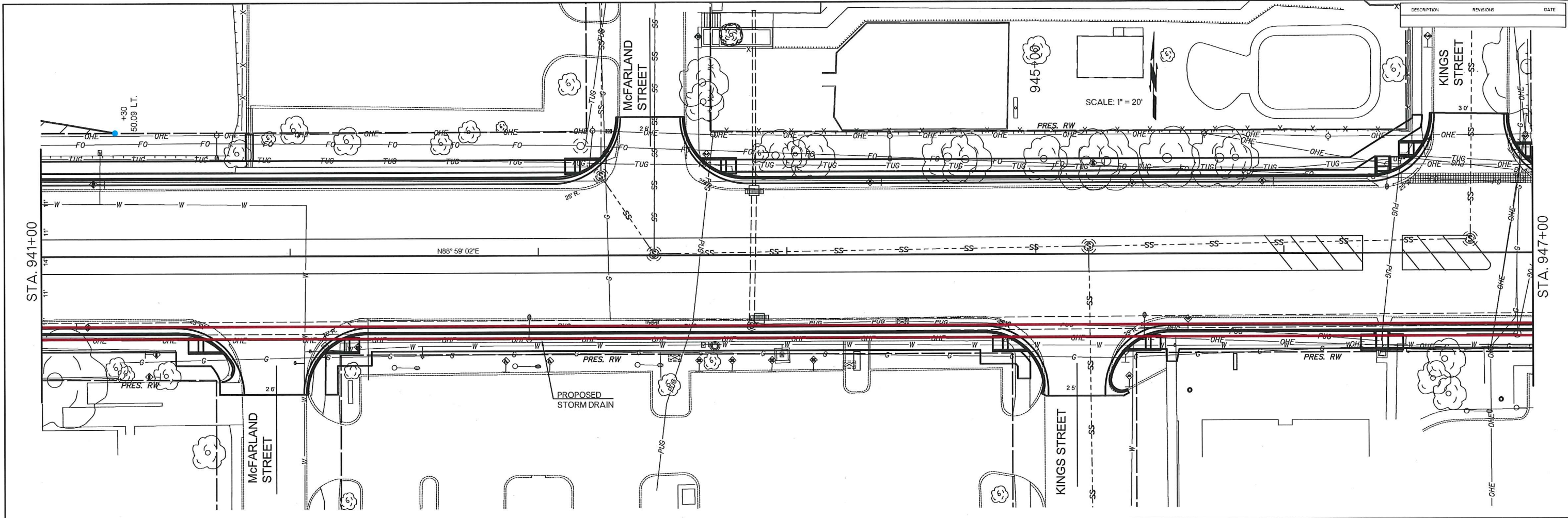
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DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0044



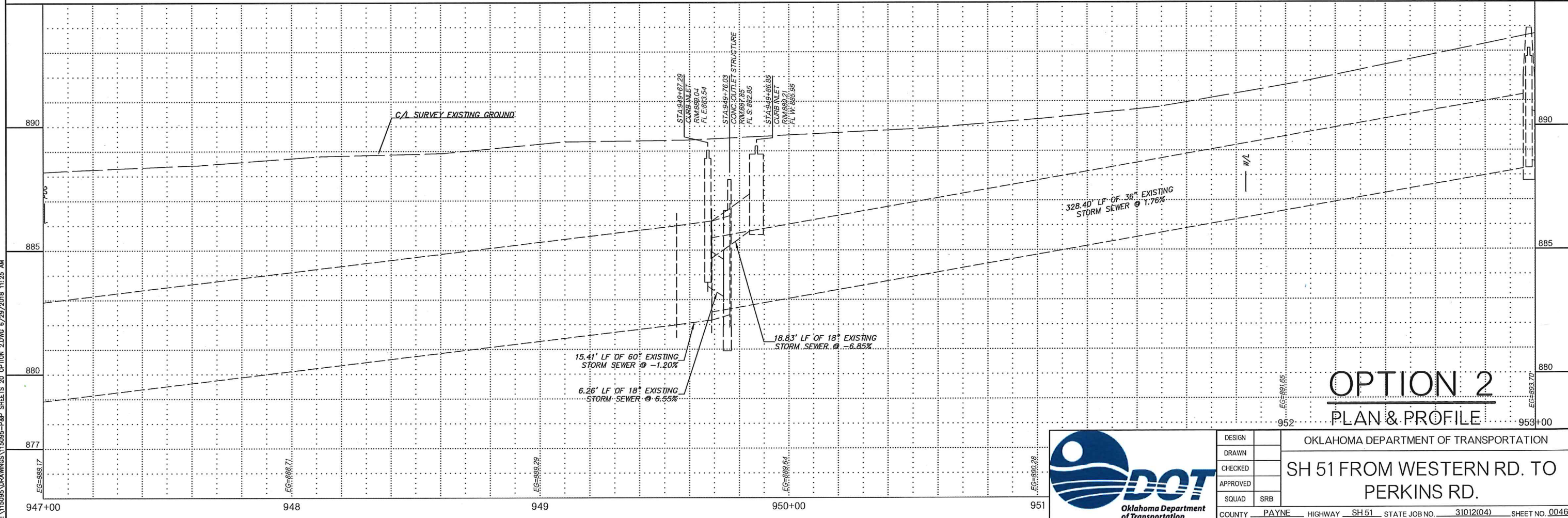
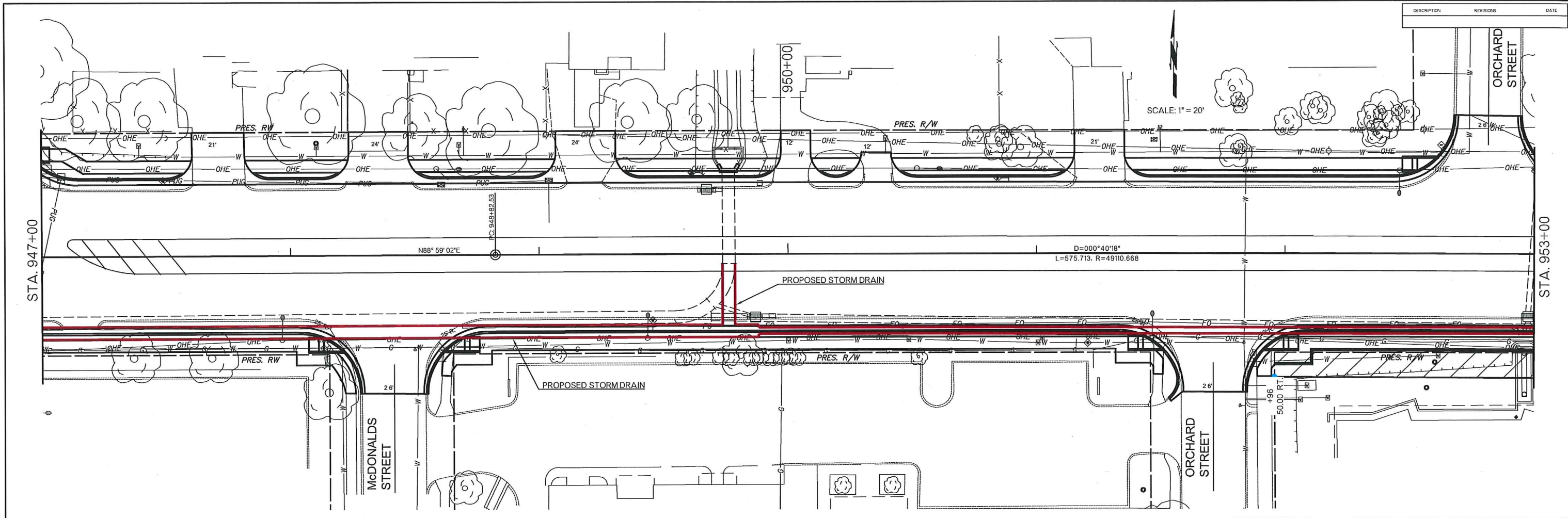
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0045

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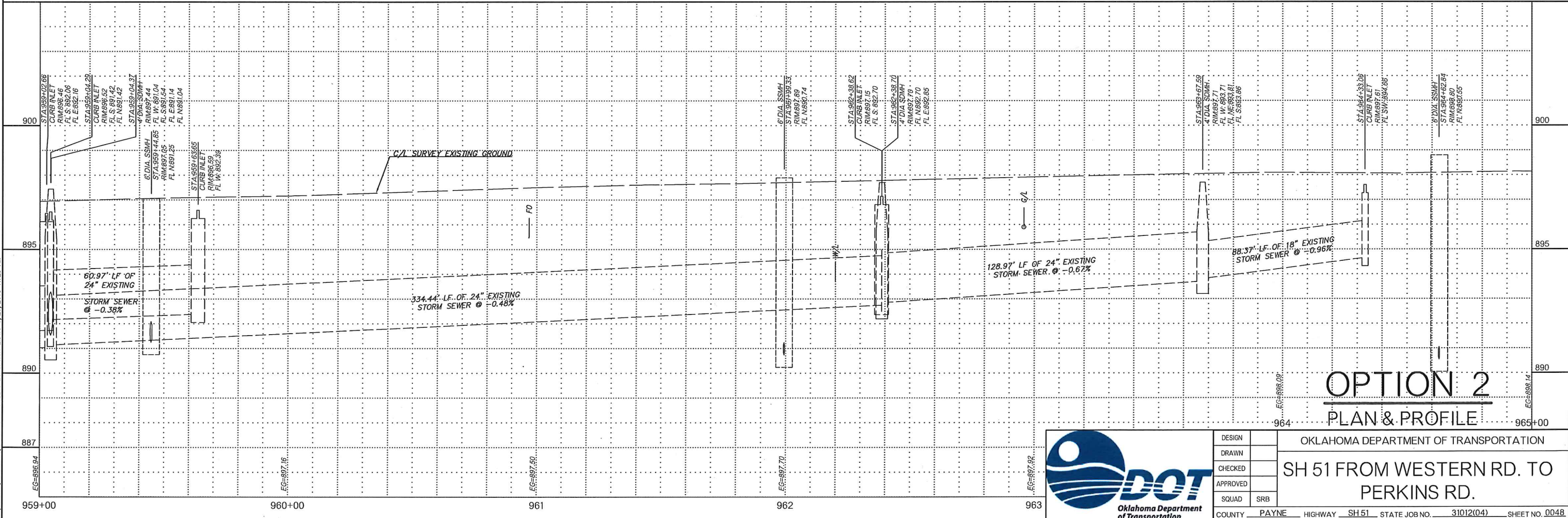
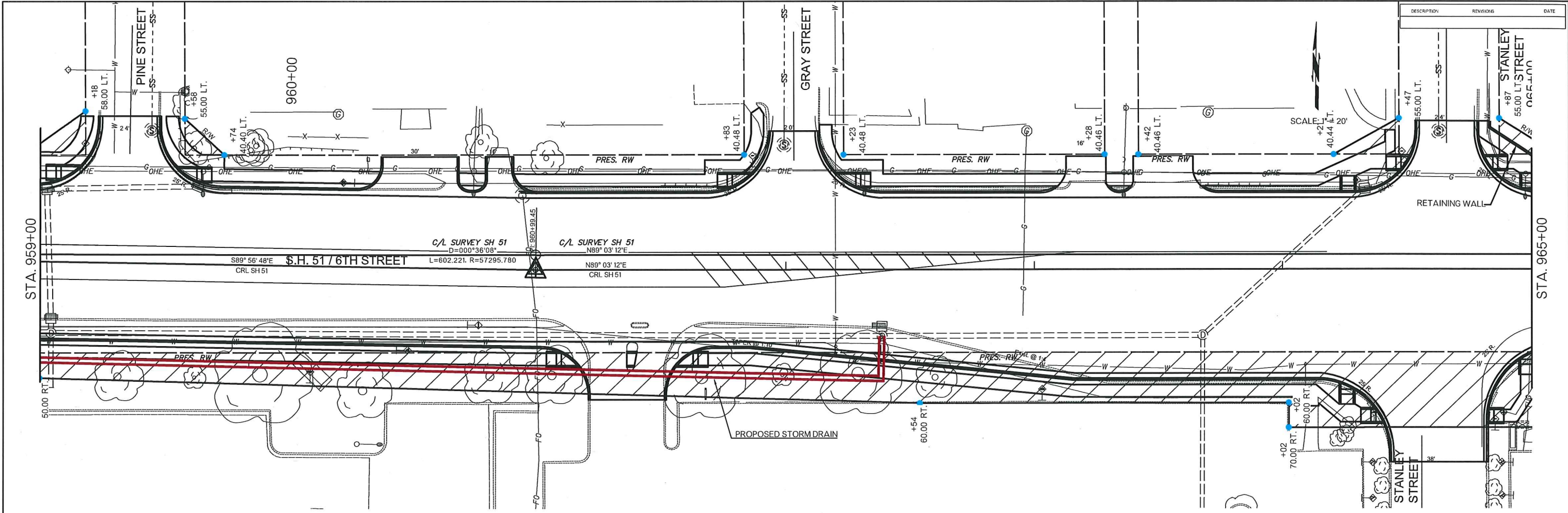
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OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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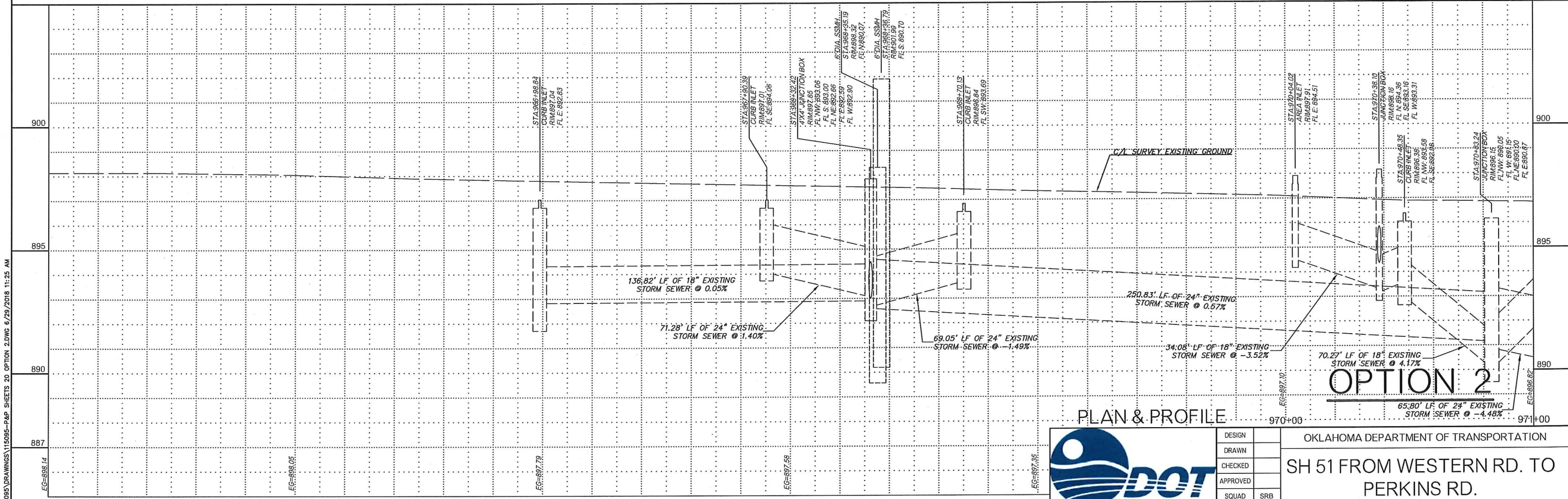
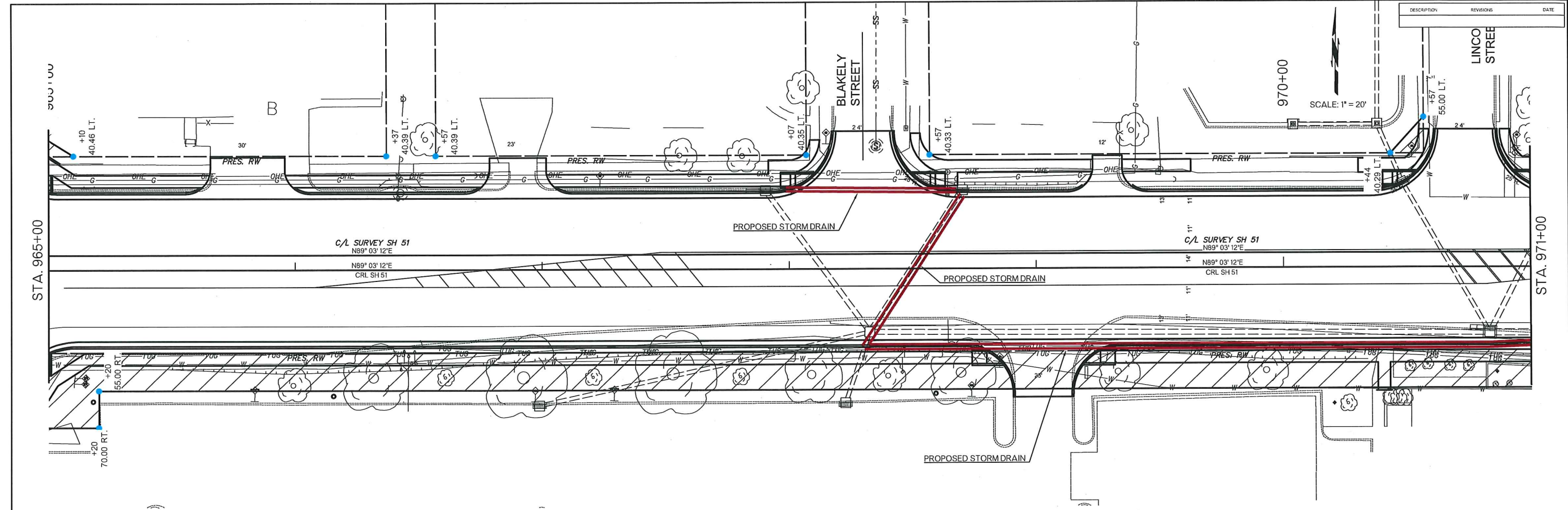
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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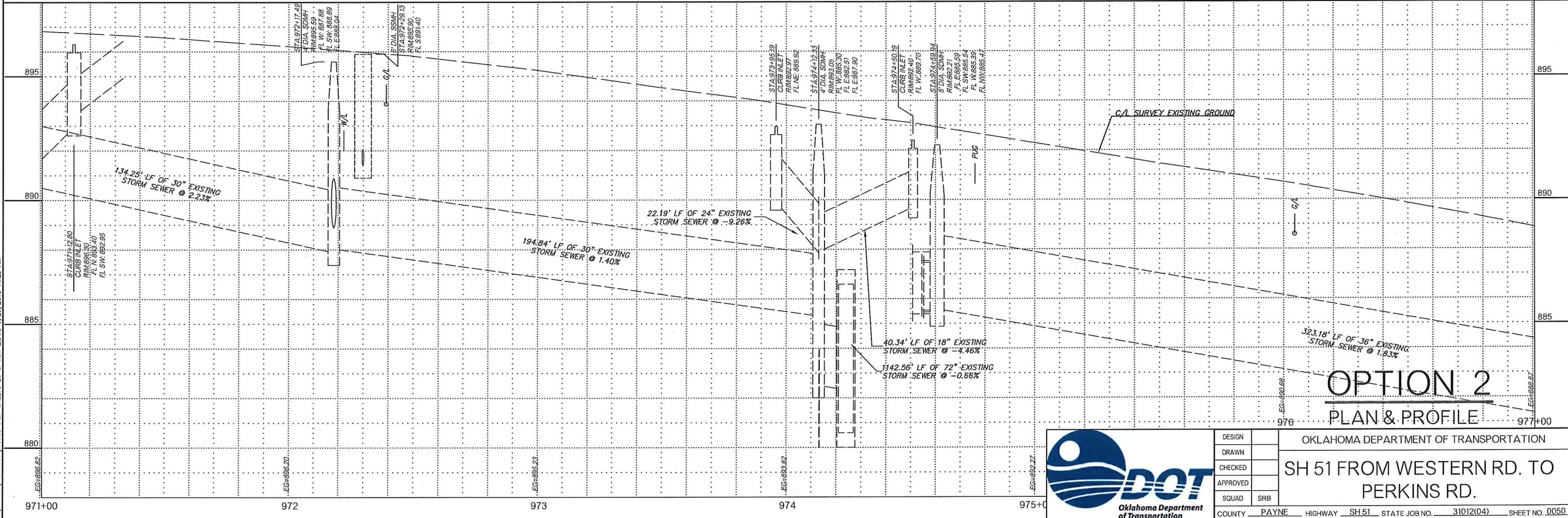
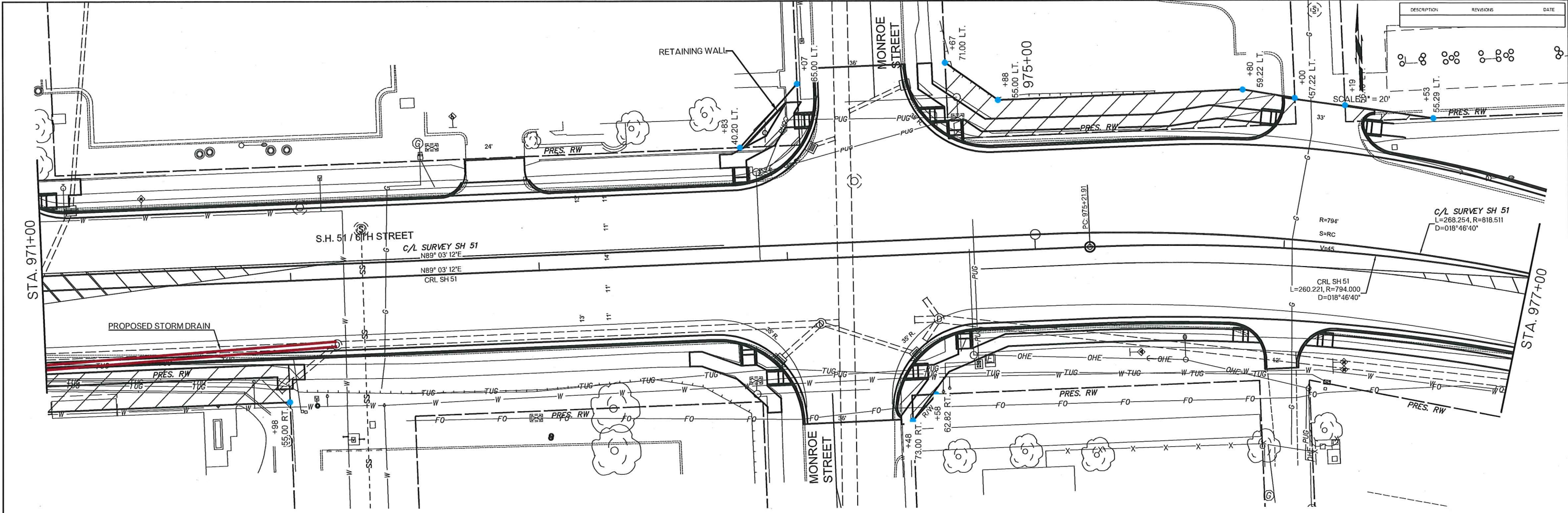
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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OPTION 2
PLAN & PROFILE

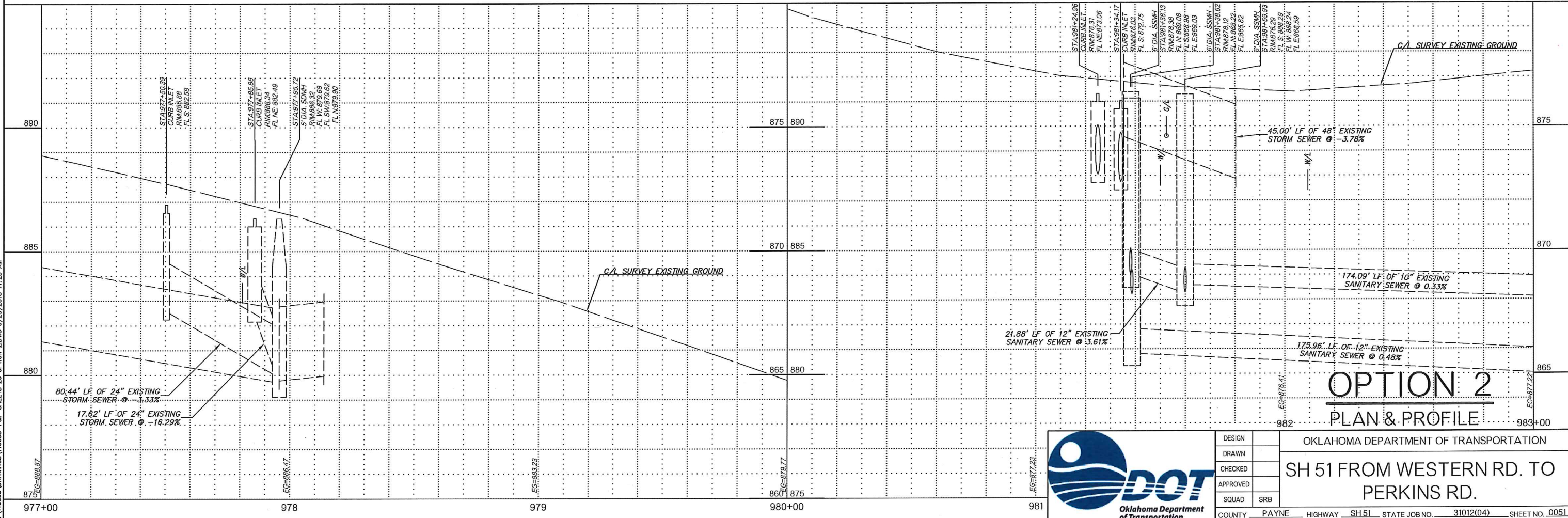
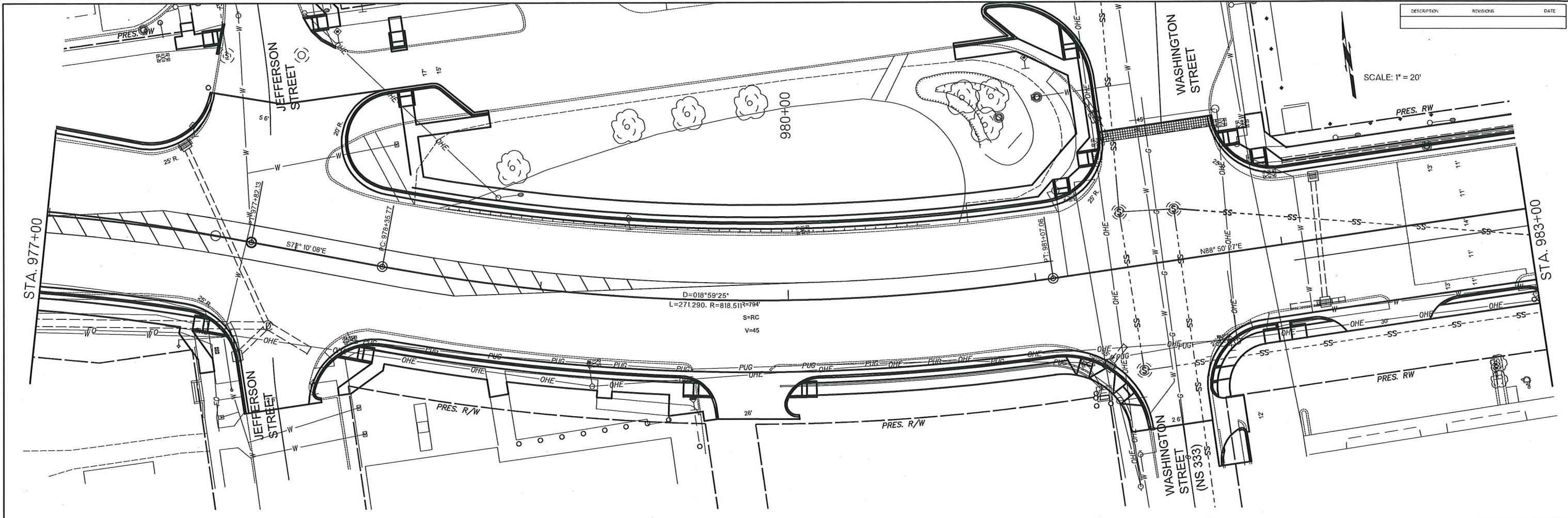


DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
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APPROVED		HIGHWAY	SH 51
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DESCRIPTION	REVISIONS	DATE

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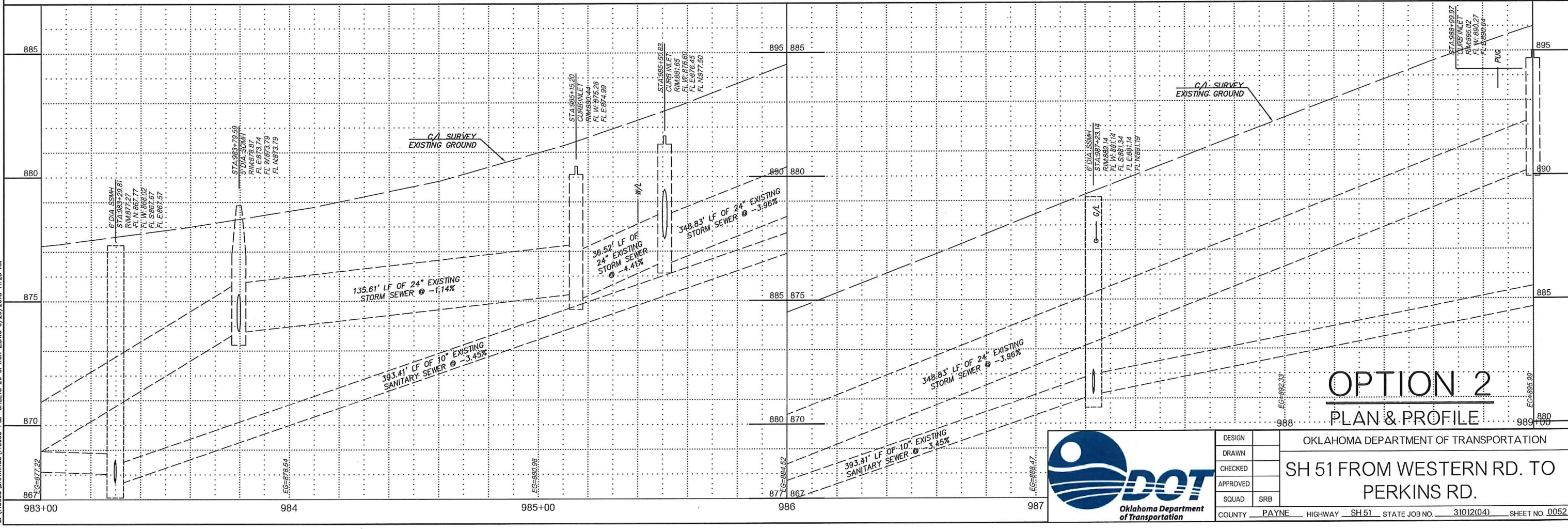
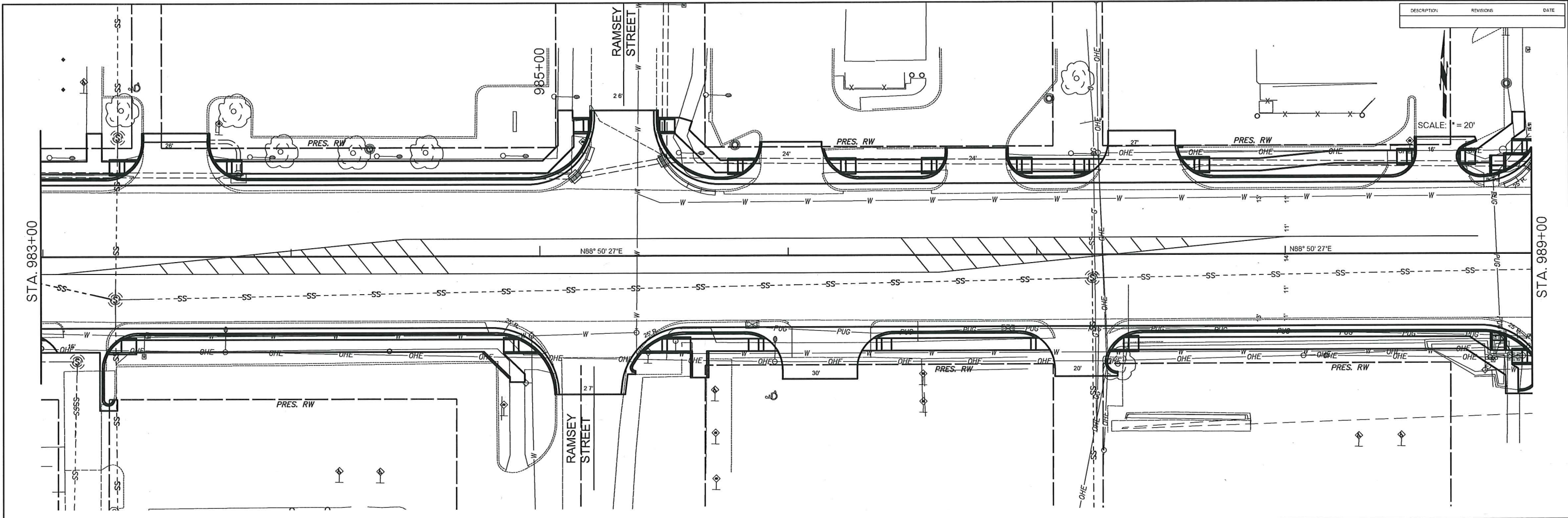
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PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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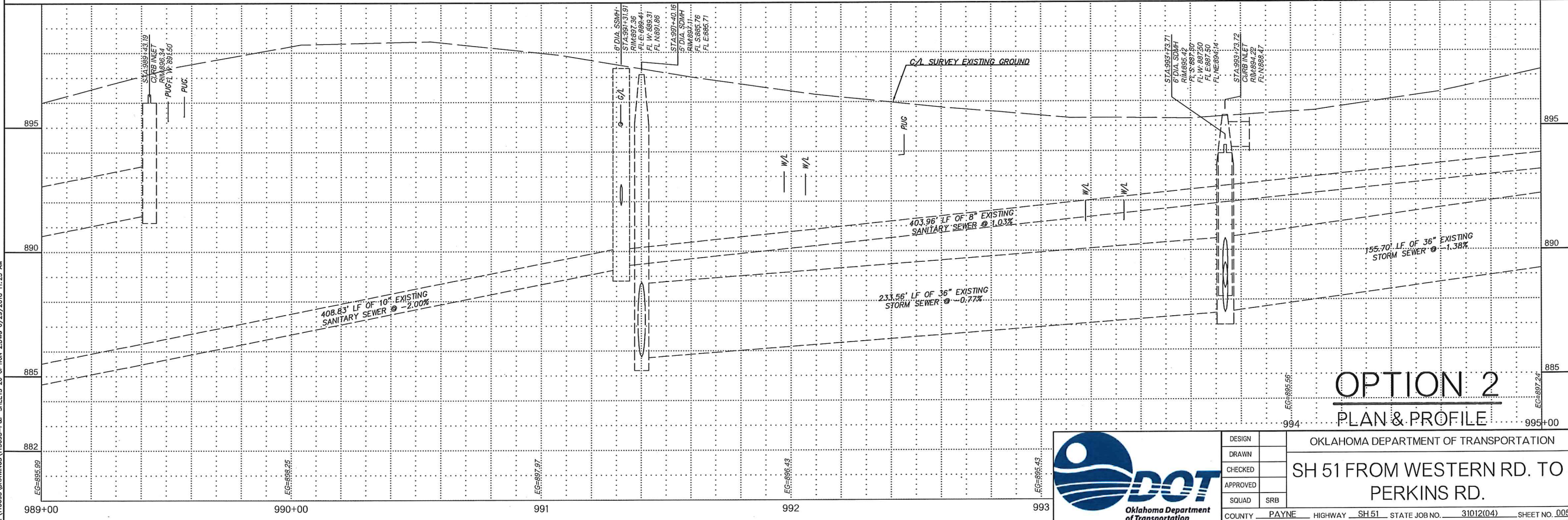
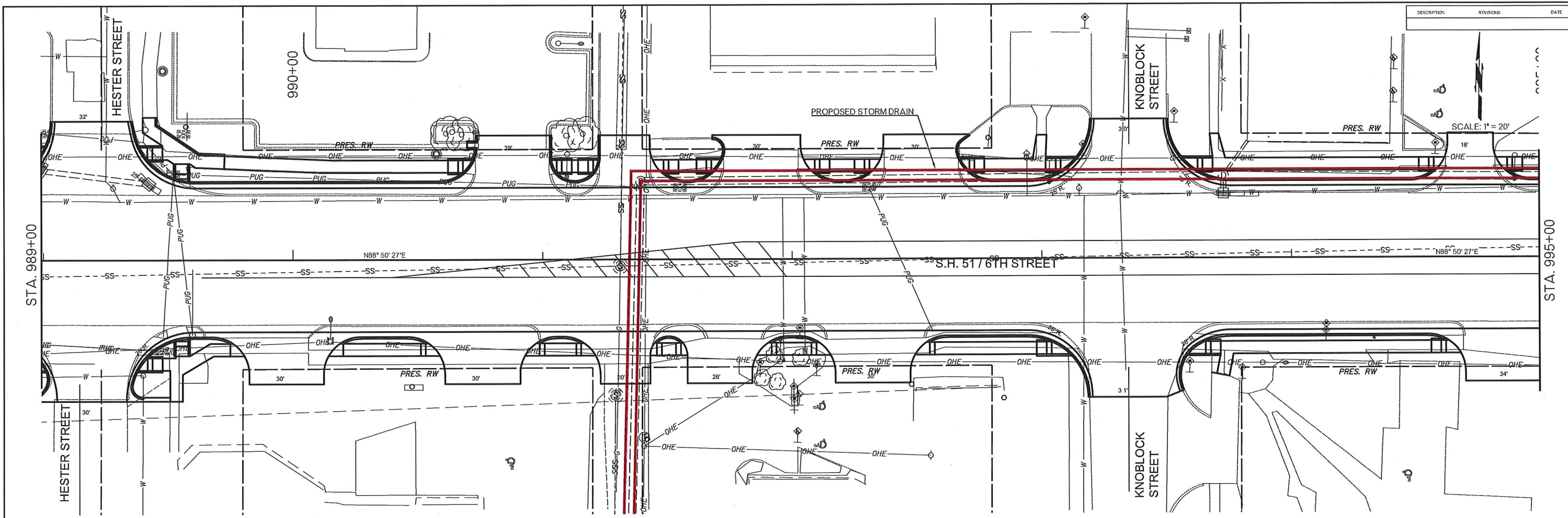
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
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CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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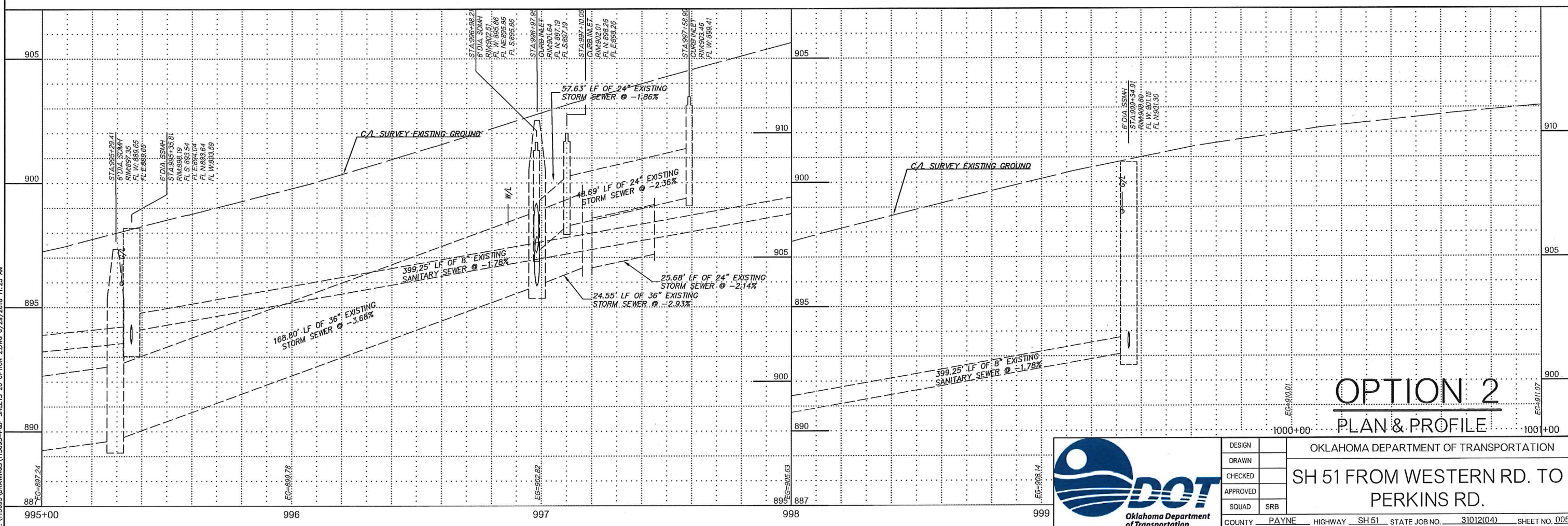
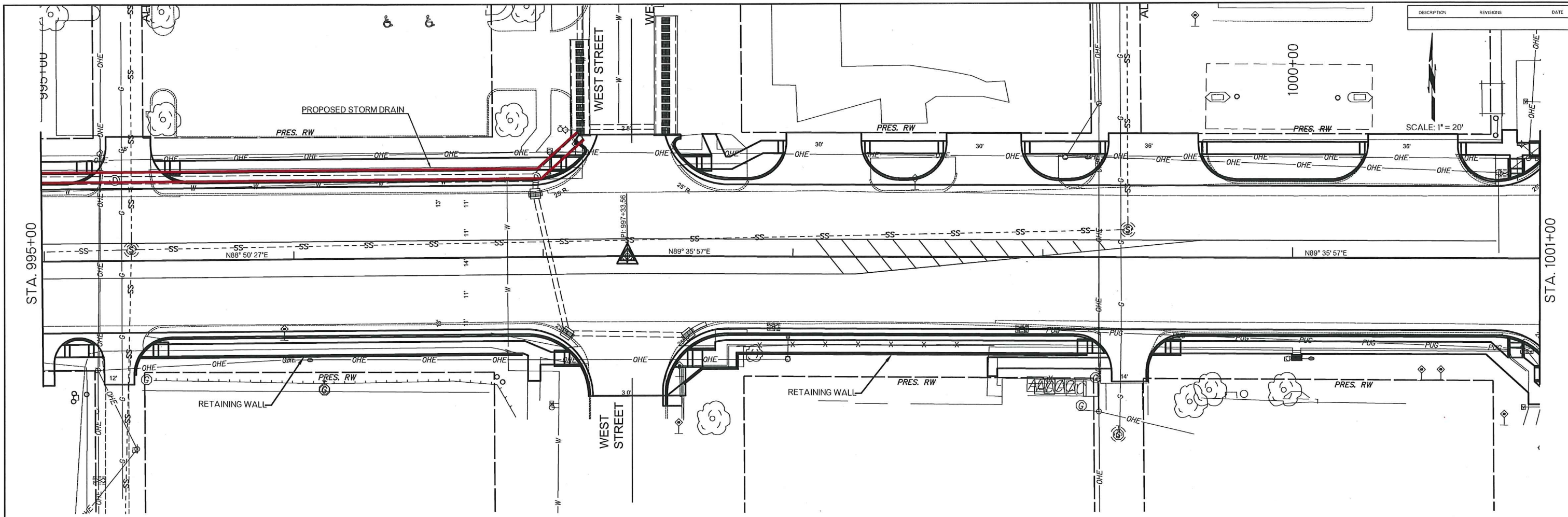
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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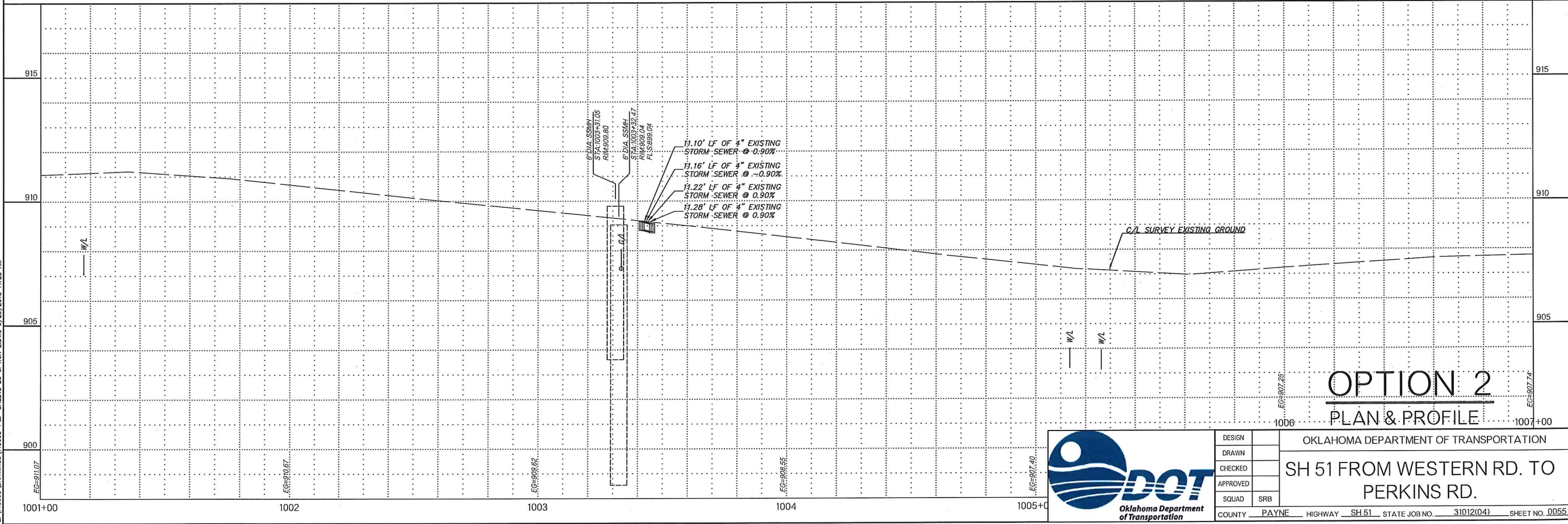
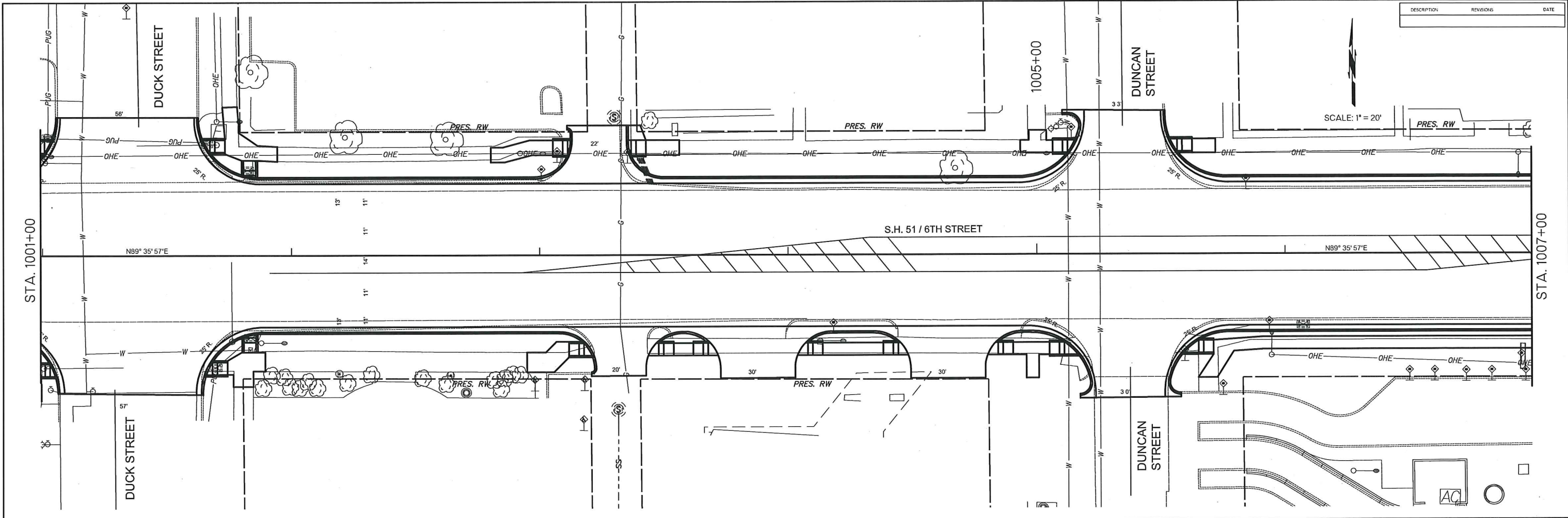
PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
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DESCRIPTION	REVISIONS	DATE



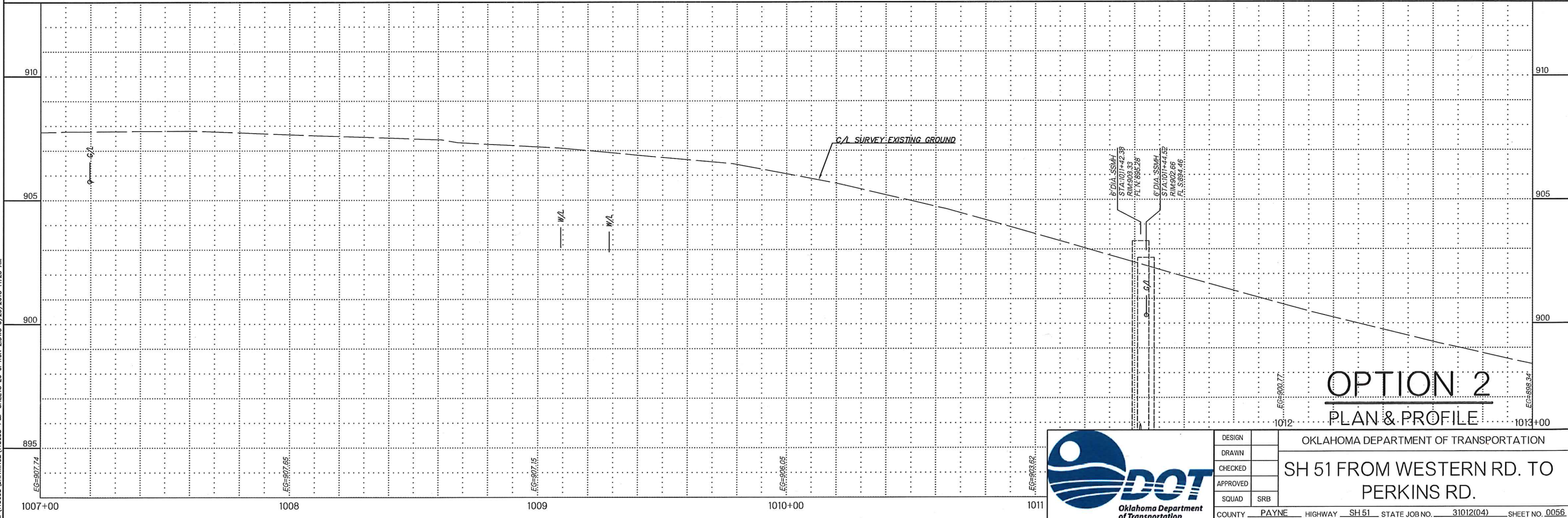
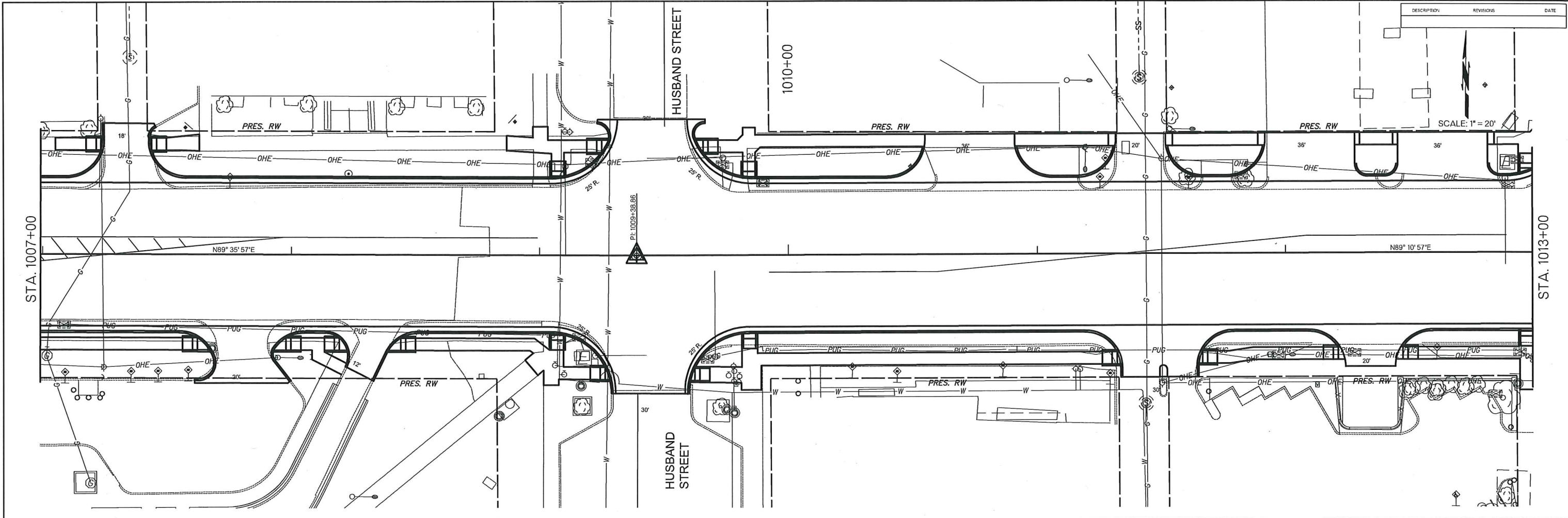
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
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APPROVED		HIGHWAY	SH 51
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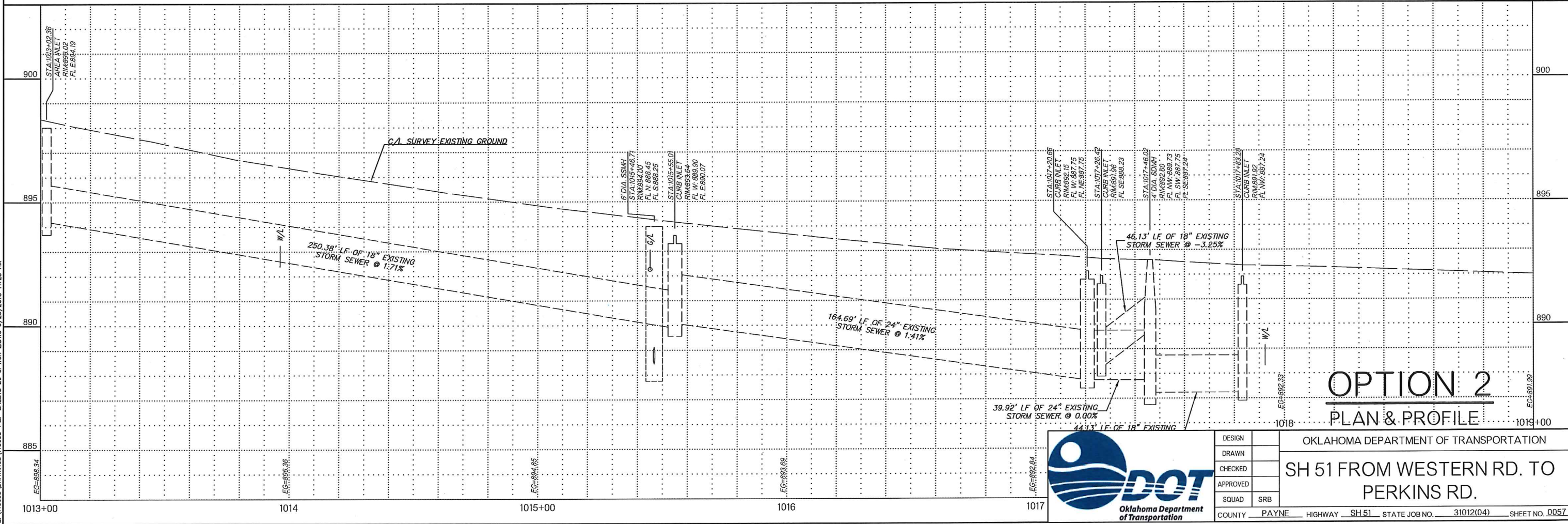
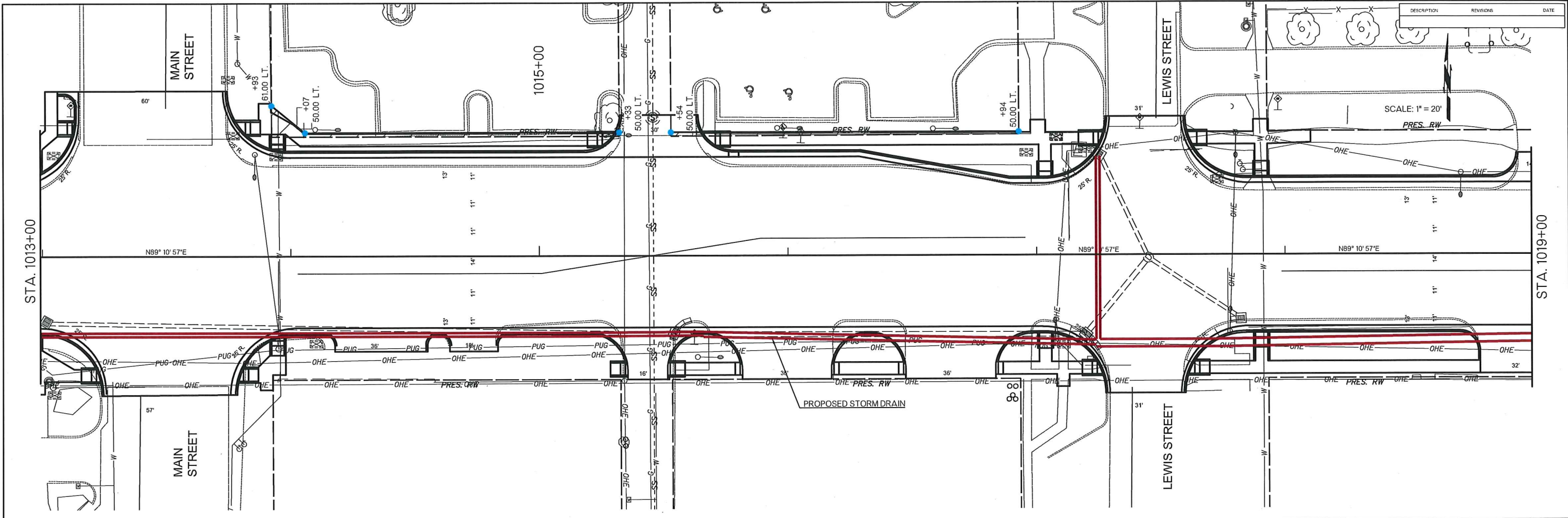
OPTION 2
PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0056

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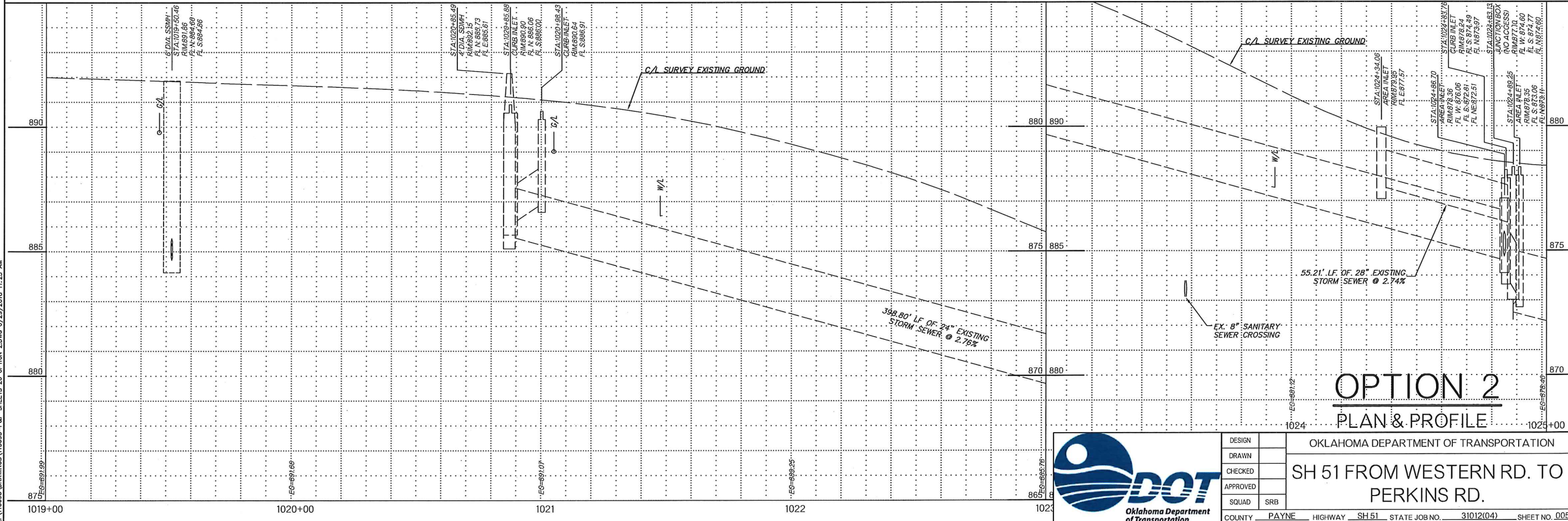
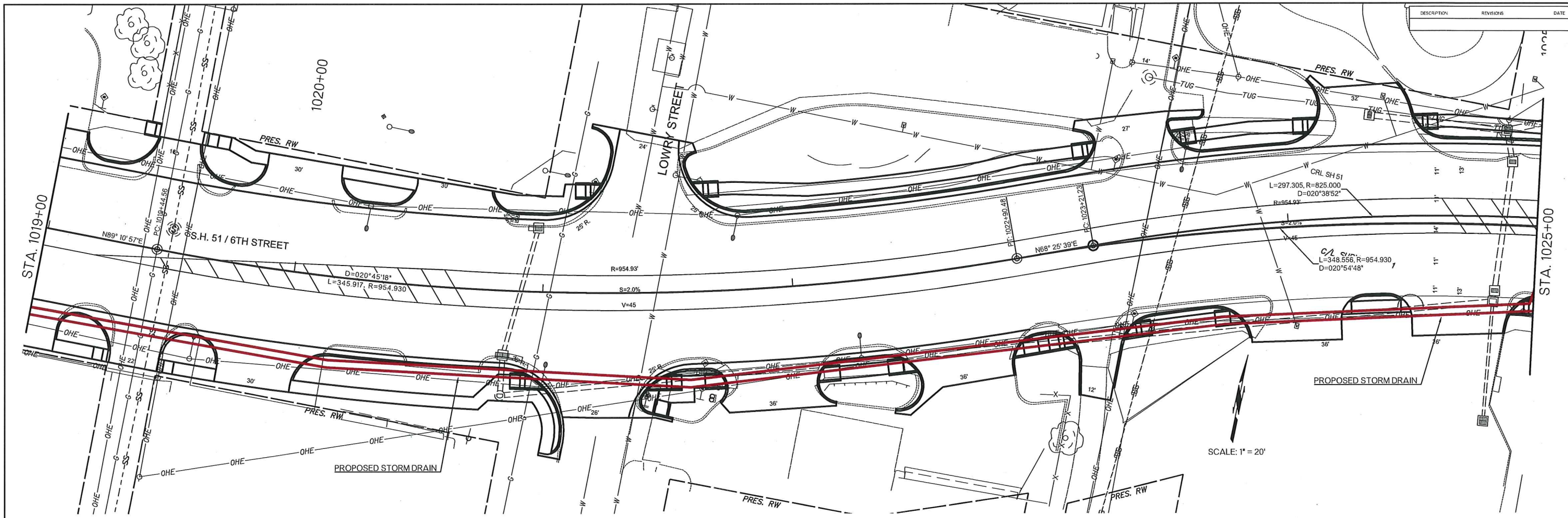
OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0057

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OPTION 2

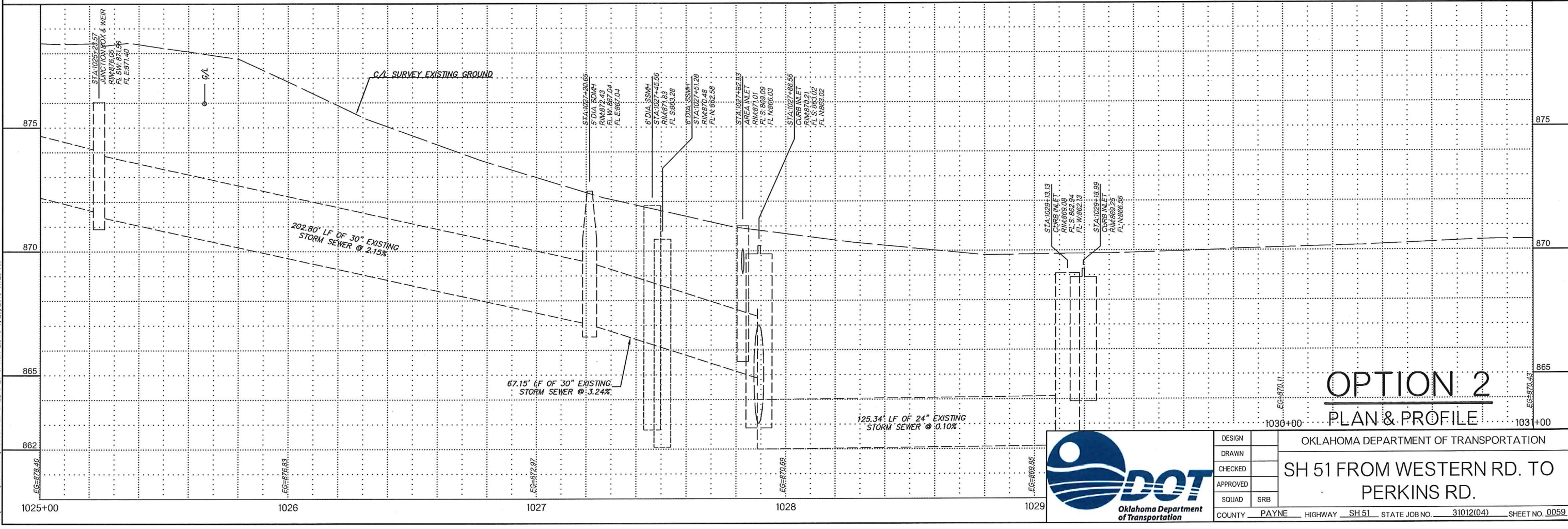
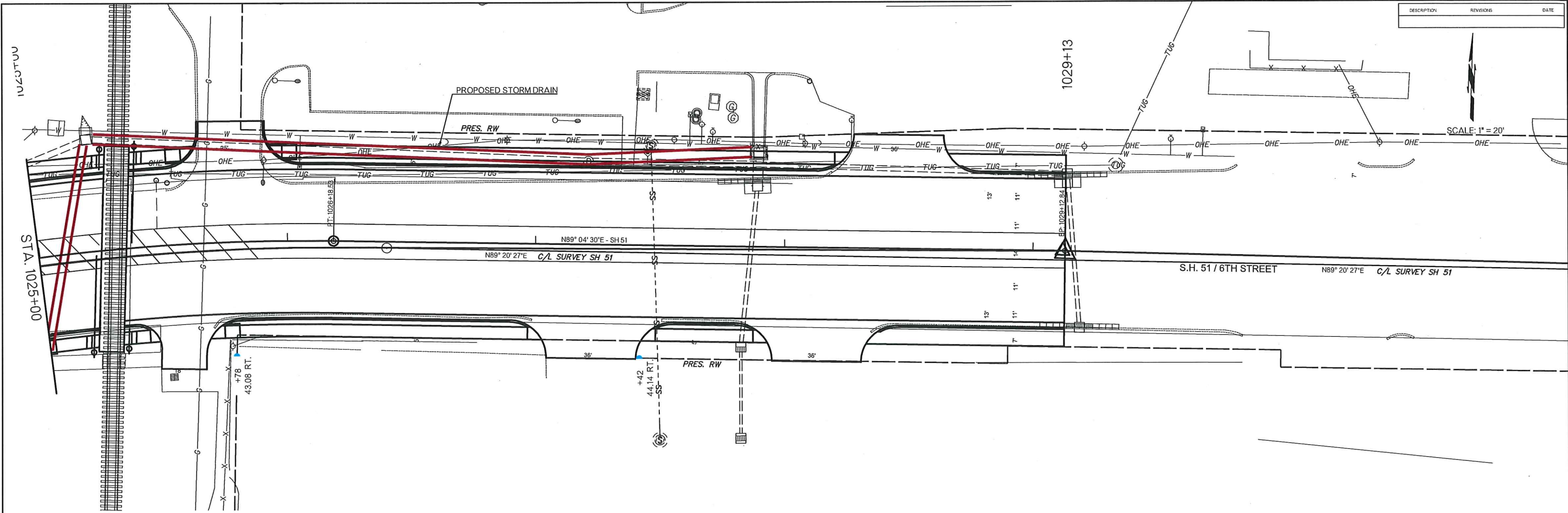
PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0058

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DESCRIPTION	REVISIONS	DATE



OPTION 2

PLAN & PROFILE



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0059

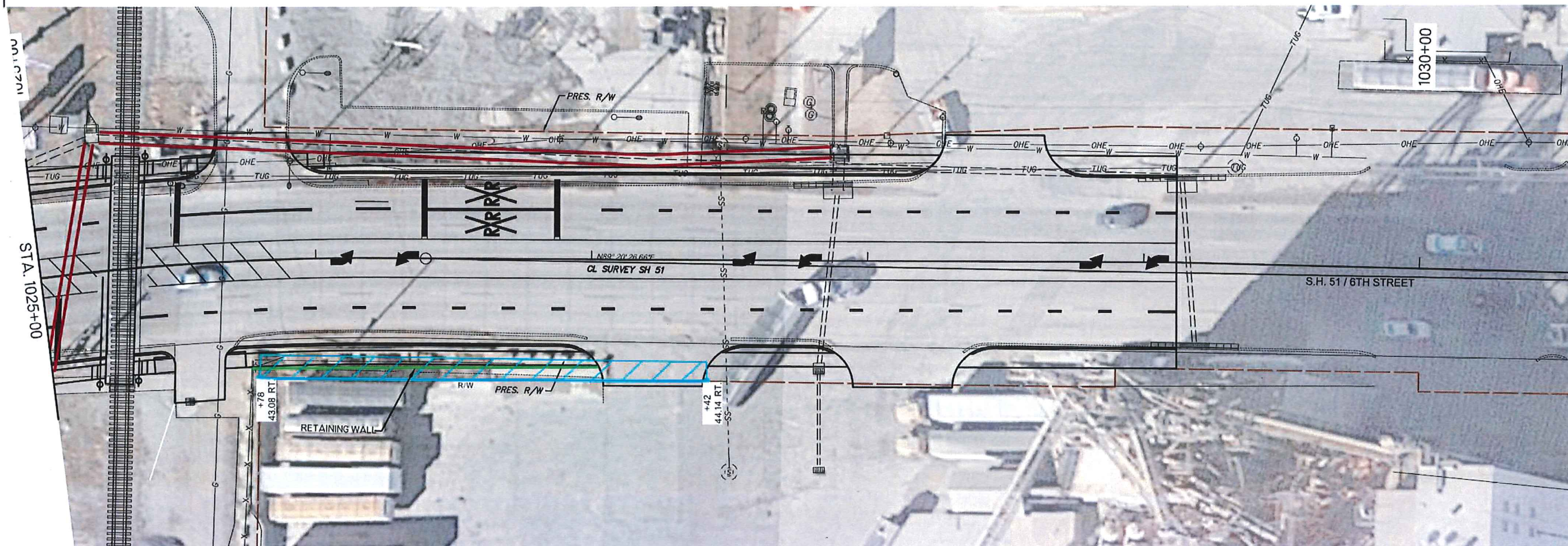
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DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
 WATER
 TELEPHONE UNDERGROUND
 OVERHEAD ELECTRIC

UTILITIES TO BE MOVED:
 STORM SEWER



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
 N/A

UTILITIES TO REMAIN IN PLACE:
 N/A

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 1
 UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0040

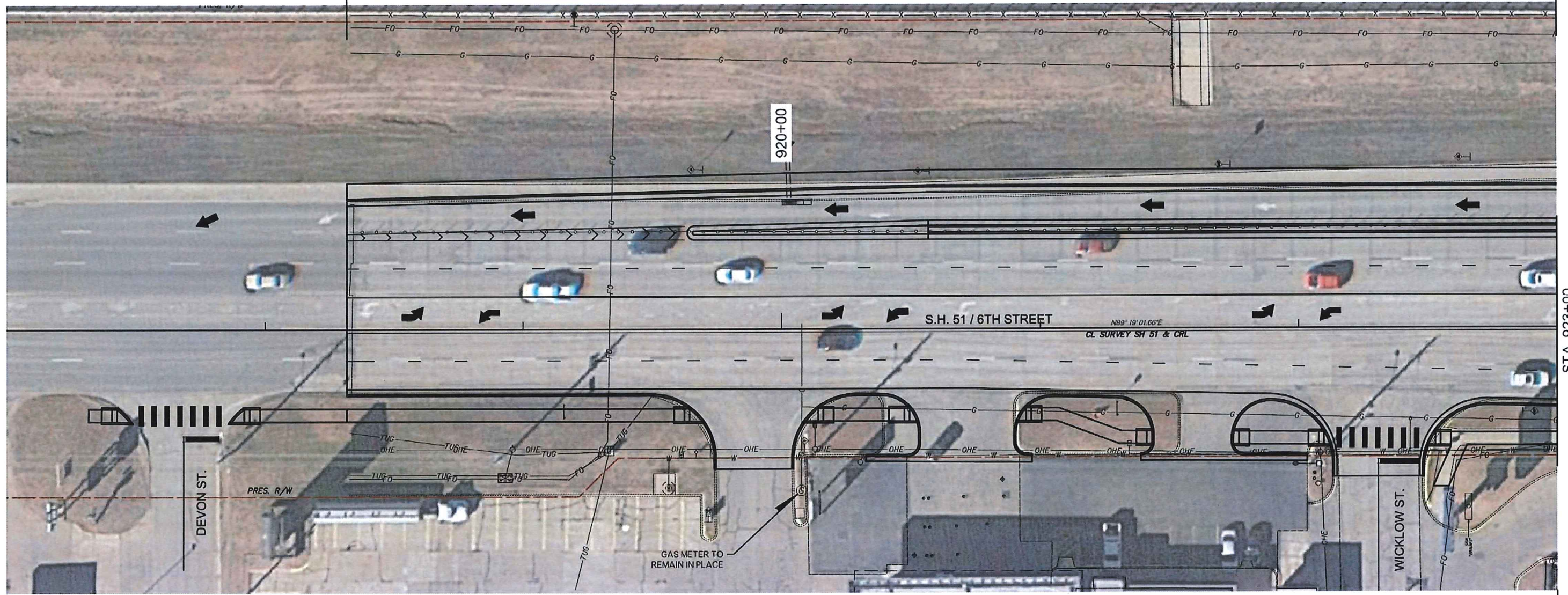
DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
FIBER OPTIC
GAS

UTILITIES TO BE MOVED:
N/A

SCALE: 1" = 20'



STA. 923+00

SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
FIBER OPTIC
TELEPHONE UNDERGROUND
WATER
OVERHEAD ELECTRIC
GAS

UTILITIES TO BE MOVED:
N/A

LEGEND

PROPOSED RELOCATED UTILITIES			
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2

UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0060

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DESCRIPTION	REVISIONS	DATE
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NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
 GAS
 FIBER OPTIC
 STORM SEWER

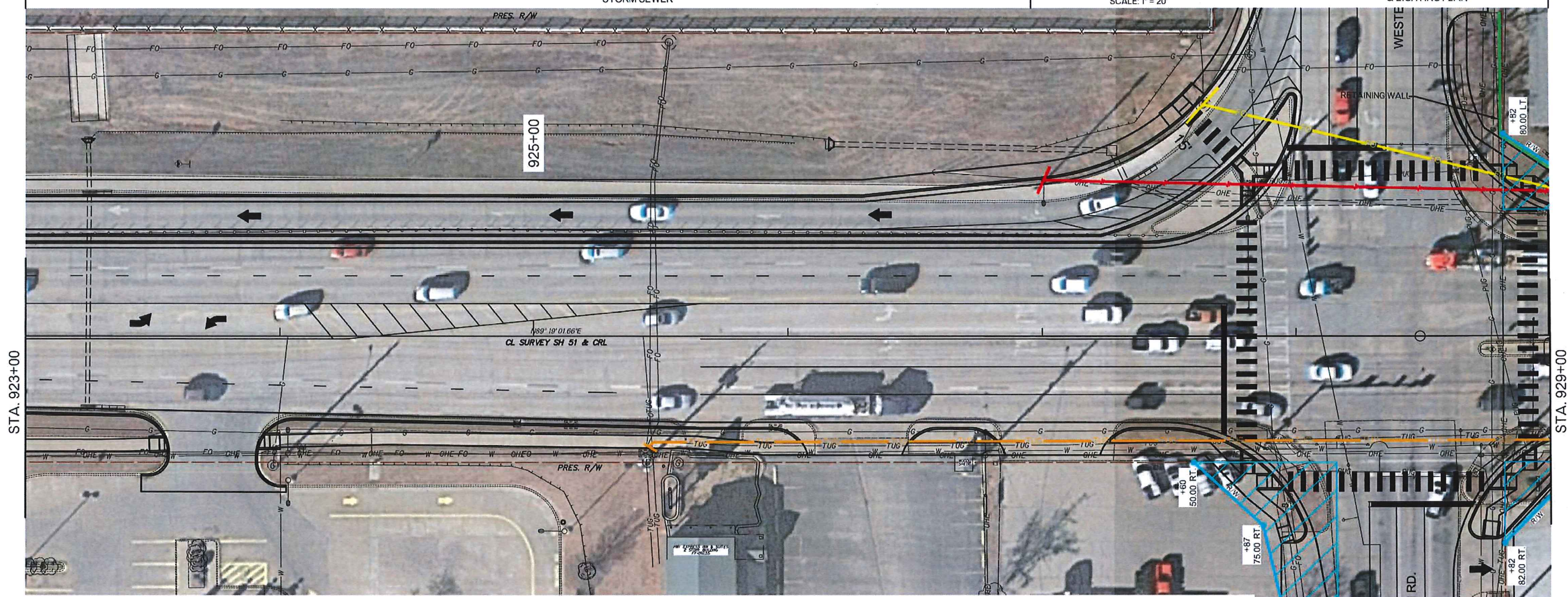
UTILITIES TO BE MOVED:
 N/A

UTILITIES TO REMAIN IN PLACE:
 GAS
 STORM SEWER

UTILITIES TO BE MOVED:
 OVERHEAD ELECTRIC
 FIBER OPTIC

● PUG IS ASSOCIATED WITH TRAFFIC SIGNALS AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
 FIBER OPTIC
 WATER
 GAS
 OVERHEAD ELECTRIC

UTILITIES TO BE MOVED:
 TELEPHONE UNDERGROUND

● PUG IS ASSOCIATED WITH TRAFFIC SIGNALS AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES			
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
 UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0061

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DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

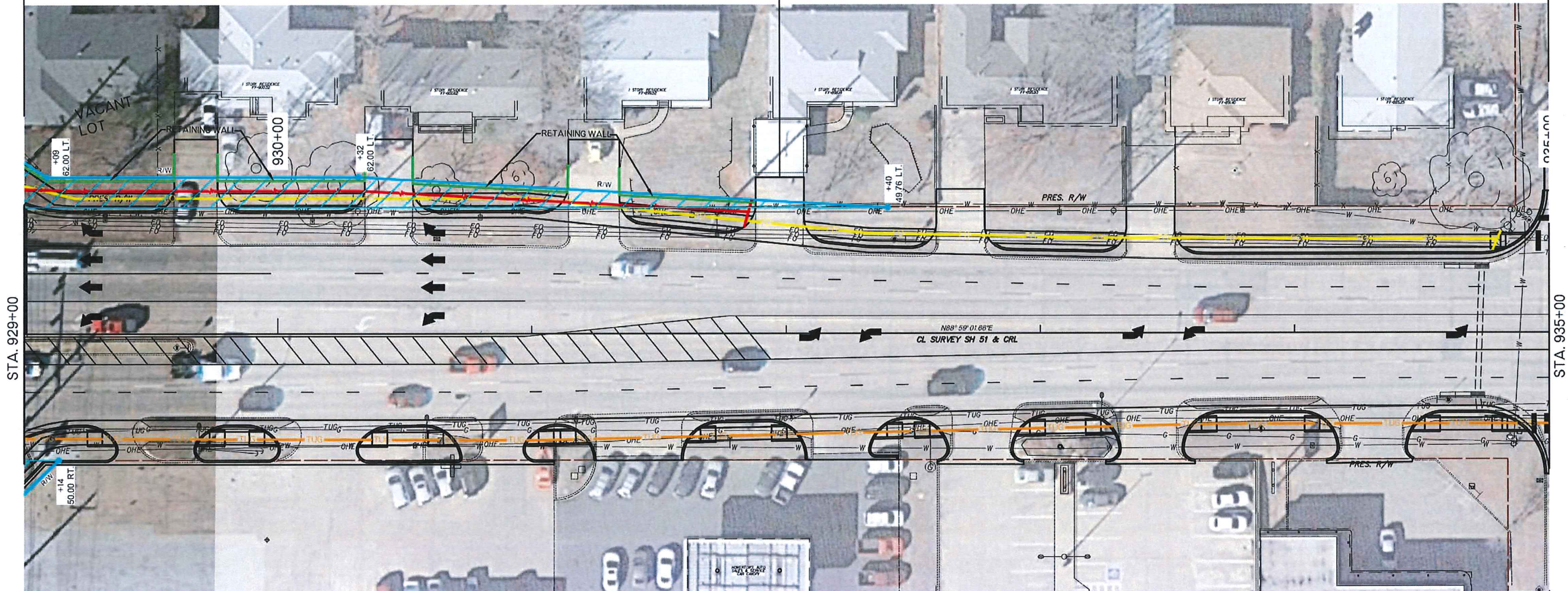
UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
FIBER OPTIC
OVERHEAD ELECTRIC

UTILITIES TO REMAIN IN PLACE:
WATER
OVERHEAD ELECTRIC

UTILITIES TO BE MOVED:
FIBER OPTIC

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
GAS
WATER

UTILITIES TO BE MOVED:
TELEPHONE UNDERGROUND

● OVERHEAD ELECTRIC IS ASSOCIATED WITH TRAFFIC LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0062

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DESCRIPTION	REVISION	DATE

NORTH SIDE OF SH 51

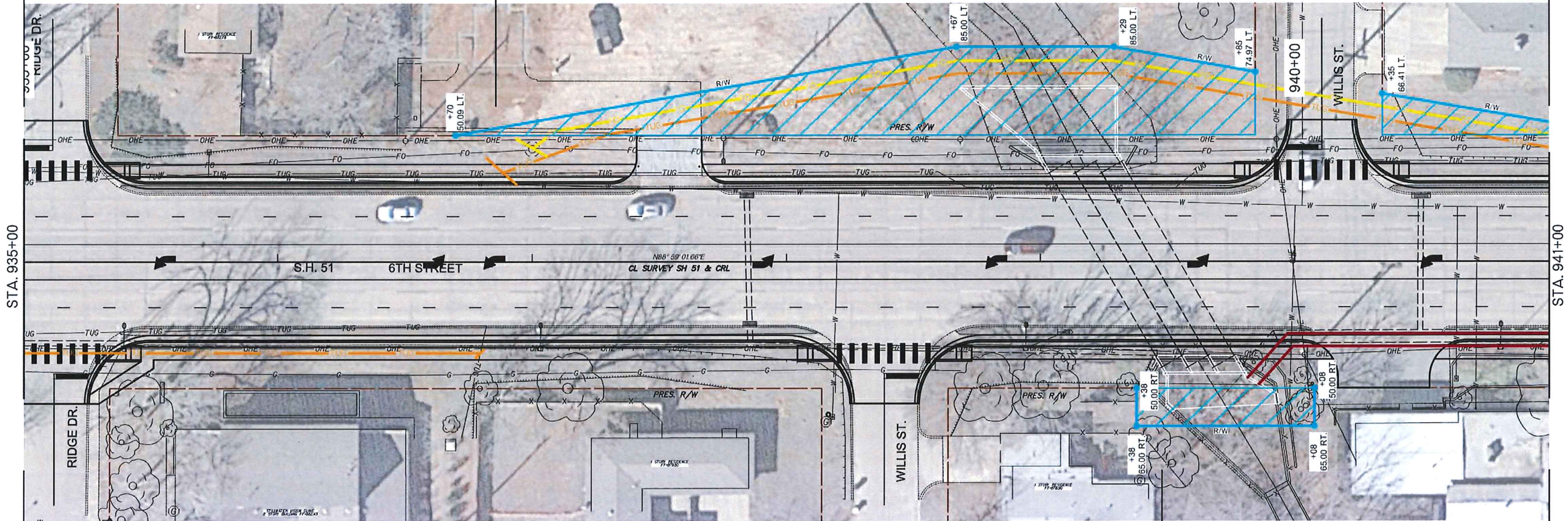
UTILITIES TO REMAIN IN PLACE:
 OVERHEAD ELECTRIC
 FIBER OPTIC
 WATER
 TELEPHONE UNDERGROUND

UTILITIES TO BE MOVED:
 N/A

UTILITIES TO REMAIN IN PLACE:
 OVERHEAD ELECTRIC
 WATER

UTILITIES TO BE MOVED:
 FIBER OPTIC
 TELEPHONE UNDERGROUND

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
 GAS
 STORM SEWER

UTILITIES TO BE MOVED:
 TELEPHONE UNDERGROUND

● OVERHEAD ELECTRIC IS ASSOCIATED WITH TRAFFIC LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

UTILITIES TO REMAIN IN PLACE:
 GAS

UTILITIES TO BE MOVED:
 STORM SEWER

● OVERHEAD ELECTRIC IS ASSOCIATED WITH TRAFFIC LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC	FO	PRESENT R/W	—
GAS	G	PROPOSED RETAINING WALL	—
TELEPHONE UNDERGROUND	TUG	PROPOSED R/W	—
OVERHEAD ELECTRIC	OHE	R/W TO PURCHASE	—
STORM SEWER	SS		

OPTION 2
 UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0063

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DESCRIPTION	REVISION	DATE

UTILITIES TO REMAIN IN PLACE:
OVERHEAD ELECTRIC
WATER

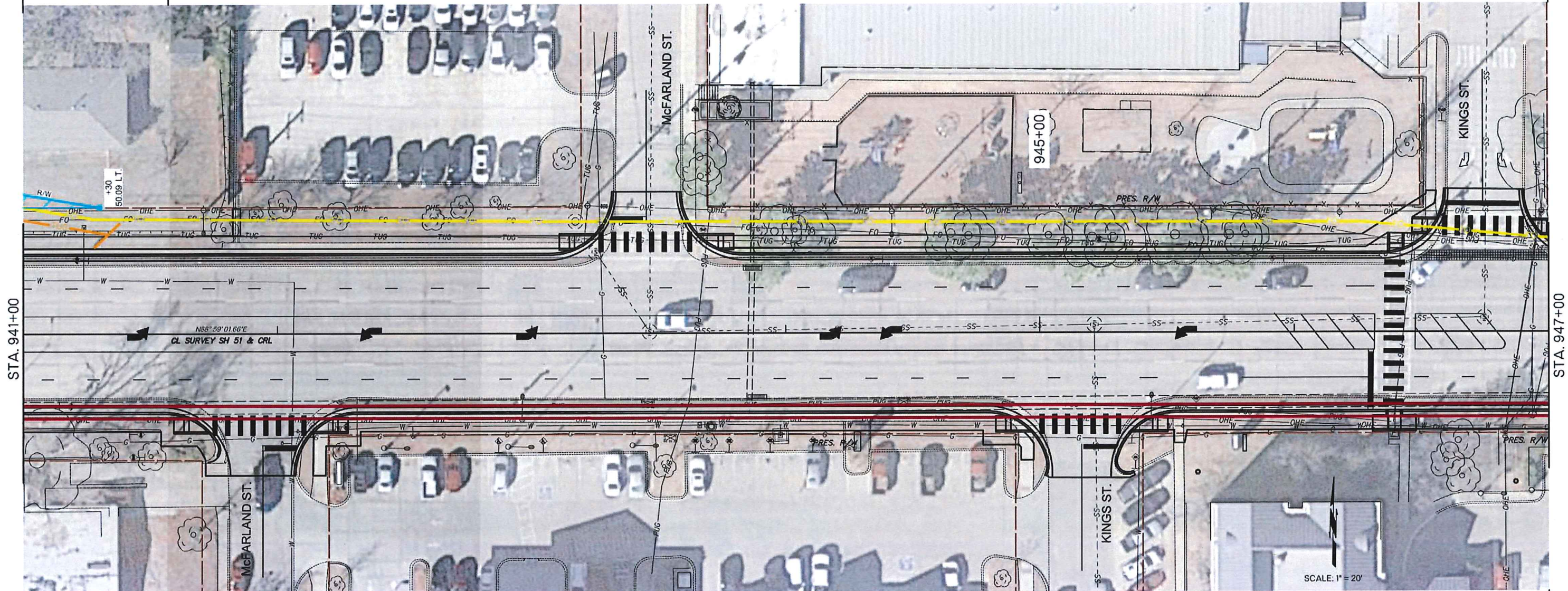
UTILITIES TO BE MOVED:
FIBER OPTIC
TELEPHONE UNDERGROUND

NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
OVERHEAD ELECTRIC
SANITARY SEWER
TELEPHONE UNDERGROUND

UTILITIES TO BE MOVED:
FIBER OPTIC

● PUG IS ASSOCIATED WITH TRAFFIC SIGNALS AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
GAS
WATER
SANITARY SEWER

UTILITIES TO BE MOVED:
STORM SEWER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		
FIBER OPTIC		PRESENT R/W
GAS		PROPOSED RETAINING WALL
TELEPHONE UNDERGROUND		PROPOSED R/W
OVERHEAD ELECTRIC		R/W TO PURCHASE
STORM SEWER		

OPTION 2

UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0064

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DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

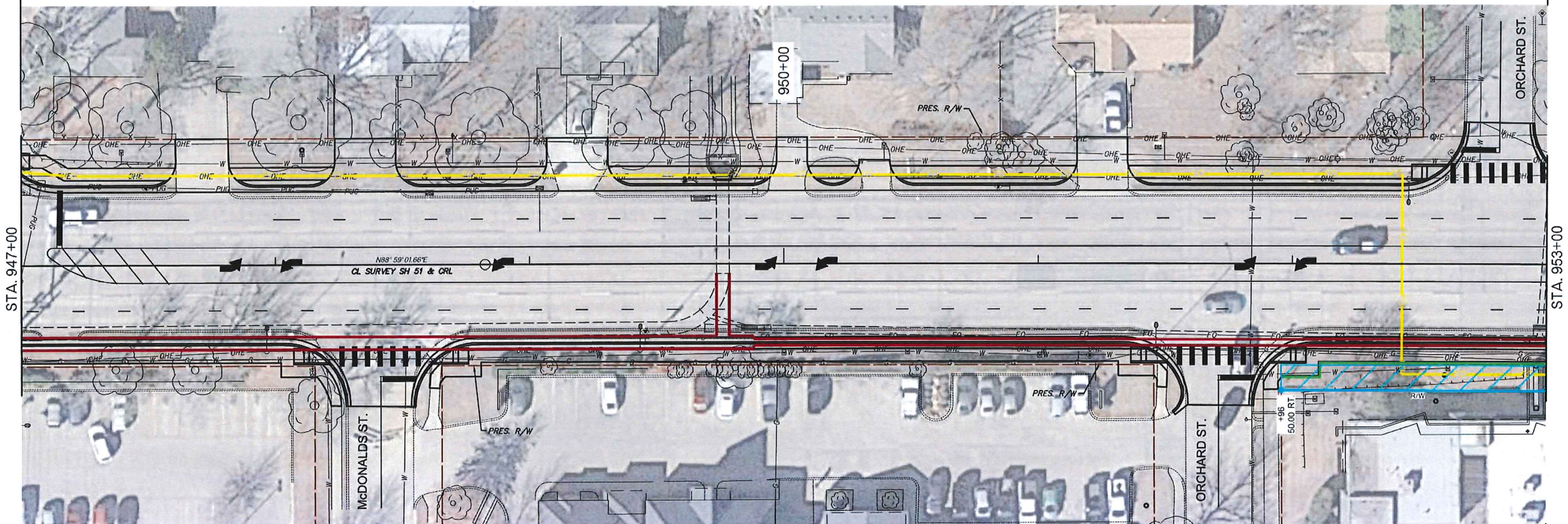
UTILITIES TO REMAIN IN PLACE:
OVERHEAD ELECTRIC (NEAR R/W LINE)
WATER

UTILITIES TO BE MOVED:
F/O FROM SOUTH SIDE TO NORTH SIDE

● PUG IS ASSOCIATED WITH TRAFFIC SIGNALS AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

● OVERHEAD ELECTRIC NEAR CURB IS FOR LIGHTING WHICH WILL BE MOVED TO OVERHEAD ELECTRIC POLES NEAR R/W

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
GAS
WATER

UTILITIES TO BE MOVED:
FIBER OPTIC (RELOCATED TO NORTH SIDE)
STORM SEWER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0065

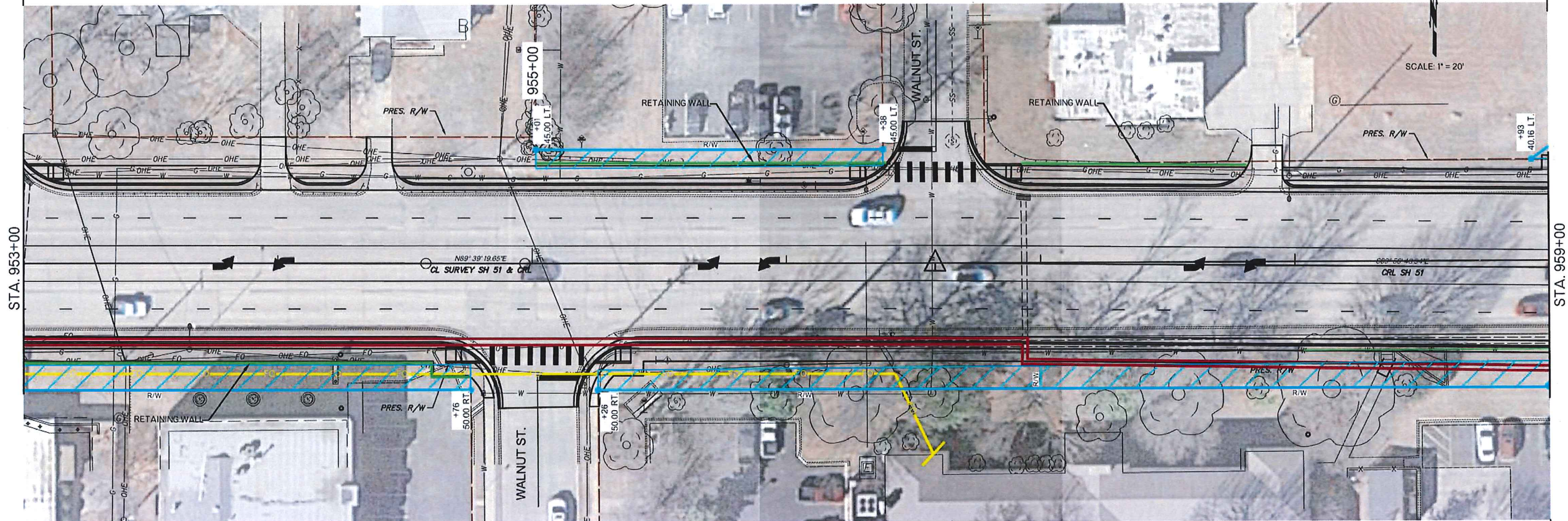
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NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
 OVERHEAD ELECTRIC (NEAR R/W LINE)
 FIBER OPTIC
 WATER
 GAS

UTILITIES TO BE MOVED:
 N/A

● OVERHEAD ELECTRIC NEAR CURB IS FOR LIGHTING WHICH WILL BE MOVED TO OVERHEAD ELECTRIC POLES NEAR R/W



STA. 953+00

STA. 959+00

SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
 FIBER OPTIC
 STORM SEWER

UTILITIES TO REMAIN IN PLACE:
 GAS
 WATER

● OVERHEAD ELECTRIC IS ASSOCIATED WITH TRAFFIC LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

UTILITIES TO BE MOVED:
 STORM SEWER

UTILITIES TO REMAIN IN PLACE:
 WATER

● OVERHEAD ELECTRIC IS ASSOCIATED WITH TRAFFIC LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
 UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0066

DESCRIPTION	REVISIONS	DATE

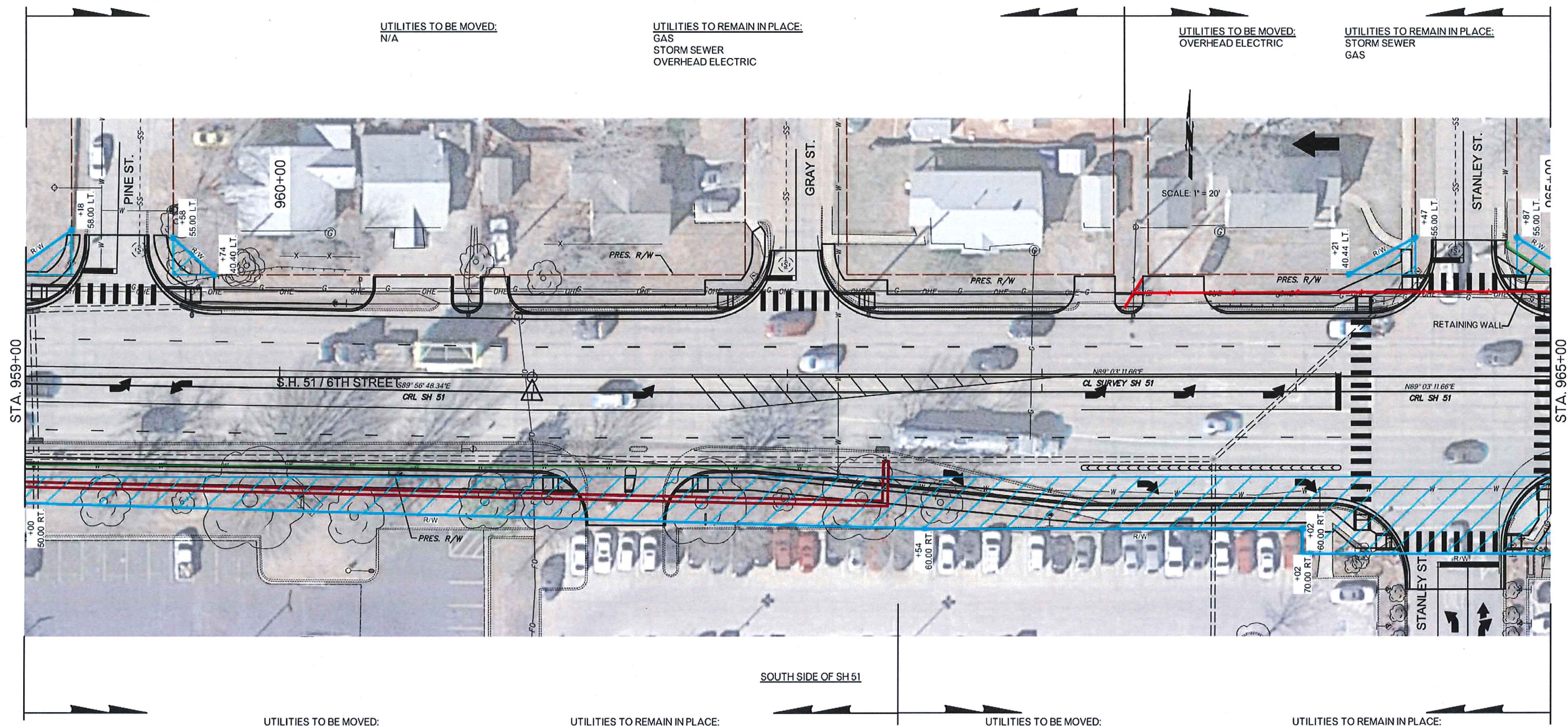
NORTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
GAS
STORM SEWER
OVERHEAD ELECTRIC

UTILITIES TO BE MOVED:
OVERHEAD ELECTRIC

UTILITIES TO REMAIN IN PLACE:
STORM SEWER
GAS



UTILITIES TO BE MOVED:
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER
STORM SEWER

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0067

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DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

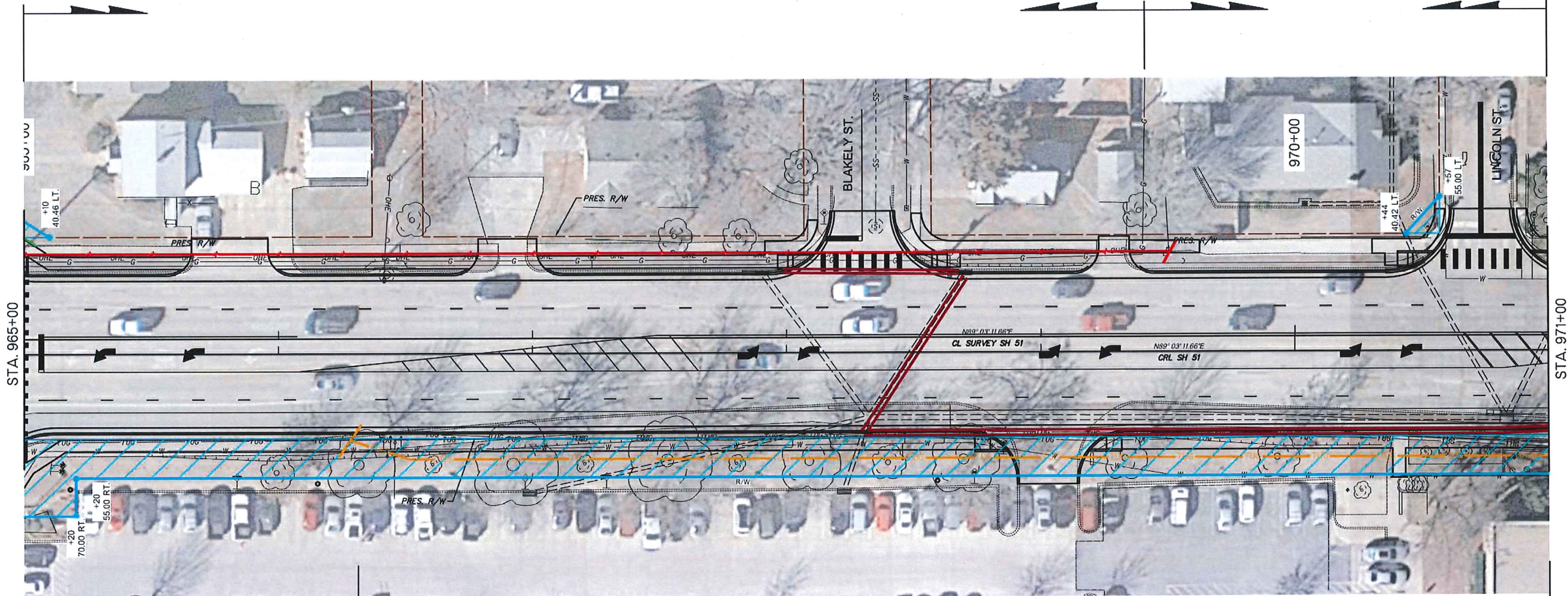
UTILITIES TO BE MOVED:
OVERHEAD ELECTRIC
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
GAS

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER
STORM SEWER

SCALE: 1" = 20'



STA. 965+00

STA. 971+00

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER
TELEPHONE UNDERGROUND
STORM SEWER

SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
TELEPHONE UNDERGROUND
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
WATER

LEGEND

PROPOSED RELOCATED UTILITIES

FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0066

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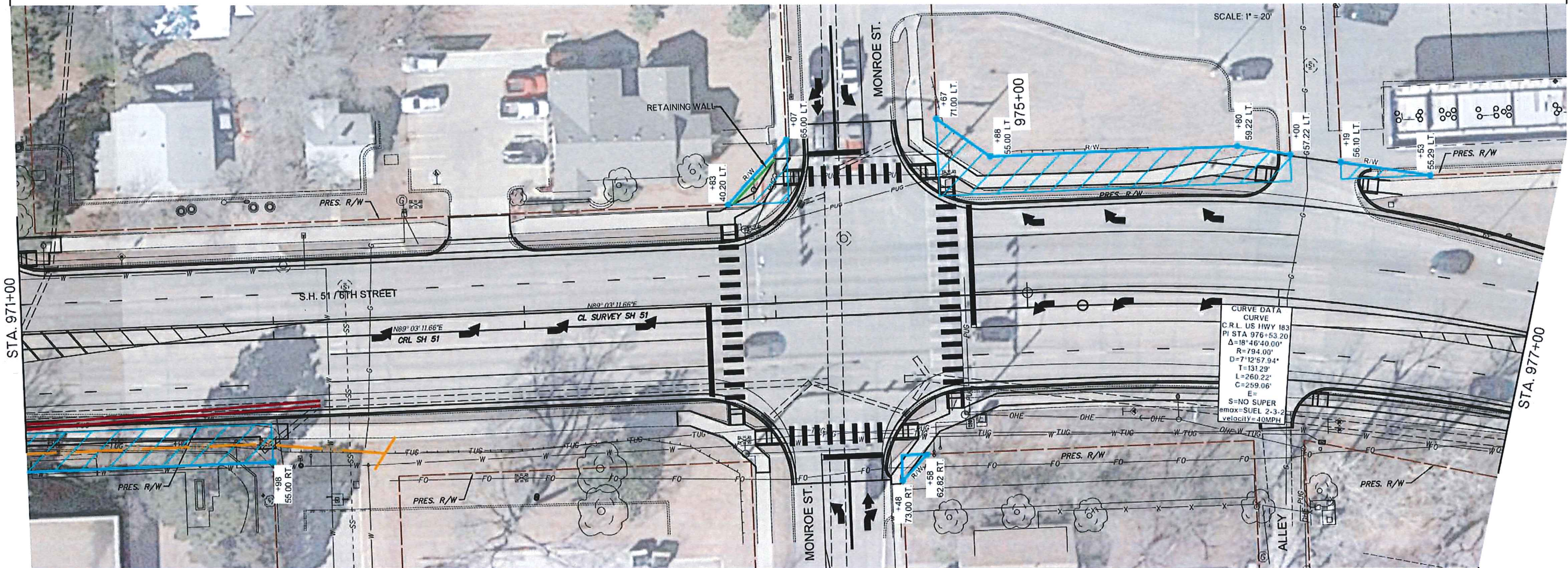
NORTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER

● PUG IS ASSOCIATED WITH TRAFFIC SIGNALS AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

SCALE: 1" = 20'



UTILITIES TO BE MOVED:
TELEPHONE UNDERGROUND
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
WATER

SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER
FIBER OPTIC
TELEPHONE UNDERGROUND
STORM SEWER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC	FO	PRESENT R/W	---
GAS	GO	PROPOSED RETAINING WALL	---
TELEPHONE UNDERGROUND	TUG	PROPOSED R/W	---
OVERHEAD ELECTRIC	OHE	R/W TO PURCHASE	---
STORM SEWER	SS		

OPTION 2
UTILITY CONCEPT PLAN



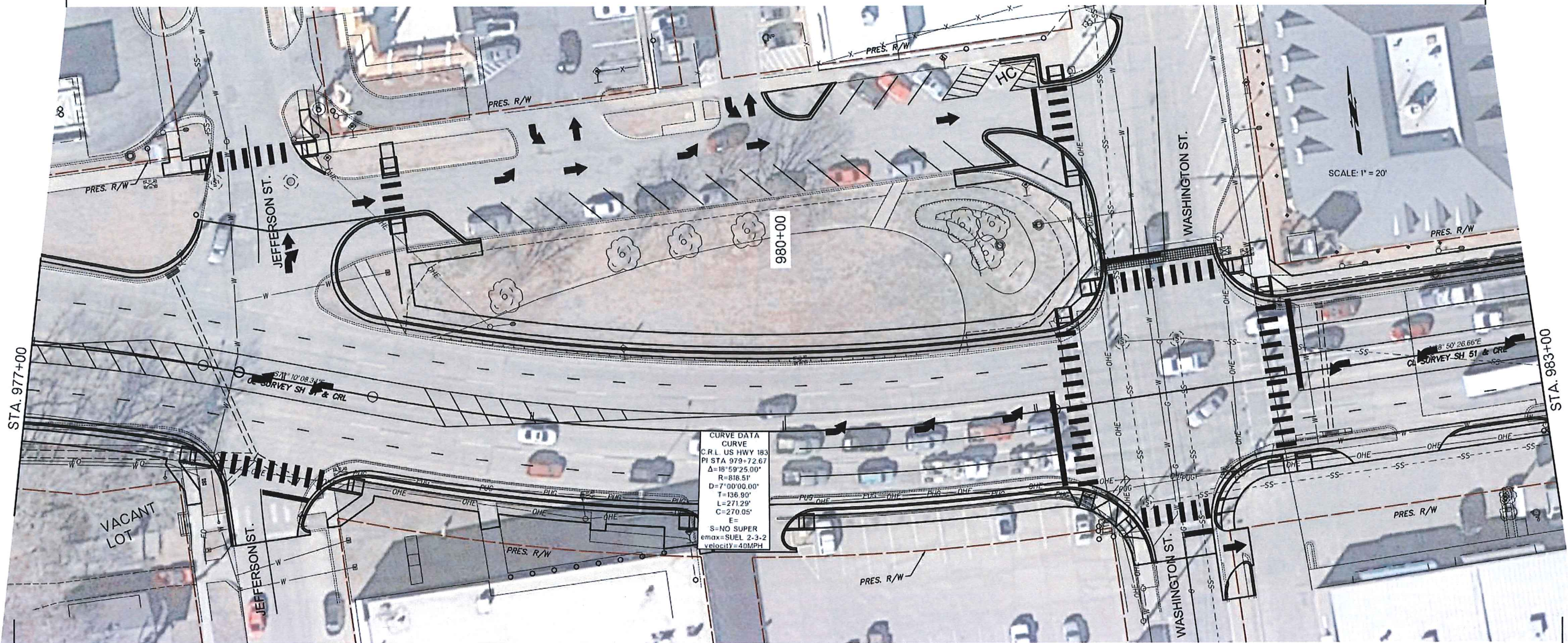
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DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0069

DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER
STORM SEWER



CURVE DATA
 CURVE
 C.R.L. US HWY 183
 P.I. STA 979+72.67
 $\Delta = 18^{\circ}59'25.00''$
 R=818.51'
 D=7^{\circ}00'00.00"
 T=136.90'
 L=271.29'
 C=270.95'
 E=
 S=NO SUPER
 e_{max}=SUEL 2-3-2
 velocity=40MPH

SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
SANITARY SEWER
WATER
FIBER OPTIC

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		
FIBER OPTIC		
GAS		
TELEPHONE UNDERGROUND		
OVERHEAD ELECTRIC		
STORM SEWER		

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0070

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DESCRIPTION	REVISIONS	DATE

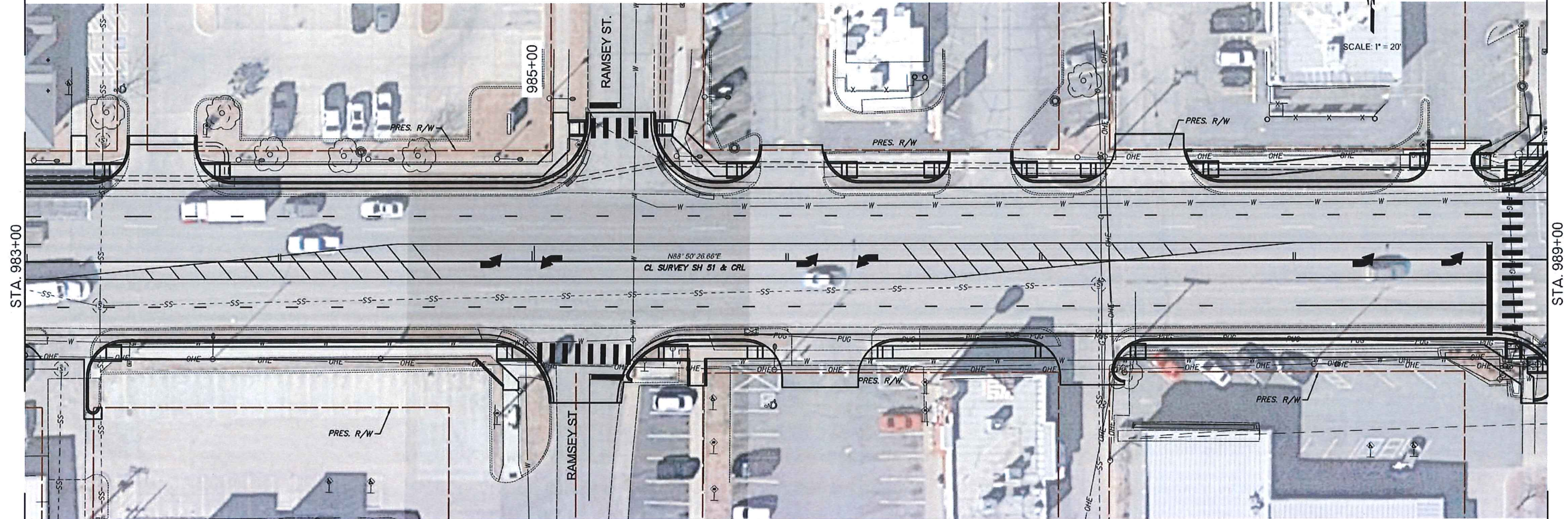
NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
WATER
STORM SEWER

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
SANITARY SEWER
WATER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0071

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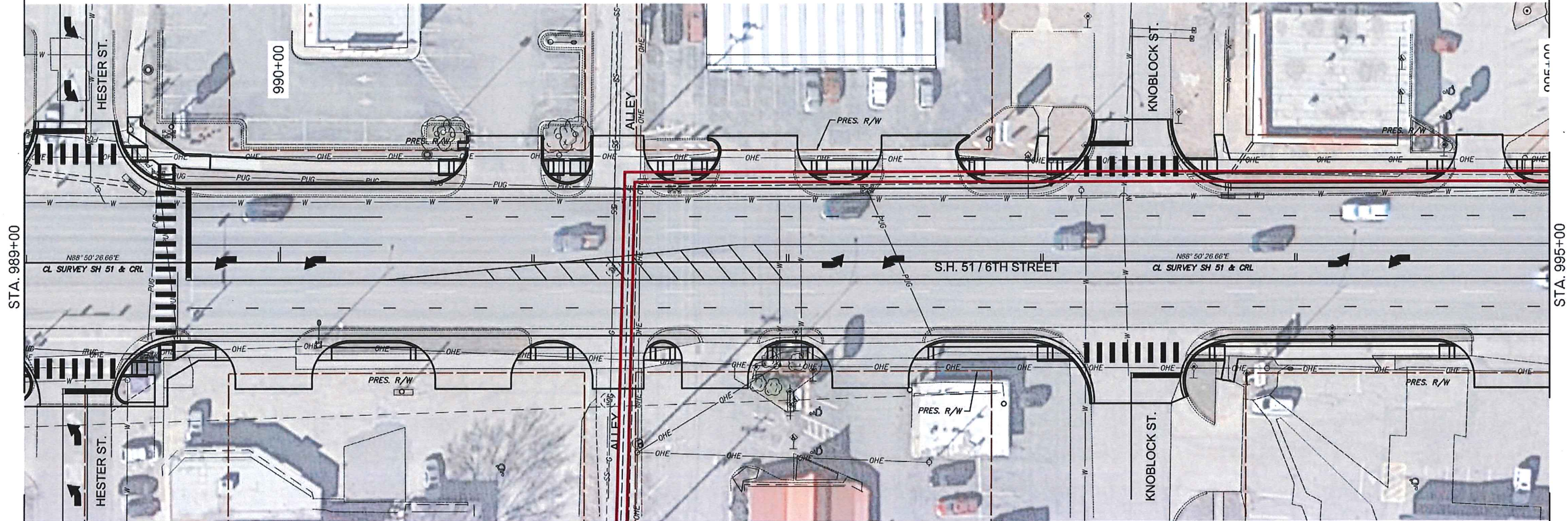
NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
STORM SEWER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES			
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0072

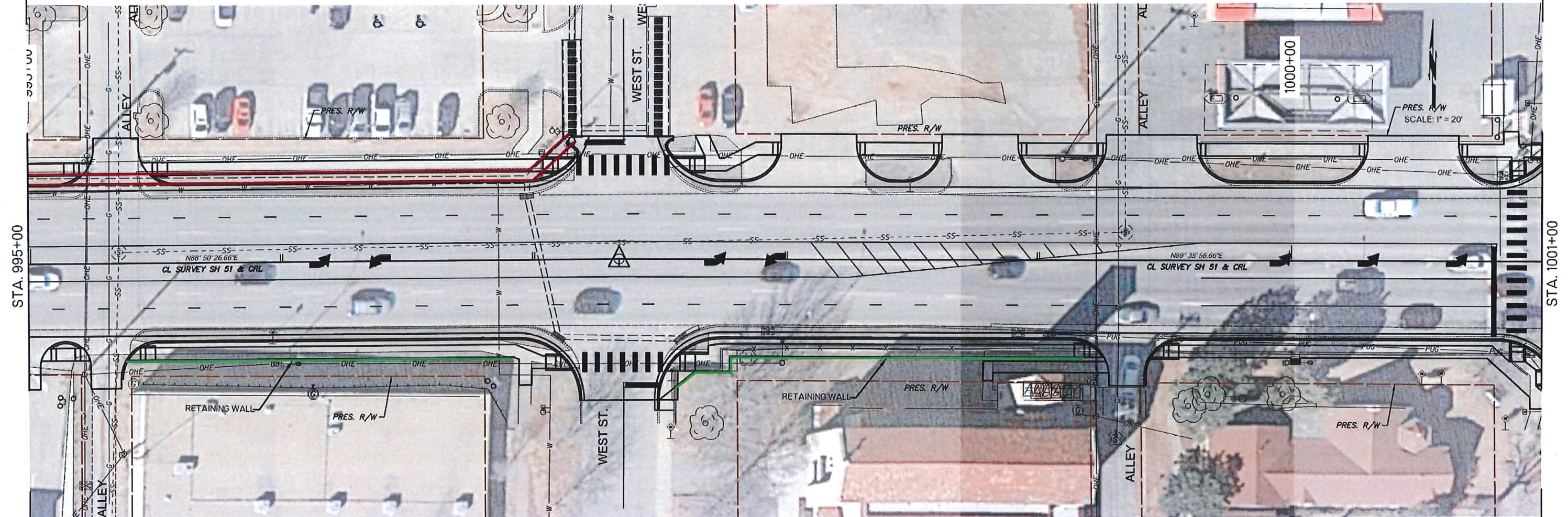
DESCRIPTION	REVISION	DATE

NORTH SIDE OF SH 51

UTILITIES TO BE MOVED:
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
SANITARY SEWER
WATER

● PUG & OVERHEAD ELECTRIC
ARE ASSOCIATED WITH
TRAFFIC SIGNALS AND LIGHTING
AND WILL BE RELOCATED WITH
NEW TRAFFIC & LIGHTING PLAN



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
N/A

● PUG & OVERHEAD ELECTRIC
ARE ASSOCIATED WITH
TRAFFIC SIGNALS AND LIGHTING
AND WILL BE RELOCATED WITH
NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0073

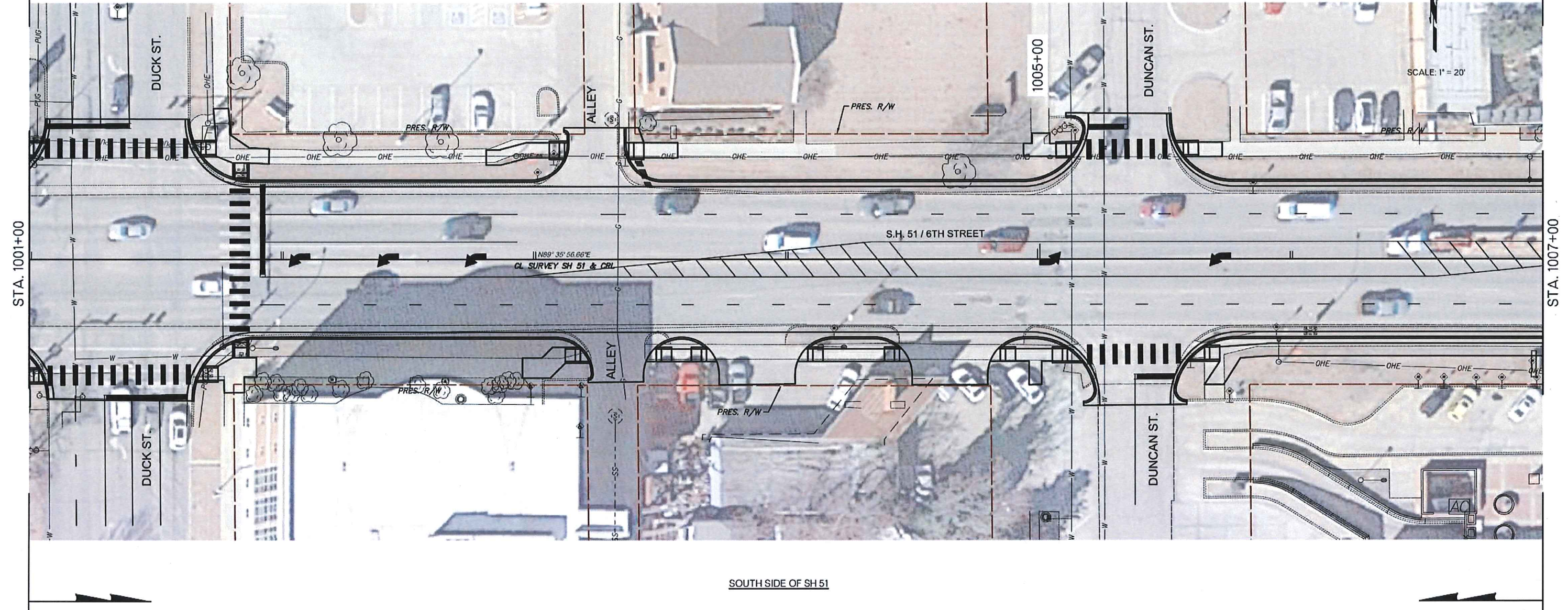
DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN



SCALE: 1" = 20'

SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
WATER

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC		PROPOSED RETAINING WALL	
GAS		PROPOSED R/W	
TELEPHONE UNDERGROUND		R/W TO PURCHASE	
OVERHEAD ELECTRIC			
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0074

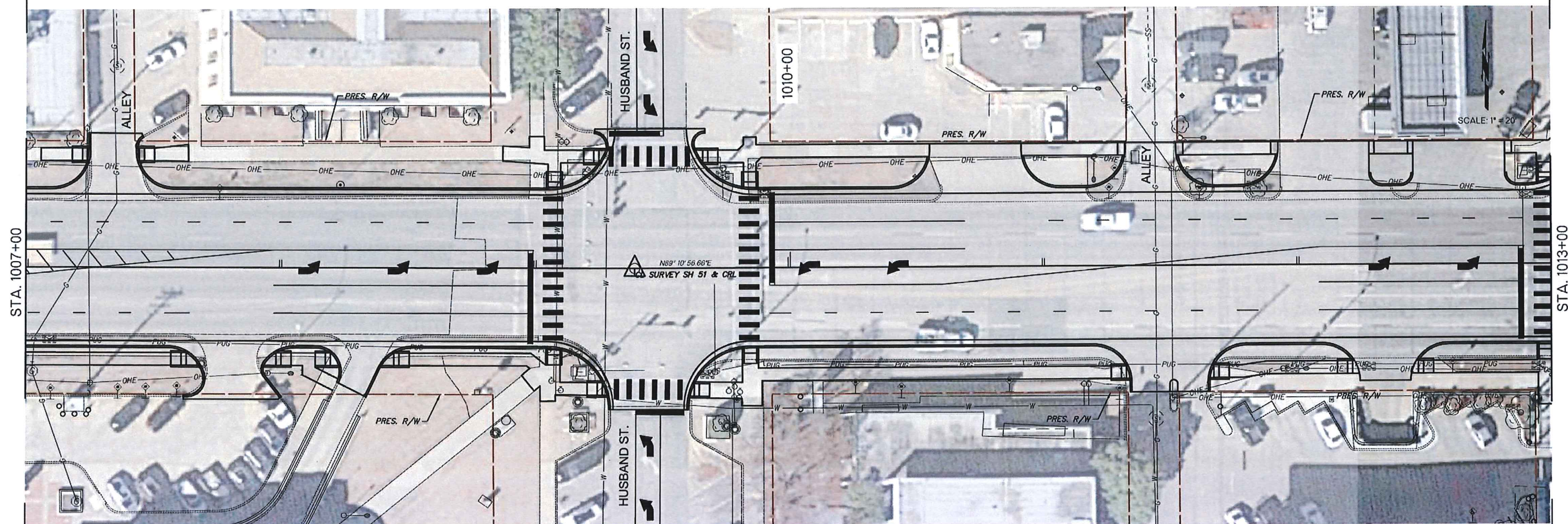
DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
N/A

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN



SOUTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

OPTION 2
UTILITY CONCEPT PLAN

LEGEND

PROPOSED RELOCATED UTILITIES			
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0075

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DESCRIPTION	REVISIONS	DATE

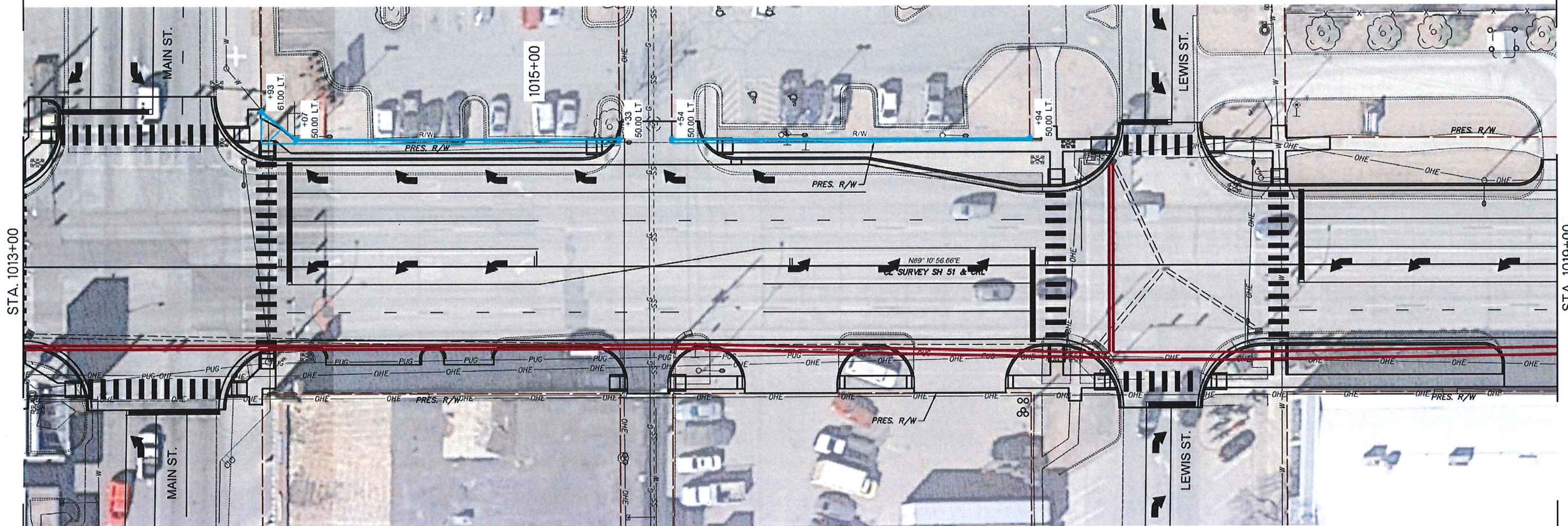
NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
N/A

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
ORM SEWER

UTILITIES TO REMAIN IN PLACE:
N/A

● PUG & OVERHEAD ELECTRIC ARE ASSOCIATED WITH TRAFFIC SIGNALS AND LIGHTING AND WILL BE RELOCATED WITH NEW TRAFFIC & LIGHTING PLAN

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0076

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DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

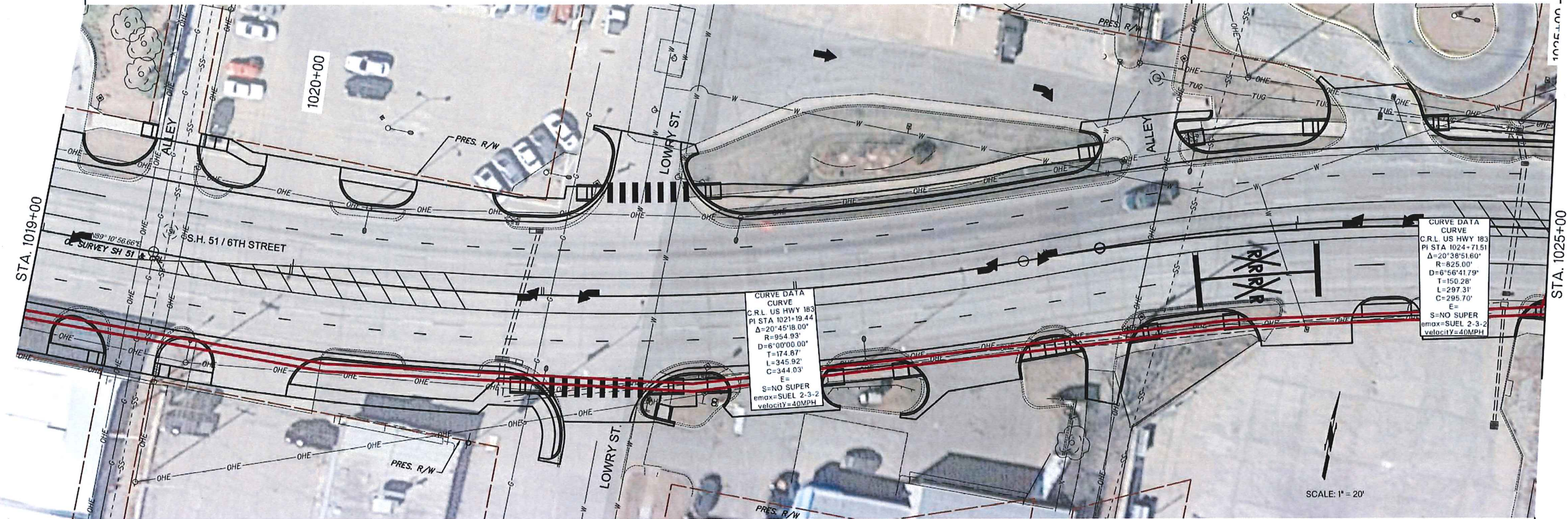
UTILITIES TO REMAIN IN PLACE:
WATER

UTILITIES TO BE MOVED:
N/A

● PUG & OVERHEAD ELECTRIC
ARE ASSOCIATED WITH
TRAFFIC SIGNALS AND LIGHTING
AND WILL BE RELOCATED WITH
NEW TRAFFIC & LIGHTING PLAN

UTILITIES TO REMAIN IN PLACE
OVERHEAD ELECTRIC
TELEPHONE UNDERGROUND
WATER

UTILITIES TO BE MOVED:
STORM SEWER



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
STORM SEWER

UTILITIES TO REMAIN IN PLACE:
N/A

● PUG & OVERHEAD ELECTRIC
ARE ASSOCIATED WITH
TRAFFIC SIGNALS AND LIGHTING
AND WILL BE RELOCATED WITH
NEW TRAFFIC & LIGHTING PLAN

OPTION 2
UTILITY CONCEPT PLAN

LEGEND

PROPOSED RELOCATED UTILITIES			
FIBER OPTIC		PRESENT R/W	
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0077

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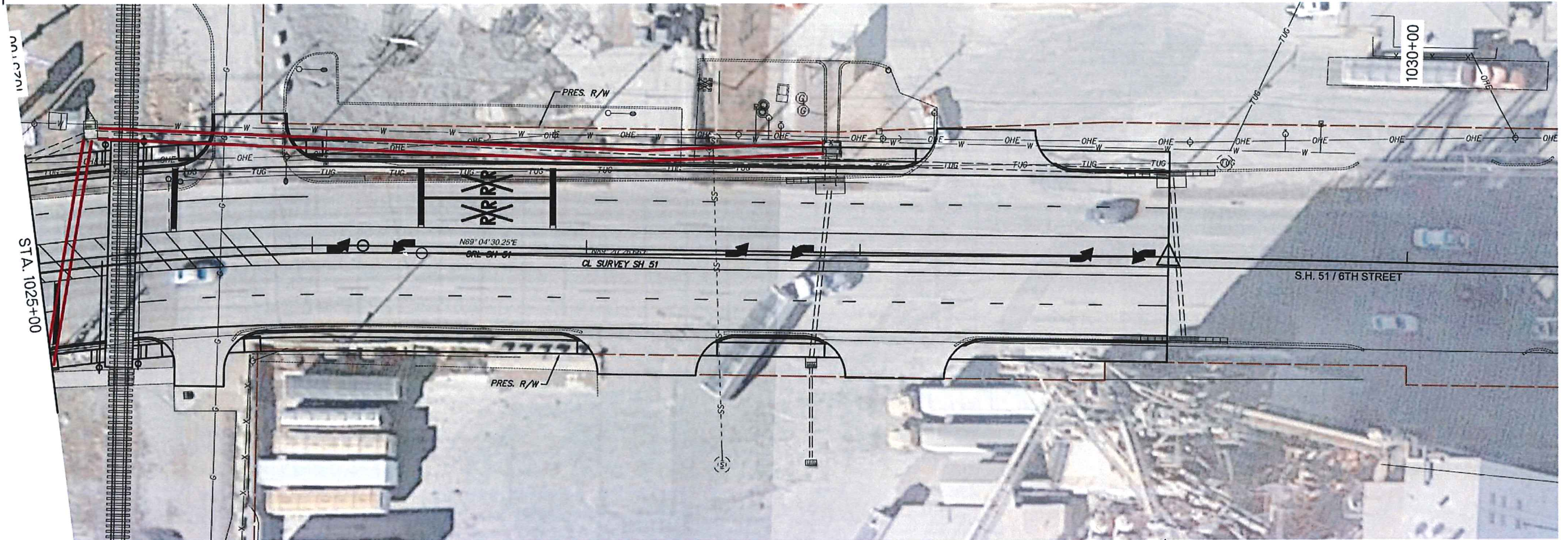
DESCRIPTION	REVISIONS	DATE

NORTH SIDE OF SH 51

UTILITIES TO REMAIN IN PLACE:
WATER
TELEPHONE UNDERGROUND
OVERHEAD ELECTRIC

UTILITIES TO BE MOVED:
STORM SEWER

SCALE: 1" = 20'



SOUTH SIDE OF SH 51

UTILITIES TO BE MOVED:
N/A

UTILITIES TO REMAIN IN PLACE:
N/A

LEGEND

PROPOSED RELOCATED UTILITIES		PRESENT R/W	
FIBER OPTIC			
GAS		PROPOSED RETAINING WALL	
TELEPHONE UNDERGROUND		PROPOSED R/W	
OVERHEAD ELECTRIC		R/W TO PURCHASE	
STORM SEWER			

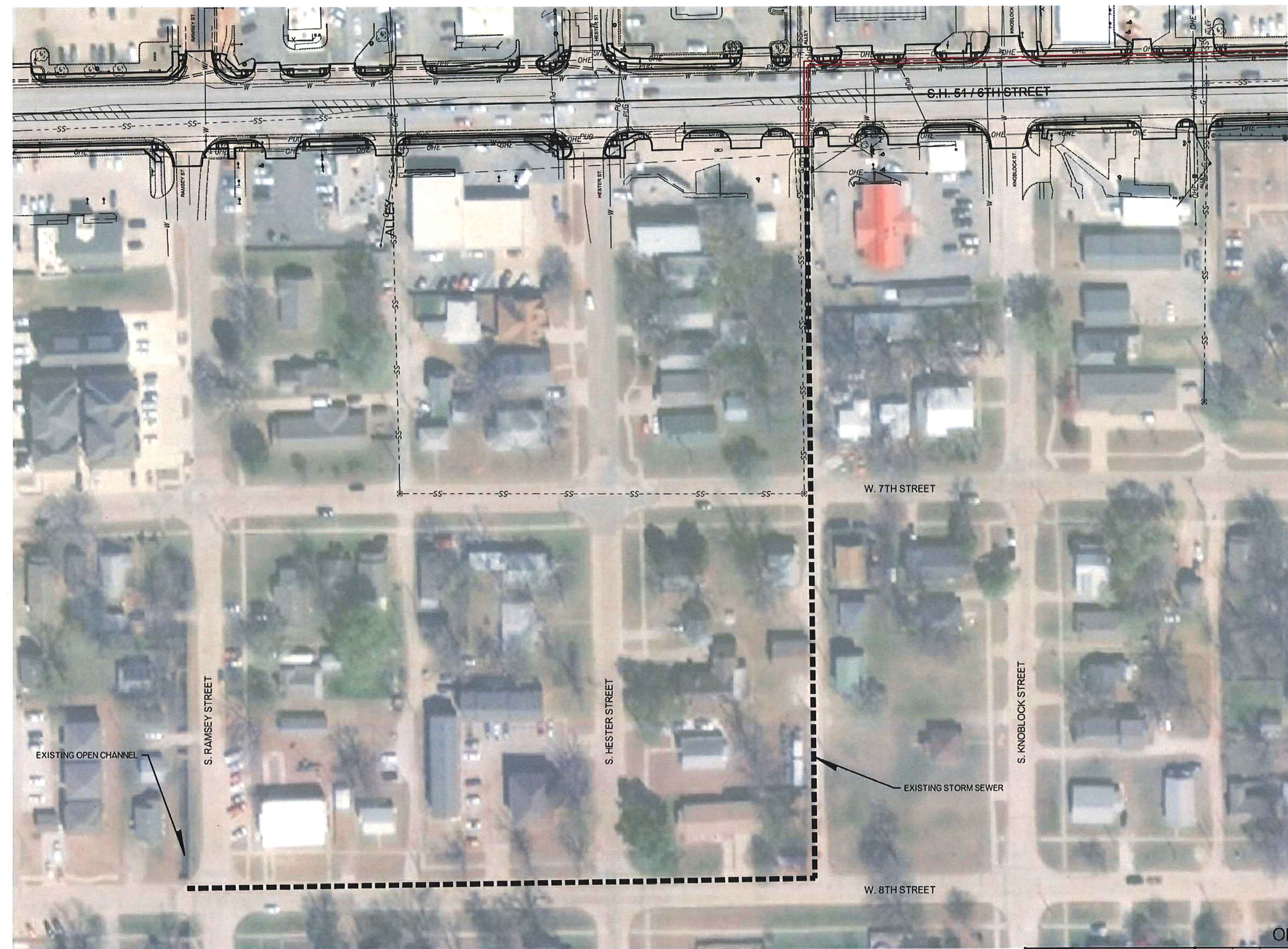
OPTION 2
UTILITY CONCEPT PLAN



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	007B

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DESCRIPTION	REVISIONS	DATE



PROPOSED IMPROVEMENTS INCLUDE CONNECTING SH 51 DRAINAGE SYSTEM TO THE EXISTING STORM SEWER LOCATED AT THE ALLEY BETWEEN HESTER ST. AND KNOBLOCK ST. THIS EXISTING STORM SEWER WILL NEED TO BE SURVEYED AND EVALUATED FOR CAPACITY TO INSURE ADEQUATE DRAINAGE OF SH 51. BASED ON THIS EVALUATION THE EXISTING 36"X1354' RCP TRUNK LINE MAY NEED TO BE INCREASED IN SIZE FROM SH 51 SOUTH TO 8TH ST. THEN WEST TO THE OUTFALL AT RAMSEY ST.

OFFSITE STORM SEWER EXHIBIT

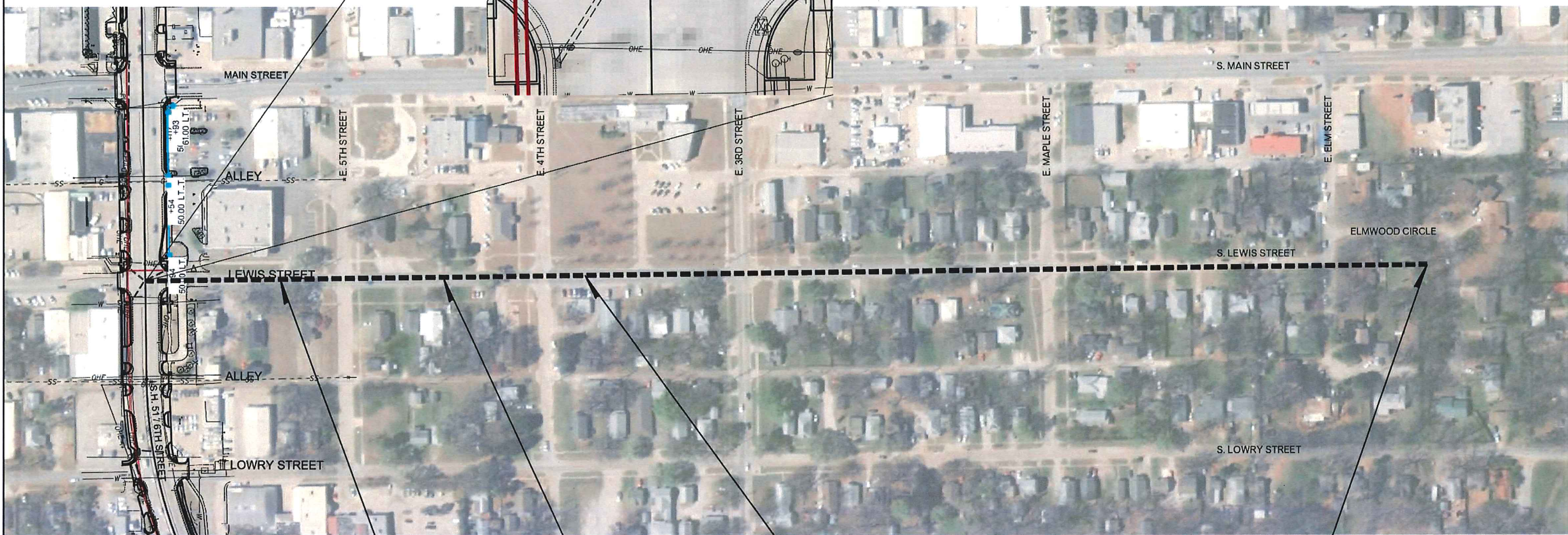
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DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO	31012(04)
		SHEET NO	0079

DESCRIPTION	REVISIONS	DATE

SCALE: 1" = 100'



400' OF EXISTING 15" STORM SEWER
 400' OF EXISTING 18" STORM SEWER
 1800' OF EXISTING 20" STORM SEWER
 EXISTING OPEN CHANNEL

PROPOSED IMPROVEMENTS INCLUDE REMOVING SH 51 DRAINAGE FROM THIS EXISTING TRUNK LINE AND REROUTING TO THE EAST UNDER THE RAILROAD TRACK. THEN CONNECTING TO THE EXISTING STORM SEWER FROM THE BOOMER CREEK PROJECT.

OFFSITE STORM SEWER EXHIBIT



DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION	
DRAWN		SH 51 FROM WESTERN RD. TO PERKINS RD.	
CHECKED		COUNTY	PAYNE
APPROVED		HIGHWAY	SH 51
SQUAD	SRB	STATE JOB NO.	31012(04)
		SHEET NO.	0080

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