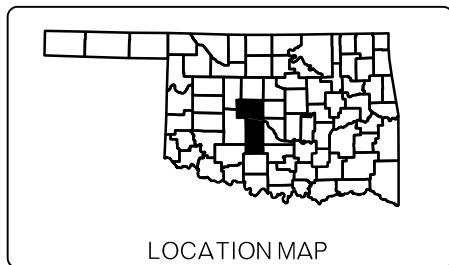


PLAN OF PROPOSED  
**CORRIDOR STUDY US-81**  
CHICKASHA TO UNION CITY  
**GRADY COUNTY**  
CONTROL SECTION NO. 81-26-12

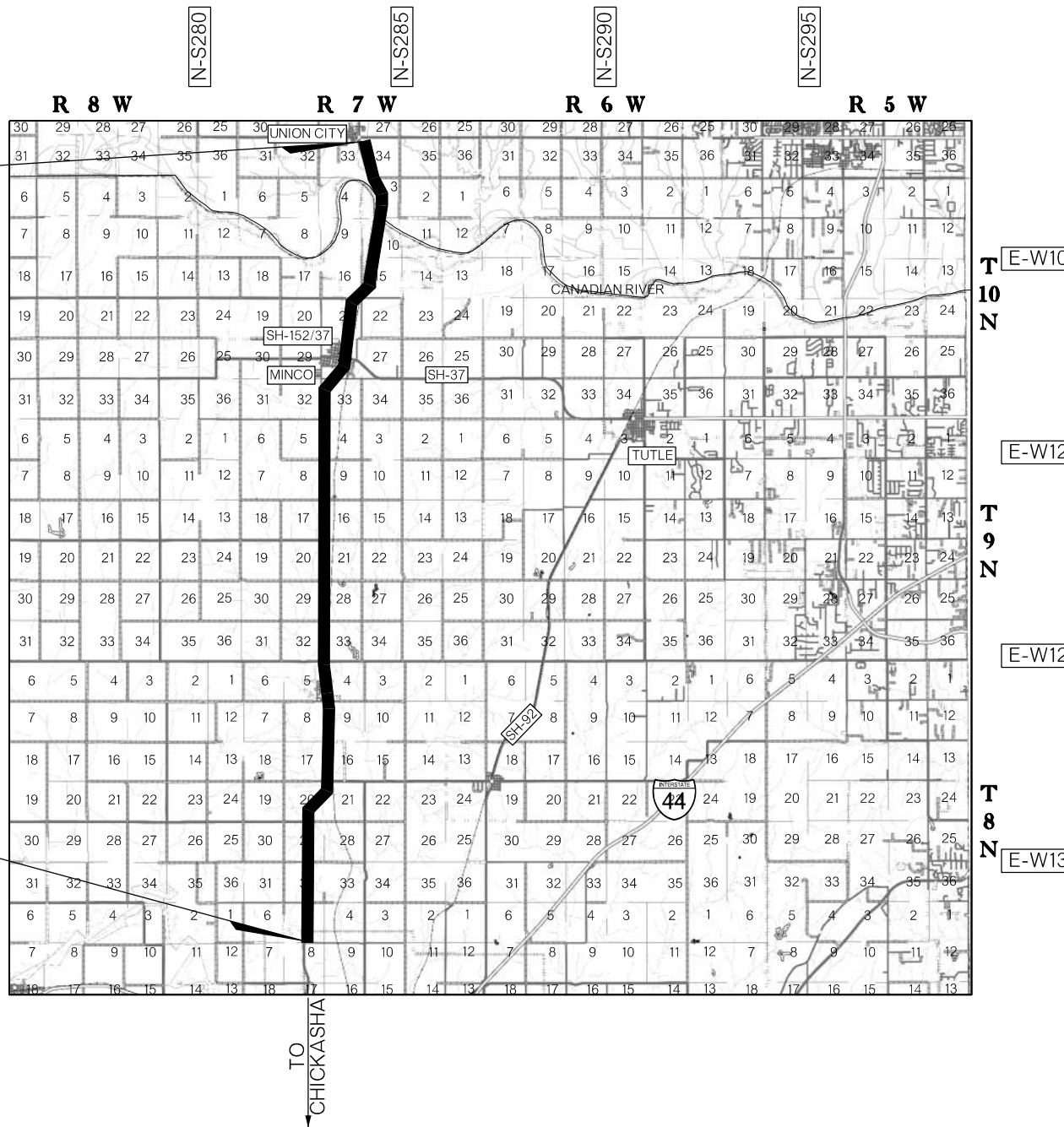
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FOR INFORMATION ONLY**  
9/17/2020



DESIGN DATA	US-81
AADT 2019	= 5,880
AADT 2030	= 8,146
DHV (2-WAY)	= 815
K (DHV/AADT)	= 10%
D	= 55%
T (% DHV)	= 39%
T (% AADT)	= 33%
T <sup>3</sup> (% AADT)	= 21%
V	= 65MPH
20YR RIGID ESALS	= XXXX

US-81 @ STA. 1155+00.00  
END STUDY

US-81 @ STA. 85+25  
BEGIN STUDY



**INDEX OF SHEETS**

0001	TITLE SHEET
0002	TYPICAL SECTIONS
R001	PROJECT OVERVIEW KEY MAP
R002-R004	PASSING LANE CR 1306 TO CR 1280
R005-R006	PASSING LANE CR 1240 TO CR 1220
R007-R008	PASSING LANE CR 1220 TO CR 1190
R009-R010	PASSING LANE SH-152 TO CANADIAN RIVER
R011-R012	MINCO ROAD DIET
R013	INTERSECTION US-81/CR 1280
R014	INTERSECTION US-81/SH-152
R015	INTERSECTION US-81/SH-152 ROUNDABOUT

SCALES  
PLAN 1" = 300'  
LAYOUT MAP 1" = 10,560'

- CONVENTIONAL SYMBOLS
- PROPOSED ROAD
  - +—+— RAILROADS
  - RANGE & TOWNSHIP
  - SECTION LINES
  - QUARTER SECTION LINES
  - x- FENCES
  - - - GROUND LINE
  - EXISTING ROADS
  - BASE LINE
  - GRADE LINES
  - TUG- TELEPHONE & TELEGRAPH
  - O-O- POWER LINES
  - BUILDINGS
  - ★ OILWELL
  - DRAINAGE STRUCTURES - IN PLACE
  - DRAINAGE STRUCTURES - NEW
  - PRES. R/W RIGHT-OF-WAY LINES - EXISTING
  - R/W RIGHT-OF-WAY LINES - NEW
  - /// CONTROLLED ACCESS
  - R/W RIGHT-OF-WAY FENCE

L:\2017\17037344 - 0001 EC-19564 T05 US-81Corridor Study\Drawings\000-US-81-Cover.dgn 9/17/2020 2:15:04 PM

NOTE: PROJECT LENGTH BASED ON C.R.L. STATIONING

STUDY LENGTH (US-81) ----- 106,975.00 FT. 20.26 MI.

EQUATIONS : NONE  
EXCEPTIONS : NONE

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

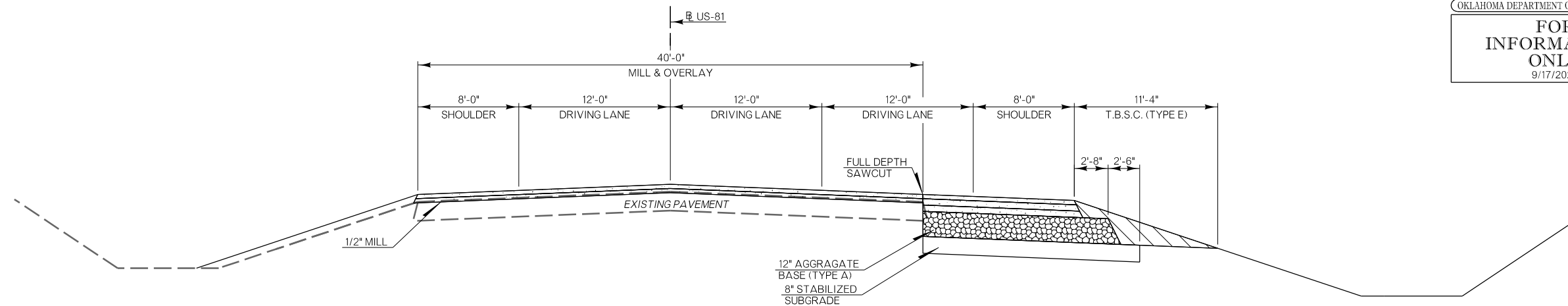
PREPARED BY:

6450 SOUTH LEWIS AVE.,  
SUITE 300  
TULSA, OKLAHOMA 74136  
(918) 250-5922 (VOICE)  
(918) 858-0107 (FAX)

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

CERTIFICATE OF AUTHORIZATION NO. 4193 P.E., L.S. RENEWAL DATE: 6-30-2022

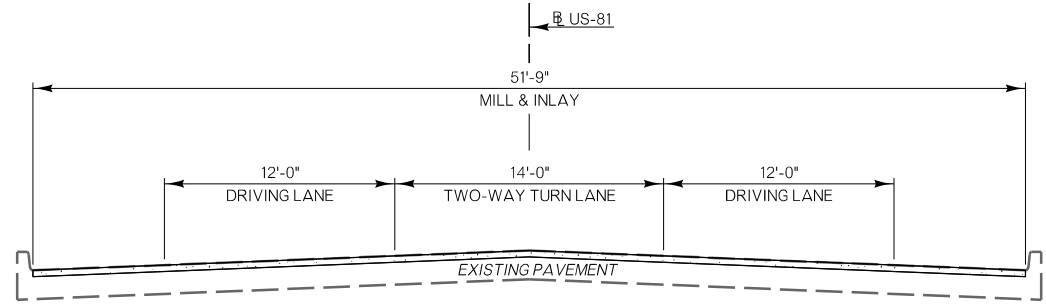
DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED	DATE APPROVED
BY	BY
CHIEF ENGINEER	DIVISION ADMINISTRATOR
SWO N/A	PROJECT NO.
COUNTY GRADY	HIGHWAY US-81 SHEET NO. 0001



PAVEMENT DESIGN HAS NOT BEEN COMPLETED.  
SECTION USED FOR COST ESTIMATING PURPOSES.

PAVEMENT REQUIREMENT		
PAVT. STRUCTURE	MILL & OVERLAY	PAVEMENT WIDENING
COLD MILLING	1/2" MILL	
SURFACE COURSE	2" SUPERPAVE S4 (PG 76-28 OK)	2" SUPERPAVE S4 (PG 76-28 OK)
BASE COURSE	2" SUPERPAVE S4 (PG 76-28 OK)	3" SUPERPAVE S4 (PG 76-28 OK) 3" SUPERPAVE S3 (PG 64-22 OK)

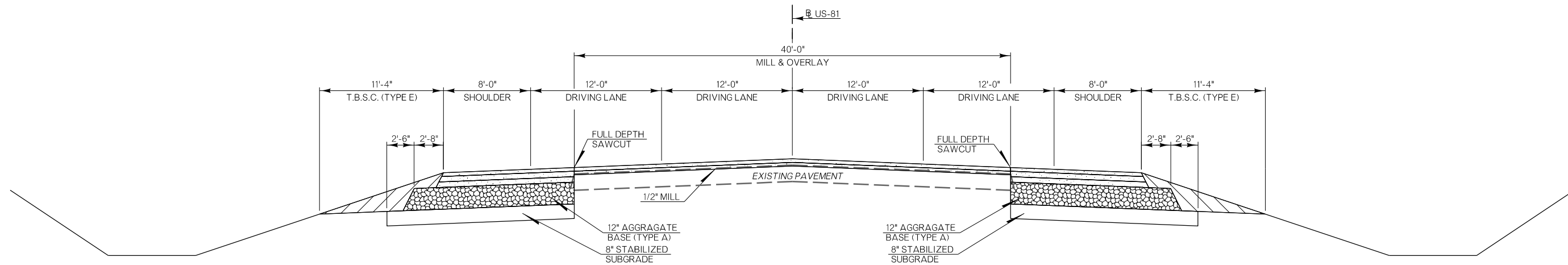
TYPICAL SECTION: PAVEMENT WIDENING (3-LANE)  
NOT TO SCALE



PAVEMENT DESIGN HAS NOT BEEN COMPLETED.  
SECTION USED FOR COST ESTIMATING PURPOSES.

PAVEMENT REQUIREMENT	
PAVT. STRUCTURE	MILL & INLAY
COLD MILLING	2" MILL
SURFACE COURSE	2" SUPERPAVE S4 (PG 76-28 OK)

TYPICAL SECTION: MILL AND INLAY  
NOT TO SCALE



PAVEMENT DESIGN HAS NOT BEEN COMPLETED.  
SECTION USED FOR COST ESTIMATING PURPOSES.

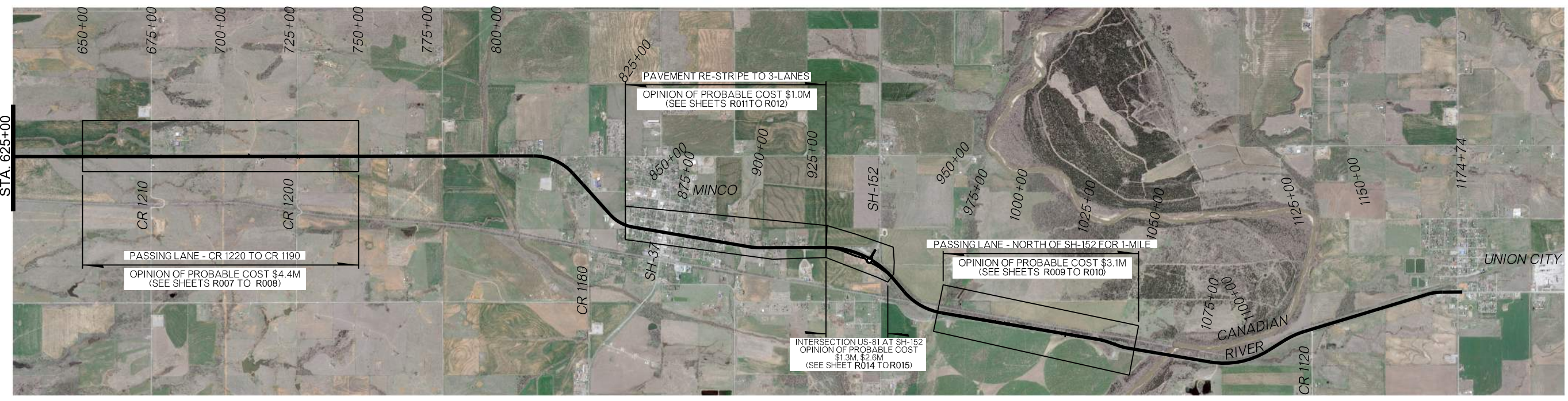
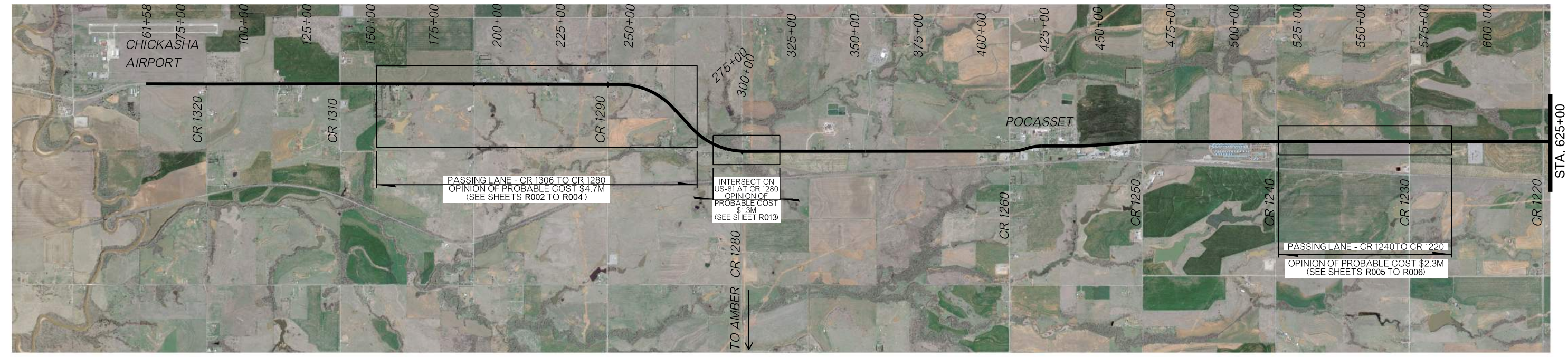
PAVEMENT REQUIREMENT		
PAVT. STRUCTURE	MILL & OVERLAY	PAVEMENT WIDENING
COLD MILLING	1/2" MILL	
SURFACE COURSE	2" SUPERPAVE S4 (PG 76-28 OK)	2" SUPERPAVE S4 (PG 76-28 OK)
BASE COURSE	2" SUPERPAVE S4 (PG 76-28 OK)	3" SUPERPAVE S4 (PG 76-28 OK) 3" SUPERPAVE S3 (PG 64-22 OK)

TYPICAL SECTION: PAVEMENT WIDENING (4-LANE)  
NOT TO SCALE

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY	GRADY	HIGHWAY	US-81
		STATE JOB NO.	
		SHEET NO.	0002

TYPICAL SECTIONS

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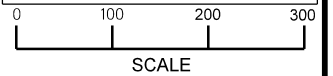
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DRAWN	XXX	XXX	
CHECKED	XXX	XXX	
APPROVED	XXX	XXX	
SQUAD	GARVER		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO.			SHEET NO. R001

**PROJECT OVERVIEW KEY MAP**  
 (SHEET 1 OF 1)

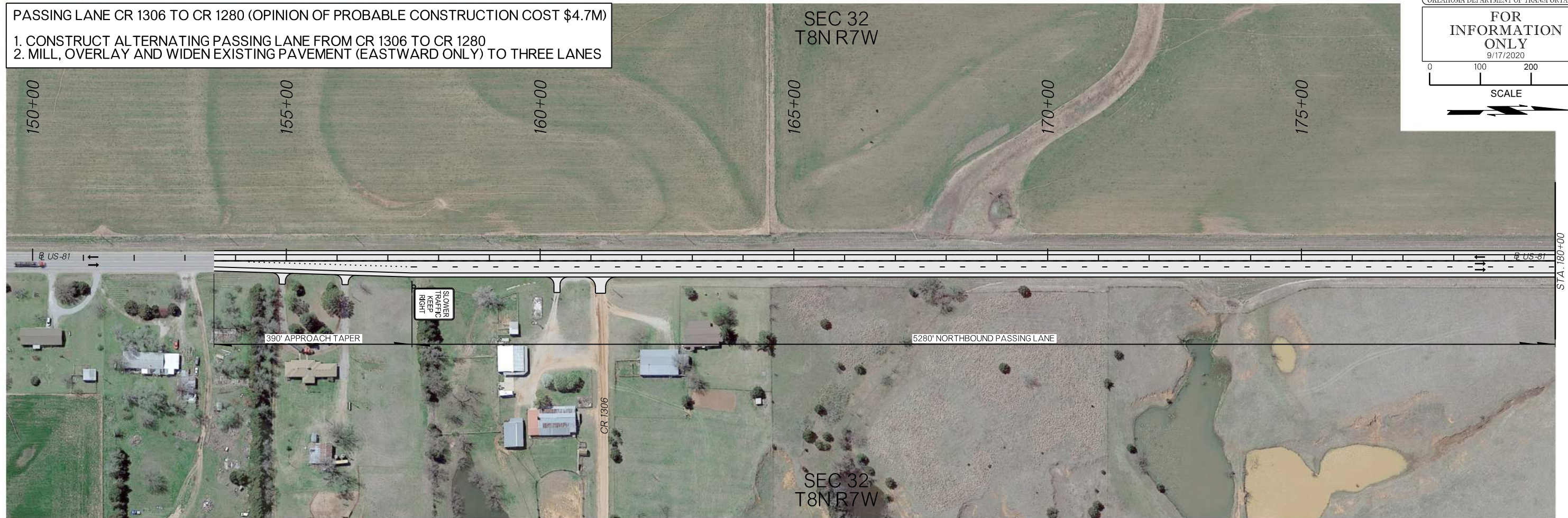
PASSING LANE CR 1306 TO CR 1280 (OPINION OF PROBABLE CONSTRUCTION COST \$4.7M)

1. CONSTRUCT ALTERNATING PASSING LANE FROM CR 1306 TO CR 1280
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES

FOR INFORMATION ONLY  
9/17/2020

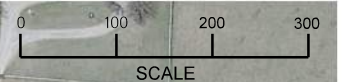


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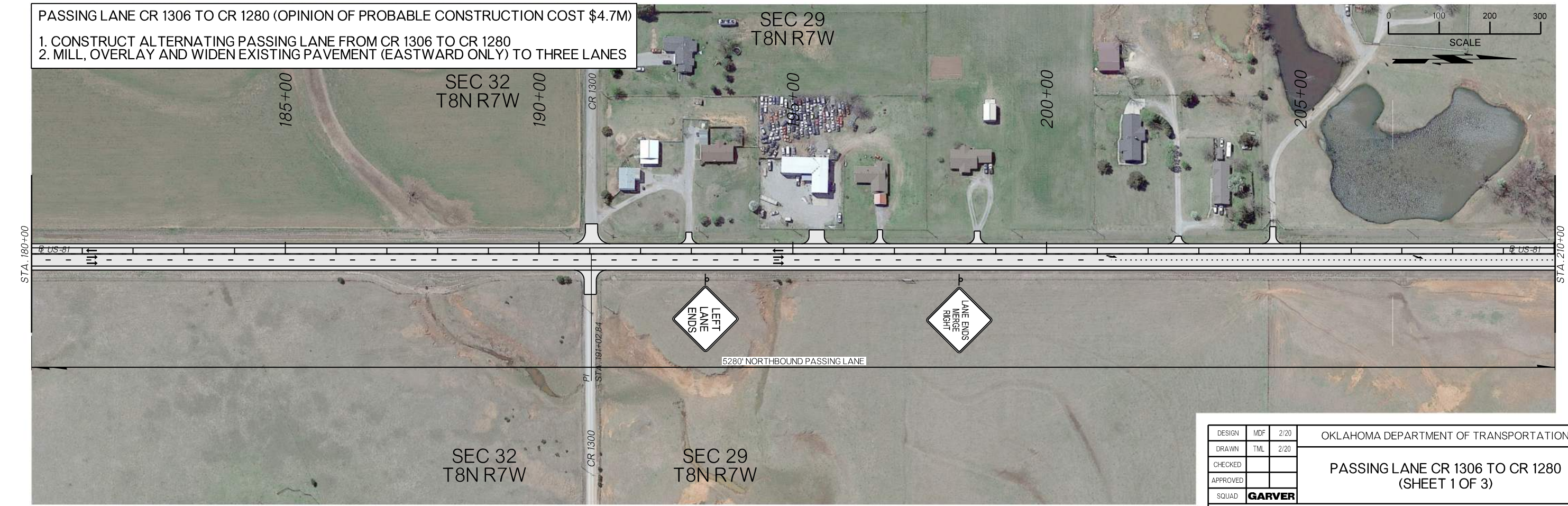


PASSING LANE CR 1306 TO CR 1280 (OPINION OF PROBABLE CONSTRUCTION COST \$4.7M)

1. CONSTRUCT ALTERNATING PASSING LANE FROM CR 1306 TO CR 1280
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES



SCALE

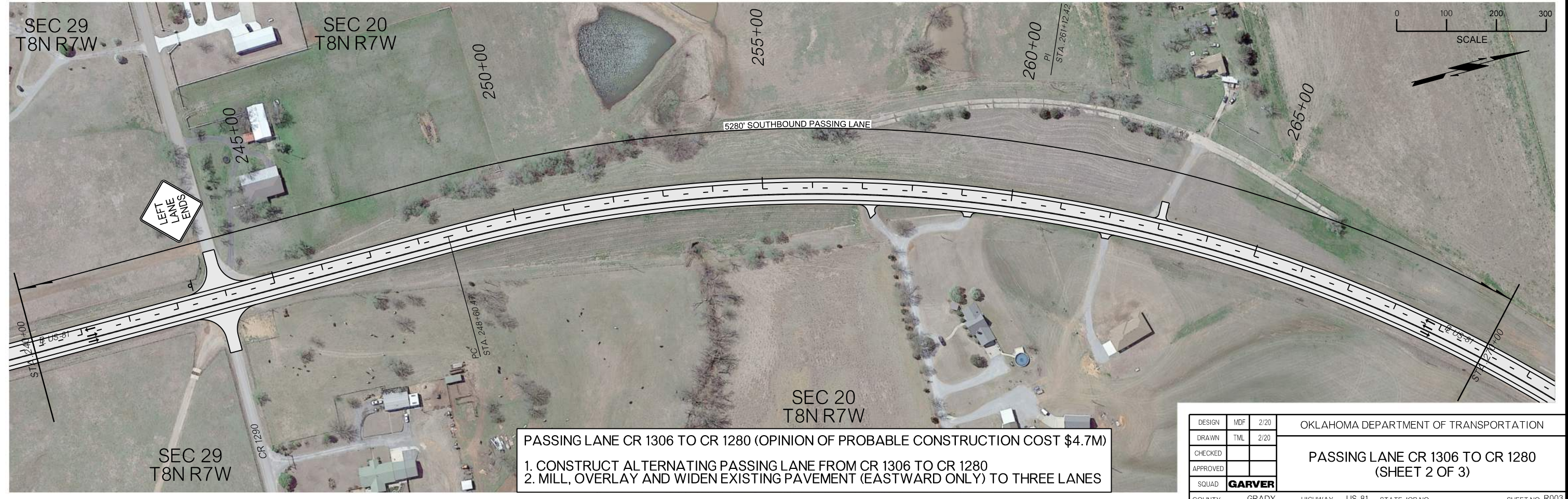
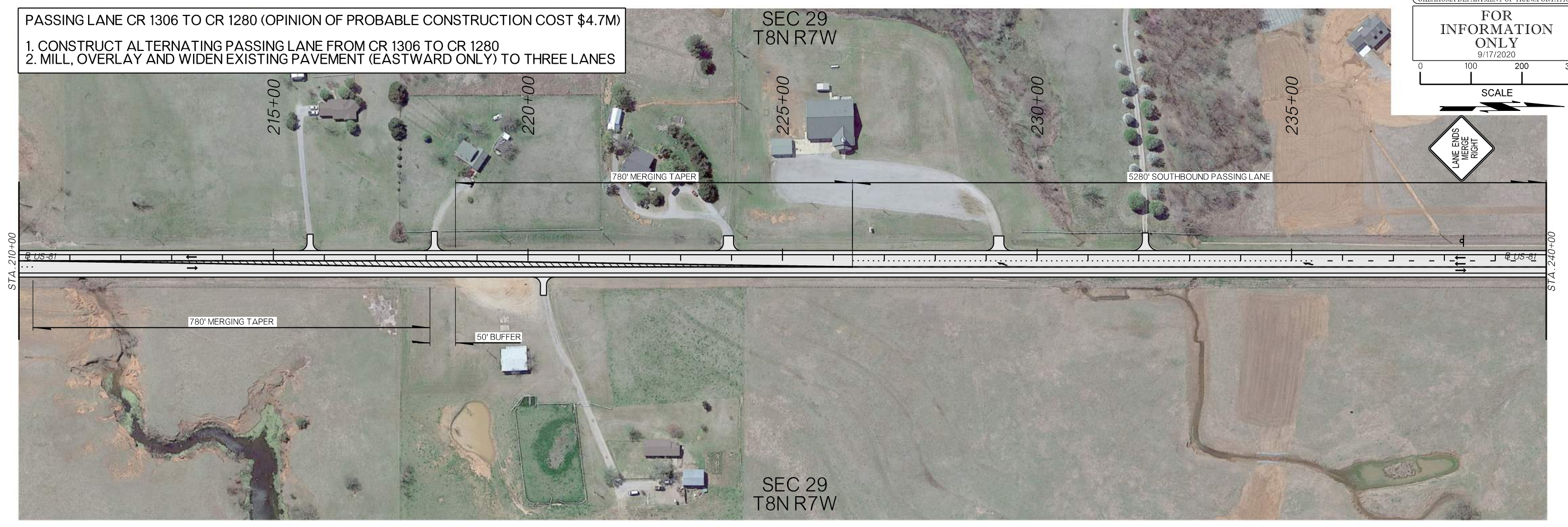


DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY			HIGHWAY US-81
			STATE JOB NO.
			SHEET NO. R002

PASSING LANE CR 1306 TO CR 1280  
(SHEET 1 OF 3)

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PASSING LANE CR 1306 TO CR 1280 (OPINION OF PROBABLE CONSTRUCTION COST \$4.7M)  
 1. CONSTRUCT ALTERNATING PASSING LANE FROM CR 1306 TO CR 1280  
 2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES



PASSING LANE CR 1306 TO CR 1280 (OPINION OF PROBABLE CONSTRUCTION COST \$4.7M)  
 1. CONSTRUCT ALTERNATING PASSING LANE FROM CR 1306 TO CR 1280  
 2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO.			SHEET NO. R003

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PASSING LANE CR 1306 TO CR 1280 (OPINION OF PROBABLE CONSTRUCTION COST \$4.7M)  
 1. CONSTRUCT ALTERNATING PASSING LANE FROM CR 1306 TO CR 1280  
 2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES



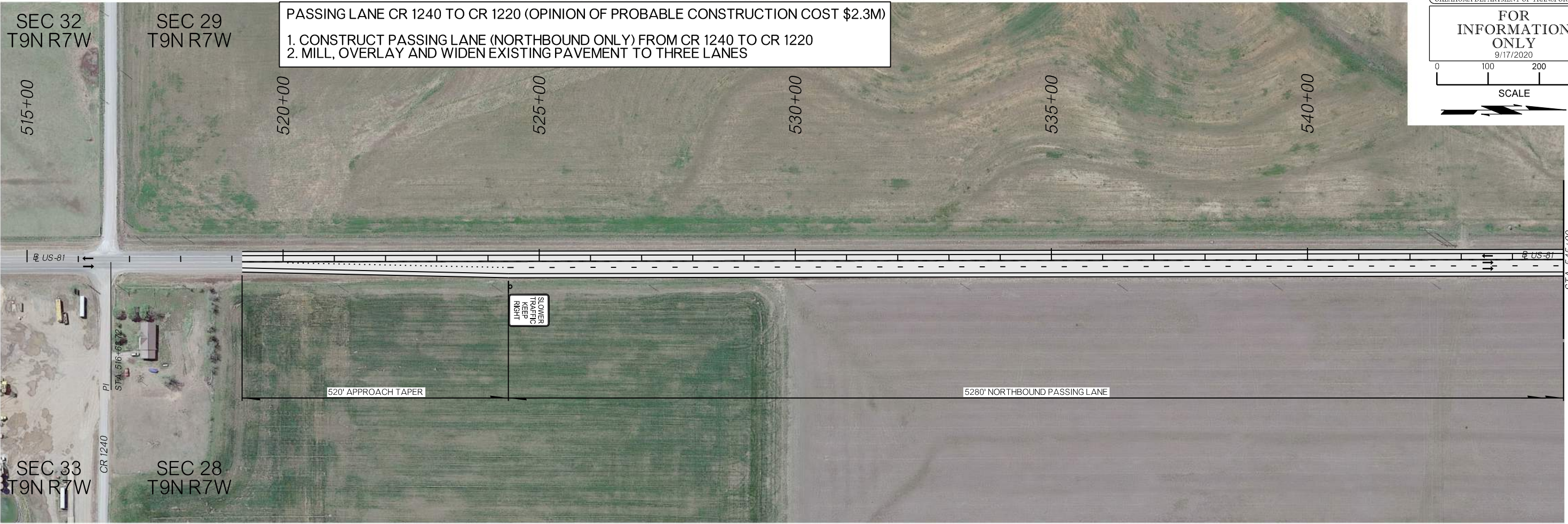
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DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO. SHEET NO. R004			PASSING LANE CR 1306 TO CR 1280 (SHEET 3 OF 3)

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9/17/2020

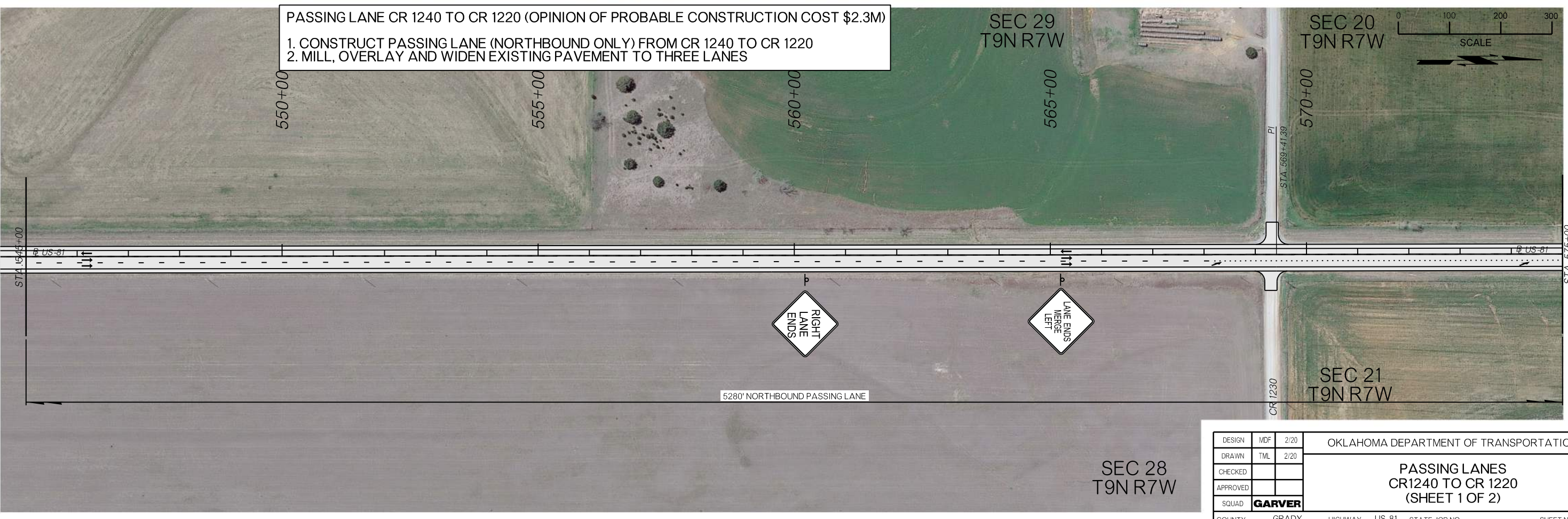


SCALE



PASSING LANE CR 1240 TO CR 1220 (OPINION OF PROBABLE CONSTRUCTION COST \$2.3M)

1. CONSTRUCT PASSING LANE (NORTHBOUND ONLY) FROM CR 1240 TO CR 1220
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO THREE LANES



PASSING LANE CR 1240 TO CR 1220 (OPINION OF PROBABLE CONSTRUCTION COST \$2.3M)

1. CONSTRUCT PASSING LANE (NORTHBOUND ONLY) FROM CR 1240 TO CR 1220
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO THREE LANES



SCALE



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DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO.			SHEET NO. R005

PASSING LANES  
CR1240 TO CR 1220  
(SHEET 1 OF 2)

SEC 28  
T9N R7W

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

9/17/2020

0 100 200 300

SCALE

PASSING LANE CR 1240 TO CR 1220 (OPINION OF PROBABLE CONSTRUCTION COST \$2.3M)

1. CONSTRUCT PASSING LANE (NORTHBOUND ONLY) FROM CR 1240 TO CR 1220
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO THREE LANES



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DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO. SHEET NO. R006			PASSING LANES CR 1240 TO CR 1220 (SHEET 2 OF 2)



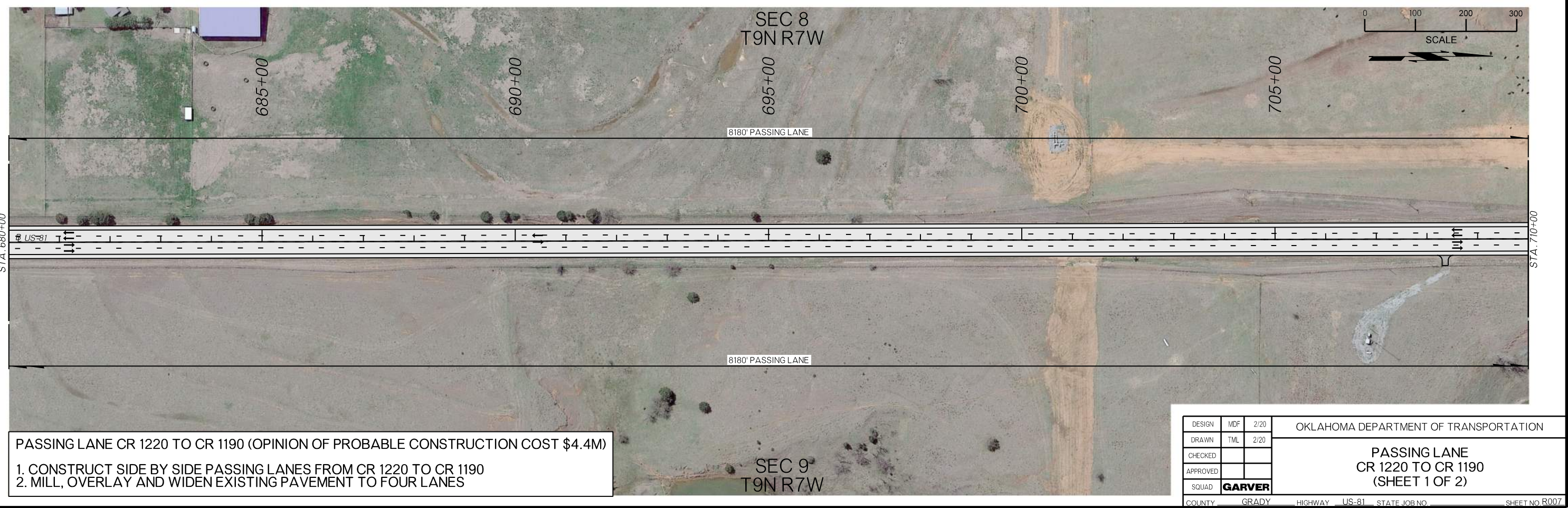
PASSING LANE CR 1220 TO CR 1190 (OPINION OF PROBABLE CONSTRUCTION COST \$4.4M)

1. CONSTRUCT SIDE BY SIDE PASSING LANES FROM CR 1220 TO CR 1190
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO FOUR LANES



OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 FOR INFORMATION ONLY  
 9/17/2020  
 0 100 200 300  
 SCALE

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PASSING LANE CR 1220 TO CR 1190 (OPINION OF PROBABLE CONSTRUCTION COST \$4.4M)

1. CONSTRUCT SIDE BY SIDE PASSING LANES FROM CR 1220 TO CR 1190
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO FOUR LANES

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
 PASSING LANE  
 CR 1220 TO CR 1190  
 (SHEET 1 OF 2)

COUNTY GRADY HIGHWAY US-81 STATE JOB NO. SHEET NO R007

FOR INFORMATION ONLY  
9/17/2020

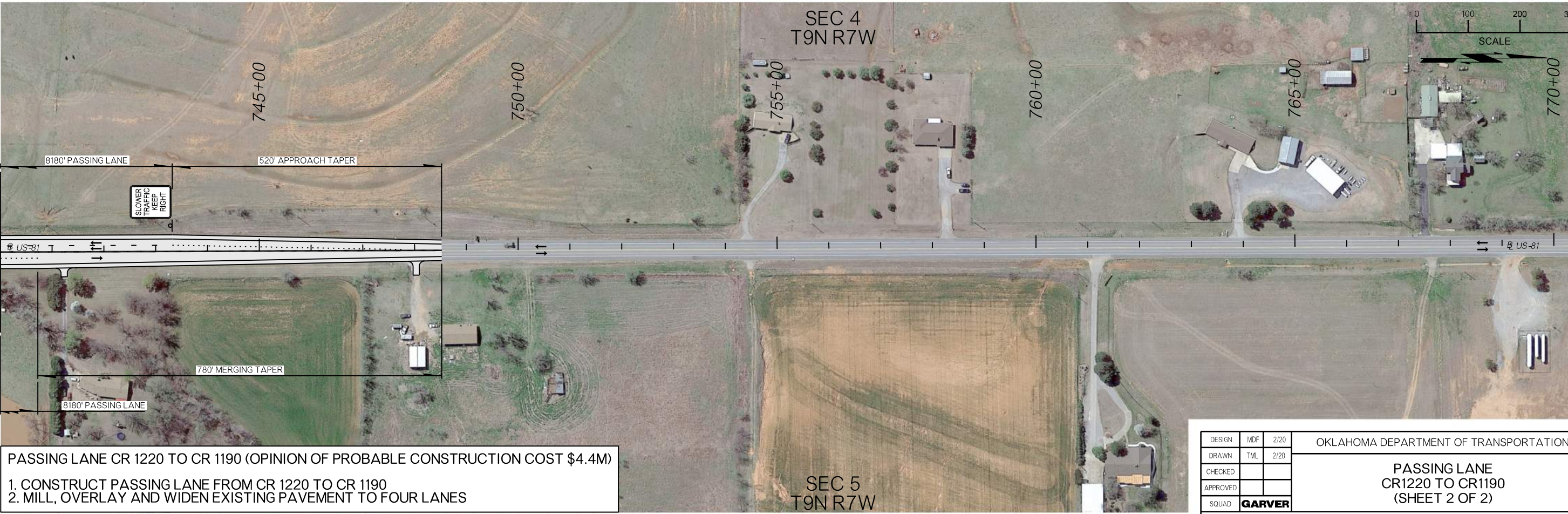
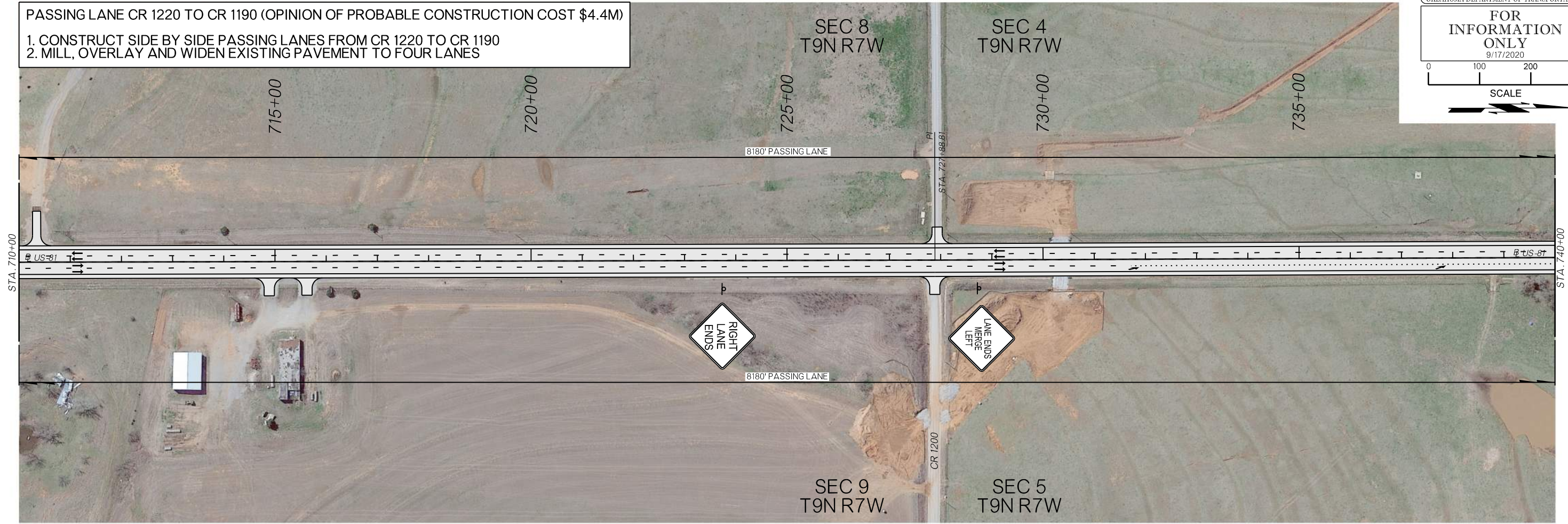


SCALE



PASSING LANE CR 1220 TO CR 1190 (OPINION OF PROBABLE CONSTRUCTION COST \$4.4M)

- 1. CONSTRUCT SIDE BY SIDE PASSING LANES FROM CR 1220 TO CR 1190
- 2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO FOUR LANES



PASSING LANE CR 1220 TO CR 1190 (OPINION OF PROBABLE CONSTRUCTION COST \$4.4M)

- 1. CONSTRUCT PASSING LANE FROM CR 1220 TO CR 1190
- 2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT TO FOUR LANES

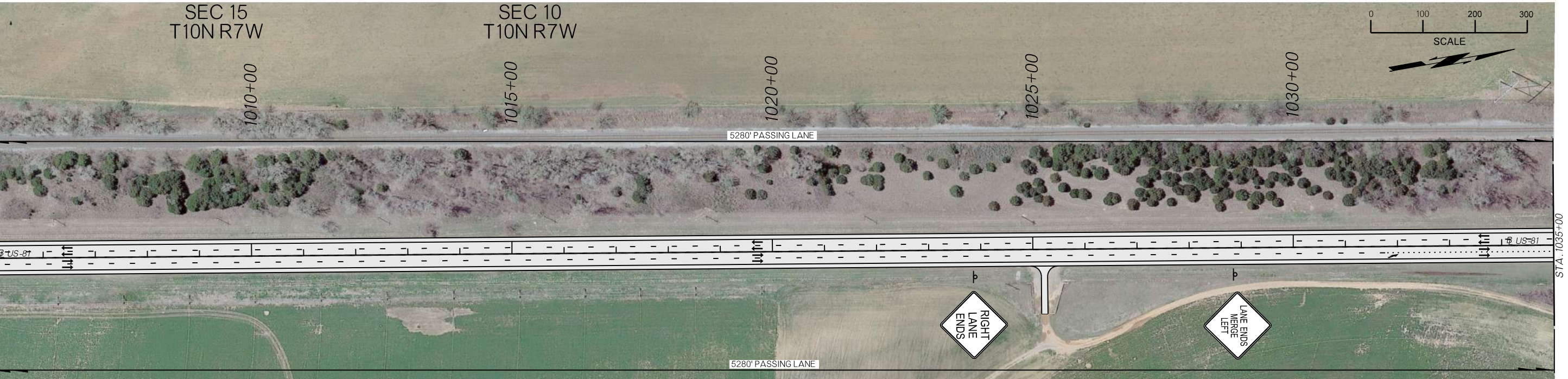
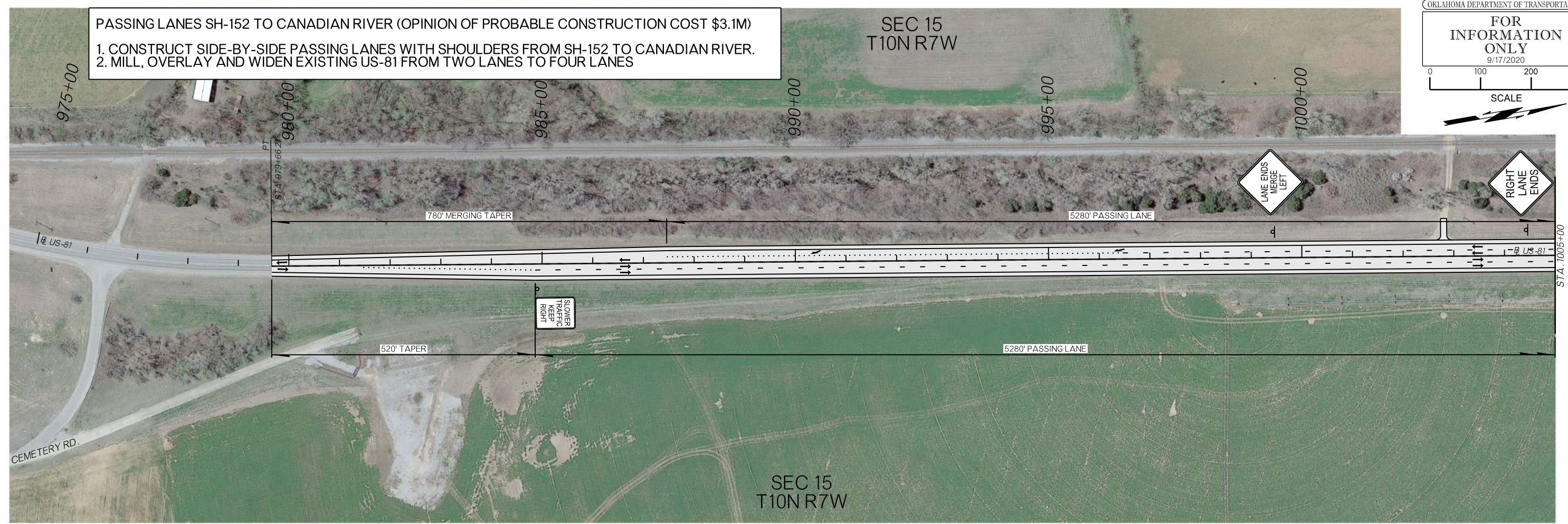
DESIGN	MDF	2/20
DRAWN	TML	2/20
CHECKED		
APPROVED		
SQUAD	<b>GARVER</b>	

OKLAHOMA DEPARTMENT OF TRANSPORTATION

PASSING LANE  
CR1220 TO CR1190  
(SHEET 2 OF 2)

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PASSING LANES SH-152 TO CANADIAN RIVER (OPINION OF PROBABLE CONSTRUCTION COST \$3.1M)  
 1. CONSTRUCT SIDE-BY-SIDE PASSING LANES WITH SHOULDERS FROM SH-152 TO CANADIAN RIVER.  
 2. MILL, OVERLAY AND WIDEN EXISTING US-81 FROM TWO LANES TO FOUR LANES

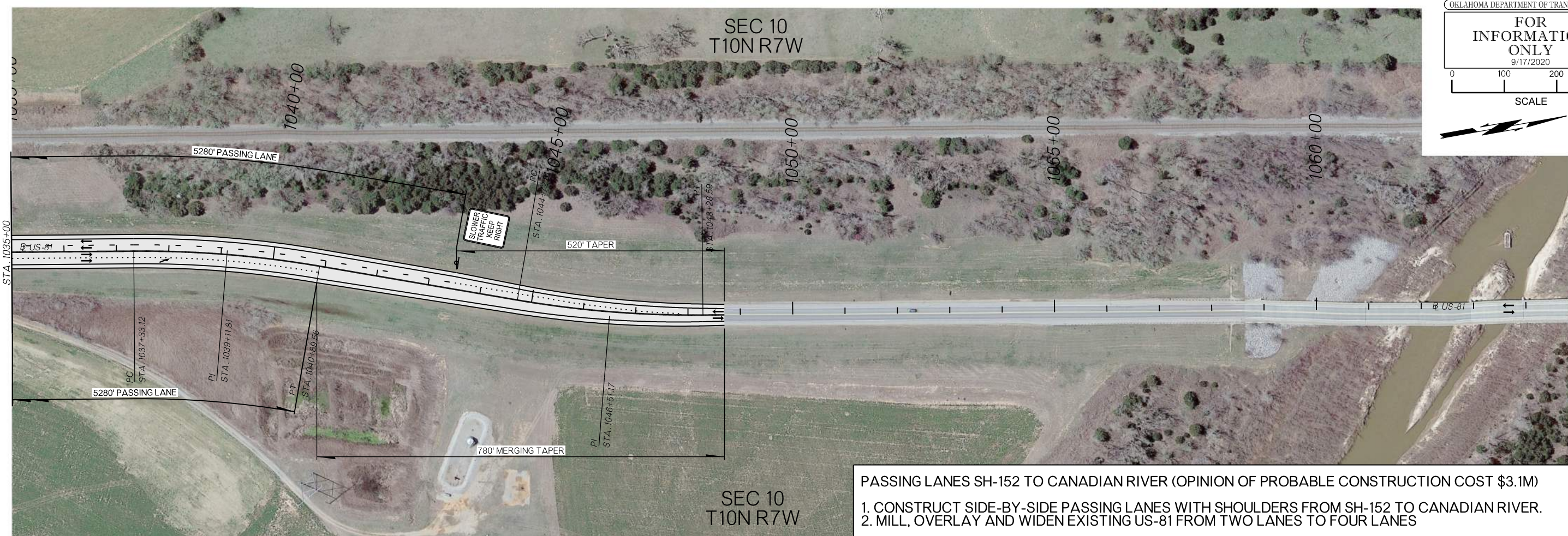


PASSING LANES SH-152 TO CANADIAN RIVER (OPINION OF PROBABLE CONSTRUCTION COST \$3.1M)  
 1. CONSTRUCT SIDE-BY-SIDE PASSING LANES WITH SHOULDERS FROM SH-152 TO CANADIAN RIVER.  
 2. MILL, OVERLAY AND WIDEN EXISTING US-81 FROM TWO LANES TO FOUR LANES

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY			OKLAHOMA DEPARTMENT OF TRANSPORTATION
HIGHWAY US-81			PASSING LANES SH-152 TO CANADIAN RIVER (SHEET 1 OF 2)
STATE JOB NO.			
SHEET NO. R009			

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OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FOR INFORMATION ONLY**  
 9/17/2020  
 0 100 200 300  
 SCALE



PASSING LANES SH-152 TO CANADIAN RIVER (OPINION OF PROBABLE CONSTRUCTION COST \$3.1M)  
 1. CONSTRUCT SIDE-BY-SIDE PASSING LANES WITH SHOULDERS FROM SH-152 TO CANADIAN RIVER.  
 2. MILL, OVERLAY AND WIDEN EXISTING US-81 FROM TWO LANES TO FOUR LANES

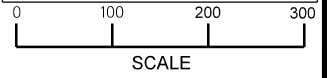
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DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY	GRADY	HIGHWAY	US-81 STATE JOB NO.
			SHEET NO. R010

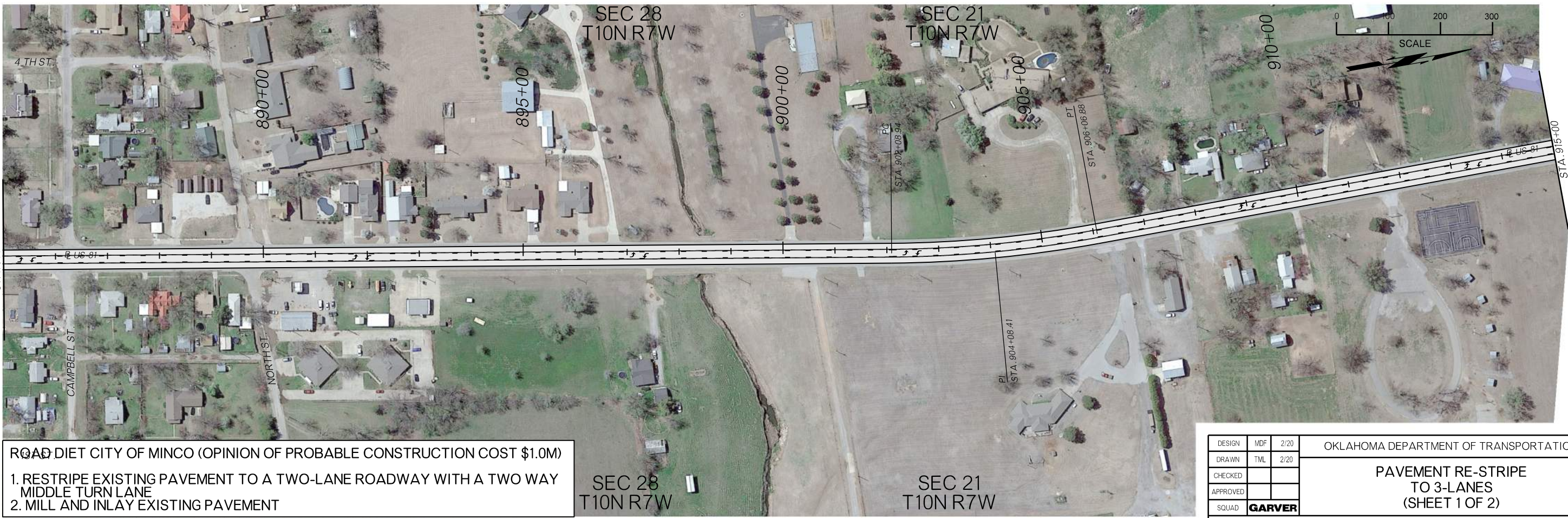
PAVEMENT RE-STRIPE CITY OF MINCO (OPINION OF PROBABLE CONSTRUCTION COST \$1.0M)

1. RESTRIPE EXISTING PAVEMENT TO A TWO-LANE ROADWAY WITH A TWO WAY MIDDLE TURN LANE
2. MILL AND INLAY EXISTING PAVEMENT

FOR INFORMATION ONLY  
9/17/2020



SCALE



ROAD DIET CITY OF MINCO (OPINION OF PROBABLE CONSTRUCTION COST \$1.0M)

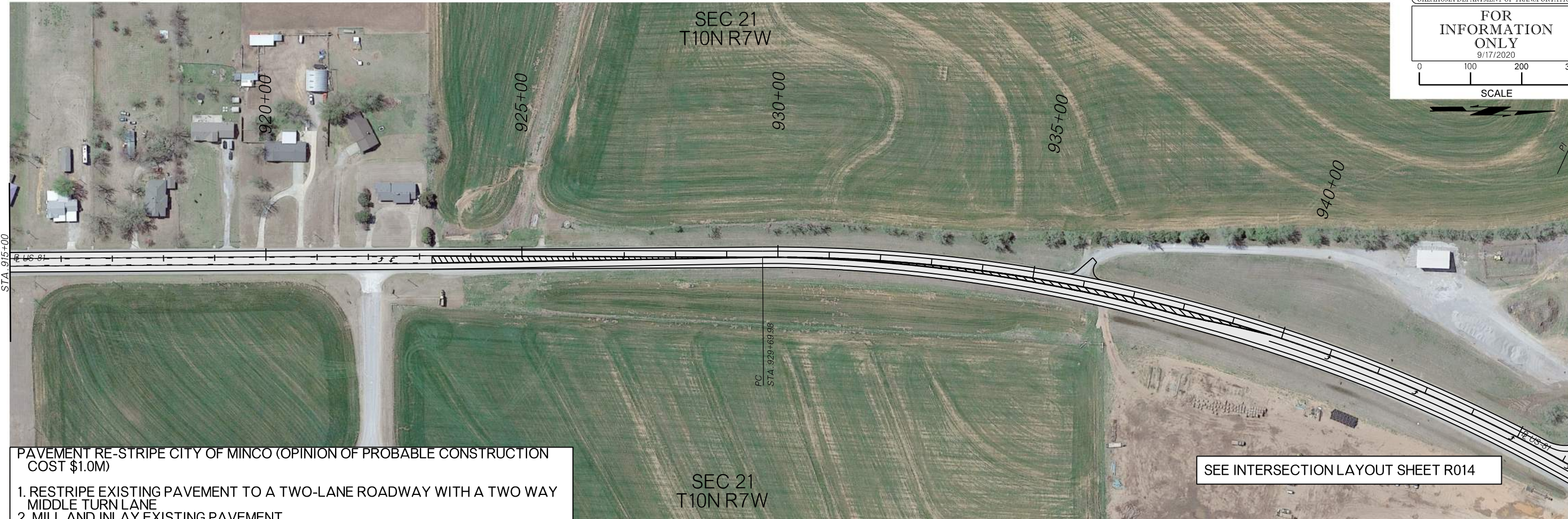
1. RESTRIPE EXISTING PAVEMENT TO A TWO-LANE ROADWAY WITH A TWO WAY MIDDLE TURN LANE
2. MILL AND INLAY EXISTING PAVEMENT

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY	GRADY	HIGHWAY	US-81
		STATE JOB NO.	
		SHEET NO	R011

PAVEMENT RE-STRIPE  
TO 3-LANES  
(SHEET 1 OF 2)



SCALE



PAVEMENT RE-STRIPE CITY OF MINCO (OPINION OF PROBABLE CONSTRUCTION COST \$1.0M)  
1. RESTRIPE EXISTING PAVEMENT TO A TWO-LANE ROADWAY WITH A TWO WAY MIDDLE TURN LANE  
2. MILL AND INLAY EXISTING PAVEMENT

SEE INTERSECTION LAYOUT SHEET R014

L:\2017\7037344 - 000T EC-1964A T05 US-81 Corridor Study Drawings\9502-US-81-PLN.dgn 2:16:21 PM 9/17/2020

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO. SHEET NO. R012			PAVEMENT RE-STRIPE TO 3-LANES (SHEET 2 OF 2)

INTERSECTION IMPROVEMENTS US-81/CR 1280 (OPION OF PROBABLE COST \$1.3M)

1. CONSTRUCT SOUTHBOUND LEFT TURN LANE TO CR 1280
2. MILL, OVERLAY AND WIDEN EXISTING PAVEMENT (EASTWARD ONLY) TO THREE LANES
3. CLEAR TREES WITHIN INTERSECTION SIGHT TRIANGLE

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
**FOR INFORMATION ONLY**  
 9/17/2020  
 0 100 200 300  
 SCALE



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DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN	TML	2/20	
CHECKED			
APPROVED			
SQUAD	<b>GARVER</b>		
COUNTY GRADY HIGHWAY US-81 STATE JOB NO.			SHEET NO. R013

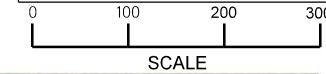
**INTERSECTION US-81 / CR 1280**  
 (SHEET 1 OF 1)

INTERSECTION IMPROVEMENTS US-81 AT SH-152 (OPINION OF PROBABLE CONSTRUCTION COST \$1.3M)

1. INSTALL TRAFFIC SIGNALS
2. RESTRIPE EXISTING FOR DECLERATION LENGTHS
3. MILL, OVERLAY AND WIDEN EXISTING US-81 FOR S.B. RIGHT TURN LANE
4. REMOVE RIGHT TURN ISLAND FROM SH-152

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR  
INFORMATION  
ONLY  
9/17/2020



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2:16:31 PM

9/17/2020

DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION  <b>INTERSECTION US-81/SH-152 (SHEET 1 OF 1)</b>	
DRAWN	TML	2/20		
CHECKED				
APPROVED				
SQUAD	<b>GARVER</b>			
COUNTY	GRADY	HIGHWAY	US-81 STATE JOB NO.	SHEET NO. R014



INTERSECTION IMPROVEMENTS US-81 AT SH-152 (OPINION OF PROBABLE CONSTRUCTION COST \$2.6M)

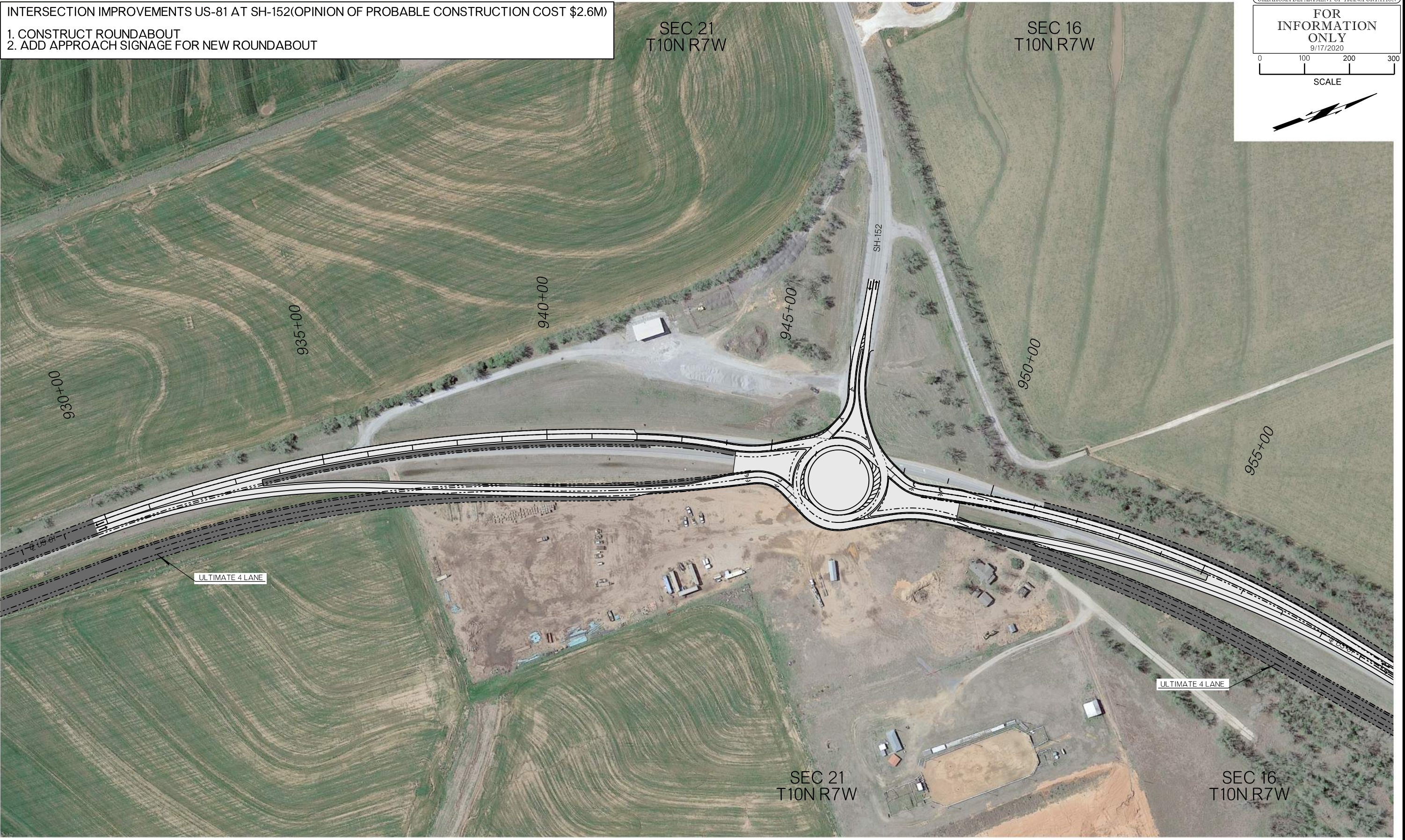
1. CONSTRUCT ROUNDABOUT
2. ADD APPROACH SIGNAGE FOR NEW ROUNDABOUT

SEC 21  
T10N R7W

SEC 16  
T10N R7W

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
FOR INFORMATION ONLY  
9/17/2020

SCALE



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DESIGN	MDF	2/20	OKLAHOMA DEPARTMENT OF TRANSPORTATION  INTERSECTION US-81/SH-152 ROUNDABOUT (SHEET 1 OF 1)				
DRAWN	TML	2/20					
CHECKED							
APPROVED							
SQUAD	<b>GARVER</b>						
COUNTY	GRADY	HIGHWAY	US-81	STATE JOB NO.		SHEET NO.	R015